



ГОСУДАРСТВЕННЫЙ СТАНДАРТ
СОЮЗА ССР

АТМОСФЕРА ЗЕМЛИ ВЕРХНЯЯ

МОДЕЛЬ ХИМИЧЕСКОГО СОСТАВА

ГОСТ 25645.154—90

Издание официальное



КОМИТЕТ СТАНДАРТИЗАЦИИ И МЕТРОЛОГИИ СССР
Москва

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АТМОСФЕРА ЗЕМЛИ ВЕРХНЯЯ

Модель химического состава

ГОСТ

Earth upper atmosphere. Chemical composition model

25645.154—90

ОКСТУ 0080

Дата введения 01.01.92

Настоящий стандарт устанавливает модель химического состава верхней атмосферы Земли на высотах от 80 до 800 км для различных гелио-геофизических условий.

Стандарт предназначен для разработки и обеспечения нормального функционирования космических систем, а также систем наземного базирования, надежная работа которых требует информации о состоянии околоземного космического пространства.

Требования настоящего стандарта являются обязательными.

1. ОСНОВНЫЕ ПОЛОЖЕНИЯ И ФОРМУЛЫ ДЛЯ ОПРЕДЕЛЕНИЯ ХИМИЧЕСКОГО СОСТАВА ВЕРХНЕЙ АТМОСФЕРЫ ЗЕМЛИ

1.1. Модель химического состава верхней атмосферы построена на основе обобщения и анализа мировых субспутниковых данных по масс-спектрометрическим измерениям состава атмосферы Земли с использованием для аппроксимации этих данных на меньшие высоты теоретического моделирования и результатов ракетного зондирования. Теоретическое моделирование атмосферы проводилось методом численного интегрирования системы уравнений квазигидродинамики в приближении Навье — Стокса (уравнение непрерывности, движения и энергии) для многокомпонентной смеси и позволило построить высотные распределения температуры и концентрации основных нейтральных составляющих верхней атмосферы: молекулярного азота, молекулярного и атомарного кислорода для различных гелио-геофизических условий, используя в качестве граничных условий спутниковые данные.

Издание официальное

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Настоящий стандарт не может быть полностью или частично воспроизведен, тиражирован и распространен без разрешения Госстандарта СССР

Метод численного интегрирования основан на замене переменных, приводящей исходную систему уравнений неразрывности многокомпонентной диффузии и теплового баланса к совместной системе уравнений параболического типа соответственно для компонент O , O_2 и N_2 , решаемую конечно-разностным методом с применением потокового варианта метода прогонки, который позволяет получать устойчивое решение.

1.2. Модель химического состава верхней атмосферы представлена в табл. 1—28 в диапазоне высот от 80 до 800 км с шагом 10 км. Приведенные в табл. 1—28 данные соответствуют конкретным значениям индексов солнечной и геомагнитной активности. В качестве индекса солнечной активности используется величина потока радиоизлучения Солнца с длиной волны 10,7 см (F), выраженная в общепринятых условных единицах. Представлены данные для трех уровней солнечной активности: низкого, среднего и высокого ($70 \cdot 10^{-22}$ Вт/м²·Гц; $150 \cdot 10^{-22}$ Вт/м²·Гц; $200 \cdot 10^{-22}$ Вт/м²·Гц).

В табл. 1—28 представлены также данные, соответствующие разным условиям геомагнитной возмущенности, характеризующейся индексом A_p . Спокойные условия соответствуют $A_p = 3$ и сильно-возмущенные условия $A_p = 100$.

1.3. Для разных уровней солнечной и геомагнитной активности представлены широтные и сезонные вариации для местного полудня. Пример суточного хода дан для средней солнечной активности и спокойных геомагнитных условий в табл. 25—28.

Изменение химического состава в зависимости от широты приведено в табл. 1—24 для широт 0 , 40° , 80° , -40° , -80° (знак минус указывает на южную широту).

1.4. Относительное содержание i -ой составляющей определяют по формуле

$$n_i = \frac{n_i}{S}, \quad (1)$$

где n_i — абсолютная концентрация i -ой составляющей;

S — полная концентрация частиц ($S = \sum_{i=1}^{\infty} n_i$).

Абсолютная концентрация i -ой составляющей может быть определена по данным ГОСТ 25645.102 и настоящего стандарта из следующего соотношения

$$n_i = \frac{\rho}{\sum_{i=1}^{\infty} m_i n_i} \quad (2)$$

где ρ — плотность;

m_i — молекулярный (атомный) вес i -го сорта частиц.

2. ТАБЛИЦЫ ПАРАМЕТРОВ ХИМИЧЕСКОГО СОСТАВА ВЕРХНЕЙ АТМОСФЕРЫ ЗЕМЛИ

2.1. В табл. 1—28 приведено выраженное в процентах относительное содержание основных составляющих верхней атмосферы: гелий (He), аргон (Ar), кислород (O и O₂), азот (N₂), водород (H).

2.2. Все данные приведены для одной долготы (LON) 45°.

2.3. Для определения промежуточных значений параметров рекомендуется использовать обычную процедуру осреднения.

2.4. Для каждой таблицы кроме текущего значения индекса *F* приводится осредненное за 90 дней значение (*FΔV*).

2.5. Перевод всемирного времени в звездное проводят по РД 50—25645.325.

2.6. Кроме приведенных выше обозначений в таблицах имеются следующие:

LAT — ширина, град;

z — высота, км;

D — номер дня в году;

LT — местное время, ч;

UT1 — всемирное время, ч.

Таблица 1

Широтные вариации состава при низкой солнечной активности для
зимнего периода в северном и летнего периода в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
<i>D</i> —1; LAT—0; LON 45; LT—12; <i>F</i> —70; <i>FΔV</i> —70; <i>A_p</i> —3; UT1—9						
80	5.52E-04	1.14E-03	2.08E+01	9.09E-01	1.82E-05	7.83E+01
90	6.13E-04	2.87E-01	2.03E+01	8.76E-01	1.23E-04	7.85E+01
100	9.55E-04	3.18E+00	1.83E+01	7.53E-01	2.04E-04	7.77E+01
110	2.51E-03	9.66E+00	1.39E+01	5.03E-01	5.28E-04	7.59E+01
120	6.99E-03	1.75E+01	9.72E+00	3.13E-01	1.21E-03	7.24E+01
130	1.18E-02	2.38E+01	7.39E+00	2.14E-01	1.69E-03	6.86E+01
140	1.80E-02	2.90E+01	6.13E+00	1.53E-01	2.03E-03	6.47E+01
150	2.71E-02	3.38E+01	5.27E+00	1.13E-01	2.34E-03	6.08E+01
160	3.93E-02	3.84E+01	4.59E+00	8.45E-02	2.74E-03	5.69E+01
170	5.51E-02	4.29E+01	4.00E+00	6.41E-02	3.29E-03	5.30E+01
180	7.53E-02	4.74E+01	3.48E+00	4.88E-02	4.07E-03	4.90E+01
190	1.01E-01	5.18E+01	3.01E+00	3.73E-02	5.15E-03	4.51E+01
200	1.33E-01	5.61E+01	2.59E+00	2.84E-02	6.61E-03	4.12E+01
210	1.72E-01	6.02E+01	2.21E+00	2.16E-02	8.57E-03	3.74E+01
220	2.21E-01	6.42E+01	1.88E+00	1.63E-02	1.11E-02	3.37E+01
230	2.81E-01	6.79E+01	1.59E+00	1.23E-02	1.45E-02	3.02E+01
240	3.53E-01	7.14E+01	1.34E+00	9.21E-03	1.87E-02	2.69E+01
250	4.40E-01	7.46E+01	1.12E+00	6.87E-03	2.41E-02	2.38E+01
260	5.45E-01	7.75E+01	9.31E-01	5.19E-03	3.10E-02	2.09E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
270	6.70E-01	8.02E+01	7.71E-01	3.77E-03	3.96E-02	1.83E+01
280	8.18E-01	8.25E+01	6.36E-01	2.78E-03	5.03E-02	1.60E+01
290	9.94E-01	8.45E+01	5.22E-01	2.04E-03	6.37E-02	1.39E+01
300	1.20E+00	8.63E+01	4.27E-01	1.50E-03	8.02E-02	1.20E+01
310	1.46E+00	8.76E+01	3.51E-01	1.10E-03	1.01E-01	1.04E+01
320	1.74E+00	8.89E+01	2.85E-01	8.00E-04	1.26E-01	8.97E+00
330	2.08E+00	8.98E+01	2.31E-01	5.81E-04	1.57E-01	7.68E+00
340	2.47E+00	9.06E+01	1.87E-01	4.21E-04	1.94E-01	6.57E+00
350	2.93E+00	9.11E+01	1.51E-01	3.05E-04	2.40E-01	5.60E+00
360	3.46E+00	9.13E+01	1.22E-01	2.20E-04	2.96E-01	4.77E+00
370	4.08E+00	9.14E+01	9.80E-02	1.59E-04	3.63E-01	4.05E+00
380	4.80E+00	9.12E+01	7.88E-02	1.14E-04	4.44E-01	3.44E+00
390	5.62E+00	9.09E+01	6.32E-02	8.24E-05	5.42E-01	2.91E+00
400	6.56E+00	9.03E+01	5.06E-02	5.92E-05	6.59E-01	2.46E+00
410	7.64E+00	8.94E+01	4.04E-02	4.25E-05	7.99E-01	2.07E+00
420	8.87E+00	8.84E+01	3.22E-02	3.04E-05	9.66E-01	1.74E+00
430	1.03E+01	8.71E+01	2.56E-02	2.17E-05	1.16E+00	1.46E+00
440	1.18E+01	8.55E+01	2.03E-02	1.55E-05	1.39E+00	1.22E+00
450	1.36E+01	8.37E+01	1.61E-02	1.10E-05	1.67E+00	1.02E+00
460	1.55E+01	8.16E+01	1.27E-02	7.82E-06	1.98E+00	8.50E-01
470	1.77E+01	7.93E+01	9.97E-03	5.53E-06	2.36E+00	7.04E-01
480	2.00E+01	7.66E+01	7.80E-03	3.90E-06	2.77E+00	5.81E-01
490	2.25E+01	7.37E+01	6.08E-03	2.73E-06	3.24E+00	4.78E-01
500	2.53E+01	7.05E+01	4.72E-03	1.91E-06	3.78E+00	3.91E-01
510	2.81E+01	6.72E+01	3.65E-03	1.33E-06	4.37E+00	3.18E-01
520	3.11E+01	6.36E+01	2.80E-03	9.21E-07	5.03E+00	2.57E-01
530	3.42E+01	5.98E+01	2.14E-03	6.34E-07	5.75E+00	2.07E-01
540	3.74E+01	5.59E+01	1.63E-03	4.34E-07	6.53E+00	1.66E-01
550	4.05E+01	5.20E+01	1.23E-03	2.96E-07	7.37E+00	1.32E-01
560	4.37E+01	4.80E+01	9.24E-04	2.01E-07	8.25E+00	1.04E-01
570	4.67E+01	4.40E+01	6.90E-04	1.35E-07	9.17E+00	8.21E-02
580	4.97E+01	4.01E+01	5.13E-04	9.07E-08	1.01E+01	6.41E-02
590	5.25E+01	3.63E+01	3.79E-04	6.05E-08	1.11E+01	4.99E-02
600	5.51E+01	3.27E+01	2.78E-04	4.01E-08	1.21E+01	3.86E-02
610	5.75E+01	2.93E+01	2.04E-04	2.65E-08	1.31E+01	2.97E-02
620	5.96E+01	2.62E+01	1.48E-04	1.75E-08	1.42E+01	2.27E-02
630	6.16E+01	2.32E+01	1.07E-04	1.14E-08	1.52E+01	1.73E-02
640	6.33E+01	2.05E+01	7.76E-05	7.47E-09	1.62E+01	1.32E-02
650	6.47E+01	1.80E+01	5.59E-05	4.86E-09	1.72E+01	9.97E-03
660	6.60E+01	1.58E+01	4.01E-05	3.16E-09	1.82E+01	7.52E-03
670	6.70E+01	1.38E+01	2.87E-05	2.05E-09	1.92E+01	5.66E-03
680	6.78E+01	1.21E+01	2.05E-05	1.32E-09	2.02E+01	4.25E-03
690	6.84E+01	1.05E+01	1.46E-05	8.55E-10	2.11E+01	3.18E-03
700	6.88E+01	9.10E+00	1.04E-05	5.51E-10	2.21E+01	2.38E-03

Продолжение табл. 1

z, км	He/S, %	O ₂ /S, %	O/S, %	Ar/S, %	N/S, %	N ₂ /S, %
710	6.91E+01	7.88E+00	7.40E-06	3.55E-10	2.30E+01	1.78E-03
720	6.93E+01	6.81E+00	5.25E-06	2.28E-10	2.39E+01	1.33E-03
730	6.93E+01	5.88E+00	3.73E-06	1.47E-10	2.48E+01	9.89E-04
740	6.92E+01	5.07E+00	2.64E-06	9.45E-11	2.57E+01	7.36E-04
750	6.90E+01	4.37E+00	1.87E-06	6.07E-11	2.66E+01	5.48E-04
760	6.88E+01	3.76E+00	1.33E-06	3.90E-11	2.75E+01	4.08E-04
770	6.84E+01	3.24E+00	9.41E-07	2.51E-11	2.84E+01	3.03E-04
780	6.80E+01	2.78E+00	6.68E-07	1.61E-11	2.92E+01	2.25E-04
790	6.75E+01	2.39E+00	4.72E-07	1.04E-11	3.01E+01	1.68E-04
800	6.70E+01	2.05E+00	3.34E-07	6.68E-12	3.10E+01	1.25E-04

D-1; LAT-40; LON-45; LT-12; F-70; FAV-70; A_p-3; UT1-9

80	5.40E-04	1.25E-03	2.08E+01	8.81E-01	1.82E-05	7.83E+01
90	6.05E-04	3.21E-01	2.03E+01	8.30E-01	1.29E-04	7.85E+01
100	9.56E-04	3.61E+00	1.81E+01	6.84E-01	2.32E-04	7.76E+01
110	2.42E-03	1.06E+01	1.36E+01	4.52E-01	5.76E-04	7.53E+01
120	6.94E-03	1.87E+01	9.35E+00	2.75E-01	1.16E-03	7.16E+01
130	2.12E-02	2.58E+01	6.90E+00	1.74E-01	1.70E-03	6.71E+01
140	4.82E-02	3.20E+01	5.55E+00	1.15E-01	2.17E-03	6.22E+01
150	7.96E-02	3.78E+01	4.65E+00	7.82E-02	2.64E-03	5.74E+01
160	1.19E-01	4.34E+01	3.93E+00	5.49E-02	3.22E-03	5.25E+01
170	1.68E-01	4.88E+01	3.32E+00	3.93E-02	4.00E-03	4.77E+01
180	2.32E-01	5.40E+01	2.80E+00	2.84E-02	5.07E-03	4.30E+01
190	3.12E-01	5.89E+01	2.34E+00	2.06E-02	6.53E-03	3.85E+01
200	4.12E-01	6.35E+01	1.95E+00	1.50E-02	8.49E-03	3.41E+01
210	5.36E-01	6.77E+01	1.61E+00	1.09E-02	1.11E-02	3.01E+01
220	6.87E-01	7.16E+01	1.32E+00	7.88E-03	1.45E-02	2.64E+01
230	8.71E-01	7.51E+01	1.08E+00	5.68E-03	1.89E-02	2.29E+01
240	1.09E+00	7.82E+01	8.81E-01	4.08E-03	2.45E-02	1.98E+01
250	1.36E+00	8.08E+01	7.13E-01	2.92E-03	3.17E-02	1.71E+01
260	1.68E+00	8.31E+01	5.75E-01	2.09E-03	4.07E-02	1.46E+01
270	2.06E+00	8.50E+01	4.61E-01	1.48E-03	5.21E-02	1.25E+01
280	2.52E+00	8.65E+01	3.69E-01	1.05E-03	6.64E-02	1.06E+01
290	3.06E+00	8.76E+01	2.94E-01	7.43E-04	8.42E-02	8.97E+00
300	3.69E+00	8.84E+01	2.34E-01	5.24E-04	1.06E-01	7.56E+00
310	4.44E+00	8.89E+01	1.85E-01	3.69E-04	1.34E-01	6.36E+00
320	5.31E+00	8.90E+01	1.46E-01	2.59E-04	1.67E-01	5.33E+00
330	6.33E+00	8.89E+01	1.15E-01	1.81E-04	2.08E-01	4.46E+00
340	7.52E+00	8.84E+01	9.06E-02	1.27E-04	2.58E-01	3.72E+00
350	8.89E+00	8.76E+01	7.10E-02	8.82E-05	3.19E-01	3.09E+00
360	1.05E+01	8.65E+01	5.55E-02	6.13E-05	3.92E-01	2.56E+00
370	1.23E+01	8.51E+01	4.32E-02	4.25E-05	4.80E-01	2.11E+00
380	1.43E+01	8.33E+01	3.35E-02	2.93E-05	5.85E-01	1.74E+00
390	1.66E+01	8.13E+01	2.59E-02	2.02E-05	7.09E-01	1.42E+00
400	1.91E+01	7.88E+01	2.00E-02	1.38E-05	8.54E-01	1.16E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar S, %	H ₂ S, %	N ₂ S, %
410	2.20E+01	7.61E+01	1.53E-02	9.46E-06	1.02E+00	9.43E-01
420	2.50E+01	7.30E+01	1.17E-02	6.43E-06	1.22E+00	7.61E-01
430	2.83E+01	6.96E+01	8.84E-03	4.35E-06	1.44E+00	6.11E-01
440	3.19E+01	6.59E+01	6.66E-03	2.92E-06	1.69E+00	4.88E-01
450	3.56E+01	6.20E+01	4.99E-03	1.95E-06	1.97E+00	3.87E-01
460	3.94E+01	5.80E+01	3.72E-03	1.30E-06	2.28E+00	3.05E-01
470	4.34E+01	5.38E+01	2.75E-03	8.57E-07	2.61E+00	2.39E-01
480	4.73E+01	4.95E+01	2.02E-03	5.63E-07	2.97E+00	1.86E-01
490	5.12E+01	4.53E+01	1.47E-03	3.67E-07	3.36E+00	1.43E-01
500	5.50E+01	4.11E+01	1.07E-03	2.38E-07	3.76E+00	1.10E-01
510	5.87E+01	3.71E+01	7.71E-04	1.53E-07	4.18E+00	8.38E-02
520	6.21E+01	3.32E+01	5.52E-04	9.82E-08	4.62E+00	6.34E-02
530	6.53E+01	2.95E+01	3.93E-04	6.26E-08	5.07E+00	4.78E-02
540	6.83E+01	2.61E+01	2.79E-04	3.97E-08	5.52E+00	3.58E-02
550	7.10E+01	2.30E+01	1.97E-04	2.51E-08	5.98E+00	2.67E-02
560	7.34E+01	2.02E+01	1.38E-04	1.58E-08	6.44E+00	1.98E-02
570	7.55E+01	1.76E+01	9.67E-05	9.89E-09	6.91E+00	1.47E-02
580	7.73E+01	1.53E+01	6.75E-05	6.19E-09	7.37E+00	1.08E-02
590	7.89E+01	1.32E+01	4.70E-05	3.86E-09	7.84E+00	7.94E-03
600	8.03E+01	1.14E+01	3.26E-05	2.40E-09	8.31E+00	5.82E-03
610	8.14E+01	9.85E+00	2.26E-05	1.49E-09	8.77E+00	4.26E-03
620	8.23E+01	8.46E+00	1.56E-05	9.27E-10	9.24E+00	3.11E-03
630	8.30E+01	7.26E+00	1.08E-05	5.75E-10	9.71E+00	2.27E-03
640	8.36E+01	6.22E+00	7.46E-06	3.56E-10	1.02E+01	1.65E-03
650	8.40E+01	5.32E+00	5.15E-06	2.21E-10	1.07E+01	1.20E-03
660	8.43E+01	4.54E+00	3.55E-06	1.37E-10	1.11E+01	8.76E-04
670	8.45E+01	3.88E+00	2.45E-06	8.47E-11	1.16E+01	6.37E-04
680	8.46E+01	3.31E+00	1.69E-06	5.25E-11	1.21E+01	4.63E-04
690	8.46E+01	2.82E+00	1.16E-06	3.25E-11	1.26E+01	3.37E-04
700	8.45E+01	2.40E+00	8.01E-07	2.02E-11	1.31E+01	2.45E-04
710	8.44E+01	2.05E+00	5.52E-07	1.25E-11	1.36E+01	1.78E-04
720	8.42E+01	1.74E+00	3.81E-07	7.77E-12	1.41E+01	1.29E-04
730	8.39E+01	1.49E+00	2.63E-07	4.82E-12	1.46E+01	9.41E-05
740	8.36E+01	1.26E+00	1.81E-07	3.00E-12	1.52E+01	6.84E-05
750	8.32E+01	1.08E+00	1.25E-07	1.87E-12	1.57E+01	4.98E-05
760	8.28E+01	9.16E-01	8.66E-08	1.16E-12	1.62E+01	3.63E-05
770	8.24E+01	7.80E-01	5.99E-08	7.24E-13	1.68E+01	2.64E-05
780	8.20E+01	6.64E-01	4.15E-08	4.52E-13	1.74E+01	1.92E-05
790	8.15E+01	5.65E-01	2.87E-08	2.82E-13	1.79E+01	1.40E-05
800	8.10E+01	4.81E-01	1.99E-08	1.76E-13	1.85E+01	1.02E-05

Продолжение табл. 1

z, км	He/S, %	O/S, %	O ₂ /S, %	F/S, %	H/S, %	N ₂ /S, %
D-1; LAT-80; LON-85; LT-12; F-70; FAV-70; A _p -3; UT1-9						
80	5.35E-04	1.31E-03	2.08E+01	9.06E-01	1.77E-05	7.82E+01
90	5.91E-04	3.35E-01	2.04E+01	8.69E-01	1.23E-04	7.84E+01
100	9.53E-04	3.81E+00	1.84E+01	7.26E-01	2.36E-04	7.71E+01
110	2.35E-03	1.09E+01	1.44E+01	5.05E-01	5.50E-04	7.41E+01
120	7.36E-03	1.89E+01	1.05E+01	3.28E-01	1.02E-03	7.02E+01
130	3.73E-02	2.60E+01	8.06E+00	2.18E-01	1.46E-03	6.57E+01
140	1.18E-01	3.23E+01	6.58E+00	1.50E-01	1.82E-03	6.09E+01
150	2.08E-01	3.83E+01	5.50E+00	1.04E-01	2.19E-03	5.59E+01
160	3.12E-01	4.43E+01	4.61E+00	7.36E-02	2.67E-03	5.07E+01
170	4.47E-01	5.01E+01	3.84E+00	5.21E-02	3.34E-03	4.56E+01
180	6.23E-01	5.57E+01	3.17E+00	3.69E-02	4.29E-03	4.05E+01
190	8.48E-01	6.10E+01	2.59E+00	2.59E-02	5.60E-03	3.55E+01
200	1.14E+00	6.59E+01	2.09E+00	1.81E-02	7.40E-03	3.09E+01
210	1.50E+00	7.03E+01	1.68E+00	1.26E-02	9.84E-03	2.65E+01
220	1.94E+00	7.41E+01	1.33E+00	8.67E-03	1.31E-02	2.26E+01
230	2.50E+00	7.74E+01	1.05E+00	5.93E-03	1.74E-02	1.91E+01
240	3.18E+00	8.00E+01	8.18E-01	4.03E-03	2.31E-02	1.60E+01
250	4.01E+00	8.21E+01	6.34E-01	2.72E-03	3.04E-02	1.33E+01
260	5.01E+00	8.35E+01	4.89E-01	1.83E-03	3.98E-02	1.10E+01
270	6.22E+00	8.44E+01	3.74E-01	1.22E-03	5.17E-02	8.99E+00
280	7.66E+00	8.47E+01	2.85E-01	8.09E-04	6.69E-02	7.34E+00
290	9.36E+00	8.44E+01	2.16E-01	5.35E-04	8.60E-02	5.95E+00
300	1.14E+01	8.36E+01	1.63E-01	3.52E-04	1.10E-01	4.80E+00
310	1.37E+01	8.22E+01	1.22E-01	2.29E-04	1.39E-01	3.84E+00
320	1.63E+01	8.03E+01	9.06E-02	1.49E-04	1.75E-01	3.06E+00
330	1.94E+01	7.79E+01	6.70E-02	9.64E-05	2.18E-01	2.42E+00
340	2.29E+01	7.49E+01	4.92E-02	6.19E-05	2.70E-01	1.90E+00
350	2.67E+01	7.15E+01	3.59E-02	3.95E-05	3.31E-01	1.48E+00
360	3.08E+01	6.76E+01	2.60E-02	2.50E-05	4.03E-01	1.15E+00
370	3.53E+01	6.33E+01	1.86E-02	1.57E-05	4.84E-01	8.81E-01
380	4.00E+01	5.88E+01	1.33E-02	9.76E-06	5.77E-01	6.69E-01
390	4.48E+01	5.40E+01	9.34E-03	6.02E-06	6.80E-01	5.04E-01
400	4.97E+01	4.91E+01	6.52E-03	3.68E-06	7.92E-01	3.76E-01
410	5.46E+01	4.42E+01	4.51E-03	2.23E-06	9.14E-01	2.78E-01
420	5.93E+01	3.95E+01	3.09E-03	1.34E-06	1.04E+00	2.03E-01
430	6.38E+01	3.49E+01	2.10E-03	8.01E-07	1.18E+00	1.48E-01
440	6.80E+01	3.06E+01	1.42E-03	4.74E-07	1.32E+00	1.06E-01
450	7.19E+01	2.66E+01	9.51E-04	2.79E-07	1.47E+00	7.61E-02
460	7.54E+01	2.29E+01	6.33E-04	1.63E-07	1.61E+00	5.40E-02
470	7.85E+01	1.97E+01	4.19E-04	9.47E-08	1.76E+00	3.81E-02
480	8.13E+01	1.68E+01	2.76E-04	5.48E-08	1.92E+00	2.68E-02
490	8.37E+01	1.42E+01	1.81E-04	3.16E-08	2.07E+00	1.87E-02
500	8.57E+01	1.20E+01	1.18E-04	1.82E-08	2.23E+00	1.31E-02

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	8.75E+01	1.01E+01	7.70E-05	1.04E-08	2.38E+00	9.08E-03
520	8.90E+01	8.50E+00	5.01E-05	5.96E-09	2.54E+00	6.29E-03
530	9.02E+01	7.12E+00	3.25E-05	3.41E-09	2.70E+00	4.35E-03
540	9.12E+01	5.95E+00	2.11E-05	1.95E-09	2.87E+00	3.01E-03
550	9.20E+01	4.96E+00	1.37E-05	1.11E-09	3.03E+00	2.08E-03
560	9.27E+01	4.14E+00	8.84E-06	6.34E-10	3.20E+00	1.43E-03
570	9.32E+01	3.44E+00	5.72E-06	3.62E-10	3.38E+00	9.87E-04
580	9.36E+01	2.87E+00	3.71E-06	2.07E-10	3.55E+00	6.80E-04
590	9.39E+01	2.38E+00	2.40E-06	1.18E-10	3.74E+00	4.69E-04
600	9.41E+01	1.98E+00	1.55E-06	6.75E-11	3.93E+00	3.23E-04
610	9.42E+01	1.65E+00	1.01E-06	3.86E-11	4.12E+00	2.23E-04
620	9.43E+01	1.37E+00	6.53E-07	2.21E-11	4.32E+00	1.54E-04
630	9.43E+01	1.14E+00	4.23E-07	1.27E-11	4.53E+00	1.06E-04
640	9.43E+01	9.44E-01	2.75E-07	7.27E-12	4.74E+00	7.32E-05
650	9.43E+01	7.84E-01	1.79E-07	4.18E-12	4.96E+00	5.06E-05
660	9.42E+01	6.52E-01	1.16E-07	2.40E-12	5.19E+00	3.50E-05
670	9.40E+01	5.42E-01	7.56E-08	1.38E-12	5.42E+00	2.42E-05
680	9.39E+01	4.51E-01	4.92E-08	7.98E-13	5.67E+00	1.68E-05
690	9.37E+01	3.75E-01	3.21E-08	4.61E-13	5.92E+00	1.16E-05
700	9.35E+01	3.12E-01	2.10E-08	2.67E-13	6.18E+00	8.06E-06
710	9.33E+01	2.59E-01	1.37E-08	1.54E-13	6.46E+00	5.59E-06
720	9.30E+01	2.16E-01	8.96E-09	8.95E-14	6.74E+00	3.89E-06
730	9.28E+01	1.80E-01	5.87E-09	5.19E-14	7.03E+00	2.70E-06
740	9.25E+01	1.50E-01	3.84E-09	3.02E-14	7.33E+00	1.88E-06
750	9.22E+01	1.25E-01	2.52E-09	1.76E-14	7.64E+00	1.31E-06
760	9.19E+01	1.04E-01	1.66E-09	1.02E-14	7.97E+00	9.12E-07
770	9.16E+01	8.67E-02	1.09E-09	5.98E-15	8.30E+00	6.36E-07
780	9.13E+01	7.23E-02	7.16E-10	3.49E-15	8.65E+00	4.44E-07
790	9.09E+01	6.04E-02	4.72E-10	2.04E-15	9.00E+00	3.10E-07
800	9.06E+01	5.04E-02	3.11E-10	1.20E-15	9.37E+00	2.17E-07
D — 1; LAT — 40; LON — 45; LT — 12; F — 70; FAV — 70; A _g — 3; UTI — 9						
80	5.42E-04	1.05E-03	2.08E+01	9.39E-01	1.66E-05	7.82E+01
90	6.07E-04	2.63E-01	2.04E+01	9.22E-01	1.13E-04	7.84E+01
100	9.53E-04	2.89E+00	1.85E+01	8.15E-01	1.91E-04	7.78E+01
110	2.39E-03	8.51E+00	1.44E+01	5.86E-01	4.60E-04	7.65E+01
120	5.52E-03	1.53E+01	1.04E+01	3.91E-01	9.60E-04	7.39E+01
130	6.46E-03	2.08E+01	8.10E+00	2.83E-01	1.35E-03	7.08E+01
140	7.58E-03	2.53E+01	6.84E+00	2.15E-01	1.59E-03	6.77E+01
150	1.09E-02	2.93E+01	6.00E+00	1.68E-01	1.79E-03	6.45E+01
160	1.57E-02	3.31E+01	5.33E+00	1.33E-01	2.03E-03	6.14E+01
170	2.20E-02	3.69E+01	4.75E+00	1.05E-01	2.39E-03	5.82E+01
180	3.00E-02	4.07E+01	4.23E+00	8.37E-02	2.90E-03	5.50E+01
190	4.00E-02	4.44E+01	3.76E+00	6.65E-02	3.61E-03	5.17E+01
200	5.25E-02	4.82E+01	3.33E+00	5.28E-02	4.58E-03	4.84E+01

Продолжение табл. 1

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	6.80E-02	5.20E+01	2.94E+00	4.18E-02	5.87E-03	4.50E+01
220	8.69E-02	5.57E+01	2.58E+00	3.30E-02	7.55E-03	4.16E+01
230	1.10E-01	5.93E+01	2.25E+00	2.59E-02	9.72E-03	3.83E+01
240	1.38E-01	6.28E+01	1.95E+00	2.03E-02	1.25E-02	3.50E+01
250	1.72E-01	6.62E+01	1.69E+00	1.58E-02	1.60E-02	3.19E+01
260	2.12E-01	6.94E+01	1.45E+00	1.23E-02	2.04E-02	2.89E+01
270	2.59E-01	7.25E+01	1.24E+00	9.48E-03	2.58E-02	2.60E+01
280	3.16E-01	7.53E+01	1.06E+00	7.29E-03	3.26E-02	2.33E+01
290	3.82E-01	7.79E+01	8.97E-01	5.59E-03	4.09E-02	2.08E+01
300	4.60E-01	8.02E+01	7.58E-01	4.27E-03	5.10E-02	1.85E+01
310	5.57E-01	8.22E+01	6.46E-01	3.29E-03	6.42E-02	1.66E+01
320	6.63E-01	8.41E+01	5.42E-01	2.50E-03	7.93E-02	1.46E+01
330	7.86E-01	8.58E+01	4.53E-01	1.89E-03	9.75E-02	1.28E+01
340	9.29E-01	8.73E+01	3.78E-01	1.43E-03	1.20E-01	1.12E+01
350	1.09E+00	8.86E+01	3.14E-01	1.07E-03	1.46E-01	9.83E+00
360	1.28E+00	8.97E+01	2.61E-01	8.08E-04	1.78E-01	8.58E+00
370	1.50E+00	9.06E+01	2.16E-01	6.08E-04	2.16E-01	7.47E+00
380	1.76E+00	9.13E+01	1.79E-01	4.56E-04	2.62E-01	6.50E+00
390	2.05E+00	9.18E+01	1.48E-01	3.42E-04	3.17E-01	5.65E+00
400	2.38E+00	9.22E+01	1.22E-01	2.56E-04	3.82E-01	4.90E+00
410	2.76E+00	9.24E+01	1.01E-01	1.92E-04	4.59E-01	4.24E+00
420	3.19E+00	9.25E+01	8.32E-02	1.43E-04	5.52E-01	3.67E+00
430	3.69E+00	9.24E+01	6.85E-02	1.07E-04	6.61E-01	3.17E+00
440	4.25E+00	9.22E+01	5.64E-02	8.00E-05	7.90E-01	2.74E+00
450	4.89E+00	9.18E+01	4.63E-02	5.97E-05	9.41E-01	2.36E+00
460	5.61E+00	9.12E+01	3.80E-02	4.45E-05	1.12E+00	2.03E+00
470	6.42E+00	9.05E+01	3.11E-02	3.31E-05	1.33E+00	1.74E+00
480	7.34E+00	8.96E+01	2.55E-02	2.46E-05	1.57E+00	1.50E+00
490	8.36E+00	8.85E+01	2.08E-02	1.83E-05	1.86E+00	1.28E+00
500	9.50E+00	8.72E+01	1.70E-02	1.36E-05	2.19E+00	1.10E+00
510	1.08E+01	8.57E+01	1.38E-02	1.01E-05	2.57E+00	9.45E-01
520	1.21E+01	8.40E+01	1.12E-02	7.43E-06	3.00E+00	7.96E-01
530	1.37E+01	8.21E+01	9.07E-03	5.48E-06	3.50E+00	6.76E-01
540	1.53E+01	8.00E+01	7.33E-03	4.03E-06	4.06E+00	5.72E-01
550	1.71E+01	7.77E+01	5.90E-03	2.96E-06	4.70E+00	4.83E-01
560	1.90E+01	7.51E+01	4.74E-03	2.16E-06	5.41E+00	4.06E-01
570	2.11E+01	7.24E+01	3.79E-03	1.58E-06	6.21E+00	3.40E-01
580	2.32E+01	6.94E+01	3.02E-03	1.14E-06	7.08E+00	2.84E-01
590	2.55E+01	6.63E+01	2.40E-03	8.28E-07	8.04E+00	2.36E-01
600	2.78E+01	6.29E+01	1.89E-03	5.97E-07	9.08E+00	1.95E-01
610	3.01E+01	5.95E+01	1.49E-03	4.28E-07	1.02E+01	1.61E-01
620	3.25E+01	5.60E+01	1.17E-03	3.06E-07	1.14E+01	1.32E-01
630	3.49E+01	5.24E+01	9.10E-04	2.18E-07	1.26E+01	1.08E-01
640	3.72E+01	4.87E+01	7.06E-04	1.54E-07	1.39E+01	8.73E-02
650	3.95E+01	4.51E+01	5.45E-04	1.09E-07	1.53E+01	7.08E-02
660	4.17E+01	4.16E+01	4.19E-04	7.64E-08	1.67E+01	5.68E-02

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
670	4.37E+01	3.81E+01	3.20E-04	5.34E-08	1.81E+01	4.54E-02
680	4.56E+01	3.47E+01	2.44E-04	3.72E-08	1.96E+01	3.62E-02
690	4.74E+01	3.15E+01	1.85E-04	2.58E-08	2.10E+01	2.87E-02
700	4.90E+01	2.85E+01	1.40E-04	1.78E-08	2.25E+01	2.27E-02
710	5.04E+01	2.57E+01	1.05E-04	1.23E-08	2.39E+01	1.79E-02
720	5.16E+01	2.30E+01	7.91E-05	8.42E-09	2.53E+01	1.40E-02
730	5.27E+01	2.05E+01	5.92E-05	5.77E-09	2.67E+01	1.10E-02
740	5.36E+01	1.83E+01	4.41E-05	3.94E-09	2.81E+01	8.55E-03
750	5.43E+01	1.62E+01	3.28E-05	2.68E-09	2.94E+01	6.65E-03
760	5.49E+01	1.44E+01	2.44E-05	1.82E-09	3.07E+01	5.16E-03
770	5.53E+01	1.27E+01	1.81E-05	1.24E-09	3.20E+01	3.99E-03
780	5.56E+01	1.12E+01	1.34E-05	8.39E-10	3.32E+01	3.09E-03
790	5.57E+01	9.85E+00	9.88E-06	5.68E-10	3.44E+01	2.38E-03
810	5.57E+01	8.65E+00	7.29E-06	3.85E-10	3.56E+01	1.84E-03

D-1; LAT-80, LON-45, LT-12; F-70; VAV-70; A₂-3; UT1-9

80	5.40E-04	9.00E-04	2.08E+01	9.69E-01	1.63E-05	7.82E+01
90	6.00E-04	2.20E-01	2.05E+01	9.71E-01	1.09E-04	7.83E+01
100	9.50E-04	2.38E+00	1.89E+01	8.84E-01	1.88E-04	7.79E+01
110	2.26E-03	6.78E+00	1.56E+01	6.81E-01	4.30E-04	7.70E+01
120	4.30E-03	1.18E+01	1.21E+01	4.96E-01	8.42E-04	7.56E+01
130	3.23E-03	1.59E+01	9.97E+00	3.89E-01	1.18E-03	7.37E+01
140	2.84E-03	1.91E+01	8.74E+00	3.19E-01	1.38E-03	7.19E+01
150	3.89E-03	2.19E+01	7.89E+00	2.66E-01	1.54E-03	7.00E+01
160	5.60E-03	2.45E+01	7.21E+00	2.22E-01	1.74E-03	6.81E+01
170	7.86E-03	2.71E+01	6.61E+00	1.86E-01	2.04E-03	6.61E+01
180	1.07E-02	2.96E+01	6.07E+00	1.55E-01	2.46E-03	6.41E+01
190	1.43E-02	3.23E+01	5.58E+00	1.30E-01	3.05E-03	6.20E+01
200	1.89E-02	3.50E+01	5.11E+00	1.08E-01	3.85E-03	5.97E+01
210	2.44E-02	3.78E+01	4.68E+00	8.99E-02	4.91E-03	5.74E+01
220	3.13E-02	4.07E+01	4.27E+00	7.47E-02	6.30E-03	5.49E+01
230	3.97E-02	4.37E+01	3.88E+00	6.19E-02	8.08E-03	5.23E+01
240	4.99E-02	4.68E+01	3.51E+00	5.11E-02	1.04E-02	4.96E+01
250	6.21E-02	4.99E+01	3.17E+00	4.21E-02	1.32E-02	4.68E+01
260	7.68E-02	5.30E+01	2.85E+00	3.46E-02	1.68E-02	4.40E+01
270	9.43E-02	5.61E+01	2.55E+00	2.83E-02	2.12E-02	4.12E+01
280	1.15E-01	5.92E+01	2.27E+00	2.30E-02	2.67E-02	3.84E+01
290	1.39E-01	6.22E+01	2.01E+00	1.87E-02	3.34E-02	3.56E+01
300	1.68E-01	6.51E+01	1.78E+00	1.51E-02	4.15E-02	3.29E+01
310	2.05E-01	6.73E+01	1.60E+00	1.21E-02	5.23E-02	3.08E+01
320	2.43E-01	7.02E+01	1.40E+00	9.95E-03	6.42E-02	2.81E+01
330	2.88E-01	7.28E+01	1.22E+00	7.95E-03	7.84E-02	2.56E+01
340	3.39E-01	7.53E+01	1.06E+00	6.34E-03	9.54E-02	2.32E+01

Продолжение табл. 1

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
350	3.97E-01	7.75E+01	9.16E-01	5.04E-03	1.16E-01	2.10E+01
360	4.64E-01	7.96E+01	7.92E-01	4.00E-03	1.39E-01	1.90E+01
370	5.41E-01	8.15E+01	6.83E-01	3.16E-03	1.68E-01	1.71E+01
380	6.28E-01	8.32E+01	5.88E-01	2.50E-03	2.01E-01	1.54E+01
390	7.27E-01	8.48E+01	5.05E-01	1.97E-03	2.40E-01	1.38E+01
400	8.39E-01	8.61E+01	4.33E-01	1.55E-03	2.86E-01	1.23E+01
410	9.66E-01	8.73E+01	3.70E-01	1.22E-03	3.40E-01	1.10E+01
420	1.11E+00	8.84E+01	3.17E-01	9.58E-04	4.04E-01	9.80E+00
430	1.27E+00	8.93E+01	2.70E-01	7.52E-04	4.77E-01	8.72E+00
440	1.45E+00	9.00E+01	2.30E-01	5.89E-04	5.63E-01	7.75E+00
450	1.66E+00	9.06E+01	1.96E-01	4.62E-04	6.63E-01	6.88E+00
460	1.89E+00	9.11E+01	1.67E-01	3.61E-04	7.80E-01	6.11E+00
470	2.15E+00	9.14E+01	1.42E-01	2.82E-04	9.15E-01	5.41E+00
480	2.44E+00	9.16E+01	1.20E-01	2.21E-04	1.07E+00	4.79E+00
490	2.76E+00	9.17E+01	1.02E-01	1.72E-04	1.25E+00	4.23E+00
500	3.13E+00	9.16E+01	8.65E-02	1.35E-04	1.46E+00	3.74E+00
510	3.53E+00	9.14E+01	7.33E-02	1.05E-04	1.70E+00	3.30E+00
520	3.98E+00	9.11E+01	6.20E-02	8.17E-05	1.97E+00	2.90E+00
530	4.47E+00	9.06E+01	5.24E-02	6.36E-05	2.29E+00	2.56E+00
540	5.02E+00	9.00E+01	4.42E-02	4.95E-05	2.65E+00	2.25E+00
550	5.63E+00	8.93E+01	3.73E-02	3.85E-05	3.06E+00	1.97E+00
560	6.29E+00	8.84E+01	3.14E-02	2.99E-05	3.53E+00	1.73E+00
570	7.02E+00	8.74E+01	2.64E-02	2.32E-05	4.06E+00	1.51E+00
580	7.81E+00	8.62E+01	2.21E-02	1.80E-05	4.66E+00	1.32E+00
590	8.67E+00	8.48E+01	1.86E-02	1.39E-05	5.33E+00	1.16E+00
600	9.60E+00	8.33E+01	1.55E-02	1.07E-05	6.08E+00	1.01E+00
610	1.06E+01	8.16E+01	1.30E-02	8.27E-06	6.92E+00	8.74E-01
620	1.17E+01	7.97E+01	1.08E-02	6.36E-06	7.84E+00	7.58E-01
630	1.28E+01	7.77E+01	8.98E-03	4.88E-06	8.87E+00	6.55E-01
640	1.40E+01	7.54E+01	7.44E-03	3.74E-06	9.99E+00	5.65E-01
650	1.53E+01	7.30E+01	6.15E-03	2.86E-06	1.12E+01	4.86E-01
660	1.66E+01	7.05E+01	5.07E-03	2.18E-06	1.25E+01	4.17E-01
670	1.79E+01	6.77E+01	4.17E-03	1.65E-06	1.40E+01	3.56E-01
680	1.93E+01	6.49E+01	3.41E-03	1.25E-06	1.55E+01	3.03E-01
690	2.07E+01	6.19E+01	2.79E-03	9.45E-07	1.71E+01	2.58E-01
700	2.21E+01	5.88E+01	2.27E-03	7.11E-07	1.88E+01	2.18E-01
710	2.35E+01	5.57E+01	1.84E-03	5.33E-07	2.06E+01	1.83E-01
720	2.49E+01	5.25E+01	1.48E-03	3.99E-07	2.25E+01	1.54E-01
730	2.62E+01	4.93E+01	1.19E-03	2.97E-07	2.44E+01	1.29E-01
740	2.75E+01	4.60E+01	9.56E-04	2.20E-07	2.63E+01	1.07E-01
750	2.88E+01	4.29E+01	7.63E-04	1.63E-07	2.83E+01	8.89E-02
760	2.99E+01	3.97E+01	6.07E-04	1.20E-07	3.03E+01	7.35E-02
770	3.10E+01	3.67E+01	4.81E-04	8.82E-08	3.23E+01	6.06E-02
780	3.19E+01	3.38E+01	3.80E-04	6.46E-08	3.42E+01	4.97E-02
790	3.28E+01	3.10E+01	3.00E-04	4.71E-08	3.62E+01	4.07E-02
800	3.36E+01	2.83E+01	2.35E-04	3.43E-08	3.81E+01	3.32E-02

Широтные вариации состава при средней солнечной активности для
зимнего периода в северном и летнего периода в южном полушариях

z, км	He S, %	O/S, %	O ₂ /S, %	Ar/S, %	N S, %	N ₂ S, %
D-1, LAT -0; LON-45, LT-12; F-150, FAV-180; A ₁₁ - 3; UT-9						
80	5.58E-04	1.22E-03	2.08E+01	9.06E-01	1.60E-05	7.83E+01
90	6.15E-04	3.09E-01	2.02E+01	8.73E-01	9.91E-05	7.86E+01
100	9.56E-04	3.45E+00	1.80E+01	7.49E-01	1.51E-04	7.78E+01
110	2.50E-03	1.06E+01	1.32E+01	4.97E-01	3.50E-04	7.58E+01
120	7.08E-03	1.92E+01	8.69E+00	3.05E-01	7.26E-04	7.18E+01
130	1.18E-02	2.56E+01	6.43E+00	2.11E-01	8.76E-04	6.77E+01
140	1.73E-02	3.07E+01	5.31E+00	1.55E-01	8.97E-04	6.39E+01
150	2.49E-02	3.50E+01	4.63E+00	1.18E-01	8.91E-04	6.03E+01
160	3.42E-02	3.89E+01	4.11E+00	9.28E-02	9.07E-04	5.68E+01
170	4.53E-02	4.27E+01	3.67E+00	7.40E-02	9.65E-04	5.35E+01
180	5.84E-02	4.62E+01	3.28E+00	5.97E-02	1.07E-03	5.04E+01
190	7.37E-02	4.97E+01	2.94E+00	4.85E-02	1.23E-03	4.72E+01
200	9.15E-02	5.30E+01	2.63E+00	3.96E-02	1.44E-03	4.42E+01
210	1.12E-01	5.62E+01	2.35E+00	3.24E-02	1.72E-03	4.13E+01
220	1.36E-01	5.93E+01	2.10E+00	2.65E-02	2.07E-03	3.84E+01
230	1.63E-01	6.23E+01	1.87E+00	2.17E-02	2.50E-03	3.57E+01
240	1.94E-01	6.51E+01	1.66E+00	1.77E-02	3.02E-03	3.30E+01
250	2.30E-01	6.78E+01	1.47E+00	1.45E-02	3.64E-03	3.05E+01
260	2.70E-01	7.03E+01	1.30E+00	1.18E-02	4.38E-03	2.81E+01
270	3.16E-01	7.27E+01	1.15E+00	9.64E-03	5.25E-03	2.58E+01
280	3.68E-01	7.50E+01	1.01E+00	7.85E-03	6.27E-03	2.36E+01
290	4.27E-01	7.71E+01	8.89E-01	6.38E-03	7.48E-03	2.16E+01
300	4.93E-01	7.90E+01	7.80E-01	5.18E-03	8.88E-03	1.97E+01
310	5.68E-01	8.07E+01	6.85E-01	4.21E-03	1.05E-02	1.80E+01
320	6.52E-01	8.24E+01	5.99E-01	3.40E-03	1.24E-02	1.64E+01
330	7.45E-01	8.39E+01	5.23E-01	2.75E-03	1.46E-02	1.48E+01
340	8.50E-01	8.52E+01	4.56E-01	2.22E-03	1.71E-02	1.34E+01
350	9.67E-01	8.65E+01	3.97E-01	1.79E-03	2.01E-02	1.22E+01
360	1.10E+00	8.75E+01	3.45E-01	1.45E-03	2.34E-02	1.10E+01
370	1.24E+00	8.85E+01	3.00E-01	1.16E-03	2.73E-02	9.92E+00
380	1.41E+00	8.94E+01	2.61E-01	9.38E-04	3.18E-02	8.94E+00
390	1.59E+00	9.01E+01	2.26E-01	7.54E-04	3.69E-02	8.05E+00
400	1.79E+00	9.07E+01	1.96E-01	6.07E-04	4.28E-02	7.25E+00
410	2.01E+00	9.13E+01	1.70E-01	4.88E-04	4.95E-02	6.52E+00
420	2.26E+00	9.17E+01	1.47E-01	3.92E-04	5.72E-02	5.85E+00
430	2.54E+00	9.20E+01	1.27E-01	3.15E-04	6.60E-02	5.26E+00
440	2.84E+00	9.23E+01	1.10E-01	2.53E-04	7.60E-02	4.72E+00
450	3.18E+00	9.24E+01	9.50E-02	2.03E-04	8.74E-02	4.23E+00
460	3.55E+00	9.25E+01	8.21E-02	1.63E-04	1.00E-01	3.79E+00
470	3.96E+00	9.25E+01	7.09E-02	1.31E-04	1.15E-01	3.40E+00
480	4.42E+00	9.23E+01	6.11E-02	1.05E-04	1.32E-01	3.04E+00
490	4.92E+00	9.22E+01	5.27E-02	8.41E-05	1.51E-01	2.72E+00
500	5.47E+00	9.19E+01	4.55E-02	6.74E-05	1.72E-01	2.43E+00

λ , км	He'S, %	O/S, %	O'S, %	Ar'S, %	H'S, %	N'S, %
510	6.07E+00	9.15E+01	3.92E-02	5.40E-05	1.97E-01	2.17E+00
520	6.74E+00	9.11E+01	3.37E-02	4.33E-05	2.24E-01	1.94E+00
530	7.46E+00	9.05E+01	2.90E-02	3.47E-05	2.55E-01	1.73E+00
540	8.25E+00	8.99E+01	2.50E-02	2.77E-05	2.90E-01	1.54E+00
550	9.11E+00	8.92E+01	2.15E-02	2.22E-05	3.29E-01	1.37E+00
560	1.00E+01	8.83E+01	1.84E-02	1.78E-05	3.73E-01	1.22E+00
570	1.11E+01	8.74E+01	1.58E-02	1.42E-05	4.21E-01	1.09E+00
580	1.22E+01	8.64E+01	1.36E-02	1.13E-05	4.76E-01	9.66E-01
590	1.33E+01	8.52E+01	1.16E-02	9.04E-06	5.36E-01	8.58E-01
600	1.46E+01	8.40E+01	9.95E-03	7.21E-06	6.03E-01	7.60E-01
610	1.60E+01	8.27E+01	8.50E-03	5.75E-06	6.77E-01	6.73E-01
620	1.74E+01	8.12E+01	7.26E-03	4.57E-06	7.58E-01	5.95E-01
630	1.90E+01	7.96E+01	6.19E-03	3.63E-06	8.48E-01	5.25E-01
640	2.07E+01	7.79E+01	5.27E-03	2.89E-06	9.46E-01	4.63E-01
650	2.24E+01	7.61E+01	4.48E-03	2.29E-06	1.05E+00	4.08E-01
660	2.42E+01	7.42E+01	3.80E-03	1.81E-06	1.17E+00	3.58E-01
670	2.62E+01	7.22E+01	3.22E-03	1.43E-06	1.30E+00	3.14E-01
680	2.82E+01	7.01E+01	2.72E-03	1.13E-06	1.43E+00	2.75E-01
690	3.02E+01	6.79E+01	2.30E-03	8.91E-07	1.58E+00	2.40E-01
700	3.24E+01	6.57E+01	1.94E-03	7.01E-07	1.73E+00	2.10E-01
710	3.46E+01	6.33E+01	1.63E-03	5.51E-07	1.90E+00	1.82E-01
720	3.69E+01	6.09E+01	1.37E-03	4.32E-07	2.08E+00	1.58E-01
730	3.92E+01	5.84E+01	1.14E-03	3.38E-07	2.26E+00	1.37E-01
740	4.15E+01	5.59E+01	9.56E-04	2.64E-07	2.46E+00	1.19E-01
750	4.39E+01	5.34E+01	7.97E-04	2.05E-07	2.67E+00	1.02E-01
760	4.62E+01	5.08E+01	6.64E-04	1.60E-07	2.88E+00	8.80E-02
770	4.86E+01	4.83E+01	5.51E-04	1.24E-07	3.10E+00	7.56E-02
780	5.09E+01	4.57E+01	4.56E-04	9.61E-08	3.34E+00	6.47E-02
790	5.31E+01	4.32E+01	3.77E-04	7.43E-08	3.57E+00	5.54E-02
800	5.54E+01	4.08E+01	3.11E-04	5.74E-08	3.82E+00	4.72E-02

D-1; LAT-40; LON-45; LT-12; F-150; FAV-150; A_p-3; UT1-9

80	5.41E-04	1.34E-03	2.08E+01	8.79E-01	1.58E-05	7.83E+01
90	6.05E-04	3.47E-01	2.02E+01	8.27E-01	1.05E-04	7.86E+01
100	9.56E-04	3.94E+00	1.77E+01	6.79E-01	1.74E-04	7.76E+01
110	2.43E-03	1.17E+01	1.28E+01	4.44E-01	3.96E-04	7.50E+01
120	6.77E-03	2.06E+01	8.35E+00	2.69E-01	7.13E-04	7.08E+01
130	1.83E-02	2.78E+01	5.98E+00	1.72E-01	9.04E-04	6.60E+01
140	3.74E-02	3.38E+01	4.81E+00	1.17E-01	9.80E-04	6.12E+01
150	5.77E-02	3.90E+01	4.08E+00	8.29E-02	1.02E-03	5.68E+01
160	8.09E-02	4.39E+01	3.53E+00	6.11E-02	1.09E-03	5.25E+01
170	1.08E-01	4.84E+01	3.07E+00	4.63E-02	1.19E-03	4.84E+01
180	1.40E-01	5.26E+01	2.68E+00	3.56E-02	1.35E-03	4.45E+01
190	1.78E-01	5.66E+01	2.33E+00	2.78E-02	1.58E-03	4.08E+01
200	2.21E-01	6.04E+01	2.03E+00	2.18E-02	1.88E-03	3.73E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	2.72E-01	6.39E+01	1.77E+00	1.71E-02	2.27E-03	3.40E+01
220	3.29E-01	6.72E+01	1.53E+00	1.35E-02	2.74E-03	3.09E+01
230	3.96E-01	7.02E+01	1.33E+00	1.07E-02	3.33E-03	2.81E+01
240	4.71E-01	7.30E+01	1.15E+00	8.45E-03	4.04E-03	2.54E+01
250	5.58E-01	7.55E+01	9.93E-01	6.68E-03	4.89E-03	2.29E+01
260	6.56E-01	7.78E+01	8.56E-01	5.28E-03	5.90E-03	2.07E+01
270	7.68E-01	7.99E+01	7.37E-01	4.17E-03	7.10E-03	1.86E+01
280	8.94E-01	8.18E+01	6.34E-01	3.29E-03	8.51E-03	1.67E+01
290	1.04E+00	8.34E+01	5.45E-01	2.59E-03	1.02E-02	1.50E+01
300	1.20E+00	8.49E+01	4.67E-01	2.04E-03	1.21E-02	1.34E+01
310	1.37E+00	8.63E+01	3.99E-01	1.60E-03	1.43E-02	1.19E+01
320	1.58E+00	8.74E+01	3.41E-01	1.26E-03	1.70E-02	1.06E+01
330	1.81E+00	8.84E+01	2.92E-01	9.93E-04	2.01E-02	9.49E+00
340	2.07E+00	8.92E+01	2.50E-01	7.81E-04	2.37E-02	8.46E+00
350	2.37E+00	8.99E+01	2.13E-01	6.14E-04	2.79E-02	7.53E+00
360	2.69E+00	9.04E+01	1.82E-01	4.82E-04	3.28E-02	6.69E+00
370	3.06E+00	9.08E+01	1.55E-01	3.79E-04	3.84E-02	5.94E+00
380	3.47E+00	9.11E+01	1.32E-01	2.97E-04	4.50E-02	5.27E+00
390	3.93E+00	9.12E+01	1.12E-01	2.33E-04	5.25E-02	4.67E+00
400	4.44E+00	9.13E+01	9.56E-02	1.83E-04	6.11E-02	4.14E+00
410	5.01E+00	9.12E+01	8.12E-02	1.43E-04	7.11E-02	3.66E+00
420	5.64E+00	9.10E+01	6.89E-02	1.12E-04	8.25E-02	3.24E+00
430	6.34E+00	9.06E+01	5.85E-02	8.79E-05	9.56E-02	2.86E+00
440	7.12E+00	9.02E+01	4.96E-02	6.88E-05	1.11E-01	2.52E+00
450	7.98E+00	8.96E+01	4.20E-02	5.38E-05	1.28E-01	2.22E+00
460	8.92E+00	8.89E+01	3.55E-02	4.20E-05	1.47E-01	1.96E+00
470	9.96E+00	8.81E+01	3.00E-02	3.28E-05	1.69E-01	1.72E+00
480	1.11E+01	8.72E+01	2.54E-02	2.56E-05	1.94E-01	1.51E+00
490	1.23E+01	8.61E+01	2.14E-02	1.99E-05	2.22E-01	1.33E+00
500	1.37E+01	8.49E+01	1.80E-02	1.55E-05	2.54E-01	1.16E+00
510	1.51E+01	8.35E+01	1.52E-02	1.21E-05	2.90E-01	1.02E+00
520	1.67E+01	8.20E+01	1.27E-02	9.38E-06	3.29E-01	8.89E-01
530	1.84E+01	8.04E+01	1.07E-02	7.28E-06	3.74E-01	7.75E-01
540	2.03E+01	7.86E+01	8.94E-03	5.64E-06	4.23E-01	6.75E-01
550	2.22E+01	7.67E+01	7.47E-03	4.36E-06	4.77E-01	5.86E-01
560	2.43E+01	7.47E+01	6.23E-03	3.36E-06	5.37E-01	5.08E-01
570	2.64E+01	7.25E+01	5.18E-03	2.59E-06	6.02E-01	4.39E-01
580	2.87E+01	7.02E+01	4.30E-03	1.99E-06	6.73E-01	3.79E-01
590	3.11E+01	6.78E+01	3.56E-03	1.53E-06	7.51E-01	3.26E-01
600	3.36E+01	6.53E+01	2.94E-03	1.17E-06	8.34E-01	2.80E-01
610	3.62E+01	6.27E+01	2.43E-03	8.94E-07	9.24E-01	2.40E-01
620	3.88E+01	6.00E+01	2.00E-03	6.81E-07	1.02E+00	2.05E-01
630	4.15E+01	5.72E+01	1.64E-03	5.18E-07	1.12E+00	1.74E-01
640	4.42E+01	5.44E+01	1.34E-03	3.92E-07	1.23E+00	1.48E-01
650	4.69E+01	5.16E+01	1.09E-03	2.97E-07	1.34E+00	1.25E-01
660	4.96E+01	4.88E+01	8.88E-04	2.24E-07	1.46E+00	1.06E-01
670	5.23E+01	4.60E+01	7.20E-04	1.69E-07	1.58E+00	8.92E-02
680	5.50E+01	4.32E+01	5.83E-04	1.27E-07	1.71E+00	7.50E-02
690	5.76E+01	4.05E+01	4.70E-04	9.49E-08	1.84E+00	6.28E-02
700	6.02E+01	3.78E+01	3.79E-04	7.09E-08	1.98E+00	5.25E-02

Продолжение табл. 2

z, км	He/S, %	O/S, %	O S, %	Ar S, %	H/S, %	N, S, %
710	6.26E+01	3.52E+01	3.04E-04	5.29E-08	2.12E+00	4.37E-02
720	6.50E+01	3.27E+01	2.44E-04	3.94E-08	2.26E+00	3.64E-02
730	6.73E+01	3.03E+01	1.95E-04	2.92E-08	2.40E+00	3.02E-02
740	6.94E+01	2.80E+01	1.56E-04	2.17E-08	2.55E+00	2.50E-02
750	7.14E+01	2.58E+01	1.24E-04	1.61E-08	2.70E+00	2.06E-02
760	7.34E+01	2.38E+01	9.86E-05	1.19E-08	2.85E+00	1.70E-02
770	7.52E+01	2.18E+01	7.83E-05	8.76E-09	3.00E+00	1.40E-02
780	7.68E+01	2.00E+01	6.20E-05	6.46E-09	3.15E+00	1.15E-02
790	7.84E+01	1.83E+01	4.91E-05	4.76E-09	3.30E+00	9.46E-03
800	7.98E+01	1.67E+01	3.89E-05	3.50E-09	3.45E+00	7.76E-03

D-1; LAT-80; LON-45; LT-12; F-150; FAV-130; A_p-3; UT_h-90

80	5.36E-04	1.40E-03	2.08E+01	9.04E-01	1.51E-05	7.83E+01
90	5.90E-04	3.61E-01	2.03E+01	8.66E-01	9.82E-05	7.84E+01
100	9.52E-04	4.14E+00	1.80E+01	7.22E-01	1.75E-04	7.71E+01
110	2.37E-03	1.20E+01	1.36E+01	4.97E-01	3.76E-04	7.39E+01
120	6.95E-03	2.06E+01	9.40E+00	3.21E-01	6.12E-04	6.96E+01
130	2.85E-02	2.78E+01	7.01E+00	2.17E-01	7.54E-04	6.49E+01
140	7.62E-02	3.38E+01	5.73E+00	1.53E-01	7.96E-04	6.02E+01
150	1.23E-01	3.92E+01	4.87E+00	1.12E-01	8.17E-04	5.56E+01
160	1.74E-01	4.43E+01	4.20E+00	8.33E-02	8.58E-04	5.12E+01
170	2.33E-01	4.92E+01	3.62E+00	6.30E-02	9.38E-04	4.69E+01
180	3.04E-01	5.38E+01	3.12E+00	4.81E-02	1.07E-03	4.28E+01
190	3.87E-01	5.81E+01	2.68E+00	3.68E-02	1.25E-03	3.88E+01
200	4.86E-01	6.22E+01	2.29E+00	2.82E-02	1.50E-03	3.50E+01
210	6.01E-01	6.59E+01	1.95E+00	2.16E-02	1.83E-03	3.15E+01
220	7.37E-01	6.94E+01	1.66E+00	1.66E-02	2.24E-03	2.82E+01
230	8.95E-01	7.26E+01	1.41E+00	1.27E-02	2.76E-03	2.51E+01
240	1.08E+00	7.54E+01	1.19E+00	9.68E-03	3.40E-03	2.23E+01
250	1.29E+00	7.80E+01	1.00E+00	7.37E-03	4.18E-03	1.97E+01
260	1.54E+00	8.02E+01	8.40E-01	5.60E-03	5.13E-03	1.74E+01
270	1.82E+00	8.21E+01	7.03E-01	4.25E-03	6.28E-03	1.54E+01
280	2.15E+00	8.38E+01	5.88E-01	3.22E-03	7.67E-03	1.35E+01
290	2.53E+00	8.52E+01	4.90E-01	2.43E-03	9.33E-03	1.18E+01
300	2.96E+00	8.63E+01	4.08E-01	1.84E-03	1.13E-02	1.03E+01
310	3.42E+00	8.73E+01	3.36E-01	1.38E-03	1.36E-02	8.91E+00
320	3.99E+00	8.80E+01	2.79E-01	1.04E-03	1.64E-02	7.76E+00
330	4.63E+00	8.84E+01	2.31E-01	7.80E-04	1.97E-02	6.75E+00
340	5.36E+00	8.86E+01	1.91E-01	5.86E-04	2.36E-02	5.86E+00
350	6.19E+00	8.86E+01	1.58E-01	4.40E-04	2.83E-02	5.07E+00
360	7.12E+00	8.83E+01	1.30E-01	3.30E-04	3.37E-02	4.39E+00
370	8.17E+00	8.79E+01	1.07E-01	2.47E-04	4.01E-02	3.78E+00
380	9.35E+00	8.73E+01	8.80E-02	1.84E-04	4.76E-02	3.26E+00
390	1.07E+01	8.64E+01	7.21E-02	1.37E-04	5.62E-02	2.80E+00
400	1.21E+01	8.53E+01	5.90E-02	1.02E-04	6.63E-02	2.40E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.38E+01	8.41E+01	4.82E-02	7.61E-05	7.79E-02	2.05E+00
420	1.56E+01	8.26E+01	3.92E-02	5.64E-05	9.11E-02	1.75E+00
430	1.75E+01	8.08E+01	3.19E-02	4.17E-05	1.06E-01	1.49E+00
440	1.97E+01	7.89E+01	2.58E-02	3.08E-05	1.24E-01	1.27E+00
450	2.20E+01	7.68E+01	2.09E-02	2.27E-05	1.43E-01	1.07E+00
460	2.45E+01	7.44E+01	1.68E-02	1.67E-05	1.65E-01	9.05E-01
470	2.72E+01	7.19E+01	1.35E-02	1.22E-05	1.89E-01	7.61E-01
480	3.00E+01	6.91E+01	1.08E-02	8.92E-06	2.16E-01	6.38E-01
490	3.30E+01	6.62E+01	8.62E-03	6.49E-06	2.46E-01	5.33E-01
500	3.61E+01	6.32E+01	6.85E-03	4.70E-06	2.79E-01	4.43E-01
510	3.93E+01	6.00E+01	5.42E-03	3.40E-06	3.14E-01	3.67E-01
520	4.26E+01	5.68E+01	4.28E-03	2.45E-06	3.52E-01	3.03E-01
530	4.59E+01	5.34E+01	3.36E-03	1.76E-06	3.93E-01	2.49E-01
540	4.93E+01	5.01E+01	2.63E-03	1.25E-06	4.36E-01	2.04E-01
550	5.26E+01	4.67E+01	2.05E-03	8.93E-07	4.82E-01	1.66E-01
560	5.59E+01	4.34E+01	1.59E-03	6.34E-07	5.30E-01	1.35E-01
570	5.92E+01	4.01E+01	1.23E-03	4.48E-07	5.80E-01	1.09E-01
580	6.23E+01	3.70E+01	9.46E-04	3.16E-07	6.31E-01	8.78E-02
590	6.53E+01	3.39E+01	7.26E-04	2.22E-07	6.84E-01	7.05E-02
600	6.82E+01	3.10E+01	5.56E-04	1.55E-07	7.39E-01	5.64E-02
610	7.09E+01	2.82E+01	4.24E-04	1.08E-07	7.94E-01	4.49E-02
620	7.35E+01	2.56E+01	3.22E-04	7.54E-08	8.51E-01	3.57E-02
630	7.59E+01	2.32E+01	2.45E-04	5.24E-08	9.08E-01	2.83E-02
640	7.81E+01	2.09E+01	1.85E-04	3.63E-08	9.66E-01	2.24E-02
650	8.01E+01	1.88E+01	1.40E-04	2.51E-08	1.02E+00	1.77E-02
660	8.20E+01	1.69E+01	1.05E-04	1.74E-08	1.08E+00	1.39E-02
670	8.37E+01	1.51E+01	7.94E-05	1.20E-08	1.14E+00	1.09E-02
680	8.53E+01	1.35E+01	5.97E-05	8.26E-09	1.20E+00	8.59E-03
690	8.67E+01	1.21E+01	4.48E-05	5.69E-09	1.26E+00	6.73E-03
700	8.79E+01	1.08E+01	3.36E-05	3.91E-09	1.32E+00	5.27E-03
710	8.90E+01	9.58E+00	2.52E-05	2.69E-09	1.38E+00	4.13E-03
720	9.00E+01	8.52E+00	1.88E-05	1.85E-09	1.44E+00	3.22E-03
730	9.09E+01	7.56E+00	1.41E-05	1.27E-09	1.51E+00	2.52E-03
740	9.17E+01	6.71E+00	1.06E-05	8.73E-10	1.57E+00	1.97E-03
750	9.24E+01	5.95E+00	7.90E-06	6.00E-10	1.63E+00	1.54E-03
760	9.30E+01	5.28E+00	5.91E-06	4.12E-10	1.69E+00	1.20E-03
770	9.36E+01	4.67E+00	4.42E-06	2.83E-10	1.76E+00	9.35E-04
780	9.40E+01	4.14E+00	3.30E-06	1.95E-10	1.83E+00	7.30E-04
790	9.44E+01	3.66E+00	2.47E-06	1.34E-10	1.89E+00	5.69E-04
800	9.48E+01	3.24E+00	1.85E-06	9.21E-11	1.96E+00	4.44E-04

D—1; LAT—40; LON—45; LT—12; F—150; FAV—150; A_p—3; UT1—9

80	5.43E-04	1.14E-03	2.08E+01	9.36E-01	1.44E-05	7.83E+01
90	6.08E-04	2.88E-01	2.03E+01	9.18E-01	9.14E-05	7.85E+01
100	9.55E-04	3.20E+00	1.81E+01	8.09E-01	1.41E-04	7.79E+01

λ , км	He/S, %	O/S, %	O ₂ S, %	Ar/S, %	H S, %	N ₂ S, %
110	2.42E-03	9.52E+00	1.36E+01	5.77E-01	3.11E-04	7.63E+01
120	5.82E-03	1.71E+01	9.31E+00	3.83E-01	5.76E-04	7.32E+01
130	7.52E-03	2.29E+01	7.03E+00	2.81E-01	6.98E-04	6.98E+01
140	9.21E-03	2.73E+01	5.91E+00	2.18E-01	7.00E-04	6.66E+01
150	1.28E-02	3.10E+01	5.23E+00	1.75E-01	6.79E-04	6.36E+01
160	1.76E-02	3.44E+01	4.71E+00	1.43E-01	6.76E-04	6.07E+01
170	2.33E-02	3.76E+01	4.28E+00	1.19E-01	7.06E-04	5.79E+01
180	3.00E-02	4.07E+01	3.89E+00	9.86E-02	7.71E-04	5.53E+01
190	3.78E-02	4.37E+01	3.55E+00	8.25E-02	8.75E-04	5.26E+01
200	4.69E-02	4.67E+01	3.23E+00	6.91E-02	1.02E-03	5.00E+01
210	5.74E-02	4.96E+01	2.94E+00	5.80E-02	1.21E-03	4.74E+01
220	6.94E-02	5.24E+01	2.67E+00	4.87E-02	1.44E-03	4.48E+01
230	8.33E-02	5.52E+01	2.43E+00	4.09E-02	1.73E-03	4.23E+01
240	9.90E-02	5.79E+01	2.20E+00	3.44E-02	2.08E-03	3.98E+01
250	1.17E-01	6.05E+01	1.99E+00	2.88E-02	2.50E-03	3.73E+01
260	1.37E-01	6.31E+01	1.79E+00	2.41E-02	2.99E-03	3.49E+01
270	1.60E-01	6.56E+01	1.61E+00	2.02E-02	3.57E-03	3.26E+01
280	1.86E-01	6.80E+01	1.45E+00	1.69E-02	4.25E-03	3.04E+01
290	2.15E-01	7.02E+01	1.30E+00	1.41E-02	5.04E-03	2.82E+01
300	2.48E-01	7.24E+01	1.16E+00	1.17E-02	5.95E-03	2.62E+01
310	2.86E-01	7.43E+01	1.04E+00	9.79E-03	7.05E-03	2.44E+01
320	3.27E-01	7.62E+01	9.30E-01	8.12E-03	8.27E-03	2.25E+01
330	3.73E-01	7.81E+01	8.27E-01	6.73E-03	9.66E-03	2.07E+01
340	4.24E-01	7.98E+01	7.34E-01	5.57E-03	1.13E-02	1.91E+01
350	4.80E-01	8.13E+01	6.51E-01	4.60E-03	1.31E-02	1.75E+01
360	5.43E-01	8.28E+01	5.76E-01	3.80E-03	1.52E-02	1.60E+01
370	6.13E-01	8.42E+01	5.10E-01	3.14E-03	1.76E-02	1.47E+01
380	6.90E-01	8.54E+01	4.50E-01	2.59E-03	2.04E-02	1.34E+01
390	7.75E-01	8.65E+01	3.98E-01	2.13E-03	2.35E-02	1.23E+01
400	8.69E-01	8.75E+01	3.51E-01	1.76E-03	2.70E-02	1.12E+01
410	9.74E-01	8.85E+01	3.09E-01	1.44E-03	3.11E-02	1.02E+01
420	1.09E+00	8.93E+01	2.72E-01	1.19E-03	3.56E-02	9.31E+00
430	1.22E+00	9.00E+01	2.39E-01	9.77E-04	4.08E-02	8.48E+00
440	1.36E+00	9.07E+01	2.11E-01	8.03E-04	4.67E-02	7.72E+00
450	1.51E+00	9.12E+01	1.85E-01	6.60E-04	5.33E-02	7.02E+00
460	1.68E+00	9.17E+01	1.63E-01	5.42E-04	6.09E-02	6.37E+00
470	1.87E+00	9.21E+01	1.43E-01	4.45E-04	6.93E-02	5.79E+00
480	2.07E+00	9.25E+01	1.25E-01	3.65E-04	7.89E-02	5.26E+00
490	2.30E+00	9.27E+01	1.10E-01	3.00E-04	8.97E-02	4.77E+00
500	2.54E+00	9.29E+01	9.65E-02	2.46E-04	1.02E-01	4.32E+00
510	2.18E+00	9.31E+01	8.46E-02	2.02E-04	1.15E-01	3.92E+00
520	3.11E+00	9.31E+01	7.42E-02	1.66E-04	1.31E-01	3.55E+00
530	3.43E+00	9.31E+01	6.50E-02	1.36E-04	1.48E-01	3.22E+00
540	3.79E+00	9.31E+01	5.70E-02	1.11E-04	1.67E-01	2.91E+00
550	4.17E+00	9.30E+01	4.99E-02	9.14E-05	1.89E-01	2.64E+00
560	4.59E+00	9.28E+01	4.37E-02	7.50E-05	2.13E-01	2.39E+00
570	5.05E+00	9.25E+01	3.82E-02	6.15E-05	2.40E-01	2.16E+00
580	5.55E+00	9.22E+01	3.35E-02	5.04E-05	2.71E-01	1.95E+00
590	6.09E+00	9.18E+01	2.93E-02	4.13E-05	3.04E-01	1.76E+00
600	6.68E+00	9.14E+01	2.56E-02	3.39E-05	3.42E-01	1.59E+00

z, км	He/S, %	O S, %	O ₂ S, %	Ar/S, %	H.S, %	N ₂ /S, %
610	7.31E+00	9.08E+01	2.24E-02	2.78E-05	3.84E-01	1.44E+00
620	8.00E+00	9.03E+01	1.95E-02	2.27E-05	4.30E-01	1.30E+00
630	8.74E+00	8.96E+01	1.71E-02	1.86E-05	4.81E-01	1.17E+00
640	9.54E+00	8.88E+01	1.49E-02	1.53E-05	5.38E-01	1.05E+00
650	1.04E+01	8.80E+01	1.30E-02	1.25E-05	6.01E-01	9.48E-01
660	1.13E+01	8.71E+01	1.13E-02	1.02E-05	6.70E-01	8.53E-01
670	1.23E+01	8.62E+01	9.86E-03	8.35E-06	7.46E-01	7.67E-01
680	1.34E+01	8.51E+01	8.58E-03	6.82E-06	8.30E-01	6.89E-01
690	1.45E+01	8.39E+01	7.47E-03	5.57E-06	9.21E-01	6.18E-01
700	1.57E+01	8.27E+01	6.49E-03	4.55E-06	1.02E+00	5.54E-01
710	1.70E+01	8.14E+01	5.63E-03	3.71E-06	1.13E+00	4.97E-01
720	1.83E+01	8.00E+01	4.88E-03	3.02E-06	1.25E+00	4.44E-01
730	1.97E+01	7.85E+01	4.23E-03	2.46E-06	1.38E+00	3.97E-01
740	2.12E+01	7.69E+01	3.66E-03	2.00E-06	1.52E+00	3.55E-01
750	2.28E+01	7.52E+01	3.16E-03	1.62E-06	1.67E+00	3.16E-01
760	2.44E+01	7.35E+01	2.73E-03	1.32E-06	1.83E+00	2.81E-01
770	2.61E+01	7.16E+01	2.35E-03	1.07E-06	2.00E+00	2.50E-01
780	2.79E+01	6.97E+01	2.03E-03	8.64E-07	2.18E+00	2.22E-01
790	2.97E+01	6.77E+01	1.74E-03	6.99E-07	2.38E+00	1.97E-01
800	3.15E+01	6.57E+01	1.49E-03	5.64E-07	2.59E+00	1.74E-01

D-1; LAT -80; LON -45; LT-12; F-150; FAV-150; A_p -3; UTI-9

80	5.42E-04	9.62E-04	2.08E+01	9.66E-01	1.40E-05	7.82E+01
90	6.01E-04	2.37E-01	2.04E+01	9.68E-01	8.74E-05	7.84E+01
100	9.53E-04	2.59E+00	1.85E+01	8.79E-01	1.38E-04	7.80E+01
110	2.32E-03	7.46E+00	1.47E+01	6.73E-01	2.91E-04	7.71E+01
120	4.71E-03	1.30E+01	1.09E+01	4.90E-01	5.05E-04	7.56E+01
130	4.22E-03	1.73E+01	8.77E+00	3.90E-01	6.08E-04	7.36E+01
140	4.07E-03	2.04E+01	7.65E+00	3.26E-01	6.07E-04	7.16E+01
150	5.47E-03	2.29E+01	6.94E+00	2.79E-01	5.87E-04	6.98E+01
160	7.54E-03	2.52E+01	6.42E+00	2.40E-01	5.84E-04	6.81E+01
170	1.01E-02	2.74E+01	5.97E+00	2.07E-01	6.10E-04	6.64E+01
180	1.31E-02	2.95E+01	5.56E+00	1.79E-01	6.69E-04	6.47E+01
190	1.67E-02	3.16E+01	5.20E+00	1.55E-01	7.62E-04	6.30E+01
200	2.09E-02	3.37E+01	4.86E+00	1.35E-01	8.91E-04	6.13E+01
210	2.58E-02	3.58E+01	4.54E+00	1.17E-01	1.06E-03	5.95E+01
220	3.15E-02	3.80E+01	4.24E+00	1.02E-01	1.28E-03	5.76E+01
230	3.82E-02	4.02E+01	3.95E+00	8.82E-02	1.54E-03	5.57E+01
240	4.58E-02	4.25E+01	3.68E+00	7.65E-02	1.86E-03	5.37E+01
250	5.45E-02	4.48E+01	3.42E+00	6.65E-02	2.25E-03	5.17E+01
260	6.45E-02	4.71E+01	3.17E+00	5.76E-02	2.70E-03	4.96E+01
270	7.58E-02	4.95E+01	2.94E+00	4.98E-02	3.24E-03	4.75E+01
280	8.87E-02	5.18E+01	2.71E+00	4.31E-02	3.88E-03	4.53E+01
290	1.03E-01	5.42E+01	2.50E+00	3.72E-02	4.62E-03	4.32E+01
300	1.20E-01	5.65E+01	2.30E+00	3.20E-02	5.48E-03	4.11E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	1.40E-01	5.82E+01	2.14E+00	2.79E-02	6.56E-03	3.95E+01
320	1.61E-01	6.06E+01	1.96E+00	2.39E-02	7.71E-03	3.73E+01
330	1.84E-01	6.29E+01	1.79E+00	2.05E-02	9.02E-03	3.51E+01
340	2.10E-01	6.51E+01	1.63E+00	1.75E-02	1.05E-02	3.30E+01
350	2.38E-01	6.72E+01	1.48E+00	1.50E-02	1.23E-02	3.10E+01
360	2.70E-01	6.93E+01	1.35E+00	1.28E-02	1.42E-02	2.91E+01
370	3.05E-01	7.12E+01	1.22E+00	1.09E-02	1.65E-02	2.72E+01
380	3.44E-01	7.31E+01	1.10E+00	9.23E-03	1.90E-02	2.54E+01
390	3.87E-01	7.49E+01	9.98E-01	7.84E-03	2.19E-02	2.37E+01
400	4.35E-01	7.65E+01	9.01E-01	6.66E-03	2.52E-02	2.21E+01
410	4.87E-01	7.81E+01	8.13E-01	5.64E-03	2.89E-02	2.05E+01
420	5.45E-01	7.96E+01	7.32E-01	4.78E-03	3.30E-02	1.91E+01
430	6.08E-01	8.10E+01	6.59E-01	4.04E-03	3.77E-02	1.77E+01
440	6.77E-01	8.23E+01	5.92E-01	3.42E-03	4.30E-02	1.64E+01
450	7.53E-01	8.35E+01	5.32E-01	2.89E-03	4.89E-02	1.52E+01
460	8.36E-01	8.46E+01	4.77E-01	2.44E-03	5.55E-02	1.40E+01
470	9.26E-01	8.56E+01	4.27E-01	2.06E-03	6.30E-02	1.30E+01
480	1.03E+00	8.65E+01	3.83E-01	1.73E-03	7.13E-02	1.20E+01
490	1.13E+00	8.74E+01	3.43E-01	1.46E-03	8.07E-02	1.11E+01
500	1.25E+00	8.82E+01	3.07E-01	1.23E-03	9.11E-02	1.02E+01
510	1.38E+00	8.89E+01	2.74E-01	1.04E-03	1.03E-01	9.39E+00
520	1.52E+00	8.95E+01	2.45E-01	8.72E-04	1.16E-01	8.64E+00
530	1.67E+00	9.00E+01	2.19E-01	7.34E-04	1.30E-01	7.95E+00
540	1.84E+00	9.05E+01	1.95E-01	6.17E-04	1.46E-01	7.31E+00
550	2.02E+00	9.09E+01	1.74E-01	5.19E-04	1.64E-01	6.72E+00
560	2.21E+00	9.13E+01	1.55E-01	4.36E-04	1.84E-01	6.18E+00
570	2.43E+00	9.16E+01	1.39E-01	3.67E-04	2.06E-01	5.67E+00
580	2.66E+00	9.18E+01	1.24E-01	3.08E-04	2.31E-01	5.21E+00
590	2.91E+00	9.19E+01	1.10E-01	2.59E-04	2.58E-01	4.78E+00
600	3.17E+00	9.21E+01	9.81E-02	2.18E-04	2.88E-01	4.38E+00
610	3.47E+00	9.21E+01	8.74E-02	1.83E-04	3.22E-01	4.02E+00
620	3.78E+00	9.21E+01	7.78E-02	1.54E-04	3.59E-01	3.68E+00
630	4.12E+00	9.20E+01	6.92E-02	1.29E-04	4.00E-01	3.37E+00
640	4.49E+00	9.19E+01	6.16E-02	1.09E-04	4.45E-01	3.09E+00
650	4.88E+00	9.17E+01	5.48E-02	9.11E-05	4.94E-01	2.83E+00
660	5.31E+00	9.15E+01	4.87E-02	7.65E-05	5.49E-01	2.59E+00
670	5.77E+00	9.12E+01	4.33E-02	6.43E-05	6.09E-01	2.37E+00
680	6.26E+00	9.09E+01	3.85E-02	5.39E-05	6.75E-01	2.17E+00
690	6.78E+00	9.05E+01	3.42E-02	4.53E-05	7.48E-01	1.98E+00
700	7.35E+00	9.00E+01	3.04E-02	3.80E-05	8.28E-01	1.81E+00
710	7.95E+00	8.95E+01	2.70E-02	3.19E-05	9.15E-01	1.65E+00
720	8.60E+00	8.89E+01	2.39E-02	2.67E-05	1.01E+00	1.51E+00
730	9.28E+00	8.82E+01	2.12E-02	2.24E-05	1.11E+00	1.38E+00
740	1.00E+01	8.75E+01	1.88E-02	1.88E-05	1.23E+00	1.25E+00
750	1.08E+01	8.67E+01	1.67E-02	1.57E-05	1.35E+00	1.14E+00
760	1.16E+01	8.58E+01	1.48E-02	1.32E-05	1.49E+00	1.04E+00
770	1.25E+01	8.49E+01	1.31E-02	1.10E-05	1.63E+00	9.48E-01
780	1.34E+01	8.39E+01	1.16E-02	9.24E-06	1.79E+00	8.62E-01
790	1.44E+01	8.29E+01	1.02E-02	7.73E-06	1.96E+00	7.83E-01
800	1.54E+01	8.17E+01	9.03E-03	6.46E-06	2.14E+00	7.11E-01

Широтные вариации состава при высокой солнечной активности для зимнего периода в северном и летнего периода в южном полушариях

λ , км	He/S, %	O/S, %	O/S, %	Ar/S, %	Ne/S, %	N ₂ /S, %
$D=1$; LAT=0; LON=46; LT=12; $F=200$; FAV=200; $A_p=3$; UT1=9						
80	5.54E-04	1.27E-03	2.07E+01	9.04E-01	1.43E-05	7.83E+01
90	6.16E-04	3.23E-01	2.02E+01	8.71E-01	8.69E-05	7.86E+01
100	9.56E-04	3.63E+00	1.78E+01	7.46E-01	1.25E-04	7.79E+01
110	2.46E-03	1.12E+01	1.27E+01	4.92E-01	2.73E-04	7.56E+01
120	4.88E-03	1.91E+01	8.40E+00	3.27E-01	3.71E-04	7.22E+01
130	7.81E-03	2.47E+01	6.25E+00	2.40E-01	3.62E-04	6.88E+01
140	1.22E-02	2.93E+01	5.20E+00	1.80E-01	3.38E-04	6.53E+01
150	1.81E-02	3.35E+01	4.54E+00	1.39E-01	3.25E-04	6.18E+01
160	2.53E-02	3.75E+01	4.03E+00	1.09E-01	3.29E-04	5.83E+01
170	3.41E-02	4.13E+01	3.60E+00	8.68E-02	3.51E-04	5.50E+01
180	4.43E-02	4.49E+01	3.23E+00	7.02E-02	3.91E-04	5.18E+01
190	5.66E-02	4.84E+01	2.90E+00	5.71E-02	4.52E-04	4.86E+01
200	7.05E-02	5.17E+01	2.60E+00	4.69E-02	5.32E-04	4.56E+01
210	8.60E-02	5.49E+01	2.34E+00	3.88E-02	6.32E-04	4.27E+01
220	1.04E-01	5.78E+01	2.10E+00	3.21E-02	7.54E-04	3.99E+01
230	1.24E-01	6.07E+01	1.89E+00	2.67E-02	9.01E-04	3.73E+01
240	1.46E-01	6.34E+01	1.70E+00	2.23E-02	1.07E-03	3.48E+01
250	1.71E-01	6.59E+01	1.52E+00	1.86E-02	1.28E-03	3.24E+01
260	1.98E-01	6.83E+01	1.37E+00	1.55E-02	1.51E-03	3.01E+01
270	2.28E-01	7.05E+01	1.22E+00	1.30E-02	1.78E-03	2.80E+01
280	2.62E-01	7.27E+01	1.10E+00	1.08E-02	2.09E-03	2.60E+01
290	2.99E-01	7.47E+01	9.82E-01	9.04E-03	2.45E-03	2.41E+01
300	3.40E-01	7.65E+01	8.78E-01	7.55E-03	2.85E-03	2.23E+01
310	3.86E-01	7.83E+01	7.85E-01	6.30E-03	3.31E-03	2.06E+01
320	4.36E-01	7.99E+01	7.00E-01	5.26E-03	3.84E-03	1.90E+01
330	4.91E-01	8.14E+01	6.24E-01	4.39E-03	4.43E-03	1.75E+01
340	5.52E-01	8.28E+01	5.56E-01	3.65E-03	5.11E-03	1.61E+01
350	6.20E-01	8.41E+01	4.94E-01	3.04E-03	5.88E-03	1.48E+01
360	6.94E-01	8.53E+01	4.39E-01	2.53E-03	6.75E-03	1.36E+01
370	7.77E-01	8.63E+01	3.90E-01	2.10E-03	7.73E-03	1.25E+01
380	8.67E-01	8.73E+01	3.46E-01	1.75E-03	8.85E-03	1.14E+01
390	9.66E-01	8.82E+01	3.07E-01	1.45E-03	1.01E-02	1.05E+01
400	1.11E+00	8.92E+01	2.66E-01	1.17E-03	1.19E-02	9.45E+00
410	1.23E+00	8.99E+01	2.36E-01	9.70E-04	1.36E-02	8.65E+00
420	1.37E+00	9.05E+01	2.09E-01	8.05E-04	1.54E-02	7.90E+00
430	1.51E+00	9.11E+01	1.85E-01	6.68E-04	1.75E-02	7.22E+00
440	1.68E+00	9.15E+01	1.63E-01	5.54E-04	1.99E-02	6.59E+00
450	1.85E+00	9.20E+01	1.41E-01	4.59E-04	2.25E-02	6.02E+00
460	2.05E+00	9.23E+01	1.28E-01	3.80E-04	2.55E-02	5.49E+00
470	2.26E+00	9.26E+01	1.13E-01	3.15E-04	2.88E-02	5.00E+00
480	2.49E+00	9.28E+01	9.95E-02	2.61E-04	3.25E-02	4.56E+00
490	2.74E+00	9.30E+01	8.78E-02	2.17E-04	3.66E-02	4.15E+00
500	3.02E+00	9.31E+01	7.75E-02	1.79E-04	4.13E-02	3.78E+00

z, км	He/S, %	O/S, %	U/S, %	V/S, %	Fe/S, %	N/S, %
510	3.32E+00	9.31E+01	6.84E-02	1.49E-04	4.65E-02	3.45E+00
520	3.65E+00	9.31E+01	6.03E-02	1.23E-04	5.22E-02	3.14E+00
530	4.00E+00	9.30E+01	5.32E-02	1.02E-04	5.87E-02	2.85E+00
540	4.39E+00	9.29E+01	4.69E-02	8.45E-05	6.59E-02	2.59E+00
550	4.80E+00	9.27E+01	4.13E-02	7.00E-05	7.39E-02	2.36E+00
560	5.26E+00	9.25E+01	3.64E-02	5.80E-05	8.27E-02	2.11E+00
570	5.75E+00	9.22E+01	3.21E-02	4.80E-05	9.26E-02	1.95E+00
580	6.28E+00	9.18E+01	2.83E-02	3.98E-05	1.04E-01	1.77E+00
590	6.86E+00	9.14E+01	2.49E-02	3.29E-05	1.16E-01	1.61E+00
600	7.48E+00	9.09E+01	2.19E-02	2.73E-05	1.29E-01	1.46E+00
610	8.14E+00	9.04E+01	1.93E-02	2.26E-05	1.44E-01	1.32E+00
620	8.86E+00	8.98E+01	1.69E-02	1.87E-05	1.60E-01	1.20E+00
630	9.63E+00	8.91E+01	1.49E-02	1.55E-05	1.78E-01	1.09E+00
640	1.05E+01	8.83E+01	1.31E-02	1.28E-05	1.98E-01	9.84E-01
650	1.13E+01	8.75E+01	1.15E-02	1.06E-05	2.19E-01	8.90E-01
660	1.23E+01	8.66E+01	1.01E-02	8.73E-06	2.43E-01	8.05E-01
670	1.33E+01	8.57E+01	8.84E-03	7.21E-06	2.69E-01	7.28E-01
680	1.44E+01	8.47E+01	7.75E-03	5.95E-06	2.97E-01	6.57E-01
690	1.55E+01	8.36E+01	6.79E-03	4.91E-06	3.28E-01	5.93E-01
700	1.67E+01	8.24E+01	5.94E-03	4.05E-06	3.62E-01	5.35E-01
710	1.80E+01	8.11E+01	5.20E-03	3.34E-06	3.98E-01	4.82E-01
720	1.93E+01	7.98E+01	4.54E-03	2.75E-06	4.37E-01	4.31E-01
730	2.08E+01	7.84E+01	3.97E-03	2.26E-06	4.80E-01	3.90E-01
740	2.22E+01	7.69E+01	3.46E-03	1.86E-06	5.26E-01	3.50E-01
750	2.38E+01	7.53E+01	3.01E-03	1.53E-06	5.75E-01	3.14E-01
760	2.54E+01	7.37E+01	2.62E-03	1.26E-06	6.27E-01	2.82E-01
770	2.71E+01	7.20E+01	2.28E-03	1.03E-06	6.84E-01	2.52E-01
780	2.88E+01	7.02E+01	1.98E-03	8.43E-07	7.44E-01	2.25E-01
790	3.06E+01	6.84E+01	1.72E-03	6.90E-07	8.07E-01	2.01E-01
800	3.25E+01	6.65E+01	1.49E-03	5.64E-07	8.75E-01	1.79E-01
D-1; LAT-40, LON-45, LT-12; F-200, FAV-200, A _p -3; UT1-9						
80	5.41E-04	1.40E-03	2.08E+01	8.77E-01	1.45E-05	7.84E+01
90	6.07E-04	3.65E-01	2.01E+01	8.25E-01	9.19E-05	7.87E+01
100	9.56E-04	4.16E+00	1.75E+01	6.77E-01	1.44E-04	7.76E+01
110	2.24E-03	1.24E+01	1.24E+01	4.39E-01	2.88E-04	7.48E+01
120	4.51E-03	2.04E+01	8.10E+00	2.91E-01	3.60E-04	7.12E+01
130	1.10E-02	2.67E+01	5.85E+00	1.98E-01	3.75E-04	6.72E+01
140	2.22E-02	3.19E+01	4.79E+00	1.40E-01	3.59E-04	6.32E+01
150	3.40E-02	3.67E+01	4.12E+00	1.02E-01	3.54E-04	5.91E+01
160	4.80E-02	4.14E+01	3.58E+00	7.62E-02	3.70E-04	5.49E+01
170	6.54E-02	4.61E+01	3.12E+00	5.77E-02	4.09E-04	5.07E+01
180	8.67E-02	5.05E+01	2.72E+00	4.43E-02	4.73E-04	4.66E+01
190	1.13E-01	5.48E+01	2.36E+00	3.43E-02	5.65E-04	4.27E+01
200	1.43E-01	5.87E+01	2.06E+00	2.69E-02	6.83E-04	3.91E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.77E-01	6.24E+01	1.79E+00	2.12E-02	8.32E-04	3.56E+01
220	2.16E-01	6.57E+01	1.56E+00	1.68E-02	1.01E-03	3.25E+01
230	2.60E-01	6.88E+01	1.36E+00	1.34E-02	1.23E-03	2.96E+01
240	3.09E-01	7.16E+01	1.18E+00	1.07E-02	1.49E-03	2.69E+01
250	3.64E-01	7.41E+01	1.03E+00	8.63E-03	1.79E-03	2.45E+01
260	4.25E-01	7.64E+01	9.04E-01	6.95E-03	2.14E-03	2.23E+01
270	4.92E-01	7.84E+01	7.90E-01	5.62E-03	2.54E-03	2.03E+01
280	5.66E-01	8.03E+01	6.91E-01	4.55E-03	2.99E-03	1.84E+01
290	6.47E-01	8.20E+01	6.05E-01	3.69E-03	3.52E-03	1.68E+01
300	7.36E-01	8.35E+01	5.30E-01	3.00E-03	4.11E-03	1.52E+01
310	8.29E-01	8.50E+01	4.60E-01	2.42E-03	4.75E-03	1.37E+01
320	9.39E-01	8.62E+01	4.03E-01	1.97E-03	5.53E-03	1.25E+01
330	1.06E+00	8.73E+01	3.53E-01	1.61E-03	6.42E-03	1.13E+01
340	1.20E+00	8.82E+01	3.09E-01	1.31E-03	7.44E-03	1.03E+01
350	1.35E+00	8.91E+01	2.70E-01	1.06E-03	8.60E-03	9.30E+00
360	1.51E+00	8.98E+01	2.35E-01	8.62E-04	9.94E-03	8.42E+00
370	1.70E+00	9.05E+01	2.05E-01	7.00E-04	1.15E-02	7.61E+00
380	1.90E+00	9.10E+01	1.79E-01	5.69E-04	1.32E-02	6.88E+00
390	2.13E+00	9.15E+01	1.56E-01	4.62E-04	1.51E-02	6.22E+00
400	2.37E+00	9.19E+01	1.37E-01	3.77E-04	1.73E-02	5.63E+00
410	2.64E+00	9.21E+01	1.19E-01	3.06E-04	1.98E-02	5.08E+00
420	2.94E+00	9.24E+01	1.04E-01	2.48E-04	2.26E-02	4.58E+00
430	3.27E+00	9.25E+01	9.01E-02	2.01E-04	2.58E-02	4.13E+00
440	3.64E+00	9.25E+01	7.84E-02	1.63E-04	2.95E-02	3.72E+00
450	4.04E+00	9.25E+01	6.81E-02	1.32E-04	3.36E-02	3.35E+00
460	4.48E+00	9.24E+01	5.92E-02	1.07E-04	3.83E-02	3.01E+00
470	4.96E+00	9.22E+01	5.15E-02	8.70E-05	4.35E-02	2.71E+00
480	5.49E+00	9.20E+01	4.47E-02	7.05E-05	4.94E-02	2.44E+00
490	6.06E+00	9.17E+01	3.88E-02	5.71E-05	5.60E-02	2.19E+00
500	6.69E+00	9.12E+01	3.37E-02	1.63E-05	6.34E-02	1.97E+00
510	7.38E+00	9.08E+01	2.92E-02	3.75E-05	7.17E-02	1.76E+00
520	8.12E+00	9.02E+01	2.53E-02	3.03E-05	8.10E-02	1.58E+00
530	8.93E+00	8.95E+01	2.19E-02	2.45E-05	9.14E-02	1.42E+00
540	9.81E+00	8.88E+01	1.90E-02	1.99E-05	1.03E-01	1.27E+00
550	1.08E+01	8.80E+01	1.64E-02	1.61E-05	1.16E-01	1.14E+00
560	1.18E+01	8.71E+01	1.42E-02	1.30E-05	1.30E-01	1.02E+00
570	1.29E+01	8.61E+01	1.23E-02	1.05E-05	1.46E-01	9.08E-01
580	1.41E+01	8.50E+01	1.06E-02	8.46E-06	1.63E-01	8.11E-01
590	1.53E+01	8.38E+01	9.13E-03	6.82E-06	1.83E-01	7.23E-01
600	1.67E+01	8.25E+01	7.87E-03	5.50E-06	2.04E-01	6.44E-01
610	1.81E+01	8.11E+01	6.77E-03	4.43E-06	2.27E-01	5.73E-01
620	1.97E+01	7.96E+01	5.82E-03	3.56E-06	2.52E-01	5.09E-01
630	2.13E+01	7.80E+01	5.00E-03	2.86E-06	2.80E-01	4.52E-01
640	2.30E+01	7.63E+01	4.29E-03	2.30E-06	3.10E-01	4.01E-01
650	2.48E+01	7.45E+01	3.67E-03	1.84E-06	3.42E-01	3.54E-01
660	2.66E+01	7.27E+01	3.14E-03	1.48E-06	3.77E-01	3.13E-01
670	2.86E+01	7.07E+01	2.68E-03	1.18E-06	4.15E-01	2.76E-01
680	3.06E+01	6.87E+01	2.28E-03	9.42E-07	1.56E-01	2.43E-01
690	3.27E+01	6.66E+01	1.94E-03	7.51E-07	4.99E-01	2.14E-01
700	3.49E+01	6.44E+01	1.65E-03	5.98E-07	5.45E-01	1.88E-01

λ , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N/S, %
710	3.71E+01	6.21E+01	1.40E-03	1.75E-07	5.94E-01	1.64E-01
720	3.94E+01	5.98E+01	1.19E-03	3.77E-07	6.45E-01	1.44E-01
730	4.17E+01	5.75E+01	1.00E-03	2.99E-07	7.00E-01	1.25E-01
740	4.40E+01	5.51E+01	8.45E-04	2.37E-07	7.57E-01	1.09E-01
750	4.63E+01	5.28E+01	7.11E-04	1.87E-07	8.16E-01	9.50E-02
760	4.87E+01	5.04E+01	5.98E-04	1.47E-07	8.78E-01	8.24E-02
770	5.10E+01	4.80E+01	5.01E-04	1.16E-07	9.42E-01	7.14E-02
780	5.33E+01	4.56E+01	4.20E-04	9.11E-08	1.01E+00	6.17E-02
790	5.56E+01	4.33E+01	3.51E-04	7.15E-08	1.08E+00	5.32E-02
800	5.79E+01	4.10E+01	2.93E-04	5.60E-08	1.15E+00	4.58E-02

D-1; LAT-80; LON-45; LT-12; F-200; FAV-200; A_p-3; UTI-9

80	5.37E-04	1.45E-03	2.08E+01	9.02E-01	1.38E-05	7.83E+01
90	5.90E-04	3.78E-01	2.03E+01	8.64E-01	8.52E-05	7.85E+01
100	9.52E-04	4.35E+00	1.78E+01	7.19E-01	1.45E-04	7.71E+01
110	2.38E-03	1.27E+01	1.31E+01	4.92E-01	2.96E-04	7.38E+01
120	6.72E-03	2.18E+01	8.76E+00	3.16E-01	4.47E-04	6.91E+01
130	2.40E-02	2.91E+01	6.41E+00	2.15E-01	5.00E-04	6.42E+01
140	5.81E-02	3.50E+01	5.22E+00	1.54E-01	4.79E-04	5.95E+01
150	9.03E-02	4.02E+01	4.45E+00	1.14E-01	4.49E-04	5.51E+01
160	1.24E-01	4.51E+01	3.86E+00	8.63E-02	4.37E-04	5.08E+01
170	1.61E-01	4.96E+01	3.36E+00	6.66E-02	4.47E-04	4.68E+01
180	2.03E-01	5.39E+01	2.93E+00	5.19E-02	4.81E-04	4.29E+01
190	2.55E-01	5.80E+01	2.55E+00	4.07E-02	5.40E-04	3.92E+01
200	3.13E-01	6.18E+01	2.21E+00	3.20E-02	6.23E-04	3.57E+01
210	3.79E-01	6.53E+01	1.92E+00	2.52E-02	7.32E-04	3.24E+01
220	4.55E-01	6.86E+01	1.66E+00	1.98E-02	8.71E-04	2.93E+01
230	5.41E-01	7.16E+01	1.43E+00	1.56E-02	1.04E-03	2.64E+01
240	6.40E-01	7.43E+01	1.23E+00	1.23E-02	1.25E-03	2.38E+01
250	7.52E-01	7.68E+01	1.06E+00	9.65E-03	1.50E-03	2.14E+01
260	8.80E-01	7.90E+01	9.06E-01	7.58E-03	1.80E-03	1.92E+01
270	1.03E+00	8.10E+01	7.76E-01	5.95E-03	2.16E-03	1.71E+01
280	1.19E+00	8.28E+01	6.63E-01	4.66E-03	2.58E-03	1.53E+01
290	1.38E+00	8.44E+01	5.66E-01	3.65E-03	3.08E-03	1.37E+01
300	1.59E+00	8.58E+01	4.83E-01	2.85E-03	3.66E-03	1.22E+01
310	1.81E+00	8.71E+01	4.07E-01	2.21E-03	4.30E-03	1.07E+01
320	2.08E+00	8.81E+01	3.47E-01	1.73E-03	5.10E-03	9.51E+00
330	2.39E+00	8.89E+01	2.95E-01	1.35E-03	6.04E-03	8.45E+00
340	2.73E+00	8.95E+01	2.51E-01	1.05E-03	7.13E-03	7.49E+00
350	3.12E+00	9.00E+01	2.13E-01	8.22E-04	8.41E-03	6.64E+00
360	3.56E+00	9.04E+01	1.81E-01	6.41E-04	9.89E-03	5.87E+00
370	4.05E+00	9.06E+01	1.53E-01	5.00E-04	1.16E-02	5.19E+00
380	4.59E+00	9.07E+01	1.30E-01	3.89E-04	1.36E-02	4.58E+00
390	5.20E+00	9.06E+01	1.10E-01	3.03E-04	1.59E-02	4.04E+00
400	5.88E+00	9.05E+01	9.26E-02	2.35E-04	1.85E-02	3.56E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	6.64E+00	9.01E+01	7.82E-02	1.83E-04	2.16E-02	3.13E+00
420	7.48E+00	8.97E+01	6.59E-02	1.42E-04	2.51E-02	2.75E+00
430	8.41E+00	8.91E+01	5.55E-02	1.10E-04	2.91E-02	2.41E+00
440	9.43E+00	8.84E+01	4.67E-02	8.53E-05	3.36E-02	2.12E+00
450	1.06E+01	8.75E+01	3.93E-02	6.60E-05	3.89E-02	1.85E+00
460	1.18E+01	8.65E+01	3.30E-02	5.11E-05	4.48E-02	1.62E+00
470	1.32E+01	8.53E+01	2.76E-02	3.95E-05	5.15E-02	1.42E+00
480	1.46E+01	8.40E+01	2.31E-02	3.05E-05	5.90E-02	1.23E+00
490	1.62E+01	8.26E+01	1.93E-02	2.35E-05	6.75E-02	1.07E+00
500	1.80E+01	8.10E+01	1.61E-02	1.81E-05	7.71E-02	9.33E-01
510	1.99E+01	7.92E+01	1.34E-02	1.39E-05	8.77E-02	8.09E-01
520	2.19E+01	7.73E+01	1.12E-02	1.06E-05	9.95E-02	7.00E-01
530	2.40E+01	7.53E+01	9.26E-03	8.15E-06	1.13E-01	6.04E-01
540	2.63E+01	7.31E+01	7.66E-03	6.22E-06	1.27E-01	5.20E-01
550	2.87E+01	7.08E+01	6.33E-03	4.75E-06	1.43E-01	4.47E-01
560	3.12E+01	6.83E+01	5.21E-03	3.61E-06	1.60E-01	3.83E-01
570	3.38E+01	6.57E+01	4.28E-03	2.74E-06	1.78E-01	3.27E-01
580	3.65E+01	6.31E+01	3.51E-03	2.07E-06	1.98E-01	2.79E-01
590	3.92E+01	6.03E+01	2.86E-03	1.57E-06	2.20E-01	2.37E-01
600	4.21E+01	5.75E+01	2.33E-03	1.18E-06	2.43E-01	2.01E-01
610	4.50E+01	5.46E+01	1.90E-03	8.86E-07	2.67E-01	1.70E-01
620	4.79E+01	5.17E+01	1.54E-03	6.64E-07	2.93E-01	1.43E-01
630	5.08E+01	4.88E+01	1.24E-03	4.96E-07	3.20E-01	1.20E-01
640	5.36E+01	4.59E+01	9.99E-04	3.70E-07	3.48E-01	1.00E-01
650	5.65E+01	4.31E+01	8.03E-04	2.75E-07	3.77E-01	8.39E-02
660	5.93E+01	4.02E+01	6.43E-04	2.04E-07	4.08E-01	6.99E-02
670	6.20E+01	3.75E+01	5.14E-04	1.51E-07	4.39E-01	5.80E-02
680	6.46E+01	3.48E+01	4.10E-04	1.11E-07	4.71E-01	4.80E-02
690	6.72E+01	3.23E+01	3.26E-04	8.20E-08	5.03E-01	3.97E-02
700	6.96E+01	2.98E+01	2.58E-04	6.03E-08	5.37E-01	3.27E-02
710	7.19E+01	2.75E+01	2.05E-04	4.43E-08	5.71E-01	2.69E-02
720	7.41E+01	2.53E+01	1.62E-04	3.24E-08	6.05E-01	2.21E-02
730	7.61E+01	2.32E+01	1.27E-04	2.37E-08	6.39E-01	1.81E-02
740	7.81E+01	2.12E+01	1.00E-04	1.73E-08	6.74E-01	1.48E-02
750	7.99E+01	1.94E+01	7.89E-05	1.26E-08	7.10E-01	1.21E-02
760	8.15E+01	1.77E+01	6.20E-05	9.20E-09	7.45E-01	9.84E-03
770	8.31E+01	1.61E+01	4.86E-05	6.69E-09	7.81E-01	8.01E-03
780	8.45E+01	1.47E+01	3.81E-05	4.87E-09	8.17E-01	6.52E-03
790	8.58E+01	1.33E+01	2.98E-05	3.54E-09	8.53E-01	5.29E-03
800	8.70E+01	1.21E+01	2.33E-05	2.57E-09	8.89E-01	4.30E-03
D-1; LAT-50; LON-45; LT-12; F-200; FAV-200; A _p -3; UTI-9						
80	5.43E-04	1.20E-03	2.08E+01	9.34E-01	1.32E-05	7.83E+01
90	6.09E-04	3.04E-01	2.02E+01	9.16E-01	7.98E-05	7.86E+01
100	9.55E-04	3.40E+00	1.79E+01	8.06E-01	1.17E-04	7.79E+01

z, ат	He S, %	O/S, %	O ₂ /S, %	Ar S, %	H/S, %	N, S, %
110	2.30E-03	1.02E+01	1.31E+01	5.71E-01	2.34E-04	7.61E+01
120	4.75E-03	1.81E+01	8.71E+00	3.81E-01	3.53E-04	7.28E+01
130	6.23E-03	2.33E+01	6.61E+00	2.97E-01	3.32E-04	6.98E+01
140	8.55E-03	2.74E+01	5.58E+00	2.37E-01	2.99E-04	6.68E+01
150	1.22E-02	3.10E+01	4.94E+00	1.92E-01	2.77E-04	6.38E+01
160	1.68E-02	3.45E+01	4.46E+00	1.57E-01	2.71E-04	6.09E+01
170	2.23E-02	3.77E+01	4.05E+00	1.30E-01	2.81E-04	5.81E+01
183	2.87E-02	4.08E+01	3.69E+00	1.09E-01	3.05E-04	5.54E+01
190	3.63E-02	4.39E+01	3.36E+00	9.13E-02	3.47E-04	5.27E+01
200	4.47E-02	4.68E+01	3.07E+00	7.71E-02	4.01E-04	5.01E+01
210	5.42E-02	4.96E+01	2.81E+00	6.53E-02	4.71E-04	4.75E+01
220	6.50E-02	5.23E+01	2.57E+00	5.55E-02	5.56E-04	4.51E+01
230	7.70E-02	5.49E+01	2.34E+00	4.72E-02	6.58E-04	4.27E+01
240	9.04E-02	5.74E+01	2.14E+00	4.02E-02	7.79E-04	4.03E+01
250	1.05E-01	5.98E+01	1.95E+00	3.44E-02	9.19E-04	3.81E+01
260	1.22E-01	6.22E+01	1.78E+00	2.93E-02	1.08E-03	3.59E+01
270	1.40E-01	6.44E+01	1.62E+00	2.50E-02	1.27E-03	3.38E+01
280	1.60E-01	6.65E+01	1.48E+00	2.14E-02	1.48E-03	3.18E+01
290	1.82E-01	6.86E+01	1.34E+00	1.82E-02	1.72E-03	2.98E+01
300	2.06E-01	7.06E+01	1.22E+00	1.56E-02	1.99E-03	2.79E+01
310	2.34E-01	7.24E+01	1.11E+00	1.33E-02	2.31E-03	2.62E+01
320	2.63E-01	7.42E+01	1.01E+00	1.13E-02	2.66E-03	2.45E+01
330	2.96E-01	7.59E+01	9.10E-01	9.63E-03	3.05E-03	2.29E+01
340	3.31E-01	7.75E+01	8.23E-01	8.19E-03	3.50E-03	2.13E+01
350	3.70E-01	7.91E+01	7.43E-01	6.96E-03	4.00E-03	1.98E+01
360	4.13E-01	8.05E+01	6.70E-01	5.96E-03	4.57E-03	1.84E+01
370	4.60E-01	8.18E+01	6.03E-01	5.01E-03	5.20E-03	1.71E+01
380	5.11E-01	8.31E+01	5.43E-01	4.24E-03	5.91E-03	1.59E+01
390	5.67E-01	8.42E+01	4.88E-01	3.59E-03	6.71E-03	1.47E+01
400	6.29E-01	8.53E+01	4.39E-01	3.04E-03	7.62E-03	1.36E+01
410	6.96E-01	8.63E+01	3.94E-01	2.57E-03	8.62E-03	1.26E+01
420	7.69E-01	8.72E+01	3.53E-01	2.17E-03	9.74E-03	1.16E+01
430	8.49E-01	8.81E+01	3.17E-01	1.81E-03	1.10E-02	1.08E+01
440	9.36E-01	8.88E+01	2.84E-01	1.55E-03	1.24E-02	9.93E+00
450	1.03E+00	8.95E+01	2.55E-01	1.31E-03	1.39E-02	9.17E+00
460	1.13E+00	9.02E+01	2.28E-01	1.11E-03	1.57E-02	8.45E+00
470	1.24E+00	9.07E+01	2.04E-01	9.37E-04	1.76E-02	7.79E+00
480	1.37E+00	9.12E+01	1.83E-01	7.91E-04	1.97E-02	7.18E+00
490	1.50E+00	9.17E+01	1.64E-01	6.68E-04	2.21E-02	6.62E+00
500	1.64E+00	9.21E+01	1.46E-01	5.64E-04	2.47E-02	6.09E+00
510	1.80E+00	9.24E+01	1.31E-01	4.76E-04	2.77E-02	5.61E+00
520	1.96E+00	9.27E+01	1.17E-01	4.02E-04	3.09E-02	5.16E+00
530	2.14E+00	9.30E+01	1.05E-01	3.39E-04	3.45E-02	4.75E+00
540	2.34E+00	9.32E+01	9.35E-02	2.86E-04	3.85E-02	4.37E+00
550	2.56E+00	9.33E+01	8.36E-02	2.42E-04	4.29E-02	4.01E+00
560	2.79E+00	9.34E+01	7.47E-02	2.04E-04	4.78E-02	3.69E+00
570	3.03E+00	9.35E+01	6.67E-02	1.72E-04	5.32E-02	3.39E+00
580	3.30E+00	9.35E+01	5.96E-02	1.45E-04	5.91E-02	3.12E+00
590	3.59E+00	9.34E+01	5.32E-02	1.23E-04	6.57E-02	2.86E+00
600	3.91E+00	9.33E+01	4.75E-02	1.04E-04	7.29E-02	2.63E+00

z , км	He/S, %	O ⁺ /S, %	O ₂ /S, %	Ar/S, %	Ne/S, %	N ₂ /S, %
610	4.24E+00	9.32E+01	4.24E-02	8.74E-05	8.09E-02	2.41E+00
620	4.61E+00	9.31E+01	3.79E-02	7.38E-05	8.97E-02	2.22E+00
630	5.00E+00	9.28E+01	3.38E-02	6.23E-05	9.93E-02	2.03E+00
640	5.41E+00	9.26E+01	3.02E-02	5.26E-05	1.10E-01	1.87E+00
650	5.86E+00	9.23E+01	2.69E-02	4.44E-05	1.22E-01	1.71E+00
660	6.35E+00	9.19E+01	2.40E-02	3.75E-05	1.34E-01	1.57E+00
670	6.86E+00	9.15E+01	2.14E-02	3.16E-05	1.48E-01	1.44E+00
680	7.42E+00	9.11E+01	1.91E-02	2.67E-05	1.64E-01	1.32E+00
690	8.01E+00	9.06E+01	1.70E-02	2.25E-05	1.80E-01	1.21E+00
700	8.64E+00	9.00E+01	1.52E-02	1.90E-05	1.98E-01	1.11E+00
710	9.31E+00	8.94E+01	1.35E-02	1.60E-05	2.18E-01	1.01E+00
720	1.00E+01	8.88E+01	1.20E-02	1.35E-05	2.40E-01	9.26E-01
730	1.08E+01	8.81E+01	1.07E-02	1.14E-05	2.64E-01	8.47E-01
740	1.16E+01	8.73E+01	9.53E-03	9.62E-06	2.89E-01	7.75E-01
750	1.25E+01	8.65E+01	8.47E-03	8.10E-06	3.17E-01	7.08E-01
760	1.34E+01	8.56E+01	7.53E-03	6.83E-06	3.47E-01	6.47E-01
770	1.43E+01	8.47E+01	6.70E-03	5.75E-06	3.79E-01	5.90E-01
780	1.53E+01	8.37E+01	5.95E-03	4.84E-06	4.14E-01	5.38E-01
790	1.64E+01	8.27E+01	5.28E-03	4.08E-06	4.52E-01	4.91E-01
800	1.75E+01	8.15E+01	4.68E-03	3.43E-06	4.93E-01	4.47E-01

D—1; LAT 80; LON—45; LT—12; F—200; FAV—200; A_p—3; UT1—9

80	5.43E-04	1.00E-03	2.08E+01	9.64E-01	1.28E-05	7.82E+01
90	6.03E-04	2.48E-01	2.03E+01	9.66E-01	7.61E-03	7.85E+01
100	9.55E-04	2.73E+00	1.83E+01	8.76E-01	1.14E-04	7.81E+01
110	2.37E-03	7.91E+00	1.43E+01	6.68E-01	2.28E-04	7.72E+01
120	5.00E-03	1.38E+01	1.02E+01	4.86E-01	3.67E-04	7.55E+01
130	4.98E-03	1.82E+01	8.07E+00	3.89E-01	4.02E-04	7.34E+01
140	5.11E-03	2.13E+01	7.00E+00	3.28E-01	3.66E-04	7.14E+01
150	6.82E-03	2.38E+01	6.37E+00	2.83E-01	3.25E-04	6.95E+01
160	9.23E-03	2.60E+01	5.91E+00	2.47E-01	3.01E-04	6.78E+01
170	1.21E-02	2.81E+01	5.52E+00	2.16E-01	2.96E-04	6.62E+01
180	1.54E-02	3.01E+01	5.17E+00	1.89E-01	3.09E-04	6.46E+01
190	1.93E-02	3.20E+01	4.86E+00	1.66E-01	3.38E-04	6.30E+01
200	2.37E-02	3.39E+01	4.57E+00	1.46E-01	3.83E-04	6.13E+01
210	2.86E-02	3.59E+01	4.30E+00	1.28E-01	4.42E-04	5.97E+01
220	3.43E-02	3.79E+01	4.04E+00	1.13E-01	5.17E-04	5.80E+01
230	4.08E-02	3.99E+01	3.79E+00	9.94E-02	6.09E-04	5.62E+01
240	4.81E-02	4.19E+01	3.56E+00	8.77E-02	7.20E-04	5.44E+01
250	5.63E-02	4.39E+01	3.33E+00	7.74E-02	8.51E-04	5.26E+01
260	6.55E-02	4.60E+01	3.12E+00	6.81E-02	1.00E-03	5.07E+01
270	7.58E-02	4.81E+01	2.92E+00	6.00E-02	1.18E-03	4.89E+01
280	8.73E-02	5.02E+01	2.72E+00	5.27E-02	1.38E-03	4.70E+01
290	1.00E-01	5.23E+01	2.53E+00	4.63E-02	1.62E-03	4.51E+01
300	1.14E-01	5.43E+01	2.36E+00	4.07E-02	1.89E-03	4.31E+01

$Z, \text{ н.м.}$	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	1.32E-01	5.59E+01	2.21E+00	3.61E-02	2.22E-03	4.17E+01
320	1.49E-01	5.80E+01	2.05E+00	3.15E-02	2.56E-03	3.97E+01
330	1.68E-01	6.01E+01	1.90E+00	2.76E-02	2.95E-03	3.78E+01
340	1.89E-01	6.21E+01	1.75E+00	2.41E-02	3.39E-03	3.59E+01
350	2.13E-01	6.41E+01	1.61E+00	2.10E-02	3.89E-03	3.40E+01
360	2.38E-01	6.60E+01	1.49E+00	1.83E-02	4.45E-03	3.22E+01
370	2.66E-01	6.78E+01	1.37E+00	1.59E-02	5.08E-03	3.05E+01
380	2.97E-01	6.96E+01	1.26E+00	1.38E-02	5.78E-03	2.88E+01
390	3.31E-01	7.13E+01	1.15E+00	1.20E-02	6.57E-03	2.72E+01
400	3.67E-01	7.29E+01	1.06E+00	1.04E-02	7.45E-03	2.56E+01
410	4.07E-01	7.45E+01	9.69E-01	9.05E-03	8.43E-03	2.41E+01
420	4.51E-01	7.60E+01	8.87E-01	7.84E-03	9.52E-03	2.27E+01
430	4.98E-01	7.74E+01	8.10E-01	6.79E-03	1.07E-02	2.13E+01
440	5.49E-01	7.87E+01	7.40E-01	5.88E-03	1.21E-02	2.00E+01
450	6.05E-01	8.00E+01	6.75E-01	5.08E-03	1.36E-02	1.87E+01
460	6.65E-01	8.12E+01	6.16E-01	4.39E-03	1.52E-02	1.75E+01
470	7.31E-01	8.23E+01	5.61E-01	3.79E-03	1.71E-02	1.64E+01
480	8.02E-01	8.33E+01	5.11E-01	3.27E-03	1.91E-02	1.53E+01
490	8.78E-01	8.43E+01	4.65E-01	2.83E-03	2.14E-02	1.43E+01
500	9.61E-01	8.52E+01	4.23E-01	2.44E-03	2.38E-02	1.34E+01
510	1.05E+00	8.61E+01	3.84E-01	2.10E-03	2.66E-02	1.25E+01
520	1.15E+00	8.68E+01	3.49E-01	1.81E-03	2.96E-02	1.16E+01
530	1.25E+00	8.75E+01	3.17E-01	1.56E-03	3.29E-02	1.08E+01
540	1.36E+00	8.82E+01	2.87E-01	1.34E-03	3.66E-02	1.01E+01
550	1.48E+00	8.88E+01	2.61E-01	1.16E-03	4.06E-02	9.41E+00
560	1.61E+00	8.93E+01	2.37E-01	9.97E-04	4.50E-02	8.76E+00
570	1.75E+00	8.98E+01	2.14E-01	8.58E-04	4.99E-02	8.15E+00
580	1.90E+00	9.03E+01	1.94E-01	7.38E-04	5.53E-02	7.58E+00
590	2.07E+00	9.07E+01	1.76E-01	6.35E-04	6.11E-02	7.05E+00
600	2.24E+00	9.10E+01	1.59E-01	5.47E-04	6.75E-02	6.55E+00
610	2.43E+00	9.13E+01	1.44E-01	4.70E-04	7.46E-02	6.08E+00
620	2.63E+00	9.15E+01	1.31E-01	4.05E-04	8.23E-02	5.65E+00
630	2.84E+00	9.17E+01	1.18E-01	3.48E-04	9.07E-02	5.25E+00
640	3.07E+00	9.19E+01	1.07E-01	3.00E-04	9.99E-02	4.87E+00
650	3.31E+00	9.20E+01	9.69E-02	2.58E-04	1.10E-01	4.52E+00
660	3.58E+00	9.20E+01	8.77E-02	2.22E-04	1.21E-01	4.19E+00
670	3.86E+00	9.20E+01	7.93E-02	1.91E-04	1.33E-01	3.89E+00
680	4.16E+00	9.20E+01	7.17E-02	1.64E-04	1.46E-01	3.61E+00
690	4.48E+00	9.20E+01	6.48E-02	1.41E-04	1.60E-01	3.34E+00
700	4.82E+00	9.18E+01	5.86E-02	1.21E-04	1.76E-01	3.10E+00
710	5.19E+00	9.17E+01	5.30E-02	1.04E-04	1.93E-01	2.87E+00
720	5.58E+00	9.15E+01	4.79E-02	8.97E-05	2.11E-01	2.66E+00
730	5.99E+00	9.13E+01	4.33E-02	7.72E-05	2.31E-01	2.46E+00
740	6.43E+00	9.10E+01	3.91E-02	6.63E-05	2.52E-01	2.28E+00
750	6.90E+00	9.07E+01	3.53E-02	5.71E-05	2.76E-01	2.11E+00
760	7.39E+00	9.03E+01	3.19E-02	4.91E-05	3.01E-01	1.95E+00
770	7.92E+00	8.99E+01	2.88E-02	4.22E-05	3.29E-01	1.81E+00
780	8.48E+00	8.95E+01	2.60E-02	3.63E-05	3.58E-01	1.67E+00
790	9.07E+00	8.90E+01	2.34E-02	3.12E-05	3.90E-01	1.55E+00
800	9.70E+00	8.84E+01	2.11E-02	2.68E-05	4.25E-01	1.43E+00

Широтные вариации состава при низкой солнечной активности для условий
весеннего равноденствия в северном и осеннего в южном полушариях

z , °	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D—82; LAT 0; LON—45; LT 12; F 70; FΔV—70, A _p —3; UT1—9						
80	5.52E-04	1.20E-03	2.08E+01	9.01E-01	1.84E-05	7.83E+01
90	6.13E-04	3.04E-01	2.03E+01	8.62E-01	1.25E-04	7.85E+01
100	9.54E-04	3.38E+00	1.83E+01	7.33E-01	2.09E-04	7.76E+01
110	2.52E-03	1.03E+01	1.39E+01	4.81E-01	5.42E-04	7.53E+01
120	7.47E-03	1.87E+01	9.64E+00	2.92E-01	1.24E-03	7.14E+01
130	1.57E-02	2.53E+01	7.30E+00	1.95E-01	1.74E-03	6.71E+01
140	2.73E-02	3.09E+01	6.01E+00	1.37E-01	2.10E-03	6.29E+01
150	1.20E-02	3.60E+01	5.14E+00	9.92E-02	2.42E-03	5.87E+01
160	6.07E-02	4.09E+01	4.44E+00	7.34E-02	2.82E-03	5.45E+01
170	8.45E-02	4.56E+01	3.84E+00	5.51E-02	3.38E-03	5.04E+01
180	1.14E-01	5.03E+01	3.31E+00	4.16E-02	4.16E-03	4.63E+01
190	1.52E-01	5.48E+01	2.85E+00	3.14E-02	5.22E-03	4.22E+01
200	1.98E-01	5.91E+01	2.43E+00	2.38E-02	6.66E-03	3.83E+01
210	2.55E-01	6.32E+01	2.06E+00	1.79E-02	8.55E-03	3.45E+01
220	3.24E-01	6.71E+01	1.74E+00	1.35E-02	1.10E-02	3.09E+01
230	4.08E-01	7.07E+01	1.46E+00	1.01E-02	1.42E-02	2.75E+01
240	5.09E-01	7.40E+01	1.22E+00	7.51E-03	1.82E-02	2.43E+01
250	6.30E-01	7.70E+01	1.02E+00	5.58E-03	2.33E-02	2.14E+01
260	7.71E-01	7.96E+01	8.42E-01	4.12E-03	2.98E-02	1.87E+01
270	9.16E-01	8.20E+01	6.94E-01	3.04E-03	3.78E-02	1.63E+01
280	1.15E-00	8.41E+01	5.70E-01	2.23E-03	4.77E-02	1.42E+01
290	1.39E+00	8.58E+01	4.67E-01	1.63E-03	5.00E-02	1.23E+01
300	1.67E+00	8.73E+01	3.81E-01	1.19E-03	7.51E-02	1.06E+01
310	2.01E+00	8.85E+01	3.11E-01	8.72E-04	9.41E-02	9.12E+00
320	2.39E+00	8.94E+01	2.52E-01	6.33E-04	1.17E-01	7.81E+00
330	2.84E+00	9.01E+01	2.04E-01	4.59E-04	1.45E-01	6.68E+00
340	3.37E+00	9.06E+01	1.65E-01	3.33E-04	1.78E-01	5.70E+00
350	3.97E+00	9.08E+01	1.33E-01	2.40E-04	2.19E-01	4.85E+00
360	4.68E+00	9.08E+01	1.07E-01	1.74E-04	2.69E-01	4.12E+00
370	5.49E+00	9.06E+01	8.58E-02	1.25E-04	3.29E-01	3.49E+00
380	6.42E+00	9.01E+01	6.88E-02	9.00E-05	4.01E-01	2.96E+00
390	7.49E+00	8.95E+01	5.51E-02	6.47E-05	4.87E-01	2.50E+00
400	8.71E+00	8.86E+01	4.40E-02	4.64E-05	5.89E-01	2.10E+00
410	1.01E+01	8.74E+01	3.50E-02	3.32E-05	7.11E-01	1.77E+00
420	1.17E+01	8.60E+01	2.78E-02	2.37E-05	8.54E-01	1.48E+00
430	1.34E+01	8.43E+01	2.21E-02	1.69E-05	1.02E+00	1.24E+00
440	1.54E+01	8.24E+01	1.74E-02	1.20E-05	1.22E+00	1.03E+00
450	1.75E+01	8.02E+01	1.37E-02	8.50E-06	1.45E+00	8.57E-01
460	1.99E+01	7.77E+01	1.08E-02	6.01E-06	1.71E+00	7.09E-01
470	2.25E+01	7.49E+01	8.42E-03	4.23E-06	2.01E+00	5.84E-01
480	2.52E+01	7.19E+01	6.55E-03	2.96E-06	2.35E+00	4.79E-01
490	2.82E+01	6.87E+01	5.08E-03	2.07E-06	2.72E+00	3.91E-01
500	3.13E+01	6.52E+01	3.91E-03	1.44E-06	3.15E+00	3.18E-01

Продолжение табл. 4

z, km	He/S, %	O/S, %	O ₂ /S, %	Ne/S, %	H/S, %	N ₂ /S, %
510	3.45E+01	6.16E+01	3.00E-03	9.92E-07	3.61E+00	2.57E-01
520	3.79E+01	5.78E+01	2.29E-03	6.82E-07	4.11E+00	2.06E-01
530	4.13E+01	5.39E+01	1.74E-03	4.67E-07	4.66E+00	1.65E-01
540	4.46E+01	5.00E+01	1.31E-03	3.18E-07	5.24E+00	1.31E-01
550	4.80E+01	4.61E+01	9.83E-04	2.15E-07	5.85E+00	1.03E-01
560	5.12E+01	4.22E+01	7.33E-04	1.45E-07	6.50E+00	8.11E-02
570	5.44E+01	3.84E+01	5.44E-04	9.70E-08	7.16E+00	6.33E-02
580	5.74E+01	3.48E+01	4.02E-04	6.47E-08	7.85E+00	4.92E-02
590	6.01E+01	3.13E+01	2.95E-04	4.29E-08	8.55E+00	3.80E-02
600	6.27E+01	2.80E+01	2.16E-04	2.84E-08	9.26E+00	2.93E-02
610	6.50E+01	2.50E+01	1.57E-04	1.87E-08	9.97E+00	2.24E-02
620	6.71E+01	2.22E+01	1.14E-04	1.23E-08	1.07E+01	1.71E-02
630	6.90E+01	1.96E+01	8.25E-05	8.02E-09	1.14E+01	1.30E-02
640	7.06E+01	1.73E+01	5.95E-05	5.23E-09	1.21E+01	9.86E-03
650	7.20E+01	1.52E+01	4.28E-05	3.40E-09	1.28E+01	7.45E-03
660	7.32E+01	1.33E+01	3.07E-05	2.21E-09	1.35E+01	5.62E-03
670	7.42E+01	1.16E+01	2.20E-05	1.43E-09	1.42E+01	4.23E-03
680	7.50E+01	1.01E+01	1.57E-05	9.28E-10	1.49E+01	3.18E-03
690	7.56E+01	8.78E+00	1.12E-05	6.00E-10	1.56E+01	2.38E-03
700	7.61E+01	7.62E+00	7.99E-06	3.88E-10	1.63E+01	1.78E-03
710	7.64E+01	6.60E+00	5.69E-06	2.50E-10	1.70E+01	1.33E-03
720	7.66E+01	5.72E+00	4.05E-06	1.62E-10	1.77E+01	9.98E-04
730	7.67E+01	4.95E+00	2.88E-06	1.04E-10	1.84E+01	7.45E-04
740	7.67E+01	4.27E+00	2.05E-06	6.73E-11	1.90E+01	5.57E-04
750	7.66E+01	3.69E+00	1.46E-06	4.34E-11	1.97E+01	4.15E-04
760	7.64E+01	3.18E+00	1.04E-06	2.80E-11	2.04E+01	3.10E-04
770	7.62E+01	2.75E+00	7.37E-07	1.81E-11	2.11E+01	2.31E-04
780	7.58E+01	2.37E+00	5.24E-07	1.17E-11	2.18E+01	1.73E-04
790	7.55E+01	2.04E+00	3.73E-07	7.55E-12	2.25E+01	1.29E-04
800	7.51E+01	1.76E+00	2.65E-07	1.88E-12	2.32E+01	9.61E-05

D-82; LAT-40; ION-45; LT-12; F-70; FAV-70; A_p-3, UT1-9

80	5.40E-04	1.22E-03	2.08E-01	8.88E-01	1.79E-05	7.83E+01
90	6.05E-04	3.10E-01	2.03E+01	8.40E-01	1.26E-04	7.86E+01
100	9.57E-04	3.48E+00	1.81E+01	6.98E-01	2.25E-04	7.78E+01
110	2.41E-03	1.03E-01	1.35E+01	4.66E-01	5.56E-04	7.57E+01
120	6.55E-03	1.83E+01	9.21E+00	2.85E-01	1.15E-03	7.22E+01
130	1.54E-02	2.50E+01	6.79E+00	1.84E-01	1.67E-03	6.80E+01
140	2.89E-02	3.08E+01	5.53E+00	1.25E-01	2.07E-03	6.35E+01
150	4.54E-02	3.60E+01	4.69E+00	8.83E-02	2.45E-03	5.92E+01
160	6.61E-02	4.10E+01	4.04E+00	6.42E-02	2.90E-03	5.48E+01
170	9.24E-02	4.58E+01	3.48E+00	4.75E-02	3.51E-03	5.05E+01
180	1.25E-01	5.05E+01	2.99E+00	3.55E-02	4.35E-03	4.63E+01
190	1.67E-01	5.51E+01	2.57E+00	2.67E-02	5.18E-03	4.22E+01
200	2.17E-01	5.94E+01	2.19E+00	2.01E-02	7.00E-03	3.81E+01

Z_{KM}	H/S, %	O/S, %	Os/S, %	As/S, %	H/S, %	N ₂ /S, %
210	2.79E-01	6.35E+01	1.86E+00	1.51E-02	8.99E-03	3.43E+01
220	3.54E-01	6.74E+01	1.57E+00	1.14E-02	1.16E-02	3.07E+01
230	4.45E-01	7.10E+01	1.31E+00	8.51E-03	1.49E-02	2.73E+01
240	5.54E-01	7.42E+01	1.10E+00	6.34E-03	1.91E-02	2.41E+01
250	6.84E-01	7.72E+01	9.13E-01	4.71E-03	2.44E-02	2.12E+01
260	8.39E-01	7.98E+01	7.56E-01	3.49E-03	3.10E-02	1.86E+01
270	1.02E+00	8.21E+01	6.24E-01	2.58E-03	3.92E-02	1.62E+01
280	1.24E+00	8.41E+01	5.13E-01	1.90E-03	4.94E-02	1.41E+01
290	1.49E+00	8.58E-01	4.20E-01	1.39E-03	6.19E-02	1.22E+01
300	1.79E+00	8.73E+01	3.43E-01	1.02E-03	7.73E-02	1.05E+01
310	2.14E+00	8.84E+01	2.80E-01	7.46E-04	9.64E-02	9.07E+00
320	2.55E+00	8.93E+01	2.28E-01	5.44E-04	1.19E-01	7.78E+00
330	3.02E+00	9.00E+01	1.85E-01	3.95E-04	1.47E-01	6.66E+00
340	3.57E+00	9.04E+01	1.49E-01	2.87E-04	1.81E-01	5.69E+00
350	4.21E+00	9.06E+01	1.21E-01	2.08E-04	2.22E-01	4.85E+00
360	4.94E+00	9.06E+01	9.74E-02	1.51E-04	2.72E-01	4.13E+00
370	5.79E+00	9.03E+01	7.84E-02	1.09E-04	3.32E-01	3.50E+00
380	6.75E+00	8.98E+01	6.30E-02	7.88E-05	4.03E-01	2.97E+00
390	7.86E+00	8.91E+01	5.05E-02	5.68E-05	4.88E-01	2.51E+00
400	9.12E+00	8.81E+01	4.01E-02	4.09E-05	5.89E-01	2.12E+00
410	1.05E+01	8.69E+01	3.22E-02	2.93E-05	7.08E-01	1.78E+00
420	1.21E+01	8.55E+01	2.57E-02	2.10E-05	8.49E-01	1.50E+00
430	1.39E+01	8.38E+01	2.04E-02	1.50E-05	1.01E+00	1.25E+00
440	1.59E+01	8.18E+01	1.61E-02	1.07E-05	1.20E+00	1.05E+00
450	1.81E+01	7.96E+01	1.27E-02	7.61E-06	1.43E+00	8.69E-01
460	2.05E+01	7.71E+01	1.00E-02	5.39E-06	1.68E+00	7.20E-01
470	2.31E+01	7.43E+01	7.84E-03	3.81E-06	1.97E+00	5.94E-01
480	2.59E+01	7.13E+01	6.12E-03	2.68E-06	2.29E+00	4.88E-01
490	2.89E+01	6.81E+01	4.75E-03	1.87E-06	2.66E+00	3.99E-01
500	3.20E+01	6.46E+01	3.67E-03	1.31E-06	3.06E+00	3.24E-01
510	3.52E+01	6.10E+01	2.82E-03	9.06E-07	3.50E+00	2.62E-01
520	3.86E+01	5.72E+01	2.16E-03	6.25E-07	3.98E+00	2.11E-01
530	4.19E+01	5.34E+01	1.64E-03	4.29E-07	4.50E+00	1.69E-01
540	4.53E+01	4.95E+01	1.24E-03	2.93E-07	5.05E+00	1.35E-01
550	4.86E+01	4.56E+01	9.34E-04	1.99E-07	5.63E+00	1.06E-01
560	5.19E+01	4.18E+01	6.98E-04	1.35E-07	6.23E+00	8.38E-02
570	5.50E+01	3.81E+01	5.20E-04	9.07E-08	6.86E+00	6.56E-02
580	5.79E+01	3.45E+01	3.85E-04	6.08E-08	7.51E+00	5.11E-02
590	6.07E+01	3.11E+01	2.84E-04	4.05E-08	8.17E+00	3.96E-02
600	6.32E+01	2.79E+01	2.08E-04	2.69E-08	8.84E+00	3.06E-02
610	6.56E+01	2.49E+01	1.52E-04	1.78E-08	9.51E+00	2.35E-02
620	6.77E+01	2.21E+01	1.11E-04	1.17E-08	1.02E+01	1.80E-02
630	6.95E+01	1.96E+01	8.06E-05	7.72E-09	1.09E+01	1.37E-02
640	7.12E+01	1.73E+01	5.84E-05	5.06E-09	1.15E+01	1.04E-02
650	7.26E+01	1.52E+01	4.21E-05	3.31E-09	1.22E+01	7.92E-03
660	7.38E+01	1.33E+01	3.03E-05	2.16E-09	1.29E+01	6.00E-03
670	7.48E+01	1.17E+01	2.18E-05	1.41E-09	1.36E+01	4.53E-03
680	7.56E+01	1.02E+01	1.57E-05	9.17E-10	1.42E+01	3.41E-03
690	7.63E+01	8.88E+00	1.12E-05	5.97E-10	1.49E+01	2.57E-03
700	7.68E+01	7.72E+00	8.04E-06	3.88E-10	1.55E+01	1.93E-03

z, км	H ₂ /S, %	O/S, %	O ₂ /S, %	Ar/S, %	11/S, %	N ₂ /S, %
710	7.71E+01	6.71E+00	5.75E-06	2.52E-10	1.62E+01	1.45E-03
720	7.74E+01	5.82E+00	4.11E-06	1.63E-10	1.68E+01	1.09E-03
730	7.75E+01	5.04E+00	2.94E-06	1.06E-10	1.75E+01	8.17E-04
740	7.75E+01	4.37E+00	2.10E-06	6.88E-11	1.81E+01	6.12E-04
750	7.75E+01	3.78E+00	1.50E-06	4.47E-11	1.88E+01	4.59E-04
760	7.73E+01	3.27E+00	1.07E-06	2.90E-11	1.94E+01	3.44E-04
770	7.71E+01	2.83E+00	7.65E-07	1.88E-11	2.01E+01	2.57E-04
780	7.68E+01	2.44E+00	5.47E-07	1.22E-11	2.07E+01	1.93E-04
790	7.65E+01	2.11E+00	3.91E-07	7.94E-12	2.14E+01	1.45E-04
800	7.61E+01	1.82E+00	2.79E-07	5.17E-12	2.20E+01	1.08E-04

D—82; LAT—80; LON—45; LT—12; F—70; FAV—70; A_p—3; UT1—9

80	5.35E-04	1.16E-03	2.08E+01	9.24E-01	1.65E-05	7.82E-01
90	5.91E-04	2.92E-01	2.04E+01	8.98E-01	1.12E-04	7.84E+01
100	9.54E-04	3.28E+00	1.84E+01	7.70E-01	2.08E-04	7.76E+01
110	2.32E-03	9.42E+00	1.44E+01	5.54E-01	4.74E-04	7.56E+01
120	5.92E-03	1.64E+01	1.05E+01	3.73E-01	8.72E-04	7.28E+01
130	1.41E-02	2.23E+01	8.10E+00	2.63E-01	1.21E-03	6.93E+01
140	2.67E-02	2.74E+01	6.77E+00	1.92E-01	1.44E-03	6.56E+01
150	4.21E-02	3.21E+01	5.85E+00	1.44E-01	1.64E-03	6.18E+01
160	6.17E-02	3.67E+01	5.11E+00	1.10E-01	1.90E-03	5.80E+01
170	8.70E-02	4.12E+01	4.47E+00	8.38E-02	2.27E-03	5.41E+01
180	1.19E-01	4.57E+01	3.89E+00	6.43E-02	2.79E-03	5.02E+01
190	1.60E-01	5.01E+01	3.37E+00	4.93E-02	3.52E-03	4.63E+01
200	2.11E-01	5.45E+01	2.91E+00	3.77E-02	4.51E-03	4.24E+01
210	2.74E-01	5.87E+01	2.50E+00	2.87E-02	5.83E-03	3.85E+01
220	3.52E-01	6.27E+01	2.13E+00	2.18E-02	7.56E-03	3.48E+01
230	4.47E-01	6.65E+01	1.80E+00	1.65E-02	9.81E-03	3.12E+01
240	5.62E-01	7.00E+01	1.52E+00	1.24E-02	1.27E-02	2.79E+01
250	7.01E-01	7.33E+01	1.27E+00	9.25E-03	1.64E-02	2.47E+01
260	8.67E-01	7.63E+01	1.06E+00	6.89E-03	2.10E-02	2.18E+01
270	1.06E+00	7.89E+01	8.78E-01	5.11E-03	2.68E-02	1.91E+01
280	1.30E+00	8.13E+01	7.25E-01	3.77E-03	3.40E-02	1.67E+01
290	1.58E+00	8.33E+01	5.96E-01	2.77E-03	4.29E-02	1.45E+01
300	1.90E+00	8.50E+01	4.88E-01	2.03E-03	5.40E-02	1.25E+01
310	2.30E+00	8.63E+01	4.01E-01	1.50E-03	6.80E-02	1.09E+01
320	2.75E+00	8.75E+01	3.26E-01	1.09E-03	8.46E-02	9.35E+00
330	3.27E+00	8.83E+01	2.64E-01	7.92E-04	1.05E-01	8.01E+00
340	3.88E+00	8.89E+01	2.14E-01	5.74E-04	1.30E-01	6.84E+00
350	4.59E+00	8.92E+01	1.73E-01	4.16E-04	1.59E-01	5.83E+00
360	5.40E+00	8.93E+01	1.39E-01	3.00E-04	1.96E-01	4.96E+00
370	6.34E+00	8.91E+01	1.12E-01	2.17E-04	2.39E-01	4.21E+00
380	7.42E+00	8.86E+01	8.96E-02	1.56E-04	2.91E-01	3.56E+00
390	8.65E+00	8.79E+01	7.16E-02	1.12E-04	3.53E-01	3.00E+00
400	1.00E+01	8.69E+01	5.72E-02	8.02E-05	4.27E-01	2.53E+00

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.16E+01	8.57E+01	4.55E-02	5.74E-05	5.15E-01	2.12E+00
420	1.34E+01	8.42E+01	3.61E-02	4.09E-05	6.17E-01	1.78E+00
430	1.54E+01	8.24E+01	2.86E-02	2.91E-05	7.38E-01	1.48E+00
440	1.76E+01	8.03E+01	2.25E-02	2.06E-05	8.77E-01	1.23E+00
450	2.00E+01	7.79E+01	1.77E-02	1.46E-05	1.04E+00	1.02E+00
460	2.26E+01	7.53E+01	1.38E-02	1.03E-05	1.22E+00	8.42E-01
470	2.55E+01	7.24E+01	1.08E-02	7.21E-06	1.43E+00	6.92E-01
480	2.85E+01	6.93E+01	8.37E-03	5.04E-06	1.67E+00	5.65E-01
490	3.17E+01	6.59E+01	6.46E-03	3.50E-06	1.93E+00	4.60E-01
500	3.51E+01	6.23E+01	4.96E-03	2.42E-06	2.22E+00	3.72E-01
510	3.86E+01	5.86E+01	3.79E-03	1.67E-06	2.53E+00	2.99E-01
520	4.21E+01	5.48E+01	2.88E-03	1.14E-06	2.88E+00	2.40E-01
530	4.57E+01	5.09E+01	2.18E-03	7.80E-07	3.24E+00	1.91E-01
540	4.92E+01	4.70E+01	1.64E-03	5.29E-07	3.63E+00	1.51E-01
550	5.27E+01	4.32E+01	1.22E-03	3.57E-07	4.04E+00	1.19E-01
560	5.61E+01	3.94E+01	9.10E-04	2.39E-07	4.47E+00	9.29E-02
570	5.93E+01	3.57E+01	6.73E-04	1.60E-07	4.91E+00	7.24E-02
580	6.23E+01	3.22E+01	4.96E-04	1.06E-07	5.36E+00	5.61E-02
590	6.52E+01	2.90E+01	3.63E-04	7.04E-08	5.82E+00	4.32E-02
600	6.78E+01	2.59E+01	2.65E-04	4.65E-08	6.29E+00	3.32E-02
610	7.02E+01	2.30E+01	1.93E-04	3.05E-08	6.76E+00	2.54E-02
620	7.23E+01	2.04E+01	1.40E-04	2.00E-08	7.24E+00	1.94E-02
630	7.42E+01	1.80E+01	1.01E-04	1.31E-08	7.72E+00	1.47E-02
640	7.59E+01	1.59E+01	7.28E-05	8.53E-09	8.19E+00	1.11E-02
650	7.74E+01	1.39E+01	5.23E-05	5.55E-09	8.67E+00	8.42E-03
660	7.87E+01	1.22E+01	3.75E-05	3.61E-09	9.15E+00	6.35E-03
670	7.97E+01	1.06E+01	2.69E-05	2.34E-09	9.62E+00	4.78E-03
680	8.06E+01	9.28E+01	1.92E-05	1.52E-09	1.01E+01	3.59E-03
690	8.13E+01	8.08E+01	1.37E-05	9.81E-10	1.06E+01	2.70E-03
700	8.19E+01	7.02E+01	9.81E-06	6.35E-10	1.10E+01	2.02E-03
710	8.24E+01	6.09E+00	7.00E-06	4.11E-10	1.15E+01	1.51E-03
720	8.27E+01	5.28E+00	4.99E-06	2.65E-10	1.20E+01	1.13E-03
730	8.29E+01	4.58E+00	3.56E-06	1.72E-10	1.25E+01	8.49E-04
740	8.31E+01	3.96E+00	2.54E-06	1.11E-10	1.30E+01	6.35E-04
750	8.31E+01	3.43E+00	1.81E-06	7.18E-11	1.35E+01	4.75E-04
760	8.31E+01	2.96E+00	1.29E-06	4.64E-11	1.39E+01	3.55E-04
770	8.30E+01	2.56E+00	9.18E-07	3.01E-11	1.44E+01	2.66E-04
780	8.28E+01	2.21E+00	6.54E-07	1.95E-11	1.49E+01	1.99E-04
790	8.26E+01	1.91E+00	4.67E-07	1.26E-11	1.55E+01	1.49E-04
800	8.24E+01	1.65E+00	3.33E-07	8.18E-12	1.60E+01	1.11E-04

D-82, LAT-40; LON 45; LT-12, F-70; FAV-70, A_p-3, UT1-9

80	5.12E-01	1.22E-03	2.08E+01	8.97E-01	1.74E-05	7.83E+01
90	6.07E-04	3.10E-01	2.04E+01	8.55E-01	1.20E-04	7.84E+01
100	9.52E-04	3.46E+00	1.85E+01	7.17E-01	2.06E-04	7.74E+01

Продолжение табл. 4

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
110	2.42E-03	1.02E+01	1.44E+01	4.80E-01	5.02E-04	7.49E+01
120	6.72E-03	1.83E+01	1.04E+01	2.95E-01	1.03E-03	7.11E+01
130	1.59E-02	2.51E+01	7.98E+00	1.93E-01	1.46E-03	6.68E+01
140	3.00E-02	3.08E+01	6.59E+00	1.33E-01	1.77E-03	6.24E+01
150	4.72E-02	3.61E+01	5.63E+00	9.51E-02	2.05E-03	5.81E+01
160	6.89E-02	4.12E+01	4.85E+00	6.96E-02	2.39E-03	5.38E+01
170	9.65E-02	4.61E+01	4.18E+00	5.17E-02	2.86E-03	4.96E+01
180	1.31E-01	5.08E+01	3.59E+00	3.88E-02	3.51E-03	4.54E+01
190	1.74E-01	5.54E+01	3.07E+00	2.92E-02	4.40E-03	4.13E+01
200	2.28E-01	5.98E+01	2.61E+00	2.19E-02	5.60E-03	3.73E+01
210	2.93E-01	6.39E+01	2.21E+00	1.65E-02	7.19E-03	3.35E+01
220	3.72E-01	6.78E+01	1.86E+00	1.23E-02	9.24E-03	2.99E+01
230	4.68E-01	7.14E+01	1.56E+00	9.20E-03	1.19E-02	2.66E+01
240	5.83E-01	7.46E+01	1.30E+00	6.84E-03	1.52E-02	2.35E+01
250	7.21E-01	7.76E+01	1.08E+00	5.07E-03	1.95E-02	2.06E+01
260	8.84E-01	8.02E+01	8.91E-01	3.74E-03	2.48E-02	1.80E+01
270	1.08E+00	8.25E+01	7.35E-01	2.75E-03	3.14E-02	1.57E+01
280	1.31E+00	8.45E+01	6.03E-01	2.02E-03	3.96E-02	1.36E+01
290	1.58E+00	8.64E+01	4.93E-01	1.48E-03	4.97E-02	1.17E+01
300	1.89E+00	8.75E+01	4.01E-01	1.08E-03	6.21E-02	1.01E+01
310	2.27E+00	8.86E+01	3.27E-01	7.86E-04	7.76E-02	8.71E+00
320	2.70E+00	8.95E+01	2.65E-01	5.71E-04	9.62E-02	7.46E+00
330	3.21E+00	9.01E+01	2.11E-01	4.14E-04	1.19E-01	6.37E+00
340	3.79E+00	9.05E+01	1.73E-01	3.00E-04	1.46E-01	5.13E+00
350	4.47E+00	9.06E+01	1.39E-01	2.17E-04	1.80E-01	4.62E+00
360	5.25E+00	9.05E+01	1.12E-01	1.56E-04	2.20E-01	3.92E+00
370	6.16E+00	9.02E+01	9.00E-02	1.13E-04	2.69E-01	3.32E+00
380	7.19E+00	8.96E+01	7.21E-02	8.10E-05	3.27E-01	2.81E+00
390	8.37E+00	8.88E+01	5.77E-02	5.82E-05	3.96E-01	2.37E+00
400	9.72E+00	8.78E+01	4.60E-02	4.17E-05	4.78E-01	2.00E+00
410	1.12E+01	8.65E+01	3.66E-02	2.98E-05	5.76E-01	1.68E+00
420	1.29E+01	8.49E+01	2.91E-02	2.13E-05	6.90E-01	1.40E+00
430	1.49E+01	8.31E+01	2.30E-02	1.52E-05	8.24E-01	1.17E+00
440	1.70E+01	8.10E+01	1.82E-02	1.08E-05	9.80E-01	9.74E-01
450	1.93E+01	7.87E+01	1.43E-02	7.61E-06	1.16E+00	8.07E-01
460	2.19E+01	7.61E+01	1.12E-02	5.37E-06	1.37E+00	6.67E-01
470	2.46E+01	7.32E+01	8.73E-03	3.77E-06	1.60E+00	5.48E-01
480	2.76E+01	7.01E+01	6.78E-03	2.64E-06	1.86E+00	4.49E-01
490	3.07E+01	6.68E+01	5.24E-03	1.84E-06	2.16E+00	3.65E-01
500	3.40E+01	6.32E+01	4.03E-03	1.27E-06	2.48E+00	2.96E-01
510	3.74E+01	5.95E+01	3.09E-03	8.79E-07	2.84E+00	2.39E-01
520	4.09E+01	5.57E+01	2.35E-03	6.03E-07	3.23E+00	1.91E-01
530	4.44E+01	5.18E+01	1.78E-03	4.12E-07	3.64E+00	1.52E-01
540	4.79E+01	4.79E+01	1.34E-03	2.80E-07	4.08E+00	1.21E-01
550	5.13E+01	4.41E+01	1.00E-03	1.89E-07	4.55E+00	9.52E-02
560	5.46E+01	4.03E+01	7.47E-04	1.27E-07	5.03E+00	7.47E-02
570	5.78E+01	3.66E+01	5.53E-04	8.52E-08	5.53E+00	5.82E-02
580	6.09E+01	3.30E+01	4.08E-04	5.67E-08	6.05E+00	4.52E-02
590	6.37E+01	2.97E+01	3.00E-04	3.76E-08	6.58E+00	3.49E-02
600	6.63E+01	2.66E+01	2.19E-04	2.49E-08	7.11E+00	2.68E-02

Z_{HSE}	Hc/S, %	O/S, %	Os/S, %	As/S, %	N/S, %	N ₂ /S, %
610	6.87E+01	2.37E+01	1.59E-04	1.64E-08	7.65E+00	2.05E-02
620	7.08E+01	2.10E+01	1.16E-04	1.07E-08	8.19E+00	1.57E-02
630	7.27E+01	1.86E+01	8.37E-05	7.03E-09	8.73E+00	1.19E-02
640	7.44E+01	1.63E+01	6.04E-05	4.59E-09	9.27E+00	9.04E-03
650	7.58E+01	1.43E+01	4.34E-05	2.99E-09	9.81E+00	6.83E-03
660	7.71E+01	1.26E+01	3.12E-05	1.95E-09	1.04E+01	5.16E-03
670	7.81E+01	1.10E+01	2.24E-05	1.26E-09	1.09E+01	3.88E-03
680	7.90E+01	9.57E+00	1.60E-05	8.19E-10	1.14E+01	2.92E-03
690	7.97E+01	8.33E+00	1.14E-05	5.31E-10	1.20E+01	2.19E-03
700	8.03E+01	7.24E+00	8.17E-06	3.44E-10	1.25E+01	1.65E-03
710	8.07E+01	6.29E+00	5.83E-06	2.22E-10	1.30E+01	1.23E-03
720	8.10E+01	5.45E+00	4.16E-06	1.44E-10	1.36E+01	9.24E-04
730	8.12E+01	4.72E+00	2.97E-06	9.31E-11	1.41E+01	6.92E-04
740	8.13E+01	4.09E+00	2.12E-06	6.02E-11	1.46E+01	5.17E-04
750	8.13E+01	3.54E+00	1.51E-06	3.90E-11	1.52E+01	3.87E-04
760	8.12E+01	3.06E+00	1.07E-06	2.52E-11	1.57E+01	2.90E-04
770	8.11E+01	2.64E+00	7.66E-07	1.63E-11	1.63E+01	2.17E-04
780	8.09E+01	2.28E+00	5.46E-07	1.06E-11	1.68E+01	1.62E-04
790	8.06E+01	1.97E+00	3.90E-07	6.85E-12	1.74E+01	1.21E-04
800	8.03E+01	1.70E+00	2.78E-07	4.45E-12	1.80E+01	9.07E-05

D-82; LAT-80; LON-45; LT-12; F-70; FAV-70; A_p-3; UTI-9

80	5.40E-04	1.09E-03	2.09E+01	9.22E-01	1.79E-05	7.82E+01
90	6.01E-04	2.73E-01	2.05E+01	8.94E-01	1.25E-04	7.83E+01
100	9.50E-04	3.01E+00	1.89E+01	7.68E-01	2.24E-04	7.73E+01
110	2.31E-03	8.64E+00	1.56E+01	5.47E-01	5.34E-04	7.52E+01
120	5.80E-03	1.51E+01	1.22E+01	3.64E-01	1.06E-03	7.24E+01
130	1.18E-02	2.05E+01	9.99E+00	2.56E-01	1.56E-03	6.92E+01
140	2.01E-02	2.52E+01	8.58E+00	1.89E-01	1.95E-03	6.61E+01
150	3.14E-02	2.94E+01	7.54E+00	1.43E-01	2.31E-03	6.29E+01
160	4.61E-02	3.35E+01	6.68E+00	1.11E-01	2.76E-03	5.96E+01
170	6.51E-02	3.76E+01	5.92E+00	8.61E-02	3.37E-03	5.63E+01
180	8.94E-02	4.17E+01	5.24E+00	6.74E-02	4.21E-03	5.29E+01
190	1.20E-01	4.57E+01	4.62E+00	5.28E-02	5.35E-03	4.95E+01
200	1.58E-01	4.97E+01	4.06E+00	4.14E-02	6.90E-03	4.60E+01
210	2.06E-01	5.37E+01	3.55E+00	3.24E-02	8.94E-03	4.25E+01
220	2.64E-01	5.75E+01	3.09E+00	2.52E-02	1.16E-02	3.91E+01
230	3.35E-01	6.12E+01	2.67E+00	1.96E-02	1.50E-02	3.57E+01
240	4.21E-01	6.48E+01	2.30E+00	1.51E-02	1.94E-02	3.24E+01
250	5.24E-01	6.82E+01	1.97E+00	1.17E-02	2.49E-02	2.93E+01
260	6.47E-01	7.13E+01	1.68E+00	8.94E-03	3.18E-02	2.63E+01
270	7.93E-01	7.42E+01	1.42E+00	6.82E-03	4.04E-02	2.35E+01
280	9.65E-01	7.69E+01	1.20E+00	5.19E-03	5.10E-02	2.09E+01
290	1.17E+00	7.93E+01	1.01E+00	3.93E-03	6.41E-02	1.85E+01
300	1.40E+00	8.14E+01	8.45E-01	2.97E-03	8.01E-02	1.63E+01

Продолжение табл. 4

Z, HN	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	1.70E+00	8.30E+01	7.11E-01	2.25E-03	1.00E-01	1.45E+01
320	2.02E+00	8.46E+01	5.91E-01	1.69E-03	1.24E-01	1.26E+01
330	2.39E+00	8.60E+01	4.89E-01	1.26E-03	1.53E-01	1.10E+01
340	2.82E+00	8.70E+01	4.04E-01	9.41E-04	1.87E-01	9.57E+00
350	3.32E+00	8.78E+01	3.33E-01	7.00E-04	2.29E-01	8.29E+00
360	3.88E+00	8.84E+01	2.73E-01	5.20E-04	2.78E-01	7.17E+00
370	4.54E+00	8.87E+01	2.24E-01	3.86E-04	3.37E-01	6.18E+00
380	5.28E+00	8.88E+01	1.84E-01	2.85E-04	4.08E-01	5.32E+00
390	6.13E+00	8.87E+01	1.50E-01	2.11E-04	4.91E-01	4.57E+00
400	7.09E+00	8.83E+01	1.22E-01	1.56E-04	5.90E-01	3.92E+00
410	8.18E+00	8.77E+01	9.94E-02	1.15E-04	7.06E-01	3.35E+00
420	9.40E+00	8.68E+01	8.07E-02	8.42E-05	8.43E-01	2.86E+00
430	1.08E+01	8.57E+01	6.54E-02	6.18E-05	1.00E+00	2.43E+00
440	1.23E+01	8.44E+01	5.28E-02	4.52E-05	1.19E+00	2.07E+00
450	1.40E+01	8.28E+01	4.26E-02	3.30E-05	1.40E+00	1.75E+00
460	1.58E+01	8.10E+01	3.42E-02	2.41E-05	1.65E+00	1.48E+00
470	1.79E+01	7.89E+01	2.74E-02	1.75E-05	1.93E+00	1.24E+00
480	2.01E+01	7.66E+01	2.19E-02	1.26E-05	2.25E+00	1.04E+00
490	2.25E+01	7.40E+01	1.71E-02	9.13E-06	2.61E+00	8.69E-01
500	2.50E+01	7.12E+01	1.38E-02	6.57E-06	3.01E+00	7.23E-01
510	2.77E+01	6.82E+01	1.09E-02	4.70E-06	3.46E+00	5.99E-01
520	3.05E+01	6.50E+01	8.55E-03	3.36E-06	3.95E+00	4.94E-01
530	3.34E+01	6.17E+01	6.69E-03	2.38E-06	4.49E+00	4.05E-01
540	3.64E+01	5.82E+01	5.21E-03	1.69E-06	5.07E+00	3.31E-01
550	3.95E+01	5.46E+01	4.04E-03	1.19E-06	5.69E+00	2.69E-01
560	4.25E+01	5.09E+01	3.11E-03	8.33E-07	6.35E+00	2.18E-01
570	4.55E+01	4.74E+01	2.39E-03	5.81E-07	7.04E+00	1.75E-01
580	4.84E+01	4.37E+01	1.83E-03	4.04E-07	7.77E+00	1.40E-01
590	5.13E+01	4.01E+01	1.39E-03	2.79E-07	8.52E+00	1.12E-01
600	5.40E+01	3.67E+01	1.05E-03	1.92E-07	9.29E+00	8.88E-02
610	5.65E+01	3.33E+01	7.91E-04	1.32E-07	1.01E+01	7.01E-02
620	5.89E+01	3.02E+01	5.94E-04	9.02E-08	1.09E+01	5.51E-02
630	6.11E+01	2.72E+01	4.44E-04	6.14E-08	1.17E+01	4.32E-02
640	6.30E+01	2.44E+01	3.31E-04	4.17E-08	1.25E+01	3.37E-02
650	6.48E+01	2.18E+01	2.46E-04	2.82E-08	1.33E+01	2.62E-02
660	6.64E+01	1.95E+01	1.82E-04	1.90E-08	1.41E+01	2.04E-02
670	6.78E+01	1.73E+01	1.34E-04	1.28E-08	1.49E+01	1.57E-02
680	6.90E+01	1.53E+01	9.90E-05	8.61E-09	1.57E+01	1.21E-02
690	7.00E+01	1.35E+01	7.28E-05	5.78E-09	1.65E+01	9.35E-03
700	7.08E+01	1.19E+01	5.35E-05	3.87E-09	1.73E+01	7.19E-03
710	7.14E+01	1.05E+01	3.92E-05	2.59E-09	1.80E+01	5.52E-03
720	7.20E+01	9.24E+00	2.87E-05	1.73E-09	1.88E+01	4.23E-03
730	7.23E+01	8.10E+00	2.10E-05	1.16E-09	1.96E+01	3.24E-03
740	7.26E+01	7.10E+00	1.53E-05	7.72E-10	2.03E+01	2.47E-03
750	7.27E+01	6.21E+00	1.12E-05	5.15E-10	2.10E+01	1.89E-03
760	7.28E+01	5.43E+00	8.18E-06	3.44E-10	2.18E+01	1.41E-03
770	7.27E+01	4.74E+00	5.97E-06	2.29E-10	2.25E+01	1.10E-03
780	7.26E+01	4.14E+00	4.36E-06	1.53E-10	2.32E+01	8.41E-04
790	7.24E+01	3.61E+00	3.18E-06	1.02E-10	2.40E+01	6.42E-04
800	7.22E+01	3.15E+00	2.32E-06	6.81E-11	2.47E+01	4.89E-04

Широтные вариации состава при средней солнечной активности для условий
весеннего равноденствия в северном и осеннего в южном полушариях

$Z_{\text{сол}}$	He/S, %	O/S, %	O_2/S , %	Ar/S, %	N/S, %	N_2/S , %
<i>D</i> 82; LAT-0; LON-45; LT-12; <i>F</i> 150; FAV-150; <i>A_p</i> -3; UT1-9						
80	5.58E-04	1.28E-03	2.08E+01	8.97E-01	1.62E-05	7.83E+01
90	6.15E-04	3.26E-01	2.02E+01	8.60E-01	1.01E-04	7.86E+01
100	9.55E-04	3.65E+00	1.80E+01	7.29E-01	1.56E-04	7.76E+01
110	2.50E-03	1.12E+01	1.31E+01	4.75E-01	3.59E-01	7.52E+01
120	7.56E-03	2.04E+01	8.62E+00	2.85E-01	7.47E-04	7.07E+01
130	1.56E-02	2.72E-01	6.34E+00	1.93E-01	9.03E-04	6.62E+01
140	2.62E-02	3.26E-01	5.21E+00	1.39E-01	9.27E-04	6.21E-01
150	3.83E-02	3.71E+01	4.51E+00	1.04E-01	9.21E-04	5.82E-01
160	5.26E-02	4.14E+01	3.98E+00	8.07E-02	9.38E-04	5.45E-01
170	6.92E-02	4.53E+01	3.53E+00	6.37E-02	9.95E-04	5.11E+01
180	8.86E-02	4.90E+01	3.14E+00	5.09E-02	1.10E-03	4.77E+01
190	1.11E-01	5.26E+01	2.79E+00	4.11E-02	1.26E-03	4.45E+01
200	1.37E-01	5.60E+01	2.49E+00	3.31E-02	1.47E-03	4.14E+01
210	1.67E-01	5.92E+01	2.21E+00	2.70E-02	1.74E-03	3.84E+01
220	2.01E-01	6.23E+01	1.96E+00	2.20E-02	2.08E-03	3.55E+01
230	2.39E-01	6.52E+01	1.73E+00	1.79E-02	2.50E-03	3.28E+01
240	2.83E-01	6.80E+01	1.53E+00	1.46E-02	3.00E-03	3.02E+01
250	3.33E-01	7.06E+01	1.35E+00	1.19E-02	3.60E-03	2.77E+01
260	3.90E-01	7.30E+01	1.19E+00	9.63E-03	4.30E-03	2.54E+01
270	4.54E-01	7.53E+01	1.05E+00	7.82E-03	5.13E-03	2.32E+01
280	5.26E-01	7.73E+01	9.17E-01	6.31E-03	6.11E-03	2.12E+01
290	6.07E-01	7.93E+01	8.04E-01	5.14E-03	7.25E-03	1.93E+01
300	6.98E-01	8.10E+01	7.03E-01	4.16E-03	8.57E-03	1.76E+01
310	7.99E-01	8.26E+01	6.13E-01	3.36E-03	1.01E-02	1.59E+01
320	9.14E-01	8.41E+01	5.35E-01	2.71E-03	1.19E-02	1.44E+01
330	1.04E+00	8.54E+01	4.66E-01	2.19E-03	1.39E-02	1.31E+01
340	1.18E+00	8.66E+01	4.06E-01	1.76E-03	1.63E-02	1.18E+01
350	1.34E+00	8.76E+01	3.53E-01	1.42E-03	1.90E-02	1.07E+01
360	1.52E+00	8.85E+01	3.06E-01	1.14E-03	2.21E-02	9.63E+00
370	1.72E+00	8.93E+01	2.66E-01	9.20E-04	2.57E-02	8.67E+00
380	1.94E+00	9.00E+01	2.30E-01	7.40E-04	2.99E-02	7.81E+00
390	2.19E+00	9.06E+01	1.99E-01	5.95E-04	3.46E-02	7.02E+00
400	2.46E+00	9.10E+01	1.73E-01	4.78E-04	4.00E-02	6.31E+00
410	2.76E+00	9.14E+01	1.49E-01	3.84E-04	4.62E-02	5.67E+00
420	3.09E+00	9.16E+01	1.29E-01	3.08E-04	5.32E-02	5.08E+00
430	3.46E+00	9.18E+01	1.12E-01	2.47E-04	6.13E-02	4.56E+00
440	3.87E+00	9.19E+01	9.64E-02	1.98E-04	7.04E-02	4.08E+00
450	4.32E+00	9.19E+01	8.32E-02	1.59E-04	8.08E-02	3.66E+00
460	4.82E+00	9.17E+01	7.17E-02	1.27E-04	9.26E-02	3.27E+00
470	5.36E+00	9.15E+01	6.19E-02	1.02E-04	1.06E-01	2.93E+00
480	5.96E+00	9.12E+01	5.33E-02	8.18E-05	1.21E-01	2.61E+00
490	6.62E+00	9.09E+01	4.59E-02	6.55E-05	1.38E-01	2.33E+00
500	7.34E+00	9.04E+01	3.95E-02	5.24E-05	1.57E-01	2.08E+00

Продолжение табл. 5

Z , км	He/S, %	O/S, %	O_2 /S, %	Ar/S, %	N/S, %	N_2 /S, %
510	8.13E+00	8.98E+01	3.40E-02	4.19E-05	1.79E-01	1.86E+00
520	8.99E+00	8.91E+01	2.92E-02	3.35E-05	2.03E-01	1.65E+00
530	9.92E+00	8.83E+01	2.51E-02	2.68E-05	2.31E-01	1.47E+00
540	1.09E+01	8.75E+01	2.15E-02	2.14E-05	2.61E-01	1.31E+00
550	1.20E+01	8.65E+01	1.84E-02	1.71E-05	2.95E-01	1.16E+00
560	1.32E+01	8.54E+01	1.58E-02	1.36E-05	3.33E-01	1.03E+00
570	1.45E+01	8.42E+01	1.35E-02	1.09E-05	3.75E-01	9.15E-01
580	1.59E+01	8.29E+01	1.15E-02	8.65E-06	4.22E-01	8.10E-01
590	1.73E+01	8.15E+01	9.85E-03	6.88E-06	4.73E-01	7.16E-01
600	1.89E+01	7.99E+01	8.40E-03	5.47E-06	5.30E-01	6.32E-01
610	2.06E+01	7.83E+01	7.15E-03	4.34E-06	5.92E-01	5.57E-01
620	2.23E+01	7.65E+01	6.07E-03	3.44E-06	6.60E-01	4.91E-01
630	2.42E+01	7.46E+01	5.15E-03	2.72E-06	7.33E-01	4.31E-01
640	2.61E+01	7.27E+01	4.37E-03	2.15E-06	8.13E-01	3.78E-01
650	2.82E+01	7.06E+01	3.69E-03	1.70E-06	9.00E-01	3.31E-01
660	3.03E+01	6.84E+01	3.12E-03	1.34E-06	9.93E-01	2.89E-01
670	3.25E+01	6.62E+01	2.63E-03	1.05E-06	1.09E+00	2.52E-01
680	3.48E+01	6.38E+01	2.21E-03	8.21E-07	1.20E+00	2.20E-01
690	3.71E+01	6.14E+01	1.85E-03	6.46E-07	1.31E+00	1.91E-01
700	3.94E+01	5.90E+01	1.55E-03	5.05E-07	1.43E+00	1.65E-01
710	4.18E+01	5.65E+01	1.30E-03	3.94E-07	1.56E+00	1.43E-01
720	4.42E+01	5.39E+01	1.08E-03	3.07E-07	1.69E+00	1.23E-01
730	4.67E+01	5.14E+01	8.99E-04	2.39E-07	1.83E+00	1.06E-01
740	4.91E+01	4.89E+01	7.46E-04	1.85E-07	1.97E+00	9.11E-02
750	5.15E+01	4.63E+01	6.18E-04	1.41E-07	2.12E+00	7.80E-02
760	5.39E+01	4.38E+01	5.11E-04	1.11E-07	2.28E+00	6.67E-02
770	5.62E+01	4.13E+01	4.22E-04	8.56E-08	2.44E+00	5.69E-02
780	5.85E+01	3.89E+01	3.47E-04	6.59E-08	2.60E+00	4.85E-02
790	6.07E+01	3.65E+01	2.86E-04	5.07E-08	2.77E+00	4.12E-02
800	6.28E+01	3.42E+01	2.34E-04	3.89E-08	2.94E+00	3.49E-02
D-82; LAT-40; LON-45; LT-12; F-150; FAV-150; A _p -3; UT1-9						
80	5.41E-04	1.30E-03	2.08E+01	8.85E-01	1.55E-05	7.83E+01
90	6.05E-04	3.34E-01	2.02E+01	8.37E-01	1.02E-04	7.86E-01
100	9.57E-04	3.78E+00	1.77E+01	6.94E-01	1.68E-04	7.78E+01
110	2.43E-03	1.13E+01	1.28E+01	4.59E-01	3.80E-04	7.55E+01
120	6.59E-03	2.00E+01	8.24E+00	2.79E-01	6.97E-04	7.15E+01
130	1.50E-02	2.69E+01	5.91E+00	1.83E-01	8.77E-04	6.70E+01
140	2.70E-02	3.24E+01	4.79E+00	1.27E-01	9.28E-04	6.27E+01
150	4.02E-02	3.71E+01	4.12E+00	9.32E-02	9.14E-04	5.87E+01
160	5.56E-02	4.14E+01	3.62E+00	7.07E-02	9.78E-04	5.48E+01
170	7.30E-02	4.55E+01	3.20E+00	5.50E-02	1.05E-03	5.12E+01
180	9.45E-02	4.94E+01	2.83E+00	4.15E-02	1.17E-03	4.77E+01
190	1.19E-01	5.30E+01	2.51E+00	3.18E-02	1.35E-03	4.43E+01
200	1.47E-01	5.65E+01	2.23E+00	2.80E-02	1.58E-03	4.11E+01

z , км	H/S, %	O/S, %	O ₂ /S, %	N ₂ /S, %	H/S, %	N ₂ /S, %
210	1.78E-01	5.98E+01	1.97E+00	2.26E-02	1.89E-03	3.80E+01
220	2.15E-01	6.30E+01	1.74E+00	1.83E-02	2.26E-03	3.50E+01
230	2.57E-01	6.59E+01	1.54E+00	1.49E-02	2.71E-03	3.23E+01
240	3.04E-01	6.87E+01	1.35E+00	1.20E-02	3.26E-03	2.96E+01
250	3.57E-01	7.13E+01	1.19E+00	9.76E-03	3.91E-03	2.72E+01
260	4.18E-01	7.37E+01	1.05E+00	7.90E-03	4.68E-03	2.48E+01
270	4.86E-01	7.59E+01	9.17E-01	6.40E-03	5.59E-03	2.27E+01
280	5.63E-01	7.80E+01	8.03E-01	5.17E-03	6.65E-03	2.07E+01
290	6.50E-01	7.99E+01	7.02E-01	4.18E-03	7.89E-03	1.88E+01
300	7.47E-01	8.16E+01	6.13E-01	3.38E-03	9.33E-03	1.70E+01
310	8.54E-01	8.32E+01	5.33E-01	2.72E-03	1.10E-02	1.54E+01
320	9.76E-01	8.46E+01	4.65E-01	2.19E-03	1.29E-02	1.40E+01
330	1.11E+00	8.58E+01	4.04E-01	1.76E-03	1.51E-02	1.26E+01
340	1.27E+00	8.70E+01	3.51E-01	1.42E-03	1.77E-02	1.14E+01
350	1.44E+00	8.80E+01	3.05E-01	1.14E-03	2.07E-02	1.03E+01
360	1.62E+00	8.88E+01	2.65E-01	9.19E-04	2.41E-02	9.27E+00
370	1.84E+00	8.95E+01	2.29E-01	7.38E-04	2.80E-02	8.34E+00
380	2.07E+00	9.02E+01	1.99E-01	5.93E-04	3.25E-02	7.50E+00
390	2.33E+00	9.07E+01	1.72E-01	4.76E-04	3.76E-02	6.71E+00
400	2.62E+00	9.11E+01	1.49E-01	3.82E-04	4.35E-02	6.05E+00
410	2.94E+00	9.14E+01	1.29E-01	3.06E-04	5.02E-02	5.13E+00
420	3.30E+00	9.17E+01	1.11E-01	2.46E-04	5.78E-02	4.87E+00
430	3.69E+00	9.18E+01	9.58E-02	1.97E-04	6.65E-02	4.36E+00
440	4.13E+00	9.18E+01	8.27E-02	1.58E-04	7.65E-02	3.90E+00
450	4.61E+00	9.17E+01	7.13E-02	1.26E-04	8.77E-02	3.49E+00
460	5.13E+00	9.16E+01	6.14E-02	1.01E-04	1.01E-01	3.12E+00
470	5.71E+00	9.13E+01	5.29E-02	8.10E-05	1.15E-01	2.79E+00
480	6.35E+00	9.10E+01	4.56E-02	6.48E-05	1.31E-01	2.49E+00
490	7.05E+00	9.05E+01	3.92E-02	5.19E-05	1.50E-01	2.22E+00
500	7.81E+00	9.00E+01	3.37E-02	4.15E-05	1.71E-01	1.98E+00
510	8.65E+00	8.94E+01	2.89E-02	3.31E-05	1.94E-01	1.77E+00
520	9.56E+00	8.86E+01	2.48E-02	2.65E-05	2.20E-01	1.57E+00
530	1.05E+01	8.78E+01	2.13E-02	2.11E-05	2.50E-01	1.10E+00
540	1.16E+01	8.68E+01	1.81E-02	1.68E-05	2.83E-01	1.24E+00
550	1.28E+01	8.58E+01	1.56E-02	1.34E-05	3.19E-01	1.10E+00
560	1.40E+01	8.46E+01	1.34E-02	1.07E-05	3.60E-01	9.76E-01
570	1.54E+01	8.33E+01	1.14E-02	8.51E-06	4.05E-01	8.64E-01
580	1.68E+01	8.20E+01	9.75E-03	6.76E-06	4.55E-01	7.64E-01
590	1.84E+01	8.05E+01	8.31E-03	5.37E-06	5.10E-01	6.74E-01
600	2.00E+01	7.88E+01	7.07E-03	4.26E-06	5.71E-01	5.94E-01
610	2.17E+01	7.71E+01	6.01E-03	3.37E-06	6.37E-01	5.23E-01
620	2.36E+01	7.53E+01	5.10E-03	2.67E-06	7.09E-01	4.60E-01
630	2.55E+01	7.33E+01	4.32E-03	2.14E-06	7.88E-01	4.03E-01
640	2.75E+01	7.13E+01	3.65E-03	1.66E-06	8.72E-01	3.53E-01
650	2.96E+01	6.91E+01	3.08E-03	1.31E-06	9.64E-01	3.09E-01
660	3.18E+01	6.69E+01	2.60E-03	1.04E-06	1.06E+00	2.69E-01
670	3.40E+01	6.46E+01	2.18E-03	8.07E-07	1.17E+00	2.34E-01
680	3.63E+01	6.22E+01	1.83E-03	6.32E-07	1.28E+00	2.03E-01
690	3.87E+01	5.97E+01	1.53E-03	4.92E-07	1.40E+00	1.76E-01
700	4.11E+01	5.72E+01	1.28E-03	3.85E-07	1.52E+00	1.52E-01

Продолжение табл. 5

$Z_{\text{СМ}}$	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
710	4.35E+01	5.47E+01	1.07E-03	3.00E-07	1.65E+00	1.31E-01
720	4.60E+01	5.21E+01	8.88E-04	2.33E-07	1.79E+00	1.13E-01
730	4.84E+01	4.96E+01	7.37E-04	1.81E-07	1.94E+00	9.71E-02
740	5.08E+01	4.70E+01	6.11E-04	1.40E-07	2.08E+00	8.32E-02
750	5.32E+01	4.45E+01	5.05E-04	1.08E-07	2.24E+00	7.12E-02
760	5.55E+01	4.20E+01	4.16E-04	8.34E-08	2.40E+00	6.07E-02
770	5.78E+01	3.95E+01	3.43E-04	6.42E-08	2.56E+00	5.17E-02
780	6.01E+01	3.71E+01	2.82E-04	4.93E-08	2.73E+00	4.39E-02
790	6.22E+01	3.48E+01	2.31E-04	3.78E-08	2.90E+00	3.72E-02
800	6.43E+01	3.26E+01	1.89E-04	2.90E-08	3.07E+00	3.15E-02

D-82; LAT-80; LON-45; IT-12; F-150; FAV-150; A_p-3; UT1 9

80	5.36E-04	1.23E-03	2.08E+01	9.21E-01	1.41E-05	7.83E+01
90	5.90E-04	3.14E-01	2.03E+01	8.95E-01	8.91E-05	7.85E+01
100	9.55E-04	3.56E+00	1.80E+01	7.65E-01	1.51E-04	7.77E+01
110	2.35E-03	1.03E+01	1.36E+01	5.47E-01	3.23E-04	7.55E+01
120	5.97E-03	1.79E+01	9.40E+00	3.67E-01	5.25E-04	7.24E+01
130	1.37E-02	2.40E+01	7.07E+00	2.62E-01	6.26E-04	6.87E+01
140	2.47E-02	2.89E+01	5.90E+00	1.96E-01	6.32E-04	6.50E+01
150	3.70E-02	3.31E+01	5.15E+00	1.52E-01	6.20E-04	6.15E+01
160	5.14E-02	3.71E+01	4.59E+00	1.21E-01	6.25E-04	5.82E+01
170	6.86E-02	4.09E+01	4.10E+00	9.66E-02	6.60E-04	5.49E+01
180	8.88E-02	4.45E+01	3.67E+00	7.82E-02	7.30E-04	5.16E+01
190	1.13E-01	4.81E+01	3.29E+00	6.35E-02	8.37E-04	4.85E+01
200	1.40E-01	5.15E+01	2.94E+00	5.18E-02	9.84E-04	4.54E+01
210	1.73E-01	5.48E+01	2.62E+00	4.23E-02	1.18E-03	4.23E+01
220	2.10E-01	5.80E+01	2.34E+00	3.45E-02	1.42E-03	3.94E+01
230	2.53E-01	6.11E+01	2.08E+00	2.81E-02	1.72E-03	3.65E+01
240	3.03E-01	6.41E+01	1.84E+00	2.29E-02	2.08E-03	3.38E+01
250	3.60E-01	6.69E+01	1.63E+00	1.87E-02	2.52E-03	3.11E+01
260	4.25E-01	6.95E+01	1.44E+00	1.52E-02	3.05E-03	2.86E+01
270	4.99E-01	7.20E+01	1.26E+00	1.23E-02	3.67E-03	2.62E+01
280	5.82E-01	7.43E+01	1.11E+00	9.97E-03	4.40E-03	2.40E+01
290	6.77E-01	7.64E+01	9.73E-01	8.06E-03	5.27E-03	2.19E+01
300	7.85E-01	7.84E+01	8.51E-01	6.50E-03	6.28E-03	1.99E+01
310	9.07E-01	8.02E+01	7.43E-01	5.25E-03	7.47E-03	1.81E+01
320	1.04E+00	8.19E+01	6.47E-01	4.22E-03	8.84E-03	1.64E+01
330	1.20E+00	8.34E+01	5.63E-01	3.39E-03	1.04E-02	1.49E+01
340	1.37E+00	8.47E+01	4.89E-01	2.73E-03	1.23E-02	1.34E+01
350	1.56E+00	8.59E+01	4.24E-01	2.19E-03	1.44E-02	1.21E+01
360	1.78E+00	8.69E+01	3.67E-01	1.75E-03	1.69E-02	1.09E+01
370	2.02E+00	8.78E+01	3.18E-01	1.40E-03	1.98E-02	9.80E+00
380	2.28E+00	8.86E+01	2.74E-01	1.12E-03	2.31E-02	8.80E+00
390	2.58E+00	8.93E+01	2.37E-01	8.95E-04	2.69E-02	7.90E+00
400	2.92E+00	8.98E+01	2.04E-01	7.15E-04	3.12E-02	7.08E+00

z , км	H /S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
410	3.29E+00	9.02E+01	1.76E-01	5.71E-04	3.62E-02	6.34E+00
420	3.70E+00	9.04E+01	1.52E-01	4.55E-04	4.19E-02	5.67E+00
430	4.15E+00	9.06E+01	1.30E-01	3.63E-04	4.84E-02	5.06E+00
440	4.66E+00	9.07E+01	1.12E-01	2.89E-04	5.59E-02	4.52E+00
450	5.21E+00	9.08E+01	9.63E-02	2.30E-04	6.43E-02	4.03E+00
460	5.83E+00	9.04E+01	8.26E-02	1.83E-04	7.40E-02	3.59E+00
470	6.50E+00	9.01E+01	7.08E-02	1.46E-04	8.49E-02	3.20E+00
480	7.25E+00	8.97E+01	6.07E-02	1.16E-04	9.73E-02	2.85E+00
490	8.06E+00	8.92E+01	5.20E-02	9.20E-05	1.11E-01	2.53E+00
500	8.95E+00	8.86E+01	4.45E-02	7.31E-05	1.27E-01	2.25E+00
510	9.93E+00	8.79E+01	3.80E-02	5.80E-05	1.45E-01	1.99E+00
520	1.10E+01	8.70E+01	3.24E-02	4.60E-05	1.65E-01	1.77E+00
530	1.21E+01	8.61E+01	2.77E-02	3.64E-05	1.87E-01	1.56E+00
540	1.34E+01	8.50E+01	2.36E-02	2.89E-05	2.13E-01	1.38E+00
550	1.47E+01	8.38E+01	2.01E-02	2.28E-05	2.40E-01	1.22E+00
560	1.62E+01	8.24E+01	1.71E-02	1.80E-05	2.72E-01	1.08E+00
570	1.77E+01	8.10E+01	1.45E-02	1.42E-05	3.06E-01	9.47E-01
580	1.94E+01	7.94E+01	1.23E-02	1.12E-05	3.44E-01	8.32E-01
590	2.12E+01	7.77E+01	1.04E-02	8.80E-06	3.86E-01	7.30E-01
600	2.31E+01	7.59E+01	8.77E-03	6.92E-06	4.31E-01	6.40E-01
610	2.50E+01	7.39E+01	7.39E-03	5.42E-06	4.81E-01	5.59E-01
620	2.71E+01	7.19E+01	6.22E-03	4.25E-06	5.35E-01	4.88E-01
630	2.93E+01	6.97E+01	5.23E-03	3.32E-06	5.94E-01	4.25E-01
640	3.15E+01	6.74E+01	4.38E-03	2.59E-06	6.57E-01	3.69E-01
650	3.39E+01	6.51E+01	3.67E-03	2.02E-06	7.25E-01	3.20E-01
660	3.63E+01	6.26E+01	3.06E-03	1.57E-06	7.98E-01	2.77E-01
670	3.88E+01	6.01E+01	2.55E-03	1.22E-06	8.75E-01	2.39E-01
680	4.13E+01	5.76E+01	2.12E-03	9.43E-07	9.57E-01	2.06E-01
690	4.38E+01	5.50E+01	1.76E-03	7.28E-07	1.04E+00	1.77E-01
700	4.64E+01	5.23E+01	1.45E-03	5.62E-07	1.13E+00	1.51E-01
710	4.89E+01	4.97E+01	1.20E-03	4.32E-07	1.23E+00	1.29E-01
720	5.15E+01	4.71E+01	9.88E-04	3.32E-07	1.33E+00	1.10E-01
730	5.40E+01	4.45E+01	8.11E-04	2.54E-07	1.43E+00	9.99E-02
740	5.65E+01	4.19E+01	6.65E-04	1.94E-07	1.53E+00	9.37E-02
750	5.89E+01	3.94E+01	5.44E-04	1.48E-07	1.64E+00	8.75E-02
760	6.13E+01	3.69E+01	4.44E-04	1.13E-07	1.75E+00	8.07E-02
770	6.35E+01	3.45E+01	3.62E-04	8.59E-08	1.86E+00	7.41E-02
780	6.57E+01	3.22E+01	2.94E-04	6.52E-08	1.98E+00	6.75E-02
790	6.79E+01	3.00E+01	2.39E-04	4.94E-08	2.10E+00	6.10E-02
800	6.99E+01	2.79E+01	1.93E-04	3.74E-08	2.21E+00	5.55E-02

D-82, LAT-40; LON-45, UT 12; F-150, FAV-150; A_p-3, UT1-9

80	5.41E-04	1.31E-03	2.08E-01	8.94E-01	1.50E-05	7.83E+01
90	6.08E-04	1.37E-03	2.33E-01	8.51E-01	9.74E-05	7.85E+01
100	9.52E-04	3.79E-03	1.81E-01	7.13E-01	1.53E-04	7.74E+01

z, км	H/S, %	O/S ₁ , %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.44E-03	1.13E+01	1.36E+01	4.72E-01	3.41E-04	7.46E+01
120	6.80E-03	2.02E+01	9.27E+00	2.88E-01	6.24E-04	7.03E+01
130	1.58E-02	2.72E+01	6.92E+00	1.91E-01	7.61E-04	6.57E+01
140	2.88E-02	3.28E+01	5.70E+00	1.35E-01	7.88E-04	6.14E+01
150	4.30E-02	3.76E+01	4.92E+00	1.00E-01	7.85E-04	5.73E+01
160	5.95E-02	4.20E+01	4.32E+00	7.64E-02	7.98E-04	5.35E+01
170	7.86E-02	4.62E+01	3.82E+00	5.97E-02	8.46E-04	4.99E+01
180	1.01E-01	5.01E+01	3.38E+00	4.73E-02	9.35E-04	4.64E+01
190	1.27E-01	5.38E+01	2.99E+00	3.78E-02	1.07E-03	4.31E+01
200	1.56E-01	5.73E+01	2.64E+00	3.04E-02	1.25E-03	3.99E+01
210	1.90E-01	6.06E+01	2.34E+00	2.46E-02	1.48E-03	3.68E+01
220	2.29E-01	6.37E+01	2.06E+00	1.99E-02	1.76E-03	3.39E+01
230	2.73E-01	6.67E+01	1.82E+00	1.61E-02	2.11E-03	3.12E+01
240	3.23E-01	6.94E+01	1.60E+00	1.30E-02	2.54E-03	2.86E+01
250	3.79E-01	7.20E+01	1.41E+00	1.05E-02	3.04E-03	2.62E+01
260	4.43E-01	7.44E+01	1.23E+00	8.52E-03	3.63E-03	2.39E+01
270	5.15E-01	7.66E+01	1.08E+00	6.89E-03	4.33E-03	2.18E+01
280	5.96E-01	7.86E+01	9.44E-01	5.56E-03	5.15E-03	1.98E+01
290	6.88E-01	8.04E+01	8.24E-01	4.49E-03	6.10E-03	1.80E+01
300	7.90E-01	8.21E+01	7.19E-01	3.62E-03	7.21E-03	1.64E+01
310	9.02E-01	8.37E+01	6.24E-01	2.91E-03	8.47E-03	1.48E+01
320	1.03E+00	8.51E+01	5.43E-01	2.34E-03	9.96E-03	1.34E+01
330	1.17E+00	8.63E+01	4.72E-01	1.88E-03	1.17E-02	1.21E+01
340	1.34E+00	8.73E+01	4.10E-01	1.52E-03	1.37E-02	1.09E+01
350	1.51E+00	8.83E+01	3.56E-01	1.22E-03	1.59E-02	9.82E+00
360	1.71E+00	8.91E+01	3.08E-01	9.78E-04	1.86E-02	8.84E+00
370	1.94E+00	8.98E+01	2.67E-01	7.85E-04	2.16E-02	7.95E+00
380	2.18E+00	9.04E+01	2.31E-01	6.30E-04	2.50E-02	7.14E+00
390	2.46E+00	9.09E+01	2.00E-01	5.05E-04	2.90E-02	6.42E+00
400	2.76E+00	9.13E+01	1.73E-01	4.05E-04	3.35E-02	5.76E+00
410	3.10E+00	9.16E+01	1.49E-01	3.25E-04	3.87E-02	5.16E+00
420	3.48E+00	9.17E+01	1.29E-01	2.60E-04	4.46E-02	4.62E+00
430	3.89E+00	9.18E+01	1.11E-01	2.08E-04	5.13E-02	4.14E+00
440	4.35E+00	9.18E+01	9.57E-02	1.67E-04	5.89E-02	3.70E+00
450	4.85E+00	9.17E+01	8.25E-02	1.33E-04	6.76E-02	3.31E+00
460	5.40E+00	9.15E+01	7.10E-02	1.07E-04	7.75E-02	2.96E+00
470	6.01E+00	9.12E+01	6.11E-02	8.54E-05	8.86E-02	2.64E+00
480	6.68E+00	9.08E+01	5.26E-02	6.82E-05	1.01E-01	2.36E+00
490	7.42E+00	9.03E+01	4.52E-02	5.45E-05	1.15E-01	2.10E+00
500	8.22E+00	8.97E+01	3.88E-02	4.36E-05	1.31E-01	1.87E+00
510	9.10E+00	8.91E+01	3.33E-02	3.48E-05	1.49E-01	1.67E+00
520	1.00E+01	8.83E+01	2.86E-02	2.77E-05	1.70E-01	1.48E+00
530	1.11E+01	8.74E+01	2.45E-02	2.21E-05	1.92E-01	1.32E+00
540	1.22E+01	8.64E+01	2.10E-02	1.76E-05	2.18E-01	1.17E+00
550	1.34E+01	8.53E+01	1.79E-02	1.40E-05	2.46E-01	1.04E+00
560	1.47E+01	8.41E+01	1.53E-02	1.12E-05	2.77E-01	9.17E-01
570	1.61E+01	8.27E+01	1.31E-02	8.87E-06	3.11E-01	8.11E-01
580	1.76E+01	8.13E+01	1.11E-02	7.04E-06	3.50E-01	7.16E-01
590	1.92E+01	7.97E+01	9.49E-03	5.58E-06	3.92E-01	6.32E-01
600	2.09E+01	7.81E+01	8.07E-03	4.42E-06	4.38E-01	5.56E-01

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	2.27E+01	7.63E+01	6.85E-03	3.50E-06	4.88E-01	4.89E-01
620	2.46E+01	7.44E+01	5.80E-03	2.76E-06	5.43E-01	4.29E-01
630	2.66E+01	7.24E+01	4.91E-03	2.18E-06	6.03E-01	3.76E-01
640	2.87E+01	7.03E+01	4.14E-03	1.72E-06	6.67E-01	3.29E-01
650	3.09E+01	6.81E+01	3.49E-03	1.35E-06	7.37E-01	2.87E-01
660	3.31E+01	6.58E+01	2.94E-03	1.06E-06	8.11E-01	2.50E-01
670	3.54E+01	6.35E+01	2.47E-03	8.29E-07	8.90E-01	2.17E-01
680	3.78E+01	6.10E+01	2.07E-03	6.48E-07	9.75E-01	1.88E-01
690	4.02E+01	5.86E+01	1.73E-03	5.06E-07	1.06E+00	1.63E-01
700	4.27E+01	5.60E+01	1.41E-03	3.94E-07	1.16E+00	1.41E-01
710	4.51E+01	5.35E+01	1.20E-03	3.06E-07	1.26E+00	1.21E-01
720	4.76E+01	5.09E+01	9.96E-04	2.37E-07	1.36E+00	1.04E-01
730	5.01E+01	4.84E+01	8.25E-04	1.84E-07	1.47E+00	8.93E-02
740	5.25E+01	4.58E+01	6.82E-04	1.42E-07	1.58E+00	7.64E-02
750	5.49E+01	4.33E+01	5.63E-04	1.10E-07	1.69E+00	6.52E-02
760	5.73E+01	4.08E+01	4.64E-04	8.43E-08	1.81E+00	5.55E-02
770	5.96E+01	3.84E+01	3.81E-04	6.48E-08	1.94E+00	4.72E-02
780	6.19E+01	3.60E+01	3.13E-04	4.97E-08	2.06E+00	4.01E-02
790	6.41E+01	3.37E+01	2.56E-04	3.81E-08	2.19E+00	3.39E-02
800	6.61E+01	3.15E+01	2.09E-04	2.91E-08	2.31E+00	2.87E-02

D-82; LAT-80; LON-45; LT-12, F-150, FAV-150; A_p-3; UT1-9

80	5.42E-04	1.16E-03	2.08E+01	9.19E-01	1.54E-05	7.82E+01
90	6.02E-04	2.93E-01	2.04E+01	8.90E-01	9.98E-05	7.84E+01
100	9.51E-04	3.26E+00	1.86E+01	7.64E-01	1.65E-04	7.74E+01
110	2.36E-03	9.45E+00	1.48E+01	5.40E-01	3.62E-04	7.52E+01
120	5.93E-03	1.65E+01	1.10E+01	3.58E-01	6.38E-04	7.22E+01
130	1.19E-02	2.21E+01	8.75E+00	2.56E-01	8.06E-04	6.89E+01
140	1.96E-02	2.66E+01	7.50E+00	1.94E-01	8.56E-04	6.57E+01
150	2.91E-02	3.04E+01	6.65E+00	1.51E-01	8.75E-04	6.27E+01
160	4.07E-02	3.41E+01	5.99E+00	1.21E-01	9.14E-04	5.98E+01
170	5.46E-02	3.75E+01	5.41E+00	9.83E-02	9.91E-04	5.69E+01
180	7.11E-02	4.08E+01	4.90E+00	8.03E-02	1.12E-03	5.41E+01
190	9.06E-02	4.41E+01	4.43E+00	6.64E-02	1.30E-03	5.13E+01
200	1.13E-01	4.73E+01	4.01E+00	5.19E-02	1.54E-03	4.86E+01
210	1.40E-01	5.04E+01	3.63E+00	4.55E-02	1.86E-03	4.58E+01
220	1.71E-01	5.34E+01	3.27E+00	3.77E-02	2.25E-03	4.31E+01
230	2.07E-01	5.64E+01	2.94E+00	3.13E-02	2.71E-03	4.04E+01
240	2.48E-01	5.93E+01	2.64E+00	2.59E-02	3.33E-03	3.78E+01
250	2.95E-01	6.21E+01	2.37E+00	2.14E-02	4.03E-03	3.52E+01
260	3.48E-01	6.48E+01	2.12E+00	1.77E-02	4.88E-03	3.28E+01
270	4.09E-01	6.73E+01	1.89E+00	1.46E-02	5.87E-03	3.04E+01
280	4.78E-01	6.97E+01	1.68E+00	1.20E-02	7.05E-03	2.81E+01
290	5.57E-01	7.20E+01	1.49E+00	9.87E-03	8.24E-03	2.59E+01
300	6.45E-01	7.42E+01	1.32E+00	8.09E-03	1.00E-02	2.38E+01

Z_{100}	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	7.48E-01	7.61E+01	1.17E+00	6.66E-03	1.20E-02	2.20E+01
320	8.59E-01	7.80E+01	1.03E+00	5.45E-03	1.41E-02	2.01E+01
330	9.83E-01	7.97E+01	9.08E-01	4.44E-03	1.66E-02	1.84E+01
340	1.12E+00	8.13E+01	7.98E-01	3.62E-03	1.95E-02	1.67E+01
350	1.28E+00	8.27E+01	7.00E-01	2.95E-03	2.28E-02	1.52E+01
360	1.45E+00	8.41E+01	6.13E-01	2.40E-03	2.67E-02	1.39E+01
370	1.64E+00	8.52E+01	5.36E-01	1.95E-03	3.10E-02	1.26E+01
380	1.86E+00	8.62E+01	4.68E-01	1.58E-03	3.61E-02	1.14E+01
390	2.10E+00	8.71E+01	4.09E-01	1.28E-03	4.18E-02	1.03E+01
400	2.36E+00	8.79E+01	3.56E-01	1.04E-03	4.84E-02	9.33E+00
410	2.65E+00	8.86E+01	3.10E-01	8.41E-04	5.59E-02	8.42E+00
420	2.98E+00	8.91E+01	2.70E-01	6.81E-04	6.44E-02	7.60E+00
430	3.33E+00	8.95E+01	2.35E-01	5.50E-04	7.42E-02	6.85E+00
440	3.73E+00	8.98E+01	2.04E-01	4.45E-04	8.52E-02	6.17E+00
450	4.16E+00	9.00E+01	1.77E-01	3.59E-04	9.77E-02	5.55E+00
460	4.64E+00	9.01E+01	1.53E-01	2.90E-04	1.12E-01	4.99E+00
470	5.16E+00	9.01E+01	1.33E-01	2.34E-04	1.28E-01	4.48E+00
480	5.74E+00	9.00E+01	1.15E-01	1.89E-04	1.46E-01	4.02E+00
490	6.37E+00	8.98E+01	9.96E-02	1.52E-04	1.66E-01	3.61E+00
500	7.06E+00	8.94E+01	8.62E-02	1.23E-04	1.89E-01	3.23E+00
510	7.81E+00	8.90E+01	7.45E-02	9.87E-05	2.15E-01	2.89E+00
520	8.63E+00	8.85E+01	6.43E-02	7.94E-05	2.44E-01	2.59E+00
530	9.52E+00	8.78E+01	5.55E-02	6.39E-05	2.76E-01	2.31E+00
540	1.05E+01	8.71E+01	4.78E-02	5.14E-05	3.13E-01	2.06E+00
550	1.15E+01	8.62E+01	4.12E-02	4.12E-05	3.53E-01	1.84E+00
560	1.26E+01	8.53E+01	3.54E-02	3.31E-05	3.97E-01	1.64E+00
570	1.39E+01	8.42E+01	3.05E-02	2.65E-05	4.47E-01	1.46E+00
580	1.52E+01	8.30E+01	2.61E-02	2.13E-05	5.02E-01	1.30E+00
590	1.65E+01	8.17E+01	2.24E-02	1.70E-05	5.62E-01	1.15E+00
600	1.80E+01	8.03E+01	1.92E-02	1.36E-05	6.28E-01	1.02E+00
610	1.96E+01	7.88E+01	1.64E-02	1.09E-05	7.01E-01	9.03E-01
620	2.13E+01	7.71E+01	1.40E-02	8.66E-06	7.80E-01	7.98E-01
630	2.30E+01	7.54E+01	1.20E-02	6.90E-06	8.67E-01	7.04E-01
640	2.49E+01	7.35E+01	1.02E-02	5.49E-06	9.60E-01	6.20E-01
650	2.68E+01	7.16E+01	8.65E-03	4.36E-06	1.06E+00	5.45E-01
660	2.88E+01	6.95E+01	7.34E-03	3.46E-06	1.17E+00	4.79E-01
670	3.09E+01	6.74E+01	6.22E-03	2.74E-06	1.29E+00	4.19E-01
680	3.30E+01	6.52E+01	5.26E-03	2.16E-06	1.41E+00	3.66E-01
690	3.53E+01	6.29E+01	4.44E-03	1.71E-06	1.54E+00	3.20E-01
700	3.75E+01	6.05E+01	3.73E-03	1.34E-06	1.69E+00	2.78E-01
710	3.98E+01	5.81E+01	3.14E-03	1.06E-06	1.83E+00	2.42E-01
720	4.21E+01	5.57E+01	2.63E-03	8.30E-07	1.99E+00	2.10E-01
730	4.45E+01	5.32E+01	2.20E-03	6.50E-07	2.15E+00	1.81E-01
740	4.68E+01	5.07E+01	1.84E-03	5.08E-07	2.32E+00	1.57E-01
750	4.91E+01	4.82E+01	1.53E-03	3.96E-07	2.50E+00	1.35E-01
760	5.15E+01	4.57E+01	1.28E-03	3.09E-07	2.68E+00	1.16E-01
770	5.37E+01	4.33E+01	1.06E-03	2.40E-07	2.87E+00	9.95E-02
780	5.60E+01	4.09E+01	8.78E-04	1.86E-07	3.06E+00	8.52E-02
790	5.81E+01	3.85E+01	7.26E-04	1.44E-07	3.26E+00	7.28E-02
800	6.03E+01	3.62E+01	5.99E-04	1.12E-07	3.46E+00	6.21E-02

Широтные вариации состава при высокой солнечной активности для условий
весеннего равноденствия в северном и осеннего в южном полушариях

$Z_{\text{ам}}$	H_2/S_2	O/S_2	C_2/S_2	Ar^*/S_2	H/S_2	N_2/S_2
<i>D</i> —82, <i>LAT</i> —0, <i>LOX</i> —45, <i>UT</i> —12, <i>F</i> —200, <i>FAV</i> —200, <i>A_p</i> —3; <i>UT</i> —9						
80	5.54E-04	1.33E-03	2.08E+01	8.95E-01	1.45E-03	7.84E+01
90	6.16E-04	3.41E-01	2.02E+01	8.58E-01	8.85E-05	7.86E+01
100	9.55E-04	3.84E+00	1.78E+01	7.26E-01	1.28E-04	7.77E+01
110	2.47E-03	1.18E+01	1.27E+01	4.71E-01	2.80E-04	7.50E+01
120	5.25E-03	2.03E+01	8.32E+00	3.05E-01	3.85E-04	7.11E+01
130	1.04E-02	2.63E+01	6.17E+00	2.18E-01	3.78E-04	6.73E+01
140	1.86E-02	3.12E+01	5.10E+00	1.61E-01	3.53E-04	6.35E+01
150	2.81E-02	3.57E+01	4.42E+00	1.22E-01	3.41E-04	5.98E+01
160	3.93E-02	3.99E+01	3.91E+00	9.44E-02	3.45E-04	5.60E+01
170	5.25E-02	4.39E+01	3.47E+00	7.45E-02	3.67E-04	5.25E+01
180	6.78E-02	4.77E+01	3.09E+00	5.97E-02	4.07E-04	4.91E+01
190	8.60E-02	5.13E+01	2.75E+00	4.82E-02	4.69E-04	4.58E+01
200	1.06E-01	5.47E+01	2.46E+00	3.93E-02	5.49E-04	4.27E+01
210	1.29E-01	5.79E+01	2.19E+00	3.23E-02	6.49E-04	3.97E+01
220	1.55E-01	6.09E+01	1.96E+00	2.66E-02	7.70E-04	3.70E+01
230	1.83E-01	6.37E+01	1.75E+00	2.20E-02	9.15E-04	3.43E+01
240	2.15E-01	6.63E+01	1.57E+00	1.82E-02	1.09E-03	3.19E+01
250	2.50E-01	6.88E+01	1.40E+00	1.51E-02	1.28E-03	2.95E+01
260	2.89E-01	7.11E+01	1.25E+00	1.26E-02	1.51E-03	2.73E+01
270	3.32E-01	7.33E+01	1.12E+00	1.05E-02	1.78E-03	2.53E+01
280	3.79E-01	7.52E+01	9.96E-01	8.71E-03	2.08E-03	2.34E+01
290	4.32E-01	7.71E+01	8.88E-01	7.26E-03	2.42E-03	2.16E+01
300	4.89E-01	7.88E+01	7.92E-01	6.04E-03	2.81E-03	1.99E+01
310	5.50E-01	8.05E+01	7.03E-01	5.02E-03	3.24E-03	1.83E+01
320	6.20E-01	8.19E+01	6.26E-01	4.18E-03	3.74E-03	1.68E+01
330	6.97E-01	8.33E+01	5.57E-01	3.48E-03	4.31E-03	1.55E+01
340	7.82E-01	8.45E+01	4.95E-01	2.89E-03	4.96E-03	1.42E+01
350	8.76E-01	8.56E+01	4.39E-01	2.40E-03	5.69E-03	1.30E+01
360	9.79E-01	8.67E+01	3.90E-01	2.00E-03	6.52E-03	1.20E+01
370	1.09E+00	8.76E+01	3.46E-01	1.66E-03	7.45E-03	1.10E+01
380	1.22E+00	8.84E+01	3.06E-01	1.37E-03	8.51E-03	1.00E+01
390	1.35E+00	8.92E+01	2.71E-01	1.14E-03	9.69E-03	9.17E+00
400	1.53E+00	8.99E+01	2.36E-01	9.25E-04	1.13E-02	8.30E+00
410	1.70E+00	9.05E+01	2.09E-01	7.67E-04	1.28E-02	7.58E+00
420	1.88E+00	9.19E+01	1.85E-01	6.36E-04	1.46E-02	6.92E+00
430	2.09E+00	9.41E+01	1.64E-01	5.27E-04	1.65E-02	6.31E+00
440	2.30E+00	9.48E+01	1.41E-01	4.36E-04	1.87E-02	5.76E+00
450	2.54E+00	9.24E+01	1.27E-01	3.61E-04	2.11E-02	5.25E+00
460	2.81E+00	9.23E+01	1.12E-01	2.99E-04	2.39E-02	4.78E+00
470	3.09E+00	9.24E+01	9.92E-02	2.48E-04	2.69E-02	4.35E+00
480	3.40E+00	9.25E+01	8.75E-02	2.05E-04	3.03E-02	3.96E+00
490	3.74E+00	9.25E+01	7.71E-02	1.70E-04	3.42E-02	3.61E+00
500	4.11E+00	9.25E+01	6.80E-02	1.41E-04	3.84E-02	3.28E+00

Продолжение табл. 6

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
510	4.51E+00	9.24E+01	5.99E-02	1.16E-04	4.32E-02	2.98E+00
520	4.94E+00	9.22E+01	5.28E-02	9.64E-05	4.85E-02	2.71E+00
530	5.42E+00	9.20E+01	4.65E-02	7.97E-05	5.43E-02	2.46E+00
540	5.93E+00	9.17E+01	4.09E-02	6.60E-05	6.08E-02	2.24E+00
550	6.48E+00	9.14E+01	3.60E-02	5.46E-05	6.81E-02	2.03E+00
560	7.07E+00	9.10E+01	3.17E-02	4.51E-05	7.61E-02	1.84E+00
570	7.72E+00	9.05E+01	2.79E-02	3.73E-05	8.50E-02	1.67E+00
580	8.41E+00	9.00E+01	2.45E-02	3.09E-05	9.47E-02	1.52E+00
590	9.16E+00	8.93E+01	2.15E-02	2.55E-05	1.06E-01	1.37E+00
600	9.96E+00	8.87E+01	1.89E-02	2.11E-05	1.17E-01	1.24E+00
610	1.08E+01	8.79E+01	1.66E-02	1.74E-05	1.31E-01	1.13E+00
620	1.17E+01	8.71E+01	1.46E-02	1.44E-05	1.45E-01	1.02E+00
630	1.27E+01	8.62E+01	1.28E-02	1.19E-05	1.61E-01	9.20E-01
640	1.38E+01	8.52E+01	1.12E-02	9.79E-06	1.78E-01	8.31E-01
650	1.49E+01	8.42E+01	9.80E-03	8.07E-06	1.97E-01	7.50E-01
660	1.61E+01	8.30E+01	8.58E-03	6.65E-06	2.17E-01	6.76E-01
670	1.73E+01	8.18E+01	7.50E-03	5.48E-06	2.39E-01	6.09E-01
680	1.86E+01	8.05E+01	6.55E-03	4.51E-06	2.63E-01	5.48E-01
690	2.00E+01	7.92E+01	5.72E-03	3.71E-06	2.90E-01	4.93E-01
700	2.15E+01	7.77E+01	4.99E-03	3.05E-06	3.18E-01	4.43E-01
710	2.30E+01	7.62E+01	4.34E-03	2.50E-06	3.48E-01	3.97E-01
720	2.46E+01	7.46E+01	3.78E-03	2.05E-06	3.81E-01	3.56E-01
730	2.63E+01	7.29E+01	3.28E-03	1.68E-06	4.15E-01	3.19E-01
740	2.81E+01	7.12E+01	2.85E-03	1.38E-06	4.53E-01	2.85E-01
750	2.98E+01	6.94E+01	2.47E-03	1.13E-06	4.92E-01	2.54E-01
760	3.17E+01	6.75E+01	2.14E-03	9.20E-07	5.34E-01	2.27E-01
770	3.36E+01	6.56E+01	1.85E-03	7.51E-07	5.79E-01	2.02E-01
780	3.56E+01	6.36E+01	1.60E-03	6.12E-07	6.26E-01	1.79E-01
790	3.75E+01	6.16E+01	1.38E-03	4.98E-07	6.76E-01	1.59E-01
800	3.96E+01	5.96E+01	1.19E-03	4.05E-07	7.28E-01	1.41E-01
D- 82; LAT-40; LON-45; LT-12; F- 200; FΔV-200; A _p -3; UT1-9						
80	5.41E-04	1.35E-03	2.08E+01	8.83E-01	1.42E-05	7.84E+01
90	6.07E-04	3.50E-01	2.01E+01	8.35E-01	8.91E-05	7.87E+01
100	9.58E-04	3.98E+00	1.75E+01	6.91E-01	1.39E-04	7.78E+01
110	2.26E-03	1.19E+01	1.23E+01	4.54E-01	2.79E-04	7.53E+01
120	4.79E-03	2.02E+01	7.87E+00	2.92E-01	3.82E-04	7.16E+01
130	1.01E-02	2.61E+01	5.72E+00	2.05E-01	3.76E-04	6.80E+01
140	1.88E-02	3.09E+01	4.70E+00	1.49E-01	3.54E-04	6.42E+01
150	2.85E-02	3.54E+01	4.07E+00	1.10E-01	3.44E-04	6.04E+01
160	4.00E-02	3.97E+01	3.58E+00	8.40E-02	3.54E-04	5.65E+01
170	5.37E-02	4.39E+01	3.17E+00	6.53E-02	3.83E-04	5.28E+01
180	6.99E-02	4.79E+01	2.81E+00	5.17E-02	4.32E-04	4.92E+01
190	8.93E-02	5.17E+01	2.49E+00	4.12E-02	5.04E-04	4.57E+01
200	1.11E-01	5.52E+01	2.21E+00	3.33E-02	5.96E-04	4.24E+01

z, км	H/S, %	O/S, %	Os/S, %	Ar/S, %	H/S, %	Na/S, %
210	1.35E-01	5.85E+01	1.96E+00	2.71E-02	7.10E-04	3.93E+01
220	1.63E-01	6.16E+01	1.74E+00	2.21E-02	8.49E-04	3.64E+01
230	1.94E-01	6.45E+01	1.55E+00	1.82E-02	1.01E-03	3.37E+01
240	2.28E-01	6.72E+01	1.38E+00	1.50E-02	1.21E-03	3.12E+01
250	2.66E-01	6.97E+01	1.23E+00	1.24E-02	1.43E-03	2.88E+01
260	3.08E-01	7.20E+01	1.09E+00	1.02E-02	1.69E-03	2.66E+01
270	3.54E-01	7.42E+01	9.71E-01	8.46E-03	1.99E-03	2.45E+01
280	4.05E-01	7.61E+01	8.64E-01	7.01E-03	2.33E-03	2.26E+01
290	4.61E-01	7.80E+01	7.68E-01	5.82E-03	2.72E-03	2.08E+01
300	5.22E-01	7.96E+01	6.83E-01	4.83E-03	3.16E-03	1.91E+01
310	5.86E-01	8.13E+01	6.04E-01	3.99E-03	3.63E-03	1.75E+01
320	6.61E-01	8.27E+01	5.37E-01	3.31E-03	4.20E-03	1.61E+01
330	7.43E-01	8.40E+01	4.77E-01	2.75E-03	4.84E-03	1.48E+01
340	8.34E-01	8.52E+01	4.23E-01	2.28E-03	5.57E-03	1.36E+01
350	9.34E-01	8.63E+01	3.75E-01	1.89E-03	6.39E-03	1.24E+01
360	1.04E+00	8.72E+01	3.32E-01	1.57E-03	7.33E-03	1.14E+01
370	1.17E+00	8.81E+01	2.94E-01	1.30E-03	8.38E-03	1.04E+01
380	1.30E+00	8.89E+01	2.60E-01	1.07E-03	9.57E-03	9.51E+00
390	1.44E+00	8.96E+01	2.30E-01	8.90E-04	1.09E-02	8.69E+00
400	1.62E+00	9.03E+01	2.02E-01	7.29E-04	1.26E-02	7.89E+00
410	1.80E+00	9.08E+01	1.78E-01	6.03E-04	1.43E-02	7.20E+00
420	1.99E+00	9.13E+01	1.57E-01	4.99E-04	1.62E-02	6.57E+00
430	2.20E+00	9.17E+01	1.39E-01	4.13E-04	1.84E-02	5.98E+00
440	2.44E+00	9.20E+01	1.22E-01	3.41E-04	2.08E-02	5.45E+00
450	2.69E+00	9.22E+01	1.08E-01	2.82E-04	2.35E-02	4.96E+00
460	2.97E+00	9.24E+01	9.50E-02	2.33E-04	2.66E-02	4.52E+00
470	3.27E+00	9.25E+01	8.37E-02	1.93E-04	3.00E-02	4.11E+00
480	3.60E+00	9.26E+01	7.37E-02	1.59E-04	3.39E-02	3.73E+00
490	3.96E+00	9.25E+01	6.49E-02	1.32E-04	3.81E-02	3.39E+00
500	4.35E+00	9.25E+01	5.71E-02	1.09E-04	4.29E-02	3.08E+00
510	4.78E+00	9.23E+01	5.03E-02	8.98E-05	4.82E-02	2.80E+00
520	5.24E+00	9.21E+01	4.42E-02	7.42E-05	5.42E-02	2.54E+00
530	5.74E+00	9.19E+01	3.89E-02	6.13E-05	6.08E-02	2.31E+00
540	6.28E+00	9.15E+01	3.42E-02	5.06E-05	6.81E-02	2.09E+00
550	6.87E+00	9.11E+01	3.00E-02	4.18E-05	7.62E-02	1.90E+00
560	7.50E+00	9.07E+01	2.64E-02	3.45E-05	8.52E-02	1.72E+00
570	8.19E+00	9.01E+01	2.32E-02	2.85E-05	9.52E-02	1.56E+00
580	8.92E+00	8.95E+01	2.03E-02	2.35E-05	1.06E-01	1.41E+00
590	9.72E+00	8.89E+01	1.78E-02	1.94E-05	1.18E-01	1.28E+00
600	1.06E+01	8.81E+01	1.56E-02	1.60E-05	1.32E-01	1.15E+00
610	1.15E+01	8.73E+01	1.37E-02	1.32E-05	1.46E-01	1.04E+00
620	1.25E+01	8.64E+01	1.20E-02	1.08E-05	1.62E-01	9.42E-01
630	1.35E+01	8.55E+01	1.05E-02	8.93E-06	1.80E-01	8.50E-01
640	1.46E+01	8.44E+01	9.20E-03	7.35E-06	1.99E-01	7.66E-01
650	1.58E+01	8.33E+01	8.04E-03	6.05E-06	2.20E-01	6.90E-01
660	1.70E+01	8.21E+01	7.02E-03	4.97E-06	2.43E-01	6.21E-01
670	1.84E+01	8.08E+01	6.12E-03	4.08E-06	2.68E-01	5.59E-01
680	1.97E+01	7.95E+01	5.34E-03	3.35E-06	2.95E-01	5.02E-01
690	2.12E+01	7.80E+01	4.65E-03	2.75E-06	3.24E-01	4.50E-01
700	2.27E+01	7.65E+01	4.04E-03	2.25E-06	3.56E-01	4.04E-01

Продолжение табл. 6

z , км	He/S, %	O/S, %	O_2 /S, %	Ar/S, %	H/S, %	N_2 /S, %
710	2.44E+01	7.49E+01	3.52E-03	1.84E-06	3.90E-01	3.62E-01
720	2.60E+01	7.32E+01	3.05E-03	1.51E-06	4.26E-01	3.23E-01
730	2.78E+01	7.15E+01	2.65E-03	1.23E-06	4.64E-01	2.89E-01
740	2.96E+01	6.97E+01	2.29E-03	1.01E-06	5.06E-01	2.58E-01
750	3.14E+01	6.78E+01	1.98E-03	8.20E-07	5.50E-01	2.29E-01
760	3.34E+01	6.58E+01	1.71E-03	6.68E-07	5.96E-01	2.04E-01
770	3.53E+01	6.38E+01	1.48E-03	5.43E-07	6.45E-01	1.81E-01
780	3.73E+01	6.18E+01	1.27E-03	4.41E-07	6.97E-01	1.61E-01
790	3.94E+01	5.97E+01	1.09E-03	3.58E-07	7.51E-01	1.42E-01
800	4.14E+01	5.76E+01	9.39E-04	2.90E-07	8.08E-01	1.26E-01

D—82; LAT—80; LON—45; LT—12; F—200; FAV—200; A_p —3; UTI—9

80	5.37E-04	1.28E-03	2.08E+01	9.19E-01	1.28E-05	7.83E+01
90	5.90E-04	3.28E-01	2.02E+01	8.93E-01	7.73E-05	7.85E+01
100	9.56E-04	3.74E+00	1.78E+01	7.62E-01	1.27E-04	7.77E+01
110	2.39E-03	1.09E+01	1.31E+01	5.41E-01	2.51E-04	7.51E+01
120	6.02E-03	1.89E+01	8.77E+00	3.62E-01	3.89E-04	7.20E+01
130	1.34E-02	2.51E+01	6.48E+00	2.60E-01	1.15E-03	6.82E+01
140	2.36E-02	2.99E+01	5.38E+00	1.97E-01	3.81E-04	6.45E+01
150	3.45E-02	3.40E+01	4.72E+00	1.55E-01	3.42E-04	6.11E+01
160	4.68E-02	3.78E+01	4.22E+00	1.24E-01	3.20E-04	5.78E+01
170	6.10E-02	4.14E+01	3.80E+00	1.01E-01	3.18E-04	5.46E+01
180	7.73E-02	4.48E+01	3.43E+00	8.32E-02	3.34E-04	5.16E+01
190	9.59E-02	4.81E+01	3.10E+00	6.89E-02	3.66E-04	4.86E+01
200	1.17E-01	5.13E+01	2.80E+00	5.72E-02	1.15E-04	4.57E+01
210	1.41E-01	5.43E+01	2.52E+00	4.76E-02	4.80E-04	4.29E+01
220	1.68E-01	5.73E+01	2.27E+00	3.97E-02	5.63E-04	4.02E+01
230	1.99E-01	6.01E+01	2.05E+00	3.31E-02	6.61E-04	3.76E+01
240	2.34E-01	6.28E+01	1.84E+00	2.76E-02	7.86E-04	3.51E+01
250	2.72E-01	6.54E+01	1.65E+00	2.30E-02	9.31E-04	3.27E+01
260	3.16E-01	6.78E+01	1.48E+00	1.92E-02	1.10E-03	3.03E+01
270	3.65E-01	7.02E+01	1.32E+00	1.59E-02	1.30E-03	2.81E+01
280	4.20E-01	7.23E+01	1.18E+00	1.33E-02	1.53E-03	2.60E+01
290	4.81E-01	7.41E+01	1.05E+00	1.10E-02	1.79E-03	2.41E+01
300	5.49E-01	7.63E+01	9.37E-01	9.13E-03	2.10E-03	2.22E+01
310	6.24E-01	7.81E+01	8.32E-01	7.56E-03	2.44E-03	2.04E+01
320	7.08E-01	7.98E+01	7.39E-01	6.26E-03	2.85E-03	1.88E+01
330	8.02E-01	8.13E+01	6.55E-01	5.18E-03	3.30E-03	1.72E+01
340	9.05E-01	8.27E+01	5.80E-01	4.28E-03	3.83E-03	1.58E+01
350	1.02E+00	8.40E+01	5.13E-01	3.54E-03	4.44E-03	1.45E+01
360	1.15E+00	8.52E+01	4.54E-01	2.92E-03	5.0E-03	1.32E+01
370	1.29E+00	8.62E+01	4.01E-01	2.41E-03	5.87E-03	1.21E+01
380	1.44E+00	8.72E+01	3.53E-01	1.98E-03	6.75E-03	1.10E+01
390	1.61E+00	8.80E+01	3.12E-01	1.63E-03	7.74E-03	1.01E+01
400	1.80E+00	8.87E+01	2.74E-01	1.34E-03	8.86E-03	9.17E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	2.90E+00	8.94E+01	2.42E-01	1.11E-03	1.01E-02	8.35E+00
420	2.23E+00	8.99E+01	2.13E-01	9.10E-04	1.16E-02	7.60E+00
430	2.48E+00	9.04E+01	1.87E-01	7.48E-04	1.32E-02	6.91E+00
440	2.75E+00	9.08E+01	1.64E-01	6.15E-04	1.50E-02	6.28E+00
450	3.05E+00	9.11E+01	1.44E-01	5.05E-04	1.71E-02	5.70E+00
460	3.38E+00	9.13E+01	1.27E-01	4.15E-04	1.94E-02	5.17E+00
470	3.74E+00	9.14E+01	1.11E-01	3.41E-04	2.20E-02	4.69E+00
480	4.13E+00	9.15E+01	9.74E-02	2.80E-04	2.49E-02	4.26E+00
490	4.56E+00	9.15E+01	8.54E-02	2.30E-04	2.81E-02	3.85E+00
500	5.02E+00	9.14E+01	7.48E-02	1.89E-04	3.18E-02	3.49E+00
510	5.53E+00	9.12E+01	6.55E-02	1.55E-04	3.58E-02	3.15E+00
520	6.08E+00	9.10E+01	5.74E-02	1.27E-04	4.01E-02	2.85E+00
530	6.68E+00	9.06E+01	5.02E-02	1.01E-04	4.55E-02	2.58E+00
540	7.33E+00	9.02E+01	4.39E-02	8.53E-05	5.11E-02	2.33E+00
550	8.03E+00	8.98E+01	3.84E-02	6.99E-05	5.71E-02	2.10E+00
560	8.79E+00	8.92E+01	3.35E-02	5.72E-05	6.43E-02	1.90E+00
570	9.61E+00	8.86E+01	2.93E-02	4.69E-05	7.21E-02	1.71E+00
580	1.05E+01	8.79E+01	2.55E-02	3.81E-05	8.06E-02	1.54E+00
590	1.14E+01	8.71E+01	2.23E-02	3.14E-05	9.00E-02	1.39E+00
600	1.25E+01	8.62E+01	1.94E-02	2.57E-05	1.00E-01	1.25E+00
610	1.36E+01	8.52E+01	1.69E-02	2.10E-05	1.12E-01	1.12E+00
620	1.47E+01	8.41E+01	1.47E-02	1.71E-05	1.24E-01	1.01E+00
630	1.60E+01	8.30E+01	1.28E-02	1.40E-05	1.38E-01	9.07E-01
640	1.73E+01	8.17E+01	1.11E-02	1.14E-05	1.53E-01	8.11E-01
650	1.87E+01	8.04E+01	9.64E-03	9.29E-06	1.69E-01	7.30E-01
660	2.01E+01	7.90E+01	8.35E-03	7.57E-06	1.87E-01	6.49E-01
670	2.17E+01	7.75E+01	7.23E-03	6.15E-06	2.06E-01	5.86E-01
680	2.33E+01	7.59E+01	6.25E-03	5.00E-06	2.27E-01	5.17E-01
690	2.51E+01	7.42E+01	5.40E-03	4.06E-06	2.49E-01	4.61E-01
700	2.68E+01	7.25E+01	4.66E-03	3.29E-06	2.71E-01	4.10E-01
710	2.87E+01	7.06E+01	4.02E-03	2.67E-06	2.99E-01	3.63E-01
720	3.06E+01	6.87E+01	3.45E-03	2.16E-06	3.27E-01	3.23E-01
730	3.26E+01	6.68E+01	2.97E-03	1.74E-06	3.56E-01	2.86E-01
740	3.46E+01	6.47E+01	2.55E-03	1.41E-06	3.87E-01	2.53E-01
750	3.67E+01	6.26E+01	2.18E-03	1.13E-06	4.20E-01	2.24E-01
760	3.89E+01	6.05E+01	1.86E-03	9.12E-07	4.55E-01	1.97E-01
770	4.10E+01	5.83E+01	1.59E-03	7.33E-07	4.91E-01	1.74E-01
780	4.32E+01	5.61E+01	1.36E-03	5.88E-07	5.29E-01	1.53E-01
790	4.54E+01	5.39E+01	1.15E-03	4.71E-07	5.69E-01	1.34E-01
800	4.77E+01	5.16E+01	9.81E-04	3.77E-07	6.10E-01	1.17E-01

D- 82; LAT-40; LON-45; LT- 12; F- 200; FAV-200; A_p- 3; UTI--9

80	5.13E-01	1.37E-03	2.08E+01	8.93E-01	1.38E-05	7.83E+01
90	6.09E-01	3.55E-01	2.02E+01	8.49E-01	8.52E-05	7.85E+01
100	9.52E-01	4.02E+00	1.79E+01	7.10E-01	1.27E-04	7.74E+01

z, мм	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	N ₁ /S, %	N ₂ /S, %
110	2.29E-03	1.21E+01	1.31E+01	4.67E-01	2.54E-04	7.44E+01
120	5.00E-03	2.06E+01	8.83E+03	3.00E-01	3.47E-04	7.03E+01
130	1.10E-02	2.67E+01	6.66E+00	2.13E-01	3.35E-04	6.64E+01
140	2.09E-02	3.17E+01	5.55E+00	1.56E-01	3.07E-04	6.26E+01
150	3.18E-02	3.63E+01	4.81E+00	1.17E-01	2.93E-04	5.87E+01
160	4.45E-02	4.08E+01	4.23E+00	8.93E-02	2.96E-04	5.48E+01
170	5.97E-02	4.50E+01	3.74E+00	6.96E-02	3.15E-04	5.11E+01
180	7.75E-02	4.91E+01	3.30E+00	5.52E-02	3.50E-04	4.75E+01
190	9.88E-02	5.29E+01	2.92E+00	4.40E-02	4.05E-04	4.40E+01
200	1.23E-01	5.65E+01	2.58E+00	3.55E-02	4.76E-04	4.08E+01
210	1.49E-01	5.98E+01	2.29E+00	2.88E-02	5.64E-04	3.77E+01
220	1.79E-01	6.29E+01	2.03E+00	2.35E-02	6.72E-04	3.48E+01
230	2.13E-01	6.58E+01	1.80E+00	1.93E-02	8.00E-04	3.22E+01
240	2.50E-01	6.84E+01	1.60E+00	1.58E-02	9.51E-04	2.97E+01
250	2.91E-01	7.09E+01	1.42E+00	1.30E-02	1.13E-03	2.74E+01
260	3.36E-01	7.32E+01	1.26E+00	1.08E-02	1.33E-03	2.52E+01
270	3.86E-01	7.53E+01	1.12E+00	8.90E-03	1.56E-03	2.32E+01
280	4.41E-01	7.72E+01	9.97E-01	7.37E-03	1.82E-03	2.14E+01
290	5.01E-01	7.90E+01	8.85E-01	6.10E-03	2.12E-03	1.97E+01
300	5.66E-01	8.06E+01	7.86E-01	5.06E-03	2.46E-03	1.81E+01
310	6.35E-01	8.22E+01	6.94E-01	4.18E-03	2.82E-03	1.65E+01
320	7.15E-01	8.35E+01	6.16E-01	3.47E-03	3.26E-03	1.52E+01
330	8.03E-01	8.47E+01	5.47E-01	2.87E-03	3.75E-03	1.39E+01
340	9.00E-01	8.59E+01	4.85E-01	2.38E-03	4.31E-03	1.27E+01
350	1.01E+00	8.69E+01	4.29E-01	1.97E-03	4.94E-03	1.17E+01
360	1.13E+00	8.78E+01	3.80E-01	1.63E-03	5.66E-03	1.07E+01
370	1.25E+00	8.86E+01	3.35E-01	1.35E-03	6.47E-03	9.76E+00
380	1.40E+00	8.94E+01	2.97E-01	1.12E-03	7.38E-03	8.91E+00
390	1.55E+00	9.00E+01	2.62E-01	9.26E-04	8.41E-03	8.13E+00
400	1.71E+00	9.06E+01	2.33E-01	7.73E-04	9.48E-03	7.45E+00
410	1.90E+00	9.11E+01	2.06E-01	6.39E-04	1.08E-02	6.80E+00
420	2.10E+00	9.15E+01	1.81E-01	5.28E-04	1.22E-02	6.19E+00
430	2.32E+00	9.19E+01	1.60E-01	4.37E-04	1.39E-02	5.64E+00
440	2.57E+00	9.21E+01	1.41E-01	3.61E-04	1.57E-02	5.14E+00
450	2.84E+00	9.23E+01	1.24E-01	2.98E-04	1.77E-02	4.68E+00
460	3.13E+00	9.25E+01	1.09E-01	2.46E-04	2.00E-02	4.25E+00
470	3.44E+00	9.26E+01	9.64E-02	2.04E-04	2.26E-02	3.87E+00
480	3.79E+00	9.26E+01	8.49E-02	1.68E-04	2.55E-02	3.52E+00
490	4.17E+00	9.25E+01	7.47E-02	1.39E-04	2.87E-02	3.19E+00
500	4.59E+00	9.24E+01	6.58E-02	1.15E-04	3.23E-02	2.90E+00
510	5.02E+00	9.22E+01	5.78E-02	9.48E-05	3.63E-02	2.63E+00
520	5.51E+00	9.20E+01	5.09E-02	7.83E-05	4.07E-02	2.39E+00
530	6.03E+00	9.17E+01	4.47E-02	6.46E-05	4.57E-02	2.17E+00
540	6.60E+00	9.13E+01	3.93E-02	5.33E-05	5.12E-02	1.97E+00
550	7.21E+00	9.09E+01	3.45E-02	4.40E-05	5.72E-02	1.78E+00
560	7.88E+00	9.04E+01	3.03E-02	3.63E-05	6.40E-02	1.61E+00
570	8.59E+00	8.99E+01	2.66E-02	3.00E-05	7.14E-02	1.46E+00
580	9.36E+00	8.92E+01	2.33E-02	2.47E-05	7.96E-02	1.32E+00
590	1.02E+01	8.85E+01	2.05E-02	2.04E-05	8.87E-02	1.20E+00
600	1.11E+01	8.77E+01	1.79E-02	1.68E-05	9.87E-02	1.08E+00

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	1.20E+01	8.69E+01	1.57E-02	1.38E-05	1.10E-01	9.77E-01
620	1.30E+01	8.59E+01	1.38E-02	1.14E-05	1.22E-01	8.81E-01
630	1.41E+01	8.49E+01	1.20E-02	9.38E-06	1.35E-01	7.95E-01
640	1.53E+01	8.39E+01	1.05E-02	7.71E-06	1.49E-01	7.16E-01
650	1.65E+01	8.27E+01	9.19E-03	6.34E-06	1.65E-01	6.45E-01
660	1.78E+01	8.14E+01	8.02E-03	5.21E-06	1.82E-01	5.80E-01
670	1.91E+01	8.01E+01	6.99E-03	4.28E-06	2.00E-01	5.21E-01
680	2.06E+01	7.87E+01	6.09E-03	3.51E-06	2.20E-01	4.68E-01
690	2.21E+01	7.72E+01	5.30E-03	2.88E-06	2.42E-01	4.20E-01
700	2.37E+01	7.57E+01	4.61E-03	2.35E-06	2.65E-01	3.76E-01
710	2.53E+01	7.40E+01	4.00E-03	1.93E-06	2.90E-01	3.36E-01
720	2.71E+01	7.23E+01	3.47E-03	1.57E-06	3.16E-01	3.01E-01
730	2.88E+01	7.05E+01	3.01E-03	1.29E-06	3.45E-01	2.68E-01
740	3.07E+01	6.87E+01	2.60E-03	1.05E-06	3.75E-01	2.39E-01
750	3.26E+01	6.68E+01	2.25E-03	8.54E-07	4.07E-01	2.13E-01
760	3.46E+01	6.48E+01	1.94E-03	6.95E-07	4.41E-01	1.89E-01
770	3.66E+01	6.28E+01	1.67E-03	5.65E-07	4.77E-01	1.68E-01
780	3.86E+01	6.07E+01	1.44E-03	4.58E-07	5.15E-01	1.49E-01
790	4.07E+01	5.86E+01	1.24E-03	3.72E-07	5.55E-01	1.31E-01
800	4.28E+01	5.65E+01	1.06E-03	3.01E-07	5.96E-01	1.16E-01

D 82, LAT 80; LON—45; LT 12, F—200; FAV 200; A, 3; UT1—9

80	5.44E-04	1.21E-03	2.08E+01	9.17E-01	1.10E-05	7.83E+01
90	6.03E-04	3.06E-01	2.04E+01	8.88E-01	8.69E-05	7.84E+01
100	9.52E-04	3.43E-00	1.84E+01	7.61E-01	1.36E-04	7.75E+01
110	2.39E-03	9.99E+00	1.43E+01	5.35E-01	2.84E-04	7.52E+01
120	6.02E-03	1.74E+01	1.03E+01	3.55E-01	1.64E-04	7.19E+01
130	1.19E-02	2.32E+01	8.04E+00	2.55E-01	5.31E-04	6.85E+01
140	1.94E-02	2.76E+01	6.86E+00	1.95E-01	5.15E-04	6.53E+01
150	2.81E-02	3.14E+01	6.10E+00	1.51E-01	1.83E-04	6.24E+01
160	3.84E-02	3.48E+01	5.52E+00	1.21E-01	1.69E-04	5.95E+01
170	5.03E-02	3.81E+01	5.02E+00	1.01E-01	1.78E-04	5.68E+01
180	6.11E-02	4.12E+01	4.57E+00	8.56E-02	5.12E-04	5.41E+01
190	8.00E-02	4.42E+01	4.17E+00	7.17E-02	5.71E-04	5.15E+01
200	9.81E-02	4.71E+01	3.81E+00	6.03E-02	6.54E-04	4.89E+01
210	1.19E-01	5.00E+01	3.47E+00	5.09E-02	7.64E-04	4.63E+01
220	1.42E-01	5.28E+01	3.16E+00	4.30E-02	9.00E-04	4.38E+01
230	1.69E-01	5.55E+01	2.88E+00	3.63E-02	1.07E-03	4.11E+01
240	1.99E-01	5.82E+01	2.62E+00	3.07E-02	1.27E-03	3.90E+01
250	2.32E-01	6.07E+01	2.37E+00	2.59E-02	1.50E-03	3.66E+01
260	2.70E-01	6.32E+01	2.15E+00	2.19E-02	1.78E-03	3.44E+01
270	3.13E-01	6.55E+01	1.94E+00	1.85E-02	2.10E-03	3.22E+01
280	3.60E-01	6.78E+01	1.75E+00	1.56E-02	2.48E-03	3.01E+01
290	4.13E-01	7.00E+01	1.58E+00	1.31E-02	2.91E-03	2.80E+01
300	4.71E-01	7.20E+01	1.42E+00	1.10E-02	3.40E-03	2.61E+01

Продолжение табл. 6

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
310	5.38E-01	7.39E+01	1.28E+00	9.27E-03	3.98E-03	2.43E+01
320	6.10E-01	7.57E+01	1.15E+00	7.77E-03	4.62E-03	2.25E+01
330	6.90E-01	7.74E+01	1.03E+00	6.51E-03	5.35E-03	2.08E+01
340	7.79E-01	7.90E+01	9.18E-01	5.44E-03	6.19E-03	1.93E+01
350	8.77E-01	8.05E+01	8.20E-01	4.55E-03	7.14E-03	1.78E+01
360	9.84E-01	8.19E+01	7.31E-01	3.80E-03	8.22E-03	1.64E+01
370	1.10E+00	8.32E+01	6.52E-01	3.17E-03	9.44E-03	1.51E+01
380	1.23E+00	8.43E+01	5.80E-01	2.65E-03	1.08E-02	1.39E+01
390	1.38E+00	8.54E+01	5.16E-01	2.21E-03	1.24E-02	1.27E+01
400	1.53E+00	8.63E+01	4.58E-01	1.84E-03	1.41E-02	1.17E+01
410	1.71E+00	8.72E+01	4.07E-01	1.53E-03	1.61E-02	1.07E+01
420	1.90E+00	8.79E+01	3.61E-01	1.27E-03	1.83E-02	9.82E+00
430	2.10E+00	8.86E+01	3.20E-01	1.06E-03	2.08E-02	8.99E+00
440	2.33E+00	8.91E+01	2.83E-01	8.79E-04	2.36E-02	8.22E+00
450	2.58E+00	8.96E+01	2.51E-01	7.31E-04	2.67E-02	7.51E+00
460	2.85E+00	9.00E+01	2.22E-01	6.07E-04	3.02E-02	6.86E+00
470	3.14E+00	9.04E+01	1.96E-01	5.04E-04	3.42E-02	6.26E+00
480	3.46E+00	9.06E+01	1.74E-01	4.18E-04	3.86E-02	5.72E+00
490	3.81E+00	9.08E+01	1.53E-01	3.47E-04	4.35E-02	5.21E+00
500	4.19E+00	9.09E+01	1.36E-01	2.88E-04	4.89E-02	4.75E+00
510	4.60E+00	9.09E+01	1.20E-01	2.39E-04	5.50E-02	4.33E+00
520	5.05E+00	9.08E+01	1.06E-01	1.98E-04	6.18E-02	3.94E+00
530	5.53E+00	9.07E+01	9.31E-02	1.64E-04	6.93E-02	3.58E+00
540	6.06E+00	9.05E+01	8.21E-02	1.36E-04	7.77E-02	3.26E+00
550	6.63E+00	9.03E+01	7.24E-02	1.13E-04	8.70E-02	2.96E+00
560	7.24E+00	8.99E+01	6.37E-02	9.34E-05	9.72E-02	2.69E+00
570	7.90E+00	8.95E+01	5.61E-02	7.73E-05	1.09E-01	2.44E+00
580	8.61E+00	8.90E+01	4.94E-02	6.40E-05	1.21E-01	2.22E+00
590	9.38E+00	8.84E+01	4.34E-02	5.30E-05	1.35E-01	2.01E+00
600	1.02E+01	8.78E+01	3.82E-02	4.38E-05	1.50E-01	1.82E+00
610	1.11E+01	8.71E+01	3.35E-02	3.62E-05	1.67E-01	1.65E+00
620	1.20E+01	8.63E+01	2.95E-02	2.99E-05	1.85E-01	1.49E+00
630	1.30E+01	8.54E+01	2.58E-02	2.47E-05	2.05E-01	1.35E+00
640	1.41E+01	8.44E+01	2.27E-02	2.04E-05	2.27E-01	1.22E+00
650	1.52E+01	8.34E+01	1.99E-02	1.69E-05	2.51E-01	1.10E+00
660	1.64E+01	8.23E+01	1.74E-02	1.39E-05	2.77E-01	9.93E-01
670	1.77E+01	8.11E+01	1.52E-02	1.15E-05	3.05E-01	8.95E-01
680	1.91E+01	7.98E+01	1.33E-02	9.43E-06	3.36E-01	8.05E-01
690	2.05E+01	7.84E+01	1.16E-02	7.76E-06	3.69E-01	7.24E-01
700	2.19E+01	7.70E+01	1.01E-02	6.38E-06	4.04E-01	6.51E-01
710	2.35E+01	7.55E+01	8.81E-03	5.24E-06	4.43E-01	5.84E-01
720	2.51E+01	7.39E+01	7.67E-03	4.30E-06	4.84E-01	5.23E-01
730	2.68E+01	7.22E+01	6.67E-03	3.53E-06	5.28E-01	4.68E-01
740	2.86E+01	7.04E+01	5.79E-03	2.89E-06	5.74E-01	4.19E-01
750	3.04E+01	6.86E+01	5.02E-03	2.36E-06	6.24E-01	3.74E-01
760	3.22E+01	6.68E+01	4.35E-03	1.93E-06	6.77E-01	3.33E-01
770	3.41E+01	6.48E+01	3.76E-03	1.58E-06	7.33E-01	2.97E-01
780	3.61E+01	6.29E+01	3.25E-03	1.28E-06	7.92E-01	2.64E-01
790	3.81E+01	6.08E+01	2.80E-03	1.05E-06	8.54E-01	2.34E-01
800	4.01E+01	5.88E+01	2.41E-03	8.50E-07	9.19E-01	2.08E-01

**Широтные вариации состава при низкой солнечной активности
для летнего солнцестояния в северном и зимнего в южном полушариях**

$x, \text{ км}$	$\text{He}/S, \%$	$\text{C}/S, \%$	$\text{O}_2/S, \%$	$\text{N}_2/S, \%$	$\text{H}/S, \%$	$\text{N}_2/S, \%$
<i>D - 172; LAT - 0; LON - 45; LT - 12; F - 70; FΔV - 70; A_p - 3; UT - 9</i>						
80	5.52E-04	1.11E-03	2.08E-01	9.02E-01	1.81E-05	7.83E-01
90	6.14E-04	2.79E-01	2.03E-01	8.65E-01	1.25E-04	7.86E-01
100	9.59E-04	3.08E-00	1.81E-01	7.40E-01	2.10E-04	7.81E-01
110	2.53E-03	9.38E-00	1.35E-01	4.92E-01	5.50E-04	7.66E-01
120	7.07E-03	1.70E-01	9.10E-00	3.93E-01	1.28E-03	7.36E-01
130	1.19E-02	2.31E-01	6.78E-00	2.05E-01	1.81E-03	6.99E-01
140	1.80E-02	2.81E-01	5.58E-00	1.46E-01	2.19E-03	6.61E-01
150	2.71E-02	3.28E-01	4.80E-00	1.07E-01	2.56E-03	6.23E-01
160	3.95E-02	3.72E-01	4.18E-00	7.96E-02	3.02E-03	5.85E-01
170	5.57E-02	4.16E-01	3.65E-00	6.02E-02	3.67E-03	5.46E-01
180	7.65E-02	4.60E-01	3.18E-00	4.59E-02	4.57E-03	5.07E-01
190	1.03E-01	5.04E-01	2.76E-00	3.50E-02	5.83E-03	4.67E-01
200	1.36E-01	5.46E-01	2.38E-00	2.67E-02	7.55E-03	4.28E-01
210	1.78E-01	5.88E-01	2.04E-00	2.03E-02	9.81E-03	3.90E-01
220	2.30E-01	6.28E-01	1.74E-00	1.53E-02	1.29E-02	3.52E-01
230	2.93E-01	6.66E-01	1.47E-00	7.16E-03	1.68E-02	3.16E-01
240	3.71E-01	7.02E-01	1.24E-00	8.66E-03	2.19E-02	2.82E-01
250	4.65E-01	7.35E-01	1.04E-00	6.16E-03	2.81E-02	2.50E-01
260	5.78E-01	7.65E-01	8.63E-01	4.79E-03	3.67E-02	2.20E-01
270	7.14E-01	7.92E-01	7.14E-01	3.51E-03	4.71E-02	1.93E-01
280	8.76E-01	8.16E-01	5.89E-01	2.60E-03	6.02E-02	1.68E-01
290	1.07E-00	8.38E-01	4.83E-01	1.91E-03	7.65E-02	1.46E-01
300	1.30E-00	8.56E-01	3.95E-01	1.39E-03	9.67E-02	1.26E-01
310	1.58E-00	8.70E-01	3.25E-01	1.02E-03	1.23E-01	1.10E-01
320	1.90E-00	8.83E-01	2.63E-01	7.43E-04	1.54E-01	9.43E-02
330	2.27E-00	8.93E-01	2.13E-01	5.38E-04	1.92E-01	8.07E-02
340	2.70E-00	9.00E-01	1.72E-01	3.88E-04	2.38E-01	6.89E-02
350	3.21E-00	9.05E-01	1.39E-01	2.80E-04	2.95E-01	5.86E-02
360	3.80E-00	9.07E-01	1.11E-01	2.01E-04	3.63E-01	4.98E-02
370	4.48E-00	9.08E-01	8.94E-02	1.45E-04	4.47E-01	4.22E-02
380	5.27E-00	9.05E-01	7.16E-02	1.04E-04	5.48E-01	3.57E-02
390	6.18E-00	9.01E-01	5.72E-02	7.14E-05	6.69E-01	3.01E-02
400	7.22E-00	8.94E-01	4.56E-02	5.32E-05	8.15E-01	2.54E-02
410	8.41E-00	8.84E-01	3.63E-02	3.79E-05	9.89E-01	2.13E-02
420	9.77E-00	8.72E-01	2.88E-02	2.70E-05	1.20E-00	1.79E-02
430	1.13E+01	8.57E-01	2.28E-02	1.92E-05	1.44E+00	1.49E-02
440	1.30E+01	8.40E-01	1.80E-02	1.36E-05	1.73E+00	1.24E-02
450	1.49E+01	8.20E-01	1.42E-02	9.61E-06	2.06E+00	1.03E-02
460	1.70E+01	7.96E-01	1.11E-02	6.77E-06	2.45E+00	8.55E-03
470	1.93E+01	7.70E-01	8.67E-03	4.75E-06	2.90E+00	7.04E-03
480	2.19E+01	7.42E-01	6.74E-03	3.32E-06	3.41E+00	5.78E-03
490	2.45E+01	7.10E-01	5.22E-03	2.21E-06	3.98E+00	4.72E-03
500	2.74E+01	6.76E-01	4.02E-03	1.60E-06	4.63E+00	3.83E-03

Продолжение табл. 7

z , км	He/S, %	O/S, %	O_2 /S, %	N_1 /S, %	H/S, %	N_2 /S, %
510	3.04E+01	6.40E+01	3.08E-03	1.10E-06	5.34E+00	3.09E-01
520	3.35E+01	6.02E+01	2.34E-03	7.55E-07	6.12E+00	2.48E-01
530	3.66E+01	5.62E+01	1.77E-03	5.15E-07	6.96E+00	1.98E-01
540	3.98E+01	5.22E+01	1.34E-03	3.49E-07	7.87E+00	1.57E-01
550	4.29E+01	4.81E+01	9.99E-04	2.35E-07	8.83E+00	1.24E-01
560	4.60E+01	4.41E+01	7.43E-04	1.57E-07	9.84E+00	9.71E-02
570	4.89E+01	4.01E+01	5.49E-04	1.05E-07	1.09E+01	7.56E-02
580	5.17E+01	3.63E+01	4.04E-04	6.96E-08	1.20E+01	5.85E-02
590	5.43E+01	3.26E+01	2.95E-04	4.59E-08	1.30E+01	4.51E-02
600	5.66E+01	2.92E+01	2.15E-04	3.01E-08	1.41E+01	3.45E-02
610	5.88E+01	2.60E+01	1.56E-04	1.97E-08	1.53E+01	2.63E-02
620	6.06E+01	2.30E+01	1.12E-04	1.28E-08	1.64E+01	2.00E-02
630	6.23E+01	2.02E+01	8.06E-05	8.30E-09	1.75E+01	1.51E-02
640	6.37E+01	1.78E+01	5.77E-05	5.37E-09	1.85E+01	1.14E-02
650	6.48E+01	1.55E+01	4.12E-05	3.46E-09	1.96E+01	8.54E-03
660	6.58E+01	1.35E+01	2.93E-05	2.23E-09	2.07E+01	6.39E-03
670	6.65E+01	1.18E+01	2.08E-05	1.43E-09	2.17E+01	4.77E-03
680	6.71E+01	1.02E+01	1.47E-05	9.15E-10	2.27E+01	3.56E-03
690	6.74E+01	8.82E+00	1.04E-05	5.86E-10	2.37E+01	2.65E-03
700	6.77E+01	7.61E+00	7.37E-06	3.74E-10	2.47E+01	1.97E-03
710	6.77E+01	6.56E+00	5.20E-06	2.39E-10	2.57E+01	1.46E-03
720	6.77E+01	5.65E+00	3.67E-06	1.53E-10	2.67E+01	1.08E-03
730	6.75E+01	4.85E+00	2.59E-06	9.74E-11	2.76E+01	8.01E-04
740	6.73E+01	4.17E+00	1.82E-06	6.22E-11	2.85E+01	5.93E-04
750	6.69E+01	3.58E+00	1.28E-06	3.97E-11	2.95E+01	4.39E-04
760	6.65E+01	3.07E+00	9.03E-07	2.53E-11	3.04E+01	3.24E-04
770	6.61E+01	2.63E+00	6.36E-07	1.62E-11	3.13E+01	2.40E-04
780	6.55E+01	2.25E+00	4.48E-07	1.03E-11	3.22E+01	1.77E-04
790	6.49E+01	1.93E+00	3.15E-07	6.59E-12	3.31E+01	1.31E-04
800	6.43E+01	1.65E+00	2.22E-07	4.21E-12	3.40E+01	9.70E-05

D—172; LAT—40; LON—45; LT—12; F—70; FAV—70; A₂—3; UTI—9

80	5.40E-04	1.09E-03	2.08E+01	8.99E-01	1.73E-05	7.83E+01
90	6.05E-04	2.75E-01	2.02E+01	8.60E-01	1.21E-04	7.87E+01
100	9.61E-04	3.05E+00	1.78E+01	7.29E-01	2.13E-04	7.81E+01
110	2.39E-03	9.04E+00	1.30E+01	5.00E-01	5.27E-04	7.74E+01
120	5.52E-03	1.62E+01	8.49E+00	3.13E-01	1.12E-03	7.50E+01
130	6.77E-03	2.21E+01	6.14E+00	2.11E-01	1.61E-03	7.15E+01
140	8.19E-03	2.69E+01	5.02E+00	1.49E-01	1.95E-03	6.79E+01
150	1.18E-02	3.12E+01	4.33E+00	1.10E-01	2.25E-03	6.43E+01
160	1.70E-02	3.54E+01	3.80E+00	8.27E-02	2.62E-03	6.07E+01
170	2.39E-02	3.95E+01	3.35E+00	6.32E-02	3.14E-03	5.71E+01
180	3.27E-02	4.36E+01	2.94E+00	4.87E-02	3.88E-03	5.33E+01
190	4.38E-02	4.78E+01	2.58E+00	3.76E-02	4.91E-03	4.96E+01
200	5.78E-02	5.19E+01	2.24E+00	2.91E-02	6.32E-03	4.58E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	7.53E-02	5.59E+01	1.95E+00	2.24E-02	8.20E-03	4.20E-01
220	9.69E-02	5.99E+01	1.68E+00	1.72E-02	1.07E-02	3.83E+01
230	1.24E-01	6.37E+01	1.43E+00	1.31E-02	1.39E-02	3.47E-01
240	1.56E-01	6.73E+01	1.22E+00	9.99E-03	1.81E-02	3.12E-01
250	1.95E-01	7.08E+01	1.03E+00	7.56E-03	2.34E-02	2.80E+01
260	2.43E-01	7.40E+01	8.70E-01	5.70E-03	3.01E-02	2.49E-01
270	2.99E-01	7.69E+01	7.28E-01	4.27E-03	3.86E-02	2.20E-01
280	3.67E-01	7.96E+01	6.07E-01	3.19E-03	4.92E-02	1.94E+01
290	4.47E-01	8.20E+01	5.04E-01	2.37E-03	6.23E-02	1.70E-01
300	5.42E-01	8.41E+01	4.17E-01	1.76E-03	7.87E-02	1.48E+01
310	6.61E-01	8.58E+01	3.47E-01	1.31E-03	9.98E-02	1.31E+01
320	7.93E-01	8.75E+01	2.84E-01	9.65E-04	1.25E-01	1.13E+01
330	9.48E-01	8.89E+01	2.33E-01	7.09E-04	1.55E-01	9.76E-00
340	1.13E+00	9.01E+01	1.90E-01	5.20E-04	1.92E-01	8.41E+00
350	1.34E+00	9.10E+01	1.55E-01	3.80E-04	2.38E-01	7.24E-00
360	1.59E+00	9.18E+01	1.26E-01	2.78E-04	2.93E-01	6.21E-00
370	1.88E+00	9.23E+01	1.02E-01	2.03E-04	3.61E-01	5.32E+00
380	2.21E+00	9.27E+01	8.30E-02	1.48E-04	4.42E-01	4.55E+00
390	2.60E+00	9.29E+01	6.73E-02	1.08E-04	5.41E-01	3.89E+00
400	3.05E+00	9.29E+01	5.44E-02	7.84E-05	6.60E-01	3.32E-00
410	3.56E+00	9.28E+01	4.40E-02	5.70E-05	8.03E-01	2.83E+00
420	4.16E+00	9.24E+01	3.55E-02	4.14E-05	9.75E-01	2.41E+00
430	4.84E+00	9.19E+01	2.86E-02	3.00E-05	1.18E+00	2.04E+00
440	5.62E+00	9.12E+01	2.30E-02	2.18E-05	1.43E+00	1.73E+00
450	6.51E+00	9.03E+01	1.85E-02	1.58E-05	1.72E+00	1.47E+00
460	7.51E+00	8.92E+01	1.48E-02	1.14E-05	2.06E+00	1.24E+00
470	8.65E+00	8.78E+01	1.19E-02	8.22E-06	2.47E+00	1.04E+00
480	9.92E+00	8.63E+01	9.48E-03	5.91E-06	2.94E+00	8.78E-01
490	1.13E+01	8.44E+01	7.55E-03	4.25E-06	3.49E+00	7.36E-01
500	1.29E+01	8.23E+01	5.99E-03	3.04E-06	4.13E+00	6.16E-01
510	1.46E+01	8.00E+01	4.74E-03	2.17E-06	4.87E+00	5.13E-01
520	1.65E+01	7.74E+01	3.74E-03	1.55E-06	5.70E+00	4.25E-01
530	1.85E+01	7.45E+01	2.93E-03	1.10E-06	6.65E+00	3.51E-01
540	2.06E+01	7.14E+01	2.29E-03	7.74E-07	7.71E+00	2.89E-01
550	2.29E+01	6.80E+01	1.78E-03	5.41E-07	8.88E+00	2.36E-01
560	2.52E+01	6.44E+01	1.38E-03	3.80E-07	1.02E+01	1.92E-01
570	2.76E+01	6.06E+01	1.06E-03	2.65E-07	1.16E+01	1.56E-01
580	3.01E+01	5.67E+01	8.13E-04	1.83E-07	1.31E+01	1.25E-01
590	3.25E+01	5.27E+01	6.18E-04	1.26E-07	1.47E+01	1.00E-01
600	3.49E+01	4.87E+01	4.68E-04	8.62E-08	1.63E+01	7.97E-02
610	3.72E+01	4.47E+01	3.52E-04	5.87E-08	1.81E+01	6.30E-02
620	3.93E+01	4.08E+01	2.63E-04	3.97E-08	1.98E+01	4.95E-02
630	4.14E+01	3.69E+01	1.95E-04	2.67E-08	2.17E+01	3.86E-02
640	4.32E+01	3.33E+01	1.44E-04	1.79E-08	2.35E+01	3.00E-02
650	4.49E+01	2.98E+01	1.06E-04	1.19E-08	2.53E+01	2.32E-02
660	4.63E+01	2.66E+01	7.77E-05	7.91E-09	2.71E+01	1.78E-02
670	4.76E+01	2.35E+01	5.66E-05	5.23E-09	2.89E+01	1.36E-02
680	4.86E+01	2.08E+01	4.11E-05	3.44E-09	3.06E+01	1.04E-02
690	4.94E+01	1.83E+01	2.97E-05	2.26E-09	3.23E+01	7.90E-03
700	5.01E+01	1.60E+01	2.14E-05	1.48E-09	3.39E+01	5.98E-03

Продолжение табл. 7

Z_e , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ /S, %	N ₂ /S, %
710	5.05E+01	1.40E+01	1.54E-05	9.64E-10	3.55E+01	4.51E-03
720	5.08E+01	1.21E+01	1.11E-05	6.28E-10	3.70E+01	3.40E-03
730	5.10E+01	1.05E+01	7.91E-06	4.08E-10	3.85E+01	2.55E-03
740	5.10E+01	9.12E+00	5.65E-06	2.65E-10	3.99E+01	1.91E-03
750	5.09E+01	7.88E+00	4.03E-06	1.72E-10	4.13E+01	1.43E-03
760	5.06E+01	6.80E+00	2.87E-06	1.11E-10	4.26E+01	1.07E-03
770	5.03E+01	5.86E+00	2.05E-06	7.20E-11	4.38E+01	7.98E-04
780	4.99E+01	5.04E+00	1.46E-06	4.66E-11	4.51E+01	5.96E-04
790	4.94E+01	4.33E+00	1.03E-06	3.01E-11	4.62E+01	4.44E-04
800	4.89E+01	3.72E+00	7.35E-07	1.95E-11	4.74E+01	3.31E-04

D—172; LAT—80; LON—45; LT—12; F—70; FAV—70; A₂—3; UT1—9

80	5.35E-04	9.78E-04	2.08E+01	9.44E-01	1.52E-05	7.83E+01
90	5.92E-04	2.42E-01	2.03E+01	9.31E-01	9.96E-05	7.86E+01
100	9.57E-04	2.67E+00	1.81E+01	8.23E-01	1.78E-04	7.84E+01
110	2.27E-03	7.67E+00	1.38E+01	6.18E-01	3.96E-04	7.79E+01
120	4.30E-03	1.34E+01	9.61E+00	4.34E-01	7.28E-04	7.65E+01
130	3.40E-03	1.81E+01	7.30E+00	3.24E-01	9.70E-04	7.42E+01
140	3.09E-03	2.19E+01	6.15E+00	2.52E-01	1.09E-03	7.17E+01
150	4.24E-03	2.53E+01	5.43E+00	2.00E-01	1.18E-03	6.91E+01
160	6.11E-03	2.86E+01	4.87E+00	1.60E-01	1.30E-03	6.64E+01
170	8.60E-03	3.18E+01	4.39E+00	1.29E-01	1.51E-03	6.36E+01
180	1.18E-02	3.52E+01	3.95E+00	1.04E-01	1.82E-03	6.08E+01
190	1.59E-02	3.86E+01	3.55E+00	8.34E-02	2.26E-03	5.78E+01
200	2.12E-02	4.21E+01	3.18E+00	6.69E-02	2.88E-03	5.46E+01
210	2.78E-02	4.57E+01	2.83E+00	5.35E-02	3.72E-03	5.14E+01
220	3.60E-02	4.93E+01	2.51E+00	4.26E-02	4.84E-03	4.81E+01
230	4.63E-02	5.30E+01	2.21E+00	3.38E-02	6.32E-03	4.47E+01
240	5.89E-02	5.66E+01	1.94E+00	2.66E-02	8.23E-03	4.14E+01
250	7.42E-02	6.02E+01	1.69E+00	2.09E-02	1.07E-02	3.80E+01
260	9.29E-02	6.37E+01	1.47E+00	1.63E-02	1.38E-02	3.47E+01
270	1.15E-01	6.71E+01	1.27E+00	1.27E-02	1.77E-02	3.15E+01
280	1.42E-01	7.03E+01	1.09E+00	9.82E-03	2.27E-02	2.85E+01
290	1.74E-01	7.33E+01	9.26E-01	7.56E-03	2.88E-02	2.56E+01
300	2.12E-01	7.61E+01	7.87E-01	5.79E-03	3.64E-02	2.29E+01
310	2.61E-01	7.83E+01	6.77E-01	4.50E-03	4.65E-02	2.07E+01
320	3.14E-01	8.07E+01	5.69E-01	3.41E-03	5.80E-02	1.83E+01
330	3.75E-01	8.29E+01	4.77E-01	2.58E-03	7.21E-02	1.62E+01
340	4.47E-01	8.49E+01	3.98E-01	1.95E-03	8.92E-02	1.42E+01
350	5.31E-01	8.66E+01	3.32E-01	1.47E-03	1.10E-01	1.25E+01
360	6.28E-01	8.81E+01	2.76E-01	1.11E-03	1.35E-01	1.09E+01
370	7.41E-01	8.94E+01	2.29E-01	8.30E-04	1.66E-01	9.51E+00
380	8.72E-01	9.05E+01	1.90E-01	6.22E-04	2.02E-01	8.29E+00
390	1.02E+00	9.14E+01	1.57E-01	4.66E-04	2.46E-01	7.21E+00
400	1.20E+00	9.21E+01	1.30E-01	3.49E-04	2.99E-01	6.26E+00

г, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.40E+00	9.27E+01	1.07E-01	2.60E-04	3.63E-01	5.43E+00
420	1.63E+00	9.31E+01	8.83E-02	1.94E-04	4.39E-01	4.70E+00
430	1.90E+00	9.34E+01	7.27E-02	1.45E-04	5.30E-01	4.07E+00
440	2.20E+00	9.36E+01	5.99E-02	1.08E-04	6.38E-01	3.51E+00
450	2.55E+00	9.36E+01	4.92E-02	8.07E-05	7.67E-01	3.03E+00
460	2.95E+00	9.35E+01	4.04E-02	6.01E-05	9.20E-01	2.62E+00
470	3.40E+00	9.32E+01	3.32E-02	4.47E-05	1.10E+00	2.25E+00
480	3.92E+00	9.28E+01	2.72E-02	3.33E-05	1.32E+00	1.94E+00
490	4.51E+00	9.22E+01	2.23E-02	2.47E-05	1.57E+00	1.67E+00
500	5.17E+00	9.15E+01	1.82E-02	1.84E-05	1.86E+00	1.43E+00
510	5.91E+00	9.06E+01	1.49E-02	1.36E-05	2.21E+00	1.23E+00
520	6.75E+00	8.96E+01	1.21E-02	1.01E-05	2.62E+00	1.05E+00
530	7.68E+00	8.83E+01	9.87E-03	7.46E-06	3.09E+00	8.96E-01
540	8.72E+00	8.69E+01	8.02E-03	5.51E-06	3.63E+00	7.64E-01
550	9.87E+00	8.52E+01	6.50E-03	4.06E-06	4.26E+00	6.50E-01
560	1.11E+01	8.33E+01	5.26E-03	2.99E-06	4.98E+00	5.51E-01
570	1.25E+01	8.12E+01	4.24E-03	2.19E-06	5.80E+00	4.66E-01
580	1.40E+01	7.89E+01	3.41E-03	1.60E-06	6.72E+00	3.93E-01
590	1.56E+01	7.63E+01	2.73E-03	1.17E-06	7.76E+00	3.30E-01
600	1.73E+01	7.35E+01	2.18E-03	8.50E-07	8.91E+00	2.76E-01
610	1.91E+01	7.05E+01	1.74E-03	6.16E-07	1.02E+01	2.30E-01
620	2.09E+01	6.73E+01	1.37E-03	4.44E-07	1.16E+01	1.91E-01
630	2.29E+01	6.39E+01	1.08E-03	3.19E-07	1.31E+01	1.58E-01
640	2.48E+01	6.03E+01	8.50E-04	2.28E-07	1.47E+01	1.30E-01
650	2.68E+01	5.67E+01	6.63E-04	1.62E-07	1.64E+01	1.06E-01
660	2.87E+01	5.29E+01	5.15E-04	1.15E-07	1.83E+01	8.61E-02
670	3.06E+01	4.92E+01	3.98E-04	8.10E-08	2.01E+01	6.97E-02
680	3.25E+01	4.54E+01	3.06E-04	5.68E-08	2.21E+01	5.61E-02
690	3.42E+01	4.17E+01	2.34E-04	3.96E-08	2.41E+01	4.49E-02
700	3.58E+01	3.81E+01	1.78E-04	2.75E-08	2.61E+01	3.57E-02
710	3.73E+01	3.46E+01	1.35E-04	1.90E-08	2.81E+01	2.83E-02
720	3.86E+01	3.13E+01	1.02E-04	1.31E-08	3.01E+01	2.23E-02
730	3.98E+01	2.81E+01	7.63E-05	8.99E-09	3.2E+01	1.76E-02
740	4.08E+01	2.52E+01	5.70E-05	6.14E-09	3.40E+01	1.37E-02
750	4.16E+01	2.25E+01	4.25E-05	4.18E-09	3.59E+01	1.07E-02
760	4.23E+01	1.99E+01	3.16E-05	2.84E-09	3.78E+01	8.31E-03
770	4.28E+01	1.77E+01	2.34E-05	1.92E-09	3.95E+01	6.43E-03
780	4.32E+01	1.56E+01	1.72E-05	1.30E-09	4.12E+01	4.96E-03
790	4.34E+01	1.37E+01	1.27E-05	8.74E-10	4.29E+01	3.82E-03
800	4.35E+01	1.20E+01	9.33E-06	5.88E-10	4.44E+01	2.94E-03
D-172	LAT-40; LON-45; LT-12; F-70; FAV-70; A _p -3; UTI-9					
80	5.42E-04	1.21E-03	2.08E+01	8.77E-01	1.79E-05	7.83E+01
90	6.08E-04	3.09E-01	2.04E+01	8.23E-01	1.25E-04	7.85E+01
100	9.56E-04	3.45E+00	1.83E+01	6.77E-01	2.18E-04	7.76E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
110	2.48E-03	1.02E+01	1.40E+01	4.11E-01	5.43E-04	7.53E+01
120	7.41E-03	1.81E+01	9.91E+00	2.65E-01	1.10E-03	7.17E+01
130	2.40E-02	2.50E+01	7.46E+00	1.66E-01	1.60E-03	6.74E+01
140	5.69E-02	3.10E+01	6.07E+00	1.09E-01	2.02E-03	6.28E+01
150	9.51E-02	3.66E+01	5.12E+00	7.44E-02	2.43E-03	5.81E+01
160	1.42E-01	4.20E+01	4.35E+00	5.24E-02	2.95E-03	5.34E+01
170	2.03E-01	4.72E+01	3.70E+00	3.76E-02	3.64E-03	1.88E+01
180	2.81E-01	5.23E+01	3.13E+00	2.73E-02	4.60E-03	4.43E+01
190	3.80E-01	5.71E+01	2.64E+00	2.00E-02	5.92E-03	3.98E+01
200	5.04E-01	6.17E+01	2.21E+00	1.16E-02	7.69E-03	3.56E+01
210	6.56E-01	6.59E+01	1.84E+00	1.07E-02	1.00E-02	3.16E+01
220	8.44E-01	6.98E+01	1.52E+00	7.81E-03	1.31E-02	2.78E+01
230	1.07E+00	7.33E+01	1.25E+00	5.67E-03	1.71E-02	2.43E+01
240	1.35E+00	7.64E+01	1.03E+00	4.11E-03	2.22E-02	2.12E+01
250	1.68E+00	7.92E+01	8.35E-01	2.96E-03	2.87E-02	1.83E+01
260	2.07E+00	8.15E+01	6.77E-01	2.13E-03	3.69E-02	1.57E+01
270	2.55E+00	8.34E+01	5.46E-01	1.52E-03	4.72E-02	1.35E+01
280	3.10E+00	8.49E+01	4.39E-01	1.09E-03	6.01E-02	1.15E+01
290	3.76E+00	8.60E+01	3.51E-01	7.73E-04	7.60E-02	9.77E+00
300	4.54E+00	8.68E+01	2.80E-01	5.18E-04	9.57E-02	8.27E+00
310	5.45E+00	8.72E+01	2.23E-01	3.88E-04	1.20E-01	6.99E+00
320	6.51E+00	8.73E+01	1.77E-01	2.74E-04	1.50E-01	5.87E+00
330	7.73E+00	8.70E+01	1.40E-01	1.92E-04	1.86E-01	4.91E+00
340	9.14E+00	8.64E+01	1.10E-01	1.35E-04	2.29E-01	4.10E+00
350	1.08E+01	8.55E+01	8.62E-02	9.41E-05	2.82E-01	3.41E+00
360	1.26E+01	8.42E+01	6.74E-02	6.55E-05	3.45E-01	2.82E+00
370	1.47E+01	8.25E+01	5.25E-02	4.55E-05	4.19E-01	2.33E+00
380	1.70E+01	8.05E+01	4.07E-02	3.15E-05	5.07E-01	1.91E+00
390	1.96E+01	7.82E+01	3.15E-02	2.17E-05	6.10E-01	1.56E+00
400	2.25E+01	7.55E+01	2.42E-02	1.49E-05	7.30E-01	1.27E+00
410	2.56E+01	7.25E+01	1.85E-02	1.02E-05	8.68E-01	1.03E+00
420	2.89E+01	6.92E+01	1.41E-02	6.90E-06	1.02E+00	8.29E-01
430	3.25E+01	6.56E+01	1.06E-02	4.66E-06	1.20E+00	6.64E-01
440	3.63E+01	6.18E+01	8.00E-03	3.13E-06	1.40E+00	5.28E-01
450	4.02E+01	5.78E+01	5.98E-03	2.09E-06	1.61E+00	4.17E-01
460	4.41E+01	5.37E+01	4.44E-03	1.39E-06	1.85E+00	3.28E-01
470	4.81E+01	4.95E+01	3.28E-03	9.15E-07	2.10E+00	2.56E-01
480	5.21E+01	4.54E+01	2.40E-03	6.00E-07	2.37E+00	1.98E-01
490	5.59E+01	4.12E+01	1.75E-03	3.91E-07	2.66E+00	1.53E-01
500	5.97E+01	3.73E+01	1.27E-03	2.54E-07	2.95E+00	1.17E-01
510	6.32E+01	3.34E+01	9.11E-04	1.63E-07	3.26E+00	8.88E-02
520	6.65E+01	2.98E+01	6.52E-04	1.05E-07	3.58E+00	6.72E-02
530	6.96E+01	2.65E+01	4.65E-04	6.69E-08	3.90E+00	5.05E-02
540	7.24E+01	2.34E+01	3.30E-04	4.25E-08	4.22E+00	3.79E-02
550	7.49E+01	2.05E+01	2.33E-04	2.69E-08	4.55E+00	2.82E-02
560	7.71E+01	1.80E+01	1.61E-04	1.70E-08	4.88E+00	2.19E-02
570	7.91E+01	1.57E+01	1.15E-04	1.07E-08	5.22E+00	1.55E-02
580	8.08E+01	1.36E+01	8.05E-05	6.72E-09	5.55E+00	1.15E-02
590	8.23E+01	1.18E+01	5.62E-05	4.21E-09	5.89E+00	8.16E-03
600	8.36E+01	1.02E+01	3.92E-05	2.64E-09	6.22E+00	6.22E-03

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	8.47E+01	8.78E+00	2.72E-05	1.65E-09	6.56E+00	4.57E-03
620	8.55E+01	7.56E+00	1.89E-05	1.03E-09	6.90E+00	3.35E-03
630	8.63E+01	6.50E+00	1.31E-05	6.43E-10	7.24E+00	2.45E-03
640	8.68E+01	5.58E+00	9.12E-06	4.01E-10	7.59E+00	1.80E-03
650	8.73E+01	4.78E+00	6.33E-06	2.50E-10	7.94E+00	1.31E-03
660	8.76E+01	4.10E+00	4.39E-06	1.56E-10	8.29E+00	9.60E-04
670	8.78E+01	3.51E+00	3.04E-06	9.74E-11	8.65E+00	7.01E-04
680	8.80E+01	3.00E+00	2.11E-06	6.08E-11	9.01E+00	5.13E-04
690	8.81E+01	2.56E+00	1.46E-06	3.80E-11	9.38E+00	3.75E-04
700	8.81E+01	2.19E+00	1.01E-06	2.37E-11	9.75E+00	2.74E-04
710	8.80E+01	1.87E+00	7.04E-07	1.48E-11	1.01E+01	2.00E-04
720	8.79E+01	1.60E+00	4.89E-07	9.28E-12	1.05E+01	1.46E-04
730	8.77E+01	1.37E+00	3.39E-07	5.81E-12	1.09E+01	1.07E-04
740	8.75E+01	1.17E+00	2.36E-07	3.64E-12	1.13E+01	7.83E-05
750	8.73E+01	9.99E-01	1.64E-07	2.28E-12	1.17E+01	5.73E-05
760	8.70E+01	8.53E-01	1.14E-07	1.43E-12	1.22E+01	4.20E-05
770	8.67E+01	7.29E-01	7.94E-08	9.00E-13	1.26E+01	3.08E-05
780	8.63E+01	6.23E-01	5.53E-08	5.66E-13	1.30E+01	2.26E-05
790	8.60E+01	5.33E-01	3.86E-08	3.57E-13	1.35E+01	1.65E-05
800	8.56E+01	4.55E-01	2.69E-08	2.25E-13	1.39E+01	1.21E-05

D—172; LAT—80; LON—45; LT—12; F—70; FAV—70; A_p—3; UTI—9

80	5.41E-04	1.13E-03	2.09E+01	8.98E-01	1.94E-05	7.82E+01
90	6.01E-04	2.85E-01	2.05E+01	8.56E-01	1.40E-04	7.84E+01
100	9.54E-04	3.16E+00	1.88E+01	7.17E-01	2.62E-04	7.74E+01
110	2.39E-03	9.08E+00	1.53E+01	4.94E-01	6.54E-04	7.52E+01
120	7.19E-03	1.57E+01	1.17E+01	3.18E-01	1.33E-03	7.22E+01
130	2.86E-02	2.16E+01	9.39E+00	2.13E-01	2.07E-03	6.88E+01
140	7.76E-02	2.68E+01	7.92E+00	1.48E-01	2.77E-03	6.51E+01
150	1.34E-01	3.16E+01	6.84E+00	1.06E-01	3.52E-03	6.13E+01
160	2.02E-01	3.64E+01	5.94E+00	7.77E-02	4.47E-03	5.73E+01
170	2.92E-01	4.12E+01	5.15E+00	5.77E-02	5.75E-03	5.33E+01
180	4.08E-01	4.59E+01	4.45E+00	4.32E-02	7.49E-03	4.92E+01
190	5.58E-01	5.05E+01	3.82E+00	3.24E-02	9.88E-03	4.51E+01
200	7.47E-01	5.50E+01	3.26E+00	2.43E-02	1.31E-02	4.10E+01
210	9.85E-01	5.92E+01	2.76E+00	1.81E-02	1.74E-02	3.70E+01
220	1.28E+00	6.33E+01	2.32E+00	1.35E-02	2.31E-02	3.31E+01
230	1.64E+00	6.70E+01	1.94E+00	9.96E-03	3.06E-02	2.94E+01
240	2.08E+00	7.03E+01	1.61E+00	7.32E-03	4.01E-02	2.59E+01
250	2.62E+00	7.33E+01	1.33E+00	5.35E-03	5.23E-02	2.27E+01
260	3.25E+00	7.59E+01	1.09E+00	3.89E-03	6.77E-02	1.97E+01
270	4.01E+00	7.80E+01	8.85E-01	2.81E-03	8.70E-02	1.70E+01
280	4.91E+00	7.97E+01	7.16E-01	2.02E-03	1.11E-01	1.46E+01
290	5.96E+00	8.09E+01	5.76E-01	1.45E-03	1.41E-01	1.25E+01
300	7.18E+00	8.16E+01	4.61E-01	1.03E-03	1.77E-01	1.06E+01

Продолжение табл. 7

г, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	8.66E+00	8.17E+01	3.70E-01	7.36E-04	2.23E-01	9.00E+00
320	1.03E+01	8.16E+01	2.93E-01	5.19E-04	2.77E-01	7.54E+00
330	1.22E+01	8.10E+01	2.31E-01	3.64E-04	3.41E-01	6.30E+00
340	1.43E+01	7.99E+01	1.81E-01	2.54E-04	4.18E-01	5.23E+00
350	1.66E+01	7.84E+01	1.41E-01	1.77E-04	5.08E-01	4.32E+00
360	1.93E+01	7.65E+01	1.09E-01	1.22E-04	6.14E-01	3.54E+00
370	2.22E+01	7.41E+01	8.43E-02	8.41E-05	7.38E-01	2.90E+00
380	2.53E+01	7.14E+01	6.47E-02	5.76E-05	8.80E-01	2.35E+00
390	2.87E+01	6.83E+01	4.93E-02	3.92E-05	1.04E+00	1.90E+00
400	3.23E+01	6.49E+01	3.74E-02	2.65E-05	1.22E+00	1.52E+00
410	3.61E+01	6.12E+01	2.81E-02	1.78E-05	1.43E+00	1.21E+00
420	4.00E+01	5.73E+01	2.10E-02	1.19E-05	1.65E+00	9.58E-01
430	4.40E+01	5.33E+01	1.56E-02	7.91E-06	1.89E+00	7.53E-01
440	4.81E+01	4.92E+01	1.15E-02	5.22E-06	2.15E+00	5.88E-01
450	5.20E+01	4.51E+01	8.45E-03	3.42E-06	2.43E+00	4.55E-01
460	5.59E+01	4.10E+01	6.16E-03	2.23E-06	2.72E+00	3.51E-01
470	5.97E+01	3.70E+01	4.46E-03	1.45E-06	3.03E+00	2.68E-01
480	6.32E+01	3.32E+01	3.21E-03	9.31E-07	3.34E+00	2.01E-01
490	6.65E+01	2.97E+01	2.29E-03	5.97E-07	3.67E+00	1.54E-01
500	6.96E+01	2.63E+01	1.63E-03	3.81E-07	4.00E+00	1.16E-01
510	7.24E+01	2.32E+01	1.16E-03	2.42E-07	4.33E+00	8.69E-02
520	7.49E+01	2.04E+01	8.18E-04	1.53E-07	4.67E+00	6.48E-02
530	7.71E+01	1.78E+01	5.75E-04	9.66E-08	5.01E+00	4.81E-02
540	7.91E+01	1.55E+01	4.03E-04	6.08E-08	5.35E+00	3.56E-02
550	8.08E+01	1.35E+01	2.82E-04	3.82E-08	5.69E+00	2.63E-02
560	8.23E+01	1.17E+01	1.97E-04	2.39E-08	6.04E+00	1.94E-02
570	8.35E+01	1.01E+01	1.37E-04	1.49E-08	6.38E+00	1.42E-02
580	8.46E+01	8.70E+00	9.54E-05	9.34E-09	6.73E+00	1.05E-02
590	8.54E+01	7.49E+00	6.63E-05	5.83E-09	7.07E+00	7.66E-03
600	8.61E+01	6.43E+00	4.60E-05	3.64E-09	7.42E+00	5.61E-03
610	8.67E+01	5.52E+00	3.19E-05	2.27E-09	7.77E+00	4.10E-03
620	8.71E+01	4.73E+00	2.21E-05	1.41E-09	8.13E+00	3.00E-03
630	8.75E+01	4.05E+00	1.53E-05	8.81E-10	8.49E+00	2.19E-03
640	8.77E+01	3.47E+00	1.06E-05	5.50E-10	8.86E+00	1.60E-03
650	8.78E+01	2.97E+00	7.36E-06	3.43E-10	9.23E+00	1.17E-03
660	8.79E+01	2.54E+00	5.10E-06	2.14E-10	9.60E+00	8.51E-04
670	8.78E+01	2.17E+00	3.54E-06	1.34E-10	9.98E+00	6.24E-04
680	8.78E+01	1.85E+00	2.45E-06	8.35E-11	1.04E+01	4.56E-04
690	8.76E+01	1.58E+00	1.70E-06	5.22E-11	1.08E+01	3.33E-04
700	8.75E+01	1.35E+00	1.18E-06	3.27E-11	1.12E+01	2.44E-04
710	8.73E+01	1.15E+00	8.21E-07	2.05E-11	1.16E+01	1.78E-04
720	8.70E+01	9.86E-01	5.70E-07	1.28E-11	1.20E+01	1.30E-04
730	8.67E+01	8.42E-01	3.97E-07	8.05E-12	1.24E+01	9.55E-05
740	8.64E+01	7.19E-01	2.76E-07	5.06E-12	1.29E+01	6.99E-05
750	8.61E+01	6.15E-01	1.92E-07	3.18E-12	1.33E+01	5.13E-05
760	8.57E+01	5.25E-01	1.34E-07	2.00E-12	1.38E+01	3.76E-05
770	8.53E+01	4.49E-01	9.34E-08	1.26E-12	1.43E+01	2.76E-05
780	8.49E+01	3.84E-01	6.52E-08	7.95E-13	1.47E+01	2.02E-05
790	8.44E+01	3.28E-01	4.55E-08	5.02E-13	1.52E+01	1.39E-05
800	8.40E+01	2.80E-01	3.18E-08	3.17E-13	1.57E+01	1.09E-05

Широтные вариации состава при средней солнечной активности
для летнего солнцестояния в северном и зимнего в южном полушариях

λ , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
<i>D</i> 172; LAT=0; LON=45; LT= 12; <i>F</i> =150; <i>F</i> Δ <i>V</i> =150; <i>A_p</i> =3; UT1-9						
80	5.58E-04	1.18E-03	2.07E+01	8.99E-01	1.62E-05	7.84E+01
90	6.16E-04	2.98E-01	2.02E+01	8.63E-01	1.01E-04	7.87E+01
100	9.60E-04	3.32E+00	1.78E+01	7.36E-01	1.55E-04	7.82E+01
110	2.52E-03	1.02E+01	1.28E+01	4.86E-01	3.65E-04	7.66E+01
120	7.16E-03	1.85E+01	8.15E+00	2.97E-01	7.68E-04	7.30E+01
130	1.18E-02	2.47E+01	5.90E+00	2.04E-01	9.38E-04	6.91E+01
140	1.71E-02	2.95E+01	4.85E+00	1.48E-01	9.73E-04	6.54E+01
150	2.46E-02	3.37E+01	4.22E+00	1.12E-01	9.76E-04	6.20E+01
160	3.40E-02	3.75E+01	3.76E+00	8.79E-02	1.00E-03	5.87E+01
170	4.52E-02	4.10E+01	3.37E+00	7.01E-02	1.08E-03	5.55E+01
180	5.85E-02	4.45E+01	3.03E+00	5.66E-02	1.20E-03	5.24E+01
190	7.42E-02	4.79E+01	2.72E+00	4.61E-02	1.39E-03	4.93E+01
200	9.26E-02	5.11E+01	2.44E+00	3.77E-02	1.64E-03	4.63E+01
210	1.14E-01	5.43E+01	2.19E+00	3.09E-02	1.97E-03	4.34E+01
220	1.39E-01	5.74E+01	1.95E+00	2.53E-02	2.39E-03	4.05E+01
230	1.67E-01	6.04E+01	1.75E+00	2.08E-02	2.89E-03	3.77E+01
240	2.00E-01	6.32E+01	1.56E+00	1.70E-02	3.51E-03	3.50E+01
250	2.38E-01	6.60E+01	1.38E+00	1.39E-02	4.26E-03	3.24E+01
260	2.81E-01	6.86E+01	1.23E+00	1.14E-02	5.14E-03	2.99E+01
270	3.30E-01	7.10E+01	1.08E+00	9.29E-03	6.19E-03	2.75E+01
280	3.85E-01	7.34E+01	9.56E-01	7.57E-03	7.43E-03	2.53E+01
290	4.48E-01	7.55E+01	8.42E-01	6.15E-03	8.89E-03	2.32E+01
300	5.19E-01	7.76E+01	7.40E-01	5.00E-03	1.06E-02	2.12E+01
310	6.02E-01	7.93E+01	6.52E-01	4.07E-03	1.26E-02	1.94E+01
320	6.92E-01	8.11E+01	5.70E-01	3.29E-03	1.50E-02	1.76E+01
330	7.93E-01	8.27E+01	4.98E-01	2.66E-03	1.76E-02	1.60E+01
340	9.07E-01	8.41E+01	4.34E-01	2.15E-03	2.07E-02	1.45E+01
350	1.03E+00	8.54E+01	3.78E-01	1.73E-03	2.43E-02	1.31E+01
360	1.18E+00	8.66E+01	3.28E-01	1.39E-03	2.85E-02	1.19E+01
370	1.33E+00	8.77E+01	2.85E-01	1.12E-03	3.33E-02	1.07E+01
380	1.51E+00	8.86E+01	2.48E-01	9.02E-04	3.88E-02	9.64E+00
390	1.71E+00	8.94E+01	2.15E-01	7.25E-04	4.51E-02	8.68E+00
400	1.93E+00	9.00E+01	1.86E-01	5.82E-04	5.24E-02	7.81E+00
410	2.17E+00	9.06E+01	1.61E-01	4.67E-04	6.07E-02	7.02E+00
420	2.45E+00	9.10E+01	1.39E-01	3.75E-04	7.03E-02	6.30E+00
430	2.75E+00	9.14E+01	1.20E-01	3.01E-04	8.12E-02	5.65E+00
440	3.08E+00	9.17E+01	1.04E-01	2.41E-04	9.37E-02	5.07E+00
450	3.45E+00	9.18E+01	8.96E-02	1.93E-04	1.08E-01	4.54E+00
460	3.86E+00	9.19E+01	7.73E-02	1.55E-04	1.24E-01	4.06E+00
470	4.31E+00	9.18E+01	6.67E-02	1.24E-04	1.42E-01	3.64E+00
480	4.81E+00	9.17E+01	5.74E-02	9.91E-05	1.63E-01	3.25E+00
490	5.36E+00	9.15E+01	4.95E-02	7.93E-05	1.87E-01	2.90E+00
500	5.96E+00	9.12E+01	4.26E-02	6.31E-05	2.14E-01	2.59E+00

$z, \text{ км}$	$\text{H}/S, \%$	$\text{O}/S, \%$	$\text{O}_2/S, \%$	$\text{Ar}/S, \%$	$\text{H}/S, \%$	$\text{Ne}/S, \%$
510	6.62E+00	9.08E+01	3.66E-02	5.07E-05	2.44E-01	2.31E+00
520	7.35E+00	9.03E+01	3.15E-02	4.03E-05	2.79E-01	2.06E+00
530	8.14E+00	8.97E+01	2.70E-02	3.24E-05	3.17E-01	1.84E+00
540	9.00E+00	8.90E+01	2.32E-02	2.58E-05	3.60E-01	1.64E+00
550	9.91E+00	8.82E+01	1.99E-02	2.06E-05	4.09E-01	1.45E+00
560	1.10E+01	8.73E+01	1.71E-02	1.64E-05	4.63E-01	1.29E+00
570	1.21E+01	8.62E+01	1.46E-02	1.31E-05	5.24E-01	1.15E+00
580	1.33E+01	8.51E+01	1.25E-02	1.04E-05	5.91E-01	1.02E+00
590	1.45E+01	8.39E+01	1.07E-02	8.29E-06	6.66E-01	8.99E-01
600	1.59E+01	8.25E+01	9.10E-03	6.59E-06	7.49E-01	7.95E-01
610	1.74E+01	8.11E+01	7.75E-03	5.23E-06	8.41E-01	7.02E-01
620	1.90E+01	7.95E+01	6.60E-03	4.15E-06	9.41E-01	6.19E-01
630	2.06E+01	7.78E+01	5.61E-03	3.28E-06	1.05E+00	5.45E-01
640	2.24E+01	7.59E+01	4.76E-03	2.60E-06	1.17E+00	4.79E-01
650	2.43E+01	7.40E+01	4.03E-03	2.05E-06	1.30E+00	4.20E-01
660	2.62E+01	7.20E+01	3.41E-03	1.62E-06	1.44E+00	3.68E-01
670	2.82E+01	6.98E+01	2.87E-03	1.27E-06	1.60E+00	3.21E-01
680	3.03E+01	6.76E+01	2.42E-03	9.99E-07	1.76E+00	2.80E-01
690	3.25E+01	6.53E+01	2.04E-03	7.83E-07	1.94E+00	2.44E-01
700	3.47E+01	6.29E+01	1.71E-03	6.13E-07	2.13E+00	2.12E-01
710	3.70E+01	6.03E+01	1.43E-03	4.79E-07	2.33E+00	1.84E-01
720	3.94E+01	5.79E+01	1.19E-03	3.73E-07	2.54E+00	1.59E-01
730	4.17E+01	5.54E+01	9.95E-04	2.91E-07	2.76E+00	1.37E-01
740	4.41E+01	5.28E+01	8.27E-04	2.26E-07	2.99E+00	1.18E-01
750	4.64E+01	5.02E+01	6.86E-04	1.75E-07	3.23E+00	1.01E-01
760	4.88E+01	4.77E+01	5.68E-04	1.35E-07	3.48E+00	8.66E-02
770	5.11E+01	4.51E+01	4.69E-04	1.04E-07	3.74E+00	7.40E-02
780	5.34E+01	4.26E+01	3.87E-04	8.04E-08	4.01E+00	6.31E-02
790	5.56E+01	4.01E+01	3.18E-04	6.19E-08	4.28E+00	5.37E-02
800	5.78E+01	3.76E+01	2.62E-04	4.75E-08	4.56E+00	4.56E-02
D-172; LAT-40; LON-45; LT-12; F-150; FAV-150; A _p -3; UTI-9						
80	5.41E-04	1.16E-03	2.07E+01	8.97E-01	1.49E-05	7.84E+01
90	6.06E-04	2.94E-01	2.01E+01	8.56E-01	9.72E-05	7.88E+01
100	9.62E-04	3.30E+00	1.75E+01	7.21E-01	1.58E-04	7.85E+01
110	2.43E-03	9.85E+00	1.23E+01	4.93E-01	3.57E-04	7.74E+01
120	5.75E-03	1.76E+01	7.61E+00	3.08E-01	6.72E-04	7.44E+01
130	7.55E-03	2.36E+01	5.36E+00	2.10E-01	8.37E-04	7.08E+01
140	9.34E-03	2.81E+01	4.37E+00	1.53E-01	8.64E-04	6.73E+01
150	1.30E-02	3.20E+01	3.62E+00	1.16E-01	8.60E-04	6.41E+01
160	1.78E-02	3.55E+01	3.42E+00	9.14E-02	8.75E-04	6.10E+01
170	2.36E-02	3.89E+01	3.09E+00	7.34E-02	9.30E-04	5.79E+01
180	3.04E-02	4.21E+01	2.79E+00	5.98E-02	1.03E-03	5.50E+01
190	3.84E-02	4.53E+01	2.53E+00	4.92E-02	1.18E-03	5.21E+01
200	4.77E-02	4.84E+01	2.29E+00	4.06E-02	1.39E-03	4.92E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	5.85E-02	5.14E+01	2.07E-00	3.37E-02	1.66E-03	4.64E+01
220	7.11E-02	5.44E+01	1.86E+00	2.79E-02	2.00E-03	4.36E+01
230	8.55E-02	5.73E+01	1.68E+00	2.31E-02	2.42E-03	4.09E+01
240	1.02E-01	6.02E+01	1.51E+00	1.92E-02	2.92E-03	3.82E+01
250	1.21E-01	6.29E+01	1.35E+00	1.59E-02	3.53E-03	3.56E+01
260	1.43E-01	6.55E+01	1.21E+00	1.31E-02	4.26E-03	3.31E+01
270	1.68E-01	6.81E+01	1.07E+00	1.08E-02	5.12E-03	3.07E+01
280	1.96E-01	7.05E+01	9.56E-01	8.90E-03	6.13E-03	2.84E+01
290	2.27E-01	7.28E+01	8.48E-01	7.31E-03	7.32E-03	2.61E+01
300	2.63E-01	7.49E+01	7.51E-01	6.00E-03	8.70E-03	2.40E+01
310	3.05E-01	7.68E+01	6.67E-01	4.94E-03	1.04E-02	2.22E+01
320	3.50E-01	7.87E+01	5.88E-01	4.04E-03	1.22E-02	2.03E+01
330	4.01E-01	8.05E+01	5.17E-01	3.30E-03	1.44E-02	1.85E+01
340	4.58E-01	8.22E+01	4.54E-01	2.69E-03	1.69E-02	1.69E+01
350	5.22E-01	8.37E+01	3.99E-01	2.19E-03	1.98E-02	1.54E+01
360	5.93E-01	8.50E+01	3.49E-01	1.78E-03	2.32E-02	1.40E+01
370	6.73E-01	8.63E+01	3.06E-01	1.45E-03	2.70E-02	1.27E+01
380	7.61E-01	8.74E+01	2.67E-01	1.17E-03	3.14E-02	1.15E+01
390	8.60E-01	8.84E+01	2.33E-01	9.52E-04	3.65E-02	1.04E+01
400	9.70E-01	8.93E+01	2.03E-01	7.72E-04	4.23E-02	9.46E+00
410	1.09E+00	9.01E+01	1.77E-01	6.26E-04	4.90E-02	8.55E+00
420	1.23E+00	9.08E+01	1.55E-01	5.07E-04	5.66E-02	7.73E+00
430	1.38E+00	9.14E+01	1.35E-01	4.10E-04	6.53E-02	6.98E+00
440	1.54E+00	9.20E+01	1.17E-01	3.32E-04	7.52E-02	6.29E+00
450	1.73E+00	9.24E+01	1.02E-01	2.69E-04	8.65E-02	5.68E+00
460	1.93E+00	9.28E+01	8.85E-02	2.17E-04	9.93E-02	5.11E+00
470	2.16E+00	9.30E+01	7.69E-02	1.76E-04	1.14E-01	4.61E+00
480	2.41E+00	9.32E+01	6.68E-02	1.42E-04	1.31E-01	4.15E+00
490	2.69E+00	9.34E+01	5.80E-02	1.15E-04	1.50E-01	3.73E+00
500	2.99E+00	9.34E+01	5.04E-02	9.30E-05	1.71E-01	3.36E+00
510	3.33E+00	9.34E+01	4.37E-02	7.52E-05	1.95E-01	3.02E+00
520	3.69E+00	9.33E+01	3.79E-02	6.07E-05	2.23E-01	2.71E+00
530	4.10E+00	9.32E+01	3.29E-02	4.91E-05	2.54E-01	2.44E+00
540	4.54E+00	9.30E+01	2.85E-02	3.97E-05	2.89E-01	2.19E+00
550	5.03E+00	9.27E+01	2.47E-02	3.20E-05	3.28E-01	1.96E+00
560	5.56E+00	9.23E+01	2.14E-02	2.59E-05	3.73E-01	1.76E+00
570	6.15E+00	9.18E+01	1.85E-02	2.09E-05	4.23E-01	1.58E+00
580	6.78E+00	9.13E+01	1.60E-02	1.69E-05	4.79E-01	1.41E+00
590	7.48E+00	9.07E+01	1.39E-02	1.36E-05	5.41E-01	1.27E+00
600	8.23E+00	9.00E+01	1.20E-02	1.10E-05	6.12E-01	1.13E+00
610	9.05E+00	8.92E+01	1.03E-02	8.85E-06	6.90E-01	1.01E+00
620	9.93E+00	8.84E+01	8.93E-03	7.14E-06	7.77E-01	9.04E-01
630	1.09E+01	8.74E+01	7.70E-03	5.75E-06	8.74E-01	8.07E-01
640	1.19E+01	8.64E+01	6.64E-03	4.63E-06	9.81E-01	7.20E-01
650	1.30E+01	8.52E+01	5.72E-03	3.72E-06	1.10E+00	6.41E-01
660	1.42E+01	8.40E+01	4.92E-03	2.99E-06	1.23E+00	5.71E-01
670	1.55E+01	8.26E+01	4.23E-03	2.40E-06	1.38E+00	5.08E-01
680	1.68E+01	8.12E+01	3.63E-03	1.93E-06	1.53E+00	4.51E-01
690	1.83E+01	7.96E+01	3.11E-03	1.55E-06	1.71E+00	4.00E-01
700	1.98E+01	7.80E+01	2.66E-03	1.21E-06	1.90E+00	3.54E-01

Продолжение табл. 8

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
710	2.14E+01	7.62E+01	2.28E-03	9.90E-07	2.10E+00	3.13E-01
720	2.30E+01	7.44E+01	1.94E-03	7.91E-07	2.32E+00	2.76E-01
730	2.48E+01	7.24E+01	1.66E-03	6.30E-07	2.56E+00	2.43E-01
740	2.66E+01	7.04E+01	1.41E-03	5.02E-07	2.82E+00	2.14E-01
750	2.85E+01	6.82E+01	1.20E-03	3.99E-07	3.09E+00	1.88E-01
760	3.04E+01	6.60E+01	1.02E-03	3.17E-07	3.39E+00	1.65E-01
770	3.24E+01	6.37E+01	8.60E-04	2.51E-07	3.70E+00	1.44E-01
780	3.45E+01	6.14E+01	7.26E-04	1.99E-07	4.03E+00	1.26E-01
790	3.65E+01	5.90E+01	6.12E-04	1.57E-07	4.38E+00	1.10E-01
800	3.86E+01	5.65E+01	5.15E-04	1.24E-07	4.74E+00	9.52E-02

D 172; LAT-80; LON-45; LT-12; F 150; FΔV-150; A_g-3; UTI-9

80	5.36E-04	1.04E-03	2.08E+01	9.41E-01	1.30E-05	7.83E+01
90	5.91E-04	2.60E-01	2.02E+01	9.28E-01	7.93E-05	7.86E+01
100	9.60E-04	2.89E+00	1.78E+01	8.18E-01	1.32E-04	7.85E+01
110	2.33E-03	8.38E+00	1.31E+01	6.10E-01	2.70E-04	7.79E+01
120	4.64E-03	1.46E+01	8.66E+00	4.28E-01	4.36E-04	7.63E+01
130	4.28E-03	1.94E+01	6.39E+00	3.24E-01	5.00E-04	7.38E+01
140	4.21E-03	2.31E+01	5.37E+00	2.58E-01	4.78E-04	7.13E+01
150	5.64E-03	2.61E+01	4.79E+00	2.11E-01	4.45E-04	6.89E+01
160	7.74E-03	2.89E+01	4.37E+00	1.76E-01	4.31E-04	6.66E+01
170	1.03E-02	3.15E+01	4.01E+00	1.47E-01	4.42E-04	6.43E+01
180	1.34E-02	3.41E+01	3.70E+00	1.24E-01	4.79E-04	6.21E+01
190	1.71E-02	3.67E+01	3.41E+00	1.05E-01	5.41E-04	5.98E+01
200	2.14E-02	3.93E+01	3.14E+00	8.94E-02	6.31E-04	5.75E+01
210	2.64E-02	4.19E+01	2.90E+00	7.59E-02	7.51E-04	5.51E+01
220	3.23E-02	4.45E+01	2.66E+00	6.45E-02	9.04E-04	5.27E+01
230	3.92E-02	4.72E+01	2.41E+00	5.48E-02	1.10E-03	5.03E+01
240	4.72E-02	4.98E+01	2.24E+00	4.65E-02	1.33E-03	4.79E+01
250	5.64E-02	5.25E+01	2.04E+00	3.94E-02	1.61E-03	4.54E+01
260	6.70E-02	5.51E+01	1.86E+00	3.33E-02	1.95E-03	4.30E+01
270	7.91E-02	5.77E+01	1.69E+00	2.81E-02	2.36E-03	4.05E+01
280	9.29E-02	6.02E+01	1.53E+00	2.37E-02	2.84E-03	3.81E+01
290	1.09E-01	6.28E+01	1.39E+00	1.99E-02	3.40E-03	3.57E+01
300	1.26E-01	6.52E+01	1.25E+00	1.67E-02	4.06E-03	3.34E+01
310	1.48E-01	6.72E+01	1.14E+00	1.41E-02	4.88E-03	3.15E+01
320	1.71E-01	6.95E+01	1.02E+00	1.18E-02	5.78E-03	2.93E+01
330	1.96E-01	7.17E+01	9.12E-01	9.82E-03	6.81E-03	2.71E+01
340	2.25E-01	7.38E+01	8.15E-01	8.17E-03	8.01E-03	2.51E+01
350	2.57E-01	7.58E+01	7.26E-01	6.78E-03	9.40E-03	2.32E+01
360	2.92E-01	7.77E+01	6.46E-01	5.63E-03	1.10E-02	2.14E+01
370	3.32E-01	7.94E+01	5.74E-01	4.66E-03	1.28E-02	1.97E+01
380	3.76E-01	8.10E+01	5.09E-01	3.85E-03	1.49E-02	1.81E+01
390	4.26E-01	8.25E+01	4.51E-01	3.18E-03	1.73E-02	1.66E+01
400	4.81E-01	8.39E+01	3.99E-01	2.63E-03	2.01E-02	1.52E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	Ne/S, %	N ₂ /S, %
410	5.41E-01	8.52E+01	3.53E-01	2.17E-03	2.32E-02	1.39E+01
420	6.09E-01	8.64E+01	3.11E-01	1.79E-03	2.68E-02	1.27E+01
430	6.83E-01	8.74E+01	2.75E-01	1.47E-03	3.08E-02	1.16E+01
440	7.66E-01	8.84E+01	2.42E-01	1.21E-03	3.55E-02	1.06E+01
450	8.57E-01	8.93E+01	2.13E-01	9.95E-04	1.07E-02	9.64E+00
460	9.58E-01	9.00E+01	1.88E-01	8.18E-04	4.67E-02	8.77E+00
470	1.07E+00	9.07E+01	1.65E-01	6.72E-04	5.34E-02	7.98E+00
480	1.19E+00	9.13E+01	1.45E-01	5.52E-04	6.11E-02	7.26E+00
490	1.33E+00	9.19E+01	1.27E-01	4.54E-04	6.97E-02	6.60E+00
500	1.47E+00	9.23E+01	1.12E-01	3.72E-04	7.95E-02	5.99E+00
510	1.64E+00	9.27E+01	9.83E-02	3.06E-04	9.06E-02	5.41E+00
520	1.82E+00	9.31E+01	8.63E-02	2.51E-04	1.03E-01	4.91E+00
530	2.01E+00	9.33E+01	7.57E-02	2.06E-04	1.17E-01	4.48E+00
540	2.23E+00	9.35E+01	6.64E-02	1.69E-04	1.33E-01	4.06E+00
550	2.47E+00	9.36E+01	5.82E-02	1.39E-04	1.51E-01	3.68E+00
560	2.73E+00	9.37E+01	5.10E-02	1.14E-04	1.71E-01	3.34E+00
570	3.01E+00	9.37E+01	4.47E-02	9.33E-05	1.94E-01	3.02E+00
580	3.32E+00	9.37E+01	3.92E-02	7.65E-05	2.19E-01	2.74E+00
590	3.66E+00	9.36E+01	3.43E-02	6.28E-05	2.47E-01	2.48E+00
600	4.03E+00	9.34E+01	3.01E-02	5.15E-05	2.79E-01	2.24E+00
610	4.44E+00	9.32E+01	2.63E-02	4.22E-05	3.15E-01	2.03E+00
620	4.88E+00	9.29E+01	2.30E-02	3.46E-05	3.54E-01	1.83E+00
630	5.36E+00	9.26E+01	2.02E-02	2.84E-05	3.99E-01	1.66E+00
640	5.88E+00	9.22E+01	1.76E-02	2.33E-05	4.48E-01	1.50E+00
650	6.44E+00	9.17E+01	1.51E-02	1.91E-05	5.03E-01	1.35E+00
660	7.05E+00	9.11E+01	1.35E-02	1.56E-05	5.65E-01	1.22E+00
670	7.71E+00	9.05E+01	1.18E-02	1.28E-05	6.33E-01	1.10E+00
680	8.43E+00	8.99E+01	1.03E-02	1.05E-05	7.08E-01	9.93E-01
690	9.20E+00	8.91E+01	8.98E-03	8.60E-06	7.91E-01	8.95E-01
700	1.00E+01	8.83E+01	7.83E-03	7.04E-06	8.83E-01	8.06E-01
710	1.09E+01	8.74E+01	6.83E-03	5.76E-06	9.84E-01	7.25E-01
720	1.19E+01	8.61E+01	5.95E-03	4.71E-06	1.10E+00	6.52E-01
730	1.29E+01	8.53E+01	5.18E-03	3.85E-06	1.22E+00	5.86E-01
740	1.40E+01	8.42E+01	4.50E-03	3.15E-06	1.35E+00	5.26E-01
750	1.51E+01	8.29E+01	3.91E-03	2.57E-06	1.50E+00	4.72E-01
760	1.63E+01	8.16E+01	3.40E-03	2.09E-06	1.66E+00	4.23E-01
770	1.76E+01	8.02E+01	2.95E-03	1.71E-06	1.83E+00	3.78E-01
780	1.90E+01	7.87E+01	2.55E-03	1.39E-06	2.02E+00	3.38E-01
790	2.04E+01	7.71E+01	2.21E-03	1.13E-06	2.22E+00	3.02E-01
800	2.19E+01	7.54E+01	1.91E-03	9.18E-07	2.44E+00	2.69E-01

D-172, LAT-40; LON-15, LT-12; F-150; FΔV-150; A_p-3, UT1-9

80	5.14E-04	1.30E-03	2.08E-01	8.71E-01	1.55E-05	7.83E+01
90	6.09E-04	3.33E-01	2.03E+01	8.20E-01	1.02E-04	7.86E+01
100	9.56E-04	3.75E+00	1.80E+01	6.73E-01	1.63E-04	7.76E+01

z, мм	H ₀ /S, %	O/S, %	O ₂ /S, %	Al/S, %	H/S, %	N ₂ /S, %
110	2.48E-03	1.12E+01	1.33E+01	4.35E-01	3.72E-04	7.51E+01
120	7.20E-03	1.98E+01	8.86E+00	2.59E-01	6.79E-04	7.11E+01
130	2.03E-02	2.68E+01	6.49E+00	1.65E-01	8.52E-04	6.65E+01
140	4.26E-02	3.26E+01	5.28E+00	1.12E-01	9.14E-04	6.20E+01
150	6.64E-02	3.76E+01	4.51E+00	7.92E-02	9.45E-04	5.77E+01
160	9.37E-02	4.23E+01	3.92E+00	5.85E-02	9.97E-04	5.36E+01
170	1.26E-01	4.67E+01	3.43E+00	4.44E-02	1.09E-03	4.97E+01
180	1.64E-01	5.08E+01	3.01E+00	3.43E-02	1.24E-03	4.60E+01
190	2.09E-01	5.48E+01	2.63E+00	2.68E-02	1.44E-03	4.24E+01
200	2.62E-01	5.85E+01	2.30E+00	2.12E-02	1.72E-03	3.89E+01
210	3.23E-01	6.20E+01	2.01E+00	1.68E-02	2.08E-03	3.57E+01
220	3.93E-01	6.52E+01	1.76E+00	1.33E-02	2.52E-03	3.26E+01
230	4.74E-01	6.83E+01	1.53E+00	1.05E-02	3.07E-03	2.97E+01
240	5.67E-01	7.11E+01	1.33E+00	8.38E-03	3.73E-03	2.70E+01
250	6.73E-01	7.37E+01	1.15E+00	6.65E-03	4.53E-03	2.45E+01
260	7.93E-01	7.61E+01	9.98E-01	5.28E-03	5.48E-03	2.21E+01
270	9.30E-01	7.82E+01	8.63E-01	4.18E-03	6.60E-03	2.00E+01
280	1.09E+00	8.02E+01	7.44E-01	3.31E-03	7.93E-03	1.80E+01
290	1.26E+00	8.19E+01	6.41E-01	2.62E-03	9.50E-03	1.62E+01
300	1.46E+00	8.35E+01	5.52E-01	2.07E-03	1.13E-02	1.45E+01
310	1.68E+00	8.49E+01	4.73E-01	1.63E-03	1.34E-02	1.30E+01
320	1.93E+00	8.60E+01	4.06E-01	1.29E-03	1.59E-02	1.16E+01
330	2.21E+00	8.70E+01	3.48E-01	1.02E-03	1.88E-02	1.04E+01
340	2.53E+00	8.79E+01	2.98E-01	8.03E-04	2.22E-02	9.25E+00
350	2.89E+00	8.86E+01	2.55E-01	6.32E-04	2.61E-02	8.25E+00
360	3.29E+00	8.91E+01	2.18E-01	4.97E-04	3.07E-02	7.34E+00
370	3.73E+00	8.95E+01	1.86E-01	3.91E-04	3.59E-02	6.52E+00
380	4.23E+00	8.98E+01	1.58E-01	3.08E-04	4.20E-02	5.79E+00
390	4.78E+00	8.99E+01	1.35E-01	2.42E-04	4.89E-02	5.13E+00
400	5.40E+00	8.99E+01	1.15E-01	1.90E-04	5.69E-02	4.55E+00
410	6.08E+00	8.97E+01	9.75E-02	1.49E-04	6.60E-02	4.03E+00
420	6.84E+00	8.94E+01	8.28E-02	1.17E-04	7.65E-02	3.56E+00
430	7.67E+00	8.90E+01	7.02E-02	9.13E-05	8.85E-02	3.14E+00
440	8.59E+00	8.85E+01	5.95E-02	7.15E-05	1.02E-01	2.77E+00
450	9.60E+00	8.78E+01	5.04E-02	5.59E-05	1.18E-01	2.44E+00
460	1.07E+01	8.70E+01	4.26E-02	4.37E-05	1.35E-01	2.15E+00
470	1.19E+01	8.60E+01	3.60E-02	3.41E-05	1.55E-01	1.89E+00
480	1.32E+01	8.49E+01	3.04E-02	2.66E-05	1.77E-01	1.65E+00
490	1.47E+01	8.36E+01	2.56E-02	2.07E-05	2.02E-01	1.45E+00
500	1.62E+01	8.22E+01	2.15E-02	1.61E-05	2.30E-01	1.27E+00
510	1.79E+01	8.07E+01	1.81E-02	1.25E-05	2.61E-01	1.11E+00
520	1.97E+01	7.90E+01	1.51E-02	9.70E-06	2.96E-01	9.65E-01
530	2.16E+01	7.72E+01	1.27E-02	7.51E-06	3.35E-01	8.39E-01
540	2.37E+01	7.52E+01	1.06E-02	5.80E-06	3.77E-01	7.28E-01
550	2.58E+01	7.31E+01	8.81E-03	4.48E-06	4.23E-01	6.30E-01
560	2.81E+01	7.09E+01	7.33E-03	3.45E-06	4.74E-01	5.45E-01
570	3.04E+01	6.85E+01	6.08E-03	2.65E-06	5.29E-01	4.70E-01
580	3.29E+01	6.61E+01	5.03E-03	2.03E-06	5.88E-01	4.04E-01
590	3.55E+01	6.35E+01	4.15E-03	1.55E-06	6.52E-01	3.46E-01
600	3.81E+01	6.09E+01	3.42E-03	1.19E-06	7.21E-01	2.96E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	4.08E+01	5.82E+01	2.81E-03	9.03E-07	7.94E-01	2.53E-01
620	4.35E+01	5.54E+01	2.30E-03	6.86E-07	8.71E-01	2.15E-01
630	4.62E+01	5.26E+01	1.88E-03	5.20E-07	9.53E-01	1.82E-01
640	4.90E+01	4.98E+01	1.53E-03	3.93E-07	1.04E+00	1.54E-01
650	5.17E+01	4.70E+01	1.24E-03	2.96E-07	1.13E+00	1.30E-01
660	5.44E+01	4.42E+01	1.01E-03	2.23E-07	1.22E+00	1.09E-01
670	5.71E+01	4.15E+01	8.15E-04	1.67E-07	1.32E+00	9.18E-02
680	5.97E+01	3.88E+01	6.57E-04	1.25E-07	1.41E+00	7.68E-02
690	6.22E+01	3.62E+01	5.29E-04	9.35E-08	1.52E+00	6.41E-02
700	6.46E+01	3.37E+01	4.24E-04	6.97E-08	1.62E+00	5.34E-02
710	6.70E+01	3.13E+01	3.40E-04	5.19E-08	1.72E+00	4.44E-02
720	6.92E+01	2.89E+01	2.72E-04	3.85E-08	1.83E+00	3.68E-02
730	7.13E+01	2.67E+01	2.17E-04	2.86E-08	1.94E+00	3.04E-02
740	7.33E+01	2.46E+01	1.73E-04	2.12E-08	2.05E+00	2.51E-02
750	7.52E+01	2.26E+01	1.37E-04	1.56E-08	2.16E+00	2.07E-02
760	7.69E+01	2.08E+01	1.09E-04	1.15E-08	2.27E+00	1.71E-02
770	7.86E+01	1.90E+01	8.64E-05	8.52E-09	2.38E+00	1.40E-02
780	8.01E+01	1.74E+01	6.84E-05	6.27E-09	2.50E+00	1.15E-02
790	8.15E+01	1.59E+01	5.41E-05	4.62E-09	2.61E+00	9.44E-03
800	8.28E+01	1.45E+01	4.27E-05	3.40E-09	2.72E+00	7.74E-03

D-172; LAT-80; LON-45; LT-12; F-150; FAV-150; A_p-3; UTI-9

80	5.43E-04	1.20E-03	2.08E+01	8.96E-01	1.67E-05	7.83E+01
90	6.02E-04	3.05E-01	2.04E+01	8.54E-01	1.12E-04	7.84E+01
100	9.55E-04	3.41E+00	1.84E+01	7.13E-01	1.93E-04	7.75E+01
110	2.41E-03	9.89E+00	1.44E+01	4.88E-01	4.44E-04	7.52E+01
120	6.85E-03	1.71E+01	1.05E+01	3.13E-01	8.06E-04	7.20E+01
130	2.19E-02	2.31E+01	8.23E+00	2.13E-01	1.07E-03	6.84E+01
140	5.01E-02	2.81E+01	6.93E+00	1.52E-01	1.22E-03	6.48E+01
150	8.00E-02	3.25E+01	6.06E+00	1.13E-01	1.33E-03	6.13E+01
160	1.14E-01	3.66E+01	5.36E+00	8.63E-02	1.47E-03	5.78E+01
170	1.56E-01	4.06E+01	4.76E+00	6.72E-02	1.67E-03	5.44E+01
180	2.06E-01	4.45E+01	4.23E+00	5.31E-02	1.96E-03	5.10E+01
190	2.66E-01	4.83E+01	3.75E+00	4.22E-02	2.36E-03	4.76E+01
200	3.38E-01	5.20E+01	3.32E+00	3.37E-02	2.88E-03	4.43E+01
210	4.24E-01	5.55E+01	2.93E+00	2.69E-02	3.55E-03	4.11E+01
220	5.24E-01	5.89E+01	2.58E+00	2.15E-02	4.40E-03	3.79E+01
230	6.42E-01	6.22E+01	2.27E+00	1.72E-02	5.46E-03	3.49E+01
240	7.79E-01	6.53E+01	1.98E+00	1.37E-02	6.76E-03	3.20E+01
250	9.38E-01	6.81E+01	1.73E+00	1.09E-02	8.34E-03	2.92E+01
260	1.12E+00	7.08E+01	1.50E+00	8.67E-03	1.02E-02	2.65E+01
270	1.33E+00	7.33E+01	1.30E+00	6.87E-03	1.25E-02	2.40E+01
280	1.57E+00	7.56E+01	1.13E+00	5.43E-03	1.53E-02	2.17E+01
290	1.85E+00	7.76E+01	9.69E-01	4.28E-03	1.85E-02	1.96E+01
300	2.16E+00	7.94E+01	8.33E-01	3.37E-03	2.24E-02	1.76E+01

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	2.53E+00	8.10E+01	7.16E-01	2.66E-03	2.70E-02	1.58E+01
320	2.93E+00	8.23E+01	6.12E-01	2.08E-03	3.23E-02	1.41E+01
330	3.39E+00	8.35E+01	5.22E-01	1.63E-03	3.86E-02	1.25E+01
340	3.90E+00	8.45E+01	4.44E-01	1.27E-03	4.59E-02	1.11E+01
350	4.48E+00	8.52E+01	3.77E-01	9.90E-04	5.44E-02	9.88E+00
360	5.13E+00	8.57E+01	3.20E-01	7.70E-04	6.43E-02	8.74E+00
370	5.85E+00	8.61E+01	2.71E-01	5.99E-04	7.57E-02	7.72E+00
380	6.66E+00	8.62E+01	2.29E-01	4.65E-04	8.90E-02	6.81E+00
390	7.56E+00	8.62E+01	1.93E-01	3.60E-04	1.04E-01	5.99E+00
400	8.55E+00	8.59E+01	1.62E-01	2.79E-04	1.22E-01	5.26E+00
410	9.66E+00	8.55E+01	1.37E-01	2.15E-04	1.42E-01	4.61E+00
420	1.09E+01	8.48E+01	1.15E-01	1.66E-04	1.65E-01	4.04E+00
430	1.22E+01	8.40E+01	9.60E-02	1.28E-04	1.91E-01	3.53E+00
440	1.37E+01	8.30E+01	8.02E-02	9.84E-05	2.21E-01	3.07E+00
450	1.53E+01	8.17E+01	6.69E-02	7.55E-05	2.54E-01	2.67E+00
460	1.70E+01	8.03E+01	5.57E-02	5.79E-05	2.92E-01	2.32E+00
470	1.88E+01	7.88E+01	4.63E-02	4.43E-05	3.34E-01	2.01E+00
480	2.09E+01	7.70E+01	3.84E-02	3.38E-05	3.81E-01	1.73E+00
490	2.30E+01	7.50E+01	3.17E-02	2.57E-05	4.33E-01	1.49E+00
500	2.53E+01	7.29E+01	2.62E-02	1.96E-05	4.91E-01	1.28E+00
510	2.77E+01	7.07E+01	2.15E-02	1.48E-05	5.55E-01	1.10E+00
520	3.02E+01	6.82E+01	1.77E-02	1.12E-05	6.24E-01	9.41E-01
530	3.28E+01	6.57E+01	1.45E-02	8.46E-06	6.99E-01	8.01E-01
540	3.56E+01	6.30E+01	1.18E-02	6.36E-06	7.81E-01	6.81E-01
550	3.84E+01	6.02E+01	9.59E-03	4.77E-06	8.68E-01	5.76E-01
560	4.12E+01	5.73E+01	7.77E-03	3.57E-06	9.62E-01	4.86E-01
570	4.41E+01	5.44E+01	6.28E-03	2.66E-06	1.06E+00	4.09E-01
580	4.71E+01	5.14E+01	5.06E-03	1.98E-06	1.17E+00	3.43E-01
590	5.00E+01	4.85E+01	4.06E-03	1.47E-06	1.28E+00	2.87E-01
600	5.29E+01	4.55E+01	3.25E-03	1.08E-06	1.39E+00	2.39E-01
610	5.57E+01	4.26E+01	2.60E-03	8.00E-07	1.51E+00	1.98E-01
620	5.85E+01	3.97E+01	2.07E-03	5.88E-07	1.63E+00	1.64E-01
630	6.12E+01	3.69E+01	1.64E-03	4.31E-07	1.76E+00	1.36E-01
640	6.38E+01	3.42E+01	1.30E-03	3.16E-07	1.89E+00	1.12E-01
650	6.63E+01	3.16E+01	1.03E-03	2.30E-07	2.02E+00	9.17E-02
660	6.87E+01	2.91E+01	8.07E-04	1.68E-07	2.16E+00	7.51E-02
670	7.09E+01	2.67E+01	6.34E-04	1.22E-07	2.29E+00	6.14E-02
680	7.30E+01	2.45E+01	4.98E-04	8.84E-08	2.43E+00	5.00E-02
690	7.50E+01	2.24E+01	3.89E-04	6.41E-08	2.57E+00	4.07E-02
700	7.68E+01	2.04E+01	3.04E-04	4.63E-08	2.71E+00	3.31E-02
710	7.85E+01	1.86E+01	2.37E-04	3.35E-08	2.85E+00	2.68E-02
720	8.01E+01	1.69E+01	1.85E-04	2.41E-08	3.00E+00	2.17E-02
730	8.15E+01	1.53E+01	1.44E-04	1.74E-08	3.14E+00	1.76E-02
740	8.28E+01	1.39E+01	1.12E-04	1.25E-08	3.28E+00	1.42E-02
750	8.40E+01	1.25E+01	8.69E-05	9.01E-09	3.42E+00	1.14E-02
760	8.51E+01	1.13E+01	6.74E-05	6.48E-09	3.57E+00	9.22E-03
770	8.60E+01	1.02E+01	5.23E-05	4.66E-09	3.71E+00	7.43E-03
780	8.69E+01	9.23E+00	4.05E-05	3.35E-09	3.86E+00	5.98E-03
790	8.77E+01	8.31E+00	3.14E-05	2.40E-09	4.00E+00	4.81E-03
800	8.84E+01	7.48E+00	2.43E-05	1.73E-09	4.15E+00	3.87E-03

Широтные вариации состава при высокой солнечной активности
для летнего солнцестояния в северном и зимнего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
D—172; LAT—0; LON—45; LT—12; F—200; FAV—200; A _p —3; UT1—9						
80	5.54E—04	1.22E—03	2.07E+01	8.97E—01	1.45E—05	7.84E+01
90	6.17E—04	3.11E—01	2.01E+01	8.61E—01	8.85E—05	7.87E+01
100	9.61E—04	3.48E+00	1.76E+01	7.34E—01	1.28E—04	7.82E+01
110	2.49E—03	1.07E+01	1.23E+01	4.82E—01	2.84E—04	7.65E+01
120	4.79E—03	1.81E+01	7.94E+00	3.23E—01	3.78E—04	7.36E+01
130	7.42E—03	2.34E+01	5.80E+00	2.36E—01	3.71E—04	7.06E+01
140	1.14E—02	2.77E+01	4.80E+00	1.77E—01	3.49E—04	6.73E+01
150	1.69E—02	3.16E+01	4.20E+00	1.35E—01	3.39E—04	6.40E+01
160	2.38E—02	3.54E+01	3.75E+00	1.06E—01	3.46E—04	6.07E+01
170	3.21E—02	3.90E+01	3.37E+00	8.47E—02	3.72E—04	5.75E+01
180	4.19E—02	4.24E+01	3.03E+00	6.88E—02	4.16E—04	5.44E+01
190	5.37E—02	4.58E+01	2.73E+00	5.62E—02	4.85E—04	5.13E+01
200	6.70E—02	4.90E+01	2.47E+00	4.64E—02	5.72E—04	4.84E+01
210	8.21E—02	5.21E+01	2.23E+00	3.85E—02	6.83E—04	4.56E+01
220	9.94E—02	5.50E+01	2.01E+00	3.21E—02	8.19E—04	4.28E+01
230	1.19E—01	5.78E+01	1.82E+00	2.68E—02	9.82E—04	4.02E+01
240	1.41E—01	6.05E+01	1.64E+00	2.24E—02	1.18E—03	3.77E+01
250	1.65E—01	6.31E+01	1.48E+00	1.88E—02	1.40E—03	3.52E+01
260	1.92E—01	6.56E+01	1.33E+00	1.57E—02	1.67E—03	3.29E+01
270	2.23E—01	6.79E+01	1.20E+00	1.32E—02	1.97E—03	3.07E+01
280	2.57E—01	7.01E+01	1.08E+00	1.10E—02	2.33E—03	2.85E+01
290	2.95E—01	7.22E+01	9.66E—01	9.24E—03	2.73E—03	2.65E+01
300	3.36E—01	7.42E+01	8.65E—01	7.73E—03	3.20E—03	2.46E+01
310	3.83E—01	7.60E+01	7.76E—01	6.48E—03	3.74E—03	2.28E+01
320	4.35E—01	7.78E+01	6.93E—01	5.41E—03	4.34E—03	2.11E+01
330	4.91E—01	7.94E+01	6.19E—01	4.51E—03	5.03E—03	1.95E+01
340	5.54E—01	8.10E+01	5.51E—01	3.76E—03	5.82E—03	1.79E+01
350	6.24E—01	8.24E+01	4.91E—01	3.13E—03	6.72E—03	1.65E+01
360	7.01E—01	8.37E+01	4.36E—01	2.60E—03	7.73E—03	1.52E+01
370	7.85E—01	8.49E+01	3.88E—01	2.16E—03	8.89E—03	1.39E+01
380	8.79E—01	8.60E+01	3.44E—01	1.80E—03	1.02E—02	1.28E+01
390	9.81E—01	8.70E+01	3.05E—01	1.49E—03	1.17E—02	1.17E+01
400	1.19E+00	8.82E+01	2.56E—01	1.14E—03	1.46E—02	1.03E+01
410	1.32E+00	8.90E+01	2.27E—01	9.47E—04	1.67E—02	9.43E+00
420	1.47E+00	8.97E+01	2.01E—01	7.85E—04	1.90E—02	8.62E+00
430	1.63E+00	9.03E+01	1.78E—01	6.50E—04	2.16E—02	7.87E+00
440	1.81E+00	9.08E+01	1.57E—01	5.39E—04	2.45E—02	7.19E+00
450	2.00E+00	9.13E+01	1.39E—01	4.46E—04	2.78E—02	6.56E+00
460	2.21E+00	9.17E+01	1.22E—01	3.69E—04	3.15E—02	5.98E+00
470	2.44E+00	9.20E+01	1.08E—01	3.06E—04	3.57E—02	5.45E+00
480	2.70E+00	9.22E+01	9.53E—02	2.53E—04	4.03E—02	4.96E+00
490	2.97E+00	9.24E+01	8.40E—02	2.09E—04	4.55E—02	4.52E+00
500	3.27E+00	9.25E+01	7.41E—02	1.73E—04	5.13E—02	4.11E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	3.60E+00	9.25E-01	6.53E-02	1.43E-04	5.79E-02	3.74E+00
520	3.96E+00	9.25E+01	5.75E-02	1.19E-04	6.51E-02	3.40E+00
530	4.35E+00	9.24E+01	5.07E-02	9.80E-05	7.32E-02	3.09E+00
540	4.77E+00	9.23E+01	4.46E-02	8.11E-05	8.22E-02	2.81E+00
550	5.23E+00	9.21E+01	3.93E-02	6.70E-05	9.23E-02	2.55E+00
560	5.72E+00	9.18E+01	3.46E-02	5.54E-05	1.03E-01	2.32E+00
570	6.26E+00	9.15E+01	3.04E-02	4.58E-05	1.16E-01	2.10E+00
580	6.84E+00	9.11E+01	2.68E-02	3.79E-05	1.30E-01	1.91E+00
590	7.47E+00	9.06E+01	2.35E-02	3.13E-05	1.45E-01	1.73E+00
600	8.15E+00	9.01E+01	2.07E-02	2.59E-05	1.62E-01	1.57E+00
610	8.88E+00	8.95E+01	1.82E-02	2.14E-05	1.80E-01	1.42E+00
620	9.66E+00	8.88E+01	1.59E-02	1.76E-05	2.01E-01	1.29E+00
630	1.05E+01	8.81E+01	1.40E-02	1.46E-05	2.23E-01	1.16E+00
640	1.14E+01	8.73E+01	1.23E-02	1.20E-05	2.48E-01	1.05E+00
650	1.24E+01	8.64E+01	1.07E-02	9.90E-06	2.75E-01	9.51E-01
660	1.34E+01	8.54E+01	9.41E-03	8.16E-06	3.05E-01	8.58E-01
670	1.45E+01	8.44E+01	8.24E-03	6.73E-06	3.37E-01	7.74E-01
680	1.56E+01	8.33E+01	7.21E-03	5.54E-06	3.72E-01	6.98E-01
690	1.69E+01	8.21E+01	6.30E-03	4.56E-06	4.11E-01	6.29E-01
700	1.82E+01	8.08E+01	5.50E-03	3.75E-06	4.53E-01	5.66E-01
710	1.95E+01	7.94E+01	4.80E-03	3.08E-06	4.98E-01	5.08E-01
720	2.10E+01	7.80E+01	4.18E-03	2.53E-06	5.47E-01	4.56E-01
730	2.25E+01	7.65E+01	3.64E-03	2.07E-06	5.99E-01	4.09E-01
740	2.41E+01	7.49E+01	3.17E-03	1.70E-06	6.56E-01	3.67E-01
750	2.57E+01	7.32E+01	2.75E-03	1.39E-06	7.16E-01	3.28E-01
760	2.74E+01	7.15E+01	2.39E-03	1.14E-06	7.81E-01	2.93E-01
770	2.92E+01	6.97E+01	2.07E-03	9.30E-07	8.50E-01	2.62E-01
780	3.10E+01	6.78E+01	1.79E-03	7.59E-07	9.23E-01	2.33E-01
790	3.29E+01	6.59E+01	1.55E-03	6.19E-07	1.00E+00	2.08E-01
800	3.48E+01	6.39E+01	1.33E-03	5.04E-07	1.08E+00	1.84E-01

D-172; LAT-40; LON-45; LT-12; F-200; FAV-200, A_p-3; UT1-9

80	5.41E-04	1.21E-03	2.07E+01	8.95E-01	1.37E-05	7.84E-01
90	6.08E-04	3.07E-01	2.00E+01	8.54E-01	8.49E-05	7.88E+01
100	9.63E-04	3.46E+00	1.73E+01	7.21E-01	1.31E-04	7.86E-01
110	2.28E-03	1.04E+01	1.19E+01	4.88E-01	2.65E-04	7.73E+01
120	4.48E-03	1.81E+01	7.20E+00	3.14E-01	3.90E-04	7.44E+01
130	5.74E-03	2.31E+01	5.13E+00	2.29E-01	3.73E-04	7.15E+01
140	7.80E-03	2.72E+01	4.21E+00	1.72E-01	3.46E-04	6.84E+01
150	1.12E-02	3.09E+01	3.69E+00	1.32E-01	3.31E-04	6.53E+01
160	1.55E-02	3.44E+01	3.31E+00	1.04E-01	3.34E-04	6.21E+01
170	2.07E-02	3.78E+01	2.99E+00	8.40E-02	3.55E-04	5.91E+01
180	2.68E-02	4.10E+01	2.72E+00	6.88E-02	3.93E-04	5.62E+01
190	3.41E-02	4.42E+01	2.46E+00	5.67E-02	4.54E-04	5.33E+01
200	4.24E-02	4.72E+01	2.24E+00	4.72E-02	5.33E-04	5.05E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	5.17E-02	5.01E+01	2.04E+00	3.95E-02	6.33E-04	4.77E+01
220	6.24E-02	5.30E+01	1.85E+00	3.32E-02	7.55E-04	4.51E+01
230	7.44E-02	5.57E+01	1.68E+00	2.80E-02	9.02E-04	4.25E+01
240	8.79E-02	5.83E+01	1.52E+00	2.36E-02	1.08E-03	4.00E+01
250	1.03E-01	6.09E+01	1.38E+00	2.00E-02	1.28E-03	3.76E+01
260	1.20E-01	6.33E+01	1.25E+00	1.69E-02	1.52E-03	3.53E+01
270	1.39E-01	6.57E+01	1.13E+00	1.42E-02	1.79E-03	3.31E+01
280	1.59E-01	6.79E+01	1.02E+00	1.20E-02	2.11E-03	3.09E+01
290	1.83E-01	7.00E+01	9.24E-01	1.01E-02	2.47E-03	2.88E+01
300	2.08E-01	7.21E+01	8.33E-01	8.55E-03	2.89E-03	2.69E+01
310	2.37E-01	7.39E+01	7.52E-01	7.23E-03	3.37E-03	2.51E+01
320	2.68E-01	7.58E+01	6.76E-01	6.08E-03	3.91E-03	2.33E+01
330	3.03E-01	7.75E+01	6.06E-01	5.11E-03	4.52E-03	2.16E+01
340	3.41E-01	7.91E+01	5.44E-01	4.29E-03	5.22E-03	2.00E+01
350	3.84E-01	8.06E+01	4.87E-01	3.60E-03	6.01E-03	1.85E+01
360	4.30E-01	8.20E+01	4.35E-01	3.02E-03	6.90E-03	1.71E+01
370	4.82E-01	8.34E+01	3.89E-01	2.53E-03	7.91E-03	1.58E+01
380	5.38E-01	8.46E+01	3.47E-01	2.12E-03	9.06E-03	1.45E+01
390	6.00E-01	8.57E+01	3.10E-01	1.77E-03	1.03E-02	1.34E+01
400	6.74E-01	8.68E+01	2.75E-01	1.47E-03	1.19E-02	1.23E+01
410	7.49E-01	8.77E+01	2.45E-01	1.23E-03	1.35E-02	1.13E+01
420	8.31E-01	8.86E+01	2.18E-01	1.03E-03	1.54E-02	1.04E+01
430	9.22E-01	8.94E+01	1.94E-01	8.60E-04	1.75E-02	9.51E+00
440	1.02E+00	9.01E+01	1.72E-01	7.18E-04	1.98E-02	8.73E+00
450	1.13E+00	9.07E+01	1.53E-01	5.99E-04	2.24E-02	8.00E+00
460	1.25E+00	9.13E+01	1.36E-01	5.00E-04	2.54E-02	7.33E+00
470	1.38E+00	9.18E+01	1.21E-01	4.18E-04	2.87E-02	6.72E+00
480	1.52E+00	9.22E+01	1.07E-01	3.48E-04	3.23E-02	6.15E+00
490	1.67E+00	9.26E+01	9.52E-02	2.91E-04	3.65E-02	5.63E+00
500	1.84E+00	9.29E+01	8.44E-02	2.43E-04	4.11E-02	5.15E+00
510	2.02E+00	9.31E+01	7.49E-02	2.02E-04	4.62E-02	4.71E+00
520	2.22E+00	9.34E+01	6.64E-02	1.69E-04	5.19E-02	4.31E+00
530	2.44E+00	9.35E+01	5.89E-02	1.41E-04	5.83E-02	3.94E+00
540	2.67E+00	9.36E+01	5.22E-02	1.17E-04	6.54E-02	3.60E+00
550	2.93E+00	9.37E+01	4.63E-02	9.80E-05	7.34E-02	3.29E+00
560	3.21E+00	9.37E+01	4.10E-02	8.17E-05	8.22E-02	3.00E+00
570	3.51E+00	9.36E+01	3.63E-02	6.82E-05	9.19E-02	2.74E+00
580	3.84E+00	9.35E+01	3.22E-02	5.69E-05	1.03E-01	2.50E+00
590	4.19E+00	9.34E+01	2.85E-02	4.74E-05	1.15E-01	2.28E+00
600	4.58E+00	9.32E+01	2.52E-02	3.96E-05	1.28E-01	2.08E+00
610	4.99E+00	9.29E+01	2.23E-02	3.30E-05	1.43E-01	1.90E+00
620	5.44E+00	9.26E+01	1.98E-02	2.75E-05	1.59E-01	1.73E+00
630	5.92E+00	9.23E+01	1.75E-02	2.30E-05	1.77E-01	1.58E+00
640	6.45E+00	9.19E+01	1.55E-02	1.91E-05	1.97E-01	1.44E+00
650	7.01E+00	9.14E+01	1.37E-02	1.60E-05	2.19E-01	1.31E+00
660	7.61E+00	9.09E+01	1.21E-02	1.33E-05	2.43E-01	1.19E+00
670	8.26E+00	9.04E+01	1.07E-02	1.11E-05	2.70E-01	1.09E+00
680	8.95E+00	8.98E+01	9.46E-03	9.25E-06	2.99E-01	9.89E-01
690	9.69E+00	8.91E+01	8.35E-03	7.70E-06	3.31E-01	8.99E-01
700	1.05E+01	8.83E+01	7.37E-03	6.42E-06	3.66E-01	8.17E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H.S, %	N ₂ /S, %
710	1.13E+01	8.75E+01	6.51E-03	5.35E-06	4.05E-01	7.42E-01
720	1.22E+01	8.66E+01	5.74E-03	4.45E-06	4.46E-01	6.74E-01
730	1.32E+01	8.57E+01	5.06E-03	3.70E-06	4.92E-01	6.11E-01
740	1.42E+01	8.47E+01	4.46E-03	3.08E-06	5.41E-01	5.54E-01
750	1.53E+01	8.36E+01	3.92E-03	2.56E-06	5.95E-01	5.02E-01
760	1.64E+01	8.25E+01	3.45E-03	2.13E-06	6.53E-01	4.55E-01
770	1.76E+01	8.12E+01	3.04E-03	1.77E-06	7.16E-01	4.11E-01
780	1.89E+01	8.00E+01	2.67E-03	1.47E-06	7.84E-01	3.72E-01
790	2.02E+01	7.86E+01	2.34E-03	1.22E-06	8.57E-01	3.36E-01
800	2.16E+01	7.72E+01	2.05E-03	1.01E-06	9.35E-01	3.03E-01

D-172, LAT-80; LON-45; LT-12; F-200, FΔV-200; A_p-3; UT1-9

80	5.37E-04	1.08E-03	2.07E+01	9.39E-01	1.18E-05	7.83E+01
90	5.91E-04	2.71E-01	2.01E+01	9.26E-01	6.87E-05	7.87E+01
100	9.62E-04	3.04E+00	1.76E+01	8.15E-01	1.09E-04	7.86E+01
110	2.37E-03	8.85E+00	1.26E+01	6.05E-01	2.12E-04	7.79E+01
120	4.88E-03	1.54E+01	8.10E+00	1.24E-01	3.17E-04	7.60E+01
130	4.95E-03	2.03E+01	5.87E+00	3.22E-01	3.31E-04	7.35E+01
140	5.12E-03	2.39E+01	4.91E+00	2.59E-01	2.88E-04	7.09E+01
150	6.81E-03	2.68E+01	4.39E+00	2.15E-01	2.47E-04	6.85E+01
160	9.16E-03	2.95E+01	4.02E+00	1.81E-01	2.22E-04	6.63E+01
170	1.20E-02	3.20E+01	3.72E+00	1.54E-01	2.14E-04	6.41E+01
180	1.52E-02	3.44E+01	3.45E+00	1.32E-01	2.20E-04	6.20E+01
190	1.89E-02	3.67E+01	3.20E+00	1.13E-01	2.39E-04	5.99E+01
200	2.32E-02	3.91E+01	2.98E+00	9.79E-02	2.68E-04	5.78E+01
210	2.81E-02	4.14E+01	2.77E+00	8.47E-02	3.09E-04	5.57E+01
220	3.37E-02	4.38E+01	2.57E+00	7.33E-02	3.61E-04	5.35E+01
230	4.01E-02	4.61E+01	2.38E+00	6.34E-02	4.26E-04	5.14E+01
240	4.73E-02	4.85E+01	2.20E+00	5.49E-02	5.04E-04	4.92E+01
250	5.54E-02	5.08E+01	2.04E+00	4.76E-02	5.97E-04	4.70E+01
260	6.46E-02	5.32E+01	1.88E+00	4.11E-02	7.07E-04	4.48E+01
270	7.50E-02	5.55E+01	1.73E+00	3.55E-02	8.35E-04	4.27E+01
280	8.65E-02	5.78E+01	1.59E+00	3.06E-02	9.83E-04	4.05E+01
290	9.95E-02	6.00E+01	1.46E+00	2.63E-02	1.15E-03	3.84E+01
300	1.14E-01	6.22E+01	1.34E+00	2.27E-02	1.35E-03	3.63E+01
310	1.31E-01	6.41E+01	1.24E+00	1.96E-02	1.59E-03	3.43E+01
320	1.49E-01	6.62E+01	1.13E+00	1.68E-02	1.85E-03	3.25E+01
330	1.69E-01	6.83E+01	1.03E+00	1.44E-02	2.14E-03	3.05E+01
340	1.91E-01	7.02E+01	9.32E-01	1.23E-02	2.47E-03	2.86E+01
350	2.15E-01	7.21E+01	8.47E-01	1.05E-02	2.85E-03	2.68E+01
360	2.41E-01	7.39E+01	7.68E-01	8.95E-03	3.28E-03	2.51E+01
370	2.71E-01	7.56E+01	6.95E-01	7.63E-03	3.76E-03	2.34E+01
380	3.03E-01	7.72E+01	6.29E-01	6.49E-03	4.31E-03	2.18E+01
390	3.38E-01	7.88E+01	5.68E-01	5.52E-03	4.92E-03	2.03E+01
400	3.77E-01	8.02E+01	5.13E-01	4.69E-03	5.62E-03	1.89E+01

z, км	He/S, %	O/S, %	O _{II} /S, %	Ar/S, %	N/S, %	N ₂ /S, %
410	4.20E-01	8.16E+01	4.62E-01	3.98E-03	6.39E-03	1.76E+01
420	4.67E-01	8.28E+01	4.16E-01	3.38E-03	7.27E-03	1.63E+01
430	5.18E-01	8.40E+01	3.75E-01	2.86E-03	8.24E-03	1.51E+01
440	5.73E-01	8.51E+01	3.37E-01	2.43E-03	9.34E-03	1.40E+01
450	6.34E-01	8.61E+01	3.03E-01	2.05E-03	1.06E-02	1.30E+01
460	7.01E-01	8.70E+01	2.72E-01	1.74E-03	1.19E-02	1.20E+01
470	7.73E-01	8.79E+01	2.44E-01	1.47E-03	1.35E-02	1.11E+01
480	8.52E-01	8.87E+01	2.19E-01	1.24E-03	1.52E-02	1.02E+01
490	9.38E-01	8.94E+01	1.96E-01	1.05E-03	1.71E-02	9.45E+00
500	1.03E+00	9.01E+01	1.76E-01	8.89E-04	1.92E-02	8.72E+00
510	1.13E+00	9.06E+01	1.58E-01	7.52E-04	2.15E-02	8.04E+00
520	1.24E+00	9.12E+01	1.41E-01	6.35E-04	2.42E-02	7.41E+00
530	1.36E+00	9.17E+01	1.26E-01	5.37E-04	2.71E-02	6.83E+00
540	1.49E+00	9.21E+01	1.13E-01	4.53E-04	3.03E-02	6.29E+00
550	1.64E+00	9.24E+01	1.01E-01	3.83E-04	3.39E-02	5.80E+00
560	1.79E+00	9.27E+01	9.05E-02	3.23E-04	3.79E-02	5.34E+00
570	1.95E+00	9.30E+01	8.09E-02	2.73E-04	4.23E-02	4.91E+00
580	2.13E+00	9.32E+01	7.23E-02	2.31E-04	4.72E-02	4.52E+00
590	2.33E+00	9.34E+01	6.47E-02	1.95E-04	5.26E-02	4.16E+00
600	2.54E+00	9.35E+01	5.78E-02	1.64E-04	5.86E-02	3.82E+00
610	2.77E+00	9.36E+01	5.17E-02	1.39E-04	6.52E-02	3.51E+00
620	3.01E+00	9.36E+01	4.62E-02	1.17E-04	7.25E-02	3.23E+00
630	3.28E+00	9.36E+01	4.13E-02	9.91E-05	8.06E-02	2.97E+00
640	3.56E+00	9.36E+01	3.69E-02	8.37E-05	8.94E-02	2.73E+00
650	3.87E+00	9.35E+01	3.29E-02	7.07E-05	9.92E-02	2.50E+00
660	4.20E+00	9.34E+01	2.94E-02	5.97E-05	1.10E-01	2.30E+00
670	4.56E+00	9.32E+01	2.63E-02	5.04E-05	1.22E-01	2.11E+00
680	4.94E+00	9.30E+01	2.34E-02	4.26E-05	1.35E-01	1.94E+00
690	5.36E+00	9.27E+01	2.09E-02	3.60E-05	1.49E-01	1.78E+00
700	5.80E+00	9.24E+01	1.87E-02	3.04E-05	1.65E-01	1.63E+00
710	6.27E+00	9.20E+01	1.67E-02	2.57E-05	1.82E-01	1.50E+00
720	6.78E+00	9.16E+01	1.49E-02	2.17E-05	2.01E-01	1.37E+00
730	7.33E+00	9.12E+01	1.33E-02	1.83E-05	2.22E-01	1.26E+00
740	7.91E+00	9.07E+01	1.18E-02	1.55E-05	2.44E-01	1.15E+00
750	8.53E+00	9.01E+01	1.05E-02	1.31E-05	2.69E-01	1.06E+00
760	9.19E+00	8.95E+01	9.40E-03	1.10E-05	2.96E-01	9.68E-01
770	9.89E+00	8.89E+01	8.37E-03	9.30E-06	3.25E-01	8.86E-01
780	1.06E+01	8.82E+01	7.46E-03	7.85E-06	3.56E-01	8.10E-01
790	1.14E+01	8.74E+01	6.64E-03	6.62E-06	3.91E-01	7.41E-01
800	1.23E+01	8.66E+01	5.91E-03	5.58E-06	4.28E-01	6.78E-01

D—172; LAT—40; LON—45; LT—12; F—200; FAV—200; A_p—3; UTI—9

80	5.44E-04	1.35E-03	2.08E+01	8.73E-01	1.43E-05	7.83E+01
90	6.10E-04	3.49E-01	2.02E+01	8.19E-01	8.94E-05	7.86E+01
100	9.56E-04	3.95E+00	1.77E+01	6.70E-01	1.35E-04	7.76E+01

Продолжение табл. 9

z, км	H ₀ /S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.31E-03	1.18E+01	1.28E+01	4.30E-01	2.74E-04	7.50E+01
120	4.76E-03	1.95E+01	8.61E+00	2.82E-01	3.43E-04	7.16E+01
130	1.21E-02	2.57E+01	6.35E+00	1.90E-01	3.56E-04	6.78E+01
140	2.50E-02	3.07E+01	5.24E+00	1.34E-01	3.40E-04	6.39E+01
150	3.88E-02	3.54E+01	4.53E+00	9.69E-02	3.34E-04	6.00E+01
160	5.54E-02	4.00E+01	3.96E+00	7.20E-02	3.48E-04	5.59E+01
170	7.61E-02	4.45E+01	3.47E+00	5.46E-02	3.84E-04	5.19E+01
180	1.01E-01	4.88E+01	3.03E+00	4.21E-02	4.43E-04	4.80E+01
190	1.32E-01	5.30E+01	2.65E+00	3.28E-02	5.30E-04	4.42E+01
200	1.68E-01	5.69E+01	2.32E+00	2.58E-02	6.40E-04	4.06E+01
210	2.09E-01	6.04E+01	2.03E+00	2.05E-02	7.80E-04	3.73E+01
220	2.56E-01	6.38E+01	1.78E+00	1.64E-02	9.50E-04	3.42E+01
230	3.09E-01	6.68E+01	1.56E+00	1.31E-02	1.16E-03	3.13E+01
240	3.68E-01	6.96E+01	1.37E+00	1.06E-02	1.40E-03	2.86E+01
250	4.34E-01	7.22E+01	1.20E+00	8.54E-03	1.68E-03	2.61E+01
260	5.07E-01	7.46E+01	1.05E+00	6.92E-03	2.01E-03	2.39E+01
270	5.88E-01	7.67E+01	9.23E-01	5.61E-03	2.39E-03	2.18E+01
280	6.78E-01	7.86E+01	8.10E-01	4.56E-03	2.83E-03	1.99E+01
290	7.76E-01	8.04E+01	7.11E-01	3.72E-03	3.33E-03	1.81E+01
300	8.84E-01	8.20E+01	6.25E-01	3.03E-03	3.89E-03	1.65E+01
310	9.99E-01	8.35E+01	5.46E-01	2.46E-03	4.51E-03	1.50E+01
320	1.13E+00	8.48E+01	4.79E-01	2.01E-03	5.26E-03	1.36E+01
330	1.28E+00	8.59E+01	4.20E-01	1.64E-03	6.10E-03	1.24E+01
340	1.45E+00	8.69E+01	3.68E-01	1.34E-03	7.07E-03	1.13E+01
350	1.63E+00	8.78E+01	3.22E-01	1.09E-03	8.18E-03	1.02E+01
360	1.83E+00	8.86E+01	2.82E-01	8.85E-04	9.45E-03	9.25E+00
370	2.05E+00	8.93E+01	2.46E-01	7.20E-04	1.09E-02	8.37E+00
380	2.30E+00	8.99E+01	2.15E-01	5.85E-04	1.25E-02	7.58E+00
390	2.57E+00	9.04E+01	1.87E-01	4.76E-04	1.44E-02	6.85E+00
400	2.85E+00	9.08E+01	1.64E-01	3.89E-04	1.64E-02	6.21E+00
410	3.18E+00	9.11E+01	1.43E-01	3.16E-04	1.88E-02	5.60E+00
420	3.54E+00	9.13E+01	1.25E-01	2.57E-04	2.14E-02	5.05E+00
430	3.94E+00	9.14E+01	1.08E-01	2.08E-04	2.45E-02	4.56E+00
440	4.38E+00	9.14E+01	9.44E-02	1.69E-04	2.79E-02	4.11E+00
450	4.86E+00	9.13E+01	8.21E-02	1.37E-04	3.18E-02	3.70E+00
460	5.38E+00	9.12E+01	7.13E-02	1.11E-04	3.61E-02	3.33E+00
470	5.95E+00	9.10E+01	6.20E-02	9.02E-05	4.10E-02	2.99E+00
480	6.58E+00	9.06E+01	5.38E-02	7.31E-05	4.65E-02	2.69E+00
490	7.26E+00	9.02E+01	4.67E-02	5.92E-05	5.27E-02	2.41E+00
500	8.00E+00	8.97E+01	4.05E-02	4.80E-05	5.96E-02	2.17E+00
510	8.80E+00	8.92E+01	3.51E-02	3.88E-05	6.73E-02	1.94E+00
520	9.68E+00	8.85E+01	3.04E-02	3.14E-05	7.58E-02	1.74E+00
530	1.06E+01	8.77E+01	2.63E-02	2.54E-05	8.54E-02	1.56E+00
540	1.16E+01	8.68E+01	2.28E-02	2.06E-05	9.60E-02	1.40E+00
550	1.27E+01	8.59E+01	1.97E-02	1.66E-05	1.08E-01	1.25E+00
560	1.39E+01	8.48E+01	1.70E-02	1.34E-05	1.21E-01	1.11E+00
570	1.52E+01	8.37E+01	1.46E-02	1.08E-05	1.35E-01	9.93E-01
580	1.65E+01	8.24E+01	1.26E-02	8.71E-06	1.51E-01	8.85E-01
590	1.80E+01	8.11E+01	1.09E-02	7.02E-06	1.68E-01	7.88E-01
600	1.95E+01	7.96E+01	9.34E-03	5.65E-06	1.87E-01	7.00E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	2.11E+01	7.81E+01	8.02E-03	4.54E-06	2.07E-01	6.21E-01
620	2.28E+01	7.54E+01	6.88E-03	3.64E-06	2.30E-01	5.51E-01
630	2.46E+01	7.46E+01	5.89E-03	2.92E-06	2.54E-01	4.88E-01
640	2.65E+01	7.28E+01	5.04E-03	2.34E-06	2.80E-01	4.31E-01
650	2.84E+01	7.09E+01	4.30E-03	1.87E-06	3.08E-01	3.80E-01
660	3.05E+01	6.89E+01	3.67E-03	1.49E-06	3.39E-01	3.35E-01
670	3.26E+01	6.68E+01	3.12E-03	1.19E-06	3.71E-01	2.94E-01
680	3.47E+01	6.46E+01	2.65E-03	9.49E-07	4.06E-01	2.58E-01
690	3.70E+01	6.24E+01	2.25E-03	7.54E-07	4.42E-01	2.26E-01
700	3.92E+01	6.01E+01	1.91E-03	5.99E-07	4.81E-01	1.98E-01
710	4.15E+01	5.78E+01	1.61E-03	4.74E-07	5.22E-01	1.73E-01
720	4.39E+01	5.54E+01	1.36E-03	3.75E-07	5.64E-01	1.51E-01
730	4.62E+01	5.30E+01	1.14E-03	2.96E-07	6.09E-01	1.31E-01
740	4.86E+01	5.06E+01	9.61E-04	2.34E-07	6.56E-01	1.14E-01
750	5.09E+01	4.83E+01	8.07E-04	1.84E-07	7.04E-01	9.84E-02
760	5.33E+01	4.59E+01	6.75E-04	1.45E-07	7.54E-01	8.51E-02
770	5.56E+01	4.35E+01	5.65E-04	1.13E-07	8.05E-01	7.34E-02
780	5.79E+01	4.12E+01	4.71E-04	8.89E-08	8.58E-01	6.32E-02
790	6.01E+01	3.89E+01	3.93E-04	6.95E-08	9.13E-01	5.43E-02
800	6.23E+01	3.67E+01	3.27E-04	5.43E-08	9.68E-01	4.66E-02

D-172; LAT-80; LON-45; LT-12; F-200; FAV-200; A_p-3; UTI-9

80	5.44E-04	1.25E-03	2.08E+01	8.94E-01	1.52E-05	7.83E+01
90	6.03E-04	3.18E-01	2.03E+01	8.52E-01	9.76E-05	7.85E+01
100	9.55E-04	3.57E+00	1.82E+01	7.11E-01	1.60E-04	7.75E+01
110	2.42E-03	1.04E+01	1.39E+01	4.84E-01	3.49E-04	7.52E+01
120	6.65E-03	1.81E+01	9.86E+00	3.10E-01	5.89E-04	7.18E+01
130	1.86E-02	2.41E+01	7.56E+00	2.12E-01	7.11E-04	6.81E+01
140	3.83E-02	2.90E+01	6.35E+00	1.53E-01	7.35E-04	6.44E+01
150	5.87E-02	3.33E+01	5.57E+00	1.15E-01	7.34E-04	6.10E+01
160	8.17E-02	3.72E+01	4.96E+00	8.95E-02	7.52E-04	5.76E+01
170	1.09E-01	4.10E+01	4.43E+00	7.09E-02	8.03E-04	5.44E+01
180	1.40E-01	4.47E+01	3.97E+00	5.70E-02	8.94E-04	5.12E+01
190	1.77E-01	4.82E+01	3.56E+00	4.62E-02	1.03E-03	4.80E+01
200	2.21E-01	5.16E+01	3.18E+00	3.76E-02	1.21E-03	4.50E+01
210	2.71E-01	5.49E+01	2.84E+00	3.07E-02	1.45E-03	4.20E+01
220	3.29E-01	5.81E+01	2.54E+00	2.51E-02	1.75E-03	3.90E+01
230	3.95E-01	6.11E+01	2.25E+00	2.05E-02	2.11E-03	3.62E+01
240	4.72E-01	6.40E+01	2.00E+00	1.67E-02	2.56E-03	3.35E+01
250	5.59E-01	6.67E+01	1.77E+00	1.36E-02	3.09E-03	3.09E+01
260	6.58E-01	6.93E+01	1.56E+00	1.11E-02	3.72E-03	2.84E+01
270	7.70E-01	7.18E+01	1.38E+00	9.02E-03	4.47E-03	2.61E+01
280	8.98E-01	7.40E+01	1.21E+00	7.32E-03	5.35E-03	2.39E+01
290	1.04E+00	7.61E+01	1.06E+00	5.93E-03	6.38E-03	2.18E+01
300	1.20E+00	7.80E+01	9.31E-01	4.80E-03	7.59E-03	1.99E+01

z, мм	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	1.39E+00	7.97E+01	8.14E-01	3.88E-03	8.99E-03	1.81E+01
320	1.59E+00	8.13E+01	7.10E-01	3.13E-03	1.06E-02	1.64E+01
330	1.82E+00	8.27E+01	6.18E-01	2.52E-03	1.25E-02	1.48E+01
340	2.08E+00	8.40E+01	5.38E-01	2.03E-03	1.47E-02	1.34E+01
350	2.36E+00	8.51E+01	4.67E-01	1.63E-03	1.72E-02	1.21E+01
360	2.68E+00	8.60E+01	4.05E-01	1.31E-03	2.01E-02	1.09E+01
370	3.04E+00	8.68E+01	3.50E-01	1.05E-03	2.34E-02	9.80E+00
380	3.43E+00	8.74E+01	3.03E-01	8.42E-04	2.72E-02	8.80E+00
390	3.87E+00	8.79E+01	2.62E-01	6.74E-04	3.15E-02	7.90E+00
400	4.35E+00	8.83E+01	2.26E-01	5.39E-04	3.65E-02	7.08E+00
410	4.89E+00	8.85E+01	1.95E-01	4.31E-04	4.22E-02	6.34E+00
420	5.48E+00	8.86E+01	1.68E-01	3.44E-04	4.87E-02	5.67E+00
430	6.13E+00	8.86E+01	1.44E-01	2.75E-04	5.60E-02	5.06E+00
440	6.84E+00	8.85E+01	1.24E-01	2.19E-04	6.43E-02	4.52E+00
450	7.63E+00	8.82E+01	1.06E-01	1.74E-04	7.37E-02	4.02E+00
460	8.49E+00	8.77E+01	9.13E-02	1.39E-04	8.44E-02	3.58E+00
470	9.43E+00	8.72E+01	7.82E-02	1.10E-04	9.64E-02	3.19E+00
480	1.05E+01	8.65E+01	6.69E-02	8.78E-05	1.10E-01	2.83E+00
490	1.16E+01	8.57E+01	5.72E-02	6.97E-05	1.25E-01	2.51E+00
500	1.28E+01	8.48E+01	4.89E-02	5.53E-05	1.42E-01	2.22E+00
510	1.41E+01	8.37E+01	4.17E-02	4.38E-05	1.61E-01	1.97E+00
520	1.55E+01	8.25E+01	3.55E-02	3.47E-05	1.82E-01	1.74E+00
530	1.70E+01	8.12E+01	3.02E-02	2.74E-05	2.05E-01	1.53E+00
540	1.86E+01	7.98E+01	2.56E-02	2.17E-05	2.31E-01	1.35E+00
550	2.04E+01	7.82E+01	2.17E-02	1.71E-05	2.59E-01	1.19E+00
560	2.22E+01	7.65E+01	1.84E-02	1.35E-05	2.90E-01	1.04E+00
570	2.41E+01	7.46E+01	1.55E-02	1.06E-05	3.24E-01	9.12E-01
580	2.62E+01	7.27E+01	1.31E-02	8.31E-06	3.61E-01	7.97E-01
590	2.83E+01	7.06E+01	1.10E-02	6.51E-06	4.01E-01	6.96E-01
600	3.05E+01	6.84E+01	9.27E-03	5.09E-06	4.45E-01	6.06E-01
610	3.28E+01	6.61E+01	7.77E-03	3.98E-06	4.91E-01	5.26E-01
620	3.52E+01	6.38E+01	6.50E-03	3.10E-06	5.41E-01	4.56E-01
630	3.77E+01	6.13E+01	5.43E-03	2.41E-06	5.94E-01	3.95E-01
640	4.02E+01	5.88E+01	4.52E-03	1.87E-06	6.51E-01	3.40E-01
650	4.27E+01	5.63E+01	3.76E-03	1.45E-06	7.10E-01	2.93E-01
660	4.53E+01	5.37E+01	3.12E-03	1.12E-06	7.73E-01	2.52E-01
670	4.79E+01	5.11E+01	2.58E-03	8.64E-07	8.39E-01	2.16E-01
680	5.04E+01	4.85E+01	2.13E-03	6.65E-07	9.07E-01	1.84E-01
690	5.30E+01	4.59E+01	1.75E-03	5.11E-07	9.78E-01	1.57E-01
700	5.55E+01	4.33E+01	1.44E-03	3.91E-07	1.05E+00	1.34E-01
710	5.80E+01	4.08E+01	1.18E-03	2.99E-07	1.13E+00	1.13E-01
720	6.04E+01	3.83E+01	9.65E-04	2.29E-07	1.21E+00	9.61E-02
730	6.27E+01	3.59E+01	7.88E-04	1.74E-07	1.29E+00	8.12E-02
740	6.50E+01	3.36E+01	6.42E-04	1.33E-07	1.37E+00	6.85E-02
750	6.72E+01	3.13E+01	5.23E-04	1.01E-07	1.45E+00	5.76E-02
760	6.93E+01	2.91E+01	4.24E-04	7.64E-08	1.53E+00	4.84E-02
770	7.13E+01	2.71E+01	3.44E-04	5.79E-08	1.62E+00	4.06E-02
780	7.32E+01	2.51E+01	2.79E-04	4.38E-08	1.70E+00	3.40E-02
790	7.50E+01	2.32E+01	2.25E-04	3.31E-08	1.79E+00	2.85E-02
800	7.66E+01	2.15E+01	1.82E-04	2.50E-08	1.88E+00	2.38E-02

Широтные вариации состава при низкой солнечной активности для осеннего
равноденствия в северном и весеннего в южном полушариях

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
$D=266$; LAT=0; LON=45; LT=12; $F_{10.7}=70$; $F\Delta V=70$; $A_p=3$; UT1-9						
80	5.52E-04	1.20E-03	2.08E+01	9.02E-01	1.83E-05	7.83E+01
90	6.14E-04	3.05E-01	2.03E+01	8.65E-01	1.24E-04	7.85E+01
100	9.55E-04	3.39E+00	1.82E+01	7.36E-01	2.07E-04	7.76E+01
110	2.52E-03	1.03E+01	1.37E+01	4.85E-01	5.33E-04	7.54E+01
120	7.36E-03	1.88E+01	9.42E+00	2.95E-01	1.22E-03	7.15E+01
130	1.48E-02	2.55E+01	7.07E+00	1.98E-01	1.70E-03	6.72E+01
140	2.50E-02	3.11E+01	5.80E+00	1.39E-01	2.03E-03	6.29E+01
150	3.82E-02	3.62E+01	4.95E+00	1.00E-01	2.34E-03	5.87E+01
160	5.52E-02	4.11E+01	4.27E+00	7.43E-02	2.72E-03	5.45E+01
170	7.69E-02	4.59E+01	3.69E+00	5.56E-02	3.26E-03	5.03E+01
180	1.04E-01	5.06E+01	3.18E+00	4.19E-02	4.00E-03	4.61E+01
190	1.39E-01	5.51E+01	2.72E+00	3.16E-02	5.03E-03	4.20E+01
200	1.81E-01	5.95E+01	2.32E+00	2.38E-02	6.42E-03	3.80E+01
210	2.33E-01	6.36E+01	1.97E+00	1.79E-02	8.25E-03	3.42E+01
220	2.97E-01	6.75E+01	1.66E+00	1.34E-02	1.07E-02	3.05E+01
230	3.74E-01	7.11E+01	1.39E+00	9.98E-03	1.37E-02	2.71E+01
240	4.68E-01	7.44E+01	1.16E+00	7.41E-03	1.77E-02	2.39E+01
250	5.80E-01	7.74E+01	9.59E-01	5.48E-03	2.27E-02	2.10E+01
260	7.14E-01	8.01E+01	7.91E-01	4.03E-03	2.90E-02	1.84E+01
270	8.73E-01	8.25E+01	6.50E-01	2.96E-03	3.69E-02	1.60E+01
280	1.06E+00	8.45E+01	5.32E-01	2.16E-03	4.67E-02	1.38E+01
290	1.29E+00	8.63E+01	4.34E-01	1.58E-03	5.88E-02	1.19E+01
300	1.55E+00	8.78E+01	3.53E-01	1.15E-03	7.38E-02	1.03E+01
310	1.87E+00	8.89E+01	2.88E-01	8.35E-04	9.27E-02	8.84E+00
320	2.23E+00	8.99E+01	2.33E-01	6.04E-04	1.15E-01	7.56E+00
330	2.65E+00	9.06E+01	1.88E-01	4.36E-04	1.43E-01	6.45E+00
340	3.15E+00	9.10E+01	1.51E-01	3.15E-04	1.77E-01	5.49E+00
350	3.73E+00	9.13E+01	1.22E-01	2.27E-04	2.18E-01	4.67E+00
360	4.40E+00	9.13E+01	9.76E-02	1.63E-04	2.68E-01	3.96E+00
370	5.17E+00	9.11E+01	7.82E-02	1.17E-04	3.29E-01	3.35E+00
380	6.06E+00	9.06E+01	6.25E-02	8.38E-05	4.02E-01	2.83E+00
390	7.09E+00	9.00E+01	4.99E-02	6.00E-05	4.89E-01	2.38E+00
400	8.26E+00	8.91E+01	3.98E-02	4.29E-05	5.94E-01	2.01E+00
410	9.60E+00	8.80E+01	3.16E-02	3.06E-05	7.19E-01	1.68E+00
420	1.11E+01	8.66E+01	2.51E-02	2.18E-05	8.66E-01	1.41E+00
430	1.28E+01	8.50E+01	1.98E-02	1.55E-05	1.04E+00	1.18E+00
440	1.47E+01	8.30E+01	1.56E-02	1.09E-05	1.24E+00	9.79E-01
450	1.68E+01	8.09E+01	1.23E-02	7.73E-06	1.48E+00	8.12E-01
460	1.91E+01	7.84E+01	9.63E-03	5.41E-06	1.75E+00	6.70E-01
470	2.17E+01	7.57E+01	7.51E-03	3.82E-06	2.07E+00	5.52E-01
480	2.44E+01	7.27E+01	5.83E-03	2.67E-06	2.42E+00	4.52E-01
490	2.73E+01	6.95E+01	4.51E-03	1.85E-06	2.82E+00	3.68E-01
500	3.04E+01	6.60E+01	3.47E-03	1.28E-06	3.27E+00	2.99E-01

z, км	He/S, %	O/S, %	On/S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	3.37E+01	6.23E+01	2.65E-03	8.84E-07	3.76E+00	2.41E-01
520	3.70E+01	5.85E+01	2.02E-03	6.06E-07	4.30E+00	1.93E-01
530	4.04E+01	5.46E+01	1.53E-03	4.13E-07	4.88E+00	1.54E-01
540	4.38E+01	5.06E+01	1.15E-03	2.80E-07	5.50E+00	1.22E-01
550	4.71E+01	4.66E+01	8.61E-04	1.89E-07	6.16E+00	9.62E-02
560	5.04E+01	4.27E+01	6.40E-04	1.27E-07	6.85E+00	7.54E-02
570	5.36E+01	3.88E+01	4.74E-04	8.44E-08	7.56E+00	5.87E-02
580	5.65E+01	3.51E+01	3.48E-04	5.60E-08	8.30E+00	4.55E-02
590	5.93E+01	3.16E+01	2.55E-04	3.70E-08	9.05E+00	3.51E-02
600	6.19E+01	2.83E+01	1.86E-04	2.43E-08	9.82E+00	2.69E-02
610	6.42E+01	2.51E+01	1.35E-04	1.59E-08	1.06E+01	2.06E-02
620	6.63E+01	2.23E+01	9.75E-05	1.04E-08	1.14E+01	1.56E-02
630	6.82E+01	1.97E+01	7.02E-05	6.77E-09	1.21E+01	1.18E-02
640	6.98E+01	1.73E+01	5.04E-05	4.39E-09	1.29E+01	8.94E-03
650	7.12E+01	1.52E+01	3.61E-05	2.84E-09	1.37E+01	6.74E-03
660	7.23E+01	1.32E+01	2.58E-05	1.83E-09	1.44E+01	5.06E-03
670	7.33E+01	1.15E+01	1.84E-05	1.18E-09	1.52E+01	3.79E-03
680	7.41E+01	1.00E+01	1.31E-05	7.61E-10	1.59E+01	2.84E-03
690	7.46E+01	8.70E+00	9.29E-06	4.89E-10	1.66E+01	2.12E-03
700	7.51E+01	7.54E+00	6.59E-06	3.14E-10	1.74E+01	1.58E-03
710	7.54E+01	6.52E+00	4.67E-06	2.02E-10	1.81E+01	1.18E-03
720	7.55E+01	5.63E+00	3.31E-06	1.29E-10	1.88E+01	8.76E-04
730	7.56E+01	4.86E+00	2.34E-06	8.31E-11	1.96E+01	6.52E-04
740	7.55E+01	4.19E+00	1.66E-06	5.33E-11	2.03E+01	4.85E-04
750	7.54E+01	3.61E+00	1.17E-06	3.42E-11	2.10E+01	3.60E-04
760	7.52E+01	3.11E+00	8.31E-07	2.19E-11	2.17E+01	2.68E-04
770	7.49E+01	2.67E+00	5.88E-07	1.41E-11	2.25E+01	1.99E-04
780	7.45E+01	2.30E+00	4.16E-07	9.03E-12	2.32E+01	1.48E-04
790	7.41E+01	1.98E+00	2.94E-07	5.80E-12	2.39E+01	1.10E-04
800	7.37E+01	1.70E+00	2.09E-07	3.73E-12	2.46E+01	8.17E-05

D-266; LAT-40; LON 45; LT-12; F-70; FAV-70; A_p-3; UT1-9

80	5.40E-04	1.22E-03	2.08E+01	8.83E-01	1.78E-05	7.83E+01
90	6.05E-04	3.10E-01	2.03E+01	8.34E-01	1.25E-04	7.86E+01
100	9.57E-04	3.49E+00	1.80E+01	6.90E-01	2.23E-04	7.78E+01
110	2.41E-03	1.03E-01	1.34E-01	4.58E-01	5.49E-04	7.58E+01
120	6.42E-03	1.83E+01	9.00E+00	2.78E-01	1.13E-03	7.24E+01
130	1.42E-02	2.51E+01	6.59E+00	1.78E-01	1.64E-03	6.81E+01
140	2.56E-02	3.09E+01	5.34E+00	1.20E-01	2.02E-03	6.36E+01
150	3.99E-02	3.61E+01	4.53E+00	8.42E-02	2.38E-03	5.92E+01
160	5.81E-02	1.12E+01	3.89E+00	6.09E-02	2.81E-03	5.48E+01
170	8.12E-02	1.60E+01	3.35E+00	4.49E-02	3.40E-03	5.05E+01
180	1.10E-01	5.08E+01	2.88E+00	3.34E-02	4.21E-03	4.62E+01
190	1.47E-01	5.53E+01	2.46E+00	2.51E-02	5.32E-03	4.20E+01
200	1.92E-01	5.97E+01	2.09E+00	1.88E-02	6.79E-03	3.80E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
210	2 47E-01	6 38E+01	1 77E+00	1 41E-02	8 74E-03	3 41E+01
220	3 14E-01	6 77E+01	1 49E+00	1 06E-02	1 13E-02	3 04E+01
230	3 95E-01	7 13E+01	1 25E+00	7 87E-03	1 45E-02	2 70E+01
240	4 92E-01	7 46E+01	1 04E+00	5 85E-03	1 87E-02	2 38E+01
250	6 09E-01	7 76E+01	8 64E-01	4 33E-03	2 39E-02	2 09E+01
260	7 47E-01	8 02E+01	7 14E-01	3 19E-03	3 04E-02	1 83E+01
270	9 12E-01	8 25E+01	5 88E-01	2 35E-03	3 86E-02	1 59E+01
280	1 11E+00	8 45E+01	4 82E-01	1 72E-03	4 87E-02	1 38E+01
290	1 34E+00	8 63E+01	3 94E-01	1 26E-03	6 12E-02	1 19E+01
300	1 61E+00	8 77E+01	3 21E-01	9 18E-04	7 66E-02	1 03E+01
310	1 93E+00	8 89E+01	2 61E-01	6 70E-04	9 57E-02	8 85E+00
320	2 30E+00	8 98E+01	2 12E-01	4 86E-04	1 19E-01	7 38E+00
330	2 73E+00	9 05E+01	1 71E-01	3 53E-04	1 47E-01	6 48E+00
340	3 23E+00	9 09E+01	1 38E-01	2 55E-04	1 81E-01	5 53E+00
350	3 81E+00	9 11E+01	1 12E-01	1 84E-04	2 23E-01	4 71E+00
360	4 49E+00	9 11E+01	8 98E-02	1 33E-04	2 74E-01	4 00E+00
370	5 27E+00	9 09E+01	7 21E-02	9 60E-05	3 34E-01	3 39E+00
380	6 17E+00	9 05E+01	5 78E-02	6 91E-05	4 07E-01	2 87E+00
390	7 20E+00	8 98E+01	4 63E-02	4 96E-05	4 95E-01	2 42E+00
400	8 37E+00	8 90E+01	3 70E-02	3 65E-05	5 99E-01	2 04E+00
410	9 70E+00	8 78E+01	2 95E-02	2 55E-05	7 23E-01	1 72E+00
420	1 12E+01	8 65E+01	2 34E-02	1 82E-05	8 70E-01	1 44E+00
430	1 29E+01	8 48E+01	1 86E-02	1 30E-05	1 04E+00	1 20E+00
440	1 48E+01	8 29E+01	1 47E-02	9 24E-06	1 24E+00	1 00E+00
450	1 69E+01	8 08E+01	1 16E-02	6 55E-06	1 48E+00	8 35E-01
460	1 92E+01	7 84E+01	9 10E-03	4 63E-06	1 75E+00	6 91E-01
470	2 17E+01	7 57E+01	7 12E-03	3 26E-06	2 05E+00	5 70E-01
480	2 44E+01	7 27E+01	5 55E-03	2 29E-06	2 40E+00	4 68E-01
490	2 73E+01	6 95E+01	4 30E-03	1 60E-06	2 79E+00	3 83E-01
500	3 03E+01	6 61E+01	3 32E-03	1 11E-06	3 23E+00	3 11E-01
510	3 35E+01	6 25E+01	2 55E-03	7 70E-07	3 71E+00	2 52E-01
520	3 68E+01	5 87E+01	1 95E-03	5 30E-07	4 24E+00	2 03E-01
530	4 02E+01	5 49E+01	1 48E-03	3 63E-07	4 80E+00	1 62E-01
540	4 35E+01	5 09E+01	1 12E-03	2 48E-07	5 41E+00	1 29E-01
550	4 68E+01	4 70E+01	8 40E-04	1 68E-07	6 05E+00	1 02E-01
560	5 01E+01	4 31E+01	6 28E-04	1 13E-07	6 72E+00	8 01E-02
570	5 32E+01	3 93E+01	4 67E-04	7 59E-08	7 42E+00	6 27E-02
580	5 62E+01	3 56E+01	3 45E-04	5 07E-08	8 14E+00	4 88E-02
590	5 90E+01	3 21E+01	2 51E-04	3 37E-08	8 88E+00	3 77E-02
600	6 16E+01	2 88E+01	1 86E-04	2 23E-08	9 63E+00	2 91E-02
610	6 39E+01	2 57E+01	1 35E-04	1 47E-08	1 04E+01	2 23E-02
620	6 60E+01	2 28E+01	9 84E-05	9 65E-09	1 11E+01	1 70E-02
630	6 79E+01	2 02E+01	7 12E-05	6 32E-09	1 19E+01	1 30E-02
640	6 96E+01	1 78E+01	5 14E-05	4 12E-09	1 26E+01	9 83E-03
650	7 10E+01	1 56E+01	3 70E-05	2 68E-09	1 34E+01	7 43E-03
660	7 22E+01	1 37E+01	2 65E-05	1 74E-09	1 41E+01	5 61E-03
670	7 32E+01	1 20E+01	1 90E-05	1 13E-09	1 49E+01	4 22E-03
680	7 40E+01	1 04E+01	1 36E-05	7 32E-10	1 56E+01	3 17E-03
690	7 46E+01	9 06E+00	9 70E-06	4 74E-10	1 63E+01	2 38E-03
700	7 51E+01	7 87E+00	6 91E-06	3 06E-10	1 71E+01	1 78E-03

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	7.54E+01	6.82E+00	4.93E-06	1.98E-10	1.78E+01	1.33E-03
720	7.56E+01	5.90E+00	3.51E-06	1.28E-10	1.85E+01	9.96E-04
730	7.57E+01	5.11E+00	2.49E-06	8.24E-11	1.92E+01	7.44E-04
740	7.57E+01	4.41E+00	1.77E-06	5.31E-11	1.99E+01	5.56E-04
750	7.56E+01	3.81E+00	1.26E-06	3.43E-11	2.06E+01	4.15E-04
760	7.54E+01	3.29E+00	8.97E-07	2.21E-11	2.13E+01	3.09E-04
770	7.51E+01	2.83E+00	6.38E-07	1.43E-11	2.20E+01	2.31E-04
780	7.48E+01	2.44E+00	4.53E-07	9.23E-12	2.28E+01	1.72E-04
790	7.44E+01	2.10E+00	3.22E-07	5.96E-12	2.35E+01	1.29E-04
800	7.40E+01	1.81E+00	2.29E-07	3.85E-12	2.42E+01	9.59E-05

D-266; LAT-80; LON-45; LT-12; F-70; WΔV-70; A₂-3; UT1-9

80	5.35E-04	1.16E-03	2.08E+01	9.15E-01	1.64E-05	7.83E+01
90	5.91E-04	2.92E-01	2.04E+01	8.84E-01	1.11E-04	7.85E+01
100	9.55E-04	3.28E+00	1.83E+01	7.51E-01	2.06E-04	7.77E+01
110	2.31E-03	9.43E+00	1.42E+01	5.34E-01	4.70E-04	7.58E+01
120	5.77E-03	1.64E+01	1.02E+01	3.54E-01	8.64E-04	7.30E+01
130	1.27E-02	2.24E+01	7.87E+00	2.45E-01	1.20E-03	6.95E+01
140	2.28E-02	2.75E+01	6.55E+00	1.77E-01	1.42E-03	6.58E+01
150	3.56E-02	3.22E+01	5.66E+00	1.31E-01	1.62E-03	6.20E+01
160	5.22E-02	3.68E+01	4.94E+00	9.88E-02	1.87E-03	5.81E+01
170	7.37E-02	4.13E+01	4.31E+00	7.51E-02	2.23E-03	5.42E+01
180	1.01E-01	4.58E+01	3.75E+00	5.73E-02	2.75E-03	5.03E+01
190	1.36E-01	5.03E+01	3.25E+00	4.38E-02	3.47E-03	4.63E+01
200	1.79E-01	5.46E+01	2.80E+00	3.34E-02	4.45E-03	4.23E+01
210	2.34E-01	5.89E+01	2.39E+00	2.53E-02	5.76E-03	3.85E+01
220	3.01E-01	6.29E+01	2.04E+00	1.92E-02	7.50E-03	3.47E+01
230	3.83E-01	6.68E+01	1.72E+00	1.44E-02	9.75E-03	3.11E+01
240	4.82E-01	7.04E+01	1.45E+00	1.08E-02	1.26E-02	2.77E+01
250	6.02E-01	7.37E+01	1.21E+00	8.05E-03	1.63E-02	2.45E+01
260	7.47E-01	7.67E+01	1.01E+00	5.98E-03	2.10E-02	2.16E+01
270	9.19E-01	7.93E+01	8.32E-01	4.41E-03	2.69E-02	1.89E+01
280	1.12E+00	8.17E+01	6.85E-01	3.25E-03	3.42E-02	1.65E+01
290	1.37E+00	8.37E+01	5.62E-01	2.38E-03	4.33E-02	1.43E+01
300	1.65E+00	8.55E+01	4.59E-01	1.74E-03	5.46E-02	1.23E+01
310	2.00E+00	8.69E+01	3.76E-01	1.27E-03	6.89E-02	1.07E+01
320	2.40E+00	8.80E+01	3.05E-01	9.26E-04	8.60E-02	9.17E+00
330	2.86E+00	8.89E+01	2.47E-01	6.70E-04	1.07E-01	7.85E+00
340	3.40E+00	8.96E+01	2.00E-01	4.85E-04	1.32E-01	6.69E+00
350	4.03E+00	8.99E+01	1.61E-01	3.50E-04	1.63E-01	5.70E+00
360	4.76E+00	9.01E+01	1.29E-01	2.52E-04	2.01E-01	4.84E+00
370	5.60E+00	8.99E+01	1.04E-01	1.81E-04	2.47E-01	4.10E+00
380	6.57E+00	8.96E+01	8.30E-02	1.30E-04	3.01E-01	3.47E+00
390	7.69E+00	8.90E+01	6.63E-02	9.31E-05	3.67E-01	2.92E+00
400	8.96E+00	8.81E+01	5.28E-02	6.66E-05	4.45E-01	2.46E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.04E+01	8.70E+01	4.20E-02	4.75E-05	5.39E-01	2.07E+00
420	1.20E+01	8.56E+01	3.33E-02	3.38E-05	6.49E-01	1.73E+00
430	1.39E+01	8.39E+01	2.63E-02	2.40E-05	7.78E-01	1.44E+00
440	1.59E+01	8.19E+01	2.08E-02	1.70E-05	9.30E-01	1.20E+00
450	1.82E+01	7.97E+01	1.63E-02	1.20E-05	1.11E+00	9.94E-01
460	2.06E+01	7.72E+01	1.28E-02	8.44E-06	1.31E+00	8.20E-01
470	2.33E+01	7.44E+01	9.95E-03	5.92E-06	1.54E+00	6.74E-01
480	2.62E+01	7.14E+01	7.72E-03	4.13E-06	1.80E+00	5.52E-01
490	2.93E+01	6.81E+01	5.96E-03	2.87E-06	2.09E+00	4.49E-01
500	3.26E+01	6.46E+01	4.58E-03	1.98E-06	2.42E+00	3.64E-01
510	3.60E+01	6.09E+01	3.50E-03	1.37E-06	2.78E+00	2.93E-01
520	3.95E+01	5.71E+01	2.66E-03	9.34E-07	3.17E+00	2.35E-01
530	4.30E+01	5.32E+01	2.01E-03	6.36E-07	3.59E+00	1.87E-01
540	4.66E+01	4.93E+01	1.51E-03	4.31E-07	4.04E+00	1.48E-01
550	5.00E+01	4.53E+01	1.13E-03	2.90E-07	4.52E+00	1.17E-01
560	5.35E+01	4.11E+01	8.40E-04	1.95E-07	5.02E+00	9.12E-02
570	5.67E+01	3.77E+01	6.21E-04	1.30E-07	5.54E+00	7.10E-02
580	5.98E+01	3.40E+01	4.57E-04	8.61E-08	6.07E+00	5.50E-02
590	6.27E+01	3.06E+01	3.34E-04	5.69E-08	6.61E+00	4.24E-02
600	6.54E+01	2.74E+01	2.44E-04	3.74E-08	7.17E+00	3.25E-02
610	6.79E+01	2.44E+01	1.77E-04	2.45E-08	7.73E+00	2.48E-02
620	7.01E+01	2.16E+01	1.28E-04	1.60E-08	8.29E+00	1.89E-02
630	7.21E+01	1.91E+01	9.22E-05	1.04E-08	8.85E+00	1.43E-02
640	7.38E+01	1.68E+01	6.63E-05	6.78E-09	9.41E+00	1.08E-02
650	7.53E+01	1.47E+01	4.75E-05	4.39E-09	9.98E+00	8.17E-03
660	7.66E+01	1.29E+01	3.40E-05	2.84E-09	1.05E+01	6.14E-03
670	7.77E+01	1.12E+01	2.43E-05	1.83E-09	1.11E+01	4.61E-03
680	7.86E+01	9.78E+00	1.73E-05	1.18E-09	1.17E+01	3.45E-03
690	7.93E+01	8.49E+00	1.23E-05	7.62E-10	1.22E+01	2.58E-03
700	7.99E+01	7.37E+00	8.75E-06	4.90E-10	1.28E+01	1.93E-03
710	8.03E+01	6.38E+00	6.21E-06	3.15E-10	1.33E+01	1.44E-03
720	8.06E+01	5.53E+00	4.41E-06	2.03E-10	1.39E+01	1.08E-03
730	8.08E+01	4.78E+00	3.13E-06	1.30E-10	1.44E+01	8.02E-04
740	8.09E+01	4.13E+00	2.22E-06	8.39E-11	1.50E+01	5.98E-04
750	8.09E+01	3.56E+00	1.58E-06	5.40E-11	1.56E+01	4.45E-04
760	8.08E+01	3.07E+00	1.12E-06	3.47E-11	1.61E+01	3.32E-04
770	8.07E+01	2.65E+00	7.93E-07	2.23E-11	1.67E+01	2.47E-04
780	8.05E+01	2.28E+00	5.63E-07	1.44E-11	1.73E+01	1.84E-04
790	8.02E+01	1.97E+00	4.00E-07	9.27E-12	1.78E+01	1.37E-04
800	7.99E+01	1.70E+00	2.81E-07	5.97E-12	1.84E+01	1.02E-04

D-266; LAT-40; LON-45; LT-12, F-70; FAV-70, A₃ 3; UTI-9

80	5.42E-04	1.22E-03	2.08E+01	9.11E-01	1.72E-05	7.83E+01
90	6.07E-04	3.11E-01	2.04E+01	8.77E-01	1.19E-04	7.84E+01
100	9.52E-04	3.48E+00	1.84E+01	7.49E-01	2.03E-04	7.74E+01

Продолжение табл. 10

r , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.42E-03	1.03E+01	1.42E+01	5.12E-01	4.93E-04	7.50E+01
120	6.67E-03	1.84E+01	1.01E+01	3.23E-01	1.00E-03	7.11E+01
130	1.53E-02	2.52E+01	7.73E+00	2.17E-01	1.42E-03	6.68E+01
140	2.84E-02	3.11E+01	6.36E+00	1.53E-01	1.71E-03	6.24E+01
150	4.46E-02	3.64E+01	5.42E+00	1.11E-01	1.97E-03	5.80E+01
160	6.51E-02	4.15E+01	4.66E+00	8.19E-02	2.29E-03	5.37E+01
170	9.12E-02	4.64E+01	4.01E+00	6.11E-02	2.73E-03	4.94E+01
180	1.24E-01	5.12E+01	3.44E+00	4.59E-02	3.35E-03	4.52E+01
190	1.65E-01	5.59E+01	2.93E+00	3.45E-02	4.20E-03	4.10E+01
200	2.16E-01	6.03E+01	2.49E+00	2.59E-02	5.35E-03	3.70E+01
210	2.78E-01	6.44E+01	2.10E+00	1.94E-02	6.87E-03	3.32E+01
220	3.54E-01	6.83E+01	1.77E+00	1.45E-02	8.85E-03	2.95E+01
230	4.45E-01	7.19E+01	1.47E+00	1.07E-02	1.14E-02	2.61E+01
240	5.55E-01	7.52E+01	1.23E+00	7.96E-03	1.46E-02	2.30E+01
250	6.87E-01	7.81E+01	1.01E+00	5.87E-03	1.87E-02	2.02E+01
260	8.44E-01	8.07E+01	8.35E-01	4.31E-03	2.39E-02	1.76E+01
270	1.03E+00	8.30E+01	6.85E-01	3.16E-03	3.03E-02	1.53E+01
280	1.25E+00	8.49E+01	5.60E-01	2.31E-03	3.83E-02	1.32E+01
290	1.51E+00	8.66E+01	4.56E-01	1.68E-03	4.82E-02	1.14E+01
300	1.82E+00	8.80E+01	3.71E-01	1.22E-03	6.04E-02	9.78E+00
310	2.18E+00	8.90E+01	3.01E-01	8.86E-04	7.55E-02	8.40E+00
320	2.60E+00	8.99E+01	2.43E-01	6.40E-04	9.39E-02	7.17E+00
330	3.09E+00	9.05E+01	1.96E-01	4.62E-04	1.16E-01	6.11E+00
340	3.67E+00	9.08E+01	1.58E-01	3.33E-04	1.44E-01	5.20E+00
350	4.33E+00	9.09E+01	1.27E-01	2.40E-04	1.77E-01	4.41E+00
360	5.10E+00	9.08E+01	1.02E-01	1.72E-04	2.17E-01	3.74E+00
370	5.99E+00	9.05E+01	8.14E-02	1.24E-04	2.65E-01	3.16E+00
380	7.01E+00	8.99E+01	6.50E-02	8.86E-05	3.23E-01	2.67E+00
390	8.18E+00	8.91E+01	5.19E-02	6.33E-05	3.93E-01	2.25E+00
400	9.51E+00	8.81E+01	4.13E-02	4.52E-05	4.76E-01	1.89E+00
410	1.10E+01	8.68E+01	3.28E-02	3.22E-05	5.74E-01	1.58E+00
420	1.27E+01	8.52E+01	2.59E-02	2.29E-05	6.90E-01	1.32E+00
430	1.46E+01	8.34E+01	2.05E-02	1.62E-05	8.27E-01	1.10E+00
440	1.68E+01	8.13E+01	1.61E-02	1.15E-05	9.85E-01	9.13E-01
450	1.91E+01	7.90E+01	1.26E-02	8.08E-06	1.17E+00	7.55E-01
460	2.17E+01	7.63E+01	9.87E-03	5.68E-06	1.38E+00	6.22E-01
470	2.44E+01	7.34E+01	7.67E-03	3.97E-06	1.62E+00	5.11E-01
480	2.74E+01	7.03E+01	5.94E-03	2.77E-06	1.89E+00	4.17E-01
490	3.06E+01	6.69E+01	4.58E-03	1.92E-06	2.19E+00	3.39E-01
500	3.39E+01	6.33E+01	3.51E-03	1.32E-06	2.53E+00	2.74E-01
510	3.73E+01	5.96E+01	2.68E-03	9.09E-07	2.90E+00	2.20E-01
520	4.08E+01	5.57E+01	2.03E-03	6.21E-07	3.30E+00	1.76E-01
530	4.44E+01	5.18E+01	1.53E-03	4.22E-07	3.73E+00	1.40E-01
540	4.79E+01	4.78E+01	1.15E-03	2.85E-07	4.18E+00	1.10E-01
550	5.14E+01	4.39E+01	8.57E-04	1.92E-07	4.66E+00	8.67E-02
560	5.47E+01	4.00E+01	6.36E-04	1.28E-07	5.17E+00	6.77E-02
570	5.79E+01	3.63E+01	4.69E-04	8.54E-08	5.69E+00	5.26E-02
580	6.10E+01	3.28E+01	3.44E-04	5.66E-08	6.22E+00	4.07E-02
590	6.38E+01	2.94E+01	2.52E-04	3.73E-08	6.76E+00	3.13E-02
600	6.64E+01	2.62E+01	1.83E-04	2.45E-08	7.31E+00	2.40E-02

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	6.88E+01	2.33E+01	1.33E-04	1.60E-08	7.87E+00	1.83E-02
620	7.09E+01	2.06E+01	9.59E-05	1.05E-08	8.43E+00	1.39E-02
630	7.28E+01	1.82E+01	6.90E-05	6.81E-09	8.99E+00	1.05E-02
640	7.45E+01	1.60E+01	4.96E-05	4.42E-09	9.55E+00	7.94E-03
650	7.59E+01	1.40E+01	3.55E-05	2.86E-09	1.01E+01	5.98E-03
660	7.71E+01	1.22E+01	2.54E-05	1.85E-09	1.07E+01	4.50E-03
670	7.81E+01	1.07E+01	1.81E-05	1.19E-09	1.12E+01	3.37E-03
680	7.89E+01	9.29E+00	1.29E-05	7.68E-10	1.18E+01	2.53E-03
690	7.96E+01	8.06E+00	9.17E-06	4.95E-10	1.23E+01	1.89E-03
700	8.01E+01	6.99E+00	6.52E-06	3.18E-10	1.29E+01	1.41E-03
710	8.05E+01	6.06E+00	4.63E-06	2.05E-10	1.34E+01	1.05E-03
720	8.08E+01	5.24E+00	3.29E-06	1.32E-10	1.40E+01	7.85E-04
730	8.09E+01	4.53E+00	2.33E-06	8.47E-11	1.45E+01	5.85E-04
740	8.10E+01	3.91E+00	1.65E-06	5.45E-11	1.51E+01	4.36E-04
750	8.10E+01	3.37E+00	1.17E-06	3.50E-11	1.56E+01	3.25E-04
760	8.09E+01	2.91E+00	8.33E-07	2.25E-11	1.62E+01	2.42E-04
770	8.07E+01	2.51E+00	5.91E-07	1.45E-11	1.68E+01	1.80E-04
780	8.05E+01	2.16E+00	4.19E-07	9.34E-12	1.74E+01	1.34E-04
790	8.02E+01	1.86E+00	2.98E-07	6.02E-12	1.79E+01	1.00E-04
800	7.99E+01	1.61E+00	2.11E-07	3.88E-12	1.85E+01	7.46E-05

D-266; LAT-80; LON-45; LT-12; F-70; WAV-70; A_p-3; UT1-9

80	5.40E-04	1.09E-03	2.09E+01	9.38E-01	1.77E-05	7.82E+01
90	6.01E-04	2.74E-01	2.05E+01	9.20E-01	1.23E-04	7.83E+01
100	9.50E-04	3.03E+00	1.88E+01	8.05E-01	2.20E-04	7.73E+01
110	2.31E-03	8.71E+00	1.54E+01	5.87E-01	5.21E-04	7.53E+01
120	5.78E-03	1.52E+01	1.19E+01	4.02E-01	1.03E-03	7.25E+01
130	1.15E-02	2.07E+01	9.68E+00	2.91E-01	1.50E-03	6.93E+01
140	1.95E-02	2.54E+01	8.29E+00	2.20E-01	1.86E-03	6.61E+01
150	3.04E-02	2.97E+01	7.27E+00	1.70E-01	2.20E-03	6.28E+01
160	4.46E-02	3.39E+01	6.43E+00	1.33E-01	2.62E-03	5.95E+01
170	6.31E-02	3.80E+01	5.69E+00	1.04E-01	3.18E-03	5.62E+01
180	8.67E-02	4.21E+01	5.02E+00	8.16E-02	3.97E-03	5.27E+01
190	1.16E-01	4.62E+01	4.42E+00	6.40E-02	5.05E-03	4.92E+01
200	1.54E-01	5.02E+01	3.88E+00	5.00E-02	6.50E-03	4.57E+01
210	2.00E-01	5.42E+01	3.38E+00	3.90E-02	8.43E-03	4.21E+01
220	2.57E-01	5.81E+01	2.93E+00	3.03E-02	1.09E-02	3.86E+01
230	3.26E-01	6.19E+01	2.53E+00	2.35E-02	1.42E-02	3.52E+01
240	4.10E-01	6.55E+01	2.17E+00	1.81E-02	1.83E-02	3.19E+01
250	5.11E-01	6.88E+01	1.85E+00	1.39E-02	2.36E-02	2.87E+01
260	6.32E-01	7.20E+01	1.58E+00	1.06E-02	3.02E-02	2.58E+01
270	7.75E-01	7.49E+01	1.33E+00	8.04E-03	3.84E-02	2.30E+01
280	9.44E-01	7.75E+01	1.12E+00	6.09E-03	4.85E-02	2.04E+01
290	1.14E+00	7.99E+01	9.39E-01	4.59E-03	6.11E-02	1.80E+01
300	1.38E+00	8.19E+01	7.83E-01	3.45E-03	7.64E-02	1.58E+01

r , км	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	H/S, %	N/S, %
310	1.67E+00	8.36E+01	6.58E-01	2.61E-03	9.60E-02	1.40E+01
320	1.98E+00	8.52E+01	5.44E-01	1.95E-03	1.19E-01	1.22E+01
330	2.35E+00	8.65E+01	4.49E-01	1.45E-03	1.46E-01	1.06E+01
340	2.78E+00	8.75E+01	3.70E-01	1.08E-03	1.80E-01	9.19E+00
350	3.27E+00	8.83E+01	3.04E-01	7.98E-04	2.20E-01	7.95E+00
360	3.84E+00	8.88E+01	2.49E-01	5.90E-04	2.68E-01	6.85E+00
370	4.49E+00	8.91E+01	2.04E-01	4.36E-04	3.26E-01	5.90E+00
380	5.23E+00	8.91E+01	1.66E-01	3.21E-04	3.95E-01	5.07E+00
390	6.08E+00	8.90E+01	1.35E-01	2.37E-04	4.76E-01	4.34E+00
400	7.05E+00	8.86E+01	1.10E-01	1.74E-04	5.73E-01	3.71E+00
410	8.14E+00	8.79E+01	8.93E-02	1.28E-04	6.88E-01	3.17E+00
420	9.37E+00	8.70E+01	7.23E-02	9.33E-05	8.22E-01	2.70E+00
430	1.07E+01	8.59E+01	5.84E-02	6.82E-05	9.80E-01	2.29E+00
440	1.23E+01	8.46E+01	4.71E-02	4.97E-05	1.16E+00	1.94E+00
450	1.40E+01	8.29E+01	3.78E-02	3.62E-05	1.38E+00	1.64E+00
460	1.59E+01	8.11E+01	3.03E-02	2.62E-05	1.62E+00	1.38E+00
470	1.80E+01	7.90E+01	2.42E-02	1.90E-05	1.90E+00	1.16E+00
480	2.02E+01	7.66E+01	1.93E-02	1.37E-05	2.22E+00	9.69E-01
490	2.26E+01	7.40E+01	1.53E-02	9.84E-06	2.58E+00	8.08E-01
500	2.52E+01	7.11E+01	1.21E-02	7.04E-06	2.98E+00	6.70E-01
510	2.79E+01	6.81E+01	9.50E-03	5.02E-06	3.43E+00	5.54E-01
520	3.08E+01	6.48E+01	7.44E-03	3.57E-06	3.92E+00	4.55E-01
530	3.38E+01	6.14E+01	5.80E-03	2.52E-06	4.46E+00	3.73E-01
540	3.68E+01	5.79E+01	4.50E-03	1.78E-06	5.04E+00	3.04E-01
550	3.99E+01	5.42E+01	3.48E-03	1.25E-06	5.66E+00	2.46E-01
560	4.30E+01	5.05E+01	2.67E-03	8.69E-07	6.32E+00	1.98E-01
570	4.60E+01	4.68E+01	2.04E-03	6.03E-07	7.02E+00	1.59E-01
580	4.90E+01	4.32E+01	1.55E-03	4.17E-07	7.74E+00	1.27E-01
590	5.18E+01	3.96E+01	1.18E-03	2.87E-07	8.50E+00	1.01E-01
600	5.45E+01	3.61E+01	8.86E-04	1.97E-07	9.27E+00	7.97E-02
610	5.71E+01	3.28E+01	6.65E-04	1.34E-07	1.01E+01	6.27E-02
620	5.95E+01	2.96E+01	4.97E-04	9.11E-08	1.09E+01	4.92E-02
630	6.17E+01	2.66E+01	3.70E-04	6.17E-08	1.17E+01	3.84E-02
640	6.36E+01	2.39E+01	2.74E-04	4.16E-08	1.25E+01	2.98E-02
650	6.54E+01	2.13E+01	2.03E-04	2.80E-08	1.33E+01	2.31E-02
660	6.70E+01	1.89E+01	1.50E-04	1.88E-08	1.41E+01	1.79E-02
670	6.83E+01	1.68E+01	1.10E-04	1.26E-08	1.49E+01	1.38E-02
680	6.95E+01	1.48E+01	8.07E-05	8.42E-09	1.57E+01	1.06E-02
690	7.05E+01	1.31E+01	5.91E-05	5.62E-09	1.64E+01	8.12E-03
700	7.13E+01	1.15E+01	4.32E-05	3.74E-09	1.72E+01	6.22E-03
710	7.19E+01	1.01E+01	3.15E-05	2.49E-09	1.80E+01	4.75E-03
720	7.24E+01	8.87E-00	2.30E-05	1.66E-09	1.87E+01	3.63E-03
730	7.27E+01	7.77E+00	1.67E-05	1.10E-09	1.95E+01	2.77E-03
740	7.30E+01	6.79E+00	1.22E-05	7.30E-10	2.02E+01	2.11E-03
750	7.31E+01	5.93E+00	8.86E-06	4.85E-10	2.10E+01	1.60E-03
760	7.31E+01	5.17E+00	6.44E-06	3.22E-10	2.17E+01	1.22E-03
770	7.30E+01	4.51E+00	4.68E-06	2.13E-10	2.25E+01	9.29E-04
780	7.29E+01	3.93E+00	3.40E-06	1.42E-10	2.32E+01	7.06E-04
790	7.27E-01	3.42E+00	2.47E-06	9.40E-11	2.39E+01	5.37E-04
800	7.24E+01	2.97E+00	1.79E-06	6.24E-11	2.46E+01	4.08E-04

Широтные вариации состава при средней солнечной активности для
осеннего равноденствия в северном и весеннего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-266; LAT-0; LON-45; LT-12; F-150; FΔV-150; A _p -3; UT1-9						
80	5.58E-04	1.28E-03	2.08E+01	8.99E-01	1.61E-05	7.83E+01
90	6.16E-04	3.27E-01	2.02E+01	8.62E-01	1.00E-04	7.86E+01
100	9.55E-04	3.67E+00	1.79E+01	7.32E-01	1.53E-04	7.77E+01
110	2.50E-03	1.13E+01	1.30E+01	4.78E-01	3.54E-04	7.53E+01
120	7.45E-03	2.05E+01	8.42E+00	2.88E-01	7.31E-04	7.08E+01
130	1.47E-02	2.73E+01	6.14E+00	1.95E-01	8.80E-04	6.63E+01
140	2.39E-02	3.27E+01	5.03E+00	1.41E-01	8.99E-04	6.21E+01
150	3.48E-02	3.73E+01	4.35E+00	1.06E-01	8.90E-04	5.82E+01
160	4.78E-02	4.15E+01	3.83E+00	8.18E-02	9.03E-04	5.45E+01
170	6.29E-02	4.55E+01	3.40E+00	6.45E-02	9.56E-04	5.10E+01
180	8.05E-02	4.92E+01	3.02E+00	5.16E-02	1.05E-03	4.76E+01
190	1.01E-01	5.28E+01	2.68E+00	4.15E-02	1.20E-03	4.43E+01
200	1.25E-01	5.63E+01	2.38E+00	3.36E-02	1.41E-03	4.12E+01
210	1.51E-01	5.95E+01	2.12E+00	2.73E-02	1.67E-03	3.82E+01
220	1.82E-01	6.26E+01	1.87E+00	2.22E-02	1.99E-03	3.53E+01
230	2.18E-01	6.55E+01	1.66E+00	1.80E-02	2.39E-03	3.26E+01
240	2.58E-01	6.83E+01	1.46E+00	1.46E-02	2.88E-03	3.00E+01
250	3.04E-01	7.09E+01	1.29E+00	1.19E-02	3.45E-03	2.75E+01
260	3.56E-01	7.33E+01	1.13E+00	9.63E-03	4.13E-03	2.52E+01
270	4.14E-01	7.56E+01	9.95E-01	7.80E-03	4.94E-03	2.30E+01
280	4.80E-01	7.77E+01	8.72E-01	6.31E-03	5.88E-03	2.10E+01
290	5.54E-01	7.96E+01	7.62E-01	5.10E-03	6.98E-03	1.91E+01
300	6.38E-01	8.13E+01	6.66E-01	4.12E-03	8.26E-03	1.73E+01
310	7.31E-01	8.30E+01	5.80E-01	3.32E-03	9.74E-03	1.57E+01
320	8.37E-01	8.44E+01	5.06E-01	2.68E-03	1.15E-02	1.42E+01
330	9.55E-01	8.57E+01	4.40E-01	2.16E-03	1.35E-02	1.29E+01
340	1.09E+00	8.69E+01	3.82E-01	1.73E-03	1.58E-02	1.16E+01
350	1.23E+00	8.79E+01	3.32E-01	1.40E-03	1.84E-02	1.05E+01
360	1.40E+00	8.88E+01	2.88E-01	1.12E-03	2.15E-02	9.44E+00
370	1.58E+00	8.96E+01	2.49E-01	9.00E-04	2.50E-02	8.50E+00
380	1.79E+00	9.03E+01	2.16E-01	7.22E-04	2.91E-02	7.64E+00
390	2.01E+00	9.09E+01	1.87E-01	5.80E-04	3.37E-02	6.87E+00
400	2.27E+00	9.14E+01	1.62E-01	4.65E-04	3.90E-02	6.17E+00
410	2.55E+00	9.17E+01	1.40E-01	3.73E-04	4.51E-02	5.53E+00
420	2.86E+00	9.20E+01	1.21E-01	2.99E-04	5.21E-02	4.96E+00
430	3.20E+00	9.22E+01	1.04E-01	2.39E-04	6.00E-02	4.44E+00
440	3.59E+00	9.23E+01	8.97E-02	1.91E-04	6.90E-02	3.98E+00
450	4.01E+00	9.23E+01	7.71E-02	1.53E-04	7.93E-02	3.56E+00
460	4.47E+00	9.22E+01	6.67E-02	1.23E-04	9.10E-02	3.18E+00
470	4.99E+00	9.20E+01	5.74E-02	9.82E-05	1.04E-01	2.84E+00
480	5.55E+00	9.17E+01	4.94E-02	7.85E-05	1.19E-01	2.54E+00
490	6.17E+00	9.14E+01	4.25E-02	6.28E-05	1.36E-01	2.27E+00
500	6.85E+00	9.09E+01	3.66E-02	5.02E-05	1.56E-01	2.02E+00

Продолжение табл. 11

λ , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	7.60E+00	9.04E+01	3.14E-02	4.01E-05	1.77E-01	1.80E+00
520	8.41E+00	8.98E+01	2.70E-02	3.20E-05	2.02E-01	1.60E+00
530	9.30E+00	8.90E+01	2.32E-02	2.56E-05	2.29E-01	1.43E+00
540	1.03E+01	8.82E+01	1.99E-02	2.04E-05	2.60E-01	1.27E+00
550	1.13E+01	8.72E+01	1.70E-02	1.62E-05	2.95E-01	1.13E+00
560	1.25E+01	8.62E+01	1.46E-02	1.29E-05	3.33E-01	1.00E+00
570	1.37E+01	8.50E+01	1.24E-02	1.03E-05	3.76E-01	8.86E-01
580	1.50E+01	8.38E+01	1.06E-02	8.20E-06	4.23E-01	7.84E-01
590	1.64E+01	8.24E+01	9.07E-03	6.51E-06	4.75E-01	6.93E-01
600	1.79E+01	8.09E+01	7.73E-03	5.17E-06	5.33E-01	6.12E-01
610	1.95E+01	7.93E+01	6.58E-03	4.10E-06	5.97E-01	5.39E-01
620	2.12E+01	7.76E+01	5.59E-03	3.24E-06	6.67E-01	4.75E-01
630	2.31E+01	7.58E+01	4.74E-03	2.57E-06	7.43E-01	4.17E-01
640	2.50E+01	7.38E+01	4.01E-03	2.03E-06	8.25E-01	3.66E-01
650	2.70E+01	7.18E+01	3.39E-03	1.60E-06	9.15E-01	3.20E-01
660	2.90E+01	6.97E+01	2.86E-03	1.26E-06	1.01E+00	2.80E-01
670	3.12E+01	6.74E+01	2.41E-03	9.87E-07	1.12E+00	2.44E-01
680	3.34E+01	6.51E+01	2.03E-03	7.74E-07	1.23E+00	2.13E-01
690	3.57E+01	6.27E+01	1.70E-03	6.06E-07	1.35E+00	1.85E-01
700	3.81E+01	6.03E+01	1.42E-03	4.74E-07	1.47E+00	1.60E-01
710	4.05E+01	5.78E+01	1.19E-03	3.70E-07	1.61E+00	1.38E-01
720	4.29E+01	5.53E+01	9.92E-04	2.88E-07	1.75E+00	1.19E-01
730	4.53E+01	5.27E+01	8.25E-04	2.23E-07	1.89E+00	1.03E-01
740	4.77E+01	5.01E+01	6.85E-04	1.73E-07	2.05E+00	8.82E-02
750	5.02E+01	4.76E+01	5.67E-04	1.34E-07	2.20E+00	7.56E-02
760	5.26E+01	4.50E+01	4.69E-04	1.04E-07	2.37E+00	6.46E-02
770	5.49E+01	4.25E+01	3.87E-04	7.98E-08	2.54E+00	5.51E-02
780	5.72E+01	4.00E+01	3.18E-04	6.14E-08	2.71E+00	4.69E-02
790	5.95E+01	3.76E+01	2.61E-04	4.72E-08	2.89E+00	3.98E-02
800	6.16E+01	3.53E+01	2.14E-04	3.62E-08	3.07E+00	3.38E-02
D-266, LAT-40, LON-45; LT-12; F-150; FAV-150; A _p -3; UT1-9						
80	5.41E-04	1.30E-03	2.08E+01	8.81E-01	1.54E-05	7.83E+01
90	6.05E-04	3.34E-01	2.02E+01	8.31E-01	1.01E-04	7.87E+01
100	9.58E-04	3.79E+00	1.76E+01	6.86E-01	1.66E-04	7.79E+01
110	2.43E-03	1.13E+01	1.26E+01	4.51E-01	3.75E-04	7.56E+01
120	6.46E-03	2.00E+01	8.05E+00	2.72E-01	6.86E-04	7.17E+01
130	1.39E-02	2.69E+01	5.73E+00	1.77E-01	8.59E-04	6.71E+01
140	2.40E-02	3.24E+01	4.63E+00	1.22E-01	9.05E-04	6.28E+01
150	3.56E-02	3.72E+01	3.98E+00	8.90E-02	9.18E-04	5.87E+01
160	4.92E-02	4.16E+01	3.49E+00	6.72E-02	9.49E-04	5.48E+01
170	6.50E-02	4.56E+01	3.08E+00	5.21E-02	1.02E-03	5.12E+01
180	8.36E-02	4.95E+01	2.73E+00	4.11E-02	1.13E-03	4.76E+01
190	1.05E-01	5.32E+01	2.42E+00	3.28E-02	1.30E-03	4.42E+01
200	1.30E-01	5.67E+01	2.14E+00	2.64E-02	1.53E-03	4.10E+01

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.58E-01	6.00E+01	1.89E+00	2.13E-02	1.82E-03	3.79E+01
220	1.90E-01	6.32E+01	1.67E+00	1.72E-02	2.19E-03	3.49E+01
230	2.27E-01	6.61E+01	1.47E+00	1.39E-02	2.63E-03	3.21E+01
240	2.70E-01	6.89E+01	1.30E+00	1.13E-02	3.16E-03	2.95E+01
250	3.17E-01	7.15E+01	1.14E+00	9.11E-03	3.79E-03	2.70E+01
260	3.71E-01	7.39E+01	1.00E+00	7.37E-03	4.55E-03	2.47E+01
270	4.32E-01	7.62E+01	8.76E-01	5.95E-03	5.43E-03	2.25E+01
280	5.01E-01	7.82E+01	7.66E-01	4.81E-03	6.47E-03	2.05E+01
290	5.79E-01	8.01E+01	6.69E-01	3.88E-03	7.67E-03	1.86E+01
300	6.66E-01	8.18E+01	5.83E-01	3.13E-03	9.08E-03	1.69E+01
310	7.62E-01	8.35E+01	5.07E-01	2.51E-03	1.07E-02	1.53E+01
320	8.71E-01	8.49E+01	4.41E-01	2.02E-03	1.26E-02	1.38E+01
330	9.94E-01	8.61E+01	3.83E-01	1.63E-03	1.48E-02	1.25E+01
340	1.13E+00	8.73E+01	3.33E-01	1.31E-03	1.73E-02	1.13E+01
350	1.29E+00	8.83E+01	2.89E-01	1.05E-03	2.02E-02	1.01E+01
360	1.46E+00	8.91E+01	2.50E-01	8.42E-04	2.36E-02	9.13E+00
370	1.65E+00	8.99E+01	2.16E-01	6.75E-04	2.75E-02	8.21E+00
380	1.86E+00	9.05E+01	1.87E-01	5.41E-04	3.19E-02	7.38E+00
390	2.10E+00	9.11E+01	1.62E-01	4.34E-04	3.70E-02	6.63E+00
400	2.36E+00	9.15E+01	1.40E-01	3.48E-04	4.28E-02	5.95E+00
410	2.65E+00	9.18E+01	1.21E-01	2.78E-04	4.95E-02	5.33E+00
420	2.98E+00	9.21E+01	1.04E-01	2.23E-04	5.71E-02	4.78E+00
430	3.33E+00	9.22E+01	8.99E-02	1.78E-04	6.59E-02	4.28E+00
440	3.73E+00	9.23E+01	7.75E-02	1.43E-04	7.58E-02	3.83E+00
450	4.17E+00	9.23E+01	6.68E-02	1.14E-04	8.71E-02	3.42E+00
460	4.65E+00	9.21E+01	5.75E-02	9.13E-05	9.99E-02	3.06E+00
470	5.19E+00	9.19E+01	4.95E-02	7.30E-05	1.15E-01	2.73E+00
480	5.77E+00	9.16E+01	4.26E-02	5.83E-05	1.31E-01	2.44E+00
490	6.42E+00	9.12E+01	3.66E-02	4.66E-05	1.50E-01	2.17E+00
500	7.13E+00	9.07E+01	3.14E-02	3.72E-05	1.71E-01	1.94E+00
510	7.90E+00	9.02E+01	2.70E-02	2.97E-05	1.95E-01	1.73E+00
520	8.74E+00	8.95E+01	2.32E-02	2.37E-05	2.21E-01	1.54E+00
530	9.66E+00	8.87E+01	1.99E-02	1.89E-05	2.51E-01	1.36E+00
540	1.07E+01	8.78E+01	1.70E-02	1.51E-05	2.85E-01	1.21E+00
550	1.18E+01	8.68E+01	1.46E-02	1.20E-05	3.23E-01	1.08E+00
560	1.29E+01	8.57E+01	1.25E-02	9.54E-06	3.65E-01	9.54E-01
570	1.42E+01	8.45E+01	1.06E-02	7.59E-06	4.11E-01	8.41E-01
580	1.56E+01	8.32E+01	9.08E-03	6.03E-06	4.63E-01	7.47E-01
590	1.70E+01	8.18E+01	7.74E-03	4.78E-06	5.20E-01	6.60E-01
600	1.86E+01	8.03E+01	6.59E-03	3.79E-06	5.83E-01	5.82E-01
610	2.02E+01	7.86E+01	5.60E-03	3.00E-06	6.52E-01	5.12E-01
620	2.20E+01	7.68E+01	4.75E-03	2.37E-06	7.28E-01	4.50E-01
630	2.38E+01	7.50E+01	4.02E-03	1.87E-06	8.11E-01	3.95E-01
640	2.58E+01	7.30E+01	3.40E-03	1.48E-06	9.00E-01	3.46E-01
650	2.78E+01	7.09E+01	2.87E-03	1.16E-06	9.97E-01	3.03E-01
660	2.99E+01	6.87E+01	2.42E-03	9.14E-07	1.10E+00	2.64E-01
670	3.21E+01	6.64E+01	2.04E-03	7.17E-07	1.21E+00	2.30E-01
680	3.44E+01	6.41E+01	1.71E-03	5.62E-07	1.33E+00	2.00E-01
690	3.67E+01	6.16E+01	1.43E-03	4.39E-07	1.46E+00	1.73E-01
700	3.91E+01	5.92E+01	1.20E-03	3.42E-07	1.60E+00	1.50E-01

Продолжение табл. 11

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	4.15E+01	5.66E+01	9.99E-04	2.67E-07	1.74E+00	1.30E-01
720	4.39E+01	5.41E+01	8.31E-04	2.07E-07	1.89E+00	1.12E-01
730	4.64E+01	5.15E+01	6.90E-04	1.61E-07	2.05E+00	9.59E-02
740	4.88E+01	4.89E+01	5.72E-04	1.24E-07	2.21E+00	8.22E-02
750	5.12E+01	4.63E+01	4.73E-04	9.60E-08	2.38E+00	7.03E-02
760	5.36E+01	4.38E+01	3.90E-04	7.40E-08	2.55E+00	6.00E-02
770	5.59E+01	4.13E+01	3.21E-04	5.69E-08	2.73E+00	5.11E-02
780	5.82E+01	3.88E+01	2.64E-04	4.37E-08	2.92E+00	4.35E-02
790	6.04E+01	3.64E+01	2.16E-04	3.35E-08	3.11E+00	3.69E-02
800	6.26E+01	3.41E+01	1.77E-04	2.57E-08	3.30E+00	3.12E-02

D-266; LAT-80; LON-45; LT-12, F-150; FAV 150; A_p-3; UT1-9

80	5.36E-04	1.23E-03	2.08E+01	9.12E-01	1.41E-05	7.83E+01
90	5.91E-04	3.14E-01	2.03E+01	8.81E-01	8.87E-05	7.85E+01
100	9.56E-04	3.55E+00	1.80E+01	7.46E-01	1.53E-04	7.77E+01
110	2.35E-03	1.03E+01	1.35E+01	5.27E-01	3.20E-04	7.57E+01
120	5.83E-03	1.79E+01	9.19E+00	3.48E-01	5.20E-04	7.26E+01
130	1.24E-02	2.40E+01	6.87E+00	2.44E-01	6.19E-04	6.89E+01
140	2.14E-02	2.89E+01	5.71E+00	1.81E-01	6.23E-04	6.52E+01
150	3.18E-02	3.31E-01	4.98E+00	1.39E-01	6.09E-04	6.17E+01
160	4.41E-02	3.71E+01	4.43E+00	1.09E-01	6.14E-04	5.83E+01
170	5.88E-02	4.09E+01	3.96E+00	8.68E-02	6.48E-04	5.50E+01
180	7.62E-02	4.46E+01	3.54E+00	7.00E-02	7.16E-04	5.17E+01
190	9.67E-02	4.81E+01	3.17E+00	5.67E-02	8.21E-04	4.86E+01
200	1.21E-01	5.16E+01	2.83E+00	4.62E-02	9.66E-04	4.54E+01
210	1.49E-01	5.49E+01	2.53E+00	3.76E-02	1.16E-03	4.24E+01
220	1.81E-01	5.81E+01	2.25E+00	3.06E-02	1.40E-03	3.94E+01
230	2.18E-01	6.12E+01	2.00E+00	2.50E-02	1.69E-03	3.65E+01
240	2.61E-01	6.42E+01	1.77E+00	2.03E-02	2.05E-03	3.38E+01
250	3.11E-01	6.70E+01	1.56E+00	1.65E-02	2.49E-03	3.11E+01
260	3.67E-01	6.97E+01	1.38E+00	1.34E-02	3.01E-03	2.86E+01
270	4.31E-01	7.22E+01	1.21E+00	1.08E-02	3.63E-03	2.62E+01
280	5.05E-01	7.45E+01	1.06E+00	8.77E-03	4.36E-03	2.39E+01
290	5.87E-01	7.67E+01	9.31E-01	7.08E-03	5.22E-03	2.18E+01
300	6.81E-01	7.87E+01	8.13E-01	5.70E-03	6.23E-03	1.98E+01
310	7.88E-01	8.05E+01	7.10E-01	4.60E-03	7.42E-03	1.80E+01
320	9.07E-01	8.21E+01	6.18E-01	3.69E-03	8.80E-03	1.63E+01
330	1.04E+00	8.36E+01	5.36E-01	2.96E-03	1.04E-02	1.48E+01
340	1.19E+00	8.50E+01	4.65E-01	2.37E-03	1.23E-02	1.33E+01
350	1.36E+00	8.62E+01	4.03E-01	1.90E-03	1.44E-02	1.20E+01
360	1.55E+00	8.73E+01	3.49E-01	1.52E-03	1.69E-02	1.08E+01
370	1.76E+00	8.82E+01	3.01E-01	1.21E-03	1.98E-02	9.70E+00
380	2.00E+00	8.90E+01	2.60E-01	9.70E-04	2.31E-02	8.71E+00
390	2.27E+00	8.97E+01	2.24E-01	7.74E-04	2.70E-02	7.81E+00
400	2.56E+00	9.02E+01	1.93E-01	6.17E-04	3.14E-02	6.99E+00

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	2.89E+00	9.06E+01	1.66E-01	4.92E-04	3.65E-02	6.26E+00
420	3.25E+00	9.10E+01	1.43E-01	3.92E-04	4.23E-02	5.59E+00
430	3.66E+00	9.12E+01	1.23E-01	3.12E-04	4.89E-02	5.00E+00
440	4.11E+00	9.13E+01	1.06E-01	2.48E-04	5.66E-02	4.46E+00
450	4.61E+00	9.13E+01	9.07E-02	1.97E-04	6.53E-02	3.98E+00
460	5.16E+00	9.11E+01	7.78E-02	1.57E-04	7.52E-02	3.54E+00
470	5.77E+00	9.09E+01	6.67E-02	1.25E-04	8.65E-02	3.15E+00
480	6.44E+00	9.06E+01	5.71E-02	9.89E-05	9.93E-02	2.81E+00
490	7.18E+00	9.02E+01	4.89E-02	7.85E-05	1.14E-01	2.49E+00
500	7.98E+00	8.96E+01	4.18E-02	6.23E-05	1.30E-01	2.21E+00
510	8.87E+00	8.90E+01	3.57E-02	4.94E-05	1.49E-01	1.96E+00
520	9.84E+00	8.82E+01	3.05E-02	3.91E-05	1.70E-01	1.74E+00
530	1.09E+01	8.73E+01	2.60E-02	3.10E-05	1.93E-01	1.54E+00
540	1.20E+01	8.64E+01	2.22E-02	2.45E-05	2.20E-01	1.36E+00
550	1.33E+01	8.52E+01	1.89E-02	1.94E-05	2.49E-01	1.20E+00
560	1.46E+01	8.40E+01	1.60E-02	1.53E-05	2.82E-01	1.06E+00
570	1.61E+01	8.27E+01	1.36E-02	1.21E-05	3.19E-01	9.36E-01
580	1.76E+01	8.12E+01	1.15E-02	9.50E-06	3.59E-01	8.23E-01
590	1.93E+01	7.96E+01	9.78E-03	7.47E-06	4.04E-01	7.23E-01
600	2.10E+01	7.79E+01	8.27E-03	5.87E-06	4.53E-01	6.34E-01
610	2.29E+01	7.60E+01	6.98E-03	4.61E-06	5.07E-01	5.55E-01
620	2.49E+01	7.40E+01	5.88E-03	3.61E-06	5.66E-01	4.85E-01
630	2.70E+01	7.20E+01	4.94E-03	2.82E-06	6.30E-01	4.23E-01
640	2.91E+01	6.98E+01	4.15E-03	2.20E-06	7.00E-01	3.68E-01
650	3.14E+01	6.75E+01	3.47E-03	1.72E-06	7.75E-01	3.19E-01
660	3.37E+01	6.51E+01	2.90E-03	1.34E-06	8.55E-01	2.77E-01
670	3.62E+01	6.27E+01	2.42E-03	1.04E-06	9.41E-01	2.39E-01
680	3.86E+01	6.01E+01	2.01E-03	8.04E-07	1.03E+00	2.06E-01
690	4.11E+01	5.76E+01	1.67E-03	6.21E-07	1.13E+00	1.77E-01
700	4.37E+01	5.49E+01	1.38E-03	4.79E-07	1.23E+00	1.52E-01
710	4.62E+01	5.23E+01	1.14E-03	3.69E-07	1.34E+00	1.30E-01
720	4.88E+01	4.96E+01	9.43E-04	2.83E-07	1.45E+00	1.11E-01
730	5.13E+01	4.70E+01	7.76E-04	2.17E-07	1.57E+00	9.47E-02
740	5.39E+01	4.44E+01	6.36E-04	1.66E-07	1.69E+00	8.05E-02
750	5.63E+01	4.18E+01	5.21E-04	1.27E-07	1.81E+00	6.83E-02
760	5.87E+01	3.93E+01	4.26E-04	9.66E-08	1.94E+00	5.77E-02
770	6.11E+01	3.68E+01	3.47E-04	7.35E-08	2.07E+00	4.87E-02
780	6.34E+01	3.44E+01	2.82E-04	5.58E-08	2.21E+00	4.11E-02
790	6.56E+01	3.21E+01	2.29E-04	4.23E-08	2.34E+00	3.45E-02
800	6.77E+01	2.98E+01	1.86E-04	3.20E-08	2.48E+00	2.90E-02

D—266; LAT—40; LON—45; LT—12; F—150; FAV—150; A_p—3; UT1—9

80	5.44E-04	1.31E-03	2.08E+01	9.09E-01	1.49E-05	7.83E+01
90	6.08E-04	3.38E-01	2.03E+01	8.74E-01	9.63E-05	7.85E+01
100	9.52E-04	3.81E+00	1.80E+01	7.44E-01	1.51E-04	7.74E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
110	2.44E-03	1.14E+01	1.34E+01	5.03E-01	3.35E-04	7.47E+01
120	6.73E-03	2.03E+01	9.05E+00	3.15E-01	6.08E-04	7.03E+01
130	1.52E-02	2.74E+01	6.70E+00	2.15E-01	7.41E-04	6.57E+01
140	2.70E-02	3.30E+01	5.50E+00	1.55E-01	7.60E-04	6.13E+01
150	4.03E-02	3.78E+01	4.74E+00	1.17E-01	7.53E-04	5.73E+01
160	5.56E-02	4.23E+01	4.16E+00	9.00E-02	7.63E-04	5.34E+01
170	7.35E-02	4.64E+01	3.67E+00	7.07E-02	8.06E-04	4.97E+01
180	9.43E-02	5.04E+01	3.24E+00	5.62E-02	8.89E-04	4.62E+01
190	1.18E-01	5.41E+01	2.86E+00	4.50E-02	1.01E-03	4.29E+01
200	1.46E-01	5.76E+01	2.53E+00	3.62E-02	1.18E-03	3.96E+01
210	1.78E-01	6.10E+01	2.23E+00	2.92E-02	1.40E-03	3.66E+01
220	2.14E-01	6.41E+01	1.97E+00	2.36E-02	1.67E-03	3.37E+01
230	2.55E-01	6.71E+01	1.73E+00	1.91E-02	2.01E-03	3.09E+01
240	3.02E-01	6.98E+01	1.52E+00	1.54E-02	2.41E-03	2.83E+01
250	3.55E-01	7.24E+01	1.34E+00	1.24E-02	2.89E-03	2.59E+01
260	4.15E-01	7.48E+01	1.17E+00	1.00E-02	3.46E-03	2.36E+01
270	4.83E-01	7.70E+01	1.02E+00	8.10E-03	4.12E-03	2.15E+01
280	5.59E-01	7.90E+01	8.93E-01	6.52E-03	4.90E-03	1.95E+01
290	6.45E-01	8.08E+01	7.78E-01	5.25E-03	5.82E-03	1.77E+01
300	7.41E-01	8.25E+01	6.78E-01	4.23E-03	6.88E-03	1.61E+01
310	8.47E-01	8.41E+01	5.87E-01	3.39E-03	8.09E-03	1.45E+01
320	9.69E-01	8.54E+01	5.11E-01	2.72E-03	9.52E-03	1.31E+01
330	1.10E+00	8.66E+01	4.43E-01	2.19E-03	1.12E-02	1.18E+01
340	1.26E+00	8.77E+01	3.84E-01	1.75E-03	1.31E-02	1.06E+01
350	1.43E+00	8.86E+01	3.33E-01	1.41E-03	1.53E-02	9.58E+00
360	1.62E+00	8.95E+01	2.88E-01	1.13E-03	1.78E-02	8.62E+00
370	1.83E+00	9.02E+01	2.49E-01	9.03E-04	2.07E-02	7.74E+00
380	2.06E+00	9.07E+01	2.15E-01	7.23E-04	2.41E-02	6.95E+00
390	2.32E+00	9.12E+01	1.86E-01	5.79E-04	2.79E-02	6.24E+00
400	2.61E+00	9.16E+01	1.60E-01	4.63E-04	3.23E-02	5.59E+00
410	2.94E+00	9.19E+01	1.38E-01	3.70E-04	3.73E-02	5.01E+00
420	3.29E+00	9.21E+01	1.19E-01	2.96E-04	4.31E-02	4.48E+00
430	3.69E+00	9.21E+01	1.03E-01	2.37E-04	4.96E-02	4.01E+00
440	4.13E+00	9.21E+01	8.85E-02	1.89E-04	5.71E-02	3.58E+00
450	4.61E+00	9.20E+01	7.62E-02	1.51E-04	6.56E-02	3.20E+00
460	5.15E+00	9.19E+01	6.55E-02	1.21E-04	7.52E-02	2.86E+00
470	5.73E+00	9.16E+01	5.63E-02	9.63E-05	8.62E-02	2.55E+00
480	6.38E+00	9.12E+01	4.84E-02	7.69E-05	9.86E-02	2.27E+00
490	7.09E+00	9.07E+01	4.15E-02	6.13E-05	1.13E-01	2.02E+00
500	7.86E+00	9.02E+01	3.56E-02	4.89E-05	1.28E-01	1.80E+00
510	8.71E+00	8.95E+01	3.06E-02	3.90E-05	1.46E-01	1.60E+00
520	9.64E+00	8.87E+01	2.62E-02	3.10E-05	1.66E-01	1.42E+00
530	1.06E+01	8.79E+01	2.24E-02	2.47E-05	1.89E-01	1.26E+00
540	1.17E+01	8.69E+01	1.92E-02	1.97E-05	2.14E-01	1.12E+00
550	1.29E+01	8.58E+01	1.64E-02	1.56E-05	2.42E-01	9.93E-01
560	1.42E+01	8.46E+01	1.40E-02	1.24E-05	2.73E-01	8.79E-01
570	1.56E+01	8.33E+01	1.19E-02	9.84E-06	3.08E-01	7.77E-01
580	1.70E+01	8.19E+01	1.02E-02	7.80E-06	3.46E-01	6.86E-01
590	1.86E+01	8.04E+01	8.64E-03	6.18E-06	3.88E-01	6.05E-01
600	2.03E+01	7.87E+01	7.34E-03	4.89E-06	4.35E-01	5.32E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	2.21E+01	7.70E+01	6.22E-03	3.86E-06	4.85E-01	4.68E-01
620	2.40E+01	7.51E+01	5.27E-03	3.04E-06	5.41E-01	4.10E-01
630	2.59E+01	7.31E+01	4.45E-03	2.40E-06	6.01E-01	3.59E-01
640	2.80E+01	7.10E+01	3.76E-03	1.88E-06	6.67E-01	3.14E-01
650	3.02E+01	6.88E+01	3.16E-03	1.48E-06	7.37E-01	2.74E-01
660	3.24E+01	6.66E+01	2.66E-03	1.16E-06	8.13E-01	2.38E-01
670	3.47E+01	6.42E+01	2.23E-03	9.07E-07	8.94E-01	2.07E-01
680	3.71E+01	6.18E+01	1.87E-03	7.08E-07	9.80E-01	1.79E-01
690	3.95E+01	5.93E+01	1.56E-03	5.52E-07	1.07E+00	1.55E-01
700	4.19E+01	5.68E+01	1.30E-03	4.29E-07	1.17E+00	1.34E-01
710	4.44E+01	5.42E+01	1.08E-03	3.33E-07	1.27E+00	1.15E-01
720	4.69E+01	5.16E+01	8.97E-04	2.58E-07	1.38E+00	9.90E-02
730	4.94E+01	4.90E+01	7.43E-04	1.99E-07	1.49E+00	8.48E-02
740	5.19E+01	4.65E+01	6.14E-04	1.54E-07	1.60E+00	7.25E-02
750	5.43E+01	4.39E+01	5.06E-04	1.18E-07	1.72E+00	6.19E-02
760	5.67E+01	4.14E+01	4.16E-04	9.10E-08	1.84E+00	5.27E-02
770	5.91E+01	3.89E+01	3.42E-04	6.98E-08	1.97E+00	4.47E-02
780	6.13E+01	3.65E+01	2.80E-04	5.34E-08	2.10E+00	3.79E-02
790	6.35E+01	3.42E+01	2.29E-04	4.08E-08	2.23E+00	3.21E-02
800	6.57E+01	3.19E+01	1.87E-04	3.12E-08	2.36E+00	2.71E-02

D 266; LAT--80; LON-45; LT-12; F-150; FAV-150; A_p-3; UTI-9

80	5.42E-04	1.16E-03	2.08E+01	9.35E-01	1.52E-05	7.82E+01
90	6.02E-04	2.94E-01	2.04E+01	9.17E-01	9.85E-05	7.84E+01
100	9.51E-04	3.28E+00	1.85E+01	8.01E-01	1.62E-04	7.74E+01
110	2.36E-03	9.52E+00	1.46E+01	5.80E-01	3.53E-04	7.53E+01
120	5.89E-03	1.66E+01	1.07E+01	3.96E-01	6.19E-04	7.22E+01
130	1.15E-02	2.23E+01	8.48E+00	2.91E-01	7.76E-04	6.89E+01
140	1.88E-02	2.68E+01	7.24E+00	2.26E-01	8.18E-04	6.57E+01
150	2.78E-02	3.07E+01	6.41E+00	1.80E-01	8.32E-04	6.27E+01
160	3.88E-02	3.44E+01	5.76E+00	1.45E-01	8.64E-04	5.97E+01
170	5.20E-02	3.78E+01	5.20E+00	1.19E-01	9.34E-04	5.68E+01
180	6.77E-02	4.12E+01	4.70E+00	9.78E-02	1.06E-03	5.39E+01
190	8.62E-02	4.45E+01	4.25E+00	8.07E-02	1.22E-03	5.11E+01
200	1.08E-01	4.77E+01	3.84E+00	6.67E-02	1.45E-03	4.83E+01
210	1.33E-01	5.08E+01	3.47E+00	5.52E-02	1.74E-03	4.55E+01
220	1.63E-01	5.39E+01	3.12E+00	4.57E-02	2.11E-03	4.27E+01
230	1.97E-01	5.69E+01	2.81E+00	3.78E-02	2.57E-03	4.00E+01
240	2.36E-01	5.98E+01	2.52E+00	3.13E-02	3.12E-03	3.74E+01
250	2.81E-01	6.26E+01	2.25E+00	2.58E-02	3.79E-03	3.48E+01
260	3.32E-01	6.53E+01	2.01E+00	2.13E-02	4.58E-03	3.23E+01
270	3.90E-01	6.79E+01	1.79E+00	1.75E-02	5.52E-03	2.99E+01
280	4.56E-01	7.03E+01	1.59E+00	1.44E-02	6.62E-03	2.76E+01
290	5.31E-01	7.26E+01	1.41E+00	1.18E-02	7.92E-03	2.55E+01
300	6.16E-01	7.47E+01	1.24E+00	9.66E-03	9.43E-03	2.34E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	7.14E-01	7.66E+01	1.10E+00	7.93E-03	1.13E-02	2.15E+01
320	8.21E-01	7.85E+01	9.70E-01	6.47E-03	1.33E-02	1.97E+01
330	9.40E-01	8.02E+01	8.52E-01	5.27E-03	1.57E-02	1.80E+01
340	1.07E+00	8.18E+01	7.47E-01	4.28E-03	1.84E-02	1.64E+01
350	1.22E+00	8.32E+01	6.54E-01	3.48E-03	2.16E-02	1.49E+01
360	1.39E+00	8.45E+01	5.72E-01	2.82E-03	2.52E-02	1.35E+01
370	1.58E+00	8.57E+01	5.00E-01	2.29E-03	2.94E-02	1.22E+01
380	1.78E+00	8.67E+01	4.36E-01	1.85E-03	3.42E-02	1.11E+01
390	2.01E+00	8.76E+01	3.80E-01	1.50E-03	3.97E-02	1.00E+01
400	2.27E+00	8.83E+01	3.31E-01	1.21E-03	4.60E-02	9.04E+00
410	2.55E+00	8.89E+01	2.87E-01	9.80E-04	5.31E-02	8.16E+00
420	2.87E+00	8.95E+01	2.50E-01	7.91E-04	6.13E-02	7.35E+00
430	3.21E+00	8.99E+01	2.17E-01	6.38E-04	7.06E-02	6.62E+00
440	3.59E+00	9.02E+01	1.88E-01	5.15E-04	8.12E-02	5.96E+00
450	4.02E+00	9.04E+01	1.63E-01	4.15E-04	9.33E-02	5.35E+00
460	4.48E+00	9.05E+01	1.41E-01	3.34E-04	1.07E-01	4.81E+00
470	4.99E+00	9.04E+01	1.22E-01	2.69E-04	1.22E-01	4.31E+00
480	5.55E+00	9.03E+01	1.06E-01	2.17E-04	1.40E-01	3.87E+00
490	6.17E+00	9.01E+01	9.14E-02	1.74E-04	1.60E-01	3.47E+00
500	6.84E+00	8.98E+01	7.89E-02	1.40E-04	1.82E-01	3.10E+00
510	7.58E+00	8.94E+01	6.81E-02	1.13E-04	2.07E-01	2.77E+00
520	8.38E+00	8.88E+01	5.87E-02	9.06E-05	2.35E-01	2.48E+00
530	9.26E+00	8.82E+01	5.06E-02	7.27E-05	2.66E-01	2.21E+00
540	1.02E+01	8.75E+01	4.36E-02	5.83E-05	3.02E-01	1.97E+00
550	1.12E+01	8.66E+01	3.75E-02	4.68E-05	3.41E-01	1.76E+00
560	1.23E+01	8.57E+01	3.22E-02	3.75E-05	3.85E-01	1.57E+00
570	1.35E+01	8.46E+01	2.77E-02	3.00E-05	4.33E-01	1.39E+00
580	1.48E+01	8.34E+01	2.37E-02	2.40E-05	4.87E-01	1.24E+00
590	1.62E+01	8.21E+01	2.03E-02	1.92E-05	5.46E-01	1.10E+00
600	1.77E+01	8.07E+01	1.74E-02	1.53E-05	6.11E-01	9.71E-01
610	1.92E+01	7.92E+01	1.49E-02	1.22E-05	6.83E-01	8.59E-01
620	2.09E+01	7.76E+01	1.27E-02	9.71E-06	7.61E-01	7.59E-01
630	2.26E+01	7.58E+01	1.08E-02	7.72E-06	8.46E-01	6.69E-01
640	2.45E+01	7.40E+01	9.18E-03	6.13E-06	9.39E-01	5.89E-01
650	2.64E+01	7.20E+01	7.80E-03	4.86E-06	1.04E+00	5.17E-01
660	2.84E+01	7.00E+01	6.61E-03	3.85E-06	1.15E+00	4.54E-01
670	3.05E+01	6.78E+01	5.59E-03	3.04E-06	1.26E+00	3.97E-01
680	3.27E+01	6.56E+01	4.72E-03	2.40E-06	1.39E+00	3.47E-01
690	3.49E+01	6.33E+01	3.98E-03	1.89E-06	1.52E+00	3.02E-01
700	3.72E+01	6.09E+01	3.35E-03	1.49E-06	1.66E+00	2.63E-01
710	3.95E+01	5.85E+01	2.81E-03	1.17E-06	1.81E+00	2.28E-01
720	4.18E+01	5.60E+01	2.35E-03	9.14E-07	1.96E+00	1.98E-01
730	4.42E+01	5.35E+01	1.97E-03	7.05E-07	2.13E+00	1.71E-01
740	4.65E+01	5.10E+01	1.64E-03	5.58E-07	2.30E+00	1.47E-01
750	4.89E+01	4.85E+01	1.37E-03	4.34E-07	2.48E+00	1.27E-01
760	5.12E+01	4.60E+01	1.13E-03	3.38E-07	2.66E+00	1.09E-01
770	5.35E+01	4.36E+01	9.40E-04	2.62E-07	2.85E+00	9.34E-02
780	5.58E+01	4.11E+01	7.78E-04	2.03E-07	3.04E+00	7.99E-02
790	5.80E+01	3.87E+01	6.43E-04	1.57E-07	3.24E+00	6.81E-02
800	6.01E+01	3.64E+01	5.30E-04	1.21E-07	3.45E+00	5.80E-02

Широтные вариации состава при высокой солнечной активности для осеннего
равноденствия в северном и весеннего в южном полушариях

z, км	He/S, %	O/S, %	Os/S, %	Ar/S, %	H/S, %	N ₂ /S, %
D—266; LAT—0; LON—45; LT—12; F—200; FAV—200; A _p —3; UT1—9						
80	5.54E-04	1.33E-03	2.07E+01	8.97E-01	1.44E-05	7.84E+01
90	6.16E-04	3.41E-01	2.02E+01	8.60E-01	8.77E-05	7.86E+01
100	9.56E-04	3.85E+00	1.77E+01	7.29E-01	1.26E-04	7.77E+01
110	2.47E-03	1.19E+01	1.25E+01	4.74E-01	2.76E-04	7.51E+01
120	5.19E-03	2.04E+01	8.12E+00	3.07E-01	3.80E-04	7.12E+01
130	9.83E-03	2.64E+01	5.96E+00	2.20E-01	3.71E-04	6.74E+01
140	1.72E-02	3.14E+01	4.91E+00	1.62E-01	3.47E-04	6.35E+01
150	2.59E-02	3.59E+01	4.25E+00	1.23E-01	3.34E-04	5.97E+01
160	3.62E-02	4.02E+01	3.75E+00	9.49E-02	3.37E-04	5.59E+01
170	4.84E-02	4.43E+01	3.32E+00	7.48E-02	3.59E-04	5.23E+01
180	6.26E-02	4.81E+01	2.96E+00	5.99E-02	3.98E-04	4.88E+01
190	7.95E-02	5.17E+01	2.63E+00	4.82E-02	4.58E-04	4.55E+01
200	9.84E-02	5.52E+01	2.34E+00	3.93E-02	5.36E-04	4.24E+01
210	1.19E-01	5.84E+01	2.09E+00	3.22E-02	6.34E-04	3.94E+01
220	1.43E-01	6.14E+01	1.86E+00	2.65E-02	7.53E-04	3.66E+01
230	1.70E-01	6.42E+01	1.66E+00	2.18E-02	8.96E-04	3.40E+01
240	1.99E-01	6.68E+01	1.48E+00	1.81E-02	1.06E-03	3.15E+01
250	2.32E-01	6.93E+01	1.32E+00	1.50E-02	1.26E-03	2.91E+01
260	2.68E-01	7.16E+01	1.18E+00	1.24E-02	1.48E-03	2.70E+01
270	3.08E-01	7.37E+01	1.05E+00	1.03E-02	1.74E-03	2.49E+01
280	3.53E-01	7.57E+01	9.39E-01	8.57E-03	2.04E-03	2.30E+01
290	4.01E-01	7.76E+01	8.37E-01	7.12E-03	2.38E-03	2.12E+01
300	4.55E-01	7.93E+01	7.45E-01	5.92E-03	2.76E-03	1.95E+01
310	5.12E-01	8.09E+01	6.61E-01	4.91E-03	3.18E-03	1.79E+01
320	5.77E-01	8.23E+01	5.88E-01	4.08E-03	3.68E-03	1.65E+01
330	6.49E-01	8.37E+01	5.22E-01	3.39E-03	4.24E-03	1.51E+01
340	7.28E-01	8.49E+01	4.63E-01	2.81E-03	4.88E-03	1.39E+01
350	8.16E-01	8.60E+01	4.11E-01	2.33E-03	5.60E-03	1.27E+01
360	9.12E-01	8.70E+01	3.64E-01	1.94E-03	6.43E-03	1.17E+01
370	1.02E+00	8.80E+01	3.22E-01	1.60E-03	7.35E-03	1.07E+01
380	1.14E+00	8.88E+01	2.85E-01	1.33E-03	8.40E-03	9.77E+00
390	1.26E+00	8.95E+01	2.52E-01	1.10E-03	9.58E-03	8.93E+00
400	1.41E+00	9.02E+01	2.23E-01	9.10E-04	1.09E-02	8.15E+00
410	1.56E+00	9.08E+01	1.97E-01	7.53E-04	1.24E-02	7.44E+00
420	1.73E+00	9.13E+01	1.74E-01	6.23E-04	1.41E-02	6.78E+00
430	1.92E+00	9.17E+01	1.53E-01	5.16E-04	1.60E-02	6.19E+00
440	2.12E+00	9.21E+01	1.35E-01	4.27E-04	1.82E-02	5.64E+00
450	2.34E+00	9.24E+01	1.19E-01	3.53E-04	2.06E-02	5.14E+00
460	2.59E+00	9.26E+01	1.05E-01	2.92E-04	2.32E-02	4.68E+00
470	2.85E+00	9.28E+01	9.28E-02	2.41E-04	2.63E-02	4.26E+00
480	3.14E+00	9.29E+01	8.18E-02	2.00E-04	2.96E-02	3.87E+00
490	3.46E+00	9.29E+01	7.21E-02	1.65E-04	3.34E-02	3.52E+00
500	3.80E+00	9.29E+01	6.35E-02	1.36E-04	3.76E-02	3.20E+00

Продолжение табл. 12

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	4.17E+00	9.28E+01	5.95E-02	1.13E-04	4.23E-02	2.91E+00
520	4.58E+00	9.27E+01	4.92E-02	9.33E-05	4.75E-02	2.64E+00
530	5.02E+00	9.25E+01	4.33E-02	7.71E-05	5.33E-02	2.40E+00
540	5.50E+00	9.22E+01	3.81E-02	6.37E-05	5.98E-02	2.18E+00
550	6.02E+00	9.19E+01	3.35E-02	5.27E-05	6.70E-02	1.98E+00
560	6.58E+00	9.15E+01	2.95E-02	4.35E-05	7.49E-02	1.80E+00
570	7.19E+00	9.11E+01	2.59E-02	3.60E-05	8.38E-02	1.63E+00
580	7.84E+00	9.06E+01	2.28E-02	2.97E-05	9.35E-02	1.48E+00
590	8.55E+00	9.00E+01	2.00E-02	2.45E-05	1.04E-01	1.34E+00
600	9.31E+00	8.93E+01	1.76E-02	2.03E-05	1.16E-01	1.21E+00
610	1.01E+01	8.86E+01	1.54E-02	1.67E-05	1.29E-01	1.09E+00
620	1.10E+01	8.79E+01	1.35E-02	1.38E-05	1.44E-01	9.90E-01
630	1.19E+01	8.70E+01	1.19E-02	1.14E-05	1.60E-01	8.95E-01
640	1.29E+01	8.61E+01	1.04E-02	9.38E-06	1.77E-01	8.08E-01
650	1.40E+01	8.51E+01	9.09E-03	7.73E-06	1.96E-01	7.29E-01
660	1.51E+01	8.40E+01	7.95E-03	6.36E-06	2.17E-01	6.58E-01
670	1.63E+01	8.28E+01	6.95E-03	5.24E-06	2.39E-01	5.92E-01
680	1.76E+01	8.16E+01	6.07E-03	4.31E-06	2.64E-01	5.33E-01
690	1.90E+01	8.03E+01	5.30E-03	3.54E-06	2.91E-01	4.80E-01
700	2.04E+01	7.89E+01	4.62E-03	2.91E-06	3.19E-01	4.31E-01
710	2.19E+01	7.74E+01	4.03E-03	2.39E-06	3.50E-01	3.87E-01
720	2.34E+01	7.58E+01	3.50E-03	1.96E-06	3.84E-01	3.47E-01
730	2.50E+01	7.42E+01	3.04E-03	1.60E-06	4.20E-01	3.10E-01
740	2.67E+01	7.25E+01	2.64E-03	1.31E-06	4.58E-01	2.77E-01
750	2.85E+01	7.08E+01	2.29E-03	1.07E-06	4.99E-01	2.48E-01
760	3.03E+01	6.89E+01	1.99E-03	8.76E-07	5.43E-01	2.21E-01
770	3.22E+01	6.70E+01	1.72E-03	7.14E-07	5.89E-01	1.97E-01
780	3.41E+01	6.51E+01	1.48E-03	5.82E-07	6.38E-01	1.75E-01
790	3.61E+01	6.31E+01	1.28E-03	4.74E-07	6.90E-01	1.55E-01
800	3.81E+01	6.10E+01	1.10E-03	3.85E-07	7.45E-01	1.38E-01

D-266; LAT-40; LON-45; LT-12; F-200; FAV-200; A_p-3; UTI-9

80	5.41E-04	1.35E-03	2.08E+01	8.79E-01	1.41E-05	7.84E+01
90	6.07E-04	3.50E-01	2.01E+01	8.29E-01	8.85E-05	7.87E+01
100	9.58E-04	3.99E+00	1.74E+01	6.83E-01	1.37E-04	7.79E+01
110	2.26E-03	1.19E+01	1.22E+01	4.46E-01	2.76E-04	7.54E+01
120	4.69E-03	2.02E+01	7.70E+00	2.85E-01	3.75E-04	7.18E+01
130	9.36E-03	2.61E+01	5.55E+00	1.99E-01	3.67E-04	6.81E+01
140	1.68E-02	3.09E+01	4.54E+00	1.43E-01	3.44E-04	6.43E+01
150	2.53E-02	3.55E+01	3.93E+00	1.05E-01	3.34E-04	6.05E+01
160	3.54E-02	3.98E+01	3.46E+00	7.99E-02	3.43E-04	5.66E+01
170	4.77E-02	4.40E+01	3.05E+00	6.19E-02	3.71E-04	5.28E+01
180	6.21E-02	4.80E+01	2.70E+00	4.88E-02	4.18E-04	4.92E+01
190	7.95E-02	5.18E+01	2.39E+00	3.89E-02	4.88E-04	4.57E+01
200	9.91E-02	5.54E+01	2.12E+00	3.13E-02	5.78E-04	4.24E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
210	1.21E-01	5.87E+01	1.88E+00	2.54E-02	6.89E-04	3.92E+01
220	1.46E-01	6.18E+01	1.67E+00	2.07E-02	8.25E-04	3.63E+01
230	1.74E-01	6.47E+01	1.48E+00	1.70E-02	9.87E-04	3.36E+01
240	2.05E-01	6.74E+01	1.32E+00	1.40E-02	1.18E-03	3.10E+01
250	2.39E-01	7.00E+01	1.17E+00	1.15E-02	1.40E-03	2.86E+01
260	2.77E-01	7.23E+01	1.04E+00	9.50E-03	1.65E-03	2.64E+01
270	3.18E-01	7.44E+01	9.26E-01	7.85E-03	1.95E-03	2.43E+01
280	3.64E-01	7.64E+01	8.22E-01	6.50E-03	2.28E-03	2.24E+01
290	4.15E-01	7.82E+01	7.31E-01	5.38E-03	2.66E-03	2.06E+01
300	4.70E-01	7.99E+01	6.49E-01	4.46E-03	3.09E-03	1.90E+01
310	5.28E-01	8.16E+01	5.74E-01	3.68E-03	3.56E-03	1.73E+01
320	5.96E-01	8.30E+01	5.09E-01	3.05E-03	4.12E-03	1.59E+01
330	6.70E-01	8.43E+01	4.52E-01	2.53E-03	4.75E-03	1.46E+01
340	7.53E-01	8.55E+01	4.00E-01	2.10E-03	5.47E-03	1.34E+01
350	8.43E-01	8.65E+01	3.54E-01	1.73E-03	6.29E-03	1.23E+01
360	9.43E-01	8.75E+01	3.13E-01	1.44E-03	7.21E-03	1.12E+01
370	1.05E+00	8.84E+01	2.77E-01	1.19E-03	8.26E-03	1.02E+01
380	1.17E+00	8.92E+01	2.45E-01	9.82E-04	9.44E-03	9.36E+00
390	1.31E+00	8.99E+01	2.16E-01	8.12E-04	1.08E-02	8.54E+00
400	1.46E+00	9.06E+01	1.91E-01	6.70E-04	1.23E-02	7.79E+00
410	1.62E+00	9.11E+01	1.68E-01	5.54E-04	1.40E-02	7.10E+00
420	1.79E+00	9.16E+01	1.48E-01	4.57E-04	1.59E-02	6.47E+00
430	1.99E+00	9.20E+01	1.31E-01	3.78E-04	1.80E-02	5.89E+00
440	2.20E+00	9.23E+01	1.15E-01	3.12E-04	2.05E-02	5.37E+00
450	2.43E+00	9.26E+01	1.02E-01	2.58E-04	2.32E-02	4.88E+00
460	2.68E+00	9.28E+01	8.95E-02	2.13E-04	2.62E-02	4.44E+00
470	2.95E+00	9.29E+01	7.88E-02	1.75E-04	2.96E-02	4.04E+00
480	3.26E+00	9.30E+01	6.93E-02	1.45E-04	3.34E-02	3.67E+00
490	3.59E+00	9.30E+01	6.10E-02	1.20E-04	3.77E-02	3.33E+00
500	3.95E+00	9.29E+01	5.37E-02	9.87E-05	4.25E-02	3.03E+00
510	4.34E+00	9.28E+01	4.72E-02	8.14E-05	4.78E-02	2.75E+00
520	4.76E+00	9.26E+01	4.15E-02	6.72E-05	5.38E-02	2.50E+00
530	5.22E+00	9.24E+01	3.65E-02	5.55E-05	6.04E-02	2.26E+00
540	5.72E+00	9.21E+01	3.21E-02	4.58E-05	6.77E-02	2.05E+00
550	6.26E+00	9.18E+01	2.82E-02	3.77E-05	7.59E-02	1.86E+00
560	6.85E+00	9.14E+01	2.47E-02	3.11E-05	8.50E-02	1.69E+00
570	7.48E+00	9.09E+01	2.17E-02	2.57E-05	9.51E-02	1.53E+00
580	8.17E+00	9.03E+01	1.90E-02	2.12E-05	1.06E-01	1.38E+00
590	8.91E+00	8.97E+01	1.67E-02	1.74E-05	1.19E-01	1.25E+00
600	9.70E+00	8.90E+01	1.46E-02	1.44E-05	1.32E-01	1.13E+00
610	1.05E+01	8.83E+01	1.28E-02	1.18E-05	1.47E-01	1.02E+00
620	1.15E+01	8.74E+01	1.12E-02	9.75E-06	1.64E-01	9.23E-01
630	1.24E+01	8.65E+01	9.84E-03	8.03E-06	1.82E-01	8.33E-01
640	1.35E+01	8.56E+01	8.60E-03	6.60E-06	2.01E-01	7.52E-01
650	1.46E+01	8.45E+01	7.52E-03	5.43E-06	2.23E-01	6.77E-01
660	1.58E+01	8.34E+01	6.57E-03	4.46E-06	2.47E-01	6.10E-01
670	1.70E+01	8.21E+01	5.73E-03	3.66E-06	2.72E-01	5.49E-01
680	1.84E+01	8.09E+01	5.00E-03	3.01E-06	3.00E-01	4.93E-01
690	1.97E+01	7.95E+01	4.35E-03	2.47E-06	3.31E-01	4.43E-01
700	2.12E+01	7.80E+01	3.79E-03	2.02E-06	3.63E-01	3.97E-01

Продолжение табл. 12

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	2.28E+01	7.65E+01	3.29E-03	1.65E-06	3.99E-01	3.56E-01
720	2.44E+01	7.49E+01	2.86E-03	1.35E-06	4.37E-01	3.18E-01
730	2.61E+01	7.32E+01	2.48E-03	1.11E-06	4.77E-01	2.85E-01
740	2.78E+01	7.14E+01	2.15E-03	9.03E-07	5.21E-01	2.54E-01
750	2.96E+01	6.96E+01	1.86E-03	7.36E-07	5.67E-01	2.26E-01
760	3.15E+01	6.77E+01	1.61E-03	6.00E-07	6.17E-01	2.01E-01
770	3.34E+01	6.57E+01	1.39E-03	4.88E-07	6.69E-01	1.79E-01
780	3.54E+01	6.37E+01	1.20E-03	3.96E-07	7.24E-01	1.59E-01
790	3.74E+01	6.17E+01	1.03E-03	3.22E-07	7.82E-01	1.41E-01
800	3.94E+01	5.96E+01	8.84E-04	2.61E-07	8.43E-01	1.25E-01

D—266; LAT—80; LON—45; LT—12; F—200; FAV—200; A_p—3; UT1—9

80	5.37E-04	1.28E-03	2.08E+01	9.10E-01	1.28E-05	7.83E+01
90	5.90E-04	3.28E-01	2.02E+01	8.79E-01	7.69E-05	7.86E+01
100	9.56E-04	3.73E+00	1.77E+01	7.43E-01	1.26E-04	7.78E+01
110	2.38E-03	1.09E+01	1.30E+01	5.22E-01	2.53E-04	7.56E+01
120	5.89E-03	1.89E+01	8.58E+00	3.44E-01	3.79E-04	7.22E+01
130	1.23E-02	2.51E+01	6.29E+00	2.43E-01	4.10E-04	6.84E+01
140	2.06E-02	2.99E+01	5.21E+00	1.82E-01	3.75E-04	6.47E+01
150	2.99E-02	3.41E+01	4.56E+00	1.41E-01	3.36E-04	6.12E+01
160	4.05E-02	3.79E+01	4.08E+00	1.12E-01	3.14E-04	5.79E+01
170	5.28E-02	4.14E+01	3.67E+00	9.09E-02	3.12E-04	5.48E+01
180	6.69E-02	4.48E+01	3.31E+00	7.45E-02	3.27E-04	5.17E+01
190	8.30E-02	4.81E+01	2.99E+00	6.15E-02	3.59E-04	4.87E+01
200	1.01E-01	5.13E+01	2.70E+00	5.10E-02	4.07E-04	4.58E+01
210	1.22E-01	5.44E+01	2.43E+00	4.24E-02	4.72E-04	4.30E+01
220	1.46E-01	5.73E+01	2.19E+00	3.53E-02	5.53E-04	4.03E+01
230	1.73E-01	6.02E+01	1.97E+00	2.94E-02	6.53E-04	3.76E+01
240	2.03E-01	6.29E+01	1.77E+00	2.45E-02	7.73E-04	3.51E+01
250	2.37E-01	6.55E+01	1.59E+00	2.04E-02	9.16E-04	3.27E+01
260	2.75E-01	6.79E+01	1.42E+00	1.70E-02	1.08E-03	3.03E+01
270	3.18E-01	7.03E+01	1.27E+00	1.41E-02	1.28E-03	2.81E+01
280	3.66E-01	7.25E+01	1.13E+00	1.17E-02	1.51E-03	2.60E+01
290	4.20E-01	7.45E+01	1.01E+00	9.72E-03	1.77E-03	2.40E+01
300	4.79E-01	7.65E+01	8.98E-01	8.05E-03	2.07E-03	2.21E+01
310	5.45E-01	7.83E+01	7.97E-01	6.66E-03	2.42E-03	2.04E+01
320	6.19E-01	8.00E+01	7.37E-01	5.50E-03	2.82E-03	1.87E+01
330	7.02E-01	8.15E+01	6.26E-01	4.55E-03	3.28E-03	1.72E+01
340	7.93E-01	8.29E+01	5.54E-01	3.75E-03	3.80E-03	1.57E+01
350	8.94E-01	8.42E+01	4.90E-01	3.10E-03	4.40E-03	1.44E+01
360	1.01E+00	8.54E+01	4.33E-01	2.55E-03	5.08E-03	1.32E+01
370	1.13E+00	8.65E+01	3.82E-01	2.10E-03	5.85E-03	1.20E+01
380	1.27E+00	8.74E+01	3.37E-01	1.73E-03	6.73E-03	1.10E+01
390	1.42E+00	8.83E+01	2.97E-01	1.42E-03	7.73E-03	9.99E+00
400	1.58E+00	8.90E+01	2.61E-01	1.17E-03	8.85E-03	9.10E+00

Z, км	H ₂ /S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.77E+00	8.97E+01	2.30E-01	9.62E-04	1.01E-02	8.28E+00
420	1.97E+00	9.03E+01	2.02E-01	7.90E-04	1.16E-02	7.53E+00
430	2.19E+00	9.08E+01	1.77E-01	6.49E-04	1.32E-02	6.84E+00
440	2.43E+00	9.12E+01	1.56E-01	5.33E-04	1.51E-02	6.21E+00
450	2.70E+00	9.15E+01	1.37E-01	4.37E-04	1.71E-02	5.64E+00
460	2.99E+00	9.18E+01	1.20E-01	3.59E-04	1.95E-02	5.12E+00
470	3.31E+00	9.19E+01	1.05E-01	2.94E-04	2.21E-02	4.64E+00
480	3.66E+00	9.20E+01	9.21E-02	2.41E-04	2.51E-02	4.20E+00
490	4.05E+00	9.20E+01	8.07E-02	1.98E-04	2.84E-02	3.81E+00
500	4.47E+00	9.20E+01	7.07E-02	1.62E-04	3.21E-02	3.44E+00
510	4.92E+00	9.19E+01	6.19E-02	1.33E-04	3.63E-02	3.12E+00
520	5.42E+00	9.17E+01	5.42E-02	1.09E-04	4.09E-02	2.82E+00
530	5.96E+00	9.14E+01	4.74E-02	8.93E-05	4.62E-02	2.55E+00
540	6.55E+00	9.11E+01	4.14E-02	7.32E-05	5.20E-02	2.30E+00
550	7.19E+00	9.06E+01	3.62E-02	5.99E-05	5.84E-02	2.08E+00
560	7.88E+00	9.01E+01	3.16E-02	4.90E-05	6.56E-02	1.87E+00
570	8.63E+00	8.96E+01	2.76E-02	4.01E-05	7.36E-02	1.69E+00
580	9.44E+00	8.89E+01	2.41E-02	3.28E-05	8.25E-02	1.52E+00
590	1.03E+01	8.82E+01	2.10E-02	2.69E-05	9.23E-02	1.37E+00
600	1.12E+01	8.74E+01	1.83E-02	2.20E-05	1.03E-01	1.23E+00
610	1.23E+01	8.65E+01	1.60E-02	1.79E-05	1.15E-01	1.11E+00
620	1.33E+01	8.55E+01	1.39E-02	1.46E-05	1.28E-01	9.98E-01
630	1.45E+01	8.45E+01	1.21E-02	1.20E-05	1.43E-01	8.96E-01
640	1.57E+01	8.33E+01	1.05E-02	9.75E-06	1.59E-01	8.03E-01
650	1.70E+01	8.21E+01	9.11E-03	7.94E-06	1.76E-01	7.20E-01
660	1.84E+01	8.08E+01	7.90E-03	6.47E-06	1.95E-01	6.44E-01
670	1.99E+01	7.93E+01	6.84E-03	5.26E-06	2.15E-01	5.76E-01
680	2.14E+01	7.78E+01	5.92E-03	4.28E-06	2.37E-01	5.14E-01
690	2.30E+01	7.62E+01	5.12E-03	3.47E-06	2.62E-01	4.59E-01
700	2.47E+01	7.46E+01	4.42E-03	2.82E-06	2.88E-01	4.09E-01
710	2.65E+01	7.28E+01	3.81E-03	2.28E-06	3.15E-01	3.64E-01
720	2.84E+01	7.10E+01	3.28E-03	1.85E-06	3.45E-01	3.23E-01
730	3.03E+01	6.91E+01	2.82E-03	1.49E-06	3.77E-01	2.86E-01
740	3.23E+01	6.71E+01	2.42E-03	1.21E-06	4.11E-01	2.54E-01
750	3.43E+01	6.50E+01	2.08E-03	9.73E-07	4.48E-01	2.24E-01
760	3.64E+01	6.29E+01	1.78E-03	7.83E-07	4.86E-01	1.98E-01
770	3.85E+01	6.08E+01	1.52E-03	6.30E-07	5.26E-01	1.74E-01
780	4.07E+01	5.86E+01	1.30E-03	5.06E-07	5.69E-01	1.53E-01
790	4.29E+01	5.64E+01	1.11E-03	4.06E-07	6.13E-01	1.35E-01
800	4.51E+01	5.41E+01	9.41E-04	3.25E-07	6.60E-01	1.18E-01
D-266; LAT-40; LON-45; LT-12; F-200; FAV-200; A _p -3; UT1-9						
80	5.43E-04	1.38E-03	2.08E+01	9.07E-01	1.37E-05	7.83E+01
90	6.09E-04	3.56E-01	2.02E+01	8.72E-01	8.43E-05	7.86E+01
100	9.53E-04	4.03E+00	1.78E+01	7.41E-01	1.25E-04	7.74E+01

Продолжение табл. 12

z, км	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.29E-03	1.21E+01	1.29E+01	4.98E-01	2.49E-04	7.45E+01
120	4.90E-03	2.07E+01	8.64E+00	3.29E-01	3.35E-04	7.04E+01
130	1.03E-02	2.68E+01	6.47E+00	2.40E-01	3.20E-04	6.65E+01
140	1.92E-02	3.18E+01	5.37E+00	1.80E-01	2.92E-04	6.27E+01
150	2.91E-02	3.64E+01	4.66E+00	1.37E-01	2.76E-04	5.88E+01
160	4.07E-02	4.09E+01	4.09E+00	1.06E-01	2.78E-04	5.49E+01
170	5.46E-02	4.52E+01	3.61E+00	8.33E-02	2.95E-04	5.11E+01
180	7.09E-02	4.92E+01	3.19E+00	6.63E-02	3.27E-04	4.75E+01
190	9.03E-02	5.31E+01	2.82E+00	5.30E-02	3.78E-04	4.40E+01
200	1.12E-01	5.67E+01	2.49E+00	4.28E-02	4.43E-04	4.07E+01
210	1.36E-01	6.00E+01	2.21E+00	3.47E-02	5.25E-04	3.76E+01
220	1.64E-01	6.31E+01	1.96E+00	2.83E-02	6.25E-04	3.48E+01
230	1.94E-01	6.60E+01	1.74E+00	2.32E-02	7.44E-04	3.21E+01
240	2.28E-01	6.86E+01	1.51E+00	1.90E-02	8.84E-04	2.96E+01
250	2.66E-01	7.11E+01	1.37E+00	1.57E-02	1.05E-03	2.72E+01
260	3.07E-01	7.34E+01	1.21E+00	1.29E-02	1.24E-03	2.51E+01
270	3.53E-01	7.55E+01	1.08E+00	1.07E-02	1.45E-03	2.31E+01
280	4.03E-01	7.74E+01	9.54E-01	8.81E-03	1.70E-03	2.12E+01
290	4.59E-01	7.92E+01	8.47E-01	7.29E-03	1.98E-03	1.95E+01
300	5.19E-01	8.08E+01	7.51E-01	6.03E-03	2.29E-03	1.79E+01
310	5.82E-01	8.24E+01	6.62E-01	4.97E-03	2.64E-03	1.63E+01
320	6.56E-01	8.38E+01	5.87E-01	4.11E-03	3.05E-03	1.50E+01
330	7.38E-01	8.50E+01	5.20E-01	3.41E-03	3.51E-03	1.37E+01
340	8.28E-01	8.61E+01	4.61E-01	2.82E-03	4.04E-03	1.26E+01
350	9.27E-01	8.71E+01	4.08E-01	2.33E-03	4.64E-03	1.15E+01
360	1.04E+00	8.81E+01	3.60E-01	1.93E-03	5.32E-03	1.05E+01
370	1.16E+00	8.89E+01	3.18E-01	1.59E-03	6.08E-03	9.61E+00
380	1.29E+00	8.96E+01	2.81E-01	1.32E-03	6.95E-03	8.77E+00
390	1.43E+00	9.03E+01	2.48E-01	1.09E-03	7.93E-03	8.00E+00
400	1.60E+00	9.09E+01	2.18E-01	8.94E-04	9.08E-03	7.28E+00
410	1.78E+00	9.14E+01	1.92E-01	7.38E-04	1.03E-02	6.63E+00
420	1.97E+00	9.18E+01	1.69E-01	6.09E-04	1.17E-02	6.04E+00
430	2.18E+00	9.22E+01	1.49E-01	5.03E-04	1.33E-02	5.50E+00
440	2.41E+00	9.24E+01	1.31E-01	4.15E-04	1.51E-02	5.00E+00
450	2.66E+00	9.27E+01	1.16E-01	3.42E-04	1.71E-02	4.55E+00
460	2.94E+00	9.28E+01	1.02E-01	2.82E-04	1.93E-02	4.13E+00
470	3.24E+00	9.29E+01	8.96E-02	2.33E-04	2.18E-02	3.76E+00
480	3.57E+00	9.29E+01	7.89E-02	1.92E-04	2.46E-02	3.41E+00
490	3.93E+00	9.29E+01	6.94E-02	1.59E-04	2.77E-02	3.10E+00
500	4.32E+00	9.28E+01	6.10E-02	1.31E-04	3.12E-02	2.81E+00
510	4.74E+00	9.26E+01	5.36E-02	1.08E-04	3.51E-02	2.55E+00
520	5.20E+00	9.24E+01	4.71E-02	8.90E-05	3.95E-02	2.32E+00
530	5.71E+00	9.21E+01	4.14E-02	7.33E-05	4.43E-02	2.10E+00
540	6.25E+00	9.18E+01	3.63E-02	6.05E-05	4.97E-02	1.90E+00
550	6.84E+00	9.14E+01	3.19E-02	4.98E-05	5.56E-02	1.72E+00
560	7.47E+00	9.09E+01	2.80E-02	4.11E-05	6.23E-02	1.56E+00
570	8.16E+00	9.03E+01	2.45E-02	3.39E-05	6.96E-02	1.41E+00
580	8.90E+00	8.97E+01	2.15E-02	2.79E-05	7.77E-02	1.28E+00
590	9.69E+00	8.90E+01	1.89E-02	2.30E-05	8.66E-02	1.15E+00
600	1.05E+01	8.83E+01	1.65E-02	1.89E-05	9.65E-02	1.01E+00

x, km	$\text{He/S}, \%$	$\text{O/S}, \%$	$\text{O}_2/\text{S}, \%$	$\text{Ar/S}, \%$	$\text{H/S}, \%$	$\text{N}_2/\text{S}, \%$
610	1.15E+01	8.75E+01	1.45E-02	1.56E-05	1.07E-01	9.42E-01
620	1.24E+01	8.66E+01	1.27E-02	1.28E-05	1.19E-01	8.50E-01
630	1.35E+01	8.56E+01	1.11E-02	1.05E-05	1.32E-01	7.67E-01
640	1.46E+01	8.45E+01	9.67E-03	8.65E-06	1.47E-01	6.91E-01
650	1.58E+01	8.34E+01	8.44E-03	7.10E-06	1.62E-01	6.22E-01
660	1.71E+01	8.22E+01	7.36E-03	5.83E-06	1.79E-01	5.59E-01
670	1.84E+01	8.09E+01	6.42E-03	4.78E-06	1.98E-01	5.02E-01
680	1.98E+01	7.95E+01	5.59E-03	3.92E-06	2.18E-01	4.51E-01
690	2.13E+01	7.81E+01	4.86E-03	3.21E-06	2.39E-01	4.04E-01
700	2.28E+01	7.65E+01	4.23E-03	2.63E-06	2.63E-01	3.62E-01
710	2.45E+01	7.49E+01	3.67E-03	2.15E-06	2.88E-01	3.24E-01
720	2.62E+01	7.32E+01	3.18E-03	1.75E-06	3.15E-01	2.89E-01
730	2.79E+01	7.15E+01	2.75E-03	1.43E-06	3.44E-01	2.58E-01
740	2.97E+01	6.96E+01	2.38E-03	1.17E-06	3.74E-01	2.30E-01
750	3.16E+01	6.77E+01	2.06E-03	9.49E-07	4.07E-01	2.05E-01
760	3.36E+01	6.58E+01	1.78E-03	7.72E-07	4.42E-01	1.82E-01
770	3.56E+01	6.38E+01	1.53E-03	6.27E-07	4.78E-01	1.61E-01
780	3.76E+01	6.17E+01	1.32E-03	5.08E-07	5.17E-01	1.43E-01
790	3.97E+01	5.96E+01	1.13E-03	4.12E-07	5.58E-01	1.27E-01
800	4.18E+01	5.75E+01	9.70E-04	3.33E-07	6.00E-01	1.12E-01

D-266; LAT-80; LON-45; LT-12; F-200; FAV-200; A_p -3; UT-9

80	5.44E-04	1.21E-03	2.08E+01	9.33E-01	1.39E-05	7.83E+01
90	6.03E-04	3.08E-01	2.04E+01	9.15E-01	8.58E-05	7.84E+01
100	9.52E-04	3.45E+00	1.83E+01	7.98E-01	1.34E-04	7.75E+01
110	2.39E-03	1.01E+01	1.41E+01	5.75E-01	2.77E-04	7.53E+01
120	5.97E-03	1.75E+00	1.00E+01	3.92E-01	4.50E-04	7.20E+01
130	1.15E-02	2.33E+01	7.79E+00	2.90E-01	5.14E-04	6.86E+01
140	1.83E-03	2.78E+01	6.62E+00	2.27E-01	4.92E-04	6.53E+01
150	2.65E-02	3.16E+01	5.88E+00	1.83E-01	4.59E-04	6.23E+01
160	3.62E-02	3.51E+01	5.31E+00	1.50E-01	4.43E-04	5.94E+01
170	4.74E-02	3.84E+01	4.82E+00	1.24E-01	4.50E-04	5.66E+01
180	6.01E-02	4.15E+01	4.39E+00	1.04E-01	4.81E-04	5.39E+01
190	7.53E-02	4.46E+01	4.00E+00	8.72E-02	5.35E-04	5.12E+01
200	9.24E-02	4.76E+01	3.65E+00	7.34E-02	6.13E-04	4.86E+01
210	1.12E-01	5.04E+01	3.32E+00	6.19E-02	7.15E-04	4.61E+01
220	1.34E-01	5.33E+01	3.02E+00	5.22E-02	8.43E-04	4.35E+01
230	1.59E-01	5.60E+01	2.75E+00	4.41E-02	9.99E-04	4.10E+01
240	1.87E-01	5.87E+01	2.49E+00	3.72E-02	1.19E-03	3.86E+01
250	2.19E-01	6.12E+01	2.26E+00	3.14E-02	1.41E-03	3.63E+01
260	2.55E-01	6.37E+01	2.04E+00	2.64E-02	1.67E-03	3.40E+01
270	2.95E-01	6.61E+01	1.84E+00	2.23E-02	1.97E-03	3.18E+01
280	3.39E-01	6.83E+01	1.66E+00	1.87E-02	2.32E-03	2.97E+01
290	3.89E-01	7.05E+01	1.50E+00	1.57E-02	2.73E-03	2.76E+01
300	4.45E-01	7.25E+01	1.34E+00	1.32E-02	3.19E-03	2.57E+01

Продолжение табл. 12

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	5.08E-01	7.44E+01	1.21E+00	1.11E-02	3.73E-03	2.39E+01
320	5.76E-01	7.62E+01	1.08E+00	9.28E-03	4.34E-03	2.21E+01
330	6.52E-01	7.79E+01	9.68E-01	7.76E-03	5.03E-03	2.05E+01
340	7.36E-01	7.95E+01	8.64E-01	6.48E-03	5.82E-03	1.89E+01
350	8.29E-01	8.10E+01	7.71E-01	5.41E-03	6.72E-03	1.74E+01
360	9.31E-01	8.23E+01	6.87E-01	4.51E-03	7.74E-03	1.60E+01
370	1.04E+00	8.36E+01	6.11E-01	3.76E-03	8.89E-03	1.47E+01
380	1.17E+00	8.47E+01	5.43E-01	3.13E-03	1.02E-02	1.35E+01
390	1.30E+00	8.58E+01	4.82E-01	2.60E-03	1.17E-02	1.24E+01
400	1.45E+00	8.67E+01	4.28E-01	2.16E-03	1.33E-02	1.14E+01
410	1.62E+00	8.75E+01	3.80E-01	1.80E-03	1.52E-02	1.04E+01
420	1.80E+00	8.83E+01	3.36E-01	1.49E-03	1.73E-02	9.55E+00
430	2.00E+00	8.89E+01	2.98E-01	1.24E-03	1.97E-02	8.74E+00
440	2.21E+00	8.95E+01	2.64E-01	1.03E-03	2.24E-02	7.98E+00
450	2.45E+00	9.00E+01	2.33E-01	8.54E-04	2.53E-02	7.29E+00
460	2.71E+00	9.04E+01	2.06E-01	7.08E-04	2.87E-02	6.65E+00
470	2.99E+00	9.07E+01	1.82E-01	5.87E-04	3.25E-02	6.07E+00
480	3.30E+00	9.10E+01	1.61E-01	4.87E-04	3.67E-02	5.53E+00
490	3.63E+00	9.11E+01	1.42E-01	4.03E-04	4.14E-02	5.04E+00
500	4.00E+00	9.12E+01	1.25E-01	3.34E-04	4.66E-02	4.59E+00
510	4.39E+00	9.13E+01	1.10E-01	2.77E-04	5.25E-02	4.18E+00
520	4.83E+00	9.12E+01	9.74E-02	2.29E-04	5.90E-02	3.80E+00
530	5.29E+00	9.11E+01	8.58E-02	1.90E-04	6.62E-02	3.46E+00
540	5.80E+00	9.09E+01	7.56E-02	1.57E-04	7.43E-02	3.14E+00
550	6.35E+00	9.06E+01	6.66E-02	1.30E-04	8.32E-02	2.85E+00
560	6.94E+00	9.03E+01	5.86E-02	1.07E-04	9.32E-02	2.59E+00
570	7.58E+00	8.99E+01	5.16E-02	8.88E-05	1.04E-01	2.35E+00
580	8.27E+00	8.94E+01	4.53E-02	7.34E-05	1.16E-01	2.13E+00
590	9.02E+00	8.89E+01	3.98E-02	6.07E-05	1.30E-01	1.93E+00
600	9.82E+00	8.83E+01	3.50E-02	5.02E-05	1.44E-01	1.75E+00
610	1.07E+01	8.76E+01	3.07E-02	4.14E-05	1.61E-01	1.58E+00
620	1.16E+01	8.68E+01	2.70E-02	3.42E-05	1.79E-01	1.43E+00
630	1.26E+01	8.59E+01	2.36E-02	2.82E-05	1.98E-01	1.29E+00
640	1.36E+01	8.50E+01	2.07E-02	2.33E-05	2.19E-01	1.17E+00
650	1.47E+01	8.40E+01	1.81E-02	1.92E-05	2.43E-01	1.06E+00
660	1.59E+01	8.29E+01	1.59E-02	1.58E-05	2.68E-01	9.51E-01
670	1.72E+01	8.17E+01	1.39E-02	1.30E-05	2.96E-01	8.57E-01
680	1.85E+01	8.04E+01	1.21E-02	1.07E-05	3.26E-01	7.71E-01
690	1.99E+01	7.91E+01	1.06E-02	8.79E-06	3.59E-01	6.93E-01
700	2.13E+01	7.76E+01	9.21E-03	7.22E-06	3.94E-01	6.23E-01
710	2.29E+01	7.61E+01	8.02E-03	5.93E-06	4.32E-01	5.59E-01
720	2.45E+01	7.45E+01	6.98E-03	4.86E-06	4.72E-01	5.00E-01
730	2.62E+01	7.29E+01	6.06E-03	3.98E-06	5.16E-01	4.48E-01
740	2.79E+01	7.11E+01	5.26E-03	3.26E-06	5.62E-01	4.00E-01
750	2.97E+01	6.93E+01	4.56E-03	2.66E-06	6.12E-01	3.57E-01
760	3.15E+01	6.75E+01	3.95E-03	2.17E-06	6.64E-01	3.18E-01
770	3.34E+01	6.56E+01	3.41E-03	1.77E-06	7.20E-01	2.83E-01
780	3.54E+01	6.36E+01	2.94E-03	1.44E-06	7.79E-01	2.52E-01
790	3.74E+01	6.15E+01	2.54E-03	1.17E-06	8.41E-01	2.23E-01
800	3.94E+01	5.95E+01	2.18E-03	9.53E-07	9.06E-01	1.98E-01

Широтные вариации состава при низкой солнечной активности для зимнего периода в северном и летнего в южном полушариях

z , км	He/S_e , %	O/S_e , %	O_2/S_e , %	Ar/S_e , %	H/S_e , %	N_2/S_e , %
$D=1$; $LAT=0$; $LON=45$; $LT=12$; $F=70$; $F_{\Delta V}=70$; $AP=100$; $UT=9$						
80	5.53E-04	1.17E-03	2.08E+01	9.21E-01	1.77E-05	7.83E+01
90	6.13E-04	2.97E-01	2.04E+01	8.95E-01	1.18E-04	7.84E+01
100	9.53E-04	3.29E+00	1.84E+01	7.78E-01	1.93E-04	7.76E+01
110	2.51E-03	1.00E+01	1.40E+01	5.28E-01	4.88E-04	7.51E+01
120	7.13E-03	1.80E+01	9.90E+00	3.37E-01	1.07E-03	7.18E+01
130	1.32E-02	2.42E+01	7.60E+00	2.38E-01	1.44E-03	6.79E+01
140	2.11E-02	2.94E+01	6.34E+00	1.75E-01	1.66E-03	6.41E+01
150	3.18E-02	3.41E+01	5.49E+00	1.32E-01	1.85E-03	6.03E+01
160	4.54E-02	3.85E+01	4.81E+00	1.02E-01	2.09E-03	5.65E+01
170	6.26E-02	4.28E+01	4.23E+00	7.90E-02	2.44E-03	5.28E+01
180	8.39E-02	4.70E+01	3.71E+00	6.17E-02	2.92E-03	4.92E+01
190	1.10E-01	5.11E+01	3.25E+00	4.82E-02	3.59E-03	4.55E+01
200	1.42E-01	5.50E+01	2.83E+00	3.77E-02	4.49E-03	4.20E+01
210	1.80E-01	5.89E+01	2.46E+00	2.95E-02	5.65E-03	3.85E+01
220	2.27E-01	6.25E+01	2.13E+00	2.30E-02	7.15E-03	3.51E+01
230	2.82E-01	6.60E+01	1.84E+00	1.78E-02	9.01E-03	3.19E+01
240	3.47E-01	6.93E+01	1.58E+00	1.38E-02	1.14E-02	2.88E+01
250	4.24E-01	7.23E+01	1.35E+00	1.07E-02	1.44E-02	2.59E+01
260	5.15E-01	7.51E+01	1.15E+00	8.22E-03	1.80E-02	2.32E+01
270	6.21E-01	7.77E+01	9.75E-01	6.31E-03	2.25E-02	2.07E+01
280	7.45E-01	8.00E+01	8.24E-01	4.83E-03	2.79E-02	1.84E+01
290	8.89E-01	8.21E+01	6.95E-01	3.69E-03	3.45E-02	1.63E+01
300	1.06E+00	8.39E+01	5.84E-01	2.81E-03	4.24E-02	1.41E+01
310	1.26E+00	8.55E+01	4.92E-01	2.15E-03	5.23E-02	1.27E+01
320	1.48E+00	8.69E+01	4.11E-01	1.63E-03	6.39E-02	1.12E+01
330	1.74E+00	8.81E+01	3.43E-01	1.23E-03	7.77E-02	9.78E+00
340	2.03E+00	8.90E+01	2.86E-01	9.30E-04	9.42E-02	8.55E+00
350	2.37E+00	8.98E+01	2.37E-01	7.01E-04	1.14E-01	7.46E+00
360	2.76E+00	9.04E+01	1.97E-01	5.29E-04	1.37E-01	6.50E+00
370	3.20E+00	9.08E+01	1.63E-01	3.98E-04	1.65E-01	5.65E+00
380	3.70E+00	9.11E+01	1.35E-01	2.99E-04	1.99E-01	4.91E+00
390	4.28E+00	9.11E+01	1.12E-01	2.25E-04	2.38E-01	4.26E+00
400	4.93E+00	9.10E+01	9.23E-02	1.69E-04	2.84E-01	3.68E+00
410	5.66E+00	9.07E+01	7.61E-02	1.27E-04	3.38E-01	3.19E+00
420	6.50E+00	9.03E+01	6.26E-02	9.48E-05	4.02E-01	2.75E+00
430	7.43E+00	8.97E+01	5.15E-02	7.09E-05	4.76E-01	2.37E+00
440	8.48E+00	8.89E+01	4.23E-02	5.30E-05	5.63E-01	2.04E+00
450	9.66E+00	8.79E+01	3.47E-02	3.96E-05	6.64E-01	1.75E+00
460	1.10E+01	8.67E+01	2.84E-02	2.95E-05	7.81E-01	1.50E+00
470	1.24E+01	8.54E+01	2.32E-02	2.19E-05	9.15E-01	1.29E+00
480	1.40E+01	8.38E+01	1.89E-02	1.63E-05	1.07E+00	1.10E+00
490	1.58E+01	8.20E+01	1.54E-02	1.21E-05	1.25E+00	9.36E-01
500	1.77E+01	8.01E+01	1.25E-02	8.93E-06	1.45E+00	7.95E-01

z, км	He/S, %	O/S, %	C _H /S, %	F/S, %	H/S, %	N ₂ /S, %
510	1.97E+01	7.79E+01	1.01E-02	6.59E-06	1.67E+00	6.73E-01
520	2.20E+01	7.55E+01	8.13E-03	4.85E-06	1.93E+00	5.69E-01
530	2.44E+01	7.29E+01	6.54E-03	3.56E-06	2.21E+00	4.79E-01
540	2.69E+01	7.02E+01	5.24E-03	2.60E-06	2.52E+00	4.02E-01
550	2.95E+01	6.73E+01	4.19E-03	1.90E-06	2.87E+00	3.36E-01
560	3.23E+01	6.42E+01	3.33E-03	1.38E-06	3.25E+00	2.80E-01
570	3.51E+01	6.10E+01	2.64E-03	9.98E-07	3.66E+00	2.32E-01
580	3.81E+01	5.77E+01	2.08E-03	7.20E-07	4.10E+00	1.91E-01
590	4.10E+01	5.43E+01	1.64E-03	5.17E-07	4.56E+00	1.57E-01
600	4.40E+01	5.09E+01	1.28E-03	3.70E-07	5.06E+00	1.29E-01
610	4.69E+01	4.74E+01	1.00E-03	2.64E-07	5.58E+00	1.05E-01
620	4.98E+01	4.40E+01	7.76E-04	1.87E-07	6.13E+00	8.54E-02
630	5.26E+01	4.07E+01	6.00E-04	1.32E-07	6.69E+00	6.90E-02
640	5.52E+01	3.74E+01	4.63E-04	9.34E-08	7.27E+00	5.56E-02
650	5.78E+01	3.43E+01	3.55E-04	6.56E-08	7.86E+00	4.46E-02
660	6.02E+01	3.13E+01	2.71E-04	4.59E-08	8.47E+00	3.56E-02
670	6.25E+01	2.84E+01	2.07E-04	3.21E-08	9.08E+00	2.84E-02
680	6.45E+01	2.58E+01	1.57E-04	2.23E-08	9.69E+00	2.25E-02
690	6.64E+01	2.33E+01	1.19E-04	1.55E-08	1.03E+01	1.78E-02
700	6.81E+01	2.09E+01	9.09E-05	1.07E-08	1.09E+01	1.41E-02
710	6.97E+01	1.88E+01	6.79E-05	7.42E-09	1.15E+01	1.11E-02
720	7.10E+01	1.68E+01	5.11E-05	5.12E-09	1.22E+01	8.72E-03
730	7.22E+01	1.50E+01	3.84E-05	3.52E-09	1.28E+01	6.84E-03
740	7.32E+01	1.34E+01	2.88E-05	2.42E-09	1.34E+01	5.35E-03
750	7.41E+01	1.19E+01	2.15E-05	1.66E-09	1.40E+01	4.18E-03
760	7.49E+01	1.06E+01	1.61E-05	1.14E-09	1.46E+01	3.27E-03
770	7.55E+01	9.36E+00	1.20E-05	7.81E-10	1.52E+01	2.55E-03
780	7.59E+01	8.29E+00	8.98E-06	5.37E-10	1.58E+01	1.98E-03
790	7.63E+01	7.33E+00	6.70E-06	3.68E-10	1.64E+01	1.54E-03
800	7.66E+01	6.48E+00	5.00E-06	2.52E-10	1.70E+01	1.20E-03

D-1; LAT-45; LON-45; LT-12; F-70; FAV-70; A_p-100; UT1-9

80	5.41E-04	1.29E-03	2.09E+01	8.61E-01	1.73E-05	7.83E+01
90	6.04E-04	3.31E-01	2.04E+01	7.97E-01	1.19E-04	7.84E+01
100	9.50E-04	3.73E+00	1.85E+01	6.37E-01	2.07E-04	7.71E+01
110	2.31E-03	1.07E+01	1.47E+01	4.13E-01	4.69E-04	7.42E+01
120	6.02E-03	1.80E+01	1.11E+01	2.56E-01	8.04E-04	7.07E+01
130	1.74E-02	2.42E+01	8.77E+00	1.64E-01	1.04E-03	6.69E+01
140	3.84E-02	2.96E+01	7.36E+00	1.09E-01	1.21E-03	6.29E+01
150	6.16E-02	3.48E+01	6.33E+00	7.53E-02	1.38E-03	5.87E+01
160	8.96E-02	3.99E+01	5.47E+00	5.37E-02	1.59E-03	5.45E+01
170	1.25E-01	4.49E+01	4.72E+00	3.92E-02	1.90E-03	5.02E+01
180	1.70E-01	4.98E+01	4.05E+00	2.90E-02	2.33E-03	4.59E+01
190	2.26E-01	5.46E+01	3.45E+00	2.15E-02	2.93E-03	4.17E+01
200	2.95E-01	5.92E+01	2.93E+00	1.61E-02	3.73E-03	3.76E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	3.80E-01	6.35E+01	2.47E+00	1.20E-02	4.79E-03	3.36E+01
220	4.83E-01	6.75E+01	2.07E+00	8.88E-03	6.18E-03	2.99E+01
230	6.08E-01	7.13E+01	1.72E+00	6.57E-03	7.96E-03	2.64E+01
240	7.58E-01	7.46E+01	1.43E+00	4.84E-03	1.02E-02	2.32E+01
250	9.38E-01	7.76E+01	1.18E+00	3.55E-03	1.31E-02	2.03E+01
260	1.15E+00	8.02E+01	9.67E-01	2.60E-03	1.67E-02	1.76E+01
270	1.41E+00	8.25E+01	7.91E-01	1.90E-03	2.12E-02	1.53E+01
280	1.71E+00	8.45E+01	6.44E-01	1.38E-03	2.68E-02	1.32E+01
290	2.06E+00	8.61E+01	5.23E-01	1.00E-03	3.37E-02	1.13E+01
300	2.48E+00	8.74E+01	4.23E-01	7.23E-04	4.22E-02	9.68E+00
310	2.96E+00	8.84E+01	3.41E-01	5.21E-04	5.25E-02	8.25E+00
320	3.53E+00	8.91E+01	2.75E-01	3.75E-04	6.53E-02	7.03E+00
330	4.20E+00	8.95E+01	2.21E-01	2.70E-04	8.09E-02	6.98E+00
340	4.97E+00	8.97E+01	1.77E-01	1.94E-04	9.98E-02	5.07E+00
350	5.86E+00	8.96E+01	1.42E-01	1.39E-04	1.23E-01	4.28E+00
360	6.89E+00	8.92E+01	1.13E-01	9.90E-05	1.50E-01	3.62E+00
370	8.08E+00	8.86E+01	9.01E-02	7.06E-05	1.84E-01	3.04E+00
380	9.43E+00	8.77E+01	7.16E-02	5.03E-05	2.24E-01	2.55E+00
390	1.10E+01	8.66E+01	5.68E-02	3.57E-05	2.71E-01	2.14E+00
400	1.27E+01	8.51E+01	4.49E-02	2.53E-05	3.27E-01	1.79E+00
410	1.47E+01	8.34E+01	3.54E-02	1.79E-05	3.93E-01	1.49E+00
420	1.68E+01	8.14E+01	2.78E-02	1.26E-05	4.70E-01	1.23E+00
430	1.93E+01	7.91E+01	2.17E-02	8.85E-06	5.60E-01	1.02E+00
440	2.19E+01	7.66E+01	1.69E-02	6.20E-06	6.63E-01	8.38E-01
450	2.48E+01	7.37E+01	1.32E-02	4.32E-06	7.82E-01	6.86E-01
460	2.79E+01	7.06E+01	1.02E-02	3.00E-06	9.16E-01	5.60E-01
470	3.12E+01	6.73E+01	7.82E-03	2.07E-06	1.07E+00	4.54E-01
480	3.47E+01	6.37E+01	5.98E-03	1.42E-06	1.23E+00	3.66E-01
490	3.83E+01	6.00E+01	4.55E-03	9.75E-07	1.42E+00	2.94E-01
500	4.20E+01	5.61E+01	3.45E-03	6.63E-07	1.62E+00	2.35E-01
510	4.58E+01	5.22E+01	2.59E-03	4.49E-07	1.83E+00	1.86E-01
520	4.96E+01	4.82E+01	1.94E-03	3.02E-07	2.07E+00	1.47E-01
530	5.33E+01	4.43E+01	1.44E-03	2.03E-07	2.31E+00	1.15E-01
540	5.69E+01	4.04E+01	1.07E-03	1.35E-07	2.57E+00	8.98E-02
550	6.04E+01	3.67E+01	7.87E-04	8.95E-08	2.83E+00	6.97E-02
560	6.37E+01	3.31E+01	5.76E-04	5.91E-08	3.11E+00	5.38E-02
570	6.69E+01	2.97E+01	4.20E-04	3.88E-08	3.39E+00	4.13E-02
580	6.98E+01	2.65E+01	3.05E-04	2.54E-08	3.68E+00	3.16E-02
590	7.24E+01	2.36E+01	2.20E-04	1.66E-08	3.97E+00	2.40E-02
600	7.48E+01	2.09E+01	1.59E-04	1.08E-08	4.26E+00	1.82E-02
610	7.70E+01	1.84E+01	1.14E-04	6.97E-09	4.56E+00	1.38E-02
620	7.89E+01	1.62E+01	8.17E-05	4.51E-09	4.86E+00	1.04E-02
630	8.07E+01	1.42E+01	5.84E-05	2.91E-09	5.16E+00	7.81E-03
640	8.21E+01	1.24E+01	4.16E-05	1.87E-09	5.45E+00	5.86E-03
650	8.34E+01	1.08E+01	2.96E-05	1.20E-09	5.76E+00	4.39E-03
660	8.45E+01	9.41E+00	2.10E-05	7.73E-10	6.06E+00	3.28E-03
670	8.55E+01	8.18E+00	1.49E-05	4.96E-10	6.36E+00	2.45E-03
680	8.62E+01	7.10E+00	1.06E-05	3.18E-10	6.67E+00	1.83E-03
690	8.69E+01	6.15E+00	7.51E-06	2.04E-10	6.97E+00	1.36E-03
700	8.74E+01	5.32E+00	5.32E-06	1.31E-10	7.28E+00	1.01E-03

Продолжение табл. 13

z , км	He/S, %	O/S, %	Os/S, %	N/S, %	H/S, %	Na/S, %
710	8.78E+01	4.60E+00	3.77E-06	8.38E-11	7.60E+00	7.55E-04
720	8.81E+01	3.98E+00	2.67E-06	5.37E-11	7.91E+00	5.62E-04
730	8.83E+01	3.44E+00	1.89E-06	3.45E-11	8.23E+00	4.18E-04
740	8.85E+01	2.97E+00	1.34E-06	2.21E-11	8.56E+00	3.11E-04
750	8.86E+01	2.56E+00	9.49E-07	1.42E-11	8.89E+00	2.32E-04
760	8.86E+01	2.21E+00	6.72E-07	9.11E-12	9.23E+00	1.73E-04
770	8.85E+01	1.91E+00	4.77E-07	5.85E-12	9.57E+00	1.28E-04
780	8.84E+01	1.64E+00	3.38E-07	3.76E-12	9.92E+00	9.57E-05
790	8.83E+01	1.42E+00	2.40E-07	2.42E-12	1.03E+01	7.13E-05
800	8.81E+01	1.22E+00	1.70E-07	1.56E-12	1.06E+01	5.31E-05
D-1; LAT-80; LON-45; LT-12; F-70; FAV-70; A _p -100; UT1-9						
80	5.35E-04	1.04E-03	2.09E+01	9.71E-01	1.58E-05	7.81E+01
90	5.89E-04	2.59E-01	2.07E+01	9.69E-01	1.04E-04	7.81E+01
100	9.45E-04	2.87E+00	1.95E+01	8.61E-01	1.85E-04	7.68E+01
110	2.06E-03	7.62E+00	1.75E+01	6.97E-01	3.49E-04	7.42E+01
120	4.41E-03	1.18E+01	1.58E+01	5.73E-01	4.62E-04	7.19E+01
130	1.17E-02	1.51E+01	1.44E+01	4.81E-01	5.35E-04	7.01E+01
140	2.46E-02	1.79E+01	1.32E+01	4.10E-01	5.75E-04	6.84E+01
150	3.88E-02	2.07E+01	1.21E+01	3.49E-01	6.16E-04	6.68E+01
160	5.61E-02	2.35E+01	1.11E+01	2.95E-01	6.82E-04	6.51E+01
170	7.82E-02	2.63E+01	1.02E+01	2.48E-01	7.86E-04	6.32E+01
180	1.06E-01	2.92E+01	9.38E+00	2.07E-01	9.43E-04	6.11E+01
190	1.42E-01	3.22E+01	8.59E+00	1.72E-01	1.16E-03	5.89E+01
200	1.86E-01	3.53E+01	7.84E+00	1.43E-01	1.47E-03	5.66E+01
210	2.40E-01	3.85E+01	7.13E+00	1.18E-01	1.87E-03	5.40E+01
220	3.08E-01	4.17E+01	6.47E+00	9.73E-02	2.40E-03	5.14E+01
230	3.90E-01	4.50E+01	5.83E+00	7.99E-02	3.07E-03	4.87E+01
240	4.89E-01	4.84E+01	5.24E+00	6.54E-02	3.94E-03	4.58E+01
250	6.09E-01	5.17E+01	4.69E+00	5.33E-02	5.02E-03	4.30E+01
260	7.51E-01	5.49E+01	4.18E+00	4.33E-02	6.37E-03	4.01E+01
270	9.19E-01	5.81E+01	3.70E+00	3.50E-02	8.03E-03	3.72E+01
280	1.12E+00	6.12E+01	3.27E+00	2.82E-02	1.01E-02	3.44E+01
290	1.35E+00	6.42E+01	2.87E+00	2.26E-02	1.26E-02	3.16E+01
300	1.62E+00	6.69E+01	2.51E+00	1.81E-02	1.56E-02	2.89E+01
310	1.95E+00	6.92E+01	2.21E+00	1.46E-02	1.94E-02	2.66E+01
320	2.31E+00	7.16E+01	1.92E+00	1.15E-02	2.37E-02	2.41E+01
330	2.72E+00	7.38E+01	1.65E+00	9.12E-03	2.89E-02	2.17E+01
340	3.19E+00	7.58E+01	1.42E+00	7.18E-03	3.50E-02	1.95E+01
350	3.73E+00	7.75E+01	1.22E+00	5.63E-03	4.23E-02	1.75E+01
360	4.33E+00	7.89E+01	1.04E+00	4.41E-03	5.08E-02	1.56E+01
370	5.01E+00	8.01E+01	8.87E-01	3.44E-03	6.07E-02	1.39E+01
380	5.78E+00	8.10E+01	7.54E-01	2.68E-03	7.23E-02	1.24E+01
390	6.64E+00	8.17E+01	6.39E-01	2.08E-03	8.58E-02	1.09E+01
400	7.60E+00	8.21E+01	5.40E-01	1.61E-03	1.01E-01	9.65E+00

$x, \text{ км}$	$\text{He/S, \%}$	$\text{O/S, \%}$	$\text{O}_2/\text{S, \%}$	$\text{Ar/S, \%}$	$\text{H/S, \%}$	$\text{N}_2/\text{S, \%}$
410	8.67E+00	8.23E+01	4.55E-01	1.25E-03	1.20E-01	8.49E+00
420	9.85E+00	8.22E+01	3.83E-01	9.63E-04	1.40E-01	7.46E+00
430	1.12E+01	8.18E+01	3.21E-01	7.24E-04	1.64E-01	6.53E+00
440	1.26E+01	8.12E+01	2.69E-01	5.70E-04	1.91E-01	5.70E+00
450	1.42E+01	8.04E+01	2.24E-01	4.37E-04	2.22E-01	4.97E+00
460	1.59E+01	7.94E+01	1.87E-01	3.34E-04	2.57E-01	4.31E+00
470	1.77E+01	7.81E+01	1.55E-01	2.55E-04	2.97E-01	3.74E+00
480	1.98E+01	7.66E+01	1.28E-01	1.94E-04	3.41E-01	3.23E+00
490	2.19E+01	7.48E+01	1.06E-01	1.47E-04	3.90E-01	2.78E+00
500	2.42E+01	7.29E+01	8.73E-02	1.11E-04	4.45E-01	2.39E+00
510	2.66E+01	7.07E+01	7.17E-02	8.41E-05	5.05E-01	2.04E+00
520	2.92E+01	6.84E+01	5.87E-02	6.33E-05	5.71E-01	1.74E+00
530	3.19E+01	6.59E+01	4.79E-02	4.75E-05	6.44E-01	1.48E+00
540	3.47E+01	6.33E+01	3.89E-02	3.56E-05	7.22E-01	1.26E+00
550	3.76E+01	6.05E+01	3.13E-02	2.65E-05	8.07E-01	1.06E+00
560	4.05E+01	5.77E+01	2.55E-02	1.97E-05	8.97E-01	8.94E-01
570	4.35E+01	5.48E+01	2.05E-02	1.46E-05	9.93E-01	7.50E-01
580	4.65E+01	5.18E+01	1.65E-02	1.08E-05	1.10E+00	6.27E-01
590	4.95E+01	4.88E+01	1.32E-02	7.97E-06	1.20E+00	5.22E-01
600	5.25E+01	4.57E+01	1.05E-02	5.85E-06	1.32E+00	4.31E-01
610	5.54E+01	4.28E+01	8.33E-03	4.29E-06	1.43E+00	3.59E-01
620	5.83E+01	3.98E+01	6.60E-03	3.13E-06	1.55E+00	2.96E-01
630	6.11E+01	3.70E+01	5.21E-03	2.28E-06	1.68E+00	2.43E-01
640	6.38E+01	3.42E+01	4.10E-03	1.66E-06	1.80E+00	1.99E-01
650	6.64E+01	3.15E+01	3.22E-03	1.20E-06	1.94E+00	1.63E-01
660	6.88E+01	2.90E+01	2.52E-03	8.66E-07	2.07E+00	1.33E-01
670	7.11E+01	2.66E+01	1.97E-03	6.25E-07	2.20E+00	1.08E-01
680	7.33E+01	2.43E+01	1.53E-03	4.50E-07	2.34E+00	8.76E-02
690	7.53E+01	2.21E+01	1.19E-03	3.23E-07	2.47E+00	7.09E-02
700	7.72E+01	2.02E+01	9.27E-04	2.32E-07	2.61E+00	5.73E-02
710	7.89E+01	1.83E+01	7.18E-04	1.66E-07	2.75E+00	4.62E-02
720	8.05E+01	1.66E+01	5.56E-04	1.19E-07	2.89E+00	3.72E-02
730	8.19E+01	1.50E+01	4.30E-04	8.49E-08	3.03E+00	2.99E-02
740	8.32E+01	1.36E+01	3.32E-04	6.06E-08	3.17E+00	2.40E-02
750	8.44E+01	1.22E+01	2.56E-04	4.32E-08	3.31E+00	1.93E-02
760	8.55E+01	1.10E+01	1.97E-04	3.08E-08	3.45E+00	1.54E-02
770	8.65E+01	9.91E+00	1.52E-04	2.20E-08	3.60E+00	1.24E-02
780	8.73E+01	8.91E+00	1.17E-04	1.57E-08	3.74E+00	9.90E-03
790	8.81E+01	8.01E+00	9.01E-05	1.11E-08	3.88E+00	7.92E-03
800	8.88E+01	7.19E+00	6.93E-05	7.94E-09	4.03E+00	6.33E-03
D 1; LAT—40, LON—45; LT—12; F—70; FAV—70; A_p —100; UT1—9						
80	5.42E-04	9.93E-04	2.08E-01	1.01E+00	1.61E-05	7.81E+01
90	6.05E-04	2.46E-01	2.05E+01	1.03E+00	1.08E-04	7.82E+01
100	9.47E-04	2.68E+00	1.89E+01	9.73E-01	1.77E-04	7.74E+01

Z , ЕМ	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
110	2.29E-03	7.69E+00	1.57E+01	7.80E-01	4.05E-04	7.59E+01
120	4.46E-03	1.30E+01	1.25E+01	6.21E-01	7.29E-04	7.39E+01
130	3.92E-03	1.71E+01	1.05E+01	5.33E-01	9.26E-04	7.19E+01
140	3.85E-03	2.04E+01	9.26E+00	4.70E-01	1.02E-03	6.98E+01
150	5.25E-03	2.33E+01	8.40E+00	4.14E-01	1.09E-03	6.79E+01
160	7.38E-03	2.60E+01	7.70E+00	3.60E-01	1.18E-03	6.59E+01
170	1.01E-02	2.87E+01	7.08E+00	3.10E-01	1.34E-03	6.39E+01
180	1.34E-02	3.13E+01	6.52E+00	2.65E-01	1.56E-03	6.18E+01
190	1.75E-02	3.40E+01	6.00E+00	2.25E-01	1.88E-03	5.97E+01
200	2.25E-02	3.68E+01	5.52E+00	1.90E-01	2.31E-03	5.75E+01
210	2.85E-02	3.95E+01	5.07E+00	1.61E-01	2.86E-03	5.52E+01
220	3.57E-02	4.24E+01	4.65E+00	1.35E-01	3.57E-03	5.28E+01
230	4.42E-02	4.52E+01	4.25E+00	1.14E-01	4.46E-03	5.04E+01
240	5.43E-02	4.81E+01	3.87E+00	9.54E-02	5.57E-03	4.79E+01
250	6.62E-02	5.10E+01	3.52E+00	7.99E-02	6.93E-03	4.53E+01
260	8.01E-02	5.39E+01	3.18E+00	6.67E-02	8.59E-03	4.28E+01
270	9.63E-02	5.68E+01	2.87E+00	5.55E-02	1.06E-02	4.02E+01
280	1.15E-01	5.96E+01	2.58E+00	4.61E-02	1.30E-02	3.76E+01
290	1.37E-01	6.24E+01	2.32E+00	3.81E-02	1.59E-02	3.51E+01
300	1.62E-01	6.50E+01	2.07E+00	3.15E-02	1.92E-02	3.27E+01
310	1.92E-01	6.72E+01	1.87E+00	2.63E-02	2.37E-02	3.07E+01
320	2.25E-01	6.97E+01	1.66E+00	2.16E-02	2.85E-02	2.83E+01
330	2.62E-01	7.21E+01	1.47E+00	1.76E-02	3.42E-02	2.61E+01
340	3.04E-01	7.44E+01	1.30E+00	1.44E-02	4.08E-02	2.39E+01
350	3.51E-01	7.65E+01	1.14E+00	1.17E-02	4.85E-02	2.19E+01
360	4.04E-01	7.85E+01	1.00E+00	9.56E-03	5.75E-02	2.00E+01
370	4.64E-01	8.03E+01	8.81E-01	7.77E-03	6.80E-02	1.82E+01
380	5.32E-01	8.20E+01	7.72E-01	6.30E-03	8.02E-02	1.66E+01
390	6.08E-01	8.35E+01	6.75E-01	5.10E-03	9.43E-02	1.51E+01
400	6.92E-01	8.49E+01	5.89E-01	4.13E-03	1.11E-01	1.37E+01
410	7.87E-01	8.62E+01	5.14E-01	3.34E-03	1.29E-01	1.24E+01
420	8.94E-01	8.73E+01	4.48E-01	2.70E-03	1.51E-01	1.12E+01
430	1.01E+00	8.83E+01	3.89E-01	2.18E-03	1.76E-01	1.01E+01
440	1.14E+00	8.92E+01	3.38E-01	1.75E-03	2.04E-01	9.14E+00
450	1.29E+00	8.99E+01	2.94E-01	1.41E-03	2.37E-01	8.24E+00
460	1.45E+00	9.06E+01	2.55E-01	1.14E-03	2.75E-01	7.42E+00
470	1.64E+00	9.11E+01	2.21E-01	9.16E-04	3.18E-01	6.67E+00
480	1.84E+00	9.16E+01	1.91E-01	7.37E-04	3.67E-01	6.00E+00
490	2.06E+00	9.20E+01	1.66E-01	5.92E-04	4.24E-01	5.39E+00
500	2.31E+00	9.22E+01	1.43E-01	4.76E-04	4.88E-01	4.84E+00
510	2.58E+00	9.24E+01	1.24E-01	3.82E-04	5.61E-01	4.34E+00
520	2.89E+00	9.25E+01	1.07E-01	3.07E-04	6.44E-01	3.89E+00
530	3.22E+00	9.25E+01	9.26E-02	2.47E-04	7.39E-01	3.49E+00
540	3.59E+00	9.24E+01	8.00E-02	1.98E-04	8.46E-01	3.12E+00
550	3.99E+00	9.22E+01	6.90E-02	1.59E-04	9.68E-01	2.80E+00
560	4.44E+00	9.19E+01	5.95E-02	1.27E-04	1.11E+00	2.50E+00
570	4.93E+00	9.15E+01	5.13E-02	1.02E-04	1.26E+00	2.23E+00
580	5.46E+00	9.11E+01	4.42E-02	8.19E-05	1.44E+00	2.00E+00
590	6.05E+00	9.05E+01	3.81E-02	6.56E-05	1.63E+00	1.78E+00
600	6.68E+00	8.98E+01	3.27E-02	5.26E-05	1.85E+00	1.59E+00

$z, \text{ км}$	$\text{He/S, \%}$	$\text{O/S, \%}$	$\text{O}_2/\text{S, \%}$	$\text{Ar/S, \%}$	$\text{H/S, \%}$	$\text{N}_2/\text{S, \%}$
610	7.38E+00	8.91E+01	2.81E-02	4.21E-05	2.10E+00	1.41E+00
620	8.13E+00	8.82E+01	2.42E-02	3.36E-05	2.38E+00	1.26E+00
630	8.94E+00	8.72E+01	2.07E-02	2.69E-05	2.69E+00	1.12E+00
640	9.82E+00	8.61E+01	1.78E-02	2.15E-05	3.03E+00	9.94E-01
650	1.08E+01	8.49E+01	1.52E-02	1.71E-05	3.41E+00	8.81E-01
660	1.18E+01	8.36E+01	1.30E-02	1.36E-05	3.83E+00	7.80E-01
670	1.29E+01	8.21E+01	1.11E-02	1.09E-05	4.29E+00	6.90E-01
680	1.40E+01	8.06E+01	9.47E-03	8.64E-06	4.80E+00	6.09E-01
690	1.52E+01	7.89E+01	8.06E-03	6.86E-06	5.36E+00	5.37E-01
700	1.65E+01	7.70E+01	6.85E-03	5.44E-06	5.96E+00	4.73E-01
710	1.79E+01	7.51E+01	5.81E-03	4.30E-06	6.62E+00	4.15E-01
720	1.93E+01	7.30E+01	4.92E-03	3.40E-06	7.33E+00	3.64E-01
730	2.07E+01	7.09E+01	4.16E-03	2.68E-06	8.10E+00	3.18E-01
740	2.22E+01	6.86E+01	3.51E-03	2.11E-06	8.91E+00	2.78E-01
750	2.38E+01	6.62E+01	2.95E-03	1.66E-06	9.79E+00	2.42E-01
760	2.54E+01	6.37E+01	2.48E-03	1.30E-06	1.07E+01	2.10E-01
770	2.70E+01	6.11E+01	2.07E-03	1.02E-06	1.17E+01	1.82E-01
780	2.86E+01	5.85E+01	1.73E-03	7.93E-07	1.27E+01	1.57E-01
790	3.02E+01	5.59E+01	1.44E-03	6.18E-07	1.38E+01	1.36E-01
800	3.18E+01	5.32E+01	1.20E-03	4.80E-07	1.49E+01	1.17E-01

D-1, LAT--80; LON-45; LT-12; F-70; FAV-70; A_p -100; UT1-9

80	5.41E-04	8.01E-04	2.09E+01	9.96E-01	1.76E-05	7.81E+01
90	5.98E-04	1.93E-01	2.08E+01	1.01E+00	1.20E-04	7.80E+01
100	9.39E-04	2.05E+00	1.99E+01	9.39E-01	2.13E-04	7.71E+01
110	2.04E-03	5.43E-00	1.85E+01	7.78E-01	4.58E-04	7.53E+01
120	2.91E-03	8.34E+00	1.74E+01	6.59E-01	7.22E-04	7.36E+01
130	1.58E-03	1.04E+01	1.64E+01	5.88E-01	9.10E-04	7.26E+01
140	1.15E-03	1.19E+01	1.55E+01	5.38E-01	1.03E-03	7.20E+01
150	1.47E-03	1.32E+01	1.47E+01	4.90E-01	1.14E-03	7.16E+01
160	2.03E-03	1.44E+01	1.39E+01	4.43E-01	1.28E-03	7.12E+01
170	2.77E-03	1.56E+01	1.32E+01	3.95E-01	1.48E-03	7.08E+01
180	3.69E-03	1.69E+01	1.25E+01	3.50E-01	1.76E-03	7.03E+01
190	4.83E-03	1.82E+01	1.19E+01	3.09E-01	2.15E-03	6.97E+01
200	6.23E-03	1.95E+01	1.12E+01	2.71E-01	2.67E-03	6.89E+01
210	7.92E-03	2.10E+01	1.07E+01	2.38E-01	3.35E-03	6.81E+01
220	1.00E-02	2.25E+01	1.01E+01	2.09E-01	4.23E-03	6.71E+01
230	1.25E-02	2.42E+01	9.56E+00	1.83E-01	5.34E-03	6.60E+01
240	1.56E-02	2.60E+01	9.03E+00	1.60E-01	6.74E-03	6.48E+01
250	1.92E-02	2.79E+01	8.51E+00	1.40E-01	8.48E-03	6.34E+01
260	2.35E-02	3.00E+01	8.00E+00	1.22E-01	1.06E-02	6.19E+01
270	2.87E-02	3.21E+01	7.50E+00	1.06E-01	1.33E-02	6.02E+01
280	3.49E-02	3.41E+01	7.02E+00	9.26E-02	1.63E-02	5.85E+01
290	4.21E-02	3.67E+01	6.55E+00	8.03E-02	2.05E-02	5.66E+01
300	5.06E-02	3.91E+01	6.09E+00	6.95E-02	2.53E-02	5.46E+01

z, км	He/S, %	O/S, %	Os/S, %	Ar/S, %	N/S, %	N ₂ /S, %
310	6.14E-02	4.07E+01	5.74E+00	6.09E-02	3.15E-02	5.34E+01
320	7.30E-02	4.34E+01	5.31E+00	5.24E-02	3.84E-02	5.11E+01
330	8.64E-02	4.62E+01	4.89E+00	4.49E-02	4.67E-02	4.88E+01
340	1.02E-01	4.89E+01	4.49E+00	3.84E-02	5.65E-02	4.64E+01
350	1.20E-01	5.16E+01	4.11E+00	3.28E-02	6.82E-02	4.41E+01
360	1.40E-01	5.43E+01	3.76E+00	2.79E-02	8.19E-02	4.17E+01
370	1.63E-01	5.69E+01	3.43E+00	2.37E-02	9.80E-02	3.94E+01
380	1.89E-01	5.95E+01	3.11E+00	2.01E-02	1.17E-01	3.71E+01
390	2.19E-01	6.20E+01	2.82E+00	1.70E-02	1.39E-01	3.48E+01
400	2.53E-01	6.44E+01	2.55E+00	1.44E-02	1.64E-01	3.26E+01
410	2.91E-01	6.68E+01	2.30E+00	1.21E-02	1.94E-01	3.04E+01
420	3.33E-01	6.90E+01	2.07E+00	1.02E-02	2.28E-01	2.84E+01
430	3.81E-01	7.11E+01	1.86E+00	8.15E-03	2.67E-01	2.64E+01
440	4.34E-01	7.31E+01	1.67E+00	7.13E-03	3.13E-01	2.45E+01
450	4.93E-01	7.50E+01	1.49E+00	5.95E-03	3.65E-01	2.26E+01
460	5.59E-01	7.68E+01	1.33E+00	4.97E-03	4.24E-01	2.09E+01
470	6.32E-01	7.84E+01	1.19E+00	4.14E-03	4.92E-01	1.93E+01
480	7.13E-01	7.99E+01	1.06E+00	3.44E-03	5.69E-01	1.78E+01
490	8.03E-01	8.13E+01	9.41E-01	2.86E-03	6.57E-01	1.63E+01
500	9.02E-01	8.25E+01	8.35E-01	2.37E-03	7.57E-01	1.50E+01
510	1.01E+00	8.36E+01	7.40E-01	1.97E-03	8.70E-01	1.37E+01
520	1.13E+00	8.46E+01	6.55E-01	1.63E-03	9.98E-01	1.26E+01
530	1.26E+00	8.55E+01	5.79E-01	1.35E-03	1.14E+00	1.15E+01
540	1.41E+00	8.63E+01	5.11E-01	1.11E-03	1.31E+00	1.05E+01
550	1.57E+00	8.69E+01	4.51E-01	9.18E-04	1.49E+00	9.57E+00
560	1.74E+00	8.74E+01	3.98E-01	7.58E-04	1.70E+00	8.72E+00
570	1.93E+00	8.79E+01	3.50E-01	6.25E-04	1.93E+00	7.94E+00
580	2.14E+00	8.81E+01	3.08E-01	5.15E-04	2.19E+00	7.21E+00
590	2.36E+00	8.83E+01	2.71E-01	4.24E-04	2.48E+00	6.55E+00
600	2.61E+00	8.84E+01	2.38E-01	3.48E-04	2.81E+00	5.94E+00
610	2.88E+00	8.84E+01	2.09E-01	2.86E-04	3.17E+00	5.39E+00
620	3.16E+00	8.82E+01	1.83E-01	2.35E-04	3.58E+00	4.88E+00
630	3.48E+00	8.79E+01	1.60E-01	1.93E-04	4.02E+00	4.41E+00
640	3.81E+00	8.75E+01	1.40E-01	1.58E-04	4.52E+00	3.99E+00
650	4.18E+00	8.70E+01	1.22E-01	1.30E-04	5.07E+00	3.60E+00
660	4.57E+00	8.64E+01	1.07E-01	1.06E-04	5.68E+00	3.25E+00
670	4.98E+00	8.56E+01	9.32E-02	8.69E-05	6.35E+00	2.92E+00
680	5.43E+00	8.48E+01	8.12E-02	7.10E-05	7.09E+00	2.63E+00
690	5.90E+00	8.38E+01	7.06E-02	5.80E-05	7.89E+00	2.36E+00
700	6.40E+00	8.26E+01	6.14E-02	4.73E-05	8.77E+00	2.12E+00
710	6.93E+00	8.14E+01	5.33E-02	3.85E-05	9.73E+00	1.90E+00
720	7.49E+00	8.00E+01	4.61E-02	3.13E-05	1.08E+01	1.69E+00
730	8.08E+00	7.85E+01	3.99E-02	2.54E-05	1.19E+01	1.51E+00
740	8.69E+00	7.68E+01	3.45E-02	2.06E-05	1.31E+01	1.35E+00
750	9.33E+00	7.51E+01	2.97E-02	1.67E-05	1.44E+01	1.20E+00
760	9.99E+00	7.32E+01	2.55E-02	1.35E-05	1.58E+01	1.06E+00
770	1.07E+01	7.12E+01	2.19E-02	1.09E-05	1.72E+01	9.42E-01
780	1.14E+01	6.90E+01	1.88E-02	8.76E-06	1.88E+01	8.33E-01
790	1.21E+01	6.68E+01	1.61E-02	7.04E-06	2.04E+01	7.34E-01
800	1.28E+01	6.45E+01	1.37E-02	5.64E-06	2.21E+01	6.46E-01

Широтные вариации состава при средней солнечной активности для зимнего периода в северном и летнего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-1; LAT -0; LON-45; LT-12; F 150; FAV-150; A _p -100; UT1-9						
80	5.59E-04	1.25E-03	2.08E+01	9.18E-01	1.56E-05	7.83E+01
90	6.15E-04	3.19E-01	2.03E+01	8.93E-01	9.50E-05	7.85E+01
100	9.54E-04	3.56E+00	1.80E+01	7.74E-01	1.42E-04	7.76E+01
110	2.50E-03	1.09E+01	1.33E+01	5.21E-01	3.23E-04	7.53E+01
120	7.24E-03	1.97E+01	8.85E+00	3.29E-01	6.46E-04	7.11E+01
130	1.32E-02	2.62E+01	6.60E+00	2.34E-01	7.43E-04	6.70E+01
140	2.04E-02	3.12E+01	5.48E+00	1.77E-01	7.38E-04	6.31E+01
150	2.94E-02	3.55E+01	4.78E+00	1.37E-01	7.12E-04	5.96E+01
160	4.01E-02	3.94E+01	4.26E+00	1.10E-01	7.07E-04	5.62E+01
170	5.27E-02	4.31E+01	3.81E+00	8.86E-02	7.35E-04	5.29E+01
180	6.72E-02	4.66E+01	3.42E+00	7.23E-02	8.00E-04	4.98E+01
190	8.39E-02	5.00E+01	3.08E+00	5.94E-02	9.02E-04	4.68E+01
200	1.03E-01	5.32E+01	2.77E+00	4.90E-02	1.04E-03	4.39E+01
210	1.25E-01	5.62E+01	2.49E+00	4.05E-02	1.23E-03	4.11E+01
220	1.50E-01	5.92E+01	2.23E+00	3.36E-02	1.45E-03	3.84E+01
230	1.78E-01	6.20E+01	2.00E+00	2.78E-02	1.73E-03	3.58E+01
240	2.09E-01	6.47E+01	1.79E+00	2.30E-02	2.06E-03	3.33E+01
250	2.45E-01	6.72E+01	1.60E+00	1.91E-02	2.45E-03	3.09E+01
260	2.85E-01	6.96E+01	1.43E+00	1.58E-02	2.91E-03	2.86E+01
270	3.30E-01	7.19E+01	1.27E+00	1.31E-02	3.45E-03	2.65E+01
280	3.80E-01	7.41E+01	1.13E+00	1.08E-02	4.07E-03	2.44E+01
290	4.37E-01	7.60E+01	1.01E+00	8.94E-03	4.79E-03	2.25E+01
300	4.99E-01	7.79E+01	8.97E-01	7.38E-03	5.62E-03	2.07E+01
310	5.69E-01	7.96E+01	7.91E-01	6.09E-03	6.57E-03	1.90E+01
320	6.47E-01	8.12E+01	6.99E-01	5.02E-03	7.66E-03	1.74E+01
330	7.33E-01	8.27E+01	6.18E-01	4.13E-03	8.91E-03	1.60E+01
340	8.28E-01	8.40E+01	5.46E-01	3.40E-03	1.03E-02	1.46E+01
350	9.34E-01	8.52E+01	4.81E-01	2.80E-03	1.20E-02	1.33E+01
360	1.05E+00	8.63E+01	4.24E-01	2.30E-03	1.38E-02	1.22E+01
370	1.18E+00	8.73E+01	3.73E-01	1.89E-03	1.59E-02	1.11E+01
380	1.32E+00	8.82E+01	3.28E-01	1.53E-03	1.83E-02	1.01E+01
390	1.48E+00	8.90E+01	2.89E-01	1.27E-03	2.10E-02	9.18E+00
400	1.65E+00	8.97E+01	2.54E-01	1.01E-03	2.41E-02	8.35E+00
410	1.85E+00	9.03E+01	2.23E-01	8.53E-04	2.76E-02	7.58E+00
420	2.06E+00	9.08E+01	1.95E-01	7.01E-04	3.16E-02	6.89E+00
430	2.29E+00	9.13E+01	1.71E-01	5.71E-04	3.60E-02	6.25E+00
440	2.54E+00	9.16E+01	1.50E-01	4.70E-04	4.11E-02	5.66E+00
450	2.82E+00	9.19E+01	1.32E-01	3.85E-04	4.68E-02	5.13E+00
460	3.13E+00	9.21E+01	1.15E-01	3.15E-04	5.32E-02	4.65E+00
470	3.47E+00	9.22E+01	1.01E-01	2.58E-04	6.04E-02	4.21E+00
480	3.83E+00	9.22E+01	8.33E-02	2.11E-04	6.85E-02	3.81E+00
490	4.23E+00	9.22E+01	7.72E-02	1.73E-04	7.76E-02	3.45E+00
500	4.67E+00	9.21E+01	6.75E-02	1.41E-04	8.78E-02	3.11E+00

Продолжение табл. 14

z, км	He/S, %	O/S, %	O ₂ /S, %	A ₂ /S, %	H/S, %	N ₂ /S, %
510	5.15E+00	9.19E+01	5.90E-02	1.16E-04	9.92E-02	2.81E+00
520	5.67E+00	9.16E+01	5.16E-02	9.46E-05	1.12E-01	2.54E+00
530	6.24E+00	9.13E+01	4.50E-02	7.73E-05	1.26E-01	2.29E+00
540	6.86E+00	9.09E+01	3.93E-02	6.32E-05	1.42E-01	2.07E+00
550	7.53E+00	9.04E+01	3.43E-02	5.17E-05	1.60E-01	1.87E+00
560	8.25E+00	8.99E+01	2.99E-02	4.22E-05	1.80E-01	1.68E+00
570	9.03E+00	8.92E+01	2.61E-02	3.45E-05	2.02E-01	1.51E+00
580	9.88E+00	8.85E+01	2.27E-02	2.81E-05	2.26E-01	1.36E+00
590	1.08E+01	8.77E+01	1.98E-02	2.30E-05	2.53E-01	1.22E+00
600	1.18E+01	8.68E+01	1.72E-02	1.87E-05	2.83E-01	1.10E+00
610	1.28E+01	8.59E+01	1.50E-02	1.53E-05	3.15E-01	9.88E-01
620	1.39E+01	8.48E+01	1.30E-02	1.24E-05	3.51E-01	8.86E-01
630	1.51E+01	8.37E+01	1.13E-02	1.01E-05	3.91E-01	7.94E-01
640	1.64E+01	8.24E+01	9.77E-03	8.23E-06	4.34E-01	7.11E-01
650	1.78E+01	8.11E+01	8.47E-03	6.69E-06	4.81E-01	6.36E-01
660	1.92E+01	7.97E+01	7.33E-03	5.44E-06	5.32E-01	5.68E-01
670	2.07E+01	7.82E+01	6.33E-03	4.41E-06	5.88E-01	5.07E-01
680	2.23E+01	7.66E+01	5.47E-03	3.57E-06	6.49E-01	4.52E-01
690	2.40E+01	7.49E+01	4.72E-03	2.89E-06	7.14E-01	4.02E-01
700	2.57E+01	7.31E+01	4.06E-03	2.34E-06	7.84E-01	3.57E-01
710	2.75E+01	7.13E+01	3.49E-03	1.89E-06	8.59E-01	3.17E-01
720	2.94E+01	6.94E+01	3.00E-03	1.53E-06	9.40E-01	2.81E-01
730	3.14E+01	6.73E+01	2.57E-03	1.23E-06	1.03E+00	2.48E-01
740	3.34E+01	6.53E+01	2.20E-03	9.89E-07	1.12E+00	2.19E-01
750	3.54E+01	6.32E+01	1.88E-03	7.95E-07	1.21E+00	1.93E-01
760	3.75E+01	6.10E+01	1.61E-03	6.38E-07	1.32E+00	1.70E-01
770	3.97E+01	5.88E+01	1.37E-03	5.11E-07	1.42E+00	1.50E-01
780	4.18E+01	5.65E+01	1.16E-03	4.09E-07	1.54E+00	1.31E-01
790	4.40E+01	5.42E+01	9.89E-04	3.26E-07	1.65E+00	1.15E-01
800	4.62E+01	5.19E+01	8.38E-04	2.60E-07	1.77E+00	1.00E-01
D—1; LAT—40; LON—45; LT—12; F—150; FAV—150; A _p —100; UT1—9						
80	5.42E-04	1.38E-03	2.08E+01	8.58E-01	1.50E-05	7.83E+01
90	6.04E-04	3.37E-01	2.04E+01	7.95E-01	9.66E-05	7.85E+01
100	9.50E-04	4.06E+00	1.82E+01	6.33E-01	1.55E-04	7.71E+01
110	2.33E-03	1.18E+01	1.38E+01	4.06E-01	3.24E-04	7.39E+01
120	5.93E-03	1.99E+01	9.88E+00	2.50E-01	4.99E-04	7.00E+01
130	1.53E-02	2.63E+01	7.60E+00	1.62E-01	5.62E-04	6.59E+01
140	3.04E-02	3.16E+01	6.35E+00	1.10E-01	5.61E-04	6.19E+01
150	4.58E-02	3.64E+01	5.51E+00	7.83E-02	5.51E-04	5.79E+01
160	6.31E-02	4.10E+01	4.85E+00	5.81E-02	5.59E-04	5.41E+01
170	8.34E-02	4.53E+01	4.27E+00	4.44E-02	5.92E-04	5.03E+01
180	1.07E-01	4.94E+01	3.77E+00	3.46E-02	6.54E-04	4.67E+01
190	1.34E-01	5.33E+01	3.32E+00	2.73E-02	7.49E-04	4.32E+01
200	1.66E-01	5.70E+01	2.93E+00	2.17E-02	8.77E-04	3.99E+01

z, м	He/S,	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
210	2.03E-01	6.06E+01	2.57E+00	1.74E-02	1.04E-03	3.67E+01
220	2.44E-01	6.39E+01	2.26E+00	1.39E-02	1.25E-03	3.36E+01
230	2.92E-01	6.70E+01	1.97E+00	1.11E-02	1.51E-03	3.07E+01
240	3.47E-01	6.99E+01	1.73E+00	8.92E-03	1.81E-03	2.81E+01
250	4.09E-01	7.25E+01	1.51E+00	7.15E-03	2.18E-03	2.55E+01
260	4.79E-01	7.50E+01	1.31E+00	5.72E-03	2.62E-03	2.32E+01
270	5.59E-01	7.73E+01	1.14E+00	4.58E-03	3.14E-03	2.10E+01
280	6.49E-01	7.93E+01	9.90E+00	3.66E-03	3.74E-03	1.90E+01
290	7.50E-01	8.12E+01	8.59E-01	2.93E-03	4.46E-03	1.72E+01
300	8.65E-01	8.29E+01	7.43E-01	2.33E-03	5.29E-03	1.55E+01
310	9.87E-01	8.45E+01	6.39E-01	1.85E-03	6.22E-03	1.39E+01
320	1.13E+00	8.58E+01	5.52E-01	1.48E-03	7.34E-03	1.25E+01
330	1.30E+00	8.70E+01	4.77E-01	1.18E-03	8.65E-03	1.12E+01
340	1.48E+00	8.80E+01	4.11E-01	9.37E-04	1.02E-02	1.01E+01
350	1.68E+00	8.89E+01	3.55E-01	7.46E-04	1.19E-02	9.03E+00
360	1.91E+00	8.97E+01	3.05E-01	5.93E-04	1.40E-02	8.09E+00
370	2.17E+00	9.03E+01	2.63E-01	4.72E-04	1.63E-02	7.24E+00
380	2.45E+00	9.08E+01	2.26E-01	3.75E-04	1.90E-02	6.47E+00
390	2.77E+00	9.12E+01	1.94E-01	2.98E-04	2.21E-02	5.78E+00
400	3.12E+00	9.15E+01	1.66E-01	2.36E-04	2.57E-02	5.16E+00
410	3.52E+00	9.17E+01	1.43E-01	1.88E-04	2.97E-02	4.60E+00
420	3.96E+00	9.18E+01	1.22E-01	1.49E-04	3.44E-02	4.10E+00
430	4.44E+00	9.18E+01	1.05E-01	1.18E-04	3.98E-02	3.65E+00
440	4.98E+00	9.16E+01	8.98E-02	9.36E-05	4.59E-02	3.25E+00
450	5.57E+00	9.14E+01	7.68E-02	7.42E-05	5.29E-02	2.89E+00
460	6.23E+00	9.11E+01	6.57E-02	5.87E-05	6.08E-02	2.56E+00
470	6.95E+00	9.06E+01	5.61E-02	4.65E-05	6.98E-02	2.28E+00
480	7.74E+00	9.01E+01	4.79E-02	3.68E-05	8.01E-02	2.02E+00
490	8.61E+00	8.95E+01	4.09E-02	2.91E-05	9.16E-02	1.79E+00
500	9.57E+00	8.87E+01	3.48E-02	2.30E-05	1.05E-01	1.58E+00
510	1.06E+01	8.78E+01	2.97E-02	1.82E-05	1.19E-01	1.40E+00
520	1.17E+01	8.69E+01	2.52E-02	1.43E-05	1.36E-01	1.24E+00
530	1.30E+01	8.58E+01	2.15E-02	1.13E-05	1.54E-01	1.09E+00
540	1.43E+01	8.45E+01	1.82E-02	8.91E-06	1.75E-01	9.62E-01
550	1.57E+01	8.32E+01	1.54E-02	7.01E-06	1.98E-01	8.47E-01
560	1.73E+01	8.17E+01	1.31E-02	5.51E-06	2.24E-01	7.44E-01
570	1.89E+01	8.01E+01	1.11E-02	4.33E-06	2.52E-01	6.53E-01
580	2.07E+01	7.84E+01	9.33E-03	3.39E-06	2.83E-01	5.72E-01
590	2.26E+01	7.66E+01	7.87E-03	2.66E-06	3.18E-01	5.00E-01
600	2.46E+01	7.46E+01	6.62E-03	2.08E-06	3.55E-01	4.37E-01
610	2.67E+01	7.26E+01	5.56E-03	1.62E-06	3.96E-01	3.80E-01
620	2.88E+01	7.04E+01	4.66E-03	1.26E-06	4.41E-01	3.31E-01
630	3.11E+01	6.81E+01	3.90E-03	9.82E-07	4.89E-01	2.87E-01
640	3.35E+01	6.57E+01	3.25E-03	7.62E-07	5.40E-01	2.48E-01
650	3.59E+01	6.32E+01	2.71E-03	5.91E-07	5.96E-01	2.14E-01
660	3.84E+01	6.07E+01	2.25E-03	4.57E-07	6.55E-01	1.85E-01
670	4.10E+01	5.81E+01	1.87E-03	3.52E-07	7.17E-01	1.59E-01
680	4.36E+01	5.55E+01	1.54E-03	2.71E-07	7.84E-01	1.36E-01
690	4.62E+01	5.28E+01	1.27E-03	2.08E-07	8.53E-01	1.16E-01
700	4.88E+01	5.02E+01	1.05E-03	1.60E-07	9.26E-01	9.92E-02

Продолжение табл. 14

$x, \text{ км}$	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	5.14E+01	4.75E+01	8.61E-04	1.22E-07	1.00E+00	8.44E-02
720	5.40E+01	4.48E+01	7.06E-04	9.32E-08	1.08E+00	7.17E-02
730	5.66E+01	4.22E+01	5.76E-04	7.10E-08	1.16E+00	6.07E-02
740	5.90E+01	3.97E+01	4.70E-04	5.39E-08	1.25E+00	5.13E-02
750	6.15E+01	3.72E+01	3.83E-04	4.09E-08	1.33E+00	4.32E-02
760	6.38E+01	3.47E+01	3.11E-04	3.10E-08	1.42E+00	3.64E-02
770	6.61E+01	3.24E+01	2.52E-04	2.34E-08	1.51E+00	3.05E-02
780	6.83E+01	3.01E+01	2.04E-04	1.77E-08	1.60E+00	2.56E-02
790	7.03E+01	2.80E+01	1.65E-04	1.33E-08	1.69E+00	2.14E-02
800	7.23E+01	2.59E+01	1.33E-04	1.00E-08	1.78E+00	1.79E-02

D-1; LAT-80; LON 45; LT 12; F-150; FAV-150; A_p -100; UT1-9

80	5.37E-04	1.11E-03	2.09E+01	9.68E-01	1.35E-05	7.81E+01
90	5.88E-04	2.78E-01	2.06E+01	9.68E-01	8.25E-05	7.81E+01
100	9.45E-04	3.11E+00	1.91E+01	8.59E-01	1.37E-04	7.69E+01
110	2.12E-03	8.37E+00	1.66E+01	6.90E-01	2.42E-04	7.44E+01
120	4.30E-03	1.30E+01	1.43E+01	5.66E-01	2.87E-04	7.21E+01
130	9.24E-03	1.66E+01	1.27E+01	4.80E-01	2.89E-04	7.02E+01
140	1.66E-02	1.95E+01	1.15E+01	4.15E-01	2.68E-04	6.85E+01
150	2.46E-02	2.22E+01	1.06E+01	3.59E-01	2.49E-04	6.68E+01
160	3.40E-02	2.48E+01	9.83E+00	3.11E-01	2.44E-04	6.50E+01
170	4.54E-02	2.73E+01	9.11E+00	2.68E-01	2.53E-04	6.32E+01
180	5.91E-02	2.99E+01	8.45E+00	2.30E-01	2.76E-04	6.14E+01
190	7.55E-02	3.25E+01	7.83E+00	1.97E-01	3.16E-04	5.94E+01
200	9.50E-02	3.51E+01	7.26E+00	1.68E-01	3.71E-04	5.71E+01
210	1.18E-01	3.78E+01	6.72E+00	1.44E-01	4.45E-04	5.52E+01
220	1.45E-01	4.05E+01	6.20E+00	1.23E-01	5.39E-04	5.30E+01
230	1.76E-01	4.32E+01	5.71E+00	1.05E-01	6.56E-04	5.08E+01
240	2.13E-01	4.59E+01	5.25E+00	8.94E-02	8.01E-04	4.85E+01
250	2.55E-01	4.87E+01	4.81E+00	7.62E-02	9.75E-04	4.62E+01
260	3.04E-01	5.14E+01	4.40E+00	6.46E-02	1.18E-03	4.38E+01
270	3.60E-01	5.41E+01	4.01E+00	5.48E-02	1.43E-03	4.15E+01
280	4.24E-01	5.67E+01	3.65E+00	4.63E-02	1.73E-03	3.91E+01
290	4.97E-01	5.93E+01	3.31E+00	3.91E-02	2.08E-03	3.68E+01
300	5.79E-01	6.18E+01	3.00E+00	3.29E-02	2.48E-03	3.45E+01
310	6.77E-01	6.40E+01	2.72E+00	2.79E-02	2.98E-03	3.25E+01
320	7.82E-01	6.64E+01	2.45E+00	2.34E-02	3.53E-03	3.03E+01
330	9.00E-01	6.87E+01	2.20E+00	1.95E-02	4.17E-03	2.82E+01
340	1.03E+00	7.08E+01	1.97E+00	1.63E-02	4.91E-03	2.62E+01
350	1.18E+00	7.28E+01	1.76E+00	1.36E-02	5.75E-03	2.42E+01
360	1.34E+00	7.47E+01	1.57E+00	1.13E-02	6.73E-03	2.24E+01
370	1.53E+00	7.64E+01	1.40E+00	9.41E-03	7.85E-03	2.07E+01
380	1.73E+00	7.80E+01	1.25E+00	7.80E-03	9.12E-03	1.90E+01
390	1.95E+00	7.95E+01	1.11E+00	6.47E-03	1.06E-02	1.75E+01
400	2.20E+00	8.08E+01	9.80E-01	5.35E-03	1.22E-02	1.60E+01

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
410	2.48E+00	8.20E+01	8.67E-01	4.42E-03	1.41E-02	1.47E+01
420	2.78E+00	8.30E+01	7.67E-01	3.65E-03	1.62E-02	1.34E+01
430	3.11E+00	8.39E+01	6.77E-01	3.01E-03	1.87E-02	1.23E+01
440	3.47E+00	8.47E+01	5.97E-01	2.48E-03	2.14E-02	1.12E+01
450	3.87E+00	8.54E+01	5.25E-01	2.04E-03	2.45E-02	1.02E+01
460	4.31E+00	8.59E+01	4.62E-01	1.68E-03	2.79E-02	9.26E+00
470	4.79E+00	8.64E+01	4.06E-01	1.38E-03	3.18E-02	8.41E+00
480	5.32E+00	8.67E+01	3.57E-01	1.13E-03	3.62E-02	7.64E+00
490	5.89E+00	8.68E+01	3.13E-01	9.30E-04	4.11E-02	6.92E+00
500	6.51E+00	8.69E+01	2.74E-01	7.63E-04	4.66E-02	6.27E+00
510	7.19E+00	8.68E+01	2.40E-01	6.25E-04	5.27E-02	5.68E+00
520	7.92E+00	8.67E+01	2.10E-01	5.12E-04	5.95E-02	5.13E+00
530	8.72E+00	8.64E+01	1.83E-01	4.19E-04	6.72E-02	4.63E+00
540	9.57E+00	8.60E-01	1.60E-01	3.42E-04	7.56E-02	4.18E+00
550	1.05E+01	8.55E-01	1.40E-01	2.80E-04	8.50E-02	3.77E+00
560	1.15E+01	8.49E+01	1.22E-01	2.28E-04	9.54E-02	3.39E+00
570	1.26E+01	8.42E+01	1.06E-01	1.86E-04	1.07E-01	3.05E+00
580	1.37E+01	8.33E-01	9.20E-02	1.52E-04	1.19E-01	2.74E+00
590	1.49E+01	8.24E+01	7.99E-02	1.23E-04	1.33E-01	2.46E+00
600	1.62E+01	8.13E+01	6.94E-02	1.00E-04	1.49E-01	2.20E+00
610	1.76E+01	8.02E+01	6.01E-02	8.16E-05	1.65E-01	1.97E+00
620	1.91E+01	7.89E+01	5.20E-02	6.63E-05	1.83E-01	1.76E+00
630	2.07E+01	7.75E+01	4.50E-02	5.37E-05	2.03E-01	1.57E+00
640	2.23E+01	7.60E+01	3.88E-02	4.35E-05	2.24E-01	1.40E+00
650	2.40E+01	7.44E+01	3.35E-02	3.52E-05	2.48E-01	1.25E+00
660	2.58E+01	7.28E+01	2.88E-02	2.85E-05	2.73E-01	1.11E+00
670	2.77E+01	7.10E+01	2.48E-02	2.30E-05	2.99E-01	9.84E-01
680	2.97E+01	6.91E+01	2.13E-02	1.85E-05	3.28E-01	8.72E-01
690	3.17E+01	6.72E+01	1.82E-02	1.49E-05	3.59E-01	7.71E-01
700	3.38E+01	6.52E+01	1.56E-02	1.20E-05	3.91E-01	6.81E-01
710	3.59E+01	6.31E+01	1.33E-02	9.61E-06	4.26E-01	6.00E-01
720	3.81E+01	6.09E+01	1.14E-02	7.70E-06	4.63E-01	5.28E-01
730	4.03E+01	5.87E+01	9.68E-03	6.16E-06	5.01E-01	4.64E-01
740	4.25E+01	5.65E+01	8.23E-03	4.92E-06	5.42E-01	4.06E-01
750	4.48E+01	5.43E+01	6.98E-03	3.92E-06	5.84E-01	3.56E-01
760	4.71E+01	5.20E+01	5.91E-03	3.13E-06	6.28E-01	3.11E-01
770	4.94E+01	4.97E+01	5.00E-03	2.48E-06	6.74E-01	2.71E-01
780	5.16E+01	4.74E+01	4.22E-03	1.97E-06	7.21E-01	2.36E-01
790	5.39E+01	4.51E+01	3.55E-03	1.56E-06	7.70E-01	2.05E-01
800	5.61E+01	4.29E+01	2.99E-03	1.24E-06	8.20E-01	1.78E-01

D-1, LAT--40, LON-45, LT-12; F-150; FAV-150, Ap-100, UT1-9.

80	5.44E-04	1.07E-03	2.08E-01	1.00E+00	1.39E-05	7.82E+01
90	6.06E-04	2.69E-01	2.04E+01	1.03E+00	8.66E-05	7.83E+01
100	9.48E-04	2.96E+00	1.86E+01	9.68E-01	1.31E-04	7.75E+01

Продолжение табл. 14

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.34E-03	8.61E+00	1.48E+01	7.69E-01	2.74E-04	7.58E+01
120	4.78E-03	1.46E+01	1.12E+01	6.10E-01	4.43E-04	7.35E+01
130	4.65E-03	1.91E+01	9.13E+00	5.27E-01	4.88E-04	7.12E+01
140	4.78E-03	2.25E+01	8.01E+00	4.72E-01	4.62E-04	6.90E+01
150	6.37E-03	2.53E+01	7.28E+00	4.23E-01	4.30E-04	6.70E+01
160	8.61E-03	2.79E+01	6.72E+00	3.77E-01	4.15E-04	6.50E+01
170	1.13E-02	3.03E+01	6.24E+00	3.33E-01	4.22E-04	6.31E+01
180	1.44E-02	3.26E+01	5.81E+00	2.92E-01	4.52E-04	6.12E+01
190	1.81E-02	3.50E+01	5.41E+00	2.55E-01	5.04E-04	5.94E+01
200	2.22E-02	3.73E+01	5.05E+00	2.23E-01	5.78E-04	5.74E+01
210	2.70E-02	3.96E+01	4.71E+00	1.94E-01	6.75E-04	5.55E+01
220	3.24E-02	4.18E+01	4.39E+00	1.69E-01	7.96E-04	5.36E+01
230	3.86E-02	4.41E+01	4.09E+00	1.48E-01	9.44E-04	5.16E+01
240	4.55E-02	4.64E+01	3.80E+00	1.29E-01	1.12E-03	4.96E+01
250	5.34E-02	4.87E+01	3.53E+00	1.12E-01	1.33E-03	4.76E+01
260	6.22E-02	5.10E+01	3.27E+00	9.77E-02	1.57E-03	4.55E+01
270	7.21E-02	5.33E+01	3.03E+00	8.49E-02	1.86E-03	4.35E+01
280	8.31E-02	5.55E+01	2.80E+00	7.38E-02	2.18E-03	4.15E+01
290	9.54E-02	5.77E+01	2.59E+00	6.40E-02	2.56E-03	3.95E+01
300	1.09E-01	5.99E+01	2.38E+00	5.55E-02	2.99E-03	3.75E+01
310	1.25E-01	6.17E+01	2.21E+00	4.85E-02	3.51E-03	3.59E+01
320	1.42E-01	6.38E+01	2.03E+00	4.19E-02	4.06E-03	3.39E+01
330	1.60E-01	6.59E+01	1.86E+00	3.62E-02	4.69E-03	3.20E+01
340	1.81E-01	6.79E+01	1.70E+00	3.12E-02	5.40E-03	3.02E+01
350	2.03E-01	6.98E+01	1.56E+00	2.69E-02	6.21E-03	2.84E+01
360	2.28E-01	7.16E+01	1.42E+00	2.32E-02	7.11E-03	2.67E+01
370	2.55E-01	7.33E+01	1.29E+00	1.99E-02	8.13E-03	2.51E+01
380	2.84E-01	7.50E+01	1.18E+00	1.71E-02	9.28E-03	2.35E+01
390	3.17E-01	7.66E+01	1.07E+00	1.47E-02	1.06E-02	2.20E+01
400	3.52E-01	7.81E+01	9.74E-01	1.26E-02	1.20E-02	2.06E+01
410	3.91E-01	7.95E+01	8.85E-01	1.08E-02	1.36E-02	1.92E+01
420	4.33E-01	8.08E+01	8.02E-01	9.27E-03	1.54E-02	1.79E+01
430	4.79E-01	8.20E+01	7.27E-01	7.93E-03	1.74E-02	1.67E+01
440	5.29E-01	8.32E+01	6.59E-01	6.79E-03	1.96E-02	1.56E+01
450	5.83E-01	8.43E+01	5.96E-01	5.81E-03	2.21E-02	1.45E+01
460	6.42E-01	8.53E+01	5.39E-01	4.96E-03	2.48E-02	1.35E+01
470	7.06E-01	8.62E+01	4.87E-01	4.24E-03	2.79E-02	1.25E+01
480	7.76E-01	8.71E+01	4.40E-01	3.62E-03	3.13E-02	1.17E+01
490	8.51E-01	8.79E+01	3.97E-01	3.09E-03	3.51E-02	1.08E+01
500	9.33E-01	8.86E+01	3.58E-01	2.64E-03	3.92E-02	1.00E+01
510	1.02E+00	8.93E+01	3.23E-01	2.25E-03	4.39E-02	9.31E+00
520	1.12E+00	8.99E+01	2.92E-01	1.92E-03	4.90E-02	8.63E+00
530	1.22E+00	9.05E+01	2.63E-01	1.64E-03	5.46E-02	7.99E+00
540	1.33E+00	9.10E+01	2.37E-01	1.40E-03	6.09E-02	7.40E+00
550	1.45E+00	9.14E+01	2.13E-01	1.19E-03	6.78E-02	6.85E+00
560	1.58E+00	9.18E+01	1.92E-01	1.02E-03	7.54E-02	6.34E+00
570	1.73E+00	9.22E+01	1.73E-01	8.68E-04	8.38E-02	5.87E+00
580	1.88E+00	9.24E+01	1.56E-01	7.40E-04	9.31E-02	5.43E+00
590	2.04E+00	9.27E+01	1.40E-01	6.31E-04	1.03E-01	5.02E+00
600	2.22E+00	9.29E+01	1.26E-01	5.38E-04	1.15E-01	4.64E+00

z, км	He/S, %	O ₂ /S, %	O ₃ /S, %	Ar/S, %	H ₂ /S, %	N ₂ /S, %
610	2.41E+00	9.31E+01	1.13E-01	4.59E-04	1.27E-01	4.29E+00
620	2.61E+00	9.32E+01	1.02E-01	3.91E-04	1.40E-01	3.96E+00
630	2.83E+00	9.33E+01	9.18E-02	3.34E-04	1.55E-01	3.66E+00
640	3.07E+00	9.33E+01	8.25E-02	2.84E-04	1.72E-01	3.38E+00
650	3.33E+00	9.33E+01	7.42E-02	2.43E-04	1.90E-01	3.12E+00
660	3.60E+00	9.32E+01	6.67E-02	2.07E-04	2.09E-01	2.88E+00
670	3.89E+00	9.32E+01	6.00E-02	1.76E-04	2.31E-01	2.66E+00
680	4.21E+00	9.30E+01	5.39E-02	1.50E-04	2.55E-01	2.45E+00
690	4.54E+00	9.29E+01	4.85E-02	1.28E-04	2.80E-01	2.26E+00
700	4.90E+00	9.27E+01	4.35E-02	1.09E-04	3.09E-01	2.09E+00
710	5.29E+00	9.24E+01	3.91E-02	9.33E-05	3.40E-01	1.93E+00
720	5.70E+00	9.21E+01	3.51E-02	7.95E-05	3.73E-01	1.78E+00
730	6.14E+00	9.18E+01	3.16E-02	6.78E-05	4.10E-01	1.64E+00
740	6.61E+00	9.14E+01	2.83E-02	5.78E-05	4.50E-01	1.51E+00
750	7.10E+00	9.10E+01	2.54E-02	4.93E-05	4.93E-01	1.39E+00
760	7.64E+00	9.05E+01	2.28E-02	4.20E-05	5.40E-01	1.28E+00
770	8.20E+00	9.00E+01	2.05E-02	3.58E-05	5.92E-01	1.18E+00
780	8.80E+00	8.95E+01	1.84E-02	3.05E-05	6.47E-01	1.08E+00
790	9.43E+00	8.88E+01	1.65E-02	2.60E-05	7.07E-01	9.98E-01
800	1.01E+01	8.82E+01	1.48E-02	2.22E-05	7.72E-01	9.17E-01

D-1; LAT--80; LON-45; LT-12; F-150; FAV-150; Ap-100; UTI-9.

80	5.44E-04	8.54E-04	2.09E+01	9.94E-01	1.52E-05	7.81E+01
90	5.99E-04	2.07E-01	2.07E+01	1.01E+00	9.57E-05	7.81E+01
100	9.43E-04	2.22E+00	1.96E+01	9.38E-01	1.56E-04	7.73E+01
110	2.13E-03	5.98E+00	1.76E+01	7.72E-01	3.13E-04	7.57E+01
120	3.28E-03	9.28E+00	1.58E+01	6.55E-01	4.44E-04	7.43E+01
130	2.14E-03	1.15E+01	1.46E+01	5.91E-01	4.88E-04	7.33E+01
140	1.71E-03	1.31E+01	1.37E+01	5.47E-01	4.78E-04	7.27E+01
150	2.17E-03	1.44E+01	1.29E+01	5.06E-01	4.61E-04	7.22E+01
160	2.91E-03	1.55E+01	1.23E+01	4.65E-01	4.61E-04	7.17E+01
170	3.83E-03	1.66E+01	1.17E+01	4.23E-01	4.82E-04	7.12E+01
180	4.91E-03	1.77E+01	1.12E+01	3.83E-01	5.29E-04	7.07E+01
190	6.19E-03	1.87E+01	1.07E+01	3.45E-01	6.01E-04	7.02E+01
200	7.69E-03	1.98E+01	1.03E+01	3.11E-01	7.01E-04	6.96E+01
210	9.40E-03	2.10E+01	9.85E+00	2.79E-01	8.30E-04	6.89E+01
220	1.14E-02	2.22E+01	9.43E+00	2.51E-01	9.92E-04	6.81E+01
230	1.38E-02	2.35E+01	9.02E+00	2.26E-01	1.19E-03	6.72E+01
240	1.64E-02	2.49E+01	8.62E+00	2.04E-01	1.44E-03	6.63E+01
250	1.95E-02	2.63E+01	8.23E+00	1.84E-01	1.72E-03	6.52E+01
260	2.31E-02	2.79E+01	7.85E+00	1.65E-01	2.06E-03	6.41E+01
270	2.71E-02	2.95E+01	7.48E+00	1.48E-01	2.47E-03	6.29E+01
280	3.17E-02	3.11E+01	7.12E+00	1.33E-01	2.94E-03	6.16E+01
290	3.69E-02	3.29E+01	6.76E+00	1.19E-01	3.49E-03	6.02E+01
300	4.29E-02	3.46E+01	6.42E+00	1.07E-01	4.13E-03	5.88E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	5.01E-02	3.57E+01	6.15E+00	9.70E-02	4.93E-03	5.80E+01
320	5.77E-02	3.77E+01	5.81E+00	8.66E-02	5.79E-03	5.63E+01
330	6.62E-02	3.98E+01	5.48E+00	7.73E-02	6.77E-03	5.46E+01
340	7.57E-02	4.18E+01	5.16E+00	6.89E-02	7.91E-03	5.29E+01
350	8.63E-02	4.39E+01	4.85E+00	6.13E-02	9.21E-03	5.11E+01
360	9.82E-02	4.60E+01	4.56E+00	5.45E-02	1.07E-02	4.93E+01
370	1.11E-01	4.80E+01	4.27E+00	4.84E-02	1.24E-02	4.75E+01
380	1.26E-01	5.01E+01	4.00E+00	4.30E-02	1.43E-02	4.57E+01
390	1.42E-01	5.22E+01	3.74E+00	3.81E-02	1.65E-02	4.39E+01
400	1.60E-01	5.42E+01	3.49E+00	3.37E-02	1.89E-02	4.21E+01
410	1.80E-01	5.62E+01	3.26E+00	2.98E-02	2.17E-02	4.03E+01
420	2.02E-01	5.82E+01	3.03E+00	2.63E-02	2.48E-02	3.85E+01
430	2.26E-01	6.01E+01	2.82E+00	2.32E-02	2.83E-02	3.68E+01
440	2.53E-01	6.20E+01	2.62E+00	2.04E-02	3.23E-02	3.50E+01
450	2.81E-01	6.39E+01	2.43E+00	1.80E-02	3.67E-02	3.33E+01
460	3.13E-01	6.57E+01	2.25E+00	1.58E-02	4.16E-02	3.17E+01
470	3.48E-01	6.74E+01	2.08E+00	1.38E-02	4.71E-02	3.01E+01
480	3.85E-01	6.91E+01	1.92E+00	1.21E-02	5.32E-02	2.85E+01
490	4.26E-01	7.07E+01	1.77E+00	1.06E-02	6.01E-02	2.70E+01
500	4.71E-01	7.23E+01	1.63E+00	9.31E-03	6.76E-02	2.55E+01
510	5.19E-01	7.38E+01	1.50E+00	8.14E-03	7.60E-02	2.41E+01
520	5.71E-01	7.52E+01	1.38E+00	7.11E-03	8.53E-02	2.28E+01
530	6.28E-01	7.65E+01	1.27E+00	6.21E-03	9.56E-02	2.15E+01
540	6.89E-01	7.78E+01	1.16E+00	5.42E-03	1.07E-01	2.02E+01
550	7.56E-01	7.90E+01	1.07E+00	4.72E-03	1.20E-01	1.90E+01
560	8.27E-01	8.02E+01	9.79E-01	4.11E-03	1.33E-01	1.79E+01
570	9.05E-01	8.12E+01	8.97E-01	3.58E-03	1.49E-01	1.68E+01
580	9.88E-01	8.23E+01	8.21E-01	3.12E-03	1.65E-01	1.58E+01
590	1.08E+00	8.32E+01	7.51E-01	2.71E-03	1.84E-01	1.48E+01
600	1.17E+00	8.41E+01	6.86E-01	2.36E-03	2.04E-01	1.39E+01
610	1.28E+00	8.49E+01	6.27E-01	2.05E-03	2.26E-01	1.30E+01
620	1.39E+00	8.56E+01	5.73E-01	1.78E-03	2.51E-01	1.22E+01
630	1.51E+00	8.63E+01	5.23E-01	1.54E-03	2.77E-01	1.14E+01
640	1.64E+00	8.69E+01	4.77E-01	1.34E-03	3.07E-01	1.06E+01
650	1.77E+00	8.75E+01	4.35E-01	1.16E-03	3.39E-01	9.94E+00
660	1.92E+00	8.80E+01	3.96E-01	1.01E-03	3.74E-01	9.28E+00
670	2.08E+00	8.85E+01	3.61E-01	8.76E-04	4.12E-01	8.67E+00
680	2.25E+00	8.89E+01	3.29E-01	7.59E-04	4.53E-01	8.09E+00
690	2.43E+00	8.92E+01	2.99E-01	6.58E-04	4.99E-01	7.55E+00
700	2.62E+00	8.95E+01	2.72E-01	5.71E-04	5.48E-01	7.04E+00
710	2.83E+00	8.98E+01	2.48E-01	4.95E-04	6.02E-01	6.56E+00
720	3.05E+00	9.00E+01	2.25E-01	4.29E-04	6.61E-01	6.11E+00
730	3.28E+00	9.01E+01	2.05E-01	3.71E-04	7.25E-01	5.70E+00
740	3.53E+00	9.02E+01	1.86E-01	3.22E-04	7.94E-01	5.30E+00
750	3.80E+00	9.02E+01	1.69E-01	2.79E-04	8.69E-01	4.94E+00
760	4.08E+00	9.02E+01	1.54E-01	2.41E-04	9.51E-01	4.60E+00
770	4.38E+00	9.02E+01	1.40E-01	2.09E-04	1.04E+00	4.27E+00
780	4.70E+00	9.01E+01	1.27E-01	1.81E-04	1.14E+00	3.98E+00
790	5.04E+00	8.99E+01	1.15E-01	1.57E-04	1.24E+00	3.70E+00
800	5.39E+00	8.97E+01	1.05E-01	1.36E-04	1.35E+00	3.43E+00

Широтные вариации состава при высокой солнечной активности для зимнего периода в северном и летнего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-1; LAT-0, LQN 45; LT-12; F-200, FΔV-200; Ap-100; UT1-9						
80	5.54E-04	1.30E-03	2.08E+01	9.16E-01	1.39E-05	7.83E+01
90	6.16E-04	3.34E-01	2.02E+01	8.91E-01	8.33E-05	7.86E+01
100	9.55E-04	3.75E+00	1.78E+01	7.71E-01	1.18E-04	7.77E+01
110	2.46E-03	1.16E+01	1.28E+01	5.16E-01	2.52E-04	7.51E+01
120	5.09E-03	1.98E+01	8.49E+00	3.47E-01	3.41E-04	7.13E+01
130	9.17E-03	2.57E+01	6.34E+00	2.59E-01	3.27E-04	6.77E+01
140	1.54E-02	3.04E+01	5.28E+00	1.99E-01	2.96E-04	6.41E+01
150	2.28E-02	3.46E+01	4.62E+00	1.56E-01	2.76E-04	6.06E+01
160	3.17E-02	3.86E+01	4.10E+00	1.24E-01	2.73E-04	5.71E+01
170	4.22E-02	4.24E+01	3.67E+00	9.98E-02	2.86E-04	5.37E+01
180	5.44E-02	4.60E+01	3.29E+00	8.13E-02	3.13E-04	5.05E+01
190	6.90E-02	4.95E+01	2.95E+00	6.66E-02	3.58E-04	4.74E+01
200	8.51E-02	5.28E+01	2.65E+00	5.50E-02	4.16E-04	4.44E+01
210	1.03E-01	5.58E+01	2.39E+00	4.57E-02	4.88E-04	4.16E+01
220	1.23E-01	5.87E+01	2.15E+00	3.81E-02	5.77E-04	3.90E+01
230	1.46E-01	6.14E+01	1.94E+00	3.19E-02	6.82E-04	3.64E+01
240	1.70E-01	6.40E+01	1.75E+00	2.68E-02	8.04E-04	3.40E+01
250	1.98E-01	6.64E+01	1.58E+00	2.26E-02	9.46E-04	3.18E+01
260	2.27E-01	6.87E+01	1.42E+00	1.90E-02	1.11E-03	2.97E+01
270	2.60E-01	7.08E+01	1.28E+00	1.60E-02	1.29E-03	2.76E+01
280	2.96E-01	7.28E+01	1.16E+00	1.35E-02	1.50E-03	2.57E+01
290	3.34E-01	7.46E+01	1.04E+00	1.15E-02	1.74E-03	2.40E+01
300	3.77E-01	7.64E+01	9.39E-01	9.69E-03	2.00E-03	2.23E+01
310	4.22E-01	7.80E+01	8.44E-01	8.18E-03	2.29E-03	2.07E+01
320	4.73E-01	7.96E+01	7.60E-01	6.92E-03	2.63E-03	1.92E+01
330	5.28E-01	8.10E+01	6.83E-01	5.85E-03	3.00E-03	1.78E+01
340	5.89E-01	8.23E+01	6.14E-01	4.94E-03	3.43E-03	1.65E+01
350	6.56E-01	8.35E+01	5.51E-01	4.17E-03	3.90E-03	1.53E+01
360	7.29E-01	8.46E+01	4.94E-01	3.52E-03	4.44E-03	1.41E+01
370	8.09E-01	8.57E+01	4.43E-01	2.97E-03	5.04E-03	1.30E+01
380	8.97E-01	8.67E+01	3.97E-01	2.50E-03	5.71E-03	1.20E+01
390	9.92E-01	8.75E+01	3.55E-01	2.11E-03	6.46E-03	1.11E+01
400	1.08E+00	8.83E+01	3.21E-01	1.80E-03	7.18E-03	1.03E+01
410	1.19E+00	8.90E+01	2.87E-01	1.52E-03	8.10E-03	9.51E+00
420	1.31E+00	8.97E+01	2.57E-01	1.28E-03	9.13E-03	8.76E+00
430	1.45E+00	9.03E+01	2.29E-01	1.08E-03	1.03E-02	8.06E+00
440	1.59E+00	9.08E+01	2.05E-01	9.05E-04	1.16E-02	7.42E+00
450	1.75E+00	9.12E+01	1.83E-01	7.62E-04	1.30E-02	6.82E+00
460	1.92E+00	9.16E+01	1.63E-01	6.41E-04	1.46E-02	6.27E+00
470	2.10E+00	9.20E+01	1.45E-01	5.39E-04	1.63E-02	5.76E+00
480	2.30E+00	9.23E+01	1.30E-01	4.53E-04	1.83E-02	5.29E+00
490	2.52E+00	9.25E+01	1.16E-01	3.81E-04	2.05E-02	4.86E+00
500	2.76E+00	9.27E+01	1.03E-01	3.21E-04	2.29E-02	4.46E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	3.01E+00	9.28E+01	9.19E-02	2.70E-04	2.56E-02	4.09E+00
520	3.29E+00	9.28E+01	8.19E-02	2.27E-04	2.85E-02	3.75E+00
530	3.59E+00	9.29E+01	7.30E-02	1.91E-04	3.18E-02	3.44E+00
540	3.91E+00	9.28E+01	6.50E-02	1.60E-04	3.54E-02	3.16E+00
550	4.26E+00	9.28E+01	5.79E-02	1.35E-04	3.94E-02	2.89E+00
560	4.63E+00	9.26E+01	5.15E-02	1.13E-04	4.38E-02	2.65E+00
570	5.04E+00	9.24E+01	4.59E-02	9.53E-05	4.87E-02	2.43E+00
580	5.48E+00	9.22E+01	4.08E-02	8.01E-05	5.40E-02	2.22E+00
590	5.94E+00	9.19E+01	3.63E-02	6.73E-05	5.99E-02	2.04E+00
600	6.45E+00	9.16E+01	3.23E-02	5.66E-05	6.61E-02	1.86E+00
610	6.99E+00	9.12E+01	2.88E-02	4.76E-05	7.35E-02	1.70E+00
620	7.57E+00	9.08E+01	2.56E-02	4.00E-05	8.13E-02	1.56E+00
630	8.19E+00	9.03E+01	2.27E-02	3.36E-05	8.99E-02	1.43E+00
640	8.85E+00	8.97E+01	2.02E-02	2.82E-05	9.92E-02	1.30E+00
650	9.56E+00	8.91E+01	1.79E-02	2.37E-05	1.09E-01	1.19E+00
660	1.03E+01	8.85E+01	1.59E-02	1.99E-05	1.21E-01	1.09E+00
670	1.11E+01	8.77E+01	1.41E-02	1.67E-05	1.33E-01	9.91E-01
680	1.20E+01	8.70E+01	1.25E-02	1.40E-05	1.46E-01	9.04E-01
690	1.29E+01	8.61E+01	1.11E-02	1.18E-05	1.60E-01	8.24E-01
700	1.38E+01	8.52E+01	9.86E-03	9.88E-06	1.76E-01	7.51E-01
710	1.49E+01	8.42E+01	8.74E-03	8.29E-06	1.93E-01	6.84E-01
720	1.59E+01	8.32E+01	7.73E-03	6.95E-06	2.11E-01	6.22E-01
730	1.71E+01	8.21E+01	6.84E-03	5.82E-06	2.31E-01	5.66E-01
740	1.83E+01	8.10E+01	6.05E-03	4.87E-06	2.52E-01	5.14E-01
750	1.95E+01	7.97E+01	5.35E-03	4.08E-06	2.74E-01	4.67E-01
760	2.08E+01	7.84E+01	4.72E-03	3.41E-06	2.99E-01	4.23E-01
770	2.22E+01	7.71E+01	4.16E-03	2.85E-06	3.25E-01	3.84E-01
780	2.36E+01	7.57E+01	3.67E-03	2.38E-06	3.53E-01	3.47E-01
790	2.51E+01	7.42E+01	3.23E-03	1.99E-06	3.83E-01	3.14E-01
800	2.66E+01	7.27E+01	2.84E-03	1.66E-06	4.14E-01	2.84E-01

D—1; LAT—40; LON—45; LT—12; F—200; FAV—200; Ap—100; UTI—9

80	5.42E-04	1.44E-03	2.08E+01	8.57E-01	1.38E-05	7.83E+01
90	6.06E-04	3.75E-01	2.03E+01	7.93E-01	8.46E-05	7.85E+01
100	9.50E-04	4.29E+00	1.79E+01	6.32E-01	1.28E-04	7.71E+01
110	2.10E-03	1.25E+01	1.33E+01	4.02E-01	2.30E-04	7.37E+01
120	3.73E-03	1.95E+01	9.65E+00	2.75E-01	2.36E-04	7.06E+01
130	9.10E-03	2.53E+01	7.43E+00	1.85E-01	2.29E-04	6.71E+01
140	1.81E-02	3.00E+01	6.29E+00	1.31E-01	2.05E-04	6.36E+01
150	2.68E-02	3.43E+01	5.53E+00	9.59E-02	1.88E-04	6.01E+01
160	3.68E-02	3.86E+01	4.91E+00	7.22E-02	1.86E-04	5.64E+01
170	4.92E-02	4.29E+01	4.34E+00	5.54E-02	1.98E-04	5.27E+01
180	6.44E-02	4.71E+01	3.83E+00	4.32E-02	2.22E-04	4.89E+01
190	8.29E-02	5.13E+01	3.37E+00	3.39E-02	2.60E-04	4.52E+01
200	1.05E-01	5.52E+01	2.96E+00	2.69E-02	3.11E-04	4.17E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.29E-01	5.89E+01	2.60E+00	2.14E-02	3.76E-04	3.83E+01
220	1.58E-01	6.24E+01	2.28E+00	1.71E-02	4.57E-04	3.51E+01
230	1.91E-01	6.56E+01	2.00E+00	1.38E-02	5.54E-04	3.22E+01
240	2.27E-01	6.85E+01	1.76E+00	1.11E-02	6.69E-04	2.95E+01
250	2.68E-01	7.12E+01	1.55E+00	9.03E-03	8.03E-04	2.70E+01
260	3.12E-01	7.37E+01	1.36E+00	7.33E-03	9.59E-04	2.47E+01
270	3.62E-01	7.59E+01	1.19E+00	5.97E-03	1.14E-03	2.25E+01
280	4.16E-01	7.79E+01	1.05E+00	4.88E-03	1.34E-03	2.06E+01
290	4.76E-01	7.98E+01	9.26E-01	3.99E-03	1.57E-03	1.88E+01
300	5.41E-01	8.14E+01	8.17E-01	3.27E-03	1.84E-03	1.72E+01
310	6.08E-01	8.31E+01	7.13E-01	2.66E-03	2.11E-03	1.56E+01
320	6.88E-01	8.45E+01	6.28E-01	2.18E-03	2.46E-03	1.42E+01
330	7.76E-01	8.57E+01	5.54E-01	1.79E-03	2.85E-03	1.30E+01
340	8.75E-01	8.68E+01	4.87E-01	1.47E-03	3.29E-03	1.18E+01
350	9.84E-01	8.78E+01	4.28E-01	1.21E-03	3.80E-03	1.08E+01
360	1.10E+00	8.87E+01	3.77E-01	9.89E-04	4.38E-03	9.80E+00
370	1.24E+00	8.95E+01	3.31E-01	8.10E-04	5.03E-03	8.91E+00
380	1.38E+00	9.02E+01	2.90E-01	6.64E-04	5.78E-03	8.10E+00
390	1.54E+00	9.08E+01	2.55E-01	5.41E-04	6.62E-03	7.36E+00
400	1.72E+00	9.14E+01	2.24E-01	4.47E-04	7.54E-03	6.69E+00
410	1.91E+00	9.18E+01	1.96E-01	3.66E-04	8.61E-03	6.07E+00
420	2.12E+00	9.22E+01	1.72E-01	3.00E-04	9.82E-03	5.50E+00
430	2.36E+00	9.25E+01	1.51E-01	2.45E-04	1.12E-02	4.99E+00
440	2.62E+00	9.27E+01	1.32E-01	2.01E-04	1.27E-02	4.52E+00
450	2.90E+00	9.29E+01	1.16E-01	1.61E-04	1.45E-02	4.09E+00
460	3.21E+00	9.30E+01	1.01E-01	1.35E-04	1.64E-02	3.70E+00
470	3.55E+00	9.30E+01	8.85E-02	1.10E-04	1.86E-02	3.35E+00
480	3.93E+00	9.29E+01	7.74E-02	9.01E-05	2.11E-02	3.03E+00
490	4.33E+00	9.28E+01	6.77E-02	7.37E-05	2.39E-02	2.74E+00
500	4.78E+00	9.27E+01	5.92E-02	6.03E-05	2.70E-02	2.47E+00
510	5.26E+00	9.24E+01	5.17E-02	4.93E-05	3.05E-02	2.23E+00
520	5.79E+00	9.21E+01	4.52E-02	4.03E-05	3.44E-02	2.02E+00
530	6.36E+00	9.17E+01	3.94E-02	3.30E-05	3.88E-02	1.82E+00
540	6.99E+00	9.13E+01	3.44E-02	2.69E-05	4.36E-02	1.64E+00
550	7.66E+00	9.08E+01	3.00E-02	2.20E-05	4.90E-02	1.48E+00
560	8.40E+00	9.02E+01	2.62E-02	1.80E-05	5.50E-02	1.33E+00
570	9.19E+00	8.95E+01	2.28E-02	1.47E-05	6.17E-02	1.20E+00
580	1.00E+01	8.88E+01	1.99E-02	1.20E-05	6.91E-02	1.08E+00
590	1.10E+01	8.80E+01	1.73E-02	9.79E-06	7.73E-02	9.71E-01
600	1.20E+01	8.71E+01	1.51E-02	7.99E-06	8.63E-02	8.73E-01
610	1.30E+01	8.61E+01	1.31E-02	6.51E-06	9.63E-02	7.84E-01
620	1.41E+01	8.50E+01	1.11E-02	5.31E-06	1.07E-01	7.03E-01
630	1.54E+01	8.39E+01	9.88E-03	4.32E-06	1.19E-01	6.30E-01
640	1.67E+01	8.26E+01	8.57E-03	3.52E-06	1.32E-01	5.64E-01
650	1.80E+01	8.13E+01	7.43E-03	2.86E-06	1.47E-01	5.05E-01
660	1.95E+01	7.99E+01	6.43E-03	2.33E-06	1.62E-01	4.51E-01
670	2.10E+01	7.84E+01	5.56E-03	1.89E-06	1.79E-01	4.03E-01
680	2.26E+01	7.68E+01	4.80E-03	1.53E-06	1.98E-01	3.59E-01
690	2.43E+01	7.51E+01	4.14E-03	1.24E-06	2.18E-01	3.20E-01
700	2.61E+01	7.34E+01	3.57E-03	1.00E-06	2.39E-01	2.84E-01

Продолжение табл. 15

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ S, %
710	2.79E+01	7.16E+01	3.07E-03	8.12E-07	2.62E-01	2.52E-01
720	2.98E+01	6.96E+01	2.61E-03	6.56E-07	2.87E-01	2.24E-01
730	3.18E+01	6.77E+01	2.27E-03	5.29E-07	3.13E-01	1.98E-01
740	3.39E+01	6.56E+01	1.94E-03	4.26E-07	3.41E-01	1.75E-01
750	3.60E+01	6.35E+01	1.66E-03	3.42E-07	3.70E-01	1.54E-01
760	3.81E+01	6.14E+01	1.42E-03	2.75E-07	4.01E-01	1.36E-01
770	4.03E+01	5.92E+01	1.21E-03	2.21E-07	4.34E-01	1.20E-01
780	4.25E+01	5.69E+01	1.03E-03	1.77E-07	4.69E-01	1.05E-01
790	4.47E+01	5.47E+01	8.76E-04	1.41E-07	5.05E-01	9.20E-02
800	4.70E+01	5.24E+01	7.43E-04	1.13E-07	5.42E-01	8.05E-02

D—1; LAT—80; LON—45; LT—12; F—200; FAV—200; Ap—100; UT1—9

80	5.38E-04	1.15E-03	2.09E+01	9.67E-01	1.23E-05	7.82E+01
90	5.87E-04	2.90E-01	2.06E+01	9.67E-01	7.13E-05	7.82E+01
100	9.45E-04	3.26E+00	1.89E+01	8.58E-01	1.13E-04	7.70E+01
110	2.16E-03	8.87E+00	1.60E+01	6.85E-01	1.93E-04	7.44E+01
120	4.24E-03	1.38E+01	1.34E+01	5.62E-01	2.13E-04	7.22E+01
130	7.98E-03	1.76E+01	1.17E+01	4.78E-01	1.97E-04	7.02E+01
140	1.30E-02	2.06E+01	1.06E+01	4.16E-01	1.67E-04	6.84E+01
150	1.86E-02	2.33E+01	9.72E+00	3.63E-01	1.43E-04	6.66E+01
160	2.51E-02	2.59E+01	9.02E+00	3.17E-01	1.30E-04	6.48E+01
170	3.29E-02	2.83E+01	8.39E+00	2.75E-01	1.27E-04	6.30E+01
180	4.20E-02	3.08E+01	7.81E+00	2.39E-01	1.32E-04	6.11E+01
190	5.26E-02	3.33E+01	7.27E+00	2.07E-01	1.45E-04	5.92E+01
200	6.50E-02	3.58E+01	6.76E+00	1.79E-01	1.65E-04	5.72E+01
210	7.91E-02	3.83E+01	6.29E+00	1.55E-01	1.92E-04	5.52E+01
220	9.56E-02	4.08E+01	5.84E+00	1.34E-01	2.27E-04	5.31E+01
230	1.15E-01	4.34E+01	5.41E+00	1.15E-01	2.70E-04	5.10E+01
240	1.36E-01	4.59E+01	5.00E+00	9.96E-02	3.23E-04	4.88E+01
250	1.61E-01	4.85E+01	4.62E+00	8.61E-02	3.86E-04	4.67E+01
260	1.89E-01	5.10E+01	4.26E+00	7.41E-02	4.61E-04	4.45E+01
270	2.21E-01	5.35E+01	3.91E+00	6.37E-02	5.49E-04	4.23E+01
280	2.57E-01	5.59E+01	3.59E+00	5.46E-02	6.51E-04	4.02E+01
290	2.97E-01	5.84E+01	3.29E+00	4.68E-02	7.70E-04	3.80E+01
300	3.42E-01	6.07E+01	3.01E+00	4.01E-02	9.08E-04	3.59E+01
310	3.95E-01	6.28E+01	2.75E+00	3.44E-02	1.07E-03	3.40E+01
320	4.51E-01	6.51E+01	2.51E+00	2.93E-02	1.25E-03	3.19E+01
330	5.14E-01	6.72E+01	2.28E+00	2.50E-02	1.46E-03	3.00E+01
340	5.83E-01	6.93E+01	2.06E+00	2.12E-02	1.70E-03	2.80E+01
350	6.61E-01	7.13E+01	1.87E+00	1.80E-02	1.97E-03	2.62E+01
360	7.46E-01	7.31E+01	1.69E+00	1.53E-02	2.28E-03	2.44E+01
370	8.41E-01	7.49E+01	1.52E+00	1.29E-02	2.63E-03	2.28E+01
380	9.45E-01	7.65E+01	1.37E+00	1.09E-02	3.03E-03	2.12E+01
390	1.06E+00	7.81E+01	1.23E+00	9.24E-03	3.48E-03	1.96E+01
400	1.19E+00	7.95E+01	1.11E+00	7.80E-03	3.99E-03	1.82E+01

z, км	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.32E+00	8.08E+01	9.94E-01	6.58E-03	4.56E-03	1.69E+01
420	1.48E+00	8.20E+01	8.91E-01	5.54E-03	5.20E-03	1.56E+01
430	1.64E+00	8.32E+01	7.98E-01	4.66E-03	5.92E-03	1.44E+01
440	1.82E+00	8.42E+01	7.14E-01	3.92E-03	6.73E-03	1.33E+01
450	2.02E+00	8.51E+01	6.38E-01	3.29E-03	7.64E-03	1.22E+01
460	2.24E+00	8.59E+01	5.70E-01	2.77E-03	8.65E-03	1.13E+01
470	2.47E+00	8.66E+01	5.08E-01	2.32E-03	9.79E-03	1.04E+01
480	2.73E+00	8.73E+01	4.53E-01	1.95E-03	1.11E-02	9.53E+00
490	3.01E+00	8.78E+01	4.04E-01	1.63E-03	1.25E-02	8.76E+00
500	3.32E+00	8.83E+01	3.59E-01	1.37E-03	1.40E-02	8.04E+00
510	3.65E+00	8.86E+01	3.20E-01	1.15E-03	1.58E-02	7.37E+00
520	4.00E+00	8.89E+01	2.81E-01	9.60E-04	1.77E-02	6.76E+00
530	4.39E+00	8.91E+01	2.53E-01	8.03E-04	1.99E-02	6.19E+00
540	4.81E+00	8.93E+01	2.25E-01	6.72E-04	2.23E-02	5.66E+00
550	5.27E+00	8.93E+01	1.99E-01	5.62E-04	2.50E-02	5.18E+00
560	5.76E+00	8.93E+01	1.77E-01	4.70E-04	2.79E-02	4.74E+00
570	6.29E+00	8.92E+01	1.57E-01	3.93E-04	3.12E-02	4.33E+00
580	6.86E+00	8.90E+01	1.39E-01	3.28E-04	3.48E-02	3.95E+00
590	7.47E+00	8.88E+01	1.23E-01	2.74E-04	3.87E-02	3.61E+00
600	8.13E+00	8.81E+01	1.09E-01	2.29E-04	4.31E-02	3.29E+00
610	8.84E+00	8.80E+01	9.66E-02	1.91E-04	4.79E-02	3.00E+00
620	9.60E+00	8.75E+01	8.55E-02	1.59E-04	5.31E-02	2.73E+00
630	1.04E+01	8.70E+01	7.56E-02	1.33E-04	5.89E-02	2.49E+00
640	1.13E+01	8.63E+01	6.68E-02	1.11E-04	6.52E-02	2.26E+00
650	1.22E+01	8.56E+01	5.90E-02	9.23E-05	7.21E-02	2.06E+00
660	1.32E+01	8.48E+01	5.20E-02	7.69E-05	7.96E-02	1.87E+00
670	1.42E+01	8.39E+01	4.59E-02	6.40E-05	8.78E-02	1.69E+00
680	1.53E+01	8.30E+01	4.01E-02	5.32E-05	9.67E-02	1.54E+00
690	1.65E+01	8.20E+01	3.56E-02	4.43E-05	1.06E-01	1.39E+00
700	1.77E+01	8.09E+01	3.13E-02	3.68E-05	1.17E-01	1.26E+00
710	1.90E+01	7.97E+01	2.75E-02	3.05E-05	1.28E-01	1.14E+00
720	2.04E+01	7.81E+01	2.42E-02	2.53E-05	1.40E-01	1.03E+00
730	2.18E+01	7.71E+01	2.12E-02	2.10E-05	1.53E-01	9.30E-01
740	2.33E+01	7.56E+01	1.86E-02	1.74E-05	1.67E-01	8.39E-01
750	2.49E+01	7.42E+01	1.63E-02	1.41E-05	1.82E-01	7.55E-01
760	2.65E+01	7.26E+01	1.42E-02	1.19E-05	1.98E-01	6.80E-01
770	2.82E+01	7.10E+01	1.24E-02	9.83E-06	2.15E-01	6.11E-01
780	2.99E+01	6.93E+01	1.09E-02	8.12E-06	2.33E-01	5.48E-01
790	3.17E+01	6.75E+01	9.47E-03	6.69E-06	2.53E-01	4.91E-01
800	3.36E+01	6.57E+01	8.25E-03	5.51E-06	2.73E-01	4.40E-01

D 1; LAT -40; LON-15; LT-12; F-200; FAV-200; Ap-100; UT1-9

80	5.43E-04	1.13E-03	2.08E+01	1.00E+00	1.28E-05	7.82E+01
90	6.08E-04	2.84E-03	2.03E+01	1.03E+00	7.55E-05	7.83E+01
100	9.49E-04	3.15E+00	1.81E+01	9.65E-01	1.08E-04	7.75E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.17E-03	9.23E+00	1.43E+01	7.62E-01	2.03E-04	7.57E+01
120	3.78E-03	1.56E+01	1.05E+01	6.10E-01	2.65E-04	7.33E+01
130	3.97E-03	1.97E+01	8.54E+00	5.48E-01	2.39E-04	7.12E+01
140	4.63E-03	2.29E+01	7.50E+00	5.01E-01	2.05E-04	6.91E+01
150	6.31E-03	2.57E+01	6.82E+00	4.53E-01	1.82E-04	6.70E+01
160	8.56E-03	2.83E+01	6.29E+00	4.04E-01	1.73E-04	6.50E+01
170	1.13E-02	3.08E+01	5.83E+00	3.57E-01	1.75E-04	6.30E+01
180	1.44E-02	3.33E+01	5.42E+00	3.13E-01	1.87E-04	6.10E+01
190	1.81E-02	3.57E+01	5.04E+00	2.73E-01	2.10E-04	5.89E+01
200	2.23E-02	3.81E+01	4.70E+00	2.39E-01	2.41E-04	5.70E+01
210	2.69E-02	4.04E+01	4.39E+00	2.09E-01	2.80E-04	5.50E+01
220	3.21E-02	4.26E+01	4.10E+00	1.83E-01	3.28E-04	5.31E+01
230	3.79E-02	4.49E+01	3.82E+00	1.61E-01	3.85E-04	5.11E+01
240	4.43E-02	4.70E+01	3.57E+00	1.41E-01	4.52E-04	4.92E+01
250	5.13E-02	4.92E+01	3.33E+00	1.24E-01	5.29E-04	4.73E+01
260	5.91E-02	5.13E+01	3.11E+00	1.10E-01	6.17E-04	4.54E+01
270	6.75E-02	5.34E+01	2.90E+00	9.65E-02	7.17E-04	4.36E+01
280	7.68E-02	5.54E+01	2.70E+00	8.50E-02	8.29E-04	4.17E+01
290	8.68E-02	5.74E+01	2.51E+00	7.49E-02	9.55E-04	3.99E+01
300	9.77E-02	5.93E+01	2.34E+00	6.60E-02	1.09E-03	3.82E+01
310	1.10E-01	6.10E+01	2.18E+00	5.85E-02	1.26E-03	3.66E+01
320	1.23E-01	6.29E+01	2.03E+00	5.15E-02	1.43E-03	3.49E+01
330	1.37E-01	6.47E+01	1.88E+00	4.53E-02	1.63E-03	3.32E+01
340	1.53E-01	6.65E+01	1.74E+00	3.97E-02	1.85E-03	3.15E+01
350	1.70E-01	6.83E+01	1.61E+00	3.49E-02	2.09E-03	2.99E+01
360	1.88E-01	6.99E+01	1.48E+00	3.06E-02	2.36E-03	2.84E+01
370	2.08E-01	7.15E+01	1.37E+00	2.68E-02	2.67E-03	2.68E+01
380	2.30E-01	7.31E+01	1.26E+00	2.35E-02	3.00E-03	2.51E+01
390	2.53E-01	7.46E+01	1.16E+00	2.05E-02	3.37E-03	2.40E+01
400	2.78E-01	7.60E+01	1.07E+00	1.79E-02	3.78E-03	2.26E+01
410	3.06E-01	7.73E+01	9.83E-01	1.57E-02	4.21E-03	2.14E+01
420	3.36E-01	7.86E+01	9.03E-01	1.37E-02	4.74E-03	2.01E+01
430	3.68E-01	7.98E+01	8.28E-01	1.19E-02	5.29E-03	1.89E+01
440	4.03E-01	8.10E+01	7.60E-01	1.04E-02	5.90E-03	1.78E+01
450	4.40E-01	8.21E+01	6.97E-01	9.08E-03	6.57E-03	1.67E+01
460	4.81E-01	8.31E+01	6.38E-01	7.92E-03	7.31E-03	1.57E+01
470	5.24E-01	8.41E+01	5.85E-01	6.90E-03	8.12E-03	1.48E+01
480	5.71E-01	8.50E+01	5.35E-01	6.01E-03	9.02E-03	1.39E+01
490	6.21E-01	8.59E+01	4.89E-01	5.23E-03	9.99E-03	1.30E+01
500	6.75E-01	8.67E+01	4.48E-01	4.55E-03	1.11E-02	1.22E+01
510	7.33E-01	8.74E+01	4.09E-01	3.96E-03	1.22E-02	1.14E+01
520	7.96E-01	8.81E+01	3.74E-01	3.45E-03	1.35E-02	1.07E+01
530	8.62E-01	8.88E+01	3.42E-01	3.00E-03	1.49E-02	1.00E+01
540	9.34E-01	8.94E+01	3.12E-01	2.61E-03	1.65E-02	9.36E+00
550	1.01E+00	8.99E+01	2.85E-01	2.27E-03	1.82E-02	8.76E+00
560	1.09E+00	9.04E+01	2.60E-01	1.97E-03	2.00E-02	8.19E+00
570	1.18E+00	9.09E+01	2.37E-01	1.72E-03	2.20E-02	7.66E+00
580	1.28E+00	9.13E+01	2.16E-01	1.49E-03	2.42E-02	7.16E+00
590	1.38E+00	9.17E+01	1.97E-01	1.30E-03	2.66E-02	6.69E+00
600	1.49E+00	9.21E+01	1.80E-01	1.13E-03	2.92E-02	6.25E+00

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	1.60E+00	9.24E+01	1.64E-01	9.81E-04	3.20E-02	5.84E+00
620	1.72E+00	9.26E+01	1.50E-01	8.53E-04	3.51E-02	5.45E+00
630	1.85E+00	9.29E+01	1.37E-01	7.41E-04	3.85E-02	5.09E+00
640	2.00E+00	9.31E+01	1.25E-01	6.45E-04	4.22E-02	4.75E+00
650	2.15E+00	9.33E+01	1.14E-01	5.61E-04	4.62E-02	4.43E+00
660	2.31E+00	9.34E+01	1.03E-01	4.88E-04	5.05E-02	4.14E+00
670	2.48E+00	9.35E+01	9.43E-02	4.24E-04	5.52E-02	3.86E+00
680	2.66E+00	9.36E+01	8.60E-02	3.69E-04	6.03E-02	3.60E+00
690	2.86E+00	9.36E+01	7.84E-02	3.21E-04	6.59E-02	3.36E+00
700	3.06E+00	9.37E+01	7.14E-02	2.79E-04	7.19E-02	3.14E+00
710	3.28E+00	9.36E+01	6.51E-02	2.43E-04	7.84E-02	2.92E+00
720	3.52E+00	9.36E+01	5.93E-02	2.11E-04	8.55E-02	2.73E+00
730	3.77E+00	9.35E+01	5.40E-02	1.84E-04	9.31E-02	2.54E+00
740	4.03E+00	9.34E+01	4.92E-02	1.60E-04	1.01E-01	2.37E+00
750	4.31E+00	9.33E+01	4.49E-02	1.39E-04	1.10E-01	2.21E+00
760	4.61E+00	9.32E+01	4.09E-02	1.21E-04	1.20E-01	2.06E+00
770	4.93E+00	9.30E+01	3.72E-02	1.06E-04	1.31E-01	1.92E+00
780	5.27E+00	9.28E+01	3.39E-02	9.19E-05	1.42E-01	1.79E+00
790	5.62E+00	9.25E+01	3.09E-02	8.00E-05	1.54E-01	1.67E+00
800	6.00E+00	9.23E+01	2.82E-02	6.96E-05	1.67E-01	1.55E+00

D 1; LAT—80; ION—45; LT—12; F—200; FAV—200; Ap—100; UT1—9

80	5.47E-04	8.89E-04	2.09E+01	9.92E-01	1.39E-05	7.81E+01
90	6.00E-04	2.16E-01	2.06E+01	1.01E+00	8.31E-05	7.81E+01
100	9.45E-04	2.33E+00	1.94E+01	9.37E-01	1.28E-04	7.74E+01
110	2.19E-03	6.35E+00	1.70E+01	7.68E-01	2.47E-04	7.59E+01
120	3.54E-03	9.91E+00	1.49E+01	6.52E-01	3.28E-04	7.45E+01
130	2.57E-03	1.23E+01	1.35E+01	5.90E-01	3.31E-04	7.36E+01
140	2.20E-03	1.39E+01	1.26E+01	5.50E-01	2.96E-04	7.29E+01
150	2.78E-03	1.52E+01	1.19E+01	5.12E-01	2.64E-04	7.24E+01
160	3.68E-03	1.64E+01	1.13E+01	4.74E-01	2.46E-04	7.18E+01
170	4.75E-03	1.74E+01	1.08E+01	4.35E-01	2.14E-04	7.13E+01
180	6.00E-03	1.84E+01	1.04E+01	3.97E-01	2.56E-04	7.08E+01
190	7.44E-03	1.94E+01	9.97E+00	3.61E-01	2.80E-04	7.02E+01
200	9.09E-03	2.05E+01	9.58E+00	3.27E-01	3.17E-04	6.96E+01
210	1.09E-02	2.16E+01	9.21E+00	2.97E-01	3.65E-04	6.89E+01
220	1.31E-02	2.27E+01	8.85E+00	2.70E-01	4.26E-04	6.82E+01
230	1.55E-02	2.39E+01	8.49E+00	2.45E-01	5.01E-04	6.73E+01
240	1.82E-02	2.51E+01	8.15E+00	2.23E-01	5.91E-04	6.65E+01
250	2.14E-02	2.65E+01	7.81E+00	2.03E-01	6.96E-04	6.55E+01
260	2.48E-02	2.78E+01	7.49E+00	1.84E-01	8.20E-04	6.45E+01
270	2.88E-02	2.93E+01	7.16E+00	1.67E-01	9.63E-04	6.34E+01
280	3.32E-02	3.08E+01	6.85E+00	1.52E-01	1.13E-03	6.22E+01
290	3.81E-02	3.23E+01	6.54E+00	1.38E-01	1.32E-03	6.10E+01
300	4.36E-02	3.39E+01	6.24E+00	1.25E-01	1.54E-03	5.97E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ S, %
310	5.03E-02	3.49E+01	6.01E+00	1.14E-01	1.80E-03	5.90E+01
320	5.71E-02	3.66E+01	5.72E+00	1.03E-01	2.08E-03	5.75E+01
330	6.47E-02	3.85E+01	5.43E+00	9.33E-02	2.40E-03	5.60E+01
340	7.31E-02	4.03E+01	5.15E+00	8.42E-02	2.77E-03	5.44E+01
350	8.24E-02	4.21E+01	4.88E+00	7.60E-02	3.17E-03	5.28E+01
360	9.26E-02	4.40E+01	4.62E+00	6.85E-02	3.64E-03	5.13E+01
370	1.04E-01	4.58E+01	4.37E+00	6.17E-02	4.15E-03	4.97E+01
380	1.16E-01	4.77E+01	4.12E+00	5.55E-02	4.74E-03	4.80E+01
390	1.30E-01	4.95E+01	3.89E+00	4.99E-02	5.39E-03	4.64E+01
400	1.45E-01	5.13E+01	3.67E+00	4.48E-02	6.12E-03	4.48E+01
410	1.61E-01	5.32E+01	3.45E+00	4.02E-02	6.93E-03	4.32E+01
420	1.79E-01	5.50E+01	3.24E+00	3.60E-02	7.84E-03	4.16E+01
430	1.99E-01	5.67E+01	3.05E+00	3.23E-02	8.85E-03	4.00E+01
440	2.20E-01	5.85E+01	2.86E+00	2.89E-02	9.97E-03	3.84E+01
450	2.43E-01	6.02E+01	2.68E+00	2.58E-02	1.12E-02	3.68E+01
460	2.68E-01	6.19E+01	2.51E+00	2.31E-02	1.26E-02	3.53E+01
470	2.95E-01	6.35E+01	2.34E+00	2.06E-02	1.41E-02	3.38E+01
480	3.25E-01	6.52E+01	2.19E+00	1.83E-02	1.58E-02	3.23E+01
490	3.56E-01	6.67E+01	2.04E+00	1.63E-02	1.76E-02	3.08E+01
500	3.91E-01	6.82E+01	1.90E+00	1.45E-02	1.97E-02	2.94E+01
510	4.28E-01	6.97E+01	1.77E+00	1.29E-02	2.19E-02	2.81E+01
520	4.68E-01	7.11E+01	1.65E+00	1.15E-02	2.44E-02	2.67E+01
530	5.11E-01	7.25E+01	1.54E+00	1.02E-02	2.71E-02	2.54E+01
540	5.57E-01	7.38E+01	1.43E+00	9.07E-03	3.00E-02	2.42E+01
550	6.06E-01	7.51E+01	1.32E+00	8.05E-03	3.33E-02	2.30E+01
560	6.60E-01	7.63E+01	1.23E+00	7.14E-03	3.68E-02	2.18E+01
570	7.17E-01	7.74E+01	1.14E+00	6.33E-03	4.07E-02	2.07E+01
580	7.78E-01	7.85E+01	1.06E+00	5.60E-03	4.49E-02	1.96E+01
590	8.43E-01	7.96E+01	9.78E-01	4.96E-03	4.95E-02	1.86E+01
600	9.13E-01	8.06E+01	9.05E-01	4.39E-03	5.45E-02	1.76E+01
610	9.88E-01	8.15E+01	8.38E-01	3.88E-03	6.00E-02	1.66E+01
620	1.07E+00	8.24E+01	7.74E-01	3.43E-03	6.59E-02	1.57E+01
630	1.15E+00	8.32E+01	7.16E-01	3.04E-03	7.24E-02	1.48E+01
640	1.24E+00	8.40E+01	6.61E-01	2.68E-03	7.94E-02	1.40E+01
650	1.34E+00	8.47E+01	6.10E-01	2.37E-03	8.70E-02	1.32E+01
660	1.44E+00	8.54E+01	5.63E-01	2.09E-03	9.52E-02	1.25E+01
670	1.55E+00	8.60E+01	5.20E-01	1.85E-03	1.04E-01	1.18E+01
680	1.67E+00	8.66E+01	4.80E-01	1.63E-03	1.14E-01	1.11E+01
690	1.79E+00	8.72E+01	4.42E-01	1.44E-03	1.24E-01	1.05E+01
700	1.93E+00	8.77E+01	4.08E-01	1.27E-03	1.36E-01	9.86E+00
710	2.07E+00	8.81E+01	3.76E-01	1.12E-03	1.48E-01	9.29E+00
720	2.22E+00	8.85E+01	3.46E-01	9.89E-04	1.61E-01	8.74E+00
730	2.37E+00	8.89E+01	3.19E-01	8.73E-04	1.76E-01	8.23E+00
740	2.54E+00	8.92E+01	2.93E-01	7.70E-04	1.91E-01	7.74E+00
750	2.72E+00	8.95E+01	2.70E-01	6.79E-04	2.08E-01	7.28E+00
760	2.91E+00	8.98E+01	2.49E-01	5.99E-04	2.26E-01	6.85E+00
770	3.11E+00	9.00E+01	2.29E-01	5.28E-04	2.45E-01	6.44E+00
780	3.32E+00	9.02E+01	2.11E-01	4.65E-04	2.66E-01	6.05E+00
790	3.54E+00	9.03E+01	1.94E-01	4.10E-04	2.89E-01	5.69E+00
800	3.78E+00	9.04E+01	1.78E-01	3.62E-04	3.13E-01	5.34E+00

Таблица 16.

Широтные вариации состава при низкой солнечной активности для условий
весеннего равноденствия в северном и осеннего в южном полушариях

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
<i>D</i> —82; <i>LAT</i> —0; <i>LON</i> —45; <i>LT</i> —12; <i>F</i> —70; <i>FΔV</i> —70; <i>Ar</i> —100; <i>UT</i> —9						
80	5.53E-04	1.23E-03	2.08E+01	9.01E-01	1.80E-05	7.83E+01
90	6.13E-04	3.14E-01	2.04E+01	8.61E-01	1.20E-04	7.85E+01
100	9.53E-04	3.50E+00	1.84E+01	7.34E-01	1.97E-04	7.74E+01
110	2.53E-03	1.07E+01	1.40E+01	4.81E-01	5.01E-04	7.49E+01
120	7.67E-03	1.92E+01	9.81E+00	2.95E-01	1.10E-03	7.07E+01
130	1.79E-02	2.58E+01	7.50E+00	1.99E-01	1.48E-03	6.65E+01
140	3.33E-02	3.14E+01	6.21E+00	1.41E-01	1.71E-03	6.22E+01
150	5.12E-02	3.64E+01	5.34E+00	1.03E-01	1.92E-03	5.81E+01
160	7.31E-02	4.11E+01	4.64E+00	7.75E-02	2.16E-03	5.41E+01
170	1.00E-01	4.57E+01	4.04E+00	5.90E-02	2.52E-03	5.01E+01
180	1.33E-01	5.01E+01	3.51E+00	4.52E-02	3.01E-03	4.62E+01
190	1.74E-01	5.43E+01	3.05E+00	3.49E-02	3.69E-03	4.24E+01
200	2.23E-01	5.84E+01	2.63E+00	2.69E-02	4.59E-03	3.87E+01
210	2.82E-01	6.22E+01	2.27E+00	2.07E-02	5.76E-03	3.52E+01
220	3.52E-01	6.59E+01	1.94E+00	1.60E-02	7.25E-03	3.18E+01
230	4.36E-01	6.93E+01	1.66E+00	1.23E-02	9.14E-03	2.86E+01
240	5.34E-01	7.24E+01	1.41E+00	9.39E-03	1.15E-02	2.56E+01
250	6.51E-01	7.53E+01	1.19E+00	7.17E-03	1.41E-02	2.28E+01
260	7.87E-01	7.79E+01	1.01E+00	5.46E-03	1.80E-02	2.03E+01
270	9.46E-01	8.02E+01	8.46E-01	4.15E-03	2.24E-02	1.79E+01
280	1.13E+00	8.23E+01	7.09E-01	3.14E-03	2.77E-02	1.58E+01
290	1.35E+00	8.41E+01	5.93E-01	2.37E-03	3.42E-02	1.39E+01
300	1.60E+00	8.57E+01	4.94E-01	1.79E-03	4.21E-02	1.22E+01
310	1.89E+00	8.70E+01	4.11E-01	1.35E-03	5.16E-02	1.07E+01
320	2.22E+00	8.81E+01	3.41E-01	1.01E-03	6.30E-02	9.31E+00
330	2.60E+00	8.89E+01	2.83E-01	7.60E-04	7.65E-02	8.10E+00
340	3.04E+00	8.96E+01	2.34E-01	5.69E-04	9.28E-02	7.03E+00
350	3.54E+00	9.01E+01	1.93E-01	4.26E-04	1.12E-01	6.10E+00
360	4.11E+00	9.03E+01	1.59E-01	3.18E-04	1.35E-01	5.28E+00
370	4.77E+00	9.04E+01	1.31E-01	2.37E-04	1.63E-01	4.56E+00
380	5.51E+00	9.03E+01	1.07E-01	1.77E-04	1.95E-01	3.93E+00
390	6.36E+00	8.99E+01	8.82E-02	1.32E-04	2.33E-01	3.39E+00
400	7.31E+00	8.94E+01	7.22E-02	9.78E-05	2.78E-01	2.91E+00
410	8.38E+00	8.87E+01	5.90E-02	7.26E-05	3.31E-01	2.50E+00
420	9.59E+00	8.78E+01	4.82E-02	5.38E-05	3.93E-01	2.14E+00
430	1.09E+01	8.67E+01	3.93E-02	3.98E-05	4.64E-01	1.83E+00
440	1.24E+01	8.54E+01	3.19E-02	2.94E-05	5.47E-01	1.56E+00
450	1.41E+01	8.39E+01	2.59E-02	2.17E-05	6.43E-01	1.33E+00
460	1.59E+01	8.22E+01	2.10E-02	1.60E-05	7.53E-01	1.13E+00
470	1.79E+01	8.02E+01	1.69E-02	1.17E-05	8.78E-01	9.55E-01
480	2.01E+01	7.80E+01	1.36E-02	8.59E-06	1.02E+00	8.06E-01
490	2.25E+01	7.57E+01	1.09E-02	6.27E-06	1.18E+00	6.79E-01
500	2.50E+01	7.31E+01	8.75E-03	4.57E-06	1.36E+00	5.69E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	2.77E+01	7.03E+01	6.98E-03	3.31E-06	1.56E+00	4.75E-01
520	3.05E+01	6.73E+01	5.54E-03	2.40E-06	1.78E+00	3.96E-01
530	3.34E+01	6.42E+01	4.39E-03	1.73E-06	2.02E+00	3.28E-01
540	3.65E+01	6.09E+01	3.46E-03	1.24E-06	2.29E+00	2.71E-01
550	3.96E+01	5.76E+01	2.71E-03	8.87E-07	2.57E+00	2.23E-01
560	4.28E+01	5.41E+01	2.12E-03	6.32E-07	2.88E+00	1.82E-01
570	4.60E+01	5.06E+01	1.65E-03	4.48E-07	3.20E+00	1.48E-01
580	4.92E+01	4.72E+01	1.28E-03	3.17E-07	3.54E+00	1.20E-01
590	5.23E+01	4.37E+01	9.85E-04	2.23E-07	3.89E+00	9.73E-02
600	5.53E+01	4.03E+01	7.57E-04	1.56E-07	4.26E+00	7.82E-02
610	5.83E+01	3.70E+01	5.79E-04	1.09E-07	4.65E+00	6.26E-02
620	6.11E+01	3.39E+01	4.42E-04	7.60E-08	5.04E+00	5.00E-02
630	6.37E+01	3.08E+01	3.35E-04	5.27E-08	5.44E+00	3.97E-02
640	6.62E+01	2.80E+01	2.51E-04	3.65E-08	5.84E+00	3.15E-02
650	6.85E+01	2.53E+01	1.92E-04	2.51E-08	6.25E+00	2.48E-02
660	7.06E+01	2.28E+01	1.44E-04	1.73E-08	6.67E+00	1.95E-02
670	7.25E+01	2.04E+01	1.08E-04	1.19E-08	7.08E+00	1.53E-02
680	7.42E+01	1.83E+01	8.10E-05	8.13E-09	7.50E+00	1.20E-02
690	7.57E+01	1.63E+01	6.05E-05	5.56E-09	7.91E+00	9.38E-03
700	7.71E+01	1.46E+01	4.52E-05	3.79E-09	8.33E+00	7.32E-03
710	7.83E+01	1.29E+01	3.36E-05	2.58E-09	8.74E+00	5.70E-03
720	7.93E+01	1.15E+01	2.50E-05	1.76E-09	9.16E+00	4.43E-03
730	8.02E+01	1.02E+01	1.86E-05	1.20E-09	9.57E+00	3.44E-03
740	8.10E+01	9.01E+00	1.38E-05	8.13E-10	9.99E+00	2.67E-03
750	8.16E+01	7.96E+00	1.02E-05	5.53E-10	1.04E+01	2.07E-03
760	8.22E+01	7.03E+00	7.58E-06	3.75E-10	1.08E+01	1.60E-03
770	8.26E+01	6.20E+00	5.62E-06	2.55E-10	1.12E+01	1.24E-03
780	8.29E+01	5.46E+00	4.16E-06	1.73E-10	1.17E+01	9.57E-04
790	8.31E+01	4.81E+00	3.08E-06	1.18E-10	1.21E+01	7.40E-04
800	8.33E+01	4.23E+00	2.28E-06	7.98E-11	1.25E+01	5.72E-04

D—82; LAT—40; LON—45, LT—12; F—70, FAV—70, Ap—100, UTI—9

80	5.40E-04	1.21E-03	2.08E+01	8.77E-01	1.68E-05	7.83E+01
90	6.04E-04	3.08E-01	2.04E+01	8.23E-01	1.15E-04	7.84E+01
100	9.51E-04	3.45E+00	1.85E-01	6.72E-01	1.96E-04	7.74E+01
110	2.31E-03	9.94E+00	1.47E+01	4.49E-01	4.41E-04	7.50E+01
120	5.61E-03	1.68E+01	1.10E+01	2.87E-01	7.64E-04	7.19E+01
130	1.22E-02	2.24E+01	8.75E+00	1.93E-01	9.79E-04	6.87E+01
140	2.18E-02	2.72E+01	7.44E+00	1.35E-01	1.11E-03	6.52E+01
150	3.33E-02	3.16E-01	6.51E+00	9.76E-02	1.22E-03	6.18E+01
160	4.76E-02	3.59E+01	5.75E+00	7.30E-02	1.37E-03	5.83E+01
170	6.55E-02	4.01E+01	5.09E+00	5.58E-02	1.58E-03	5.47E+01
180	8.77E-02	4.43E+01	4.49E+00	4.32E-02	1.89E-03	5.11E+01
190	1.15E-01	4.84E+01	3.95E+00	3.37E-02	2.32E-03	4.75E+01
200	1.48E-01	5.24E+01	3.46E+00	2.63E-02	2.90E-03	4.40E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.89E-01	5.63E+01	3.02E+00	2.06E-02	3.65E-03	4.04E+01
220	2.38E-01	6.01E+01	2.62E+00	1.61E-02	4.62E-03	3.70E+01
230	2.96E-01	6.38E+01	2.26E+00	1.25E-02	5.86E-03	3.37E+01
240	3.66E-01	6.72E+01	1.95E+00	9.71E-03	7.41E-03	3.05E+01
250	4.48E-01	7.04E+01	1.67E+00	7.51E-03	9.33E-03	2.75E+01
260	5.44E-01	7.34E+01	1.42E+00	5.80E-03	1.17E-02	2.47E+01
270	6.58E-01	7.61E+01	1.21E+00	4.46E-03	1.46E-02	2.20E+01
280	7.90E-01	7.85E+01	1.03E+00	3.42E-03	1.82E-02	1.96E+01
290	9.44E-01	8.08E+01	8.65E-01	2.61E-03	2.25E-02	1.74E+01
300	1.12E+00	8.27E+01	7.28E-01	1.99E-03	2.78E-02	1.54E+01
310	1.33E+00	8.44E+01	6.13E-01	1.52E-03	3.42E-02	1.36E+01
320	1.57E+00	8.59E+01	5.13E-01	1.15E-03	4.18E-02	1.19E+01
330	1.85E+00	8.72E+01	4.28E-01	8.72E-04	5.09E-02	1.05E+01
340	2.16E+00	8.83E+01	3.57E-01	6.59E-04	6.19E-02	9.16E+00
350	2.53E+00	8.91E+01	2.96E-01	4.98E-04	7.49E-02	8.00E+00
360	2.94E+00	8.98E+01	2.46E-01	3.75E-04	9.05E-02	6.97E+00
370	3.42E+00	9.02E+01	2.04E-01	2.82E-04	1.09E-01	6.06E+00
380	3.96E+00	9.05E+01	1.69E-01	2.12E-04	1.31E-01	5.26E+00
390	4.58E+00	9.06E+01	1.40E-01	1.59E-04	1.57E-01	4.56E+00
400	5.28E+00	9.05E+01	1.15E-01	1.20E-04	1.87E-01	3.95E+00
410	6.07E+00	9.02E+01	9.50E-02	8.97E-05	2.23E-01	3.41E+00
420	6.96E+00	8.97E+01	7.82E-02	6.71E-05	2.65E-01	2.95E+00
430	7.96E+00	8.91E+01	6.42E-02	5.02E-05	3.15E-01	2.51E+00
440	9.09E+00	8.83E+01	5.27E-02	3.75E-05	3.72E-01	2.18E+00
450	1.03E+01	8.73E+01	4.32E-02	2.79E-05	4.39E-01	1.88E+00
460	1.17E+01	8.61E+01	3.53E-02	2.08E-05	5.16E-01	1.61E+00
470	1.33E+01	8.47E+01	2.88E-02	1.55E-05	6.05E-01	1.37E+00
480	1.50E+01	8.31E+01	2.35E-02	1.15E-05	7.06E-01	1.17E+00
490	1.69E+01	8.13E+01	1.91E-02	8.49E-06	8.23E-01	9.98E-01
500	1.89E+01	7.93E+01	1.54E-02	6.27E-06	9.54E-01	8.47E-01
510	2.11E+01	7.71E+01	1.25E-02	4.62E-06	1.10E+00	7.16E-01
520	2.35E+01	7.46E+01	1.01E-02	3.39E-06	1.27E+00	6.04E-01
530	2.60E+01	7.20E+01	8.07E-03	2.49E-06	1.46E+00	5.08E-01
540	2.87E+01	6.92E+01	6.46E-03	1.82E-06	1.66E+00	4.26E-01
550	3.15E+01	6.63E+01	5.15E-03	1.32E-06	1.89E+00	3.55E-01
560	3.44E+01	6.32E+01	4.09E-03	9.59E-07	2.13E+00	2.96E-01
570	3.74E+01	6.00E+01	3.24E-03	6.93E-07	2.40E+00	2.45E-01
580	4.05E+01	5.66E+01	2.55E-03	4.99E-07	2.69E+00	2.02E-01
590	4.36E+01	5.33E+01	2.01E-03	3.58E-07	2.99E+00	1.66E-01
600	4.67E+01	4.99E+01	1.57E-03	2.56E-07	3.32E+00	1.36E-01
610	4.98E+01	4.65E+01	1.22E-03	1.82E-07	3.66E+00	1.10E-01
620	5.28E+01	4.31E+01	9.47E-04	1.29E-07	4.01E+00	8.96E-02
630	5.57E+01	3.98E+01	7.32E-04	9.13E-08	4.38E+00	7.24E-02
640	5.86E+01	3.66E+01	5.63E-04	6.43E-08	4.76E+00	5.82E-02
650	6.13E+01	3.35E+01	4.32E-04	4.51E-08	5.15E+00	4.67E-02
660	6.38E+01	3.06E+01	3.30E-04	3.15E-08	5.54E+00	3.73E-02
670	6.62E+01	2.78E+01	2.51E-04	2.20E-08	5.94E+00	2.97E-02
680	6.85E+01	2.52E+01	1.91E-04	1.53E-08	6.35E+00	2.36E-02
690	7.05E+01	2.27E+01	1.45E-04	1.06E-08	6.76E+00	1.87E-02
700	7.21E+01	2.05E+01	1.09E-04	7.36E-09	7.17E+00	1.47E-02

Продолжение табл. 16

$x, \text{ км}$	He/S, %	O/S, %	O/S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	7.40E+01	1.84E+01	8.25E-05	5.08E-09	7.58E+00	1.16E-02
720	7.56E+01	1.65E+01	6.21E-05	3.51E-09	7.99E+00	9.12E-03
730	7.69E+01	1.47E+01	4.66E-05	2.42E-09	8.40E+00	7.16E-03
740	7.81E+01	1.31E+01	3.50E-05	1.66E-09	8.81E+00	5.61E-03
750	7.91E+01	1.17E+01	2.62E-05	1.14E-09	9.22E+00	4.39E-03
760	8.00E+01	1.04E+01	1.96E-05	7.85E-10	9.63E+00	3.43E-03
770	8.08E+01	9.21E+00	1.47E-05	5.39E-10	1.00E+01	2.67E-03
780	8.14E+01	8.16E+00	1.10E-05	3.69E-10	1.04E+01	2.09E-03
790	8.19E+01	7.23E+00	8.18E-06	2.53E-10	1.09E+01	1.63E-03
800	8.23E+01	6.40E+00	6.11E-06	1.74E-10	1.13E+01	1.27E-03

D-82; LAT-80; LON-45; LT-12; F-70; FAV-70; Ap-100; UT1-9

80	5.35E-04	9.70E-04	2.09E+01	9.65E-01	1.62E-05	7.81E+01
90	5.89E-04	2.40E-01	2.07E+01	9.60E-01	1.08E-04	7.81E+01
100	9.45E-04	2.64E+00	1.94E+01	8.51E-01	1.95E-04	7.71E+01
110	2.04E-03	7.00E+00	1.73E+01	6.86E-01	3.79E-04	7.50E+01
120	3.79E-03	1.08E+01	1.55E+01	5.59E-01	5.27E-04	7.31E+01
130	6.00E-03	1.38E+01	1.40E+01	4.69E-01	6.27E-04	7.17E+01
140	8.89E-03	1.62E+01	1.29E+01	4.01E-01	6.81E-04	7.05E+01
150	1.30E-02	1.85E+01	1.19E+01	3.44E-01	7.32E-04	6.92E+01
160	1.85E-02	2.08E+01	1.11E+01	2.94E-01	8.11E-04	6.78E+01
170	2.56E-02	2.31E+01	1.03E+01	2.50E-01	9.34E-04	6.64E+01
180	3.45E-02	2.54E+01	9.53E+00	2.12E-01	1.12E-03	6.48E+01
190	4.58E-02	2.79E+01	8.82E+00	1.79E-01	1.38E-03	6.30E+01
200	6.00E-02	3.06E+01	8.15E+00	1.50E-01	1.74E-03	6.11E+01
210	7.75E-02	3.33E+01	7.51E+00	1.26E-01	2.21E-03	5.90E+01
220	9.92E-02	3.62E+01	6.89E+00	1.06E-01	2.84E-03	5.67E+01
230	1.26E-01	3.91E+01	6.30E+00	8.81E-02	3.65E-03	5.43E+01
240	1.59E-01	4.22E+01	5.74E+00	7.34E-02	4.68E-03	5.18E+01
250	1.98E-01	4.53E+01	5.21E+00	6.08E-02	5.99E-03	4.92E+01
260	2.46E-01	4.85E+01	4.70E+00	5.02E-02	7.63E-03	4.65E+01
270	3.03E-01	5.17E+01	4.23E+00	4.12E-02	9.68E-03	4.37E+01
280	3.70E-01	5.49E+01	3.78E+00	3.38E-02	1.22E-02	4.09E+01
290	4.50E-01	5.80E+01	3.37E+00	2.76E-02	1.53E-02	3.81E+01
300	5.44E-01	6.11E+01	2.99E+00	2.21E-02	1.91E-02	3.53E+01
310	6.62E-01	6.36E+01	2.68E+00	1.84E-02	2.40E-02	3.31E+01
320	7.90E-01	6.65E+01	2.35E+00	1.48E-02	2.96E-02	3.03E+01
330	9.38E-01	6.92E+01	2.06E+00	1.19E-02	3.63E-02	2.77E+01
340	1.11E+00	7.18E+01	1.80E+00	9.48E-03	4.43E-02	2.52E+01
350	1.30E+00	7.42E+01	1.56E+00	7.56E-03	5.38E-02	2.29E+01
360	1.53E+00	7.63E+01	1.35E+00	6.01E-03	6.51E-02	2.07E+01
370	1.78E+00	7.83E+01	1.17E+00	4.76E-03	7.84E-02	1.87E+01
380	2.07E+00	8.00E+01	1.01E+00	3.77E-03	9.41E-02	1.68E+01
390	2.40E+00	8.16E+01	8.65E-01	2.97E-03	1.13E-01	1.51E+01
400	2.77E+00	8.29E+01	7.41E-01	2.34E-03	1.34E-01	1.35E+01

$x, \text{ км}$	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	3.18E+00	8.40E+01	6.34E-01	1.84E-03	1.59E-01	1.20E+01
420	3.65E+00	8.49E+01	5.41E-01	1.44E-03	1.89E-01	1.07E+01
430	4.18E+00	8.56E+01	4.61E-01	1.13E-03	2.23E-01	9.51E+00
440	4.77E+00	8.61E+01	3.92E-01	8.83E-04	2.62E-01	8.44E+00
450	5.43E+00	8.65E+01	3.33E-01	6.90E-04	3.08E-01	7.47E+00
460	6.16E+00	8.66E+01	2.82E-01	5.38E-04	3.61E-01	6.60E+00
470	6.98E+00	8.65E+01	2.39E-01	4.19E-04	4.22E-01	5.82E+00
480	7.88E+00	8.63E+01	2.02E-01	3.25E-04	4.91E-01	5.13E+00
490	8.88E+00	8.59E+01	1.70E-01	2.53E-04	5.71E-01	4.51E+00
500	9.98E+00	8.53E+01	1.43E-01	1.96E-04	6.62E-01	3.95E+00
510	1.12E+01	8.45E+01	1.20E-01	1.52E-04	7.65E-01	3.46E+00
520	1.25E+01	8.35E+01	1.01E-01	1.17E-04	8.82E-01	3.02E+00
530	1.39E+01	8.23E+01	8.45E-02	9.03E-05	1.01E+00	2.64E+00
540	1.55E+01	8.10E+01	7.06E-02	6.96E-05	1.16E+00	2.30E+00
550	1.72E+01	7.94E+01	5.89E-02	5.35E-05	1.33E+00	1.99E+00
560	1.90E+01	7.77E+01	4.90E-02	4.10E-05	1.51E+00	1.73E+00
570	2.09E+01	7.58E+01	4.06E-02	3.14E-05	1.72E+00	1.49E+00
580	2.30E+01	7.38E+01	3.37E-02	2.40E-05	1.94E+00	1.29E+00
590	2.51E+01	7.16E+01	2.78E-02	1.83E-05	2.19E+00	1.11E+00
600	2.74E+01	6.92E+01	2.29E-02	1.39E-05	2.46E+00	9.49E-01
610	2.97E+01	6.67E+01	1.88E-02	1.05E-05	2.76E+00	8.11E-01
620	3.22E+01	6.40E+01	1.54E-02	7.97E-06	3.07E+00	6.91E-01
630	3.47E+01	6.13E+01	1.26E-02	6.01E-06	3.41E+00	5.87E-01
640	3.73E+01	5.84E+01	1.02E-02	4.52E-06	3.78E+00	4.97E-01
650	3.99E+01	5.55E+01	8.30E-03	3.39E-06	4.16E+00	4.19E-01
660	4.25E+01	5.26E+01	6.71E-03	2.53E-06	4.57E+00	3.53E-01
670	4.51E+01	4.96E+01	5.41E-03	1.89E-06	4.99E+00	2.96E-01
680	4.77E+01	4.66E+01	4.35E-03	1.40E-06	5.44E+00	2.47E-01
690	5.02E+01	4.37E+01	3.48E-03	1.04E-06	5.90E+00	2.06E-01
700	5.27E+01	4.08E+01	2.78E-03	7.67E-07	6.37E+00	1.71E-01
710	5.51E+01	3.79E+01	2.22E-03	5.66E-07	6.86E+00	1.42E-01
720	5.74E+01	3.52E+01	1.76E-03	4.16E-07	7.35E+00	1.17E-01
730	5.95E+01	3.25E+01	1.39E-03	3.05E-07	7.85E+00	9.63E-02
740	6.16E+01	3.00E+01	1.10E-03	2.23E-07	8.36E+00	7.91E-02
750	6.35E+01	2.75E+01	8.68E-04	1.63E-07	8.88E+00	6.47E-02
760	6.53E+01	2.52E+01	6.83E-04	1.19E-07	9.39E+00	5.29E-02
770	6.70E+01	2.31E+01	5.36E-04	8.62E-08	9.91E+00	4.31E-02
780	6.85E+01	2.10E+01	4.20E-04	6.26E-08	1.04E+01	3.51E-02
790	6.99E+01	1.92E+01	3.28E-04	4.53E-08	1.09E+01	2.85E-02
800	7.11E+01	1.74E+01	2.56E-04	3.28E-08	1.15E+01	2.31E-02

D-82; LAT 40; LON 45; LT 12; F 70; VAV 70; Ap-100; UTI-9

80	5.42E-04	1.19E-03	2.09E+01	9.32E-01	1.70E-05	7.82E+01
90	6.06E-04	3.02E-01	2.06E+01	9.09E-01	1.16E-04	7.82E+01
100	9.45E-04	3.35E+00	1.89E+01	7.90E-01	1.96E-04	7.69E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.33E-03	9.68E+00	1.56E+01	5.64E-01	4.55E-04	7.42E+01
120	5.58E-03	1.64E+01	1.24E+01	3.93E-01	8.17E-04	7.08E+01
130	1.05E-02	2.18E+01	1.03E+01	2.90E-01	1.06E-03	6.76E+01
140	1.72E-02	2.65E+01	8.93E+00	2.22E-01	1.20E-03	6.43E+01
150	2.59E-02	3.08E+01	7.89E+00	1.74E-01	1.33E-03	6.12E+01
160	3.68E-02	3.49E+01	7.02E+00	1.37E-01	1.19E-03	5.79E+01
170	5.05E-02	3.89E+01	6.25E+00	1.09E-01	1.73E-03	5.47E+01
180	6.74E-02	4.29E+01	5.56E+00	8.72E-02	2.06E-03	5.14E+01
190	8.80E-02	4.68E+01	4.94E+00	6.97E-02	2.51E-03	4.81E+01
200	1.13E-01	5.06E+01	4.37E+00	5.57E-02	3.11E-03	4.49E+01
210	1.43E-01	5.43E+01	3.86E+00	4.44E-02	3.89E-03	4.16E+01
220	1.78E-01	5.79E+01	3.39E+00	3.54E-02	4.88E-03	3.85E+01
230	2.21E-01	6.14E+01	2.97E+00	2.81E-02	6.13E-03	3.54E+01
240	2.70E-01	6.47E+01	2.59E+00	2.23E-02	7.67E-03	3.24E+01
250	3.29E-01	6.79E+01	2.26E+00	1.77E-02	9.57E-03	2.95E+01
260	3.97E-01	7.08E+01	1.95E+00	1.39E-02	1.19E-02	2.68E+01
270	4.76E-01	7.36E+01	1.69E+00	1.10E-02	1.47E-02	2.43E+01
280	5.67E-01	7.61E+01	1.45E+00	8.59E-03	1.81E-02	2.19E+01
290	6.72E-01	7.84E+01	1.25E+00	6.72E-03	2.22E-02	1.96E+01
300	7.94E-01	8.05E+01	1.07E+00	5.25E-03	2.71E-02	1.76E+01
310	9.36E-01	8.23E+01	9.14E-01	4.11E-03	3.30E-02	1.58E+01
320	1.10E+00	8.40E+01	7.78E-01	3.19E-03	4.00E-02	1.41E+01
330	1.28E+00	8.55E+01	6.61E-01	2.48E-03	4.82E-02	1.25E+01
340	1.49E+00	8.68E+01	5.60E-01	1.92E-03	5.79E-02	1.11E+01
350	1.72E+00	8.79E+01	4.74E-01	1.49E-03	6.94E-02	9.81E+00
360	1.99E+00	8.89E+01	4.01E-01	1.15E-03	8.30E-02	8.67E+00
370	2.29E+00	8.96E+01	3.38E-01	8.87E-04	9.90E-02	7.65E+00
380	2.64E+00	9.02E+01	2.85E-01	6.84E-04	1.18E-01	6.74E+00
390	3.03E+00	9.07E+01	2.40E-01	5.27E-04	1.40E-01	5.93E+00
400	3.47E+00	9.09E+01	2.02E-01	4.06E-04	1.65E-01	5.22E+00
410	3.96E+00	9.11E+01	1.70E-01	3.12E-04	1.95E-01	4.58E+00
420	4.52E+00	9.11E+01	1.42E-01	2.40E-04	2.30E-01	4.01E+00
430	5.15E+00	9.09E+01	1.19E-01	1.84E-04	2.71E-01	3.52E+00
440	5.84E+00	9.07E+01	9.99E-02	1.41E-04	3.18E-01	3.08E+00
450	6.63E+00	9.02E+01	8.36E-02	1.09E-04	3.72E-01	2.69E+00
460	7.50E+00	8.97E+01	6.99E-02	8.32E-05	4.35E-01	2.34E+00
470	8.47E+00	8.89E+01	5.83E-02	6.37E-05	5.07E-01	2.04E+00
480	9.54E+00	8.80E+01	4.86E-02	4.87E-05	5.90E-01	1.78E+00
490	1.07E+01	8.70E+01	4.04E-02	3.72E-05	6.85E-01	1.51E+00
500	1.20E+01	8.58E+01	3.36E-02	2.84E-05	7.93E-01	1.34E+00
510	1.34E+01	8.45E+01	2.79E-02	2.16E-05	9.16E-01	1.16E+00
520	1.50E+01	8.29E+01	2.31E-02	1.64E-05	1.05E+00	1.00E+00
530	1.67E+01	8.12E+01	1.91E-02	1.25E-05	1.21E+00	8.65E-01
540	1.85E+01	7.93E+01	1.58E-02	9.47E-06	1.39E+00	7.44E-01
550	2.05E+01	7.73E+01	1.30E-02	7.16E-06	1.58E+00	6.39E-01
560	2.25E+01	7.51E+01	1.06E-02	5.40E-06	1.80E+00	5.47E-01
570	2.48E+01	7.27E+01	8.72E-03	4.07E-06	2.04E+00	4.67E-01
580	2.71E+01	7.02E+01	7.12E-03	3.06E-06	2.30E+00	3.98E-01
590	2.95E+01	6.75E+01	5.80E-03	2.29E-06	2.59E+00	3.38E-01
600	3.21E+01	6.47E+01	4.71E-03	1.71E-06	2.90E+00	2.86E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	3.47E+01	6.18E+01	3.81E-03	1.27E-06	3.24E+00	2.41E-01
620	3.74E+01	5.88E+01	3.07E-03	9.46E-07	3.60E+00	2.03E-01
630	4.01E+01	5.58E+01	2.47E-03	7.00E-07	3.98E+00	1.70E-01
640	4.28E+01	5.27E+01	1.98E-03	5.17E-07	4.38E+00	1.42E-01
650	4.55E+01	4.95E+01	1.58E-03	3.80E-07	4.81E+00	1.18E-01
660	4.82E+01	4.64E+01	1.26E-03	2.79E-07	5.25E+00	9.77E-02
670	5.09E+01	4.33E+01	9.97E-04	2.04E-07	5.71E+00	8.07E-02
680	5.35E+01	4.03E+01	7.88E-04	1.49E-07	6.19E+00	6.64E-02
690	5.59E+01	3.73E+01	6.21E-04	1.08E-07	6.67E+00	5.45E-02
700	5.83E+01	3.45E+01	4.88E-04	7.83E-08	7.17E+00	4.46E-02
710	6.06E+01	3.17E+01	3.82E-04	5.66E-08	7.68E+00	3.64E-02
720	6.27E+01	2.91E+01	2.99E-04	4.08E-08	8.19E+00	2.96E-02
730	6.46E+01	2.66E+01	2.33E-04	2.93E-08	8.70E+00	2.40E-02
740	6.65E+01	2.43E+01	1.81E-04	2.11E-08	9.22E+00	1.94E-02
750	6.81E+01	2.21E+01	1.40E-04	1.51E-08	9.74E+00	1.57E-02
760	6.97E+01	2.01E+01	1.09E-04	1.08E-08	1.03E+01	1.26E-02
770	7.11E+01	1.82E+01	8.40E-05	7.70E-09	1.08E+01	1.02E-02
780	7.23E+01	1.64E+01	6.48E-05	5.49E-09	1.13E+01	8.15E-03
790	7.34E+01	1.48E+01	4.99E-05	3.91E-09	1.18E+01	6.53E-03
800	7.43E+01	1.33E+01	3.84E-05	2.78E-09	1.23E+01	5.23E-03

D—82; LAT—80; LON—45; LT—12; F—70; WAV—70; A_p—100; UTI—9

80	5.41E-04	9.17E-04	2.09E+01	9.68E-01	1.76E-05	7.81E+01
90	5.98E-04	2.25E-01	2.08E+01	9.66E-01	1.20E-04	7.80E+01
100	9.39E-04	2.43E+00	2.00E+01	8.65E-01	2.12E-04	7.67E+01
110	2.08E-03	6.47E+00	1.87E+01	6.85E-01	4.49E-04	7.42E+01
120	3.67E-03	9.97E+00	1.78E+01	5.50E-01	6.85E-04	7.17E+01
130	4.25E-03	1.26E+01	1.69E+01	4.63E-01	8.53E-04	7.00E+01
140	5.12E-03	1.47E+01	1.59E+01	4.00E-01	9.68E-04	6.90E+01
150	7.24E-03	1.67E+01	1.49E+01	3.48E-01	1.08E-03	6.81E+01
160	1.02E-02	1.86E+01	1.40E+01	3.03E-01	1.22E-03	6.72E+01
170	1.40E-02	2.04E+01	1.31E+01	2.63E-01	1.42E-03	6.62E+01
180	1.88E-02	2.23E+01	1.23E+01	2.27E-01	1.71E-03	6.51E+01
190	2.47E-02	2.43E+01	1.15E+01	1.96E-01	2.10E-03	6.39E+01
200	3.19E-02	2.63E+01	1.08E+01	1.69E-01	2.62E-03	6.26E+01
210	4.06E-02	2.85E+01	1.01E+01	1.46E-01	3.29E-03	6.12E+01
220	5.13E-02	3.07E+01	9.48E+00	1.26E-01	4.16E-03	5.96E+01
230	6.41E-02	3.30E+01	8.85E+00	1.08E-01	5.24E-03	5.80E+01
240	7.93E-02	3.54E+01	8.24E+00	9.31E-02	6.60E-03	5.61E+01
250	9.74E-02	3.79E+01	7.65E+00	8.01E-02	8.28E-03	5.42E+01
260	1.19E-01	4.05E+01	7.08E+00	6.86E-02	1.03E-02	5.22E+01
270	1.44E-01	4.31E+01	6.54E+00	5.87E-02	1.28E-02	5.01E+01
280	1.73E-01	4.58E+01	6.02E+00	5.01E-02	1.59E-02	4.79E+01
290	2.08E-01	4.85E+01	5.53E+00	4.26E-02	1.95E-02	4.57E+01
300	2.47E-01	5.12E+01	5.06E+00	3.62E-02	2.39E-02	4.34E+01

z, мм	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	2.97E-01	5.33E+01	4.68E+00	3.11E-02	2.95E-02	4.17E+01
320	3.50E-01	5.61E+01	4.25E+00	2.62E-02	3.56E-02	3.93E+01
330	4.09E-01	5.88E+01	3.85E+00	2.21E-02	4.29E-02	3.69E+01
340	4.78E-01	6.14E+01	3.48E+00	1.85E-02	5.14E-02	3.45E+01
350	5.55E-01	6.40E+01	3.13E+00	1.55E-02	6.13E-02	3.23E+01
360	6.42E-01	6.64E+01	2.81E+00	1.30E-02	7.29E-02	3.00E+01
370	7.41E-01	6.87E+01	2.52E+00	1.08E-02	8.64E-02	2.79E+01
380	8.51E-01	7.09E+01	2.25E+00	9.02E-03	1.02E-01	2.59E+01
390	9.75E-01	7.30E+01	2.01E+00	7.49E-03	1.20E-01	2.39E+01
400	1.11E+00	7.49E+01	1.79E+00	6.21E-03	1.41E-01	2.21E+01
410	1.27E+00	7.67E+01	1.59E+00	5.14E-03	1.65E-01	2.03E+01
420	1.44E+00	7.83E+01	1.41E+00	4.25E-03	1.92E-01	1.87E+01
430	1.63E+00	7.98E+01	1.25E+00	3.51E-03	2.23E-01	1.71E+01
440	1.84E+00	8.11E+01	1.10E+00	2.89E-03	2.59E-01	1.57E+01
450	2.08E+00	8.23E+01	9.75E-01	2.38E-03	3.00E-01	1.43E+01
460	2.34E+00	8.34E+01	8.59E-01	1.95E-03	3.46E-01	1.31E+01
470	2.62E+00	8.43E+01	7.56E-01	1.60E-03	3.98E-01	1.19E+01
480	2.93E+00	8.51E+01	6.64E-01	1.32E-03	4.58E-01	1.08E+01
490	3.28E+00	8.58E+01	5.83E-01	1.08E-03	5.25E-01	9.84E+00
500	3.66E+00	8.63E+01	5.11E-01	8.83E-04	6.01E-01	8.93E+00
510	4.07E+00	8.67E+01	4.48E-01	7.22E-04	6.86E-01	8.09E+00
520	4.53E+00	8.70E+01	3.92E-01	5.90E-04	7.83E-01	7.33E+00
530	5.02E+00	8.71E+01	3.43E-01	4.82E-04	8.91E-01	6.63E+00
540	5.57E+00	8.71E+01	2.99E-01	3.93E-04	1.01E+00	5.99E+00
550	6.15E+00	8.70E+01	2.61E-01	3.20E-04	1.15E+00	5.40E+00
560	6.79E+00	8.68E+01	2.27E-01	2.61E-04	1.30E+00	4.87E+00
570	7.48E+00	8.65E+01	1.98E-01	2.12E-04	1.47E+00	4.38E+00
580	8.23E+00	8.60E+01	1.72E-01	1.73E-04	1.66E+00	3.94E+00
590	9.04E+00	8.54E+01	1.49E-01	1.40E-04	1.87E+00	3.54E+00
600	9.91E+00	8.47E+01	1.30E-01	1.14E-04	2.10E+00	3.18E+00
610	1.08E+01	8.38E+01	1.12E-01	9.23E-05	2.35E+00	2.85E+00
620	1.18E+01	8.29E+01	9.73E-02	7.47E-05	2.63E+00	2.55E+00
630	1.29E+01	8.18E+01	8.41E-02	6.05E-05	2.94E+00	2.28E+00
640	1.40E+01	8.06E+01	7.26E-02	4.89E-05	3.28E+00	2.03E+00
650	1.52E+01	7.92E+01	6.26E-02	3.95E-05	3.65E+00	1.81E+00
660	1.65E+01	7.78E+01	5.39E-02	3.18E-05	4.05E+00	1.61E+00
670	1.78E+01	7.62E+01	4.63E-02	2.56E-05	4.49E+00	1.43E+00
680	1.92E+01	7.45E+01	3.97E-02	2.06E-05	4.96E+00	1.27E+00
690	2.07E+01	7.27E+01	3.40E-02	1.65E-05	5.47E+00	1.12E+00
700	2.22E+01	7.08E+01	2.91E-02	1.32E-05	6.01E+00	9.90E-01
710	2.38E+01	6.88E+01	2.48E-02	1.06E-05	6.59E+00	8.73E-01
720	2.54E+01	6.66E+01	2.12E-02	8.46E-06	7.21E+00	7.68E-01
730	2.70E+01	6.44E+01	1.80E-02	6.74E-06	7.87E+00	6.74E-01
740	2.87E+01	6.21E+01	1.53E-02	5.37E-06	8.56E+00	5.91E-01
750	3.04E+01	5.98E+01	1.29E-02	4.26E-06	9.28E+00	5.17E-01
760	3.21E+01	5.74E+01	1.09E-02	3.38E-06	1.00E+01	4.51E-01
770	3.38E+01	5.50E+01	9.21E-03	2.67E-06	1.08E+01	3.92E-01
780	3.55E-01	5.25E+01	7.75E-03	2.11E-06	1.17E+01	3.41E-01
790	3.72E+01	5.00E+01	6.50E-03	1.66E-06	1.25E+01	2.95E-01
800	3.89E+01	4.75E+01	5.45E-03	1.31E-06	1.31E+01	2.55E-01

Широтные вариации состава при средней солнечной активности для условий весеннего равноденствия и северного и осеннего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D=82; LAT=0; LON=45; LT=12; F=150; VAV=150; A _p =100; UT1=9						
80	5.59E-04	1.31E-03	2.08E+01	8.98E-01	1.58E-05	7.83E+01
90	6.15E-04	3.37E-01	2.03E+01	8.61E-01	9.68E-05	7.85E+01
100	9.54E-04	3.78E+00	1.80E+01	7.30E-01	1.46E-04	7.75E+01
110	2.51E-03	1.16E+01	1.32E+01	4.74E-01	3.32E-01	7.47E+01
120	7.77E-03	2.09E+01	8.77E+00	2.87E-01	6.61E-04	7.00E+01
130	1.78E-02	2.78E+01	6.51E+00	1.96E-01	7.68E-04	6.55E+01
140	3.20E-02	3.31E+01	5.37E+00	1.42E-01	7.62E-04	6.13E+01
150	4.71E-02	3.77E+01	4.66E+00	1.07E-01	7.36E-04	5.75E+01
160	6.41E-02	4.19E+01	4.12E+00	8.37E-02	7.31E-04	5.38E+01
170	8.37E-02	4.58E+01	3.66E+00	6.64E-02	7.59E-04	5.01E+01
180	1.06E-01	4.95E+01	3.26E+00	5.35E-02	8.24E-04	4.71E+01
190	1.32E-01	5.30E+01	2.91E+00	4.34E-02	9.26E-04	4.39E+01
200	1.61E-01	5.63E+01	2.60E+00	3.55E-02	1.07E-03	4.09E+01
210	1.94E-01	5.94E+01	2.32E+00	2.91E-02	1.25E-03	3.80E+01
220	2.31E-01	6.24E+01	2.07E+00	2.39E-02	1.47E-03	3.53E+01
230	2.73E-01	6.52E+01	1.84E+00	1.96E-02	1.75E-03	3.27E+01
240	3.21E-01	6.78E+01	1.63E+00	1.61E-02	2.07E-03	3.02E+01
250	3.74E-01	7.03E+01	1.45E+00	1.33E-02	2.46E-03	2.79E+01
260	4.33E-01	7.26E+01	1.29E+00	1.09E-02	2.91E-03	2.57E+01
270	5.00E-01	7.48E+01	1.14E+00	8.96E-03	3.43E-03	2.36E+01
280	5.74E-01	7.68E+01	1.01E+00	7.36E-03	4.01E-03	2.16E+01
290	6.57E-01	7.86E+01	8.90E-01	6.04E-03	4.75E-03	1.98E+01
300	7.50E-01	8.03E+01	7.86E-01	4.96E-03	5.55E-03	1.82E+01
310	8.50E-01	8.19E+01	6.91E-01	4.05E-03	6.47E-03	1.65E+01
320	9.64E-01	8.33E+01	6.08E-01	3.32E-03	7.53E-03	1.51E+01
330	1.09E+00	8.46E+01	5.35E-01	2.72E-03	8.74E-03	1.38E+01
340	1.23E+00	8.57E+01	4.70E-01	2.23E-03	1.01E-02	1.25E+01
350	1.39E+00	8.68E+01	4.13E-01	1.82E-03	1.17E-02	1.14E+01
360	1.56E+00	8.77E+01	3.62E-01	1.49E-03	1.35E-02	1.04E+01
370	1.75E+00	8.85E+01	3.18E-01	1.22E-03	1.56E-02	9.43E+00
380	1.96E+00	8.92E+01	2.78E-01	9.94E-04	1.79E-02	8.55E+00
390	2.19E+00	8.98E+01	2.44E-01	8.12E-04	2.06E-02	7.75E+00
400	2.45E+00	9.03E+01	2.13E-01	6.63E-04	2.36E-02	7.02E+00
410	2.73E+00	9.07E+01	1.86E-01	5.41E-04	2.70E-02	6.36E+00
420	3.03E+00	9.10E+01	1.63E-01	4.41E-04	3.08E-02	5.75E+00
430	3.37E+00	9.12E+01	1.42E-01	3.60E-04	3.52E-02	5.20E+00
440	3.75E+00	9.14E+01	1.24E-01	2.93E-04	4.01E-02	4.70E+00
450	4.15E+00	9.14E+01	1.08E-01	2.39E-04	4.56E-02	4.24E+00
460	4.60E+00	9.14E+01	9.46E-02	1.95E-04	5.18E-02	3.83E+00
470	5.09E+00	9.13E+01	8.25E-02	1.58E-04	5.88E-02	3.45E+00
480	5.62E+00	9.11E+01	7.19E-02	1.29E-04	6.66E-02	3.11E+00
490	6.20E+00	9.09E+01	6.26E-02	1.05E-04	7.54E-02	2.81E+00
500	6.84E+00	9.05E+01	5.45E-02	8.55E-05	8.52E-02	2.53E+00

Продолжение табл. 17

z , км	H_e/S_e	O_1/S_e	O_2/S_e	$\Delta t/S_e$	H/S_e	N_2/S_e
510	7.53E+00	9.01E+01	4.74E-02	6.95E-05	9.62E-02	2.27E+00
520	8.27E+00	8.95E+01	4.12E-02	5.65E-05	1.08E-01	2.04E+00
530	9.08E+00	8.89E+01	3.58E-02	1.59E-05	1.22E-01	1.84E+00
540	9.96E+00	8.82E+01	3.11E-02	3.73E-05	1.37E-01	1.65E+00
550	1.09E+01	8.74E+01	2.70E-02	3.03E-05	1.54E-01	1.48E+00
560	1.19E+01	8.66E+01	2.34E-02	2.46E-05	1.73E-01	1.33E+00
570	1.30E+01	8.56E+01	2.03E-02	2.00E-05	1.93E-01	1.19E+00
580	1.42E+01	8.45E+01	1.76E-02	1.62E-05	2.16E-01	1.06E+00
590	1.54E+01	8.34E+01	1.52E-02	1.31E-05	2.41E-01	9.49E-01
600	1.68E+01	8.21E+01	1.31E-02	1.06E-05	2.68E-01	8.47E-01
610	1.82E+01	8.07E+01	1.13E-02	8.57E-06	2.98E-01	7.55E-01
620	1.97E+01	7.93E+01	9.76E-03	6.92E-06	3.31E-01	6.73E-01
630	2.13E+01	7.77E+01	8.41E-03	5.59E-06	3.66E-01	5.99E-01
640	2.30E+01	7.61E+01	7.23E-03	4.50E-06	4.04E-01	5.32E-01
650	2.47E+01	7.44E+01	6.21E-03	3.63E-06	4.46E-01	4.72E-01
660	2.66E+01	7.25E+01	5.32E-03	2.92E-06	4.91E-01	4.18E-01
670	2.85E+01	7.06E+01	4.56E-03	2.34E-06	5.39E-01	3.69E-01
680	3.05E+01	6.86E+01	3.90E-03	1.88E-06	5.91E-01	3.26E-01
690	3.25E+01	6.66E+01	3.33E-03	1.51E-06	6.46E-01	2.87E-01
700	3.46E+01	6.44E+01	2.84E-03	1.20E-06	7.04E-01	2.53E-01
710	3.68E+01	6.22E+01	2.41E-03	9.61E-07	7.66E-01	2.22E-01
720	3.90E+01	6.00E+01	2.05E-03	7.67E-07	8.32E-01	1.95E-01
730	4.12E+01	5.77E+01	1.74E-03	6.10E-07	9.00E-01	1.70E-01
740	4.35E+01	5.54E+01	1.47E-03	4.85E-07	9.72E-01	1.49E-01
750	4.58E+01	5.31E+01	1.24E-03	3.85E-07	1.05E+00	1.30E-01
760	4.80E+01	5.07E+01	1.05E-03	3.05E-07	1.13E+00	1.13E-01
770	5.03E+01	4.84E+01	8.83E-04	2.41E-07	1.21E+00	9.81E-02
780	5.26E+01	4.61E+01	7.42E-04	1.91E-07	1.29E+00	8.51E-02
790	5.48E+01	4.37E+01	6.23E-04	1.50E-07	1.38E+00	7.36E-02
800	5.70E+01	4.15E+01	5.22E-04	1.18E-07	1.47E+00	6.36E-02

D—82; LAT—40; LON—45; LT—12; F—150; FAV—150; A_p—100; UT1—9

80	5.42E-04	1.29E-03	2.08E+01	8.75E-01	1.45E-05	7.83E+01
90	6.04E-04	3.31E-01	2.03E+01	8.20E-01	9.23E-05	7.85E+01
100	9.52E-04	3.74E+00	1.82E+01	6.69E-01	1.46E-04	7.74E+01
110	2.34E-03	1.09E+01	1.38E+01	4.42E-01	3.02E-04	7.48E+01
120	5.72E-03	1.84E+01	9.85E+00	2.82E-01	4.70E-04	7.14E+01
130	1.21E-02	2.43E+01	7.62E+00	1.90E-01	5.23E-04	6.79E+01
140	2.08E-02	2.89E+01	6.44E+00	1.36E-01	5.09E-04	6.45E+01
150	3.04E-02	3.31E+01	5.68E+00	1.01E-01	4.86E-04	6.11E+01
160	4.14E-02	3.69E+01	5.08E+00	7.81E-02	4.80E-04	5.79E+01
170	5.43E-02	4.06E+01	4.57E+00	6.19E-02	4.98E-04	5.47E+01
180	6.92E-02	4.41E+01	4.12E+00	5.00E-02	5.41E-04	5.17E+01
190	8.65E-02	4.75E+01	3.71E+00	4.09E-02	6.10E-04	4.87E+01
200	1.06E-01	5.08E+01	3.34E+00	3.36E-02	7.05E-04	4.57E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H S, %	N ₂ S, %
210	1.29E-01	5.40E+01	3.01E+00	2.78E-02	8.29E-04	4.29E+01
220	1.55E-01	5.70E+01	2.70E+00	2.30E-02	9.84E-04	4.01E+01
230	1.84E-01	6.00E+01	2.43E+00	1.90E-02	1.17E-03	3.74E+01
240	2.17E-01	6.28E+01	2.17E+00	1.58E-02	1.40E-03	3.48E+01
250	2.55E-01	6.54E+01	1.94E+00	1.31E-02	1.67E-03	3.24E+01
260	2.97E-01	6.80E+01	1.73E+00	1.08E-02	1.99E-03	3.00E+01
270	3.44E-01	7.04E+01	1.55E+00	8.96E-03	2.36E-03	2.77E+01
280	3.98E-01	7.26E+01	1.38E+00	7.40E-03	2.79E-03	2.56E+01
290	4.57E-01	7.47E+01	1.22E+00	6.11E-03	3.29E-03	2.36E+01
300	5.24E-01	7.67E+01	1.08E+00	5.04E-03	3.87E-03	2.17E+01
310	5.97E-01	7.85E+01	9.58E-01	4.15E-03	4.53E-03	1.99E+01
320	6.80E-01	8.02E+01	8.48E-01	3.41E-03	5.29E-03	1.83E+01
330	7.72E-01	8.18E+01	7.49E-01	2.81E-03	6.17E-03	1.67E+01
340	8.75E-01	8.32E+01	6.61E-01	2.31E-03	7.17E-03	1.53E+01
350	9.88E-01	8.45E+01	5.83E-01	1.90E-03	8.32E-03	1.40E+01
360	1.11E+00	8.56E+01	5.13E-01	1.56E-03	9.63E-03	1.27E+01
370	1.25E+00	8.67E+01	4.51E-01	1.28E-03	1.11E-02	1.16E+01
380	1.41E+00	8.76E+01	3.97E-01	1.05E-03	1.28E-02	1.06E+01
390	1.58E+00	8.85E+01	3.48E-01	8.56E-04	1.48E-02	9.60E+00
400	1.77E+00	8.92E+01	3.06E-01	7.01E-04	1.70E-02	8.72E+00
410	1.97E+00	8.98E+01	2.68E-01	5.73E-04	1.95E-02	7.92E+00
420	2.20E+00	9.04E+01	2.35E-01	4.69E-04	2.23E-02	7.18E+00
430	2.45E+00	9.08E+01	2.06E-01	3.84E-04	2.55E-02	6.51E+00
440	2.73E+00	9.12E+01	1.80E-01	3.13E-04	2.91E-02	5.90E+00
450	3.03E+00	9.14E+01	1.58E-01	2.56E-04	3.31E-02	5.34E+00
460	3.37E+00	9.16E+01	1.38E-01	2.09E-04	3.77E-02	4.83E+00
470	3.73E+00	9.17E+01	1.20E-01	1.71E-04	4.29E-02	4.37E+00
480	4.13E+00	9.18E+01	1.05E-01	1.40E-04	4.88E-02	3.95E+00
490	4.57E+00	9.17E+01	9.19E-02	1.14E-04	5.53E-02	3.57E+00
500	5.05E+00	9.16E+01	8.02E-02	9.29E-05	6.27E-02	3.22E+00
510	5.57E+00	9.14E+01	7.00E-02	7.58E-05	7.09E-02	2.90E+00
520	6.14E+00	9.11E+01	6.10E-02	6.18E-05	8.01E-02	2.62E+00
530	6.76E+00	9.07E+01	5.32E-02	5.04E-05	9.04E-02	2.36E+00
540	7.44E+00	9.03E+01	4.63E-02	4.11E-05	1.02E-01	2.13E+00
550	8.17E+00	8.98E+01	4.03E-02	3.35E-05	1.15E-01	1.91E+00
560	8.96E+00	8.92E+01	3.51E-02	2.73E-05	1.29E-01	1.72E+00
570	9.81E+00	8.85E+01	3.05E-02	2.22E-05	1.45E-01	1.55E+00
580	1.07E+01	8.77E+01	2.65E-02	1.81E-05	1.62E-01	1.39E+00
590	1.17E+01	8.68E+01	2.30E-02	1.47E-05	1.82E-01	1.25E+00
600	1.28E+01	8.59E+01	2.00E-02	1.20E-05	2.03E-01	1.12E+00
610	1.39E+01	8.48E+01	1.73E-02	9.71E-06	2.27E-01	1.00E+00
620	1.52E+01	8.37E+01	1.50E-02	7.88E-06	2.53E-01	8.96E-01
630	1.65E+01	8.25E+01	1.30E-02	6.40E-06	2.81E-01	8.01E-01
640	1.78E+01	8.11E+01	1.12E-02	5.18E-06	3.12E-01	7.15E-01
650	1.93E+01	7.97E+01	9.71E-03	4.20E-06	3.46E-01	6.38E-01
660	2.08E+01	7.82E+01	8.38E-03	3.40E-06	3.83E-01	5.69E-01
670	2.25E+01	7.66E+01	7.22E-03	2.75E-06	4.23E-01	5.06E-01

Продолжение табл. 17

z, км	He/S, %	O/S, %	O ₂ /S	Ar/S, %	H S,	N ₂ S, %
680	2.42E+01	7.49E+01	6.21E-03	2.22E-06	4.67E-01	4.49E-01
690	2.60E+01	7.31E+01	5.34E-03	1.79E-06	5.13E-01	3.99E-01
700	2.78E+01	7.12E+01	4.58E-03	1.44E-06	5.63E-01	3.53E-01
710	2.98E+01	6.93E+01	3.93E-03	1.16E-06	6.17E-01	3.12E-01
720	3.18E+01	6.73E+01	3.36E-03	9.30E-07	6.74E-01	2.76E-01
730	3.38E+01	6.52E+01	2.87E-03	7.46E-07	7.35E-01	2.43E-01
740	3.60E+01	6.30E+01	2.45E-03	5.98E-07	8.00E-01	2.14E-01
750	3.81E+01	6.08E+01	2.08E-03	4.78E-07	8.68E-01	1.88E-01
760	4.03E+01	5.86E+01	1.77E-03	3.82E-07	9.40E-01	1.65E-01
770	4.25E+01	5.63E+01	1.50E-03	3.04E-07	1.02E+00	1.44E-01
780	4.48E+01	5.40E+01	1.27E-03	2.42E-07	1.09E+00	1.26E-01
790	4.70E+01	5.17E+01	1.08E-03	1.93E-07	1.18E+00	1.10E-01
800	4.93E+01	4.94E+01	9.09E-04	1.53E-07	1.26E+00	9.58E-02

D-82; LAT-80; LON-45; LT-12; F-150; FAV-150; A_p-100; UT1-9

83	5.37E-04	1.03E-03	2.09E+01	9.62E-01	1.38E-05	7.82E+01
90	5.88E-04	2.57E-01	2.06E+01	9.59E-01	8.55E-05	7.82E+01
100	9.47E-04	2.85E+00	1.91E+01	8.49E-01	1.44E-01	7.72E+01
110	2.11E-03	7.67E+00	1.64E+01	6.79E-01	2.62E-04	7.52E+01
120	3.94E-03	1.20E+01	1.40E+01	5.53E-01	3.26E-01	7.35E+01
130	6.03E-03	1.51E+01	1.24E+01	4.69E-01	3.38E-01	7.20E+01
140	8.57E-03	1.76E+01	1.13E+01	4.06E-01	3.17E-01	7.07E+01
150	1.21E-02	1.98E+01	1.05E+01	3.55E-01	2.96E-01	6.93E+01
160	1.65E-02	2.19E+01	9.80E+00	3.10E-01	2.90E-01	6.80E+01
170	2.19E-02	2.39E+01	9.17E+00	2.70E-01	3.00E-04	6.66E+01
180	2.83E-02	2.60E+01	8.60E+00	2.35E-01	3.28E-04	6.52E+01
190	3.59E-02	2.81E+01	8.07E+00	2.05E-01	3.73E-04	6.36E+01
200	4.49E-02	3.02E+01	7.56E+00	1.78E-01	4.37E-04	6.20E+01
210	5.54E-02	3.24E+01	7.09E+00	1.55E-01	5.21E-04	6.03E+01
220	6.79E-02	3.46E+01	6.62E+00	1.35E-01	6.29E-04	5.86E+01
230	8.24E-02	3.69E+01	6.18E+00	1.17E-01	7.63E-04	5.67E+01
240	9.93E-02	3.93E+01	5.76E+00	1.01E-01	9.27E-04	5.47E+01
250	1.19E-01	4.17E+01	5.35E+00	8.80E-02	1.13E-03	5.27E+01
260	1.42E-01	4.42E+01	4.97E+00	7.60E-02	1.36E-03	5.07E+01
270	1.67E-01	4.66E+01	4.59E+00	6.56E-02	1.65E-03	4.85E+01
280	1.97E-01	4.91E+01	4.24E+00	5.66E-02	1.99E-03	4.64E+01
290	2.31E-01	5.16E+01	3.91E+00	4.87E-02	2.38E-03	4.42E+01
300	2.70E-01	5.41E+01	3.59E+00	4.18E-02	2.85E-03	4.20E+01
310	3.16E-01	5.61E+01	3.32E+00	3.61E-02	3.42E-03	4.02E+01
320	3.65E-01	5.86E+01	3.03E+00	3.08E-02	4.05E-03	3.79E+01
330	4.21E-01	6.10E+01	2.76E+00	2.63E-02	4.78E-03	3.58E+01
340	4.83E-01	6.34E+01	2.51E+00	2.24E-02	5.62E-03	3.36E+01
350	5.53E-01	6.56E+01	2.28E+00	1.90E-02	6.59E-03	3.15E+01
360	6.30E-01	6.78E+01	2.06E+00	1.61E-02	7.71E-03	2.95E+01
370	7.17E-01	6.99E+01	1.87E+00	1.36E-02	8.99E-03	2.75E+01
380	8.13E-01	7.18E+01	1.68E+00	1.15E-02	1.04E-02	2.57E+01
390	9.20E-01	7.37E+01	1.52E+00	9.73E-03	1.21E-02	2.39E+01
400	1.04E+00	7.54E+01	1.36E+00	8.20E-03	1.40E-02	2.22E+01

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H S, %	N ₂ S, %
410	1.17E+00	7.70E+01	1.22E+00	6.90E-03	1.61E-02	2.06E+01
420	1.31E+00	7.85E+01	1.10E+00	5.80E-03	1.86E-02	1.90E+01
430	1.47E+00	7.99E+01	9.82E-01	4.87E-03	2.13E-02	1.76E+01
440	1.64E+00	8.12E+01	8.78E-01	4.08E-03	2.44E-02	1.62E+01
450	1.84E+00	8.24E+01	7.84E-01	3.42E-03	2.79E-02	1.50E+01
460	2.05E+00	8.34E+01	6.99E-01	2.86E-03	3.19E-02	1.38E+01
470	2.28E+00	8.44E+01	6.23E-01	2.39E-03	3.63E-02	1.27E+01
480	2.53E+00	8.52E+01	5.54E-01	2.00E-03	4.13E-02	1.16E+01
490	2.80E+00	8.60E+01	4.93E-01	1.67E-03	4.69E-02	1.07E+01
500	3.10E+00	8.66E+01	4.38E-01	1.39E-03	5.31E-02	9.80E+00
510	3.43E+00	8.71E+01	3.89E-01	1.16E-03	6.01E-02	8.98E+00
520	3.78E+00	8.76E+01	3.45E-01	9.68E-04	6.79E-02	8.22E+00
530	4.17E+00	8.79E+01	3.06E-01	8.06E-04	7.66E-02	7.51E+00
540	4.59E+00	8.82E+01	2.71E-01	6.71E-04	8.63E-02	6.87E+00
550	5.05E+00	8.83E+01	2.40E-01	5.59E-04	9.71E-02	6.27E+00
560	5.54E+00	8.84E+01	2.12E-01	4.65E-04	1.09E-01	5.72E+00
570	6.08E+00	8.84E+01	1.87E-01	3.86E-04	1.22E-01	5.21E+00
580	6.65E+00	8.83E+01	1.66E-01	3.21E-04	1.37E-01	4.75E+00
590	7.28E+00	8.81E+01	1.46E-01	2.66E-04	1.54E-01	4.32E+00
600	7.95E+00	8.78E+01	1.29E-01	2.21E-04	1.72E-01	3.93E+00
610	8.67E+00	8.74E+01	1.14E-01	1.84E-04	1.92E-01	3.58E+00
620	9.45E+00	8.70E+01	1.00E-01	1.52E-04	2.13E-01	3.25E+00
630	1.03E+01	8.64E+01	8.83E-02	1.26E-04	2.38E-01	2.95E+00
640	1.12E+01	8.58E+01	7.77E-02	1.05E-04	2.64E-01	2.67E+00
650	1.21E+01	8.51E+01	6.83E-02	8.65E-05	2.93E-01	2.42E+00
660	1.31E+01	8.43E+01	6.00E-02	7.16E-05	3.25E-01	2.19E+00
670	1.42E+01	8.34E+01	5.27E-02	5.92E-05	3.60E-01	1.98E+00
680	1.54E+01	8.24E+01	4.62E-02	4.89E-05	3.97E-01	1.79E+00
690	1.66E+01	8.13E+01	4.05E-02	4.04E-05	4.38E-01	1.62E+00
700	1.79E+01	8.02E+01	3.54E-02	3.33E-05	4.83E-01	1.46E+00
710	1.92E+01	7.89E+01	3.10E-02	2.75E-05	5.31E-01	1.31E+00
720	2.06E+01	7.76E+01	2.71E-02	2.26E-05	5.83E-01	1.18E+00
730	2.21E+01	7.62E+01	2.36E-02	1.86E-05	6.39E-01	1.06E+00
740	2.37E+01	7.47E+01	2.06E-02	1.53E-05	6.99E-01	9.54E-01
750	2.53E+01	7.31E+01	1.79E-02	1.26E-05	7.64E-01	8.56E-01
760	2.70E+01	7.14E+01	1.56E-02	1.03E-05	8.32E-01	7.66E-01
770	2.87E+01	6.97E+01	1.36E-02	8.46E-06	9.06E-01	6.85E-01
780	3.05E+01	6.79E+01	1.18E-02	6.93E-06	9.84E-01	6.12E-01
790	3.24E+01	6.60E+01	1.02E-02	5.68E-06	1.07E+00	5.46E-01
800	3.43E+01	6.41E+01	8.82E-03	4.63E-06	1.15E+00	4.86E-01

D-82; LAT-40; LON-45; LT-12; F-150; FΔV-150; A_p-100; UT1-9

80	5.45E-01	1.28E-03	2.08E+01	9.29E-01	1.48E-05	7.82E+01
90	6.07E-04	3.27E-01	2.64E+01	9.07E-01	9.39E-05	7.83E+01
100	9.46E-04	3.67E+00	1.86E+01	7.86E-01	1.45E-04	7.70E+01

Продолжение табл. 17

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H S,	N ₂ S, %
110	2.36E-03	1.07E+01	1.47E+01	5.55E-01	3.10E-04	7.40E+01
120	5.72E-03	1.82E+01	1.11E+01	3.84E-01	5.02E-04	7.03E+01
130	1.06E-02	2.40E+01	8.95E+00	2.87E-01	5.63E-04	6.68E+01
140	1.69E-02	2.86E+01	7.71E+00	2.23E-01	5.51E-04	6.34E+01
150	2.43E-02	3.27E+01	6.84E+00	1.79E-01	5.30E-04	6.03E+01
160	3.31E-02	3.65E+01	6.16E+00	1.45E-01	5.25E-04	5.72E+01
170	4.33E-02	4.00E+01	5.56E+00	1.19E-01	5.45E-04	5.43E+01
180	5.52E-02	4.35E+01	5.03E+00	9.88E-02	5.91E-04	5.14E+01
190	6.88E-02	4.68E+01	4.55E+00	8.21E-02	6.65E-04	4.85E+01
200	8.43E-02	4.99E+01	4.12E+00	6.85E-02	7.67E-04	4.58E+01
210	1.02E-01	5.30E+01	3.73E+00	5.72E-02	8.99E-04	4.31E+01
220	1.22E-01	5.60E+01	3.37E+00	4.79E-02	1.06E-03	4.05E+01
230	1.44E-01	5.88E+01	3.04E+00	4.01E-02	1.26E-03	3.80E+01
240	1.70E-01	6.15E+01	2.75E+00	3.36E-02	1.50E-03	3.55E+01
250	1.98E-01	6.41E+01	2.47E+00	2.82E-02	1.77E-03	3.32E+01
260	2.30E-01	6.66E+01	2.22E+00	2.36E-02	2.10E-03	3.09E+01
270	2.65E-01	6.90E+01	2.00E+00	1.97E-02	2.48E-03	2.88E+01
280	3.06E-01	7.12E+01	1.79E+00	1.65E-02	2.92E-03	2.67E+01
290	3.50E-01	7.33E+01	1.60E+00	1.38E-02	3.42E-03	2.48E+01
300	3.99E-01	7.52E+01	1.43E+00	1.15E-02	3.99E-03	2.29E+01
310	4.53E-01	7.71E+01	1.28E+00	9.58E-03	4.65E-03	2.12E+01
320	5.14E-01	7.88E+01	1.14E+00	7.99E-03	5.40E-03	1.95E+01
330	5.80E-01	8.04E+01	1.02E+00	6.65E-03	6.25E-03	1.80E+01
340	6.54E-01	8.18E+01	9.06E-01	5.54E-03	7.23E-03	1.66E+01
350	7.36E-01	8.32E+01	8.06E-01	4.61E-03	8.33E-03	1.53E+01
360	8.25E-01	8.44E+01	7.16E-01	3.83E-03	9.59E-03	1.40E+01
370	9.24E-01	8.56E+01	6.36E-01	3.18E-03	1.10E-02	1.29E+01
380	1.03E+00	8.66E+01	5.64E-01	2.64E-03	1.26E-02	1.18E+01
390	1.15E+00	8.75E+01	5.00E-01	2.19E-03	1.44E-02	1.08E+01
400	1.28E+00	8.84E+01	4.43E-01	1.82E-03	1.65E-02	9.88E+00
410	1.43E+00	8.91E+01	3.92E-01	1.51E-03	1.88E-02	9.04E+00
420	1.59E+00	8.98E+01	3.47E-01	1.25E-03	2.14E-02	8.26E+00
430	1.76E+00	9.04E+01	3.07E-01	1.04E-03	2.43E-02	7.51E+00
440	1.95E+00	9.09E+01	2.71E-01	8.60E-04	2.76E-02	6.89E+00
450	2.16E+00	9.13E+01	2.39E-01	7.12E-04	3.12E-02	6.28E+00
460	2.38E+00	9.16E+01	2.11E-01	5.90E-04	3.54E-02	5.73E+00
470	2.63E+00	9.19E+01	1.87E-01	4.89E-04	4.00E-02	5.22E+00
480	2.90E+00	9.21E+01	1.65E-01	4.05E-04	4.52E-02	4.76E+00
490	3.20E+00	9.23E+01	1.45E-01	3.35E-04	5.09E-02	4.33E+00
500	3.52E+00	9.24E+01	1.28E-01	2.77E-04	5.74E-02	3.94E+00
510	3.87E+00	9.24E+01	1.13E-01	2.30E-04	6.46E-02	3.59E+00
520	4.25E+00	9.23E+01	9.95E-02	1.90E-04	7.27E-02	3.26E+00
530	4.66E+00	9.22E+01	8.77E-02	1.57E-04	8.17E-02	2.97E+00
540	5.11E+00	9.20E+01	7.72E-02	1.30E-04	9.17E-02	2.69E+00
550	5.60E+00	9.18E+01	6.80E-02	1.08E-04	1.03E-01	2.45E+00
560	6.13E+00	9.15E+01	5.99E-02	8.90E-05	1.15E-01	2.22E+00
570	6.70E+00	9.11E+01	5.27E-02	7.36E-05	1.29E-01	2.02E+00
580	7.31E+00	9.07E+01	4.63E-02	6.08E-05	1.44E-01	1.83E+00
590	7.98E+00	9.02E+01	4.07E-02	5.03E-05	1.61E-01	1.66E+00
600	8.69E+00	8.96E+01	3.58E-02	4.16E-05	1.79E-01	1.50E+00

λ , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	Ne/S, %	N ₂ /S, %
610	9.46E+00	8.89E+01	3.14E-02	3.43E-05	1.99E-01	1.36E+00
620	1.03E+01	8.82E+01	2.76E-02	2.84E-05	2.22E-01	1.23E+00
630	1.12E+01	8.74E+01	2.42E-02	2.34E-05	2.46E-01	1.11E+00
640	1.21E+01	8.66E+01	2.12E-02	1.93E-05	2.73E-01	1.01E+00
650	1.31E+01	8.56E+01	1.86E-02	1.59E-05	3.03E-01	9.10E-01
660	1.42E+01	8.46E+01	1.63E-02	1.31E-05	3.35E-01	8.21E-01
670	1.53E+01	8.35E+01	1.43E-02	1.08E-05	3.71E-01	7.41E-01
680	1.65E+01	8.24E+01	1.25E-02	8.91E-06	4.09E-01	6.67E-01
690	1.78E+01	8.11E+01	1.09E-02	7.33E-06	4.50E-01	6.01E-01
700	1.92E+01	7.98E+01	9.51E-03	6.03E-06	4.96E-01	5.40E-01
710	2.06E+01	7.84E+01	8.29E-03	4.95E-06	5.44E-01	4.85E-01
720	2.21E+01	7.69E+01	7.22E-03	4.07E-06	5.97E-01	4.36E-01
730	2.36E+01	7.53E+01	6.28E-03	3.34E-06	6.53E-01	3.90E-01
740	2.53E+01	7.37E+01	5.46E-03	2.73E-06	7.14E-01	3.50E-01
750	2.70E+01	7.19E+01	4.74E-03	2.24E-06	7.78E-01	3.13E-01
760	2.87E+01	7.02E+01	4.11E-03	1.83E-06	8.48E-01	2.79E-01
770	3.05E+01	6.83E+01	3.56E-03	1.49E-06	9.21E-01	2.49E-01
780	3.24E+01	6.64E+01	3.08E-03	1.22E-06	9.99E-01	2.22E-01
790	3.43E+01	6.44E+01	2.66E-03	9.94E-07	1.08E+00	1.97E-01
800	3.62E+01	6.24E+01	2.30E-03	8.09E-07	1.17E+00	1.75E-01

D-82, LAT 80, LON 65, LT-12; F-150; PA1 150; A₀-100, UTI-9

80	5.45E-04	9.75E-04	2.09E+01	9.65E-01	1.52E-05	7.81E+01
90	5.99E-04	2.40E-01	2.08E+01	9.65E-01	9.58E-05	7.80E+01
100	9.41E-04	2.62E+00	1.97E+01	8.64E-01	1.55E-01	6.88E+01
110	2.15E-03	7.10E+00	1.77E+01	6.79E-01	3.08E-01	7.45E+01
120	3.87E-03	1.10E+01	1.62E+01	5.47E-01	4.23E-04	7.22E+01
130	4.43E-03	1.39E+01	1.50E+01	4.65E-01	4.60E-01	7.06E+01
140	5.21E-03	1.61E+01	1.40E+01	4.07E-01	4.51E-04	6.95E+01
150	7.12E-03	1.80E+01	1.31E+01	3.60E-01	4.38E-04	6.85E+01
160	9.70E-03	1.98E+01	1.24E+01	3.19E-01	4.4E-04	6.75E+01
170	1.28E-02	2.15E+01	1.17E+01	2.82E-01	4.65E-04	6.66E+01
180	1.66E-02	2.31E+01	1.11E+01	2.49E-01	5.13E-04	6.55E+01
190	2.10E-02	2.48E+01	1.05E+01	2.20E-01	5.87E-01	6.45E+01
200	2.61E-02	2.66E+01	9.91E+00	1.91E-01	6.88E-04	6.33E+01
210	3.20E-02	2.84E+01	9.39E+00	1.72E-01	8.18E-04	6.21E+01
220	3.90E-02	3.02E+01	8.88E+00	1.52E-01	9.82E-04	6.07E+01
230	4.70E-02	3.21E+01	8.39E+00	1.34E-01	1.18E-03	5.94E+01
240	5.62E-02	3.40E+01	7.92E+00	1.19E-01	1.42E-03	5.79E+01
250	6.68E-02	3.60E+01	7.46E+00	1.07E-01	1.71E-03	5.63E+01
260	7.88E-02	3.81E+01	7.02E+00	9.31E-02	2.05E-03	5.47E+01
270	9.25E-02	4.02E+01	6.60E+00	8.22E-02	2.46E-03	5.31E+01
280	1.08E-01	4.23E+01	6.19E+00	7.25E-02	2.92E-03	5.13E+01
290	1.25E-01	4.44E+01	5.80E+00	6.39E-02	3.47E-03	4.96E+01
300	1.45E-01	4.66E+01	5.42E+00	5.63E-02	4.10E-03	4.78E+01

Продолжение табл. 17

z , 10 ⁶	H/S, %	O/S, %	O ₂ /S	Ar/S, %	He S, %	Ne S, %
310	1.69E-01	4.83E+01	5.11E+00	5.00E-02	4.88E-03	4.64E+01
320	1.94E-01	5.05E+01	4.76E+00	4.39E-02	5.71E-03	4.45E+01
330	2.21E-01	5.28E+01	4.42E+00	3.84E-02	6.67E-03	4.25E+01
340	2.52E-01	5.50E+01	4.10E+00	3.36E-02	7.76E-03	4.06E+01
350	2.86E-01	5.72E+01	3.79E+00	2.94E-02	9.00E-03	3.87E+01
360	3.24E-01	5.93E+01	3.51E+00	2.56E-02	1.04E-02	3.68E+01
370	3.66E-01	6.14E+01	3.24E+00	2.23E-02	1.20E-02	3.50E+01
380	4.12E-01	6.34E+01	2.98E+00	1.94E-02	1.38E-02	3.32E+01
390	4.63E-01	6.54E+01	2.75E+00	1.69E-02	1.58E-02	3.14E+01
400	5.18E-01	6.72E+01	2.52E+00	1.47E-02	1.81E-02	2.97E+01
410	5.79E-01	6.91E+01	2.32E+00	1.27E-02	2.07E-02	2.80E+01
420	6.46E-01	7.08E+01	2.12E+00	1.10E-02	2.36E-02	2.64E+01
430	7.20E-01	7.25E+01	1.94E+00	9.55E-03	2.68E-02	2.48E+01
440	7.99E-01	7.40E+01	1.78E+00	8.26E-03	3.04E-02	2.34E+01
450	8.86E-01	7.55E+01	1.62E+00	7.13E-03	3.44E-02	2.19E+01
460	9.81E-01	7.69E+01	1.48E+00	6.16E-03	3.89E-02	2.06E+01
470	1.08E+00	7.83E+01	1.35E+00	5.31E-03	4.39E-02	1.93E+01
480	1.20E+00	7.95E+01	1.23E+00	4.57E-03	4.95E-02	1.80E+01
490	1.32E+00	8.07E+01	1.12E+00	3.94E-03	5.56E-02	1.68E+01
500	1.45E+00	8.17E+01	1.01E+00	3.39E-03	6.24E-02	1.57E+01
510	1.59E+00	8.27E+01	9.20E-01	2.91E-03	7.00E-02	1.47E+01
520	1.75E+00	8.37E+01	8.35E-01	2.50E-03	7.83E-02	1.37E+01
530	1.91E+00	8.45E+01	7.57E-01	2.15E-03	8.75E-02	1.27E+01
540	2.09E+00	8.53E+01	6.86E-01	1.85E-03	9.77E-02	1.19E+01
550	2.29E+00	8.60E+01	6.21E-01	1.58E-03	1.09E-01	1.10E+01
560	2.49E+00	8.66E+01	5.62E-01	1.36E-03	1.21E-01	1.02E+01
570	2.72E+00	8.71E+01	5.08E-01	1.17E-03	1.35E-01	9.52E+00
580	2.96E+00	8.76E+01	4.59E-01	9.99E-04	1.50E-01	8.84E+00
590	3.22E+00	8.80E+01	4.15E-01	8.56E-04	1.66E-01	8.20E+00
600	3.50E+00	8.83E+01	3.75E-01	7.33E-04	1.84E-01	7.60E+00
610	3.80E+00	8.86E+01	3.38E-01	6.28E-04	2.04E-01	7.05E+00
620	4.12E+00	8.88E+01	3.05E-01	5.37E-04	2.26E-01	6.53E+00
630	4.47E+00	8.90E+01	2.75E-01	4.60E-04	2.50E-01	6.04E+00
640	4.84E+00	8.90E+01	2.48E-01	3.91E-04	2.76E-01	5.59E+00
650	5.23E+00	8.91E+01	2.24E-01	3.37E-04	3.04E-01	5.17E+00
660	5.65E+00	8.90E+01	2.01E-01	2.88E-04	3.35E-01	4.78E+00
670	6.10E+00	8.89E+01	1.81E-01	2.46E-04	3.69E-01	4.42E+00
680	6.59E+00	8.88E+01	1.63E-01	2.10E-04	4.06E-01	4.08E+00
690	7.10E+00	8.85E+01	1.47E-01	1.80E-04	4.46E-01	3.77E+00
700	7.64E+00	8.83E+01	1.32E-01	1.54E-04	4.89E-01	3.48E+00
710	8.22E+00	8.79E+01	1.19E-01	1.31E-04	5.36E-01	3.21E+00
720	8.83E+00	8.75E+01	1.07E-01	1.12E-04	5.88E-01	2.96E+00
730	9.48E+00	8.70E+01	9.59E-02	9.57E-05	6.43E-01	2.73E+00
740	1.02E+01	8.66E+01	8.61E-02	8.16E-05	7.03E-01	2.51E+00
750	1.09E+01	8.59E+01	7.73E-02	6.97E-05	7.68E-01	2.31E+00
760	1.17E+01	8.53E+01	6.94E-02	5.94E-05	8.38E-01	2.13E+00
770	1.25E+01	8.46E+01	6.22E-02	5.06E-05	9.13E-01	1.96E+00
780	1.33E+01	8.38E+01	5.57E-02	4.32E-05	9.94E-01	1.80E+00
790	1.42E+01	8.30E+01	4.99E-02	3.68E-05	1.08E+00	1.65E+00
800	1.52E+01	8.21E+01	4.47E-02	3.13E-05	1.17E+00	1.51E+00

Широтные вариации состава при высокой солнечной активности для условий
весеннего равноденствия в северном и осеннего в южном полушариях

Z_p 1.5M	H/S	C/S ₁	O ₂ /S ₁	N ₁ /S ₁	H/S ₂	N ₂ /S ₂
D-82; LAT-0; LON-45; LT-12; F-200; FAV-200; A _p -100; UT1-9						
80	5.54E-04	1.36E-03	2.08E+01	8.96E-01	1.41E-05	7.83E+01
90	6.16E-04	3.52E-01	2.02E+01	8.60E-01	8.49E-05	7.86E+01
100	9.54E-04	3.97E+00	1.78E+01	7.27E-01	1.20E-04	7.75E+01
110	2.47E-03	1.22E+01	1.27E+01	4.70E-01	2.59E-04	7.46E+01
120	5.42E-03	2.09E+01	8.44E+00	3.05E-01	3.46E-04	7.03E+01
130	1.21E-02	2.71E+01	6.29E+00	2.19E-01	3.31E-04	6.64E+01
140	2.35E-02	3.20E+01	5.21E+00	1.62E-01	3.00E-04	6.26E+01
150	3.56E-02	3.65E+01	4.53E+00	1.23E-01	2.80E-04	5.88E+01
160	4.94E-02	4.08E+01	4.00E+00	9.60E-02	2.77E-04	5.51E+01
170	6.55E-02	4.48E+01	3.56E+00	7.60E-02	2.89E-04	5.15E+01
180	8.40E-02	4.86E+01	3.17E+00	6.12E-02	3.16E-04	4.81E+01
190	1.06E-01	5.22E+01	2.82E+00	4.95E-02	3.60E-04	4.48E+01
200	1.30E-01	5.55E+01	2.52E+00	4.05E-02	4.16E-04	4.18E+01
210	1.57E-01	5.87E+01	2.26E+00	3.34E-02	4.87E-04	3.89E+01
220	1.86E-01	6.16E+01	2.02E+00	2.77E-02	5.74E-04	3.62E+01
230	2.19E-01	6.43E+01	1.81E+00	2.30E-02	6.76E-04	3.36E+01
240	2.56E-01	6.69E+01	1.62E+00	1.92E-02	7.95E-04	3.12E+01
250	2.96E-01	6.92E+01	1.45E+00	1.60E-02	9.33E-04	2.90E+01
260	3.39E-01	7.14E+01	1.30E+00	1.34E-02	1.09E-03	2.69E+01
270	3.87E-01	7.35E+01	1.17E+00	1.13E-02	1.27E-03	2.50E+01
280	4.39E-01	7.53E+01	1.05E+00	9.45E-03	1.47E-03	2.32E+01
290	4.95E-01	7.71E+01	9.41E-01	7.94E-03	1.70E-03	2.15E+01
300	5.57E-01	7.87E+01	8.44E-01	6.68E-03	1.95E-03	1.99E+01
310	6.21E-01	8.03E+01	7.53E-01	5.60E-03	2.23E-03	1.83E+01
320	6.95E-01	8.17E+01	6.75E-01	4.71E-03	2.55E-03	1.69E+01
330	7.76E-01	8.30E+01	6.05E-01	3.96E-03	2.91E-03	1.57E+01
340	8.64E-01	8.41E+01	5.41E-01	3.33E-03	3.32E-03	1.45E+01
350	9.62E-01	8.52E+01	4.84E-01	2.80E-03	3.78E-03	1.33E+01
360	1.07E+00	8.62E+01	4.33E-01	2.35E-03	4.30E-03	1.23E+01
370	1.18E+00	8.71E+01	3.86E-01	1.98E-03	4.88E-03	1.13E+01
380	1.31E+00	8.79E+01	3.45E-01	1.66E-03	5.53E-03	1.04E+01
390	1.45E+00	8.86E+01	3.08E-01	1.39E-03	6.25E-03	9.59E+00
400	1.59E+00	8.93E+01	2.75E-01	1.17E-03	7.07E-03	8.84E+00
410	1.76E+00	9.01E+01	2.47E-01	9.81E-04	7.93E-03	8.12E+00
420	1.94E+00	9.08E+01	2.19E-01	8.25E-04	8.93E-03	7.45E+00
430	2.13E+00	9.08E+01	1.95E-01	6.92E-04	1.01E-02	6.84E+00
440	2.34E+00	9.12E+01	1.73E-01	5.80E-04	1.13E-02	6.28E+00
450	2.57E+00	9.15E+01	1.54E-01	4.86E-04	1.27E-02	5.76E+00
460	2.82E+00	9.18E+01	1.37E-01	4.07E-04	1.42E-02	5.28E+00
470	3.09E+00	9.19E+01	1.22E-01	3.41E-04	1.60E-02	4.84E+00
480	3.38E+00	9.21E+01	1.08E-01	2.86E-04	1.79E-02	4.43E+00
490	3.70E+00	9.21E+01	9.64E-02	2.40E-04	2.00E-02	4.06E+00
500	4.04E+00	9.21E+01	8.57E-02	2.04E-04	2.23E-02	3.71E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	N ₂ /S, %	H/S, %	N/S, %
510	4.41E+00	9.21E+01	7.61E-02	1.68E-04	2.49E-02	3.40E+00
520	4.82E+00	9.20E+01	6.76E-02	1.41E-04	2.78E-02	3.11E+00
530	5.25E+00	9.18E+01	6.01E-02	1.18E-04	3.09E-02	2.84E+00
540	5.71E+00	9.16E+01	5.33E-02	9.88E-05	3.44E-02	2.60E+00
550	6.22E+00	9.13E+01	4.73E-02	8.27E-05	3.83E-02	2.37E+00
560	6.76E+00	9.10E+01	4.20E-02	6.93E-05	4.25E-02	2.17E+00
570	7.34E+00	9.06E+01	3.72E-02	5.80E-05	4.72E-02	1.98E+00
580	7.96E+00	9.01E+01	3.30E-02	4.85E-05	5.23E-02	1.81E+00
590	8.63E+00	8.96E+01	2.39E-02	4.06E-05	5.80E-02	1.65E+00
600	9.34E+00	8.91E+01	2.59E-02	3.40E-05	6.11E-02	1.50E+00
610	1.01E+01	8.84E+01	2.30E-02	2.84E-05	7.09E-02	1.37E+00
620	1.09E+01	8.77E+01	2.03E-02	2.38E-05	7.83E-02	1.25E+00
630	1.18E+01	8.70E+01	1.80E-02	1.99E-05	8.63E-02	1.13E+00
640	1.27E+01	8.61E+01	1.59E-02	1.66E-05	9.51E-02	1.03E+00
650	1.37E+01	8.52E+01	1.41E-02	1.39E-05	1.05E-01	9.38E-01
660	1.47E+01	8.43E+01	1.24E-02	1.16E-05	1.15E-01	8.52E-01
670	1.58E+01	8.33E+01	1.10E-02	9.66E-06	1.26E-01	7.74E-01
680	1.70E+01	8.22E+01	9.67E-03	8.06E-06	1.38E-01	7.02E-01
690	1.82E+01	8.10E+01	8.52E-03	6.72E-06	1.51E-01	6.37E-01
700	1.95E+01	7.97E+01	7.51E-03	5.60E-06	1.65E-01	5.77E-01
710	2.09E+01	7.84E+01	6.61E-03	4.66E-06	1.81E-01	5.22E-01
720	2.23E+01	7.71E+01	5.81E-03	3.88E-06	1.97E-01	4.72E-01
730	2.37E+01	7.56E+01	5.11E-03	3.22E-06	2.14E-01	4.26E-01
740	2.53E+01	7.41E+01	4.48E-03	2.68E-06	2.33E-01	3.85E-01
750	2.69E+01	7.25E+01	3.93E-03	2.22E-06	2.53E-01	3.47E-01
760	2.85E+01	7.09E+01	3.44E-03	1.84E-06	2.74E-01	3.12E-01
770	3.02E+01	6.92E+01	3.01E-03	1.53E-06	2.96E-01	2.81E-01
780	3.19E+01	6.75E+01	2.64E-03	1.26E-06	3.19E-01	2.52E-01
790	3.37E+01	6.57E+01	2.30E-03	1.05E-06	3.44E-01	2.26E-01
800	3.56E+01	6.39E+01	2.01E-03	8.64E-07	3.71E-01	2.03E-01
D-82; LAT-40; LON-45; LT-12; F-200; FAV-200; A _p -100; UT1-9						
80	5.42E-04	1.34E-03	2.08E+01	8.74E-01	1.33E-05	7.83E+01
90	6.07E-04	3.47E-01	2.03E+01	8.19E-01	8.06E-05	7.86E+01
100	9.53E-04	3.94E+00	1.79E+01	6.67E-01	1.20E-04	7.75E+01
110	2.13E-03	1.15E+01	1.33E+01	4.38E-01	2.17E-04	7.47E+01
120	3.96E-03	1.85E+01	9.47E+00	2.98E-01	2.45E-04	7.17E+01
130	8.14E-03	2.37E+01	7.34E+00	2.12E-01	2.24E-04	6.88E+01
140	1.46E-02	2.78E+01	6.27E+00	1.56E-01	1.94E-04	6.58E+01
150	2.15E-02	3.16E+01	5.57E+00	1.18E-01	1.77E-04	6.27E+01
160	2.96E-02	3.54E+01	5.00E+00	9.20E-02	1.73E-04	5.96E+01
170	3.95E-02	3.91E+01	4.50E+00	7.29E-02	1.80E-04	5.62E+01
180	5.12E-02	4.28E+01	4.05E+00	3.87E-02	1.99E-04	5.31E+01
190	6.53E-02	4.64E+01	3.64E+00	4.77E-02	2.29E-04	4.99E+01
200	8.13E-02	4.98E+01	3.27E+00	3.91E-02	2.68E-04	4.68E+01

z, мм	He S, %	O/S, %	O ₂ S, %	Ar/S, %	H S, %	N S, %
210	9.92E-02	5.30E+01	2.95E+00	3.23E-02	3.18E-04	4.39E+01
220	1.20E-01	5.61E+01	2.65E+00	2.69E-02	3.79E-04	4.11E+01
230	1.43E-01	5.90E+01	2.39E+00	2.24E-02	4.52E-04	3.84E+01
240	1.68E-01	6.17E+01	2.15E+00	1.87E-02	5.38E-04	3.59E+01
250	1.96E-01	6.43E+01	1.94E+00	1.57E-02	6.37E-04	3.35E+01
260	2.27E-01	6.68E+01	1.74E+00	1.32E-02	7.52E-04	3.13E+01
270	2.61E-01	6.90E+01	1.57E+00	1.11E-02	8.82E-04	2.91E+01
280	2.98E-01	7.12E+01	1.41E+00	9.36E-03	1.03E-03	2.71E+01
290	3.39E-01	7.32E+01	1.27E+00	7.89E-03	1.20E-03	2.52E+01
300	3.83E-01	7.50E+01	1.15E+00	6.66E-03	1.38E-03	2.34E+01
310	4.30E-01	7.68E+01	1.03E+00	5.59E-03	1.59E-03	2.17E+01
320	4.83E-01	7.85E+01	9.23E-01	4.72E-03	1.83E-03	2.01E+01
330	5.42E-01	8.00E+01	8.29E-01	3.98E-03	2.10E-03	1.87E+01
340	6.07E-01	8.14E+01	7.44E-01	3.35E-03	2.40E-03	1.73E+01
350	6.78E-01	8.27E+01	6.67E-01	2.82E-03	2.75E-03	1.60E+01
360	7.55E-01	8.39E+01	5.97E-01	2.38E-03	3.14E-03	1.48E+01
370	8.40E-01	8.50E+01	5.35E-01	2.00E-03	3.57E-03	1.36E+01
380	9.33E-01	8.60E+01	4.78E-01	1.68E-03	4.06E-03	1.26E+01
390	1.03E+00	8.69E+01	4.27E-01	1.41E-03	4.61E-03	1.16E+01
400	1.14E+00	8.78E+01	3.83E-01	1.19E-03	5.20E-03	1.07E+01
410	1.26E+00	8.85E+01	3.42E-01	1.00E-03	5.88E-03	9.85E+00
420	1.39E+00	8.92E+01	3.05E-01	8.41E-04	6.64E-03	9.06E+00
430	1.54E+00	8.98E+01	2.72E-01	7.06E-04	7.49E-03	8.33E+00
440	1.69E+00	9.04E+01	2.43E-01	5.93E-04	8.44E-03	7.66E+00
450	1.86E+00	9.09E+01	2.16E-01	4.97E-04	9.50E-03	7.03E+00
460	2.05E+00	9.13E+01	1.93E-01	4.17E-04	1.07E-02	6.46E+00
470	2.25E+00	9.16E+01	1.72E-01	3.50E-04	1.20E-02	5.93E+00
480	2.47E+00	9.19E+01	1.53E-01	2.94E-04	1.35E-02	5.41E+00
490	2.71E+00	9.22E+01	1.36E-01	2.46E-04	1.51E-02	4.98E+00
500	2.96E+00	9.23E+01	1.21E-01	2.07E-04	1.69E-02	4.57E+00
510	3.24E+00	9.24E+01	1.08E-01	1.73E-04	1.89E-02	4.19E+00
520	3.54E+00	9.25E+01	9.57E-02	1.45E-04	2.11E-02	3.83E+00
530	3.87E+00	9.25E+01	8.51E-02	1.22E-04	2.36E-02	3.51E+00
540	4.22E+00	9.25E+01	7.57E-02	1.02E-04	2.63E-02	3.21E+00
550	4.60E+00	9.24E+01	6.73E-02	8.66E-05	2.93E-02	2.94E+00
560	5.02E+00	9.22E+01	5.98E-02	7.18E-05	3.26E-02	2.69E+00
570	5.46E+00	9.20E+01	5.31E-02	6.01E-05	3.63E-02	2.46E+00
580	5.94E+00	9.17E+01	4.72E-02	5.04E-05	4.04E-02	2.25E+00
590	6.45E+00	9.14E+01	4.19E-02	4.22E-05	4.48E-02	2.06E+00
600	7.01E+00	9.10E+01	3.72E-02	3.54E-05	4.97E-02	1.88E+00
610	7.60E+00	9.06E+01	3.30E-02	2.97E-05	5.51E-02	1.71E+00
620	8.24E+00	9.01E+01	2.92E-02	2.48E-05	6.10E-02	1.57E+00
630	8.92E+00	8.96E+01	2.59E-02	2.08E-05	6.75E-02	1.43E+00
640	9.65E+00	8.90E+01	2.30E-02	1.74E-05	7.46E-02	1.30E+00
650	1.04E+01	8.83E+01	2.04E-02	1.46E-05	8.24E-02	1.19E+00
660	1.13E+01	8.76E+01	1.80E-02	1.22E-05	9.08E-02	1.08E+00

Продолжение табл. 18

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ S, %	N ₂ /S, %
670	1.21E+01	8.68E+01	1.60E-02	1.02E-05	1.00E-01	9.85E-01
680	1.31E+01	8.59E+01	1.41E-02	8.54E-06	1.10E-01	8.96E-01
690	1.41E+01	8.50E+01	1.25E-02	7.14E-06	1.21E-01	8.15E-01
700	1.51E+01	8.40E+01	1.10E-02	5.97E-06	1.33E-01	7.41E-01
710	1.62E+01	8.29E+01	9.75E-03	4.99E-06	1.46E-01	6.73E-01
720	1.74E+01	8.18E+01	8.61E-03	4.16E-06	1.59E-01	6.11E-01
730	1.86E+01	8.06E+01	7.59E-03	3.47E-06	1.74E-01	5.54E-01
740	1.99E+01	7.94E+01	6.69E-03	2.90E-06	1.90E-01	5.02E-01
750	2.13E+01	7.80E+01	5.89E-03	2.41E-06	2.07E-01	4.54E-01
760	2.27E+01	7.66E+01	5.18E-03	2.01E-06	2.26E-01	4.11E-01
770	2.42E+01	7.52E+01	4.56E-03	1.67E-06	2.46E-01	3.71E-01
780	2.57E+01	7.37E+01	4.00E-03	1.39E-06	2.67E-01	3.35E-01
790	2.73E+01	7.21E+01	3.51E-03	1.16E-06	2.89E-01	3.02E-01
800	2.90E+01	7.04E+01	3.08E-03	9.59E-07	3.13E-01	2.72E-01

D-82; LAT-80; LON-45; LT-12; F-200; FAV-200; A_p-100; UT1-9

80	5.36E-04	1.07E-03	2.09E+01	9.61E-01	1.26E-05	7.82E+01
90	5.88E-04	2.68E-01	2.05E+01	9.58E-01	7.38E-05	7.82E+01
100	9.48E-04	2.99E+00	1.89E+01	8.48E-01	1.19E-04	7.73E+01
110	2.16E-03	8.12E+00	1.59E+01	6.74E-01	2.09E-04	7.53E+01
120	4.04E-03	1.27E+01	1.32E+01	5.49E-01	2.42E-04	7.36E+01
130	6.05E-03	1.61E+01	1.14E+01	4.67E-01	2.80E-04	7.21E+01
140	8.37E-03	1.86E+01	1.04E+01	4.07E-01	1.97E-04	7.06E+01
150	1.16E-02	2.08E+01	9.61E+00	3.58E-01	1.69E-04	6.92E+01
160	1.55E-02	2.28E+01	9.00E+00	3.16E-01	1.55E-04	6.78E+01
170	2.02E-02	2.48E+01	8.46E+00	2.78E-01	1.51E-04	6.64E+01
180	2.56E-02	2.68E+01	7.96E+00	2.44E-01	1.57E-04	6.50E+01
190	3.19E-02	2.87E+01	7.50E+00	2.15E-01	1.72E-04	6.35E+01
200	3.92E-02	3.07E+01	7.06E+00	1.89E-01	1.95E-04	6.20E+01
210	4.75E-02	3.28E+01	6.65E+00	1.66E-01	2.26E-04	6.04E+01
220	5.71E-02	3.49E+01	6.25E+00	1.46E-01	2.65E-04	5.87E+01
230	6.82E-02	3.70E+01	5.85E+00	1.29E-01	3.14E-04	5.70E+01
240	8.09E-02	3.91E+01	5.50E+00	1.13E-01	3.74E-04	5.52E+01
250	9.52E-02	4.13E+01	5.15E+00	9.96E-02	4.45E-04	5.33E+01
260	1.12E-01	4.35E+01	4.81E+00	8.73E-02	5.29E-04	5.14E+01
270	1.30E-01	4.58E+01	4.49E+00	7.65E-02	6.27E-04	4.95E+01
280	1.51E-01	4.80E+01	4.18E+00	6.70E-02	7.42E-04	4.76E+01
290	1.74E-01	5.03E+01	3.88E+00	5.85E-02	8.75E-04	4.56E+01
300	2.00E-01	5.25E+01	3.60E+00	5.11E-02	1.03E-03	4.38E+01
310	2.32E-01	5.44E+01	3.36E+00	4.48E-02	1.21E-03	4.19E+01
320	2.64E-01	5.67E+01	3.10E+00	3.90E-02	1.42E-03	3.99E+01
330	3.01E-01	5.89E+01	2.86E+00	3.38E-02	1.65E-03	3.79E+01
340	3.41E-01	6.11E+01	2.63E+00	2.93E-02	1.91E-03	3.59E+01
350	3.86E-01	6.32E+01	2.42E+00	2.54E-02	2.21E-03	3.40E+01
360	4.36E-01	6.52E+01	2.22E+00	2.20E-02	2.55E-03	3.21E+01
370	4.90E-01	6.72E+01	2.03E+00	1.90E-02	2.93E-03	3.03E+01
380	5.51E-01	6.91E+01	1.86E+00	1.63E-02	3.36E-03	2.85E+01
390	6.17E-01	7.09E+01	1.69E+00	1.41E-02	3.85E-03	2.68E+01
400	6.90E-01	7.26E+01	1.55E+00	1.21E-02	4.40E-03	2.52E+01

z, км	He S, %	O S, %	O ₂ S, %	Ar S, %	He S, %	N ₂ S, %
410	7.69E-01	7.42E+01	1.41E+00	1.04E-02	5.02E-03	2.36E+01
420	8.57E-01	7.58E+01	1.28E+00	8.94E-03	5.71E-03	2.21E+01
430	9.52E-01	7.72E+01	1.16E+00	7.67E-03	6.48E-03	2.06E+01
440	1.06E+00	7.86E+01	1.06E+00	6.57E-03	7.35E-03	1.93E+01
450	1.17E+00	7.99E+01	9.57E-01	5.62E-03	8.32E-03	1.80E+01
460	1.29E+00	8.11E+01	8.66E-01	4.81E-03	9.39E-03	1.68E+01
470	1.43E+00	8.22E+01	7.84E-01	4.11E-03	1.06E-02	1.56E+01
480	1.57E+00	8.32E+01	7.09E-01	3.51E-03	1.19E-02	1.45E+01
490	1.73E+00	8.41E+01	6.40E-01	3.00E-03	1.34E-02	1.35E+01
500	1.90E+00	8.50E+01	5.78E-01	2.56E-03	1.51E-02	1.25E+01
510	2.09E+00	8.58E+01	5.21E-01	2.18E-03	1.69E-02	1.16E+01
520	2.29E+00	8.65E+01	4.70E-01	1.86E-03	1.89E-02	1.08E+01
530	2.51E+00	8.71E+01	4.23E-01	1.58E-03	2.11E-02	9.97E+00
540	2.74E+00	8.76E+01	3.81E-01	1.35E-03	2.36E-02	9.23E+00
550	3.00E+00	8.81E+01	3.43E-01	1.15E-03	2.63E-02	8.54E+00
560	3.27E+00	8.85E+01	3.08E-01	9.77E-04	2.93E-02	7.89E+00
570	3.57E+00	8.88E+01	2.77E-01	8.32E-04	3.27E-02	7.29E+00
580	3.89E+00	8.91E+01	2.49E-01	7.07E-04	3.63E-02	6.74E+00
590	4.23E+00	8.93E+01	2.24E-01	6.01E-04	4.03E-02	6.22E+00
600	4.60E+00	8.94E+01	2.01E-01	5.11E-04	4.47E-02	5.74E+00
610	4.99E+00	8.95E+01	1.80E-01	4.34E-04	4.96E-02	5.29E+00
620	5.42E+00	8.95E+01	1.62E-01	3.69E-04	5.49E-02	4.88E+00
630	5.87E+00	8.94E+01	1.45E-01	3.13E-04	6.07E-02	4.49E+00
640	6.36E+00	8.93E+01	1.30E-01	2.66E-04	6.71E-02	4.14E+00
650	6.88E+00	8.91E+01	1.16E-01	2.26E-04	7.41E-02	3.81E+00
660	7.44E+00	8.89E+01	1.04E-01	1.92E-04	8.17E-02	3.50E+00
670	8.03E+00	8.86E+01	9.33E-02	1.63E-04	9.01E-02	3.22E+00
680	8.66E+00	8.82E+01	8.35E-02	1.38E-04	9.91E-02	2.96E+00
690	9.34E+00	8.78E+01	7.47E-02	1.17E-04	1.09E-01	2.72E+00
700	1.01E+01	8.73E+01	6.68E-02	9.93E-05	1.20E-01	2.50E+00
710	1.08E+01	8.67E+01	5.97E-02	8.42E-05	1.31E-01	2.29E+00
720	1.16E+01	8.61E+01	5.33E-02	7.13E-05	1.44E-01	2.10E+00
730	1.25E+01	8.54E+01	4.76E-02	6.04E-05	1.58E-01	1.93E+00
740	1.34E+01	8.46E+01	4.26E-02	5.11E-05	1.72E-01	1.77E+00
750	1.43E+01	8.38E+01	3.79E-02	4.33E-05	1.88E-01	1.62E+00
760	1.53E+01	8.29E+01	3.38E-02	3.66E-05	2.06E-01	1.48E+00
770	1.64E+01	8.20E+01	3.01E-02	3.10E-05	2.24E-01	1.35E+00
780	1.75E+01	8.10E+01	2.68E-02	2.62E-05	2.44E-01	1.24E+00
790	1.87E+01	7.99E+01	2.38E-02	2.21E-05	2.65E-01	1.13E+00
800	1.99E+01	7.88E+01	2.12E-02	1.87E-05	2.88E-01	1.03E+00

D—82; LAT—40; LON—45; LT—12; F—200; FAV—200; A₀—100; UT—9

80	5.44E-04	1.34E-03	2.08E+01	9.28E-01	1.36E-05	7.82E+01
90	6.08E-04	3.44E-01	2.04E+01	9.05E-01	8.21E-05	7.84E+01
100	9.46E-04	3.88E+00	1.84E+01	7.84E-01	1.20E-04	7.70E+01

z, км	He/S, %	O/S, %	O/S, %	Ar/S, %	Ne/S, %	N/S, %
110	2.17E-03	1.14E+01	1.42E+01	5.50E-01	2.26E-04	7.38E+01
120	4.05E-03	1.86E+01	1.06E+01	4.01E-01	2.70E-04	7.04E+01
130	7.78E-03	2.41E+01	8.49E+00	3.08E-01	2.61E-04	6.71E+01
140	1.32E-02	2.84E+01	7.34E+00	2.46E-01	2.31E-04	6.40E+01
150	1.91E-02	3.22E+01	6.56E+00	2.00E-01	2.10E-04	6.10E+01
160	2.59E-02	3.59E+01	5.92E+00	1.64E-01	2.03E-04	5.80E+01
170	3.41E-02	3.95E+01	5.35E+00	1.35E-01	2.10E-04	5.50E+01
180	4.38E-02	4.30E+01	4.83E+00	1.12E-01	2.29E-04	5.20E+01
190	5.54E-02	4.65E+01	4.36E+00	9.22E-02	2.62E-04	4.90E+01
200	6.86E-02	4.98E+01	3.94E+00	7.67E-02	3.05E-04	4.61E+01
210	8.32E-02	5.29E+01	3.56E+00	6.41E-02	3.59E-04	4.33E+01
220	9.98E-02	5.59E+01	3.22E+00	5.38E-02	4.26E-04	4.07E+01
230	1.18E-01	5.87E+01	2.91E+00	4.52E-02	5.05E-04	3.82E+01
240	1.39E-01	6.14E+01	2.64E+00	3.82E-02	5.97E-04	3.58E+01
250	1.61E-01	6.39E+01	2.39E+00	3.23E-02	7.02E-04	3.35E+01
260	1.85E-01	6.62E+01	2.16E+00	2.74E-02	8.22E-04	3.14E+01
270	2.11E-01	6.84E+01	1.96E+00	2.33E-02	9.57E-04	2.94E+01
280	2.40E-01	7.05E+01	1.78E+00	1.98E-02	1.11E-03	2.75E+01
290	2.70E-01	7.24E+01	1.61E+00	1.69E-02	1.28E-03	2.57E+01
300	3.03E-01	7.42E+01	1.46E+00	1.41E-02	1.46E-03	2.41E+01
310	3.38E-01	7.59E+01	1.32E+00	1.23E-02	1.66E-03	2.21E+01
320	3.78E-01	7.75E+01	1.20E+00	1.05E-02	1.90E-03	2.09E+01
330	4.21E-01	7.90E+01	1.08E+00	8.94E-03	2.16E-03	1.95E+01
340	4.68E-01	8.04E+01	9.80E-01	7.62E-03	2.46E-03	1.82E+01
350	5.20E-01	8.17E+01	8.85E-01	6.50E-03	2.79E-03	1.69E+01
360	5.76E-01	8.29E+01	7.99E-01	5.53E-03	3.16E-03	1.57E+01
370	6.37E-01	8.41E+01	7.21E-01	4.71E-03	3.58E-03	1.46E+01
380	7.04E-01	8.51E+01	6.50E-01	4.00E-03	4.04E-03	1.35E+01
390	7.77E-01	8.61E+01	5.85E-01	3.40E-03	4.56E-03	1.25E+01
400	8.55E-01	8.70E+01	5.27E-01	2.90E-03	5.12E-03	1.16E+01
410	9.41E-01	8.78E+01	4.74E-01	2.46E-03	5.76E-03	1.08E+01
420	1.04E+00	8.86E+01	4.26E-01	2.09E-03	6.48E-03	9.97E+00
430	1.14E+00	8.93E+01	3.83E-01	1.77E-03	7.27E-03	9.22E+00
440	1.25E+00	8.99E+01	3.44E-01	1.50E-03	8.15E-03	8.52E+00
450	1.37E+00	9.04E+01	3.09E-01	1.27E-03	9.13E-03	7.87E+00
460	1.50E+00	9.09E+01	2.77E-01	1.08E-03	1.02E-02	7.27E+00
470	1.64E+00	9.14E+01	2.49E-01	9.16E-04	1.14E-02	6.71E+00
480	1.79E+00	9.18E+01	2.23E-01	7.77E-04	1.27E-02	6.19E+00
490	1.96E+00	9.21E+01	2.00E-01	6.59E-04	1.42E-02	5.71E+00
500	2.14E+00	9.24E+01	1.80E-01	5.58E-04	1.58E-02	5.27E+00
510	2.33E+00	9.26E+01	1.61E-01	4.73E-04	1.76E-02	4.86E+00
520	2.54E+00	9.28E+01	1.44E-01	4.01E-04	1.96E-02	4.48E+00
530	2.76E+00	9.30E+01	1.29E-01	3.40E-04	2.18E-02	4.12E+00
540	3.00E+00	9.31E+01	1.16E-01	2.89E-04	2.42E-02	3.80E+00
550	3.26E+00	9.31E+01	1.04E-01	2.45E-04	2.69E-02	3.50E+00
560	3.55E+00	9.31E+01	9.30E-02	2.07E-04	2.98E-02	3.22E+00
570	3.85E+00	9.31E+01	8.33E-02	1.76E-04	3.30E-02	2.97E+00
580	4.17E+00	9.30E+01	7.46E-02	1.49E-04	3.65E-02	2.73E+00
590	4.52E+00	9.29E+01	6.68E-02	1.26E-04	4.04E-02	2.51E+00
600	4.90E+00	9.27E+01	5.98E-02	1.07E-04	4.47E-02	2.31E+00

λ , км	He S ₂ , %	Cl S ₂ , %	O ₂ S ₂ , %	Ar S ₂ , %	H ₂ S ₂ , %	N ₂ S ₂ , %
610	5.30E+00	9.25E+01	5.35E-02	9.08E-05	4.93E-02	2.12E+00
620	5.73E+00	9.22E+01	4.79E-02	7.70E-05	5.44E-02	1.96E+00
630	6.20E+00	9.19E+01	4.29E-02	6.53E-05	6.00E-02	1.80E+00
640	6.69E+00	9.16E+01	3.84E-02	5.51E-05	6.62E-02	1.65E+00
650	7.22E+00	9.12E+01	3.43E-02	4.69E-05	7.28E-02	1.52E+00
660	7.79E+00	9.07E+01	3.07E-02	3.98E-05	8.01E-02	1.39E+00
670	8.39E+00	9.02E+01	2.74E-02	3.37E-05	8.81E-02	1.28E+00
680	9.03E+00	8.97E+01	2.45E-02	2.86E-05	9.67E-02	1.17E+00
690	9.71E+00	8.91E+01	2.19E-02	2.42E-05	1.06E-01	1.08E+00
700	1.04E+01	8.84E+01	1.96E-02	2.05E-05	1.16E-01	9.87E-01
710	1.12E+01	8.77E+01	1.75E-02	1.74E-05	1.27E-01	9.03E-01
720	1.20E+01	8.70E+01	1.56E-02	1.47E-05	1.39E-01	8.29E-01
730	1.29E+01	8.62E+01	1.39E-02	1.25E-05	1.52E-01	7.60E-01
740	1.38E+01	8.53E+01	1.24E-02	1.05E-05	1.66E-01	6.96E-01
750	1.48E+01	8.44E+01	1.11E-02	8.92E-06	1.81E-01	6.36E-01
760	1.58E+01	8.34E+01	9.85E-03	7.54E-06	1.98E-01	5.82E-01
770	1.68E+01	8.24E+01	8.77E-03	6.38E-06	2.15E-01	5.31E-01
780	1.80E+01	8.13E+01	7.80E-03	5.39E-06	2.34E-01	4.86E-01
790	1.91E+01	8.02E+01	6.94E-03	4.55E-06	2.54E-01	4.43E-01
800	2.03E+01	7.90E+01	6.17E-03	3.84E-06	2.76E-01	4.04E-01

D-82; LAT-80; LON-45; LT-12; F-200; FAV-200; A_p-100; UT1-9

80	5.48E-04	4.01E-03	2.09E+01	4.64E-01	1.39E-05	7.81E+01
90	6.00E-04	2.51E-01	2.07E+01	9.64E-01	8.32E-05	7.81E+01
100	9.42E-04	2.74E+00	1.95E+01	8.63E-01	1.28E-04	7.60E+01
110	2.21E-03	7.51E+00	1.72E+01	6.75E-01	2.43E-04	7.46E+01
120	4.00E-03	1.18E+01	1.52E+01	5.43E-01	3.13E-04	7.25E+01
130	4.55E-03	1.48E+01	1.39E+01	4.64E-01	3.12E-04	7.09E+01
140	5.27E-03	1.70E+01	1.29E+01	4.09E-01	2.80E-04	6.97E+01
150	7.07E-03	1.89E+01	1.21E+01	3.64E-01	2.51E-04	6.86E+01
160	9.47E-03	2.07E+01	1.14E+01	3.25E-01	2.36E-04	6.76E+01
170	1.23E-02	2.23E+01	1.08E+01	2.90E-01	2.35E-04	6.66E+01
180	1.56E-02	2.40E+01	1.02E+01	2.58E-01	2.48E-04	6.56E+01
190	1.94E-02	2.56E+01	9.72E+00	2.30E-01	2.73E-04	6.44E+01
200	2.38E-02	2.72E+01	9.23E+00	2.05E-01	3.10E-04	6.33E+01
210	2.87E-02	2.89E+01	8.78E+00	1.83E-01	3.59E-04	6.21E+01
220	3.44E-02	3.06E+01	8.34E+00	1.63E-01	4.21E-04	6.08E+01
230	4.09E-02	3.24E+01	7.91E+00	1.46E-01	4.96E-04	5.95E+01
240	4.82E-02	3.42E+01	7.50E+00	1.30E-01	5.87E-04	5.81E+01
250	5.64E-02	3.60E+01	7.10E+00	1.17E-01	6.93E-04	5.67E+01
260	6.57E-02	3.79E+01	6.72E+00	1.04E-01	8.18E-04	5.52E+01
270	7.61E-02	3.98E+01	6.35E+00	9.37E-02	9.63E-04	5.37E+01
280	8.77E-02	4.18E+01	5.99E+00	8.31E-02	1.13E-03	5.21E+01
290	1.01E-01	4.37E+01	5.64E+00	7.41E-02	1.32E-03	5.05E+01
300	1.15E-01	4.57E+01	5.31E+00	6.60E-02	1.51E-03	4.88E+01

Продолжение табл. 18

z, КМ	He S, %	O.S, %	O ₂ S, %	Ar'S, %	H'S, %	N ₂ S, %
310	1.32E-01	4.72E+01	5.04E+00	5.93E-02	1.80E-03	4.76E+01
320	1.50E-01	4.93E+01	4.72E+00	5.27E-02	2.08E-03	4.58E+01
330	1.69E-01	5.13E+01	4.42E+00	4.67E-02	2.40E-03	4.40E+01
340	1.91E-01	5.34E+01	4.13E+00	4.14E-02	2.76E-03	4.23E+01
350	2.15E-01	5.54E+01	3.86E+00	3.67E-02	3.16E-03	4.05E+01
360	2.41E-01	5.73E+01	3.60E+00	3.25E-02	3.62E-03	3.88E+01
370	2.69E-01	5.93E+01	3.35E+00	2.87E-02	4.13E-03	3.71E+01
380	3.01E-01	6.12E+01	3.12E+00	2.54E-02	4.70E-03	3.54E+01
390	3.35E-01	6.30E+01	2.89E+00	2.24E-02	5.33E-03	3.37E+01
400	3.72E-01	6.48E+01	2.69E+00	1.97E-02	6.04E-03	3.21E+01
410	4.13E-01	6.65E+01	2.49E+00	1.74E-02	6.83E-03	3.05E+01
420	4.57E-01	6.82E+01	2.31E+00	1.53E-02	7.71E-03	2.90E+01
430	5.05E-01	6.98E+01	2.13E+00	1.34E-02	8.68E-03	2.75E+01
440	5.57E-01	7.14E+01	1.97E+00	1.18E-02	9.76E-03	2.61E+01
450	6.14E-01	7.29E+01	1.82E+00	1.04E-02	1.10E-02	2.47E+01
460	6.75E-01	7.43E+01	1.68E+00	9.03E-03	1.23E-02	2.33E+01
470	7.41E-01	7.56E+01	1.54E+00	7.96E-03	1.37E-02	2.20E+01
480	8.12E-01	7.69E+01	1.42E+00	6.97E-03	1.53E-02	2.08E+01
490	8.89E-01	7.82E+01	1.31E+00	6.10E-03	1.71E-02	1.96E+01
500	9.72E-01	7.93E+01	1.20E+00	5.34E-03	1.91E-02	1.85E+01
510	1.06E+00	8.04E+01	1.10E+00	4.66E-03	2.12E-02	1.74E+01
520	1.16E+00	8.14E+01	1.01E+00	4.07E-03	2.35E-02	1.64E+01
530	1.26E+00	8.24E+01	9.29E-01	3.56E-03	2.61E-02	1.54E+01
540	1.37E+00	8.33E+01	8.52E-01	3.11E-03	2.89E-02	1.45E+01
550	1.49E+00	8.41E+01	7.80E-01	2.71E-03	3.20E-02	1.36E+01
560	1.62E+00	8.49E+01	7.15E-01	2.36E-03	3.54E-02	1.27E+01
570	1.75E+00	8.56E+01	6.54E-01	2.06E-03	3.91E-02	1.19E+01
580	1.90E+00	8.63E+01	5.98E-01	1.80E-03	4.31E-02	1.12E+01
590	2.06E+00	8.69E+01	5.47E-01	1.57E-03	4.75E-02	1.05E+01
600	2.23E+00	8.74E+01	5.00E-01	1.36E-03	5.24E-02	9.81E+00
610	2.41E+00	8.79E+01	4.57E-01	1.19E-03	5.76E-02	9.18E+00
620	2.60E+00	8.83E+01	4.17E-01	1.03E-03	6.33E-02	8.59E+00
630	2.80E+00	8.87E+01	3.81E-01	9.01E-04	6.95E-02	8.03E+00
640	3.02E+00	8.90E+01	3.48E-01	7.84E-04	7.63E-02	7.51E+00
650	3.25E+00	8.93E+01	3.17E-01	6.82E-04	8.36E-02	7.02E+00
660	3.50E+00	8.96E+01	2.90E-01	5.94E-04	9.16E-02	6.55E+00
670	3.76E+00	8.98E+01	2.64E-01	5.17E-04	1.00E-01	6.12E+00
680	4.04E+00	8.99E+01	2.41E-01	4.49E-04	1.10E-01	5.71E+00
690	4.34E+00	9.00E+01	2.20E-01	3.91E-04	1.20E-01	5.33E+00
700	4.66E+00	9.00E+01	2.00E-01	3.40E-04	1.31E-01	4.97E+00
710	5.00E+00	9.00E+01	1.82E-01	2.96E-04	1.43E-01	4.64E+00
720	5.36E+00	9.00E+01	1.66E-01	2.57E-04	1.56E-01	4.32E+00
730	5.74E+00	8.99E+01	1.51E-01	2.24E-04	1.70E-01	4.03E+00
740	6.14E+00	8.98E+01	1.38E-01	1.94E-04	1.85E-01	3.75E+00
750	6.56E+00	8.96E+01	1.25E-01	1.69E-04	2.01E-01	3.50E+00
760	7.01E+00	8.94E+01	1.14E-01	1.47E-04	2.19E-01	3.26E+00
770	7.49E+00	8.91E+01	1.04E-01	1.28E-04	2.38E-01	3.03E+00
780	7.99E+00	8.88E+01	9.44E-02	1.11E-04	2.58E-01	2.82E+00
790	8.53E+00	8.85E+01	8.59E-02	9.65E-05	2.80E-01	2.63E+00
800	9.09E+00	8.81E+01	7.81E-02	8.38E-05	3.03E-01	2.44E+00

Таблица 19

Широтные вариации состава при низкой солнечной активности для летнего солнцестояния в северном и зимнего в южном полушариях

$\lambda, ^\circ$	He'S, %	O'S, %	O'S, %	Ar'S, %	Ne'S, %	N'S, %
D-172; LAT-0; LON-45; LT-12; F-70; FAV-70; A _p -100; UT1-9						
80	5.53E-04	1.14E-03	2.08E+01	8.96E-01	1.80E-05	7.83E+01
90	6.14E-04	2.88E-01	2.03E+01	8.55E-01	1.20E-04	7.86E+01
100	9.58E-04	1.94E+00	1.82E+01	7.16E-01	1.98E-04	7.75E+01
110	2.54E-03	9.72E+03	1.36E+01	4.76E-01	5.08E-04	1.62E+01
120	7.32E-03	1.75E+01	9.27E+00	2.93E-01	1.13E-03	7.29E+01
130	1.39E-02	2.35E+01	6.97E+00	1.98E-01	1.54E-03	6.93E+01
140	2.28E-02	2.86E+01	5.77E+00	1.40E-01	1.80E-03	6.55E+01
150	3.45E-02	3.51E+01	4.98E+00	1.02E-01	2.63E-03	6.17E+01
160	4.97E-02	3.75E+01	4.36E+00	7.69E-02	2.32E-03	5.80E+01
170	6.91E-02	4.18E+01	3.83E+00	5.87E-02	2.74E-03	5.42E+01
180	9.34E-02	4.60E+01	3.26E+00	4.52E-02	3.34E-03	5.05E+01
190	1.24E-01	5.02E+01	2.93E+00	3.47E-02	4.16E-03	4.68E+01
200	1.61E-01	5.12E+01	2.55E+00	2.70E-02	5.26E-03	4.30E+01
210	2.07E-01	5.82E+01	2.21E+00	2.09E-02	6.72E-03	3.94E+01
220	2.64E-01	6.20E+01	1.90E+00	1.61E-02	8.62E-03	3.58E+01
230	3.31E-01	6.56E+01	1.63E+00	1.21E-02	1.11E-02	3.24E+01
240	4.13E-01	6.90E+01	1.39E+00	9.48E-03	1.41E-02	2.92E+01
250	5.10E-01	7.22E+01	1.18E+00	7.22E-03	1.80E-02	2.61E+01
260	6.26E-01	7.51E+01	9.96E-01	5.49E-03	2.29E-02	2.33E+01
270	7.63E-01	7.77E+01	8.38E-01	4.15E-03	2.89E-02	2.06E+01
280	9.24E-01	8.01E+01	7.02E-01	3.13E-03	3.63E-02	1.82E+01
290	1.11E+00	8.23E+01	5.86E-01	2.35E-03	4.51E-02	1.60E+01
300	1.33E+00	8.41E+01	4.87E-01	1.76E-03	5.65E-02	1.40E+01
310	1.60E+00	8.56E+01	4.07E-01	1.33E-03	7.05E-02	1.23E+01
320	1.90E+00	8.69E+01	3.36E-01	9.87E-04	8.70E-02	1.07E+01
330	2.25E+00	8.81E+01	2.77E-01	7.33E-04	1.07E-01	9.31E+00
340	2.65E+00	8.89E+01	2.27E-01	5.44E-04	1.31E-01	8.06E+00
350	3.11E+00	8.96E+01	1.87E-01	4.03E-04	1.60E-01	6.96E+00
360	3.65E+00	9.00E+01	1.53E-01	2.98E-04	1.94E-01	6.00E+00
370	4.26E+00	9.02E+01	1.25E-01	2.20E-04	2.36E-01	5.16E+00
380	4.96E+00	9.02E+01	1.02E-01	1.62E-04	2.85E-01	4.43E+00
390	5.76E+00	9.00E+01	8.31E-02	1.19E-04	3.44E-01	3.80E+00
400	6.67E+00	8.96E+01	6.76E-02	8.78E-05	4.11E-01	3.25E+00
410	7.71E+00	8.90E+01	5.43E-02	6.45E-05	4.97E-01	2.77E+00
420	8.87E+00	8.81E+01	4.45E-02	4.73E-05	5.94E-01	2.36E+00
430	1.02E+01	8.71E+01	3.60E-02	3.46E-05	7.01E-01	2.01E+00
440	1.17E+01	8.58E+01	2.90E-02	2.55E-05	8.11E-01	1.71E+00
450	1.33E+01	8.42E+01	2.34E-02	1.84E-05	9.95E-01	1.44E+00
460	1.51E+01	8.25E+01	1.88E-02	1.34E-05	1.17E+00	1.29E+00
470	1.71E+01	8.05E+01	1.50E-02	9.71E-06	1.38E+00	1.02E+00
480	1.93E+01	7.83E+01	1.20E-02	7.02E-06	1.61E+00	8.59E-01
490	2.16E+01	7.58E+01	9.54E-03	5.06E-06	1.88E+00	7.18E-01
500	2.41E+01	7.31E+01	7.56E-03	3.64E-06	2.18E+00	5.97E-01

Продолжение табл. 19

λ , KM	He S, %	O S, %	O S, %	Al S, %	H S, %	N S, %
510	2.68E+01	7.01E+01	5.97E-03	2.40E-06	2.51E+00	4.95E-01
520	2.97E+01	6.70E+01	4.69E-03	1.86E-06	2.88E+00	4.09E-01
530	3.27E+01	6.37E+01	3.67E-03	1.32E-06	3.28E+00	3.36E-01
540	3.57E+01	6.03E+01	2.86E-03	9.34E-07	3.72E+00	2.75E-01
550	3.89E+01	5.67E+01	2.22E-03	6.57E-07	4.20E+00	2.24E-01
560	4.20E+01	5.31E+01	1.71E-03	4.61E-07	4.71E+00	1.81E-01
570	4.52E+01	4.94E+01	1.32E-03	3.22E-07	5.25E+00	1.46E-01
580	4.83E+01	4.58E+01	1.01E-03	2.23E-07	5.82E+00	1.17E-01
590	5.13E+01	4.22E+01	7.66E-04	1.55E-07	6.41E+00	9.35E-02
600	5.43E+01	3.86E+01	5.81E-04	1.06E-07	7.02E+00	7.43E-02
610	5.71E+01	3.52E+01	4.38E-04	7.30E-08	7.65E+00	5.88E-02
620	5.97E+01	3.20E+01	3.29E-04	4.99E-08	8.29E+00	4.63E-02
630	6.21E+01	2.89E+01	2.46E-04	3.39E-08	8.94E+00	3.63E-02
640	6.44E+01	2.60E+01	1.83E-04	2.30E-08	9.60E+00	2.83E-02
650	6.64E+01	2.33E+01	1.36E-04	1.56E-08	1.03E+01	2.21E-02
660	6.83E+01	2.08E+01	1.01E-04	1.05E-08	1.09E+01	1.71E-02
670	6.99E+01	1.85E+01	7.46E-05	7.07E-09	1.16E+01	1.33E-02
680	7.13E+01	1.64E+01	5.49E-05	4.74E-09	1.23E+01	1.02E-02
690	7.26E+01	1.45E+01	4.03E-05	3.18E-09	1.29E+01	7.88E-03
700	7.38E+01	1.28E+01	2.96E-05	2.13E-09	1.36E+01	6.06E-03
710	7.45E+01	1.13E+01	2.17E-05	1.42E-09	1.42E+01	4.65E-03
720	7.52E+01	9.96E+00	1.59E-05	9.46E-10	1.48E+01	3.56E-03
730	7.58E+01	8.74E+00	1.16E-05	6.32E-10	1.55E+01	2.72E-03
740	7.62E+01	7.67E+00	8.47E-06	4.21E-10	1.61E+01	2.08E-03
750	7.66E+01	6.71E+00	6.18E-06	2.81E-10	1.67E+01	1.59E-03
760	7.68E+01	5.87E+00	4.51E-06	1.87E-10	1.73E+01	1.21E-03
770	7.69E+01	5.13E+00	3.29E-06	1.24E-10	1.80E+01	9.26E-04
780	7.69E+01	4.48E+00	2.40E-06	8.26E-11	1.86E+01	7.06E-04
790	7.69E+01	3.91E+00	1.76E-06	5.51E-11	1.92E+01	5.38E-04
800	7.67E+01	3.41E+00	1.27E-06	3.67E-11	1.99E+01	4.10E-04

D--172; LAT--40; LON--45; LT--12, F--70; FΔV--70; A_p--100; UT1--9

80	5.40E-04	1.05E-03	2.08E+01	8.96E-01	1.61E-05	7.84E+01
90	6.04E-04	2.62E-01	2.03E+01	8.53E-01	1.08E-04	7.66E+01
100	9.56E-04	2.90E+00	1.83E+01	7.17E-01	1.82E-04	7.81E+01
110	2.29E-03	8.35E+00	1.41E+01	4.99E-01	4.06E-04	7.70E+01
120	4.67E-03	1.42E+01	1.02E+01	3.34E-01	7.14E-04	7.53E+01
130	5.12E-03	1.87E+01	7.99E+00	2.36E-01	9.01E-04	7.30E+01
140	5.81E-03	2.24E+01	6.84E+00	1.74E-01	9.88E-04	7.06E+01
150	8.12E-03	2.57E+01	6.09E+00	1.33E-01	1.06E-03	6.81E+01
160	1.15E-02	1.86E+01	5.50E+00	1.04E-01	1.16E-03	6.56E+01
170	1.58E-02	3.21E+01	4.99E+00	8.32E-02	1.32E-03	6.28E+01
180	2.12E-02	3.53E+01	4.53E+00	6.70E-02	1.56E-03	6.01E+01
190	2.79E-02	3.86E+01	4.09E+00	5.42E-02	1.90E-03	5.73E+01
200	3.63E-02	4.19E+01	3.69E+00	4.40E-02	2.37E-03	5.43E+01

z , м	He/S, %	O/S, %	H/S, %	N/S, %	H/S, %	N/S, %
210	4.65E-02	4.53E+01	3.31E+00	3.57E-02	3.00E-03	5.43E+01
220	5.90E-02	4.87E+01	2.96E+00	3.89E-02	3.81E-03	4.83E+01
230	7.12E-02	5.21E+01	2.64E+00	2.34E-02	4.86E-03	4.52E+01
240	9.26E-02	5.55E+01	2.34E+00	1.88E-02	6.18E-03	4.20E+01
250	1.15E-01	5.89E+01	2.07E+00	1.51E-02	7.85E-03	3.89E+01
260	1.41E-01	6.21E+01	1.82E+00	1.21E-02	9.93E-03	3.59E+01
270	1.72E-01	6.53E+01	1.59E+00	9.59E-03	1.25E-02	3.29E+01
280	2.08E-01	6.83E+01	1.36E+00	7.60E-03	1.56E-02	3.01E+01
290	2.51E-01	7.12E+01	1.20E+00	6.01E-03	1.95E-02	2.73E+01
300	3.02E-01	7.39E+01	1.04E+00	4.73E-03	2.42E-02	2.47E+01
310	3.63E-01	7.61E+01	9.05E-01	3.75E-03	3.02E-02	2.26E+01
320	4.30E-01	7.85E+01	7.75E-01	2.93E-03	3.70E-02	2.03E+01
330	5.08E-01	8.07E+01	6.62E-01	2.28E-03	4.52E-02	1.81E+01
340	5.97E-01	8.26E+01	5.64E-01	1.77E-03	5.54E-02	1.62E+01
350	7.00E-01	8.44E+01	4.79E-01	1.37E-03	6.68E-02	1.44E+01
360	8.18E-01	8.59E+01	4.07E-01	1.06E-03	8.08E-02	1.28E+01
370	9.53E-01	8.73E+01	3.44E-01	8.22E-04	9.74E-02	1.13E+01
380	1.11E+00	8.85E+01	2.91E-01	6.34E-04	1.17E-01	1.00E+01
390	1.28E+00	8.95E+01	2.45E-01	4.89E-04	1.40E-01	8.84E+00
400	1.48E+00	9.04E+01	2.07E-01	3.76E-04	1.68E-01	7.79E+00
410	1.71E+00	9.11E+01	1.74E-01	2.89E-04	2.00E-01	6.86E+00
420	1.97E+00	9.16E+01	1.46E-01	2.22E-04	2.38E-01	6.03E+00
430	2.26E+00	9.20E+01	1.23E-01	1.71E-04	2.83E-01	5.30E+00
440	2.60E+00	9.23E+01	1.03E-01	1.31E-04	3.36E-01	4.65E+00
450	2.97E+00	9.25E+01	8.64E-02	1.00E-04	3.98E-01	4.07E+00
460	3.40E+00	9.25E+01	7.24E-02	7.70E-05	4.70E-01	3.57E+00
470	3.87E+00	9.24E+01	6.06E-02	5.90E-05	5.54E-01	3.12E+00
480	4.41E+00	9.22E+01	5.08E-02	4.51E-05	6.52E-01	2.73E+00
490	5.01E+00	9.18E+01	4.23E-02	3.45E-05	7.66E-01	2.38E+00
500	5.69E+00	9.13E+01	3.53E-02	2.64E-05	8.98E-01	2.07E+00
510	6.44E+00	9.07E+01	2.94E-02	2.02E-05	1.05E+00	1.81E+00
520	7.28E+00	8.99E+01	2.45E-02	1.54E-05	1.23E+00	1.57E+00
530	8.21E+00	8.90E+01	2.04E-02	1.17E-05	1.43E+00	1.37E+00
540	9.24E+00	8.79E+01	1.69E-02	8.93E-06	1.66E+00	1.18E+00
550	1.04E+01	8.67E+01	1.40E-02	6.80E-06	1.93E+00	1.03E+00
560	1.16E+01	8.53E+01	1.16E-02	5.16E-06	2.23E+00	8.87E-01
570	1.30E+01	8.37E+01	9.61E-03	3.91E-06	2.57E+00	7.65E-01
580	1.44E+01	8.19E+01	7.92E-03	2.96E-06	2.96E+00	6.59E-01
590	1.60E+01	8.00E+01	6.52E-03	2.24E-06	3.39E+00	5.66E-01
600	1.77E+01	7.79E+01	5.36E-03	1.69E-06	3.87E+00	4.85E-01
610	1.95E+01	7.56E+01	4.39E-03	1.27E-06	4.41E+00	4.14E-01
620	2.15E+01	7.32E+01	3.58E-03	9.53E-07	5.00E+00	3.53E-01
630	2.35E+01	7.05E+01	2.92E-03	7.13E-07	5.65E+00	3.00E-01
640	2.56E+01	6.78E+01	2.37E-03	5.32E-07	6.35E+00	2.54E-01
650	2.78E+01	6.49E+01	1.91E-03	3.96E-07	7.12E+00	2.14E-01
660	3.01E+01	6.18E+01	1.51E-03	2.93E-07	7.94E+00	1.80E-01
670	3.23E+01	5.87E+01	1.24E-03	2.17E-07	8.81E+00	1.51E-01

Продолжение табл. 19

z , км	He/S, %	O/S, %	O/S, %	Ar/S, %	He/S, %	N/S, %
680	3,47E+01	5,55E+01	9,92E-04	1,60E-07	9,74E+00	1,26E-01
690	3,70E+01	5,22E+01	7,91E-04	1,17E-07	1,07E+01	1,05E-01
700	3,92E+01	4,90E+01	6,28E-04	8,56E-08	1,17E+01	8,65E-02
710	4,14E+01	4,57E+01	4,97E-04	6,24E-08	1,28E+01	7,13E-02
720	4,36E+01	4,25E+01	3,92E-04	4,53E-08	1,39E+01	5,86E-02
730	4,56E+01	3,93E+01	3,08E-04	3,28E-08	1,50E+01	4,80E-02
740	4,76E+01	3,63E+01	2,41E-04	2,36E-08	1,61E+01	3,91E-02
750	4,94E+01	3,33E+01	1,88E-04	1,70E-08	1,72E+01	3,18E-02
760	5,11E+01	3,05E+01	1,46E-04	1,22E-08	1,84E+01	2,58E-02
770	5,26E+01	2,78E+01	1,13E-04	8,71E-09	1,95E+01	2,08E-02
780	5,40E+01	2,53E+01	8,77E-05	6,21E-09	2,07E+01	1,67E-02
790	5,53E+01	2,29E+01	6,76E-05	4,42E-09	2,18E+01	1,34E-02
800	5,64E+01	2,07E+01	5,20E-05	3,13E-09	2,29E+01	1,08E-02

D-172; LAT-80; LON-45; LT-12; F-70; FAV-70; A_p-100; UTI-9

80	5,35E-04	8,69E-04	2,09E+01	9,69E-01	1,64E-05	7,82E+01
90	5,90E-04	2,12E-01	2,06E+01	9,68E-01	1,10E-04	7,83E+01
100	9,48E-04	2,34E+00	1,91E+01	9,58E-01	2,01E-04	7,77E+01
110	2,00E-03	6,19E+00	1,65E+01	7,10E-01	4,01E-04	7,67E+01
120	2,96E-03	9,53E+00	1,40E+01	5,86E-01	6,87E-04	7,59E+01
130	3,04E-03	1,20E+01	1,23E+01	5,02E-01	7,14E-04	7,51E+01
140	1,73E-03	1,40E+01	1,13E+01	4,36E-01	7,75E-04	7,43E+01
150	2,27E-03	1,57E+01	1,64E+01	3,79E-01	8,35E-04	7,34E+01
160	3,18E-03	1,75E+01	9,75E+00	3,27E-01	9,29E-04	7,24E+01
170	4,40E-03	1,93E+01	9,10E+00	2,80E-01	1,08E-03	7,13E+01
180	5,99E-03	2,12E+01	8,48E+00	2,38E-01	1,31E-03	7,01E+01
190	8,04E-03	2,33E+01	7,89E+00	2,02E-01	1,63E-03	6,86E+01
200	1,07E-02	2,55E+01	7,33E+00	1,70E-01	2,09E-03	6,70E+01
210	1,40E-02	2,79E+01	6,79E+00	1,43E-01	2,72E-03	6,52E+01
220	1,83E-02	3,05E+01	6,26E+00	1,20E-01	3,56E-03	6,31E+01
230	2,38E-02	3,33E+01	5,75E+00	9,97E-02	4,68E-03	6,09E+01
240	3,06E-02	3,62E+01	5,25E+00	8,28E-02	6,16E-03	5,84E+01
250	3,91E-02	3,93E+01	4,78E+00	6,85E-02	8,09E-03	5,58E+01
260	4,96E-02	4,25E+01	4,33E+00	5,64E-02	1,06E-02	5,30E+01
270	6,26E-02	4,58E+01	3,90E+00	4,61E-02	1,38E-02	5,01E+01
280	7,84E-02	4,92E+01	3,50E+00	3,76E-02	1,78E-02	4,72E+01
290	9,76E-02	5,26E+01	3,12E+00	3,05E-02	2,30E-02	4,41E+01
300	1,21E-01	5,60E+01	2,77E+00	2,46E-02	2,94E-02	4,10E+01
310	1,51E-01	5,86E+01	2,45E+00	2,01E-02	3,81E-02	3,87E+01
320	1,84E-01	6,20E+01	2,18E+00	1,60E-02	4,81E-02	3,55E+01
330	2,23E-01	6,53E+01	1,90E+00	1,27E-02	6,03E-02	3,25E+01
340	2,69E-01	6,84E+01	1,65E+00	1,01E-02	7,53E-02	2,96E+01
350	3,23E-01	7,13E+01	1,43E+00	7,94E-03	9,35E-02	2,68E+01
360	3,85E-01	7,41E+01	1,23E+00	6,24E-03	1,16E-01	2,42E+01
370	4,58E-01	7,66E+01	1,06E+00	4,88E-03	1,42E-01	2,18E+01
380	5,41E-01	7,89E+01	9,06E-01	3,81E-03	1,74E-01	1,95E+01
390	6,38E-01	8,09E+01	7,73E-01	2,96E-03	2,13E-01	1,74E+01
400	7,49E-01	8,28E+01	6,58E-01	2,30E-03	2,58E-01	1,55E+01

z, км	He/S, %	O/S, %	O/S, %	Ar/S, %	H/S, %	N/S, %
410	8.77E-01	8.44E+01	5.58E-01	1.78E-03	3.13E-01	1.38E+01
420	1.02E+00	8.59E+01	4.73E-01	1.38E-03	3.78E-01	1.20E+01
430	1.09E+00	8.71E+01	4.00E-01	1.06E-03	4.55E-01	1.08E+01
440	1.38E+00	8.82E+01	3.37E-01	8.19E-04	5.46E-01	9.57E+00
450	1.60E+00	8.90E+01	2.84E-01	6.30E-04	6.53E-01	8.43E+00
460	1.84E+00	8.97E+01	2.39E-01	4.84E-04	7.79E-01	7.42E+00
470	2.12E+00	9.02E+01	2.01E-01	3.72E-04	9.28E-01	6.52E+00
480	2.44E+00	9.06E+01	1.68E-01	2.65E-04	1.10E+00	5.72E+00
490	2.79E+00	9.07E+01	1.41E-01	2.18E-04	1.31E+00	5.01E+00
500	3.10E+00	9.08E+01	1.18E-01	1.67E-04	1.55E+00	4.38E+00
510	3.64E+00	9.06E+01	9.86E-02	1.28E-04	1.82E+00	3.80E+00
520	4.15E+00	9.03E+01	8.23E-02	9.75E-05	2.15E+00	3.34E+00
530	4.71E+00	8.98E+01	6.86E-02	7.43E-05	2.52E+00	2.91E+00
540	5.33E+00	8.91E+01	5.70E-02	5.66E-05	2.95E+00	2.53E+00
550	6.03E+00	8.83E+01	4.74E-02	4.31E-05	3.45E+00	2.20E+00
560	6.80E+00	8.72E+01	3.93E-02	3.27E-05	4.01E+00	1.90E+00
570	7.64E+00	8.60E+01	3.25E-02	2.48E-05	4.66E+00	1.64E+00
580	8.57E+00	8.46E+01	2.69E-02	1.88E-05	5.40E+00	1.42E+00
590	9.57E+00	8.30E+01	2.21E-02	1.42E-05	6.24E+00	1.22E+00
600	1.07E+01	8.11E+01	1.82E-02	1.07E-05	7.17E+00	1.05E+00
610	1.18E+01	7.90E+01	1.40E-02	8.04E-06	8.22E+00	8.97E-01
620	1.31E+01	7.68E+01	1.22E-02	6.93E-06	9.39E+00	7.66E-01
630	1.44E+01	7.43E+01	9.93E-03	4.50E-06	1.07E+01	6.53E-01
640	1.58E+01	7.16E+01	8.06E-03	3.36E-06	1.21E+01	5.52E-01
650	1.72E+01	6.87E+01	6.52E-03	2.41E-06	1.36E+01	4.66E-01
660	1.87E+01	6.57E+01	5.25E-03	1.84E-06	1.53E+01	3.92E-01
670	2.02E+01	6.25E+01	4.22E-03	1.36E-06	1.70E+01	3.28E-01
680	2.17E+01	5.91E+01	3.37E-03	9.98E-07	1.89E+01	2.73E-01
690	2.32E+01	5.57E+01	2.68E-03	7.30E-07	2.09E+01	2.27E-01
700	2.47E+01	5.22E+01	2.12E-03	5.31E-07	2.29E+01	1.87E-01
710	2.61E+01	4.87E+01	1.67E-03	3.85E-07	2.50E+01	1.54E-01
720	2.75E+01	4.52E+01	1.31E-03	2.78E-07	2.72E+01	1.26E-01
730	2.88E+01	4.18E+01	1.03E-03	2.00E-07	2.93E+01	1.03E-01
740	3.00E+01	3.84E+01	7.99E-04	1.43E-07	3.15E+01	8.34E-02
750	3.11E+01	3.51E+01	6.19E-04	1.02E-07	3.37E+01	6.74E-02
760	3.21E+01	3.20E+01	4.78E-04	7.24E-08	3.59E+01	5.42E-02
770	3.29E+01	2.90E+01	3.67E-04	5.13E-08	3.80E+01	4.34E-02
780	3.37E+01	2.62E+01	2.81E-04	3.62E-08	4.01E+01	3.47E-02
790	3.43E+01	2.36E+01	2.15E-04	2.54E-08	4.23E+01	2.76E-02
800	3.48E+01	2.12E+01	1.64E-04	1.79E-08	4.40E+01	2.19E-02

D-172; LAT -40; LON-45; LT-12; F-70; ϕ AV-70; A_p -100; UT1-9

80	5.43E-04	1.23E-03	2.09E+01	8.93E-01	1.78E-05	7.82E+01
90	6.07E-04	3.13E-01	2.05E+01	8.48E-01	1.23E-04	7.83E+01
100	9.49E-03	3.49E+00	1.87E+01	7.06E-01	2.13E-04	7.71E+01

Продолжение табл. 19

z, км	He/S, %	O/S, %	O/S, %	Ar/S, %	H/S, %	N/S, %
110	2.38E-03	1.01E+01	1.51E+01	4.76E-01	5.05E-04	7.43E+01
120	6.29E-03	1.71E+01	1.17E+01	3.12E-01	9.13E-04	7.09E+01
130	1.73E-02	2.29E+01	9.51E+00	2.13E-01	1.21E-03	6.74E+01
140	3.67E-02	2.80E+01	8.09E+00	1.50E-01	1.43E-03	6.37E+01
150	5.88E-02	3.29E+01	7.03E+00	1.09E-01	1.66E-03	5.99E+01
160	8.57E-02	3.76E+01	6.14E+00	8.10E-02	1.94E-03	5.61E+01
170	1.20E-01	4.23E+01	5.35E+00	6.11E-02	2.32E-03	5.22E+01
180	1.63E-01	4.69E+01	4.66E+00	4.64E-02	2.86E-03	4.82E+01
190	2.17E-01	5.14E+01	4.03E+00	3.55E-02	3.60E-03	4.43E+01
200	2.83E-01	5.57E+01	3.47E+00	2.71E-02	4.59E-03	4.05E+01
210	3.63E-01	5.99E+01	2.98E+00	2.07E-02	5.88E-03	3.67E+01
220	4.61E-01	6.38E+01	2.54E+00	1.58E-02	7.55E-03	3.32E+01
230	5.79E-01	6.75E+01	2.16E+00	1.20E-02	9.68E-03	2.97E+01
240	7.20E-01	7.09E+01	1.82E+00	9.06E-03	1.24E-02	2.65E+01
250	8.87E-01	7.40E+01	1.53E+00	6.83E-03	1.57E-02	2.36E+01
260	1.08E+00	7.68E+01	1.28E+00	5.13E-03	1.99E-02	2.08E+01
270	1.32E+00	7.93E+01	1.07E+00	3.85E-03	2.51E-02	1.83E+01
280	1.59E+00	8.14E+01	8.89E-01	2.87E-03	3.15E-02	1.60E+01
290	1.91E+00	8.33E+01	7.36E-01	2.14E-03	3.93E-02	1.40E+01
300	2.28E+00	8.49E+01	6.07E-01	1.59E-03	4.88E-02	1.22E+01
310	2.72E+00	8.61E+01	5.01E-01	1.18E-03	6.04E-02	1.06E+01
320	3.22E+00	8.71E+01	4.11E-01	8.72E-04	7.43E-02	9.16E+00
330	3.80E+00	8.79E+01	3.36E-01	6.43E-04	9.11E-02	7.90E+00
340	4.46E+00	8.84E+01	2.75E-01	4.74E-04	1.11E-01	6.80E+00
350	5.23E+00	8.86E+01	2.24E-01	3.48E-04	1.35E-01	5.84E+00
360	6.10E+00	8.86E+01	1.82E-01	2.55E-04	1.64E-01	5.00E+00
370	7.10E+00	8.83E+01	1.48E-01	1.87E-04	1.99E-01	4.27E+00
380	8.23E+00	8.78E+01	1.20E-01	1.37E-04	2.39E-01	3.64E+00
390	9.51E+00	8.70E+01	9.68E-02	9.98E-05	2.87E-01	3.10E+00
400	1.09E+01	8.60E+01	7.80E-02	7.26E-05	3.44E-01	2.63E+00
410	1.26E+01	8.47E+01	6.28E-02	5.28E-05	4.10E-01	2.22E+00
420	1.44E+01	8.32E+01	5.03E-02	3.83E-05	4.87E-01	1.88E+00
430	1.64E+01	8.15E+01	4.03E-02	2.77E-05	5.76E-01	1.58E+00
440	1.85E+01	7.94E+01	3.21E-02	1.99E-05	6.78E-01	1.30E+00
450	2.09E+01	7.71E+01	2.55E-02	1.43E-05	7.95E-01	1.11E+00
460	2.36E+01	7.46E+01	2.02E-02	1.03E-05	9.27E-01	9.20E-01
470	2.63E+01	7.18E+01	1.59E-02	7.33E-06	1.08E+00	7.63E-01
480	2.93E+01	6.88E+01	1.25E-02	5.22E-06	1.24E+00	6.30E-01
490	3.24E+01	6.57E+01	9.79E-03	3.69E-06	1.43E+00	5.18E-01
500	3.56E+01	6.23E+01	7.62E-03	2.61E-06	1.63E+00	4.23E-01
510	3.90E+01	5.88E+01	5.91E-03	1.83E-06	1.85E+00	3.45E-01
520	4.24E+01	5.52E+01	4.56E-03	1.28E-06	2.09E+00	2.79E-01
530	4.59E+01	5.15E+01	3.50E-03	8.90E-07	2.34E+00	2.25E-01
540	4.93E+01	4.79E+01	2.67E-03	6.17E-07	2.61E+00	1.81E-01
550	5.27E+01	4.42E+01	2.03E-03	4.25E-07	2.90E+00	1.44E-01
560	5.61E+01	4.06E+01	1.54E-03	2.92E-07	3.20E+00	1.14E-01
570	5.93E+01	3.71E+01	1.16E-03	2.00E-07	3.50E+00	9.05E-02

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	HS, %	N/S, %
560	6.23E+01	3.38E+01	8.68E-04	1.36E-07	3.82E+00	7.12E-02
590	6.52E+01	3.06E+01	6.48E-04	9.22E-08	4.14E+00	5.58E-02
600	6.79E+01	2.76E+01	4.82E-04	6.23E-08	4.47E+00	4.36E-02
610	7.04E+01	2.48E+01	3.58E-04	4.20E-08	4.81E+00	3.39E-02
620	7.27E+01	2.22E+01	2.64E-04	2.82E-08	5.14E+00	2.63E-02
630	7.47E+01	1.98E+01	1.93E-04	1.89E-08	5.48E+00	2.03E-02
640	7.66E+01	1.76E+01	1.43E-04	1.26E-08	5.82E+00	1.57E-02
650	7.83E+01	1.56E+01	1.03E-04	8.43E-09	6.16E+00	1.20E-02
660	7.97E+01	1.38E+01	7.69E-05	5.62E-09	6.50E+00	9.24E-03
670	8.10E+01	1.21E+01	5.62E-05	3.74E-09	6.85E+00	7.08E-03
680	8.21E+01	1.07E+01	4.10E-05	2.48E-09	7.19E+00	5.42E-03
690	8.31E+01	9.40E+00	2.99E-05	1.65E-09	7.53E+00	4.14E-03
700	8.39E+01	8.25E+00	2.18E-05	1.09E-09	7.87E+00	3.16E-03
710	8.45E+01	7.23E+00	1.59E-05	7.25E-10	8.22E+00	2.41E-03
720	8.51E+01	6.34E+00	1.15E-05	4.81E-10	8.57E+00	1.83E-03
730	8.55E+01	5.54E+00	8.39E-06	3.19E-10	8.92E+00	1.40E-03
740	8.59E+01	4.85E+00	6.10E-06	2.11E-10	9.27E+00	1.06E-03
750	8.61E+01	4.23E+00	4.43E-06	1.40E-10	9.62E+00	8.09E-04
760	8.63E+01	3.70E+00	3.22E-06	9.29E-11	9.98E+00	6.16E-04
770	8.64E+01	3.23E+00	2.34E-06	6.16E-11	1.03E+01	4.69E-04
780	8.65E+01	2.82E+00	1.70E-06	4.09E-11	1.07E+01	3.57E-04
790	8.65E+01	2.46E+00	1.21E-06	2.71E-11	1.11E+01	2.71E-04
800	8.64E+01	2.14E+00	9.00E-07	1.80E-11	1.15E+01	2.07E-04

D - 172; LAT - 80; LON - 45; LT - 12; F - 70; FAV - 70; A₁ - 100; UT1 - 9

80	5.42E-04	9.00E-04	2.09E+01	9.57E-01	1.74E-05	7.81E+01
90	5.99E-04	2.20E-01	2.08E+01	9.48E-01	1.18E-04	7.80E+01
100	9.44E-04	2.38E+00	1.99E+01	8.41E-01	2.07E-04	7.69E+01
110	2.13E-03	6.32E+00	1.84E+01	6.59E-01	4.34E-04	7.46E+01
120	4.23E-03	9.70E+00	1.73E+01	5.25E-01	6.44E-04	7.25E+01
130	7.38E-03	1.23E+01	1.62E+01	4.33E-01	7.94E-04	7.10E+01
140	1.18E-02	1.44E+01	1.52E+01	3.66E-01	9.05E-04	7.00E+01
150	1.78E-02	1.64E+01	1.41E+01	3.12E-01	1.02E-03	6.91E+01
160	2.58E-02	1.84E+01	1.32E+01	2.66E-01	1.17E-03	6.81E+01
170	3.59E-02	2.03E+01	1.24E+01	2.27E-01	1.38E-03	6.71E+01
180	4.88E-02	2.23E+01	1.16E+01	1.94E-01	1.67E-03	6.59E+01
190	6.48E-02	2.43E+01	1.08E+01	1.66E-01	2.07E-03	6.46E+01
200	8.46E-02	2.64E+01	1.01E+01	1.43E-01	2.61E-03	6.33E+01
210	1.09E-01	2.86E+01	9.45E+00	1.22E-01	3.31E-03	6.17E+01
220	1.38E-01	3.08E+01	8.82E+00	1.05E-01	4.20E-03	6.01E+01
230	1.73E-01	3.32E+01	8.21E+00	9.00E-02	5.34E-03	5.83E+01
240	2.16E-01	3.56E+01	7.63E+00	7.72E-02	6.75E-03	5.65E+01
250	2.66E-01	3.81E+01	7.07E+00	6.62E-02	8.50E-03	5.45E+01
260	3.25E-01	4.07E+01	6.54E+00	5.66E-02	1.06E-02	5.24E+01
270	3.95E-01	4.33E+01	6.04E+00	4.84E-02	1.32E-02	5.02E+01
280	4.76E-01	4.59E+01	5.55E+00	4.12E-02	1.64E-02	4.80E+01
290	5.70E-01	4.86E+01	5.09E+00	3.51E-02	2.01E-02	4.57E+01
300	6.78E-01	5.12E+01	4.66E+00	2.98E-02	2.46E-02	4.34E+01

Продолжение табл. 19

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
310	8.14E-01	5.31E+01	4.31E+00	2.56E-02	3.04E-02	4.17E+01
320	9.57E-01	5.58E+01	3.92E+00	2.16E-02	3.66E-02	3.93E+01
330	1.12E+00	5.84E+01	3.54E+00	1.82E-02	4.40E-02	3.69E+01
340	1.30E+00	6.09E+01	3.20E+00	1.53E-02	5.26E-02	3.45E+01
350	1.51E+00	6.33E+01	2.88E+00	1.28E-02	6.26E-02	3.22E+01
360	1.74E+00	6.56E+01	2.59E+00	1.07E-02	7.42E-02	3.00E+01
370	2.00E+00	6.77E+01	2.32E+00	8.96E-03	8.75E-02	2.79E+01
380	2.29E+00	6.97E+01	2.08E+00	7.47E-03	1.03E-01	2.58E+01
390	2.61E+00	7.16E+01	1.85E+00	6.21E-03	1.21E-01	2.38E+01
400	2.97E+00	7.33E+01	1.65E+00	5.16E-03	1.41E-01	2.20E+01
410	3.37E+00	7.48E+01	1.47E+00	4.28E-03	1.64E-01	2.02E+01
420	3.81E+00	7.61E+01	1.30E+00	3.54E-03	1.90E-01	1.86E+01
430	4.29E+00	7.73E+01	1.15E+00	2.92E-03	2.19E-01	1.70E+01
440	4.82E+00	7.84E+01	1.02E+00	2.41E-03	2.53E-01	1.55E+01
450	5.40E+00	7.92E+01	8.56E-01	1.99E-03	2.91E-01	1.42E+01
460	6.03E+00	7.99E+01	7.89E-01	1.63E-03	3.33E-01	1.29E+01
470	6.72E+00	8.05E+01	6.94E-01	1.34E-03	3.81E-01	1.17E+01
480	7.48E+00	8.08E+01	6.09E-01	1.10E-03	4.35E-01	1.07E+01
490	8.29E+00	8.10E+01	5.25E-01	9.01E-04	4.91E-01	9.66E+00
500	9.18E+00	8.11E+01	4.66E-01	7.37E-04	5.61E-01	8.74E+00
510	1.01E+01	8.09E+01	4.07E-01	6.02E-04	6.35E-01	7.89E+00
520	1.12E+01	8.06E+01	3.55E-01	4.91E-04	7.18E-01	7.12E+00
530	1.23E+01	8.02E+01	3.09E-01	4.00E-04	8.08E-01	6.41E+00
540	1.34E+01	7.96E+01	2.69E-01	3.26E-04	9.09E-01	5.76E+00
550	1.47E+01	7.89E+01	2.33E-01	2.65E-04	1.02E+00	5.16E+00
560	1.61E+01	7.80E+01	2.02E-01	2.15E-04	1.14E+00	4.63E+00
570	1.75E+01	7.69E+01	1.75E-01	1.74E-04	1.27E+00	4.14E+00
580	1.90E+01	7.57E+01	1.51E-01	1.41E-04	1.42E+00	3.69E+00
590	2.06E+01	7.44E+01	1.30E-01	1.14E-04	1.57E+00	3.29E+00
600	2.23E+01	7.31E+01	1.12E-01	9.16E-05	1.71E+00	2.92E+00
610	2.40E+01	7.14E+01	9.61E-02	7.38E-05	1.93E+00	2.59E+00
620	2.58E+01	6.97E+01	8.26E-02	5.93E-05	2.12E+00	2.30E+00
630	2.77E+01	6.79E+01	7.07E-02	4.76E-05	2.33E+00	2.03E+00
640	2.96E+01	6.60E+01	6.04E-02	3.81E-05	2.56E+00	1.79E+00
650	3.16E+01	6.39E+01	5.15E-02	3.05E-05	2.80E+00	1.58E+00
660	3.37E+01	6.18E+01	4.39E-02	2.43E-05	3.05E+00	1.39E+00
670	3.58E+01	5.97E+01	3.73E-02	1.94E-05	3.32E+00	1.22E+00
680	3.79E+01	5.74E+01	3.16E-02	1.54E-05	3.60E+00	1.06E+00
690	4.00E+01	5.52E+01	2.67E-02	1.22E-05	3.89E+00	9.29E-01
700	4.21E+01	5.28E+01	2.25E-02	9.71E-06	4.20E+00	8.10E-01
710	4.43E+01	5.05E+01	1.90E-02	7.68E-06	4.51E+00	7.01E-01
720	4.64E+01	4.82E+01	1.60E-02	6.06E-06	4.84E+00	6.11E-01
730	4.85E+01	4.58E+01	1.34E-02	4.78E-06	5.18E+00	5.29E-01
740	5.05E+01	4.35E+01	1.12E-02	3.76E-06	5.53E+00	4.57E-01
750	5.25E+01	4.12E+01	9.39E-03	2.95E-06	5.89E+00	3.91E-01
760	5.45E+01	3.89E+01	7.83E-03	2.32E-06	6.25E+00	3.39E-01
770	5.64E+01	3.67E+01	6.52E-03	1.81E-06	6.62E+00	2.92E-01
780	5.82E+01	3.45E+01	5.42E-03	1.42E-06	6.99E+00	2.52E-01
790	6.00E+01	3.24E+01	4.50E-03	1.11E-06	7.37E+00	2.18E-01
800	6.17E+01	3.04E+01	3.73E-03	8.62E-07	7.76E+00	1.83E-01

Широтные вариации состава при средней солнечной активности
для летнего солнцестояния в северном и зимнего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D—172; LAT—0; LON—45; LT—12; W—150; F _{10.7} —150; A _p —100; UT1—9						
80	5.59E-04	1.21E-03	2.08E+01	8.92E-01	1.57E-05	7.84E+01
90	6.16E-04	3.08E-01	2.02E+01	8.53E-01	9.68E-05	7.86E+01
100	9.59E-04	3.43E+00	1.78E+01	7.22E-01	1.46E-04	7.80E+01
110	2.53E-03	1.06E+01	1.28E+01	4.70E-01	3.37E-04	7.61E+01
120	7.42E-03	1.90E+01	8.30E+00	2.86E-01	6.83E-04	7.24E+01
130	1.38E-02	2.53E+01	6.07E+00	1.95E-01	7.99E-04	6.85E+01
140	2.18E-02	3.01E+01	5.00E+00	1.42E-01	8.00E-04	6.47E+01
150	3.15E-02	3.42E+01	4.37E+00	1.07E-01	7.81E-04	6.13E+01
160	4.33E-02	3.80E+01	3.89E+00	8.37E-02	7.84E-04	5.79E+01
170	5.71E-02	4.16E+01	3.49E+00	6.68E-02	8.24E-04	5.48E+01
180	7.33E-02	4.50E+01	3.14E+00	5.41E-02	9.06E-04	5.17E+01
190	9.22E-02	4.84E+01	2.83E+00	4.42E-02	1.03E-03	4.87E+01
200	1.14E-01	5.16E+01	2.54E+00	3.63E-02	1.20E-03	4.57E+01
210	1.39E-01	5.47E+01	2.29E+00	2.99E-02	1.43E-03	4.29E+01
220	1.68E-01	5.76E+01	2.05E+00	2.47E-02	1.70E-03	4.01E+01
230	2.01E-01	6.05E+01	1.84E+00	2.04E-02	2.04E-03	3.74E+01
240	2.38E-01	6.33E+01	1.64E+00	1.69E-02	2.46E-03	3.48E+01
250	2.81E-01	6.59E+01	1.47E+00	1.39E-02	2.95E-03	3.23E+01
260	3.29E-01	6.84E+01	1.31E+00	1.15E-02	3.53E-03	2.99E+01
270	3.83E-01	7.08E+01	1.16E+00	9.45E-03	4.21E-03	2.76E+01
280	4.45E-01	7.30E+01	1.03E+00	7.77E-03	5.01E-03	2.55E+01
290	5.13E-01	7.51E+01	9.11E-01	6.38E-03	5.93E-03	2.34E+01
300	5.91E-01	7.71E+01	8.08E-01	5.24E-03	7.01E-03	2.15E+01
310	6.79E-01	7.88E+01	7.15E-01	4.30E-03	8.28E-03	1.98E+01
320	7.75E-01	8.05E+01	6.30E-01	3.52E-03	9.72E-03	1.81E+01
330	8.83E-01	8.21E+01	5.54E-01	2.88E-03	1.14E-02	1.65E+01
340	1.00E+00	8.35E+01	4.87E-01	2.35E-03	1.33E-02	1.50E+01
350	1.14E+00	8.47E+01	4.27E-01	1.92E-03	1.55E-02	1.37E+01
360	1.29E+00	8.59E+01	3.75E-01	1.56E-03	1.80E-02	1.24E+01
370	1.45E+00	8.69E+01	3.28E-01	1.27E-03	2.08E-02	1.13E+01
380	1.63E+00	8.78E+01	2.87E-01	1.04E-03	2.41E-02	1.02E+01
390	1.84E+00	8.86E+01	2.51E-01	8.43E-04	2.78E-02	9.27E+00
400	2.06E+00	8.93E+01	2.19E-01	6.85E-04	3.21E-02	8.39E+00
410	2.31E+00	8.99E+01	1.91E-01	5.57E-04	3.69E-02	7.59E+00
420	2.58E+00	9.04E+01	1.67E-01	4.52E-04	4.24E-02	6.86E+00
430	2.88E+00	9.07E+01	1.45E-01	3.67E-04	4.86E-02	6.19E+00
440	3.22E+00	9.10E+01	1.26E-01	2.98E-04	5.57E-02	5.58E+00
450	3.58E+00	9.12E+01	1.10E-01	2.42E-04	6.37E-02	5.04E+00
460	3.98E+00	9.13E+01	9.58E-02	1.96E-04	7.27E-02	4.54E+00
470	4.43E+00	9.13E+01	8.33E-02	1.59E-04	8.29E-02	4.09E+00
480	4.91E+00	9.12E+01	7.23E-02	1.29E-04	9.45E-02	3.68E+00
490	5.44E+00	9.11E+01	6.28E-02	1.04E-04	1.07E-01	3.31E+00
500	6.02E+00	9.08E+01	5.45E-02	8.44E-05	1.22E-01	2.97E+00

z , км	He/S, %	O ₂ /S, %	O ₁ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	6.66E+00	9.05E+01	4.73E-02	6.83E-05	1.38E-01	2.67E+00
520	7.35E+00	9.01E+01	4.10E-02	5.53E-05	1.57E-01	2.39E+00
530	8.10E+00	8.95E+01	3.55E-02	4.47E-05	1.77E-01	2.15E+00
540	8.91E+00	8.89E+01	3.08E-02	3.62E-05	2.00E-01	1.92E+00
550	9.80E+00	8.82E+01	2.66E-02	2.92E-05	2.26E-01	1.72E+00
560	1.08E+01	8.74E+01	2.30E-02	2.36E-05	2.54E-01	1.54E+00
570	1.18E+01	8.65E+01	1.99E-02	1.91E-05	2.86E-01	1.38E+00
580	1.29E+01	8.55E+01	1.72E-02	1.54E-05	3.21E-01	1.23E+00
590	1.41E+01	8.44E+01	1.48E-02	1.24E-05	3.60E-01	1.10E+00
600	1.54E+01	8.32E+01	1.28E-02	9.98E-06	4.02E-01	9.78E-01
610	1.67E+01	8.19E+01	1.10E-02	8.03E-06	4.49E-01	8.70E-01
620	1.82E+01	8.05E+01	9.11E-03	6.45E-06	5.01E-01	7.73E-01
630	1.97E+01	7.90E+01	8.10E-03	5.18E-06	5.57E-01	6.86E-01
640	2.14E+01	7.74E+01	6.95E-03	4.16E-06	6.18E-01	6.09E-01
650	2.31E+01	7.57E+01	5.95E-03	3.33E-06	6.84E-01	5.39E-01
660	2.49E+01	7.39E+01	5.09E-03	2.66E-06	7.56E-01	4.76E-01
670	2.68E+01	7.20E+01	4.41E-03	2.13E-06	8.34E-01	4.20E-01
680	2.87E+01	7.00E+01	3.70E-03	1.70E-06	9.18E-01	3.70E-01
690	3.08E+01	6.79E+01	3.15E-03	1.35E-06	1.01E+00	3.25E-01
700	3.28E+01	6.58E+01	2.67E-03	1.08E-06	1.10E+00	2.85E-01
710	3.50E+01	6.35E+01	2.27E-03	8.56E-07	1.20E+00	2.50E-01
720	3.72E+01	6.13E+01	1.92E-03	6.79E-07	1.31E+00	2.19E-01
730	3.95E+01	5.89E+01	1.62E-03	5.37E-07	1.42E+00	1.91E-01
740	4.17E+01	5.66E+01	1.37E-03	4.25E-07	1.54E+00	1.66E-01
750	4.40E+01	5.42E+01	1.15E-03	3.35E-07	1.67E+00	1.44E-01
760	4.63E+01	5.17E+01	9.66E-04	2.64E-07	1.80E+00	1.25E-01
770	4.86E+01	4.93E+01	8.10E-04	2.07E-07	1.93E+00	1.09E-01
780	5.09E+01	4.69E+01	6.78E-04	1.63E-07	2.07E+00	9.38E-02
790	5.32E+01	4.45E+01	5.66E-04	1.28E-07	2.22E+00	8.08E-02
800	5.54E+01	4.22E+01	4.72E-04	9.98E-08	2.37E+00	6.96E-02

D-172; LAT-10; LON-45; LT-12; F-150; FΔV-150; A_g-100; UT1-9

80	5.12E-04	1.11E-03	2.05E+01	8.93E-01	1.38E-05	7.83E+01
90	6.05E-04	2.80E-04	2.02E+01	8.50E-01	8.66E-05	7.86E+01
100	9.58E-04	3.13E+00	1.79E+01	7.14E-01	1.35E-04	7.82E+01
110	2.34E-03	9.10E+00	1.34E+01	4.93E-01	2.76E-04	7.70E+01
120	1.93E-03	1.55E+01	9.19E+00	3.28E-01	4.35E-04	7.50E+01
130	5.80E-03	2.02E+01	6.99E+00	2.34E-01	4.77E-04	7.26E+01
140	6.75E-03	2.38E+01	5.94E+00	1.76E-01	4.51E-04	7.01E+01
150	9.18E-03	2.69E+01	5.33E+00	1.38E-01	4.19E-04	6.77E+01
160	1.24E-02	2.97E+01	4.87E+00	1.11E-01	4.05E-04	6.53E+01
170	1.63E-02	3.24E+01	4.48E+00	9.19E-02	4.14E-04	6.30E+01
180	2.09E-02	3.50E+01	4.14E+00	7.69E-02	4.45E-04	6.07E+01
190	2.62E-02	3.76E+01	3.82E+00	6.49E-02	4.99E-04	5.85E+01
200	3.25E-02	4.02E+01	3.52E+00	5.51E-02	5.77E-04	5.61E+01

z, мм	He/S, %	O/S, %	O ₂ S, %	Ar/S, %	H/S, %	N ₂ S, %
210	3,96E-02	4,29E+01	3,25E+00	4,70E-02	6,79E-04	5,38E+01
220	4,79E-02	4,55E+01	3,00E+00	4,01E-02	8,08E-04	5,15E+01
230	5,74E-02	4,81E+01	2,75E+00	3,42E-02	9,67E-04	4,91E+01
240	6,83E-02	5,07E+01	2,53E+00	2,92E-02	1,16E-03	4,67E+01
250	8,07E-02	5,32E+01	2,31E+00	2,49E-02	1,39E-03	4,43E+01
260	9,48E-02	5,58E+01	2,12E+00	2,12E-02	1,66E-03	4,20E+01
270	1,11E-01	5,83E+01	1,93E+00	1,80E-02	1,99E-03	3,97E+01
280	1,29E-01	6,07E+01	1,76E+00	1,53E-02	2,36E-03	3,74E+01
290	1,49E-01	6,31E+01	1,59E+00	1,30E-02	2,80E-03	3,51E+01
300	1,72E-01	6,54E+01	1,45E+00	1,10E-02	3,31E-03	3,30E+01
310	1,99E-01	6,74E+01	1,32E+00	9,34E-03	3,93E-03	3,10E+01
320	2,28E-01	6,96E+01	1,19E+00	7,87E-03	4,60E-03	2,90E+01
330	2,60E-01	7,17E+01	1,07E+00	6,62E-03	5,38E-03	2,70E+01
340	2,95E-01	7,37E+01	9,60E-01	5,57E-03	6,27E-03	2,51E+01
350	3,35E-01	7,55E+01	8,61E-01	4,67E-03	7,29E-03	2,32E+01
360	3,79E-01	7,73E+01	7,72E-01	3,92E-03	8,45E-03	2,15E+01
370	4,28E-01	7,90E+01	6,90E-01	3,28E-03	9,78E-03	1,99E+01
380	4,81E-01	8,05E+01	6,17E-01	2,74E-03	1,13E-02	1,84E+01
390	5,41E-01	8,19E+01	5,50E-01	2,29E-03	1,30E-02	1,70E+01
400	6,07E-01	8,33E+01	4,91E-01	1,91E-03	1,49E-02	1,56E+01
410	6,79E-01	8,45E+01	4,37E-01	1,60E-03	1,71E-02	1,44E+01
420	7,59E-01	8,56E+01	3,89E-01	1,33E-03	1,96E-02	1,32E+01
430	8,46E-01	8,67E+01	3,46E-01	1,11E-03	2,24E-02	1,21E+01
440	9,43E-01	8,75E+01	3,07E-01	9,22E-04	2,56E-02	1,11E+01
450	1,05E+00	8,85E+01	2,72E-01	7,68E-04	2,92E-02	1,02E+01
460	1,17E+00	8,92E+01	2,42E-01	6,38E-04	3,32E-02	9,34E+00
470	1,29E+00	8,99E+01	2,14E-01	5,31E-04	3,77E-02	8,55E+00
480	1,43E+00	9,05E+01	1,90E-01	4,41E-04	4,28E-02	7,82E+00
490	1,59E+00	9,10E+01	1,68E-01	3,67E-04	4,85E-02	7,15E+00
500	1,75E+00	9,15E+01	1,49E-01	3,05E-04	5,49E-02	6,53E+00
510	1,94E+00	9,19E+01	1,32E-01	2,53E-04	6,21E-02	5,97E+00
520	2,14E+00	9,22E+01	1,16E-01	2,10E-04	7,02E-02	5,45E+00
530	2,35E+00	9,25E+01	1,03E-01	1,74E-04	7,92E-02	4,97E+00
540	2,59E+00	9,27E+01	9,10E-02	1,45E-04	8,93E-02	4,53E+00
550	2,85E+00	9,28E+01	8,04E-02	1,20E-04	1,01E-01	4,13E+00
560	3,13E+00	9,29E+01	7,10E-02	9,97E-05	1,13E-01	3,77E+00
570	3,44E+00	9,29E+01	6,27E-02	8,28E-05	1,27E-01	3,43E+00
580	3,78E+00	9,29E+01	5,54E-02	6,87E-05	1,43E-01	3,13E+00
590	4,14E+00	9,28E+01	4,89E-02	5,70E-05	1,60E-01	2,85E+00
600	4,53E+00	9,27E+01	4,31E-02	4,73E-05	1,80E-01	2,59E+00
610	4,96E+00	9,21E+01	3,81E-02	3,92E-05	2,01E-01	2,36E+00
620	5,42E+00	9,22E+01	3,36E-02	3,25E-05	2,25E-01	2,14E+00
630	5,92E+00	9,18E+01	2,96E-02	2,70E-05	2,51E-01	1,95E+00
640	6,46E+00	9,15E+01	2,61E-02	2,24E-05	2,81E-01	1,77E+00
650	7,04E+00	9,10E+01	2,30E-02	1,86E-05	3,13E-01	1,61E+00
660	7,67E+00	9,05E+01	2,02E-02	1,51E-05	3,49E-01	1,45E+00

z, км	He/S, %	O/S, %	O/S, %	Ar/S, %	H/S, %	N ₂ /S, %
670	8.35E+00	8.99E+01	1.78E-02	1.27E-05	3.88E-01	1.32E+00
680	9.07E+00	8.93E+01	1.57E-02	1.06E-05	4.31E-01	1.20E+00
690	9.85E+00	8.86E+01	1.38E-02	8.75E-06	4.79E-01	1.09E+00
700	1.07E+01	8.78E+01	1.21E-02	7.24E-06	5.31E-01	9.87E-01
710	1.16E+01	8.69E+01	1.07E-02	6.00E-06	5.89E-01	8.93E-01
720	1.25E+01	8.60E+01	9.36E-03	4.96E-06	6.51E-01	8.08E-01
730	1.35E+01	8.50E+01	8.22E-03	4.10E-06	7.20E-01	7.31E-01
740	1.46E+01	8.39E+01	7.21E-03	3.39E-06	7.94E-01	6.60E-01
750	1.57E+01	8.28E+01	6.32E-03	2.80E-06	8.75E-01	5.96E-01
760	1.69E+01	8.16E+01	5.53E-03	2.31E-06	9.63E-01	5.37E-01
770	1.82E+01	8.03E+01	4.84E-03	1.91E-06	1.06E+00	4.84E-01
780	1.95E+01	7.89E+01	4.23E-03	1.57E-06	1.16E+00	4.36E-01
790	2.09E+01	7.74E+01	3.69E-03	1.30E-06	1.27E+00	3.92E-01
800	2.24E+01	7.59E+01	3.22E-03	1.07E-06	1.39E+00	3.52E-01

D-172; LAT-80; LON-45; LT-12; F-150; FAV-150; A_p-100; UT1-9

80	5.37E-04	3.23E-04	2.08E+01	9.66E-01	1.40E-05	7.82E+01
90	5.89E-04	2.26E-01	2.05E+01	9.67E-01	8.69E-05	7.83E+01
100	9.51E-04	2.49E+00	1.88E+01	8.66E-01	1.48E-04	7.79E+01
110	2.09E-03	6.71E+03	1.57E+01	7.03E-01	2.77E-01	7.69E+01
120	3.29E-03	1.05E+01	1.27E+01	5.81E-01	3.61E-04	7.62E+01
130	2.65E-03	1.32E+01	1.09E+01	5.01E-01	3.81E-04	7.54E+01
140	2.14E-03	1.51E+01	9.87E+00	4.42E-01	3.59E-04	7.46E+01
150	3.16E-03	1.67E+01	9.19E+00	3.93E-01	3.36E-04	7.37E+01
160	4.26E-03	1.83E+01	8.66E+00	3.48E-01	3.29E-04	7.27E+01
170	5.62E-03	1.97E+01	8.18E+00	3.08E-01	3.40E-04	7.18E+01
180	7.25E-03	2.12E+01	7.74E+00	2.71E-01	3.72E-04	7.08E+01
190	9.21E-03	2.28E+01	7.32E+00	2.39E-01	4.24E-04	6.97E+01
200	1.16E-02	2.44E+01	6.92E+00	2.10E-01	4.98E-04	6.85E+01
210	1.43E-02	2.61E+01	6.55E+00	1.84E-01	5.96E-04	6.72E+01
220	1.76E-02	2.79E+01	6.18E+00	1.62E-01	7.23E-04	6.58E+01
230	2.15E-02	2.98E+01	5.82E+00	1.42E-01	8.83E-04	6.43E+01
240	2.61E-02	3.17E+01	5.47E+00	1.24E-01	1.08E-03	6.26E+01
250	3.15E-02	3.38E+01	5.14E+00	1.09E-01	1.32E-03	6.09E+01
260	3.79E-02	3.60E+01	4.81E+00	9.52E-02	1.62E-03	5.91E+01
270	4.52E-02	3.82E+01	4.49E+00	8.29E-02	1.97E-03	5.71E+01
280	5.38E-02	4.05E+01	4.19E+00	7.21E-02	2.40E-03	5.51E+01
290	6.37E-02	4.29E+01	3.89E+00	6.26E-02	2.91E-03	5.30E+01
300	7.51E-02	4.54E+01	3.61E+00	5.42E-02	3.52E-03	5.09E+01
310	8.92E-02	4.72E+01	3.38E+00	4.74E-02	4.28E-03	4.93E+01
320	1.04E-01	4.97E+01	3.11E+00	4.08E-02	5.13E-03	4.70E+01
330	1.21E-01	5.23E+01	2.86E+00	3.51E-02	6.11E-03	4.47E+01
340	1.41E-01	5.49E+01	2.62E+00	3.01E-02	7.27E-03	4.23E+01
350	1.63E-01	5.74E+01	2.40E+00	2.57E-02	8.62E-03	4.00E+01
360	1.88E-01	5.98E+01	2.19E+00	2.20E-02	1.02E-02	3.78E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
370	2.15E-01	6.22E+01	1.99E+00	1.87E-02	1.20E-02	3.56E+01
380	2.47E-01	6.45E+01	1.81E+00	1.59E-02	1.41E-02	3.34E+01
390	2.82E-01	6.67E+01	1.64E+00	1.35E-02	1.65E-02	3.13E+01
400	3.21E-01	6.89E+01	1.49E+00	1.15E-02	1.93E-02	2.93E+01
410	3.65E-01	7.09E+01	1.34E+00	9.70E-03	2.24E-02	2.73E+01
420	4.11E-01	7.29E+01	1.21E+00	8.19E-03	2.61E-02	2.55E+01
430	4.68E-01	7.47E+01	1.09E+00	6.91E-03	3.02E-02	2.37E+01
440	5.27E-01	7.65E+01	9.80E-01	5.82E-03	3.49E-02	2.20E+01
450	5.94E-01	7.81E+01	8.80E-01	4.89E-03	4.02E-02	2.04E+01
460	6.67E-01	7.96E+01	7.88E-01	4.11E-03	4.63E-02	1.89E+01
470	7.48E-01	8.11E+01	7.03E-01	3.45E-03	5.32E-02	1.74E+01
480	8.36E-01	8.24E+01	6.31E-01	2.89E-03	6.09E-02	1.61E+01
490	9.34E-01	8.36E+01	5.67E-01	2.42E-03	6.97E-02	1.49E+01
500	1.04E+00	8.47E+01	5.02E-01	2.03E-03	7.96E-02	1.37E+01
510	1.16E+00	8.57E+01	4.48E-01	1.70E-03	9.08E-02	1.26E+01
520	1.29E+00	8.67E+01	3.99E-01	1.42E-03	1.03E-01	1.16E+01
530	1.43E+00	8.75E+01	3.55E-01	1.18E-03	1.17E-01	1.06E+01
540	1.59E+00	8.82E+01	3.15E-01	9.89E-04	1.33E-01	9.74E+00
550	1.76E+00	8.89E+01	2.80E-01	8.25E-04	1.51E-01	8.93E+00
560	1.94E+00	8.95E+01	2.49E-01	6.88E-04	1.71E-01	8.18E+00
570	2.14E+00	9.00E+01	2.21E-01	5.74E-04	1.93E-01	7.49E+00
580	2.36E+00	9.04E+01	1.96E-01	4.78E-04	2.18E-01	6.85E+00
590	2.61E+00	9.07E+01	1.74E-01	3.98E-04	2.46E-01	6.27E+00
600	2.87E+00	9.10E+01	1.54E-01	3.32E-04	2.77E-01	5.73E+00
610	3.15E+00	9.12E+01	1.36E-01	2.76E-04	3.12E-01	5.23E+00
620	3.46E+00	9.13E+01	1.21E-01	2.30E-04	3.51E-01	4.78E+00
630	3.80E+00	9.13E+01	1.07E-01	1.91E-04	3.94E-01	4.36E+00
640	4.16E+00	9.13E+01	9.45E-02	1.59E-04	4.41E-01	3.98E+00
650	4.56E+00	9.12E+01	8.35E-02	1.32E-04	4.94E-01	3.62E+00
660	4.98E+00	9.11E+01	7.38E-02	1.10E-04	5.53E-01	3.30E+00
670	5.45E+00	9.09E+01	6.52E-02	9.16E-05	6.18E-01	3.01E+00
680	5.94E+00	9.06E+01	5.76E-02	7.62E-05	6.90E-01	2.74E+00
690	6.48E+00	9.02E+01	5.09E-02	6.37E-05	7.70E-01	2.49E+00
700	7.06E+00	8.98E+01	4.49E-02	5.23E-05	8.58E-01	2.26E+00
710	7.68E+00	8.93E+01	3.96E-02	4.37E-05	9.55E-01	2.06E+00
720	8.35E+00	8.87E+01	3.49E-02	3.63E-05	1.06E+00	1.87E+00
730	9.03E+00	8.80E+01	3.07E-02	3.01E-05	1.18E+00	1.70E+00
740	9.82E+00	8.73E+01	2.71E-02	2.50E-05	1.31E+00	1.54E+00
750	1.06E+01	8.65E+01	2.38E-02	2.07E-05	1.45E+00	1.39E+00
760	1.15E+01	8.56E+01	2.09E-02	1.72E-05	1.60E+00	1.26E+00
770	1.24E+01	8.46E+01	1.84E-02	1.42E-05	1.77E+00	1.14E+00
780	1.34E+01	8.36E+01	1.62E-02	1.18E-05	1.95E+00	1.03E+00
790	1.44E+01	8.25E+01	1.42E-02	9.73E-06	2.14E+00	0.94E+00
800	1.55E+01	8.12E+01	1.21E-02	8.07E-06	2.36E+00	0.84E+00

Продолжение табл. 20

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N ₂ /S, %	N/S, %
D—172; LAT—40; LON—45; LT—12, F—150; FAV—150; A _p —100; UTI—9						
80	5.45E-04	1.31E-03	2.08E+01	8.91E-01	1.54E-05	7.83E+01
90	6.08E-04	2.36E-01	2.04E+01	8.45E-01	1.00E-04	7.84E+01
100	9.49E-04	3.79E+00	1.84E+01	7.03E-01	1.59E-04	7.71E+01
110	2.40E-03	1.11E+01	1.42E+01	4.70E-01	3.48E-04	7.41E+01
120	6.18E-03	1.88E+01	1.05E+01	3.05E-01	5.68E-04	7.04E+01
130	1.48E-02	2.49E+01	8.28E-00	2.11E-01	6.54E-04	6.66E+01
140	2.81E-02	2.99E+01	7.01E+00	1.52E-01	6.67E-04	6.29E+01
150	4.22E-02	3.44E+01	6.14E+00	1.13E-01	6.67E-04	5.93E+01
160	5.85E-02	3.86E+01	5.44E+00	8.74E-02	6.85E-04	5.58E+01
170	7.76E-02	4.26E+01	4.84E+00	6.87E-02	7.35E-04	5.24E+01
180	1.00E-01	4.65E+01	4.31E+00	5.47E-02	8.20E-04	4.90E+01
190	1.26E-01	5.02E+01	3.84E+00	4.40E-02	9.44E-04	4.57E+01
200	1.57E-01	5.38E+01	3.41E+00	3.56E-02	1.11E-03	4.26E+01
210	1.92E-01	5.72E+01	3.03E+00	2.88E-02	1.33E-03	3.95E+01
220	2.32E-01	6.05E+01	2.69E+00	2.34E-02	1.60E-03	3.66E+01
230	2.78E-01	6.35E+01	2.38E+00	1.90E-02	1.92E-03	3.38E+01
240	3.31E-01	6.64E+01	2.10E+00	1.55E-02	2.32E-03	3.11E+01
250	3.90E-01	6.92E+01	1.85E+00	1.26E-02	2.79E-03	2.86E+01
260	4.58E-01	7.17E+01	1.63E+00	1.02E-02	3.35E-03	2.62E+01
270	5.34E-01	7.40E+01	1.44E+00	8.29E-03	4.01E-03	2.40E+01
280	6.20E-01	7.62E+01	1.26E+00	6.72E-03	4.78E-03	2.19E+01
290	7.16E-01	7.82E+01	1.10E+00	5.44E-03	5.68E-03	2.00E+01
300	8.25E-01	8.00E+01	9.65E-01	4.41E-03	6.72E-03	1.82E+01
310	9.44E-01	8.18E+01	8.41E-01	3.55E-03	7.91E-03	1.64E+01
320	1.08E+00	8.33E+01	7.34E-01	2.87E-03	9.32E-03	1.49E+01
330	1.23E+00	8.46E+01	6.40E-01	2.32E-03	1.09E-02	1.35E+01
340	1.40E+00	8.58E+01	5.57E-01	1.87E-03	1.28E-02	1.22E+01
350	1.59E+00	8.69E+01	4.85E-01	1.51E-03	1.49E-02	1.10E+01
360	1.80E+00	8.78E+01	4.21E-01	1.21E-03	1.74E-02	9.96E+00
370	2.04E+00	8.86E+01	3.66E-01	9.78E-04	2.02E-02	8.98E+00
380	2.30E+00	8.93E+01	3.17E-01	7.87E-04	2.35E-02	8.09E+00
390	2.59E+00	8.98E+01	2.75E-01	6.33E-04	2.72E-02	7.27E+00
400	2.91E+00	9.03E+01	2.38E-01	5.09E-04	3.14E-02	6.54E+00
410	3.26E+00	9.06E+01	2.06E-01	4.09E-04	3.63E-02	5.87E+00
420	3.65E+00	9.09E+01	1.78E-01	3.28E-04	4.18E-02	5.27E+00
430	4.09E+00	9.10E+01	1.54E-01	2.64E-04	4.80E-02	4.73E+00
440	4.57E+00	9.10E+01	1.33E-01	2.12E-04	5.51E-02	4.23E+00
450	5.09E+00	9.09E+01	1.15E-01	1.70E-04	6.32E-02	3.79E+00
460	5.67E+00	9.08E+01	9.90E-02	1.36E-04	7.23E-02	3.39E+00
470	6.31E+00	9.05E+01	8.54E-02	1.09E-04	8.26E-02	3.03E+00
480	7.00E+00	9.01E+01	7.35E-02	8.74E-05	9.43E-02	2.71E+00
490	7.76E+00	8.96E+01	6.33E-02	7.00E-05	1.07E-01	2.42E+00
500	8.59E+00	8.91E+01	5.44E-02	5.60E-05	1.22E-01	2.16E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	9.50E+00	8.84E+01	4.68E-02	4.48E-05	1.39E-01	1.92E+00
520	1.05E+01	8.76E+01	4.02E-02	3.58E-05	1.57E-01	1.71E+00
530	1.16E+01	8.67E+01	3.45E-02	2.86E-05	1.78E-01	1.52E+00
540	1.27E+01	8.57E+01	2.96E-02	2.29E-05	2.01E-01	1.35E+00
550	1.40E+01	8.46E+01	2.53E-02	1.82E-05	2.27E-01	1.20E+00
560	1.53E+01	8.34E+01	2.17E-02	1.45E-05	2.55E-01	1.06E+00
570	1.67E+01	8.20E+01	1.85E-02	1.16E-05	2.87E-01	9.40E-01
580	1.83E+01	8.06E+01	1.58E-02	9.20E-06	3.21E-01	8.30E-01
590	1.99E+01	7.90E+01	1.34E-02	7.31E-06	3.59E-01	7.33E-01
600	2.16E+01	7.73E+01	1.14E-02	5.80E-06	4.01E-01	6.46E-01
610	2.34E+01	7.55E+01	9.72E-03	4.59E-06	4.46E-01	5.68E-01
620	2.54E+01	7.36E+01	8.25E-03	3.63E-06	4.96E-01	4.99E-01
630	2.77E+01	7.16E+01	6.98E-03	2.87E-06	5.49E-01	4.37E-01
640	2.95E+01	6.95E+01	5.90E-03	2.26E-06	6.07E-01	3.83E-01
650	3.17E+01	6.73E+01	4.98E-03	1.78E-06	6.69E-01	3.34E-01
660	3.39E+01	6.50E+01	4.19E-03	1.40E-06	7.35E-01	2.91E-01
670	3.62E+01	6.27E+01	3.52E-03	1.10E-06	8.06E-01	2.53E-01
680	3.86E+01	6.03E+01	2.95E-03	8.61E-07	8.81E-01	2.20E-01
690	4.10E+01	5.78E-01	2.47E-03	6.73E-07	9.60E-01	1.90E-01
700	4.35E+01	5.53E+01	2.06E-03	5.25E-07	1.04E+00	1.64E-01
710	4.59E+01	5.28E+01	1.72E-03	4.09E-07	1.13E+00	1.42E-01
720	4.84E+01	5.03E+01	1.43E-03	3.18E-07	1.22E+00	1.22E-01
730	5.08E+01	4.77E+01	1.19E-03	2.46E-07	1.32E+00	1.03E-01
740	5.23E+01	4.52E+01	9.83E-04	1.91E-07	1.42E+00	8.96E-02
750	5.57E+01	4.27E+01	8.12E-04	1.47E-07	1.52E+00	7.66E-02
760	5.80E+01	4.03E+01	6.70E-04	1.14E-07	1.62E+00	6.51E-02
770	6.03E+01	3.79E+01	5.51E-04	8.76E-08	1.73E+00	5.56E-02
780	6.26E+01	3.56E+01	4.53E-04	6.73E-08	1.84E+00	4.72E-02
790	6.47E+01	3.33E+01	3.72E-04	5.17E-08	1.95E+00	4.00E-02
800	6.68E+01	3.11E+01	3.04E-04	3.96E-08	2.06E+00	3.39E-02

D-172; LAT- -80; LON -45; LT-12; F-150; FAV-150; A₂-100; UTI-9

80	5.45E-04	9.53E-04	2.09E+01	9.54E-01	1.50E-05	7.81E+01
90	6.00E-04	2.34E-01	2.07E+01	9.47E-01	9.40E-05	7.81E+01
100	9.45E-04	2.55E+00	4.96E+01	8.39E-01	1.52E-04	7.71E+01
110	2.19E-03	6.90E+00	1.75E+01	6.53E-01	2.99E-04	7.50E+01
120	4.14E-03	1.07E+01	1.57E+01	5.21E-01	4.00E-04	7.31E+01
130	5.86E-03	1.35E+01	1.44E+01	4.35E-01	4.30E-04	7.17E+01
140	7.98E-03	1.57E+01	1.34E+01	3.72E-01	4.23E-04	7.06E+01
150	1.13E-02	1.76E+01	1.25E+01	3.23E-01	4.14E-04	6.96E+01
160	1.57E-02	1.94E+01	1.17E+01	2.81E-01	4.21E-04	6.85E+01
170	2.11E-02	2.12E+01	1.10E+01	2.45E-01	4.49E-04	6.75E+01
180	2.76E-02	2.29E+01	1.04E+01	2.14E-01	5.01E-04	6.64E+01
190	3.53E-02	2.47E+01	9.82E+00	1.87E-01	5.80E-04	6.53E+01
200	4.45E-02	2.65E+01	9.27E+00	1.64E-01	6.87E-04	6.40E+01

z, км	He/S, %	O ₂ /S, %	O/S, %	Ar/S, %	N ₂ /S, %	N/S, %
210	5.52E-02	2.83E+01	8.75E+00	1.11E-01	8.26E-04	6.27E+01
220	6.78E-02	3.02E+01	8.26E+00	1.27E-01	1.00E-03	6.13E+01
230	8.25E-02	3.22E+01	7.78E+00	1.11E-01	1.22E-03	5.98E+01
240	9.95E-02	3.42E+01	7.32E+00	9.79E-02	1.48E-03	5.83E+01
250	1.19E-01	3.63E+01	6.88E+00	8.63E-02	1.79E-03	5.67E+01
260	1.41E-01	3.84E+01	6.46E+00	7.59E-02	2.17E-03	5.50E+01
270	1.67E-01	4.05E+01	6.06E+00	6.66E-02	2.61E-03	5.32E+01
280	1.96E-01	4.27E+01	5.67E+00	5.85E-02	3.13E-03	5.14E+01
290	2.29E-01	4.49E+01	5.29E+00	5.13E-02	3.73E-03	4.95E+01
300	2.66E-01	4.71E+01	4.93E+00	4.49E-02	4.43E-03	4.76E+01
310	3.12E-01	4.88E+01	4.64E+00	3.98E-02	5.30E-03	4.62E+01
320	3.58E-01	5.11E+01	4.31E+00	3.47E-02	6.24E-03	4.42E+01
330	4.11E-01	5.34E+01	3.99E+00	3.03E-02	7.30E-03	4.22E+01
340	4.69E-01	5.57E+01	3.69E+00	2.63E-02	8.53E-03	4.02E+01
350	5.34E-01	5.79E+01	3.40E+00	2.29E-02	9.93E-03	3.82E+01
360	6.06E-01	6.00E+01	3.13E+00	1.99E-02	1.15E-02	3.62E+01
370	6.86E-01	6.21E+01	2.88E+00	1.73E-02	1.33E-02	3.43E+01
380	7.73E-01	6.41E+01	2.65E+00	1.49E-02	1.54E-02	3.25E+01
390	8.70E-01	6.60E+01	2.43E+00	1.29E-02	1.77E-02	3.06E+01
400	9.76E-01	6.79E+01	2.22E+00	1.12E-02	2.03E-02	2.89E+01
410	1.09E+00	6.96E+01	2.03E+00	9.65E-03	2.32E-02	2.72E+01
420	1.22E+00	7.13E+01	1.86E+00	8.32E-03	2.64E-02	2.56E+01
430	1.36E+00	7.29E+01	1.69E+00	7.17E-03	3.01E-02	2.40E+01
440	1.51E+00	7.44E+01	1.54E+00	6.17E-03	3.42E-02	2.25E+01
450	1.68E+00	7.58E+01	1.40E+00	5.30E-03	3.88E-02	2.10E+01
460	1.86E+00	7.72E+01	1.28E+00	4.53E-03	4.39E-02	1.97E+01
470	2.06E+00	7.84E+01	1.16E+00	3.91E-03	4.95E-02	1.84E+01
480	2.27E+00	7.95E+01	1.05E+00	3.35E-03	5.58E-02	1.71E+01
490	2.50E+00	8.05E+01	9.51E-01	2.87E-03	6.28E-02	1.59E+01
500	2.75E+00	8.15E+01	8.61E-01	2.46E-03	7.05E-02	1.48E+01
510	3.02E+00	8.23E+01	7.78E-01	2.10E-03	7.91E-02	1.38E+01
520	3.31E+00	8.31E+01	7.03E-01	1.80E-03	8.85E-02	1.28E+01
530	3.62E+00	8.37E+01	6.35E-01	1.54E-03	9.90E-02	1.19E+01
540	3.96E+00	8.43E+01	5.73E-01	1.31E-03	1.10E-01	1.10E+01
550	4.33E+00	8.48E+01	5.16E-01	1.12E-03	1.23E-01	1.02E+01
560	4.72E+00	8.52E+01	4.65E-01	9.55E-04	1.37E-01	9.46E+00
570	5.14E+00	8.55E+01	4.19E-01	8.14E-04	1.52E-01	8.75E+00
580	5.59E+00	8.58E+01	3.77E-01	6.94E-04	1.69E-01	8.09E+00
590	6.08E+00	8.59E+01	3.39E-01	5.91E-04	1.88E-01	7.47E+00
600	6.59E+00	8.60E+01	3.04E-01	5.03E-04	2.08E-01	6.90E+00
610	7.15E+00	8.60E+01	2.73E-01	4.28E-04	2.30E-01	6.36E+00
620	7.74E+00	8.59E+01	2.45E-01	3.64E-04	2.54E-01	5.86E+00
630	8.37E+00	8.57E+01	2.20E-01	3.09E-04	2.80E-01	5.40E+00
640	9.04E+00	8.55E+01	1.97E-01	2.63E-04	3.09E-01	4.97E+00
650	9.75E+00	8.52E+01	1.77E-01	2.23E-04	3.40E-01	4.57E+00
660	1.05E+01	8.48E+01	1.58E-01	1.90E-04	3.73E-01	4.20E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
670	1.13E+01	8.43E+01	1.41E-01	1.61E-04	4.10E-01	3.86E+00
680	1.22E+01	8.37E+01	1.26E-01	1.36E-04	4.49E-01	3.55E+00
690	1.31E+01	8.31E+01	1.13E-01	1.16E-04	4.92E-01	3.25E+00
700	1.40E+01	8.24E+01	1.01E-01	9.80E-05	5.38E-01	2.98E+00
710	1.50E+01	8.16E+01	9.00E-02	8.30E-05	5.88E-01	2.73E+00
720	1.61E+01	8.07E+01	8.02E-02	7.03E-05	6.42E-01	2.50E+00
730	1.72E+01	7.98E+01	7.15E-02	5.94E-05	6.99E-01	2.28E+00
740	1.83E+01	7.88E+01	6.36E-02	5.02E-05	7.61E-01	2.09E+00
750	1.95E+01	7.77E+01	5.66E-02	4.24E-05	8.26E-01	1.90E+00
760	2.08E+01	7.66E+01	5.03E-02	3.58E-05	8.97E-01	1.74E+00
770	2.21E+01	7.53E+01	4.47E-02	3.02E-05	9.72E-01	1.58E+00
780	2.34E+01	7.40E+01	3.96E-02	2.55E-05	1.05E+00	1.44E+00
790	2.48E+01	7.27E+01	3.51E-02	2.15E-05	1.14E+00	1.31E+00
800	2.63E+01	7.13E+01	3.11E-02	1.81E-05	1.23E+00	1.19E+00

Таблица 21

Широтные вариации состава при высокой солнечной активности
для летнего солнцестояния в северном и зимнего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D—172; LAT—0; LON—45; LT—12; F—200; FAV—200; A _p —100; UT1—9						
80	5.54E-04	1.26E-03	2.07E+01	8.91E-01	1.41E-05	7.84E+01
90	6.17E-04	3.21E-01	2.01E+01	8.51E-01	8.49E-05	7.87E+01
100	9.60E-04	3.60E+00	1.76E+01	7.19E-01	1.21E-04	7.81E+01
110	2.49E-03	1.11E+01	1.24E+01	4.67E-01	2.63E-04	7.60E+01
120	5.09E-03	1.89E+01	8.02E+00	3.06E-01	3.50E-04	7.28E+01
130	9.25E-03	2.44E+01	5.88E+00	2.19E-01	3.38E-04	6.95E+01
140	1.57E-02	2.89E+01	4.87E+00	1.62E-01	3.10E-04	6.61E+01
150	2.34E-02	3.29E+01	4.26E+00	1.24E-01	2.94E-04	6.27E+01
160	3.28E-02	3.68E+01	3.79E+00	9.64E-02	2.95E-04	5.93E+01
170	4.41E-02	4.05E+01	3.40E+00	7.67E-02	3.12E-04	5.60E+01
180	5.73E-02	4.40E+01	3.06E+00	6.21E-02	3.45E-04	5.29E+01
190	7.31E-02	4.74E+01	2.75E+00	5.07E-02	3.98E-04	4.98E+01
200	9.09E-02	5.06E+01	2.48E+00	4.18E-02	4.66E-04	4.68E+01
210	1.11E-01	5.36E+01	2.24E+00	3.47E-02	5.52E-04	4.40E+01
220	1.33E-01	5.66E+01	2.02E+00	2.89E-02	6.57E-04	4.13E+01
230	1.59E-01	5.93E+01	1.82E+00	2.42E-02	7.82E-04	3.87E+01
240	1.87E-01	6.19E+01	1.61E+00	2.03E-02	9.30E-04	3.62E+01
250	2.18E-01	6.44E+01	1.48E+00	1.71E-02	1.10E-03	3.39E+01
260	2.53E-01	6.68E+01	1.34E+00	1.43E-02	1.30E-03	3.16E+01
270	2.91E-01	6.90E+01	1.21E+00	1.21E-02	1.53E-03	2.95E+01
280	3.33E-01	7.11E+01	1.09E+00	1.02E-02	1.79E-03	2.75E+01
290	3.79E-01	7.31E+01	9.77E-01	8.56E-03	2.08E-03	2.56E+01
300	4.29E-01	7.49E+01	8.79E-01	7.21E-03	2.41E-03	2.38E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ /S, %	Na/S, %
310	4.85E-01	7.67E+01	7.90E-01	6.08E-03	2.79E-03	2.21E+01
320	5.46E-01	7.83E+01	7.09E-01	5.11E-03	3.22E-03	2.05E+01
330	6.14E-01	7.98E+01	6.36E-01	4.30E-03	3.70E-03	1.89E+01
340	6.88E-01	8.12E+01	5.70E-01	3.61E-03	4.25E-03	1.75E+01
350	7.69E-01	8.25E+01	5.10E-01	3.03E-03	4.87E-03	1.62E+01
360	8.59E-01	8.38E+01	4.55E-01	2.54E-03	5.57E-03	1.49E+01
370	9.58E-01	8.49E+01	4.07E-01	2.13E-03	6.36E-03	1.37E+01
380	1.07E+00	8.59E+01	3.63E-01	1.79E-03	7.24E-03	1.27E+01
390	1.18E+00	8.68E+01	3.24E-01	1.50E-03	8.24E-03	1.16E+01
400	1.31E+00	8.77E+01	2.88E-01	1.25E-03	9.36E-03	1.07E+01
410	1.46E+00	8.84E+01	2.57E-01	1.05E-03	1.05E-02	9.83E+00
420	1.61E+00	8.91E+01	2.28E-01	8.75E-04	1.20E-02	9.03E+00
430	1.78E+00	8.97E+01	2.03E-01	7.31E-04	1.36E-02	8.28E+00
440	1.96E+00	9.02E+01	1.81E-01	6.11E-04	1.54E-02	7.59E+00
450	2.16E+00	9.07E+01	1.60E-01	5.11E-04	1.73E-02	6.96E+00
460	2.38E+00	9.11E+01	1.43E-01	4.27E-04	1.95E-02	6.37E+00
470	2.62E+00	9.14E+01	1.27E-01	3.57E-04	2.20E-02	5.84E+00
480	2.88E+00	9.16E+01	1.12E-01	2.98E-04	2.47E-02	5.34E+00
490	3.16E+00	9.18E+01	9.97E-02	2.49E-04	2.77E-02	4.88E+00
500	3.47E+00	9.19E+01	8.84E-02	2.08E-04	3.11E-02	4.47E+00
510	3.80E+00	9.20E+01	7.84E-02	1.73E-04	3.48E-02	4.08E+00
520	4.16E+00	9.20E+01	6.95E-02	1.45E-04	3.90E-02	3.73E+00
530	4.53E+00	9.19E+01	6.16E-02	1.21E-04	4.36E-02	3.41E+00
540	4.97E+00	9.18E+01	5.46E-02	1.01E-04	4.87E-02	3.11E+00
550	5.42E+00	9.16E+01	4.84E-02	8.41E-05	5.44E-02	2.84E+00
560	5.91E+00	9.14E+01	4.28E-02	7.01E-05	6.07E-02	2.59E+00
570	6.44E+00	9.11E+01	3.79E-02	5.85E-05	6.76E-02	2.36E+00
580	7.01E+00	9.07E+01	3.35E-02	4.88E-05	7.52E-02	2.15E+00
590	7.62E+00	9.03E+01	2.97E-02	4.07E-05	8.36E-02	1.96E+00
600	8.28E+00	8.98E+01	2.62E-02	3.33E-05	9.29E-02	1.78E+00
610	8.99E+00	8.93E+01	2.32E-02	2.83E-05	1.03E-01	1.62E+00
620	9.74E+00	8.86E+01	2.05E-02	2.36E-05	1.14E-01	1.48E+00
630	1.06E+01	8.80E+01	1.81E-02	1.95E-05	1.26E-01	1.34E+00
640	1.14E+01	8.72E+01	1.60E-02	1.63E-05	1.40E-01	1.22E+00
650	1.23E+01	8.64E+01	1.41E-02	1.36E-05	1.54E-01	1.11E+00
660	1.33E+01	8.55E+01	1.24E-02	1.13E-05	1.70E-01	1.01E+00
670	1.44E+01	8.45E+01	1.09E-02	9.42E-06	1.88E-01	9.12E-01
680	1.55E+01	8.35E+01	9.63E-03	7.83E-06	2.06E-01	8.27E-01
690	1.66E+01	8.24E+01	8.47E-03	6.50E-06	2.27E-01	7.48E-01
700	1.78E+01	8.12E+01	7.45E-03	5.40E-06	2.49E-01	6.77E-01
710	1.91E+01	8.00E+01	6.55E-03	4.48E-06	2.72E-01	6.12E-01
720	2.05E+01	7.86E+01	5.75E-03	3.72E-06	2.98E-01	5.53E-01
730	2.19E+01	7.73E+01	5.04E-03	3.08E-06	3.26E-01	4.99E-01
740	2.34E+01	7.58E+01	4.41E-03	2.55E-06	3.55E-01	4.49E-01
750	2.50E+01	7.42E+01	3.86E-03	2.11E-06	3.87E-01	4.05E-01
760	2.66E+01	7.26E+01	3.83E-03	1.74E-06	4.20E-01	3.64E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	Ne/S, %
770	2.82E+01	7.10E+01	2.95E-03	1.44E-06	4.56E-01	3.27E-01
780	3.00E+01	6.93E+01	2.58E-03	1.19E-06	4.94E-01	2.93E-01
790	3.17E+01	6.75E+01	2.24E-03	9.80E-07	5.35E-01	2.63E-01
800	3.35E+01	6.56E+01	1.95E-03	8.07E-07	5.77E-01	2.35E-01

D-172; LAT-40; LON-45; LT-12; F-200; FAV-200; A_p-100; UT1-9

80	5.42E-04	1.16E-03	2.08E+01	8.92E-01	1.27E-05	7.83E+01
90	6.07E-04	2.92E-01	2.02E+01	8.49E-01	7.54E-05	7.87E+01
100	9.60E-04	3.28E+00	1.77E+01	7.12E-01	1.11E-04	7.83E+01
110	2.15E-03	9.59E+00	1.29E+01	4.89E-01	2.01E-04	7.70E+01
120	3.69E-03	1.58E+01	8.74E+00	3.38E-01	2.42E-04	7.51E+01
130	4.43E-03	1.99E+01	6.66E+00	2.54E-01	2.13E-04	7.32E+01
140	5.69E-03	2.31E+01	5.70E+00	1.98E-01	1.81E-04	7.10E+01
150	7.90E-03	2.60E+01	5.12E+00	1.55E-01	1.61E-04	6.87E+01
160	1.08E-02	2.88E+01	4.69E+00	1.26E-01	1.54E-04	6.63E+01
170	1.44E-02	3.16E+01	4.32E+00	1.04E-01	1.58E-04	6.40E+01
180	1.86E-02	3.42E+01	3.98E+00	8.68E-02	1.71E-04	6.17E+01
190	2.36E-02	3.69E+01	3.67E+00	7.32E-02	1.94E-04	5.93E+01
200	2.94E-02	3.96E+01	3.39E+00	6.23E-02	2.26E-04	5.70E+01
210	3.58E-02	4.21E+01	3.14E+00	5.33E-02	2.66E-04	5.46E+01
220	4.33E-02	4.47E+01	2.90E+00	4.58E-02	3.16E-04	5.24E+01
230	5.17E-02	4.71E+01	2.68E+00	3.95E-02	3.76E-04	5.01E+01
240	6.11E-02	4.96E+01	2.47E+00	3.40E-02	4.48E-04	4.78E+01
250	7.16E-02	5.20E+01	2.28E+00	2.94E-02	5.31E-04	4.56E+01
260	8.32E-02	5.43E+01	2.10E+00	2.54E-02	6.28E-04	4.34E+01
270	9.62E-02	5.66E+01	1.94E+00	2.20E-02	7.39E-04	4.13E+01
280	1.11E-01	5.89E+01	1.78E+00	1.90E-02	8.66E-04	3.92E+01
290	1.26E-01	6.11E+01	1.64E+00	1.64E-02	1.01E-03	3.71E+01
300	1.44E-01	6.32E+01	1.50E+00	1.42E-02	1.17E-03	3.51E+01
310	1.64E-01	6.51E+01	1.39E+00	1.23E-02	1.37E-03	3.34E+01
320	1.85E-01	6.71E+01	1.27E+00	1.06E-02	1.58E-03	3.15E+01
330	2.08E-01	6.90E+01	1.16E+00	9.13E-03	1.81E-03	2.96E+01
340	2.34E-01	7.09E+01	1.06E+00	7.85E-03	2.08E-03	2.78E+01
350	2.62E-01	7.27E+01	9.63E-01	6.74E-03	2.39E-03	2.61E+01
360	2.93E-01	7.44E+01	8.76E-01	5.79E-03	2.73E-03	2.45E+01
370	3.27E-01	7.60E+01	7.97E-01	4.96E-03	3.11E-03	2.29E+01
380	3.64E-01	7.75E+01	7.23E-01	4.25E-03	3.54E-03	2.14E+01
390	4.05E-01	7.89E+01	6.56E-01	3.64E-03	4.02E-03	2.00E+01
400	4.49E-01	8.03E+01	5.95E-01	3.12E-03	4.56E-03	1.87E+01
410	4.97E-01	8.16E+01	5.39E-01	2.67E-03	5.16E-03	1.74E+01
420	5.50E-01	8.28E+01	4.88E-01	2.28E-03	5.83E-03	1.62E+01
430	6.07E-01	8.39E+01	4.41E-01	1.95E-03	6.57E-03	1.51E+01
440	6.69E-01	8.49E+01	3.98E-01	1.66E-03	7.41E-03	1.40E+01
450	7.37E-01	8.59E+01	3.60E-01	1.42E-03	8.33E-03	1.30E+01
460	8.10E-01	8.68E+01	3.25E-01	1.21E-03	9.36E-03	1.21E+01
470	8.90E-01	8.76E+01	2.93E-01	1.03E-03	1.05E-02	1.12E+01
480	9.77E-01	8.84E+01	2.64E-01	8.78E-04	1.18E-02	1.04E+01
490	1.07E+00	8.90E+01	2.38E-01	7.48E-04	1.32E-02	9.63E+00
500	1.17E+00	8.97E+01	2.14E-01	6.38E-04	1.47E-02	8.92E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	1.28E+00	9.03E+01	1.93E-01	5.43E-04	1.64E-02	8.26E+00
520	1.40E+00	9.08E+01	1.74E-01	4.62E-04	1.84E-02	7.64E+00
530	1.53E+00	9.12E+01	1.56E-01	3.94E-04	2.05E-02	7.07E+00
540	1.67E+00	9.16E+01	1.41E-01	3.35E-04	2.28E-02	6.54E+00
550	1.82E+00	9.20E+01	1.26E-01	2.85E-04	2.54E-02	6.04E+00
560	1.98E+00	9.23E+01	1.14E-01	2.43E-04	2.82E-02	5.58E+00
570	2.16E+00	9.25E+01	1.02E-01	2.07E-04	3.13E-02	5.16E+00
580	2.35E+00	9.28E+01	9.19E-02	1.76E-04	3.48E-02	4.76E+00
590	2.55E+00	9.29E+01	8.26E-02	1.50E-04	3.86E-02	4.40E+00
600	2.77E+00	9.30E+01	7.42E-02	1.27E-04	4.28E-02	4.06E+00
610	3.01E+00	9.31E+01	6.67E-02	1.08E-04	4.74E-02	3.75E+00
620	3.26E+00	9.32E+01	5.99E-02	9.23E-05	5.24E-02	3.46E+00
630	3.54E+00	9.32E+01	5.38E-02	7.86E-05	5.80E-02	3.19E+00
640	3.83E+00	9.31E+01	4.83E-02	6.69E-05	6.41E-02	2.94E+00
650	4.15E+00	9.30E+01	4.34E-02	5.69E-05	7.07E-02	2.71E+00
660	4.48E+00	9.29E+01	3.89E-02	4.85E-05	7.81E-02	2.50E+00
670	4.85E+00	9.27E+01	3.49E-02	4.13E-05	8.61E-02	2.31E+00
680	5.24E+00	9.25E+01	3.14E-02	3.51E-05	9.48E-02	2.13E+00
690	5.65E+00	9.23E+01	2.81E-02	2.99E-05	1.04E-01	1.96E+00
700	6.10E+00	9.20E+01	2.52E-02	2.54E-05	1.15E-01	1.80E+00
710	6.57E+00	9.16E+01	2.26E-02	2.17E-05	1.26E-01	1.66E+00
720	7.08E+00	9.12E+01	2.03E-02	1.84E-05	1.39E-01	1.53E+00
730	7.62E+00	9.08E+01	1.82E-02	1.57E-05	1.52E-01	1.41E+00
740	8.19E+00	9.03E+01	1.63E-02	1.33E-05	1.67E-01	1.29E+00
750	8.81E+00	8.98E+01	1.46E-02	1.14E-05	1.83E-01	1.19E+00
760	9.46E+00	8.92E+01	1.31E-02	9.66E-06	2.00E-01	1.10E+00
770	1.01E+01	8.86E+01	1.17E-02	8.22E-06	2.19E-01	1.01E+00
780	1.09E+01	8.79E+01	1.05E-02	6.99E-06	2.40E-01	9.25E-01
790	1.17E+01	8.72E+01	9.41E-03	5.94E-06	2.62E-01	8.49E-01
800	1.25E+01	8.65E+01	8.42E-03	5.05E-06	2.85E-01	7.79E-01

D-172; LAT-80; LON-45; LT-12; F-200; FΔV-200; A_p-100; UT1-9

80	5.38E-04	9.58E-04	2.08E+01	9.65E-01	1.27E-05	7.82E+01
90	5.89E-04	2.36E-03	2.04E+01	9.66E-01	7.50E-05	7.84E+01
100	9.53E-04	2.61E+00	1.86E+01	8.65E-01	1.22E-04	7.80E+01
110	2.16E-03	7.09E+00	1.52E+01	6.99E-01	2.20E-04	7.71E+01
120	3.52E-03	1.11E+01	1.20E+01	5.77E-01	2.67E-04	7.63E+01
130	3.12E-03	1.39E+01	1.01E+01	5.00E-01	2.58E-04	7.55E+01
140	3.03E-03	1.59E+01	9.06E+00	4.44E-01	2.22E-04	7.46E+01
150	3.91E-03	1.75E+01	8.44E+00	3.97E-01	1.92E-04	7.36E+01
160	5.18E-03	1.90E+01	7.97E+00	3.55E-01	1.75E-04	7.27E+01
170	6.71E-03	2.04E+01	7.56E+00	3.17E-01	1.71E-04	7.17E+01
180	8.50E-03	2.18E+01	7.18E+00	2.83E-01	1.78E-04	7.07E+01
190	1.06E-02	2.32E+01	6.82E+00	2.52E-01	1.94E-04	6.97E+01
200	1.30E-02	2.47E+01	6.49E+00	2.24E-01	2.20E-04	6.86E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.53E-02	2.62E+01	6.17E+00	2.00E-01	2.56E-04	6.74E+01
220	1.90E-02	2.78E+01	5.86E+00	1.78E-01	3.02E-04	6.61E+01
230	2.28E-02	2.95E+01	5.56E+00	1.56E-01	3.58E-04	6.48E+01
240	2.71E-02	3.12E+01	5.26E+00	1.41E-01	4.28E-04	6.33E+01
250	3.21E-02	3.31E+01	4.98E+00	1.26E-01	5.11E-04	6.18E+01
260	3.78E-02	3.49E+01	4.70E+00	1.11E-01	6.10E-04	6.02E+01
270	4.43E-02	3.69E+01	4.43E+00	9.88E-02	7.28E-04	5.85E+01
280	5.17E-02	3.89E+01	4.17E+00	8.75E-02	8.65E-04	5.68E+01
290	6.01E-02	4.10E+01	3.92E+00	7.73E-02	1.03E-03	5.50E+01
300	6.96E-02	4.31E+01	3.67E+00	6.83E-02	1.21E-03	5.31E+01
310	8.12E-02	4.46E+01	3.47E+00	6.08E-02	1.45E-03	5.18E+01
320	9.34E-02	4.69E+01	3.24E+00	5.35E-02	1.70E-03	4.97E+01
330	1.07E-01	4.91E+01	3.02E+00	4.69E-02	1.99E-03	4.77E+01
340	1.22E-01	5.14E+01	2.80E+00	4.12E-02	2.32E-03	4.57E+01
350	1.39E-01	5.36E+01	2.60E+00	3.60E-02	2.71E-03	4.36E+01
360	1.58E-01	5.58E+01	2.41E+00	3.15E-02	3.14E-03	4.16E+01
370	1.79E-01	5.79E+01	2.23E+00	2.75E-02	3.64E-03	3.96E+01
380	2.03E-01	6.01E+01	2.06E+00	2.39E-02	4.21E-03	3.77E+01
390	2.29E-01	6.21E+01	1.90E+00	2.08E-02	4.85E-03	3.57E+01
400	2.58E-01	6.41E+01	1.75E+00	1.81E-02	5.58E-03	3.38E+01
410	2.89E-01	6.61E+01	1.60E+00	1.57E-02	6.40E-03	3.20E+01
420	3.24E-01	6.80E+01	1.47E+00	1.36E-02	7.33E-03	3.02E+01
430	3.63E-01	6.98E+01	1.35E+00	1.18E-02	8.37E-03	2.85E+01
440	4.05E-01	7.15E+01	1.23E+00	1.02E-02	9.54E-03	2.68E+01
450	4.51E-01	7.32E+01	1.13E+00	8.80E-03	1.09E-02	2.52E+01
460	5.01E-01	7.48E+01	1.03E+00	7.59E-03	1.23E-02	2.37E+01
470	5.56E-01	7.63E+01	9.39E-01	6.54E-03	1.40E-02	2.22E+01
480	6.16E-01	7.77E+01	8.55E-01	5.63E-03	1.58E-02	2.08E+01
490	6.82E-01	7.91E+01	7.78E-01	4.85E-03	1.79E-02	1.94E+01
500	7.53E-01	8.03E+01	7.07E-01	4.17E-03	2.01E-02	1.82E+01
510	8.31E-01	8.15E+01	6.42E-01	3.58E-03	2.27E-02	1.70E+01
520	9.15E-01	8.26E+01	5.83E-01	3.07E-03	2.55E-02	1.58E+01
530	1.01E+00	8.37E+01	5.28E-01	2.64E-03	2.87E-02	1.48E+01
540	1.11E+00	8.46E+01	4.79E-01	2.26E-03	3.21E-02	1.37E+01
550	1.21E+00	8.55E+01	4.34E-01	1.94E-03	3.60E-02	1.28E+01
560	1.33E+00	8.63E+01	3.92E-01	1.66E-03	4.03E-02	1.19E+01
570	1.46E+00	8.71E+01	3.55E-01	1.42E-03	4.50E-02	1.11E+01
580	1.59E+00	8.78E+01	3.21E-01	1.22E-03	5.02E-02	1.03E+01
590	1.74E+00	8.84E+01	2.90E-01	1.04E-03	5.60E-02	9.53E+00
600	1.90E+00	8.89E+01	2.62E-01	8.91E-04	6.23E-02	8.84E+00
610	2.07E+00	8.94E+01	2.36E-01	7.63E-04	6.93E-02	8.20E+00
620	2.25E+00	8.99E+01	2.13E-01	6.52E-04	7.71E-02	7.60E+00
630	2.45E+00	9.02E+01	1.92E-01	5.57E-04	8.56E-02	7.04E+00
640	2.67E+00	9.05E+01	1.73E-01	4.77E-04	9.49E-02	6.52E+00
650	2.90E+00	9.08E+01	1.56E-01	4.07E-04	1.05E-01	6.04E+00
660	3.14E+00	9.10E+01	1.41E-01	3.48E-04	1.16E-01	5.59E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ /S, %	Ne/S, %
670	3.41E+00	9.12E+01	1.27E-01	2.97E-04	1.29E-01	5.17E+00
680	3.69E+00	9.13E+01	1.14E-01	2.54E-04	1.42E-01	4.78E+00
690	4.00E+00	9.13E+01	1.03E-01	2.17E-04	1.57E-01	4.42E+00
700	4.33E+00	9.13E+01	9.26E-02	1.85E-04	1.74E-01	4.09E+00
710	4.68E+00	9.13E+01	8.34E-02	1.58E-04	1.91E-01	3.78E+00
720	5.03E+00	9.12E+01	7.50E-02	1.35E-04	2.11E-01	3.49E+00
730	5.46E+00	9.10E+01	6.75E-02	1.15E-04	2.32E-01	3.22E+00
740	5.89E+00	9.03E-01	6.07E-02	9.86E-05	2.55E-01	2.97E+00
750	6.35E+00	9.06E-01	5.46E-02	8.41E-05	2.81E-01	2.74E+00
760	6.84E+00	9.03E+01	4.91E-02	7.18E-05	3.08E-01	2.53E+00
770	7.36E+00	8.99E+01	4.41E-02	6.13E-05	3.38E-01	2.33E+00
780	7.91E+00	8.95E+01	3.96E-02	5.23E-05	3.71E-01	2.15E+00
790	8.50E+00	8.91E+01	3.56E-02	4.46E-05	4.06E-01	1.98E+00
800	9.13E+00	8.86E+01	3.19E-02	3.81E-05	4.44E-01	1.82E+00

D-172; LAT-40; LON-45; LT-12; F-200; FAV-200; A₂-100; UT1-9

80	5.44E-04	1.36E-03	2.08E+01	8.89E-01	1.43E-05	7.83E+01
90	6.09E-04	3.52E-01	2.03E+01	8.44E-01	8.77E-05	7.85E+01
100	9.49E-04	3.98E+00	1.82E+01	7.01E-01	1.31E-04	7.71E+01
110	2.19E-03	1.17E+01	1.38E+01	4.65E-01	2.52E-04	7.40E+01
120	3.85E-03	1.83E+01	1.03E+01	3.76E-01	2.69E-04	7.11E+01
130	8.73E-03	2.39E+01	8.07E+00	2.40E-01	2.71E-04	6.78E+01
140	1.66E-02	2.83E+01	6.91E+00	1.79E-01	2.49E-04	6.46E+01
150	2.48E-02	3.24E+01	6.12E+00	1.37E-01	2.36E-04	6.13E+01
160	3.43E-02	3.65E+01	5.46E+00	1.07E-01	2.37E-04	5.79E+01
170	4.62E-02	4.05E+01	4.87E+00	8.41E-02	2.55E-04	5.45E+01
180	6.07E-02	4.45E+01	4.33E+00	6.69E-02	2.83E-04	5.10E+01
190	7.85E-02	4.85E+01	3.85E+00	5.35E-02	3.40E-04	4.75E+01
200	9.92E-02	5.22E+01	3.42E+00	4.31E-02	4.08E-04	4.42E+01
210	1.23E-01	5.58E+01	3.03E+00	3.49E-02	4.94E-04	4.10E+01
220	1.50E-01	5.91E+01	2.69E+00	2.84E-02	6.00E-04	3.80E+01
230	1.81E-01	6.22E+01	2.39E+00	2.32E-02	7.27E-04	3.52E+01
240	2.16E-01	6.51E+01	2.12E+00	1.90E-02	8.77E-04	3.25E+01
250	2.54E-01	6.78E+01	1.88E+00	1.56E-02	1.05E-03	3.00E+01
260	2.96E-01	7.03E+01	1.67E+00	1.28E-02	1.25E-03	2.77E+01
270	3.43E-01	7.26E+01	1.49E+00	1.06E-02	1.49E-03	2.55E+01
280	3.94E-01	7.47E+01	1.32E+00	8.77E-03	1.75E-03	2.35E+01
290	4.50E-01	7.67E+01	1.18E+00	7.27E-03	2.05E-03	2.17E+01
300	5.11E-01	7.85E+01	1.05E+00	6.03E-03	2.38E-03	2.00E+01
310	5.75E-01	8.02E+01	9.25E-01	4.98E-03	2.75E-03	1.83E+01
320	6.50E-01	8.17E+01	8.22E-01	4.14E-03	3.18E-03	1.68E+01
330	7.32E-01	8.31E+01	7.30E-01	3.43E-03	3.67E-03	1.54E+01
340	8.23E-01	8.44E+01	6.47E-01	2.85E-03	4.24E-03	1.42E+01
350	9.24E-01	8.55E+01	5.74E-01	2.36E-03	4.87E-03	1.30E+01
360	1.03E+00	8.66E+01	5.08E-01	1.95E-03	5.60E-03	1.19E+01
370	1.16E+00	8.75E+01	4.50E-01	1.62E-03	6.41E-03	1.09E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
380	1.29E+00	8.84E+01	3.98E-01	1.34E-03	7.34E-03	9.94E+00
390	1.44E+00	8.91E+01	3.51E-01	1.11E-03	8.38E-03	9.08E+00
400	1.60E+00	8.98E+01	3.10E-01	9.12E-04	9.59E-03	8.27E+00
410	1.78E+00	9.04E+01	2.73E-01	7.54E-04	1.09E-02	7.54E+00
420	1.98E+00	9.09E+01	2.41E-01	6.23E-04	1.24E-02	6.88E+00
430	2.19E+00	9.13E+01	2.13E-01	5.15E-04	1.41E-02	6.27E+00
440	2.43E+00	9.17E+01	1.87E-01	4.25E-04	1.60E-02	5.71E+00
450	2.68E+00	9.19E+01	1.65E-01	3.51E-04	1.81E-02	5.19E+00
460	2.96E+00	9.21E+01	1.45E-01	2.90E-04	2.05E-02	4.73E+00
470	3.27E+00	9.23E+01	1.28E-01	2.39E-04	2.31E-02	4.30E+00
480	3.60E+00	9.24E+01	1.13E-01	1.98E-04	2.61E-02	3.91E+00
490	3.96E+00	9.24E+01	9.92E-02	1.63E-04	2.95E-02	3.55E+00
500	4.36E+00	9.23E+01	8.73E-02	1.35E-04	3.32E-02	3.22E+00
510	4.78E+00	9.22E+01	7.68E-02	1.11E-04	3.73E-02	2.93E+00
520	5.25E+00	9.20E+01	6.76E-02	9.17E-05	4.20E-02	2.66E+00
530	5.76E+00	9.17E+01	5.93E-02	7.57E-05	4.71E-02	2.41E+00
540	6.30E+00	9.14E+01	5.21E-02	6.24E-05	5.28E-02	2.18E+00
550	6.90E+00	9.10E+01	4.58E-02	5.15E-05	5.92E-02	1.98E+00
560	7.54E+00	9.06E+01	4.02E-02	4.25E-05	6.62E-02	1.79E+00
570	8.23E+00	9.00E+01	3.53E-02	3.50E-05	7.40E-02	1.62E+00
580	8.98E+00	8.94E+01	3.09E-02	2.89E-05	8.26E-02	1.47E+00
590	9.78E+00	8.88E+01	2.71E-02	2.38E-05	9.21E-02	1.33E+00
600	1.06E+01	8.80E+01	2.38E-02	1.96E-05	1.03E-01	1.20E+00
610	1.16E+01	8.72E+01	2.08E-02	1.61E-05	1.14E-01	1.08E+00
620	1.26E+01	8.63E+01	1.82E-02	1.33E-05	1.27E-01	9.78E-01
630	1.36E+01	8.54E+01	1.59E-02	1.09E-05	1.41E-01	8.82E-01
640	1.47E+01	8.43E+01	1.39E-02	8.97E-06	1.56E-01	7.95E-01
650	1.59E+01	8.32E+01	1.22E-02	7.37E-06	1.72E-01	7.16E-01
660	1.72E+01	8.20E+01	1.06E-02	6.05E-06	1.90E-01	6.44E-01
670	1.85E+01	8.07E+01	9.25E-03	4.97E-06	2.10E-01	5.79E-01
680	1.99E+01	7.93E+01	8.05E-03	4.07E-06	2.31E-01	5.19E-01
690	2.14E+01	7.78E+01	7.01E-03	3.34E-06	2.54E-01	4.66E-01
700	2.30E+01	7.63E+01	6.09E-03	2.73E-06	2.79E-01	4.17E-01
710	2.46E+01	7.47E+01	5.29E-03	2.23E-06	3.05E-01	3.73E-01
720	2.63E+01	7.30E+01	4.59E-03	1.82E-06	3.34E-01	3.34E-01
730	2.81E+01	7.12E+01	3.97E-03	1.49E-06	3.64E-01	2.98E-01
740	2.99E+01	6.94E+01	3.44E-03	1.21E-06	3.96E-01	2.65E-01
750	3.18E+01	6.75E+01	2.97E-03	9.88E-07	4.31E-01	2.36E-01
760	3.38E+01	6.56E+01	2.56E-03	8.03E-07	4.68E-01	2.10E-01
770	3.58E+01	6.35E+01	2.21E-03	6.53E-07	5.06E-01	1.86E-01
780	3.78E+01	6.15E+01	1.90E-03	5.29E-07	5.47E-01	1.65E-01
790	3.99E+01	5.94E+01	1.63E-03	4.29E-07	5.90E-01	1.46E-01
800	4.20E+01	5.73E+01	1.40E-03	3.47E-07	6.34E-01	1.29E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-172; LAT -80; LON-45; LT-12; F-200; WΔV-200; A _p -100; UT1-9						
80	5.48E-04	9.88E-04	2.09E+01	9.53E-01	1.37E-05	7.82E+01
90	6.01E-04	2.44E-01	2.07E+01	9.46E-01	8.18E-05	7.82E+01
100	9.45E-04	2.67E+00	1.93E+01	8.39E-01	1.25E-04	7.71E+01
110	2.23E-03	7.29E+00	1.69E+01	6.49E-01	2.36E-04	7.51E+01
120	4.10E-03	1.14E+01	1.48E+01	5.18E-01	2.97E-04	7.33E+01
130	5.07E-03	1.43E+01	1.33E+01	4.35E-01	2.93E-04	7.19E+01
140	6.25E-03	1.55E+01	1.23E+01	3.75E-01	2.63E-04	7.08E+01
150	8.59E-03	1.85E+01	1.15E+01	3.27E-01	2.38E-04	6.97E+01
160	1.17E-02	2.02E+01	1.08E+01	2.87E-01	2.25E-04	6.86E+01
170	1.54E-02	2.19E+01	1.02E+01	2.53E-01	2.27E-04	6.76E+01
180	1.97E-02	2.36E+01	9.66E+00	2.23E-01	2.42E-04	6.65E+01
190	2.48E-02	2.53E+01	9.14E+00	1.97E-01	2.69E-04	6.53E+01
200	3.07E-02	2.70E+01	8.66E+00	1.74E-01	3.09E-04	6.41E+01
210	3.75E-02	2.87E+01	8.21E+00	1.54E-01	3.62E-04	6.29E+01
220	4.54E-02	3.05E+01	7.77E+00	1.37E-01	4.29E-04	6.15E+01
230	5.45E-02	3.23E+01	7.35E+00	1.21E-01	5.11E-04	6.01E+01
240	6.48E-02	3.42E+01	6.95E+00	1.08E-01	6.10E-04	5.87E+01
250	7.65E-02	3.61E+01	6.56E+00	9.59E-02	7.28E-04	5.71E+01
260	8.97E-02	3.81E+01	6.19E+00	8.51E-02	8.66E-04	5.55E+01
270	1.05E-01	4.01E+01	5.83E+00	7.55E-02	1.03E-03	5.39E+01
280	1.22E-01	4.21E+01	5.48E+00	6.69E-02	1.22E-03	5.22E+01
290	1.40E-01	4.42E+01	5.15E+00	5.93E-02	1.43E-03	5.05E+01
300	1.61E-01	4.62E+01	4.83E+00	5.25E-02	1.68E-03	4.87E+01
310	1.87E-01	4.78E+01	4.57E+00	4.69E-02	1.98E-03	4.74E+01
320	2.13E-01	5.00E+01	4.26E+00	4.14E-02	2.31E-03	4.55E+01
330	2.42E-01	5.21E+01	3.98E+00	3.65E-02	2.67E-03	4.36E+01
340	2.74E-01	5.42E+01	3.70E+00	3.22E-02	3.09E-03	4.18E+01
350	3.10E-01	5.63E+01	3.44E+00	2.83E-02	3.57E-03	3.99E+01
360	3.49E-01	5.83E+01	3.20E+00	2.49E-02	4.10E-03	3.81E+01
370	3.92E-01	6.03E+01	2.96E+00	2.18E-02	4.70E-03	3.63E+01
380	4.39E-01	6.22E+01	2.74E+00	1.92E-02	5.38E-03	3.46E+01
390	4.91E-01	6.41E+01	2.54E+00	1.68E-02	6.13E-03	3.28E+01
400	5.47E-01	6.59E+01	2.35E+00	1.47E-02	6.98E-03	3.12E+01
410	6.09E-01	6.77E+01	2.16E+00	1.29E-02	7.92E-03	2.95E+01
420	6.76E-01	6.94E+01	1.99E+00	1.12E-02	8.97E-03	2.79E+01
430	7.50E-01	7.10E+01	1.84E+00	9.81E-03	1.01E-02	2.64E+01
440	8.29E-01	7.25E+01	1.69E+00	8.56E-03	1.14E-02	2.49E+01
450	9.16E-01	7.40E+01	1.55E+00	7.46E-03	1.29E-02	2.35E+01
460	1.01E+00	7.54E+01	1.42E+00	6.50E-03	1.45E-02	2.21E+01
470	1.11E+00	7.67E+01	1.30E+00	5.65E-03	1.63E-02	2.08E+01
480	1.22E+00	7.80E+01	1.19E+00	4.92E-03	1.82E-02	1.96E+01
490	1.34E+00	7.91E+01	1.09E+00	4.27E-03	2.04E-02	1.84E+01
500	1.47E+00	8.02E+01	1.00E+00	3.71E-03	2.28E-02	1.73E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	1.61E+00	8.13E+01	9.13E-01	3.22E-03	2.54E-02	1.62E+01
520	1.75E+00	8.22E+01	8.34E-01	2.79E-03	2.83E-02	1.52E+01
530	1.92E+00	8.31E+01	7.61E-01	2.42E-03	3.15E-02	1.42E+01
540	2.09E+00	8.39E+01	6.94E-01	2.10E-03	3.50E-02	1.33E+01
550	2.27E+00	8.46E+01	6.32E-01	1.82E-03	3.88E-02	1.24E+01
560	2.47E+00	8.53E+01	5.76E-01	1.57E-03	4.30E-02	1.16E+01
570	2.69E+00	8.59E+01	5.24E-01	1.36E-02	4.77E-02	1.08E+01
580	2.91E+00	8.65E+01	4.77E-01	1.18E-03	5.27E-02	1.01E+01
590	3.16E+00	8.69E+01	4.34E-01	1.02E-03	5.82E-02	9.42E+00
600	3.42E+00	8.73E+01	3.94E-01	8.28E-04	6.42E-02	8.78E+00
610	3.70E+00	8.77E+01	3.58E-01	7.62E-04	7.08E-02	8.18E+00
620	4.00E+00	8.80E+01	3.26E-01	6.59E-04	7.80E-02	7.62E+00
630	4.32E+00	8.82E+01	2.96E-01	5.69E-04	8.58E-02	7.09E+00
640	4.66E+00	8.84E+01	2.68E-01	4.92E-04	9.44E-02	6.60E+00
650	5.03E+00	8.85E+01	2.43E-01	4.24E-04	1.04E-01	6.13E+00
660	5.42E+00	8.85E+01	2.21E-01	3.67E-04	1.14E-01	5.70E+00
670	5.83E+00	8.85E+01	2.00E-01	3.16E-04	1.25E-01	5.30E+00
680	6.27E+00	8.85E+01	1.81E-01	2.73E-04	1.37E-01	4.92E+00
690	6.74E+00	8.84E+01	1.64E-01	2.36E-04	1.49E-01	4.57E+00
700	7.23E+00	8.82E+01	1.49E-01	2.03E-04	1.63E-01	4.24E+00
710	7.76E+00	8.80E+01	1.35E-01	1.75E-04	1.78E-01	3.93E+00
720	8.32E+00	8.77E+01	1.22E-01	1.51E-04	1.95E-01	3.64E+00
730	8.91E+00	8.74E+01	1.10E-01	1.30E-04	2.12E-01	3.38E+00
740	9.53E+00	8.70E+01	9.98E-02	1.12E-04	2.31E-01	3.13E+00
750	1.02E+01	8.66E+01	9.02E-02	9.68E-05	2.52E-01	2.90E+00
760	1.09E+01	8.61E+01	8.15E-02	8.34E-05	2.74E-01	2.68E+00
770	1.16E+01	8.55E+01	7.37E-02	7.19E-05	2.98E-01	2.48E+00
780	1.24E+01	8.49E+01	6.65E-02	6.19E-05	3.23E-01	2.29E+00
790	1.32E+01	8.43E+01	6.00E-02	5.33E-05	3.50E-01	2.12E+00
800	1.40E+01	8.35E+01	5.42E-02	4.58E-05	3.80E-01	1.96E+00

Таблица 22

Широтные вариации состава при низкой солнечной активности
для осеннего равноденствия в северном и весеннего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-266; LAT-0; LON-45; LT-12; F-70; FAV-70; A _p -100; UT1-9						
80	5.53E-04	1.24E-03	2.08E+01	9.07E-01	1.79E-06	7.83E+01
90	6.13E-04	3.15E-01	2.03E+01	8.73E-01	1.19E-04	7.85E+01
100	9.53E-04	3.51E+00	1.83E+01	7.47E-01	1.95E-04	7.75E+01
110	2.52E-03	1.07E+01	1.38E+01	4.94E-01	4.93E-01	7.50E+01
120	7.56E-03	1.92E+01	9.59E+00	3.05E-01	1.08E-03	7.09E+01
130	1.68E-02	2.60E+01	7.27E+00	2.09E-01	1.44E-03	6.66E+01
140	3.05E-02	3.15E+01	6.00E+00	1.49E-01	1.66E-03	6.23E+01

Продолжение табл. 22

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
150	4.67E-02	3.66E+01	5.15E+00	1.10E-01	1.85E-03	5.81E+01
160	6.66E-02	4.13E+01	4.47E+00	8.27E-02	2.09E-03	5.41E+01
170	9.12E-02	4.59E+01	3.89E+00	6.30E-02	2.42E-03	5.01E+01
180	1.22E-01	5.03E+01	3.37E+00	4.84E-02	2.90E-03	4.61E+01
190	1.59E-01	5.46E+01	2.92E+00	3.72E-02	3.55E-03	4.23E+01
200	2.04E-01	5.87E+01	2.52E+00	2.87E-02	4.41E-03	3.85E+01
210	2.58E-01	6.25E+01	2.16E+00	2.20E-02	5.54E-03	3.49E+01
220	3.22E-01	6.63E+01	1.85E+00	1.69E-02	6.98E-03	3.15E+01
230	3.99E-01	6.97E+01	1.58E+00	1.30E-02	8.81E-03	2.83E+01
240	4.90E-01	7.28E+01	1.34E+00	9.89E-03	1.11E-02	2.53E+01
250	5.97E-01	7.57E+01	1.13E+00	7.53E-03	1.39E-02	2.25E+01
260	7.23E-01	7.83E+01	9.50E-01	5.71E-03	1.74E-02	2.00E+01
270	8.71E-01	8.07E+01	7.97E-01	4.33E-03	2.17E-02	1.76E+01
280	1.04E+00	8.27E+01	6.67E-01	3.27E-03	2.70E-02	1.55E+01
290	1.24E+00	8.45E+01	5.56E-01	2.46E-03	3.33E-02	1.36E+01
300	1.47E+00	8.61E+01	4.62E-01	1.85E-03	4.10E-02	1.19E+01
310	1.75E+00	8.74E+01	3.84E-01	1.39E-03	5.04E-02	1.04E+01
320	2.06E+00	8.85E+01	3.18E-01	1.04E-03	6.16E-02	9.07E+00
330	2.41E+00	8.94E+01	2.63E-01	7.77E-04	7.51E-02	7.88E+00
340	2.83E+00	9.00E+01	2.17E-01	5.80E-04	9.12E-02	6.83E+00
350	3.30E+00	9.05E+01	1.79E-01	4.32E-04	1.11E-01	5.92E+00
360	3.84E+00	9.08E+01	1.47E-01	3.22E-04	1.34E-01	5.11E+00
370	4.46E+00	9.08E+01	1.21E-01	2.39E-04	1.61E-01	4.41E+00
380	5.16E+00	9.07E+01	9.89E-02	1.78E-04	1.93E-01	3.80E+00
390	5.97E+00	9.05E+01	8.10E-02	1.32E-04	2.32E-01	3.27E+00
400	6.87E+00	9.00E+01	6.62E-02	9.79E-05	2.77E-01	2.81E+00
410	7.90E+00	8.93E+01	5.40E-02	7.24E-05	3.31E-01	2.41E+00
420	9.06E+00	8.84E+01	4.40E-02	5.36E-05	3.98E-01	2.06E+00
430	1.04E+01	8.74E+01	3.58E-02	3.95E-05	4.66E-01	1.76E+00
440	1.18E+01	8.61E+01	2.91E-02	2.91E-05	5.51E-01	1.50E+00
450	1.34E+01	8.45E+01	2.36E-02	2.14E-05	6.49E-01	1.27E+00
460	1.52E+01	8.30E+01	1.91E-02	1.57E-05	7.62E-01	1.08E+00
470	1.71E+01	8.10E+01	1.54E-02	1.15E-05	8.91E-01	9.14E-01
480	1.93E+01	7.89E+01	1.24E-02	8.42E-06	1.04E+00	7.71E-01
490	2.16E+01	7.66E+01	9.90E-03	6.13E-06	1.21E+00	6.48E-01
500	2.40E+01	7.40E+01	7.91E-03	4.46E-06	1.39E+00	5.43E-01
510	2.67E+01	7.13E+01	6.30E-03	3.23E-06	1.60E+00	4.53E-01
520	2.96E+01	6.83E+01	5.00E-03	2.33E-06	1.83E+00	3.77E-01
530	3.24E+01	6.52E+01	3.95E-03	1.67E-06	2.09E+00	3.12E-01
540	3.55E+01	6.19E+01	3.11E-03	1.20E-06	2.37E+00	2.58E-01
550	3.85E+01	5.85E+01	2.43E-03	8.55E-07	2.67E+00	2.12E-01
560	4.18E+01	5.51E+01	1.90E-03	6.08E-07	2.99E+00	1.73E-01
570	4.50E+01	5.16E+01	1.48E-03	4.30E-07	3.33E+00	1.41E-01
580	4.82E+01	4.80E+01	1.14E-03	3.03E-07	3.70E+00	1.14E-01
590	5.13E+01	4.45E+01	8.79E-04	2.13E-07	4.08E+00	9.20E-02
600	5.44E+01	4.11E+01	6.74E-04	1.49E-07	4.48E+00	7.39E-02

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	5.73E+01	3.77E+01	5.15E-04	1.04E-07	4.89E+00	5.19E-02
620	6.02E+01	3.45E+01	3.91E-04	7.19E-08	5.31E+00	4.71E-02
630	6.28E+01	3.14E+01	2.97E-04	4.97E-08	5.74E+00	3.73E-02
640	6.53E+01	2.84E+01	2.24E-04	3.42E-08	6.17E+00	2.95E-02
650	6.77E+01	2.57E+01	1.69E-04	2.35E-08	6.61E+00	2.32E-02
660	6.98E+01	2.31E+01	1.23E-04	1.61E-08	7.06E+00	1.83E-02
670	7.17E+01	2.07E+01	9.46E-05	1.10E-08	7.51E+00	1.43E-02
680	7.35E+01	1.86E+01	7.07E-05	7.51E-09	7.95E+00	1.12E-02
690	7.50E+01	1.66E+01	5.26E-05	5.11E-09	8.40E+00	8.70E-03
700	7.64E+01	1.47E+01	3.91E-05	3.48E-09	8.85E+00	6.77E-03
710	7.76E+01	1.31E+01	2.90E-05	2.36E-09	9.29E+00	5.25E-03
720	7.87E+01	1.16E+01	2.15E-05	1.60E-09	9.74E+00	4.07E-03
730	7.96E+01	1.03E+01	1.59E-05	1.08E-09	1.02E+01	3.15E-03
740	8.03E+01	9.05E+00	1.18E-05	7.33E-10	1.06E+01	2.44E-03
750	8.09E+01	8.00E+00	8.71E-06	4.96E-10	1.11E+01	1.88E-03
760	8.14E+01	7.05E+00	6.44E-06	3.35E-10	1.15E+01	1.45E-03
770	8.18E+01	6.20E+00	4.75E-06	2.26E-10	1.20E+01	1.12E-03
780	8.21E+01	5.43E+00	3.51E-06	1.53E-10	1.24E+01	8.64E-04
790	8.23E+01	4.80E+00	2.59E-06	1.03E-10	1.29E+01	6.66E-04
800	8.25E+01	4.22E+00	1.91E-06	6.99E-11	1.33E+01	5.14E-04

D-265; LAT-40; LON-45; LT-12; F-70; VAV-70; A_p-100; UTI-9

80	5.40E-04	1.21E-03	2.08E+01	8.69E-01	1.67E-05	7.83E+01
90	6.04E-04	3.03E-01	2.04E+01	8.09E-01	1.14E-04	7.85E+01
100	9.52E-04	3.46E+00	1.84E+01	6.55E-01	1.94E-04	7.75E+01
110	2.30E-03	9.95E+00	1.45E+01	4.32E-01	4.36E-04	7.51E+01
120	5.50E-03	1.68E+01	1.07E+01	2.73E-01	7.53E-04	7.21E+01
130	1.12E-02	2.25E+01	8.50E+00	1.80E-01	9.61E-04	6.89E+01
140	1.93E-02	2.72E+01	7.20E+00	1.24E-01	1.08E-03	6.54E+01
150	2.92E-02	3.17E+01	6.29E+00	8.88E-02	1.19E-03	6.19E+01
160	4.18E-02	3.60E+01	5.55E+00	6.59E-02	1.33E-03	5.84E+01
170	5.74E-02	4.02E+01	4.91E+00	5.00E-02	1.51E-03	5.48E+01
180	7.70E-02	4.44E+01	4.32E+00	3.85E-02	1.84E-03	5.12E+01
190	1.01E-01	4.85E+01	3.80E+00	2.99E-02	2.26E-03	4.75E+01
200	1.31E-01	5.26E+01	3.32E+00	2.33E-02	2.82E-03	4.39E+01
210	1.66E-01	5.66E+01	2.90E+00	1.82E-02	3.56E-03	4.03E+01
220	2.10E-01	6.04E+01	2.51E+00	1.42E-02	4.51E-03	3.69E+01
230	2.61E-01	6.40E+01	2.17E+00	1.10E-02	5.72E-03	3.35E+01
240	3.23E-01	6.75E+01	1.86E+00	8.51E-03	7.25E-03	3.03E+01
250	3.96E-01	7.07E+01	1.59E+00	6.57E-03	9.15E-03	2.73E+01
260	4.83E-01	7.37E+01	1.36E+00	5.05E-03	1.15E-02	2.45E+01
270	5.84E-01	7.64E+01	1.15E+00	3.87E-03	1.44E-02	2.18E+01
280	7.02E-01	7.89E+01	9.72E-01	2.96E-03	1.79E-02	1.94E+01
290	8.41E-01	8.11E+01	8.19E-01	2.26E-03	2.23E-02	1.72E+01
300	1.00E+00	8.31E+01	6.87E-01	1.71E-03	2.75E-02	1.52E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
310	1.19E+00	8.48E+01	5.77E-01	1.30E-03	3.39E-02	1.34E+01
320	1.41E+00	8.63E+01	4.82E-01	9.86E-04	4.15E-02	1.17E+01
330	1.66E+00	8.76E+01	4.02E-01	7.45E-04	5.07E-02	1.03E+01
340	1.94E+00	8.87E+01	3.34E-01	5.61E-04	6.17E-02	8.98E+00
350	2.27E+00	8.95E+01	2.77E-01	4.22E-04	7.49E-02	7.83E+00
360	2.65E+00	9.02E+01	2.30E-01	3.17E-04	9.05E-02	6.81E+00
370	3.08E+00	9.07E+01	1.90E-01	2.38E-04	1.09E-01	5.92E+00
380	3.58E+00	9.10E+01	1.57E-01	1.79E-04	1.32E-01	5.13E+00
390	4.11E+00	9.11E+01	1.30E-01	1.34E-04	1.58E-01	4.45E+00
400	4.79E+00	9.11E+01	1.07E-01	1.00E-04	1.89E-01	3.85E+00
410	5.51E+00	9.09E+01	8.80E-02	7.49E-05	2.26E-01	3.32E+00
420	6.34E+00	9.05E+01	7.23E-02	5.59E-05	2.69E-01	2.86E+00
430	7.27E+00	8.99E+01	5.93E-02	4.17E-05	3.20E-01	2.47E+00
440	8.32E+00	8.91E+01	4.86E-02	3.11E-05	3.80E-01	2.12E+00
450	9.49E+00	8.82E+01	3.98E-02	2.31E-05	4.49E-01	1.82E+00
460	1.08E+01	8.71E+01	3.25E-02	1.72E-05	5.29E-01	1.56E+00
470	1.23E+01	8.58E+01	2.65E-02	1.28E-05	6.22E-01	1.33E+00
480	1.39E+01	8.42E+01	2.16E-02	9.45E-06	7.29E-01	1.14E+00
490	1.56E+01	8.25E+01	1.75E-02	6.98E-06	8.52E-01	9.66E-01
500	1.76E+01	8.06E+01	1.42E-02	5.15E-06	9.92E-01	8.20E-01
510	1.97E+01	7.85E+01	1.15E-02	3.79E-06	1.15E+00	6.94E-01
520	2.20E+01	7.61E+01	9.22E-03	2.78E-06	1.33E+00	5.85E-01
530	2.44E+01	7.36E+01	7.41E-03	2.03E-06	1.53E+00	4.92E-01
540	2.70E+01	7.08E+01	5.93E-03	1.48E-06	1.75E+00	4.13E-01
550	2.97E+01	6.79E+01	4.72E-03	1.08E-06	2.00E+00	3.45E-01
560	3.26E+01	6.49E+01	3.75E-03	7.82E-07	2.26E+00	2.87E-01
570	3.55E+01	6.17E+01	2.97E-03	5.64E-07	2.56E+00	2.37E-01
580	3.86E+01	5.84E+01	2.34E-03	4.06E-07	2.87E+00	1.96E-01
590	4.17E+01	5.50E+01	1.84E-03	2.91E-07	3.21E+00	1.61E-01
600	4.48E+01	5.15E+01	1.44E-03	2.07E-07	3.57E+00	1.32E-01
610	4.79E+01	4.81E+01	1.12E-03	1.47E-07	3.95E+00	1.07E-01
620	5.09E+01	4.47E+01	8.66E-04	1.04E-07	4.34E+00	8.69E-02
630	5.39E+01	4.13E+01	6.69E-04	7.37E-08	4.75E+00	7.02E-02
640	5.68E+01	3.80E+01	5.14E-04	5.18E-08	5.18E+00	5.65E-02
650	5.95E+01	3.48E+01	3.94E-04	3.63E-08	5.62E+00	4.52E-02
660	6.21E+01	3.18E+01	3.01E-04	2.53E-08	6.06E+00	3.61E-02
670	6.45E+01	2.89E+01	2.29E-04	1.76E-08	6.51E+00	2.87E-02
680	6.68E+01	2.62E+01	1.73E-04	1.22E-08	6.97E+00	2.28E-02
690	6.89E+01	2.36E+01	1.31E-04	8.46E-09	7.43E+00	1.80E-02
700	7.08E+01	2.13E+01	9.89E-05	5.84E-09	7.90E+00	1.42E-02
710	7.25E+01	1.91E+01	7.44E-05	4.02E-09	8.38E+00	1.12E-02
720	7.41E+01	1.71E+01	5.59E-05	2.77E-09	8.82E+00	8.75E-03
730	7.54E+01	1.53E+01	4.19E-05	1.90E-09	9.29E+00	6.85E-03
740	7.66E+01	1.36E+01	3.13E-05	1.30E-09	9.75E+00	5.36E-03
750	7.77E+01	1.21E+01	2.34E-05	8.92E-10	1.02E+01	4.18E-03
760	7.86E+01	1.07E+01	1.75E-05	6.10E-10	1.07E+01	3.26E-03

$x, \text{км}$	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
770	7.93E+01	9.53E+00	1.30E-05	4.17E-10	1.11E+01	2.54E-03
780	8.00E+01	8.43E+00	9.71E-06	2.85E-10	1.16E+01	1.97E-03
790	8.05E+01	7.46E+00	7.23E-06	1.95E-10	1.20E+01	1.53E-03
800	8.09E+01	6.59E+00	5.38E-06	1.33E-10	1.25E+01	1.19E-03

D-266; LAT-80; LON-45; LT-12; F-70; V_{ΔV}-70; A_p-100; UT1-9

80	5.35E-04	9.70E-04	2.09E+01	9.65E-01	1.61E-05	7.81E+01
90	5.90E-04	2.40E-01	2.07E+01	9.61E-01	1.07E-04	7.81E+01
100	9.46E-04	2.65E+00	1.93E+01	8.53E-01	1.93E-04	7.72E+01
110	2.04E-03	7.02E+00	1.71E+01	6.83E-01	3.73E-04	7.52E+01
120	3.71E-03	1.09E+01	1.51E+01	5.62E-01	5.17E-04	7.34E+01
130	5.48E-03	1.38E+01	1.36E+01	4.73E-01	6.11E-04	7.20E+01
140	7.76E-03	1.63E+01	1.25E+01	4.04E-01	6.61E-04	7.08E+01
150	1.13E-02	1.86E+01	1.16E+01	3.47E-01	7.03E-04	6.95E+01
160	1.60E-02	2.09E+01	1.07E+01	2.96E-01	7.82E-04	6.81E+01
170	2.21E-02	2.32E+01	9.94E+00	2.52E-01	8.99E-04	6.66E+01
180	2.99E-02	2.56E+01	9.21E+00	2.13E-01	1.07E-03	6.50E+01
190	3.97E-02	2.81E+01	8.51E+00	1.79E-01	1.32E-03	6.32E+01
200	5.20E-02	3.07E+01	7.86E+00	1.51E-01	1.67E-03	6.12E+01
210	6.72E-02	3.35E+01	7.23E+00	1.26E-01	2.13E-03	5.91E+01
220	8.62E-02	3.64E+01	6.63E+00	1.06E-01	2.73E-03	5.68E+01
230	1.10E-01	3.94E+01	6.06E+00	8.79E-02	3.51E-03	5.43E+01
240	1.38E-01	4.25E+01	5.51E+00	7.30E-02	4.51E-03	5.18E+01
250	1.73E-01	4.57E+01	4.99E+00	6.04E-02	5.78E-03	4.91E+01
260	2.14E-01	4.89E+01	4.50E+00	4.98E-02	7.38E-03	4.63E+01
270	2.64E-01	5.21E+01	4.04E+00	4.08E-02	9.37E-03	4.35E+01
280	3.24E-01	5.53E+01	3.61E+00	3.34E-02	1.18E-02	4.07E+01
290	3.94E-01	5.85E+01	3.22E+00	2.72E-02	1.49E-02	3.79E+01
300	4.77E-01	6.16E+01	2.85E+00	2.20E-02	1.86E-02	3.51E+01
310	5.81E-01	6.41E+01	2.55E+00	1.80E-02	2.34E-02	3.28E+01
320	6.94E-01	6.70E+01	2.23E+00	1.45E-02	2.89E-02	3.00E+01
330	8.24E-01	6.98E+01	1.95E+00	1.16E-02	3.54E-02	2.74E+01
340	9.75E-01	7.23E+01	1.70E+00	9.23E-03	4.33E-02	2.49E+01
350	1.15E+00	7.47E+01	1.47E+00	7.34E-03	5.27E-02	2.26E+01
360	1.35E+00	7.69E+01	1.27E+00	5.82E-03	6.38E-02	2.04E+01
370	1.57E+00	7.89E+01	1.10E+00	4.60E-03	7.70E-02	1.84E+01
380	1.83E+00	8.06E+01	9.45E-01	3.63E-03	9.25E-02	1.65E+01
390	2.12E+00	8.22E+01	8.11E-01	2.86E-03	1.11E-01	1.48E+01
400	2.45E+00	8.35E+01	6.94E-01	2.25E-03	1.32E-01	1.32E+01
410	2.83E+00	8.46E+01	5.93E-01	1.76E-03	1.57E-01	1.18E+01
420	3.25E+00	8.56E+01	5.06E-01	1.38E-03	1.87E-01	1.05E+01
430	3.72E+00	8.63E+01	4.30E-01	1.08E-03	2.21E-01	9.30E+00
440	4.25E+00	8.69E+01	3.66E-01	8.41E-04	2.61E-01	8.25E+00
450	4.85E+00	8.72E+01	3.10E-01	6.55E-04	3.07E-01	7.29E+00

Продолжение табл. 22

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
460	3.52E+00	8.74E+01	2.62E-01	5.10E-04	3.60E-01	6.44E+00
470	6.26E+00	8.74E+01	2.22E-01	3.96E-04	4.22E-01	5.68E+00
480	7.08E+00	8.72E+01	1.87E-01	3.08E-04	4.92E-01	5.00E+00
490	7.99E+00	8.63E+01	1.58E-01	2.38E-04	5.74E-01	4.39E+00
500	9.00E+00	8.63E+01	1.33E-01	1.85E-04	6.66E-01	3.85E+00
510	1.01E+01	8.56E+01	1.11E-01	1.43E-04	7.72E-01	3.37E+00
520	1.13E+01	8.47E+01	9.35E-02	1.10E-04	8.92E-01	2.95E+00
530	1.27E+01	8.37E+01	7.82E-02	8.49E-05	1.03E+00	2.57E+00
540	1.41E+01	8.24E+01	6.54E-02	6.53E-05	1.18E+00	2.24E+00
550	1.57E+01	8.10E+01	5.45E-02	5.01E-05	1.36E+00	1.94E+00
560	1.74E+01	7.94E+01	4.53E-02	3.84E-05	1.55E+00	1.69E+00
570	1.92E+01	7.76E+01	3.76E-02	2.94E-05	1.76E+00	1.46E+00
580	2.11E+01	7.53E+01	3.12E-02	2.25E-05	2.00E+00	1.26E+00
590	2.32E+01	7.34E+01	2.58E-02	1.71E-05	2.26E+00	1.03E+00
600	2.54E+01	7.11E+01	2.12E-02	1.30E-05	2.55E+00	9.28E-01
610	2.73E+01	6.87E+01	1.74E-02	9.85E-06	2.87E+00	7.94E-01
620	3.00E+01	6.61E+01	1.43E-02	7.45E-06	3.21E+00	6.77E-01
630	3.25E+01	6.34E+01	1.17E-02	5.61E-06	3.58E+00	5.75E-01
640	3.50E+01	6.06E+01	9.50E-03	4.22E-06	3.97E+00	4.88E-01
650	3.75E+01	5.77E+01	7.71E-03	3.16E-06	4.39E+00	4.12E-01
660	4.01E+01	5.47E+01	6.24E-03	2.36E-06	4.84E+00	3.47E-01
670	4.27E+01	5.17E+01	5.03E-03	1.76E-06	5.30E+00	2.91E-01
680	4.53E+01	4.87E+01	4.05E-03	1.31E-06	5.79E+00	2.43E-01
690	4.78E+01	4.57E+01	3.24E-03	9.69E-07	6.30E+00	2.03E-01
700	5.03E+01	4.27E+01	2.59E-03	7.15E-07	6.83E+00	1.69E-01
710	5.27E+01	3.98E+01	2.06E-03	5.27E-07	7.37E+00	1.40E-01
720	5.50E+01	3.69E+01	1.64E-03	3.87E-07	7.92E+00	1.15E-01
730	5.72E+01	3.42E+01	1.30E-03	2.83E-07	8.48E+00	9.49E-02
740	5.93E+01	3.15E+01	1.02E-03	2.07E-07	9.05E+00	7.79E-02
750	6.13E+01	2.90E+01	8.07E-04	1.51E-07	9.63E+00	6.35E-02
760	6.31E+01	2.66E+01	6.34E-04	1.10E-07	1.02E+01	5.21E-02
770	6.48E+01	2.43E+01	4.97E-04	7.96E-08	1.08E+01	4.25E-02
780	6.64E+01	2.22E+01	3.89E-04	5.77E-08	1.14E+01	3.45E-02
790	6.78E+01	2.02E+01	3.04E-04	4.17E-08	1.20E+01	2.80E-02
800	6.91E+01	1.84E+01	2.37E-04	3.01E-08	1.25E+01	2.27E-02

D-266; LAT-40; LON-45; LT-12; F-70; FAV-70; A_p-100; UTI-9

80	5.42E-04	1.19E-03	2.09E+01	9.59E-01	1.69E-05	7.82E+01
90	6.06E-04	3.03E-01	2.05E+01	9.54E-01	1.15E-04	7.82E+01
100	9.45E-04	3.37E+00	1.88E+01	8.52E-01	1.93E-04	7.69E+01
110	2.33E-03	9.75E+00	1.54E+01	6.32E-01	4.46E-04	7.42E+01
120	5.54E-03	1.65E+01	1.21E+01	4.61E-01	7.96E-04	7.09E+01
130	1.02E-02	2.20E+01	9.98E+00	3.57E-01	1.02E-03	6.76E+01
140	1.64E-02	2.67E+01	8.62E+00	2.85E-01	1.16E-03	6.44E+01
150	2.46E-02	3.10E+01	7.60E+00	2.29E-01	1.27E-03	6.11E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ S, %	N ₂ /S, %
160	3.50E-02	3.52E+01	6.75E+00	1.85E-01	1.42E-03	5.78E+01
170	4.80E-02	3.93E+01	6.01E+00	1.49E-01	1.64E-03	5.45E+01
180	6.40E-02	4.33E+01	5.34E+00	1.20E-01	1.95E-03	5.12E+01
190	8.36E-02	4.72E+01	4.73E+00	9.58E-02	2.38E-03	4.79E+01
200	1.07E-01	5.11E+01	4.18E+00	7.66E-02	2.95E-03	4.46E+01
210	1.36E-01	5.48E+01	3.68E+00	6.11E-02	3.69E-03	4.13E+01
220	1.70E-01	5.85E+01	3.23E+00	4.86E-02	4.63E-03	3.81E+01
230	2.10E-01	6.20E+01	2.82E+00	3.85E-02	5.82E-03	3.49E+01
240	2.57E-01	6.53E+01	2.46E+00	3.05E-02	7.29E-03	3.19E+01
250	3.13E-01	6.85E+01	2.13E+00	2.40E-02	9.10E-03	2.91E+01
260	3.78E-01	7.14E+01	1.84E+00	1.89E-02	1.13E-02	2.64E+01
270	4.53E-01	7.41E+01	1.59E+00	1.48E-02	1.40E-02	2.38E+01
280	5.41E-01	7.67E+01	1.36E+00	1.16E-02	1.73E-02	2.14E+01
290	6.42E-01	7.90E+01	1.17E+00	9.04E-03	2.12E-02	1.92E+01
300	7.58E-01	8.10E+01	9.98E-01	7.04E-03	2.59E-02	1.72E+01
310	8.95E-01	8.28E+01	8.53E-01	5.49E-03	3.16E-02	1.54E+01
320	1.05E+00	8.45E+01	7.24E-01	4.25E-03	3.83E-02	1.37E+01
330	1.22E+00	8.60E+01	6.14E-01	3.29E-03	4.62E-02	1.21E+01
340	1.42E+00	8.73E+01	5.19E-01	2.54E-03	5.56E-02	1.07E+01
350	1.65E+00	8.84E+01	4.39E-01	1.96E-03	6.68E-02	9.49E+00
360	1.91E+00	8.93E+01	3.70E-01	1.51E-03	7.99E-02	8.37E+00
370	2.21E+00	9.00E+01	3.12E-01	1.16E-03	9.54E-02	7.38E+00
380	2.54E+00	9.06E+01	2.62E-01	8.94E-04	1.14E-01	6.49E+00
390	2.92E+00	9.10E+01	2.20E-01	6.87E-04	1.35E-01	5.70E+00
400	3.35E+00	9.13E+01	1.85E-01	5.27E-04	1.60E-01	5.00E+00
410	3.83E+00	9.14E+01	1.55E-01	4.04E-04	1.89E-01	4.39E+00
420	4.38E+00	9.14E+01	1.30E-01	3.10E-04	2.24E-01	3.84E+00
430	4.99E+00	9.13E+01	1.09E-01	2.38E-04	2.64E-01	3.36E+00
440	5.67E+00	9.10E+01	9.08E-02	1.82E-04	3.10E-01	2.93E+00
450	6.44E+00	9.06E+01	7.58E-02	1.39E-04	3.64E-01	2.56E+00
460	7.30E+00	9.00E+01	6.32E-02	1.06E-04	4.26E-01	2.23E+00
470	8.25E+00	8.93E+01	5.27E-02	8.11E-05	4.97E-01	1.94E+00
480	9.31E+00	8.84E+01	4.38E-02	6.19E-05	5.80E-01	1.69E+00
490	1.05E+01	8.73E+01	3.64E-02	4.71E-05	6.74E-01	1.46E+00
500	1.18E+01	8.62E+01	3.02E-02	3.59E-05	7.82E-01	1.27E+00
510	1.32E+01	8.48E+01	2.50E-02	2.73E-05	9.05E-01	1.10E+00
520	1.47E+01	8.33E+01	2.07E-02	2.07E-05	1.04E+00	9.46E-01
530	1.64E+01	8.16E+01	1.71E-02	1.57E-05	1.20E+00	8.15E-01
540	1.82E+01	7.97E+01	1.41E-02	1.18E-05	1.38E+00	7.01E-01
550	2.02E+01	7.76E+01	1.16E-02	8.93E-06	1.57E+00	6.01E-01
560	2.23E+01	7.54E+01	9.47E-03	6.73E-06	1.79E+00	5.14E-01
570	2.45E+01	7.30E+01	7.74E-03	5.05E-06	2.04E+00	4.38E-01
580	2.68E+01	7.05E+01	6.31E-03	3.78E-06	2.30E+00	3.72E-01
590	2.93E+01	6.78E+01	5.13E-03	2.83E-06	2.59E+00	3.16E-01
600	3.18E+01	6.50E+01	4.15E-03	2.11E-06	2.91E+00	2.67E-01

Продолжение табл. 22

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ S, %	N ₂ /S, %
610	3.45E+01	6.21E+01	3.35E-03	1.56E-06	3.25E+00	2.25E-01
620	3.72E+01	5.90E+01	2.70E-03	1.16E-06	3.62E+00	1.89E-01
630	3.99E+01	5.59E+01	2.17E-03	8.55E-07	4.01E+00	1.58E-01
640	4.27E+01	5.28E+01	1.73E-03	6.29E-07	4.42E+00	1.31E-01
650	4.54E+01	4.96E+01	1.38E-03	4.61E-07	4.85E+00	1.09E-01
660	4.81E+01	4.65E+01	1.09E-03	3.37E-07	5.30E+00	9.03E-02
670	5.08E+01	4.34E+01	8.66E-04	2.46E-07	5.77E+00	7.44E-02
680	5.34E+01	4.03E+01	6.83E-04	1.78E-07	6.26E+00	6.11E-02
690	5.59E+01	3.73E+01	5.37E-04	1.29E-07	6.76E+00	5.01E-02
700	5.83E+01	3.44E+01	4.21E-04	9.33E-08	7.26E+00	4.09E-02
710	6.05E+01	3.16E+01	3.29E-04	6.72E-08	7.78E+00	3.33E-02
720	6.27E+01	2.90E+01	2.56E-04	4.83E-08	8.30E+00	2.10E-02
730	6.47E+01	2.65E+01	1.99E-04	3.46E-08	8.83E+00	2.18E-02
740	6.65E+01	2.41E+01	1.54E-04	2.47E-08	9.36E+00	1.76E-02
750	6.82E+01	2.19E+01	1.19E-04	1.77E-08	9.89E+00	1.42E-02
760	6.97E+01	1.99E+01	9.21E-05	1.26E-08	1.04E+01	1.14E-02
770	7.11E+01	1.80E+01	7.10E-05	8.94E-09	1.09E+01	9.15E-03
780	7.23E+01	1.62E+01	5.46E-05	6.35E-09	1.15E+01	7.32E-03
790	7.34E+01	1.46E+01	4.20E-05	4.51E-09	1.20E+01	5.85E-03
800	7.43E+01	1.31E+01	3.22E-05	3.19E-09	1.25E+01	4.67E-03

D-266; LAT--80; LON-45; LT-12; F-70; FAV-70; A_p-100; UTI-9

80	5.41E-04	9.20E-04	2.09E+01	9.77E-01	1.75E-05	7.81E+01
90	5.98E-04	2.25E-01	2.08E+01	9.81E-01	1.19E-04	7.80E+01
100	9.40E-04	2.44E+00	1.99E+01	8.87E-01	2.10E-04	7.67E+01
110	2.08E-03	6.51E+00	1.85E+01	7.11E-01	4.43E-04	7.43E+01
120	3.65E-03	1.01E+01	1.74E+01	5.81E-01	6.47E-04	7.19E+01
130	4.13E-03	1.27E+01	1.65E+01	4.97E-01	8.36E-04	7.03E+01
140	4.90E-03	1.49E+01	1.54E+01	4.35E-01	9.45E-04	6.93E+01
150	6.89E-03	1.68E+01	1.44E+01	3.82E-01	1.05E-03	6.83E+01
160	9.73E-03	1.88E+01	1.35E+01	3.34E-01	1.18E-03	6.74E+01
170	1.34E-02	2.06E+01	1.27E+01	2.91E-01	1.38E-03	6.64E+01
180	1.79E-02	2.26E+01	1.19E+01	2.52E-01	1.65E-03	6.53E+01
190	2.35E-02	2.46E+01	1.11E+01	2.17E-01	2.03E-03	6.40E+01
200	3.04E-02	2.66E+01	1.04E+01	1.88E-01	2.53E-03	6.27E+01
210	3.87E-02	2.88E+01	9.77E+00	1.62E-01	3.18E-03	6.12E+01
220	4.89E-02	3.11E+01	9.13E+00	1.39E-01	4.01E-03	5.96E+01
230	6.11E-02	3.34E+01	8.51E+00	1.20E-01	5.07E-03	5.79E+01
240	7.57E-02	3.59E+01	7.91E+00	1.03E-01	6.38E-03	5.60E+01
250	9.30E-02	3.84E+01	7.34E+00	8.83E-02	8.01E-03	5.41E+01
260	1.13E-01	4.10E+01	6.79E+00	7.55E-02	1.00E-02	5.20E+01
270	1.38E-01	4.37E+01	6.26E+00	6.45E-02	1.24E-02	4.99E+01
280	1.66E-01	4.64E+01	5.75E+00	5.49E-02	1.54E-02	4.76E+01
290	1.99E-01	4.91E+01	5.28E+00	4.67E-02	1.89E-02	4.54E+01
300	2.37E-01	5.18E+01	4.82E+00	3.96E-02	2.32E-02	4.30E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	HS, %	N ₂ /S, %
310	2.84E-01	5.39E+01	4.46E+00	3.39E-02	2.86E-02	4.13E+01
320	3.35E-01	5.67E+01	4.04E+00	2.86E-02	3.46E-02	3.89E+01
330	3.92E-01	5.94E+01	3.65E+00	2.40E-02	4.17E-02	3.65E+01
340	4.58E-01	6.21E+01	3.29E+00	2.01E-02	5.00E-02	3.41E+01
350	5.32E-01	6.46E+01	2.96E+00	1.68E-02	5.97E-02	3.18E+01
360	6.16E-01	6.71E+01	2.66E+00	1.40E-02	7.10E-02	2.96E+01
370	7.11E-01	6.94E+01	2.38E+00	1.17E-02	8.42E-02	2.75E+01
380	8.17E-01	7.15E+01	2.12E+00	9.69E-03	9.95E-02	2.54E+01
390	9.37E-01	7.36E+01	1.89E+00	8.03E-03	1.17E-01	2.35E+01
400	1.07E+00	7.55E+01	1.68E+00	6.65E-03	1.37E-01	2.16E+01
410	1.22E+00	7.72E+01	1.49E+00	5.49E-03	1.61E-01	1.99E+01
420	1.38E+00	7.89E+01	1.32E+00	4.53E-03	1.88E-01	1.82E+01
430	1.57E+00	8.03E+01	1.17E+00	3.73E-03	2.18E-01	1.67E+01
440	1.77E+00	8.17E+01	1.03E+00	3.07E-03	2.54E-01	1.53E+01
450	2.00E+00	8.29E+01	9.08E-01	2.52E-03	2.94E-01	1.39E+01
460	2.25E+00	8.39E+01	7.99E-01	2.07E-03	3.39E-01	1.27E+01
470	2.53E+00	8.48E+01	7.02E-01	1.69E-03	3.91E-01	1.16E+01
480	2.83E+00	8.56E+01	6.16E-01	1.39E-03	4.50E-01	1.05E+01
490	3.17E+00	8.62E+01	5.40E-01	1.13E-03	5.16E-01	9.54E+00
500	3.54E+00	8.67E+01	4.73E-01	9.26E-04	5.91E-01	8.65E+00
510	3.94E+00	8.71E+01	4.14E-01	7.56E-04	6.76E-01	7.83E+00
520	4.38E+00	8.74E+01	3.62E-01	6.16E-04	7.72E-01	7.09E+00
530	4.87E+00	8.75E+01	3.16E-01	5.02E-04	8.80E-01	6.40E+00
540	5.39E+00	8.76E+01	2.75E-01	4.09E-04	1.00E+00	5.78E+00
550	5.97E+00	8.74E+01	2.40E-01	3.33E-04	1.11E+00	5.21E+00
560	6.59E+00	8.72E+01	2.09E-01	2.71E-04	1.29E+00	4.69E+00
570	7.27E+00	8.69E+01	1.82E-01	2.20E-04	1.46E+00	4.22E+00
580	8.01E+00	8.64E+01	1.58E-01	1.78E-04	1.64E+00	3.79E+00
590	8.08E+00	8.58E+01	1.37E-01	1.45E-04	1.85E+00	3.40E+00
600	9.65E+00	8.51E+01	1.19E-01	1.17E-04	2.09E+00	3.05E+00
610	1.06E+01	8.43E+01	1.03E-01	9.50E-05	2.34E+00	2.73E+00
620	1.16E+01	8.33E+01	8.88E-02	7.68E-05	2.62E+00	2.44E+00
630	1.26E+01	8.22E+01	7.67E-02	6.20E-05	2.94E+00	2.18E+00
640	1.37E+01	8.10E+01	6.61E-02	5.01E-05	3.28E+00	1.94E+00
650	1.49E+01	7.97E+01	5.69E-02	4.03E-05	3.65E+00	1.73E+00
660	1.62E+01	7.82E+01	4.90E-02	3.25E-05	4.06E+00	1.54E+00
670	1.75E+01	7.66E+01	4.21E-02	2.61E-05	4.50E+00	1.36E+00
680	1.89E+01	7.49E+01	3.60E-02	2.09E-05	4.98E+00	1.21E+00
690	2.03E+01	7.31E+01	3.08E-02	1.68E-05	5.49E+00	1.07E+00
700	2.18E+01	7.12E+01	2.63E-02	1.34E-05	6.04E+00	9.44E-01
710	2.34E+01	6.91E+01	2.25E-02	1.07E-05	6.64E+00	8.31E-01
720	2.50E+01	6.70E+01	1.91E-02	8.55E-06	7.27E+00	7.31E-01
730	2.66E+01	6.48E+01	1.62E-02	6.81E-06	7.93E+00	6.41E-01
740	2.83E+01	6.25E+01	1.38E-02	5.41E-06	8.64E+00	5.61E-01
750	3.00E+01	6.01E+01	1.16E-02	4.29E-06	9.38E+00	4.90E-01
760	3.17E+01	5.77E+01	9.82E-03	3.39E-06	1.02E+01	4.27E-01
770	3.34E+01	5.52E+01	8.27E-03	2.68E-06	1.10E+01	3.71E-01
780	3.51E+01	5.27E+01	6.95E-03	2.11E-06	1.18E+01	3.22E-01
790	3.68E+01	5.02E+01	5.82E-03	1.66E-06	1.27E+01	2.79E-01
800	3.85E+01	4.77E+01	4.87E-03	1.30E-06	1.36E+01	2.41E-01

Таблица 23

Широтные вариации состава при средней солнечной активности для осеннего равноденствия в северном и весеннего в южном полушариях

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
D-266; LAT- 0; LON-45; LT-12; F-150; FAV-150; A _p -100, UT1- 9						
80	5.59E-04	1.32E-03	2.08E+01	9.04E-01	1.57E-05	7.83E+01
90	6.15E-04	3.37E-01	2.02E+01	8.71E-01	9.59E-05	7.86E+01
100	9.54E-04	3.79E+00	1.79E+01	7.43E-01	1.44E-04	7.75E+01
110	2.51E-03	1.17E+01	1.30E+01	4.87E-01	3.26E-04	7.48E+01
120	7.66E-03	2.10E+01	8.56E+00	2.98E-01	6.50E-04	7.01E+01
130	1.68E-02	2.79E+01	6.31E+00	2.06E-01	7.48E-04	6.56E+01
140	2.93E-02	3.33E+01	5.19E+00	1.51E-01	7.39E-04	6.14E+01
150	4.29E-02	3.79E+01	4.49E+00	1.14E-01	7.11E-04	5.75E+01
160	5.83E-02	4.21E+01	3.97E+00	8.94E-02	7.03E-04	5.38E+01
170	7.61E-02	4.60E+01	3.52E+00	7.11E-02	7.29E-04	5.03E+01
180	9.65E-02	4.97E+01	3.14E+00	5.73E-02	7.90E-04	4.70E+01
190	1.20E-01	5.32E+01	2.80E+00	4.65E-02	8.87E-04	4.38E+01
200	1.46E-01	5.65E+01	2.49E+00	3.80E-02	1.02E-03	4.08E+01
210	1.76E-01	5.97E+01	2.22E+00	3.11E-02	1.19E-03	3.79E+01
220	2.11E-01	6.27E+01	1.98E+00	2.55E-02	1.41E-03	3.51E+01
230	2.49E-01	6.55E+01	1.76E+00	2.09E-02	1.67E-03	3.25E+01
240	2.92E-01	6.81E+01	1.56E+00	1.72E-02	1.99E-03	3.00E+01
250	3.41E-01	7.06E+01	1.39E+00	1.41E-02	2.36E-03	2.77E+01
260	3.95E-01	7.29E+01	1.23E+00	1.16E-02	2.79E-03	2.55E+01
270	4.56E-01	7.51E+01	1.09E+00	9.51E-03	3.30E-03	2.34E+01
280	5.24E-01	7.71E+01	9.59E-01	7.80E-03	3.88E-03	2.14E+01
290	6.00E-01	7.89E+01	8.47E-01	6.39E-03	4.56E-03	1.96E+01
300	6.85E-01	8.06E+01	7.46E-01	5.23E-03	5.35E-03	1.79E+01
310	7.78E-01	8.22E+01	6.55E-01	4.27E-03	6.23E-03	1.63E+01
320	8.83E-01	8.36E+01	5.76E-01	3.50E-03	7.26E-03	1.49E+01
330	9.99E-01	8.49E+01	5.06E-01	2.86E-03	8.44E-03	1.36E+01
340	1.13E+00	8.61E+01	4.45E-01	2.34E-03	9.79E-03	1.24E+01
350	1.27E+00	8.71E+01	3.90E-01	1.91E-03	1.13E-02	1.12E+01
360	1.43E+00	8.80E+01	3.42E-01	1.56E-03	1.31E-02	1.02E+01
370	1.61E+00	8.88E+01	2.99E-01	1.27E-03	1.51E-02	9.26E+00
380	1.80E+00	8.95E+01	2.62E-01	1.04E-03	1.74E-02	8.40E+00
390	2.02E+00	9.01E+01	2.29E-01	8.45E-04	2.00E-02	7.61E+00
400	2.25E+00	9.06E+01	2.00E-01	6.88E-04	2.29E-02	6.89E+00
410	2.51E+00	9.11E+01	1.75E-01	5.61E-04	2.62E-02	6.23E+00
420	2.80E+00	9.14E+01	1.53E-01	4.57E-04	3.00E-02	5.63E+00
430	3.12E+00	9.16E+01	1.33E-01	3.72E-04	3.43E-02	5.09E+00
440	3.46E+00	9.18E+01	1.16E-01	3.03E-04	3.91E-02	4.59E+00
450	3.84E+00	9.19E+01	1.01E-01	2.46E-04	4.45E-02	4.15E+00
460	4.26E+00	9.19E+01	8.84E-02	2.00E-04	5.07E-02	3.74E+00
470	4.72E+00	9.18E+01	7.70E-02	1.63E-04	5.76E-02	3.37E+00
480	5.22E+00	9.16E+01	6.70E-02	1.32E-04	6.53E-02	3.04E+00
490	5.77E+00	9.14E+01	5.83E-02	1.08E-04	7.40E-02	2.74E+00
500	6.36E+00	9.10E+01	5.07E-02	8.75E-05	8.38E-02	2.46E+00

z , км	He/S , %	O_2/S , %	O_2/S , %	Ar/S , %	H/S , %	N_2/S , %
510	7.01E+00	9.06E+01	4.41E-02	7.11E-05	9.47E-02	2.21E+00
520	7.72E+00	9.01E+01	3.83E-02	5.78E-05	1.07E-01	1.99E+00
530	8.49E+00	8.96E+01	3.33E-02	4.69E-05	1.21E-01	1.79E+00
540	9.32E+00	8.89E+01	2.89E-02	3.81E-05	1.36E-01	1.60E+00
550	1.02E+01	8.82E+01	2.51E-02	3.09E-05	1.53E-01	1.44E+00
560	1.12E+01	8.73E+01	2.17E-02	2.50E-05	1.71E-01	1.29E+00
570	1.22E+01	8.64E+01	1.88E-02	2.03E-05	1.92E-01	1.15E+00
580	1.33E+01	8.54E+01	1.63E-02	1.64E-05	2.15E-01	1.03E+00
590	1.45E+01	8.43E+01	1.41E-02	1.33E-05	2.40E-01	9.23E-01
600	1.58E+01	8.31E+01	1.22E-02	1.07E-05	2.68E-01	8.24E-01
610	1.72E+01	8.18E+01	1.05E-02	8.68E-06	2.98E-01	7.35E-01
620	1.86E+01	8.04E+01	9.04E-03	7.01E-06	3.31E-01	6.54E-01
630	2.02E+01	7.89E+01	7.79E-03	5.65E-06	3.68E-01	5.82E-01
640	2.18E+01	7.73E+01	6.70E-03	4.55E-06	4.07E-01	5.17E-01
650	2.35E+01	7.56E+01	5.75E-03	3.66E-06	4.50E-01	4.59E-01
660	2.53E+01	7.38E+01	4.93E-03	2.95E-06	4.96E-01	4.07E-01
670	2.72E+01	7.19E+01	4.22E-03	2.36E-06	5.46E-01	3.60E-01
680	2.91E+01	7.00E+01	3.61E-03	1.90E-06	5.99E-01	3.18E-01
690	3.11E+01	6.79E+01	3.08E-03	1.52E-06	6.56E-01	2.80E-01
700	3.32E+01	6.58E+01	2.63E-03	1.21E-06	7.17E-01	2.46E-01
710	3.54E+01	6.36E+01	2.24E-03	9.68E-07	7.82E-01	2.16E-01
720	3.75E+01	6.14E+01	1.90E-03	7.72E-07	8.50E-01	1.90E-01
730	3.98E+01	5.91E+01	1.61E-03	6.14E-07	9.22E-01	1.66E-01
740	4.20E+01	5.68E+01	1.36E-03	4.88E-07	9.98E-01	1.45E-01
750	4.43E+01	5.45E+01	1.15E-03	3.87E-07	1.08E+00	1.27E-01
760	4.66E+01	5.21E+01	9.72E-04	3.07E-07	1.16E+00	1.10E-01
770	4.89E+01	4.98E+01	8.18E-04	2.42E-07	1.25E+00	9.58E-02
780	5.12E+01	4.74E+01	6.87E-04	1.91E-07	1.34E+00	8.30E-02
790	5.34E+01	4.51E+01	5.77E-04	1.51E-07	1.43E+00	7.19E-02
800	5.57E+01	4.28E+01	4.83E-04	1.19E-07	1.52E+00	6.21E-02

D-266; LAT-40; LON-45; LT-12; F-150; FAV-150; A_p -100; UT1-9

80	5.42E-04	1.29E-03	2.08E+01	8.66E-01	1.44E-05	7.83E+01
90	6.04E-04	3.31E-01	2.03E+01	8.07E-01	9.17E-05	7.85E+01
100	9.53E-04	3.75E+00	1.81E+01	6.52E-01	1.45E-04	7.75E+01
110	2.34E-03	1.09E+01	1.37E+01	4.26E-01	2.99E-04	7.50E+01
120	5.61E-03	1.85E+01	9.64E+00	2.67E-01	4.63E-04	7.16E+01
130	1.12E-02	2.43E+01	7.39E+00	1.78E-01	5.14E-04	6.81E+01
140	1.85E-02	2.90E+01	6.23E+00	1.25E-01	4.98E-04	6.46E+01
150	2.68E-02	3.31E+01	5.48E+00	9.19E-02	4.74E-04	6.13E+01
160	3.66E-02	3.70E+01	4.91E+00	7.05E-02	4.68E-04	5.80E+01
170	4.79E-02	4.06E+01	4.41E+00	5.56E-02	4.84E-04	5.48E+01
180	6.11E-02	4.42E+01	3.97E+00	4.47E-02	5.26E-04	5.17E+01
190	7.64E-02	4.76E+01	3.58E+00	3.64E-02	5.92E-04	4.87E+01
200	9.39E-02	5.09E+01	3.22E+00	2.99E-02	6.85E-04	4.58E+01

Продолжение табл. 23

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.14E-01	5.41E+01	2.90E+00	2.47E-02	8.05E-04	4.29E+01
220	1.37E-01	5.72E+01	2.60E+00	2.04E-02	9.56E-04	4.01E+01
230	1.63E-01	6.01E+01	2.33E+00	1.69E-02	1.14E-03	3.74E+01
240	1.92E-01	6.29E+01	2.09E+00	1.40E-02	1.36E-03	3.48E+01
250	2.26E-01	6.56E+01	1.87E+00	1.16E-02	1.63E-03	3.23E+01
260	2.63E-01	6.81E+01	1.66E+00	9.56E-03	1.94E-03	2.99E+01
270	3.06E-01	7.05E+01	1.48E+00	7.90E-03	2.30E-03	2.77E+01
280	3.53E-01	7.28E+01	1.32E+00	6.52E-03	2.72E-03	2.55E+01
290	4.06E-01	7.49E+01	1.17E+00	5.37E-03	3.21E-03	2.35E+01
300	4.66E-01	7.69E+01	1.04E+00	4.43E-03	3.78E-03	2.16E+01
310	5.31E-01	7.89E+01	9.15E-01	3.64E-03	4.43E-03	1.98E+01
320	6.06E-01	8.04E+01	8.09E-01	2.99E-03	5.18E-03	1.81E+01
330	6.88E-01	8.20E+01	7.14E-01	2.46E-03	6.06E-03	1.66E+01
340	7.80E-01	8.34E+01	6.30E-01	2.01E-03	7.04E-03	1.52E+01
350	8.82E-01	8.47E+01	5.54E-01	1.65E-03	8.17E-03	1.38E+01
360	9.95E-01	8.59E+01	4.88E-01	1.35E-03	9.47E-03	1.26E+01
370	1.12E+00	8.70E+01	4.29E-01	1.11E-03	1.10E-02	1.15E+01
380	1.26E+00	8.79E+01	3.76E-01	9.07E-04	1.26E-02	1.04E+01
390	1.41E+00	8.88E+01	3.30E-01	7.42E-04	1.46E-02	9.49E+00
400	1.58E+00	8.95E+01	2.89E-01	6.06E-04	1.67E-02	8.62E+00
410	1.77E+00	9.01E+01	2.54E-01	4.96E-04	1.92E-02	7.82E+00
420	1.98E+00	9.07E+01	2.22E-01	4.05E-04	2.20E-02	7.09E+00
430	2.21E+00	9.12E+01	1.94E-01	3.30E-04	2.52E-02	6.42E+00
440	2.46E+00	9.15E+01	1.70E-01	2.70E-04	2.88E-02	5.81E+00
450	2.73E+00	9.18E+01	1.49E-01	2.20E-04	3.29E-02	5.26E+00
460	3.04E+00	9.20E+01	1.30E-01	1.80E-04	3.75E-02	4.75E+00
470	3.37E+00	9.22E+01	1.13E-01	1.46E-04	4.27E-02	4.30E+00
480	3.74E+00	9.22E+01	9.90E-02	1.19E-04	4.86E-02	3.88E+00
490	4.14E+00	9.22E+01	8.64E-02	9.74E-05	5.52E-02	3.50E+00
500	4.57E+00	9.21E+01	7.53E-02	7.94E-05	6.26E-02	3.16E+00
510	5.05E+00	9.20E+01	6.57E-02	6.47E-05	7.09E-02	2.85E+00
520	5.58E+00	9.17E+01	5.73E-02	5.27E-05	8.03E-02	2.57E+00
530	6.15E+00	9.14E+01	4.99E-02	4.29E-05	9.07E-02	2.32E+00
540	6.77E+00	9.10E+01	4.34E-02	3.50E-05	1.02E-01	2.09E+00
550	7.44E+00	9.05E+01	3.78E-02	2.85E-05	1.16E-01	1.88E+00
560	8.17E+00	9.00E+01	3.29E-02	2.32E-05	1.30E-01	1.69E+00
570	8.96E+00	8.93E+01	2.86E-02	1.88E-05	1.46E-01	1.52E+00
580	9.82E+00	8.86E+01	2.48E-02	1.53E-05	1.64E-01	1.36E+00
590	1.07E+01	8.78E+01	2.16E-02	1.25E-05	1.84E-01	1.22E+00
600	1.17E+01	8.69E+01	1.87E-02	1.01E-05	2.06E-01	1.10E+00
610	1.28E+01	8.60E+01	1.62E-02	8.22E-06	2.31E-01	9.83E-01
620	1.40E+01	8.49E+01	1.41E-02	6.67E-06	2.58E-01	8.80E-01
630	1.52E+01	8.37E+01	1.22E-02	5.41E-06	2.87E-01	7.87E-01
640	1.65E+01	8.25E+01	1.05E-02	4.38E-06	3.20E-01	7.02E-01
650	1.79E+01	8.11E+01	9.10E-03	3.55E-06	3.55E-01	6.27E-01
660	1.94E+01	7.97E+01	7.85E-03	2.87E-06	3.94E-01	5.59E-01
670	2.09E+01	7.82E+01	6.77E-03	2.32E-06	4.36E-01	4.98E-01
680	2.25E+01	7.65E+01	5.83E-03	1.87E-06	4.82E-01	4.43E-01
690	2.43E+01	7.48E+01	5.01E-03	1.51E-06	5.31E-01	3.93E-01
700	2.61E+01	7.30E+01	4.30E-03	1.22E-06	5.84E-01	3.48E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	2.79E+01	7.11E+01	3.69E-03	9.78E-07	6.41E-01	3.08E-01
720	2.99E+01	6.91E+01	3.16E-03	7.86E-07	7.03E-01	2.73E-01
730	3.19E+01	6.71E+01	2.70E-03	6.30E-07	7.68E-01	2.41E-01
740	3.40E+01	6.50E+01	2.30E-03	5.05E-07	8.38E-01	2.12E-01
750	3.61E+01	6.28E+01	1.96E-03	4.04E-07	9.11E-01	1.86E-01
760	3.82E+01	6.06E+01	1.67E-03	3.23E-07	9.89E-01	1.64E-01
770	4.05E+01	5.83E+01	1.42E-03	2.57E-07	1.07E+00	1.43E-01
780	4.27E+01	5.60E+01	1.20E-03	2.06E-07	1.16E+00	1.25E-01
790	4.49E+01	5.37E+01	1.02E-03	1.63E-07	1.25E+00	1.09E-01
800	4.72E+01	5.14E+01	8.58E-04	1.29E-07	1.34E+00	9.53E-02

D-266; LAT-80; LON-45; LT-12; F-150; FAV-150; A_p-100; UT1-9

80	5.37E-04	1.03E-03	2.09E+01	9.63E-01	1.37E-05	7.82E+01
90	5.88E-04	2.57E-01	2.06E+01	9.60E-01	8.46E-05	7.82E+01
100	9.48E-04	2.86E+00	1.93E+01	8.51E-01	1.42E-04	7.73E+01
110	2.11E-03	7.69E+00	1.63E+01	6.82E-01	2.58E-04	7.54E+01
120	3.86E-03	1.20E+01	1.37E+01	5.57E-01	3.20E-04	7.37E+01
130	5.56E-03	1.52E+01	1.20E+01	4.72E-01	3.29E-04	7.23E+01
140	7.57E-03	1.77E+01	1.09E+01	4.09E-01	3.07E-04	7.09E+01
150	1.06E-02	1.99E+01	1.01E+01	3.57E-01	2.86E-04	6.96E+01
160	1.45E-02	2.20E+01	9.47E+00	3.12E-01	2.79E-04	6.82E+01
170	1.91E-02	2.40E+01	8.87E+00	2.72E-01	2.88E-04	6.68E+01
180	2.48E-02	2.61E+01	8.31E+00	2.37E-01	3.14E-04	6.53E+01
190	3.14E-02	2.82E+01	7.79E+00	2.06E-01	3.57E-04	6.38E+01
200	3.94E-02	3.03E+01	7.30E+00	1.79E-01	4.18E-04	6.22E+01
210	4.86E-02	3.25E+01	6.84E+00	1.56E-01	4.99E-04	6.04E+01
220	5.96E-02	3.48E+01	6.38E+00	1.35E-01	6.02E-04	5.86E+01
230	7.24E-02	3.71E+01	5.96E+00	1.17E-01	7.31E-04	5.68E+01
240	8.73E-02	3.95E+01	5.55E+00	1.02E-01	8.89E-04	5.48E+01
250	1.05E-01	4.19E+01	5.15E+00	8.80E-02	1.08E-03	5.27E+01
260	1.25E-01	4.44E+01	4.78E+00	7.60E-02	1.31E-03	5.06E+01
270	1.47E-01	4.69E+01	4.42E+00	6.56E-02	1.58E-03	4.85E+01
280	1.74E-01	4.94E+01	4.07E+00	5.64E-02	1.91E-03	4.63E+01
290	2.04E-01	5.19E+01	3.75E+00	4.85E-02	2.29E-03	4.41E+01
300	2.38E-01	5.44E+01	3.44E+00	4.16E-02	2.74E-03	4.19E+01
310	2.79E-01	5.64E+01	3.18E+00	3.59E-02	3.30E-03	4.01E+01
320	3.23E-01	5.89E+01	2.90E+00	3.06E-02	3.91E-03	3.78E+01
330	3.72E-01	6.14E+01	2.64E+00	2.61E-02	4.61E-03	3.56E+01
340	4.27E-01	6.37E+01	2.40E+00	2.21E-02	5.43E-03	3.34E+01
350	4.89E-01	6.60E+01	2.18E+00	1.88E-02	6.38E-03	3.13E+01
360	5.58E-01	6.81E+01	1.97E+00	1.59E-02	7.46E-03	2.93E+01
370	6.35E-01	7.02E+01	1.78E+00	1.31E-02	8.70E-03	2.73E+01
380	7.21E-01	7.22E+01	1.60E+00	1.13E-02	1.01E-02	2.55E+01
390	8.16E-01	7.40E+01	1.44E+00	9.56E-03	1.17E-02	2.37E+01
400	9.21E-01	7.58E+01	1.30E+00	8.05E-03	1.36E-02	2.20E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	1.04E+00	7.74E+01	1.16E+00	6.76E-03	1.57E-02	2.04E+01
420	1.17E+00	7.89E+01	1.04E+00	5.68E-03	1.81E-02	1.89E+01
430	1.31E+00	8.03E+01	9.30E-01	4.76E-03	2.07E-02	1.74E+01
440	1.46E+00	8.16E+01	8.31E-01	3.99E-03	2.38E-02	1.61E+01
450	1.64E+00	8.28E+01	7.41E-01	3.33E-03	2.72E-02	1.48E+01
460	1.82E+00	8.39E+01	6.61E-01	2.79E-03	3.11E-02	1.36E+01
470	2.03E+00	8.48E+01	5.88E-01	2.33E-03	3.55E-02	1.25E+01
480	2.26E+00	8.57E+01	5.23E-01	1.94E-03	4.04E-02	1.15E+01
490	2.50E+00	8.64E+01	4.65E-01	1.62E-03	4.59E-02	1.05E+01
500	2.77E+00	8.71E+01	4.13E-01	1.35E-03	5.20E-02	9.65E+00
510	3.07E+00	8.77E+01	3.66E-01	1.12E-03	5.89E-02	8.84E+00
520	3.39E+00	8.81E+01	3.25E-01	9.37E-04	6.67E-02	8.09E+00
530	3.74E+00	8.85E+01	2.88E-01	7.79E-04	7.53E-02	7.39E+00
540	4.12E+00	8.88E+01	2.55E-01	6.48E-04	8.49E-02	6.75E+00
550	4.53E+00	8.90E+01	2.25E-01	5.39E-04	9.57E-02	6.16E+00
560	4.98E+00	8.91E+01	1.99E-01	4.48E-04	1.08E-01	5.62E+00
570	5.47E+00	8.91E+01	1.76E-01	3.72E-04	1.21E-01	5.12E+00
580	6.00E+00	8.90E+01	1.55E-01	3.09E-04	1.36E-01	4.67E+00
590	6.57E+00	8.89E+01	1.37E-01	2.56E-04	1.52E-01	4.25E+00
600	7.18E+00	8.87E+01	1.21E-01	2.12E-04	1.70E-01	3.86E+00
610	7.84E+00	8.83E+01	1.07E-01	1.76E-04	1.90E-01	3.51E+00
620	8.56E+00	8.79E+01	9.40E-02	1.46E-04	2.12E-01	3.19E+00
630	9.32E+00	8.75E+01	8.27E-02	1.21E-04	2.37E-01	2.90E+00
640	1.01E+01	8.69E+01	7.28E-02	1.00E-04	2.63E-01	2.63E+00
650	1.10E+01	8.62E+01	6.40E-02	8.29E-05	2.93E-01	2.38E+00
660	1.20E+01	8.55E+01	5.62E-02	6.86E-05	3.25E-01	2.16E+00
670	1.30E+01	8.47E+01	4.94E-02	5.67E-05	3.60E-01	1.95E+00
680	1.40E+01	8.38E+01	4.33E-02	4.68E-05	3.99E-01	1.76E+00
690	1.52E+01	8.28E+01	3.80E-02	3.87E-05	4.41E-01	1.59E+00
700	1.64E+01	8.17E+01	3.33E-02	3.19E-05	4.87E-01	1.44E+00
710	1.77E+01	8.05E+01	2.91E-02	2.63E-05	5.37E-01	1.29E+00
720	1.90E+01	7.92E+01	2.54E-02	2.17E-05	5.90E-01	1.17E+00
730	2.04E+01	7.79E+01	2.22E-02	1.78E-05	6.48E-01	1.05E+00
740	2.19E+01	7.64E+01	1.94E-02	1.47E-05	7.11E-01	9.42E-01
750	2.34E+01	7.49E+01	1.69E-02	1.20E-05	7.78E-01	8.46E-01
760	2.50E+01	7.33E+01	1.47E-02	9.88E-06	8.50E-01	7.58E-01
770	2.67E+01	7.17E+01	1.28E-02	8.10E-06	9.27E-01	6.78E-01
780	2.85E+01	6.99E+01	1.11E-02	6.64E-06	1.01E+00	6.06E-01
790	3.02E+01	6.81E+01	9.61E-03	5.43E-06	1.10E+00	5.41E-01
800	3.21E+01	6.62E+01	8.32E-03	4.44E-06	1.19E+00	4.82E-01

D-266; LAT-40; LON-45; LT-12; F-150; FAV-150; A_p-100; UT1-9

80	5.44E-04	1.28E-03	2.08E+01	9.56E-01	1.46E-05	7.82E+01
90	6.07E-04	3.29E-01	2.04E+01	9.51E-01	9.28E-05	7.83E+01
100	9.46E-04	3.69E+00	1.85E+01	8.48E-01	1.43E-04	7.70E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.36E-03	1.08E+01	1.45E+01	6.23E-01	3.04E-04	7.40E+01
120	5.67E-03	1.83E+01	1.08E+01	4.51E-01	4.88E-04	7.04E+01
130	1.02E-02	2.42E+01	8.67E+00	3.53E-01	5.44E-04	6.68E+01
140	1.59E-02	2.89E+01	7.44E+00	2.86E-01	5.30E-04	6.34E+01
150	2.29E-02	3.29E+01	6.59E+00	2.36E-01	5.07E-04	6.02E+01
160	3.11E-02	3.68E+01	5.92E+00	1.96E-01	5.00E-04	5.71E+01
170	4.07E-02	4.04E+01	5.34E+00	1.63E-01	5.17E-04	5.41E+01
180	5.18E-02	4.38E+01	4.83E+00	1.36E-01	5.60E-04	5.12E+01
190	6.46E-02	4.71E+01	4.37E+00	1.13E-01	6.29E-04	4.83E+01
200	7.91E-02	5.04E+01	3.95E+00	9.46E-02	7.25E-04	4.55E+01
210	9.56E-02	5.34E+01	3.57E+00	7.91E-02	8.49E-04	4.28E+01
220	1.14E-01	5.64E+01	3.22E+00	6.61E-02	1.00E-03	4.02E+01
230	1.36E-01	5.93E+01	2.91E+00	5.53E-02	1.19E-03	3.76E+01
240	1.59E-01	6.20E+01	2.62E+00	4.63E-02	1.41E-03	3.52E+01
250	1.86E-01	6.46E+01	2.35E+00	3.87E-02	1.68E-03	3.28E+01
260	2.16E-01	6.71E+01	2.11E+00	3.24E-02	1.98E-03	3.06E+01
270	2.50E-01	6.94E+01	1.90E+00	2.70E-02	2.34E-03	2.84E+01
280	2.87E-01	7.16E+01	1.70E+00	2.26E-02	2.75E-03	2.63E+01
290	3.29E-01	7.37E+01	1.52E+00	1.88E-02	3.23E-03	2.44E+01
300	3.75E-01	7.57E+01	1.36E+00	1.57E-02	3.78E-03	2.26E+01
310	4.26E-01	7.75E+01	1.21E+00	1.30E-02	4.40E-03	2.08E+01
320	4.83E-01	7.92E+01	1.08E+00	1.09E-02	5.11E-03	1.92E+01
330	5.46E-01	8.08E+01	9.59E-01	9.02E-03	5.92E-03	1.77E+01
340	6.15E-01	8.23E+01	8.53E-01	7.50E-03	6.85E-03	1.63E+01
350	6.92E-01	8.36E+01	7.57E-01	6.23E-03	7.90E-03	1.49E+01
360	7.77E-01	8.48E+01	6.72E-01	5.17E-03	9.10E-03	1.37E+01
370	8.71E-01	8.60E+01	5.96E-01	4.29E-03	1.05E-02	1.26E+01
380	9.74E-01	8.70E+01	5.28E-01	3.55E-03	1.20E-02	1.15E+01
390	1.09E+00	8.79E+01	4.68E-01	2.95E-03	1.37E-02	1.05E+01
400	1.21E+00	8.87E+01	4.14E-01	2.44E-03	1.57E-02	9.63E+00
410	1.35E+00	8.95E+01	3.66E-01	2.02E-03	1.79E-02	8.80E+00
420	1.50E+00	9.01E+01	3.23E-01	1.67E-03	2.04E-02	8.04E+00
430	1.66E+00	9.07E+01	2.86E-01	1.38E-03	2.32E-02	7.33E+00
440	1.84E+00	9.12E+01	2.52E-01	1.15E-03	2.63E-02	6.69E+00
450	2.04E+00	9.16E+01	2.22E-01	9.47E-04	2.98E-02	6.10E+00
460	2.26E+00	9.20E+01	1.96E-01	7.83E-04	3.38E-02	5.55E+00
470	2.50E+00	9.22E+01	1.73E-01	6.48E-04	3.83E-02	5.06E+00
480	2.75E+00	9.24E+01	1.53E-01	5.35E-04	4.33E-02	4.61E+00
490	3.04E+00	9.26E+01	1.34E-01	4.43E-04	4.89E-02	4.19E+00
500	3.35E+00	9.27E+01	1.18E-01	3.68E-04	5.51E-02	3.81E+00
510	3.68E+00	9.27E+01	1.04E-01	3.02E-04	6.21E-02	3.47E+00
520	4.05E+00	9.26E+01	9.19E-02	2.50E-04	6.99E-02	3.15E+00
530	4.44E+00	9.25E+01	8.09E-02	2.07E-04	7.86E-02	2.86E+00
540	4.88E+00	9.24E+01	7.12E-02	1.71E-04	8.83E-02	2.60E+00
550	5.34E+00	9.21E+01	6.26E-02	1.41E-04	9.91E-02	2.36E+00
560	5.85E+00	9.18E+01	5.50E-02	1.16E-04	1.11E-01	2.14E+00
570	6.40E+00	9.15E+01	4.84E-02	9.62E-05	1.24E-01	1.94E+00
580	7.00E+00	9.11E+01	4.25E-02	7.94E-05	1.39E-01	1.76E+00
590	7.64E+00	9.06E+01	3.74E-02	6.55E-05	1.56E-01	1.59E+00
600	8.33E+00	9.00E+01	3.28E-02	5.41E-05	1.74E-01	1.44E+00

Продолжение табл. 23

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N/S, %
610	9.08E+00	8.94E+01	2.88E-02	4.46E-05	1.94E-01	1.31E+00
620	9.88E+00	8.87E+01	2.53E-02	3.68E-05	2.16E-01	1.18E+00
630	1.07E+01	8.79E+01	2.21E-02	3.04E-05	2.40E-01	1.07E+00
640	1.17E+01	8.71E+01	1.94E-02	2.50E-05	2.66E-01	9.66E-01
650	1.26E+01	8.62E+01	1.70E-02	2.06E-05	2.96E-01	8.73E-01
660	1.37E+01	8.52E+01	1.49E-02	1.70E-05	3.28E-01	7.87E-01
670	1.48E+01	8.41E+01	1.30E-02	1.40E-05	3.62E-01	7.10E-01
680	1.60E+01	8.30E+01	1.14E-02	1.15E-05	4.07E-01	6.39E-01
690	1.72E+01	8.17E+01	9.93E-03	9.45E-06	4.42E-01	5.75E-01
700	1.86E+01	8.04E+01	8.66E-03	7.76E-06	4.87E-01	5.17E-01
710	2.00E+01	7.90E+01	7.55E-03	6.37E-06	5.35E-01	4.64E-01
720	2.14E+01	7.76E+01	6.57E-03	5.23E-06	5.88E-01	4.17E-01
730	2.30E+01	7.60E+01	5.72E-03	4.28E-06	6.44E-01	3.73E-01
740	2.46E+01	7.44E+01	4.97E-03	3.51E-06	7.04E-01	3.34E-01
750	2.63E+01	7.27E+01	4.31E-03	2.87E-06	7.69E-01	2.99E-01
760	2.80E+01	7.09E+01	3.73E-03	2.34E-06	8.39E-01	2.67E-01
770	2.98E+01	6.91E+01	3.23E-03	1.91E-06	9.12E-01	2.38E-01
780	3.16E+01	6.72E+01	2.80E-03	1.56E-06	9.91E-01	2.12E-01
790	3.35E+01	6.52E+01	2.41E-03	1.27E-06	1.07E+00	1.88E-01
800	3.55E+01	6.32E+01	2.08E-03	1.03E-06	1.16E+00	1.67E-01

D-266; LAT--80; LON-45; LT-12; F-150; FAV-150; A_r-100; UTI-9

80	5.45E-04	9.78E-04	2.09E+01	9.74E-01	1.51E-05	7.81E+01
90	5.99E-04	2.41E-01	2.07E+01	9.80E-01	9.50E-05	7.81E+01
100	9.42E-04	2.68E+00	1.96E+01	8.86E-01	1.54E-04	7.69E+01
110	2.15E-03	7.14E+01	1.75E+01	7.05E-01	3.04E-04	7.46E+01
120	3.84E-03	1.11E+01	1.58E+01	5.77E-01	4.16E-04	7.25E+01
130	4.26E-03	1.40E+01	1.46E+01	4.98E-01	4.50E-04	7.09E+01
140	4.90E-03	1.62E+01	1.36E+01	4.42E-01	4.39E-04	6.98E+01
150	6.67E-03	1.82E+01	1.27E+01	3.94E-01	4.25E-04	6.87E+01
160	9.08E-03	2.00E+01	1.20E+01	3.52E-01	4.27E-04	6.77E+01
170	1.20E-02	2.17E+01	1.13E+01	3.12E-01	4.49E-04	6.67E+01
180	1.55E-02	2.34E+01	1.07E+01	2.76E-01	4.95E-04	6.57E+01
190	1.96E-02	2.51E+01	1.01E+01	2.44E-01	5.66E-04	6.45E+01
200	2.44E-02	2.69E+01	9.55E+00	2.16E-01	6.63E-04	6.33E+01
210	3.00E-02	2.87E+01	9.05E+00	1.90E-01	7.88E-04	6.21E+01
220	3.65E-02	3.05E+01	8.55E+00	1.68E-01	9.45E-04	6.07E+01
230	4.40E-02	3.24E+01	8.07E+00	1.49E-01	1.14E-03	5.93E+01
240	5.27E-02	3.44E+01	7.61E+00	1.32E-01	1.37E-03	5.78E+01
250	6.26E-02	3.64E+01	7.17E+00	1.17E-01	1.65E-03	5.62E+01
260	7.39E-02	3.85E+01	6.74E+00	1.03E-01	1.98E-03	5.46E+01
270	8.67E-02	4.06E+01	6.33E+00	9.08E-02	2.37E-03	5.29E+01
280	1.01E-01	4.27E+01	5.94E+00	8.00E-02	2.82E-03	5.11E+01
290	1.18E-01	4.49E+01	5.56E+00	7.04E-02	3.35E-03	4.94E+01
300	1.36E-01	4.71E+01	5.19E+00	6.19E-02	3.96E-03	4.75E+01

z, км	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	H ₂ /S, %	N ₂ /S, %
310	1.59E-01	4.88E+01	4.89E+00	5.50E-02	4.71E-03	4.61E+01
320	1.82E-01	5.10E+01	4.55E+00	4.81E-02	5.52E-03	4.42E+01
330	2.08E-01	5.33E+01	4.22E+00	4.21E-02	6.44E-03	4.22E+01
340	2.37E-01	5.55E+01	3.91E+00	3.68E-02	7.50E-03	4.03E+01
350	2.69E-01	5.77E+01	3.62E+00	3.21E-02	8.70E-03	3.84E+01
360	3.04E-01	5.98E+01	3.34E+00	2.80E-02	1.01E-02	3.65E+01
370	3.44E-01	6.19E+01	3.08E+00	2.44E-02	1.16E-02	3.46E+01
380	3.87E-01	6.40E+01	2.83E+00	2.12E-02	1.34E-02	3.28E+01
390	4.35E-01	6.59E+01	2.61E+00	1.84E-02	1.53E-02	3.10E+01
400	4.87E-01	6.78E+01	2.39E+00	1.59E-02	1.76E-02	2.93E+01
410	5.45E-01	6.96E+01	2.19E+00	1.38E-02	2.01E-02	2.76E+01
420	6.08E-01	7.13E+01	2.01E+00	1.19E-02	2.29E-02	2.60E+01
430	6.77E-01	7.30E+01	1.84E+00	1.03E-02	2.60E-02	2.45E+01
440	7.52E-01	7.46E+01	1.68E+00	8.92E-03	2.95E-02	2.30E+01
450	8.35E-01	7.60E+01	1.53E+00	7.69E-03	3.34E-02	2.16E+01
460	9.24E-01	7.74E+01	1.39E+00	6.63E-03	3.78E-02	2.02E+01
470	1.02E+00	7.88E+01	1.27E+00	5.71E-03	4.27E-02	1.89E+01
480	1.13E+00	8.00E+01	1.15E+00	4.91E-03	4.81E-02	1.77E+01
490	1.24E+00	8.11E+01	1.05E+00	4.23E-03	5.41E-02	1.65E+01
500	1.37E+00	8.22E+01	9.52E-01	3.63E-03	6.07E-02	1.54E+01
510	1.50E+00	8.32E+01	8.63E-01	3.12E-03	6.81E-02	1.44E+01
520	1.65E+00	8.41E+01	7.82E-01	2.68E-03	7.63E-02	1.34E+01
530	1.81E+00	8.49E+01	7.09E-01	2.30E-03	8.53E-02	1.24E+01
540	1.98E+00	8.57E+01	6.42E-01	1.97E-03	9.53E-02	1.16E+01
550	2.16E+00	8.64E+01	5.80E-01	1.69E-03	1.06E-01	1.08E+01
560	2.36E+00	8.70E+01	5.25E-01	1.45E-03	1.18E-01	1.00E+01
570	2.57E+00	8.75E+01	4.74E-01	1.24E-03	1.32E-01	9.28E+00
580	2.80E+00	8.80E+01	4.28E-01	1.06E-03	1.46E-01	8.61E+00
590	3.05E+00	8.84E+01	3.87E-01	9.07E-04	1.63E-01	7.98E+00
600	3.32E+00	8.88E+01	3.49E-01	7.76E-04	1.80E-01	7.40E+00
610	3.60E+00	8.90E+01	3.15E-01	6.64E-04	2.00E-01	6.85E+00
620	3.91E+00	8.92E+01	2.84E-01	5.68E-04	2.21E-01	6.35E+00
630	4.24E+00	8.94E+01	2.56E-01	4.86E-04	2.45E-01	5.87E+00
640	4.59E+00	8.95E+01	2.30E-01	4.15E-04	2.70E-01	5.43E+00
650	4.97E+00	8.95E+01	2.08E-01	3.55E-04	2.98E-01	5.02E+00
660	5.37E+00	8.95E+01	1.87E-01	3.03E-04	3.29E-01	4.64E+00
670	5.81E+00	8.94E+01	1.68E-01	2.59E-04	3.63E-01	4.29E+00
680	6.27E+00	8.92E+01	1.51E-01	2.21E-04	3.99E-01	3.96E+00
690	6.76E+00	8.90E+01	1.36E-01	1.89E-04	4.39E-01	3.65E+00
700	7.28E+00	8.87E+01	1.22E-01	1.61E-04	4.82E-01	3.37E+00
710	7.84E+00	8.84E+01	1.10E-01	1.38E-04	5.29E-01	3.11E+00
720	8.43E+00	8.80E+01	9.87E-02	1.17E-04	5.80E-01	2.86E+00
730	9.06E+00	8.76E+01	8.87E-02	1.00E-04	6.35E-01	2.64E+00
740	9.72E+00	8.71E+01	7.96E-02	8.53E-05	6.95E-01	2.43E+00
750	1.04E+01	8.65E+01	7.14E-02	7.28E-05	7.60E-01	2.24E+00
760	1.12E+01	8.59E+01	6.40E-02	6.20E-05	8.30E-01	2.06E+00
770	1.20E+01	8.52E+01	5.74E-02	5.28E-05	9.06E-01	1.89E+00
780	1.28E+01	8.44E+01	5.14E-02	4.50E-05	9.87E-01	1.74E+00
790	1.37E+01	8.36E+01	4.60E-02	3.83E-05	1.07E+00	1.60E+00
800	1.46E+01	8.28E+01	4.12E-02	3.26E-05	1.17E+00	1.46E+00

Таблица 24

Широтные вариации состава при высокой солнечной активности для осеннего равноденствия в северном и весеннего в южном полушариях

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
<i>D</i> -266; LAT-0; LON-45; LT-12; <i>F</i> -200; <i>F</i> Δ <i>V</i> -200; <i>A_p</i> -100; UT1-9						
80	5.54E-04	1.37E-03	2.07E+01	9.02E-01	1.40E-05	7.83E+01
90	6.16E-04	3.52E-01	2.02E+01	8.69E-01	8.41E-05	7.86E+01
100	9.54E-04	3.98E+00	1.77E+01	7.40E-01	1.19E-04	7.76E+01
110	2.47E-03	1.23E+01	1.26E+01	4.83E-01	2.55E-04	7.46E+01
120	5.29E-03	2.09E+01	8.26E+00	3.18E-01	3.35E-04	7.05E+01
130	1.13E-02	2.71E+01	6.11E+00	2.31E-01	3.18E-04	6.66E+01
140	2.12E-02	3.20E+01	5.05E+00	1.73E-01	2.86E-04	6.27E+01
150	3.19E-02	3.65E+01	4.39E+00	1.32E-01	2.66E-04	5.89E+01
160	4.42E-02	4.08E+01	3.87E+00	1.03E-01	2.62E-04	5.52E+01
170	5.86E-02	4.48E+01	3.44E+00	8.22E-02	2.73E-04	5.16E+01
180	7.53E-02	4.86E+01	3.06E+00	6.62E-02	2.98E-04	4.82E+01
190	9.48E-02	5.23E+01	2.73E+00	5.36E-02	3.39E-04	4.49E+01
200	1.17E-01	5.56E+01	2.43E+00	4.39E-02	3.92E-04	4.18E+01
210	1.41E-01	5.88E+01	2.18E+00	3.61E-02	4.59E-04	3.89E+01
220	1.67E-01	6.17E+01	1.95E+00	2.99E-02	5.41E-04	3.62E+01
230	1.97E-01	6.44E+01	1.71E+00	2.48E-02	6.37E-04	3.36E+01
240	2.30E-01	6.70E+01	1.56E+00	2.07E-02	7.50E-04	3.12E+01
250	2.66E-01	6.94E+01	1.40E+00	1.73E-02	8.81E-04	2.90E+01
260	3.05E-01	7.16E+01	1.25E+00	1.44E-02	1.03E-03	2.69E+01
270	3.48E-01	7.36E+01	1.12E+00	1.21E-02	1.20E-03	2.49E+01
280	3.95E-01	7.55E+01	1.01E+00	1.01E-02	1.39E-03	2.31E+01
290	4.46E-01	7.73E+01	9.02E-01	8.52E-03	1.61E-03	2.14E+01
300	5.02E-01	7.89E+01	8.09E-01	7.16E-03	1.85E-03	1.98E+01
310	5.60E-01	8.05E+01	7.21E-01	5.98E-03	2.11E-03	1.82E+01
320	6.28E-01	8.19E+01	6.46E-01	5.03E-03	2.42E-03	1.68E+01
330	7.01E-01	8.32E+01	5.78E-01	4.23E-03	2.77E-03	1.55E+01
340	7.82E-01	8.44E+01	5.17E-01	3.55E-03	3.16E-03	1.43E+01
350	8.71E-01	8.54E+01	4.62E-01	2.98E-03	3.60E-03	1.32E+01
360	9.68E-01	8.64E+01	4.12E-01	2.50E-03	4.10E-03	1.22E+01
370	1.07E+00	8.73E+01	3.68E-01	2.10E-03	4.65E-03	1.12E+01
380	1.19E+00	8.82E+01	3.28E-01	1.76E-03	5.28E-03	1.03E+01
390	1.32E+00	8.89E+01	2.93E-01	1.47E-03	5.97E-03	9.49E+00
400	1.46E+00	8.96E+01	2.60E-01	1.23E-03	6.79E-03	8.70E+00
410	1.61E+00	9.02E+01	2.31E-01	1.03E-03	7.67E-03	7.99E+00
420	1.78E+00	9.07E+01	2.06E-01	8.62E-04	8.65E-03	7.33E+00
430	1.96E+00	9.11E+01	1.83E-01	7.22E-04	9.74E-03	6.72E+00
440	2.15E+00	9.15E+01	1.63E-01	6.05E-04	1.10E-02	6.16E+00
450	2.37E+00	9.18E+01	1.45E-01	5.06E-04	1.23E-02	5.65E+00
460	2.60E+00	9.21E+01	1.29E-01	4.24E-04	1.38E-02	5.18E+00
470	2.85E+00	9.23E+01	1.15E-01	3.55E-04	1.55E-02	4.74E+00
480	3.12E+00	9.24E+01	1.02E-01	2.97E-04	1.74E-02	4.34E+00
490	3.41E+00	9.25E+01	9.05E-02	2.48E-04	1.95E-02	3.97E+00
500	3.73E+00	9.25E+01	8.04E-02	2.08E-04	2.18E-02	3.64E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H S, %	N ₂ /S, %
510	4.08E+00	9.25E+01	7.14E-02	1.74E-04	2.43E-02	3.32E+00
520	4.15E+00	9.24E+01	6.33E-02	1.46E-04	2.71E-02	3.04E+00
530	4.86E+00	9.23E+01	5.62E-02	1.22E-04	3.03E-02	2.78E+00
540	5.30E+00	9.21E+01	4.99E-02	1.02E-04	3.37E-02	2.54E+00
550	5.77E+00	9.18E+01	4.42E-02	8.52E-05	3.75E-02	2.32E+00
560	6.27E+00	9.15E+01	3.92E-02	7.13E-05	4.17E-02	2.12E+00
570	6.82E+00	9.12E+01	3.48E-02	5.96E-05	4.63E-02	1.93E+00
580	7.41E+00	9.07E+01	3.08E-02	4.99E-05	5.14E-02	1.76E+00
590	8.04E+00	9.03E+01	2.73E-02	4.17E-05	5.70E-02	1.61E+00
600	8.71E+00	8.97E+01	2.42E-02	3.49E-05	6.32E-02	1.47E+00
610	9.43E+00	8.91E+01	2.14E-02	2.91E-05	6.99E-02	1.34E+00
620	1.02E+01	8.85E+01	1.90E-02	2.43E-05	7.73E-02	1.22E+00
630	1.10E+01	8.78E+01	1.68E-02	2.03E-05	8.53E-02	1.11E+00
640	1.19E+01	8.70E+01	1.48E-02	1.70E-05	9.41E-02	1.01E+00
650	1.28E+01	8.61E+01	1.31E-02	1.42E-05	1.04E-01	9.16E-01
660	1.38E+01	8.52E+01	1.16E-02	1.18E-05	1.14E-01	8.32E-01
670	1.49E+01	8.42E+01	1.02E-02	9.87E-06	1.25E-01	7.56E-01
680	1.60E+01	8.32E+01	9.01E-03	8.23E-06	1.38E-01	6.86E-01
690	1.72E+01	8.20E+01	7.94E-03	6.86E-06	1.51E-01	6.22E-01
700	1.84E+01	8.09E+01	6.99E-03	5.71E-06	1.65E-01	5.63E-01
710	1.97E+01	7.96E+01	6.16E-03	4.75E-06	1.81E-01	5.10E-01
720	2.11E+01	7.83E+01	5.42E-03	3.95E-06	1.97E-01	4.61E-01
730	2.25E+01	7.69E+01	4.76E-03	3.29E-06	2.15E-01	4.17E-01
740	2.40E+01	7.54E+01	4.18E-03	2.73E-06	2.34E-01	3.76E-01
750	2.55E+01	7.39E+01	3.66E-03	2.27E-06	2.54E-01	3.39E-01
760	2.71E+01	7.23E+01	3.21E-03	1.88E-06	2.76E-01	3.05E-01
770	2.88E+01	7.06E+01	2.81E-03	1.56E-06	2.99E-01	2.75E-01
780	3.05E+01	6.89E+01	2.46E-03	1.29E-06	3.23E-01	2.47E-01
790	3.23E+01	6.72E+01	2.15E-03	1.07E-06	3.49E-01	2.22E-01
800	3.41E+01	6.54E+01	1.87E-03	8.80E-07	3.76E-01	1.99E-01

D-266; LAT-40; LON-45; LT-12; F-200; FAV-200; A_p-3; UT1-9

80	5.41E-04	1.35E-03	2.08E+01	8.79E-01	1.41E-05	7.84E+01
90	6.07E-04	3.50E-01	2.01E+01	8.29E-01	8.85E-05	7.87E+01
100	9.58E-04	3.99E+00	1.74E+01	6.83E-01	1.37E-04	7.79E+01
110	2.26E-03	1.19E+01	1.22E+01	4.46E-01	2.76E-04	7.54E+01
120	4.69E-03	2.02E+01	7.70E+00	2.85E-01	3.75E-04	7.18E+01
130	9.36E-03	2.61E+01	5.55E+00	1.99E-01	3.67E-04	6.81E+01
140	1.68E-02	3.09E+01	4.54E+00	1.43E-01	3.44E-04	6.43E+01
150	2.53E-02	3.55E+01	3.93E+00	1.05E-01	3.34E-04	6.05E+01
160	3.54E-02	3.98E+01	3.46E+00	7.99E-02	3.43E-04	5.66E+01
170	4.77E-02	4.40E+01	3.03E+00	6.19E-02	3.71E-04	5.28E+01
180	6.21E-02	4.80E+01	2.70E+00	4.88E-02	4.18E-04	4.92E+01
190	7.95E-02	5.18E+01	2.39E+00	3.89E-02	4.88E-04	4.57E+01
200	9.91E-02	5.54E+01	2.12E+00	3.13E-02	5.78E-04	4.24E+01

z, км	He/S, %	O/S, %	Cl/S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	1.21E-01	5.87E+01	1.88E+00	2.54E-02	6.89E-04	3.92E+01
220	1.46E-01	6.18E+01	1.67E+00	2.07E-02	8.25E-04	3.63E+01
230	1.74E-01	6.47E+01	1.48E+00	1.70E-02	9.87E-04	3.36E+01
240	2.05E-01	6.74E+01	1.32E+00	1.40E-02	1.18E-03	3.10E+01
250	2.39E-01	7.00E+01	1.17E+00	1.15E-02	1.40E-03	2.86E+01
260	2.77E-01	7.23E+01	1.04E+00	9.50E-03	1.65E-03	2.64E+01
270	3.18E-01	7.44E+01	9.26E-01	7.85E-03	1.95E-03	2.43E+01
280	3.64E-01	7.64E+01	8.22E-01	6.50E-03	2.28E-03	2.24E+01
290	4.15E-01	7.82E+01	7.31E-01	5.38E-03	2.66E-03	2.06E+01
300	4.70E-01	7.99E+01	6.49E-01	4.46E-03	3.09E-03	1.90E+01
310	5.28E-01	8.16E+01	5.74E-01	3.68E-03	3.56E-03	1.73E+01
320	5.96E-01	8.30E+01	5.09E-01	3.05E-03	4.12E-03	1.59E+01
330	6.70E-01	8.43E+01	4.52E-01	2.53E-03	4.75E-03	1.46E+01
340	7.53E-01	8.55E+01	4.00E-01	2.10E-03	5.47E-03	1.34E+01
350	8.43E-01	8.65E+01	3.54E-01	1.73E-03	6.29E-03	1.23E+01
360	9.43E-01	8.75E+01	3.13E-01	1.44E-03	7.21E-03	1.12E+01
370	1.05E+00	8.84E+01	2.77E-01	1.19E-03	8.26E-03	1.02E+01
380	1.17E+00	8.92E+01	2.45E-01	9.82E-04	9.44E-03	9.36E+00
390	1.31E+00	8.99E+01	2.16E-01	8.12E-04	1.08E-02	8.54E+00
400	1.46E+00	9.06E+01	1.91E-01	6.70E-04	1.23E-02	7.79E+00
410	1.13E+00	8.88E+01	3.25E-01	8.72E-04	5.78E-03	9.76E+00
420	1.25E+00	8.95E+01	2.90E-01	7.32E-04	6.54E-03	8.97E+00
430	1.38E+00	9.01E+01	2.58E-01	6.14E-04	7.38E-03	8.25E+00
440	1.52E+00	9.07E+01	2.30E-01	5.14E-04	8.32E-03	7.58E+00
450	1.68E+00	9.12E+01	2.05E-01	4.31E-04	9.38E-03	6.95E+00
460	1.84E+00	9.16E+01	1.83E-01	3.61E-04	1.06E-02	6.38E+00
470	2.03E+00	9.19E+01	1.62E-01	3.03E-04	1.19E-02	5.85E+00
480	2.23E+00	9.22E+01	1.45E-01	2.54E-04	1.33E-02	5.37E+00
490	2.44E+00	9.25E+01	1.29E-01	2.13E-04	1.49E-02	4.92E+00
500	2.68E+00	9.27E+01	1.14E-01	1.78E-04	1.67E-02	4.51E+00
510	2.93E+00	9.28E+01	1.02E-01	1.49E-04	1.88E-02	4.13E+00
520	3.21E+00	9.29E+01	9.04E-02	1.25E-04	2.10E-02	3.78E+00
530	3.50E+00	9.29E+01	8.03E-02	1.05E-04	2.34E-02	3.46E+00
540	3.83E+00	9.29E+01	7.14E-02	8.77E-05	2.62E-02	3.17E+00
550	4.18E+00	9.28E+01	6.34E-02	7.35E-05	2.92E-02	2.90E+00
560	4.55E+00	9.27E+01	5.63E-02	6.16E-05	3.26E-02	2.65E+00
570	4.96E+00	9.25E+01	5.00E-02	5.16E-05	3.63E-02	2.42E+00
580	5.40E+00	9.23E+01	4.44E-02	4.32E-05	4.03E-02	2.21E+00
590	5.88E+00	9.20E+01	3.94E-02	3.62E-05	4.48E-02	2.02E+00
600	6.39E+00	9.17E+01	3.50E-02	3.03E-05	4.98E-02	1.85E+00
610	6.93E+00	9.13E+01	3.10E-02	2.54E-05	5.53E-02	1.69E+00
620	7.52E+00	9.08E+01	2.75E-02	2.12E-05	6.13E-02	1.54E+00
630	8.15E+00	9.03E+01	2.44E-02	1.78E-05	6.79E-02	1.41E+00
640	8.83E+00	8.98E+01	2.16E-02	1.49E-05	7.51E-02	1.28E+00
650	9.56E+00	8.92E+01	1.91E-02	1.24E-05	8.30E-02	1.17E+00
660	1.03E+01	8.85E+01	1.70E-02	1.04E-05	9.17E-02	1.06E+00
670	1.12E+01	8.78E+01	1.50E-02	8.70E-06	1.01E-01	9.70E-01
680	1.20E+01	8.70E+01	1.33E-02	7.28E-06	1.11E-01	8.82E-01
690	1.30E+01	8.61E+01	1.17E-02	6.08E-06	1.23E-01	8.03E-01
700	1.40E+01	8.52E+01	1.04E-02	5.08E-06	1.35E-01	7.30E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	1.50E+01	8.42E+01	9.17E-03	4.24E-06	1.48E-01	6.63E-01
720	1.61E+01	8.31E+01	8.09E-03	3.54E-06	1.62E-01	6.02E-01
730	1.73E+01	8.20E+01	7.14E-03	2.96E-06	1.78E-01	5.46E-01
740	1.85E+01	8.08E+01	6.30E-03	2.46E-06	1.95E-01	4.95E-01
750	1.98E+01	7.95E+01	5.55E-03	2.05E-06	2.12E-01	4.48E-01
760	2.12E+01	7.82E+01	4.88E-03	1.71E-06	2.32E-01	4.06E-01
770	2.26E+01	7.68E+01	4.29E-03	1.42E-06	2.52E-01	3.67E-01
780	2.41E+01	7.53E+01	3.77E-03	1.18E-06	2.75E-01	3.31E-01
790	2.56E+01	7.38E+01	3.31E-03	9.84E-07	2.98E-01	2.99E-01
800	2.72E+01	7.22E-01	2.90E-03	8.17E-07	3.23E-01	2.69E-01
D-266; LAT-80; LON-45; LT-12; F-200; FAV-200; A _p -100; UT1-9						
80	5.38E-04	1.07E-03	2.09E+01	9.61E-01	1.25E-05	7.82E+01
90	5.88E-04	2.68E-01	2.05E+01	9.59E-01	7.31E-05	7.83E+01
100	9.49E-04	2.99E+00	1.88E-01	8.50E-01	1.17E-04	7.74E+01
110	2.16E-03	8.14E+00	1.57E+01	6.77E-01	2.05E-04	7.55E+01
120	3.96E-03	1.27E+01	1.29E+01	5.52E-01	2.37E-04	7.38E+01
130	5.61E-03	1.61E+01	1.11E+01	4.70E-01	2.24E-04	7.23E+01
140	7.46E-03	1.87E+01	1.00E+01	4.10E-01	1.91E-04	7.09E+01
150	1.02E-02	2.09E+01	9.29E+00	3.61E-01	1.64E-04	6.95E+01
160	1.37E-02	2.29E+01	8.71E+00	3.18E-01	1.49E-04	6.80E+01
170	1.78E-02	2.49E+01	8.18E+00	2.80E-01	1.45E-04	6.66E+01
180	2.26E-02	2.69E+01	7.69E+00	2.46E-01	1.51E-04	6.52E+01
190	2.82E-02	2.88E+01	7.24E+00	2.16E-01	1.65E-04	6.37E+01
200	3.47E-02	3.08E+01	6.81E+00	1.90E-01	1.86E-04	6.21E+01
210	4.20E-02	3.29E+01	6.42E+00	1.67E-01	2.16E-04	6.05E+01
220	5.06E-02	3.50E+01	6.03E+00	1.47E-01	2.54E-04	5.88E+01
230	6.04E-02	3.71E+01	5.65E+00	1.29E-01	3.01E-04	5.70E+01
240	7.16E-02	3.93E+01	5.30E+00	1.13E-01	3.58E-04	5.52E+01
250	8.44E-02	4.15E+01	4.96E+00	9.98E-02	4.26E-04	5.34E+01
260	9.89E-02	4.37E+01	4.63E+00	8.75E-02	5.07E-04	5.15E+01
270	1.15E-01	4.60E+01	4.32E+00	7.66E-02	6.02E-04	4.95E+01
280	1.34E-01	4.83E+01	4.02E+00	6.69E-02	7.12E-04	4.75E+01
290	1.55E-01	5.05E+01	3.73E+00	5.84E-02	8.40E-04	4.55E+01
300	1.78E-01	5.28E+01	3.46E+00	5.10E-02	9.88E-04	4.35E+01
310	2.06E-01	5.47E+01	3.22E+00	4.47E-02	1.17E-03	4.18E+01
320	2.35E-01	5.70E+01	2.98E+00	3.88E-02	1.36E-03	3.98E+01
330	2.68E-01	5.92E+01	2.74E+00	3.37E-02	1.58E-03	3.78E+01
340	3.04E-01	6.14E+01	2.52E+00	2.91E-02	1.84E-03	3.58E+01
350	3.44E-01	6.35E+01	2.31E+00	2.52E-02	2.13E-03	3.39E+01
360	3.88E-01	6.55E+01	2.12E+00	2.18E-02	2.46E-03	3.20E+01
370	4.37E-01	6.75E+01	1.94E+00	1.88E-02	2.83E-03	3.01E+01
380	4.91E-01	6.94E+01	1.77E+00	1.62E-02	3.25E-03	2.84E+01
390	5.50E-01	7.12E+01	1.62E+00	1.39E-02	3.72E-03	2.66E+01
400	6.16E-01	7.29E+01	1.47E+00	1.20E-02	4.26E-03	2.50E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	Ne/S, %	N ₂ /S, %
410	6.87E-01	7.45E+01	1.34E+00	1.03E-02	4.86E-03	2.34E+01
420	7.65E-01	7.61E+01	1.22E+00	8.81E-03	5.53E-03	2.19E+01
430	8.51E-01	7.76E+01	1.11E+00	7.54E-03	6.28E-03	2.05E+01
440	9.45E-01	7.89E+01	1.00E+00	6.46E-03	7.13E-03	1.91E+01
450	1.05E+00	8.02E+01	9.09E-01	5.52E-03	8.07E-03	1.78E+01
460	1.16E+00	8.14E+01	8.22E-01	4.72E-03	9.12E-03	1.66E+01
470	1.28E+00	8.25E+01	7.44E-01	4.03E-03	1.03E-02	1.54E+01
480	1.41E+00	8.36E+01	6.72E-01	3.44E-03	1.16E-02	1.43E+01
490	1.55E+00	8.45E+01	6.06E-01	2.93E-03	1.30E-02	1.33E+01
500	1.71E+00	8.54E+01	5.47E-01	2.50E-03	1.47E-02	1.24E+01
510	1.88E+00	8.61E+01	4.93E-01	2.13E-03	1.64E-02	1.15E+01
520	2.06E+00	8.69E+01	4.44E-01	1.81E-03	1.84E-02	1.06E+01
530	2.26E+00	8.75E+01	4.00E-01	1.54E-03	2.06E-02	9.83E+00
540	2.47E+00	8.80E+01	3.60E-01	1.31E-03	2.30E-02	9.10E+00
550	2.70E+00	8.85E+01	3.24E-01	1.12E-03	2.57E-02	8.42E+00
560	2.95E+00	8.90E+01	2.91E-01	9.50E-04	2.87E-02	7.78E+00
570	3.22E+00	8.93E+01	2.61E-01	8.07E-04	3.20E-02	7.19E+00
580	3.51E+00	8.96E+01	2.35E-01	6.86E-04	3.56E-02	6.63E+00
590	3.82E+00	8.98E+01	2.11E-01	5.83E-04	3.95E-02	6.12E+00
600	4.15E+00	9.00E+01	1.89E-01	4.95E-04	4.39E-02	5.65E+00
610	4.51E+00	9.01E+01	1.70E-01	4.20E-04	4.87E-02	5.21E+00
620	4.90E+00	9.01E+01	1.52E-01	3.57E-04	5.40E-02	4.80E+00
630	5.32E+00	9.01E+01	1.36E-01	3.03E-04	5.98E-02	4.42E+00
640	5.77E+00	9.00E+01	1.22E-01	2.57E-04	6.61E-02	4.07E+00
650	6.24E+00	8.98E+01	1.09E-01	2.18E-04	7.31E-02	3.75E+00
660	6.76E+00	8.96E+01	9.80E-02	1.85E-04	8.07E-02	3.45E+00
670	7.30E+00	8.94E+01	8.77E-02	1.57E-04	8.90E-02	3.17E+00
680	7.89E+00	8.90E+01	7.85E-02	1.33E-04	9.81E-02	2.91E+00
690	8.51E+00	8.86E+01	7.02E-02	1.13E-04	1.08E-01	2.68E+00
700	9.17E+00	8.82E+01	6.28E-02	9.56E-05	1.19E-01	2.46E+00
710	9.88E+00	8.77E+01	5.61E-02	8.10E-05	1.31E-01	2.26E+00
720	1.06E+01	8.71E+01	5.01E-02	6.86E-05	1.43E-01	2.07E+00
730	1.14E+01	8.65E+01	4.48E-02	5.81E-05	1.57E-01	1.90E+00
740	1.23E+01	8.58E+01	3.99E-02	4.92E-05	1.72E-01	1.74E+00
750	1.32E+01	8.50E+01	3.56E-02	4.16E-05	1.88E-01	1.59E+00
760	1.41E+01	8.42E+01	3.18E-02	3.52E-05	2.06E-01	1.46E+00
770	1.51E+01	8.33E+01	2.83E-02	2.98E-05	2.25E-01	1.33E+00
780	1.61E+01	8.24E+01	2.52E-02	2.52E-05	2.45E-01	1.22E+00
790	1.72E+01	8.14E+01	2.24E-02	2.13E-05	2.67E-01	1.11E+00
800	1.84E+01	8.03E+01	1.99E-02	1.79E-05	2.90E-01	1.02E+00
D-266;						
LAT--40;						
LON-45;						
LT-12;						
F-200;						
FΔV-200;						
A _p -100;						
UT1-9						
80	5.44E-04	1.34E-03	2.08E+01	9.55E-01	1.35E-05	7.82E+01
90	6.08E-04	3.46E-01	2.04E+01	9.49E-01	8.12E-05	7.84E+01
100	9.46E-04	3.90E+00	1.83E+01	8.46E-01	1.18E-04	7.70E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.17E-03	1.15E+01	1.40E+01	6.17E-01	2.22E-04	7.39E+01
120	3.97E-03	1.86E+01	1.04E+01	4.74E-01	2.59E-04	7.05E+01
130	7.13E-03	2.39E+01	8.30E+00	3.87E-01	2.40E-04	6.74E+01
140	1.17E-02	2.81E+01	7.17E+00	3.24E-01	2.10E-04	6.44E+01
150	1.70E-02	3.20E+01	6.39E+00	2.71E-01	1.91E-04	6.13E+01
160	2.33E-02	3.58E+01	5.75E+00	2.26E-01	1.86E-04	5.82E+01
170	3.09E-02	3.95E+01	5.18E+00	1.87E-01	1.93E-04	5.51E+01
180	3.99E-02	4.31E+01	4.68E+00	1.56E-01	2.11E-04	5.20E+01
190	5.05E-02	4.66E+01	4.21E+00	1.29E-01	2.41E-04	4.90E+01
200	6.26E-02	4.99E+01	3.80E+00	1.08E-01	2.81E-04	4.61E+01
210	7.59E-02	5.31E+01	3.44E+00	8.99E-02	3.31E-04	4.33E+01
220	9.10E-02	5.61E+01	3.11E+00	7.55E-02	3.92E-04	4.06E+01
230	1.08E-01	5.89E+01	2.81E+00	6.35E-02	4.64E-04	3.81E+01
240	1.26E-01	6.16E+01	2.54E+00	5.35E-02	5.48E-04	3.57E+01
250	1.46E-01	6.41E+01	2.30E+00	4.53E-02	6.45E-04	3.34E+01
260	1.69E-01	6.64E+01	2.08E+00	3.84E-02	7.55E-04	3.13E+01
270	1.93E-01	6.86E+01	1.88E+00	3.25E-02	8.81E-04	2.93E+01
280	2.19E-01	7.07E+01	1.71E+00	2.76E-02	1.02E-03	2.74E+01
290	2.48E-01	7.26E+01	1.54E+00	2.35E-02	1.18E-03	2.55E+01
300	2.79E-01	7.45E+01	1.40E+00	2.00E-02	1.36E-03	2.38E+01
310	3.11E-01	7.63E+01	1.26E+00	1.70E-02	1.56E-03	2.22E+01
320	3.48E-01	7.78E+01	1.14E+00	1.44E-02	1.77E-03	2.07E+01
330	3.89E-01	7.93E+01	1.03E+00	1.23E-02	2.02E-03	1.92E+01
340	4.33E-01	8.07E+01	9.29E-01	1.05E-02	2.30E-03	1.79E+01
350	4.82E-01	8.20E+01	8.38E-01	8.88E-03	2.62E-03	1.66E+01
360	5.35E-01	8.33E+01	7.56E-01	7.55E-03	2.97E-03	1.54E+01
370	5.93E-01	8.44E+01	6.81E-01	6.41E-03	3.37E-03	1.43E+01
380	6.56E-01	8.54E+01	6.13E-01	5.44E-03	3.81E-03	1.33E+01
390	7.24E-01	8.64E+01	5.51E-01	4.61E-03	4.30E-03	1.23E+01
400	8.00E-01	8.73E+01	4.95E-01	3.91E-03	4.85E-03	1.14E+01
410	8.81E-01	8.81E+01	4.45E-01	3.31E-03	5.46E-03	1.05E+01
420	9.70E-01	8.89E+01	4.00E-01	2.81E-03	6.14E-03	9.74E+00
430	1.07E+00	8.96E+01	3.59E-01	2.38E-03	6.90E-03	9.00E+00
440	1.17E+00	9.02E+01	3.22E-01	2.02E-03	7.74E-03	8.31E+00
450	1.28E+00	9.07E+01	2.89E-01	1.71E-03	8.67E-03	7.67E+00
460	1.41E+00	9.12E+01	2.59E-01	1.45E-03	9.71E-03	7.08E+00
470	1.54E+00	9.17E+01	2.32E-01	1.23E-03	1.09E-02	6.53E+00
480	1.68E+00	9.21E+01	2.08E-01	1.04E-03	1.21E-02	6.02E+00
490	1.84E+00	9.24E+01	1.87E-01	8.79E-04	1.35E-02	5.55E+00
500	2.01E+00	9.27E+01	1.67E-01	7.45E-04	1.51E-02	5.12E+00
510	2.19E+00	9.29E+01	1.50E-01	6.31E-04	1.68E-02	4.72E+00
520	2.39E+00	9.31E+01	1.34E-01	5.34E-04	1.87E-02	4.34E+00
530	2.60E+00	9.33E+01	1.20E-01	4.52E-04	2.08E-02	4.00E+00
540	2.83E+00	9.34E+01	1.08E-01	3.83E-04	2.32E-02	3.68E+00
550	3.08E+00	9.34E+01	9.63E-02	3.24E-04	2.57E-02	3.39E+00
560	3.35E+00	9.34E+01	8.62E-02	2.75E-04	2.85E-02	3.12E+00
570	3.63E+00	9.34E+01	7.72E-02	2.33E-04	3.16E-02	2.87E+00
580	3.94E+00	9.33E+01	6.91E-02	1.97E-04	3.51E-02	2.64E+00
590	4.28E+00	9.32E+01	6.18E-02	1.67E-04	3.88E-02	2.43E+00
600	4.64E+00	9.30E+01	5.53E-02	1.41E-04	4.29E-02	2.23E+00

Продолжение табл. 24

z, km	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	5.02E+00	9.28E+01	4.95E-02	1.20E-04	4.75E-02	2.05E+00
620	5.43E+00	9.26E+01	4.42E-02	1.01E-04	5.24E-02	1.89E+00
630	5.88E+00	9.23E+01	3.96E-02	8.59E-05	5.79E-02	1.73E+00
640	6.35E+00	9.20E+01	3.54E-02	7.27E-05	6.38E-02	1.59E+00
650	6.86E+00	9.16E+01	3.16E-02	6.16E-05	7.03E-02	1.46E+00
660	7.40E+00	9.12E+01	2.83E-02	5.22E-05	7.74E-02	1.34E+00
670	7.98E+00	9.07E+01	2.53E-02	4.42E-05	8.52E-02	1.23E+00
680	8.60E+00	9.02E+01	2.26E-02	3.74E-05	9.36E-02	1.13E+00
690	9.25E+00	8.96E+01	2.01E-02	3.17E-05	1.03E-01	1.04E+00
700	9.95E+00	8.90E+01	1.80E-02	2.68E-05	1.13E-01	9.51E-01
710	1.07E+01	8.83E+01	1.61E-02	2.27E-05	1.24E-01	8.72E-01
720	1.15E+01	8.76E+01	1.43E-02	1.92E-05	1.35E-01	7.99E-01
730	1.23E+01	8.68E+01	1.28E-02	1.62E-05	1.48E-01	7.31E-01
740	1.32E+01	8.60E+01	1.14E-02	1.37E-05	1.62E-01	6.69E-01
750	1.41E+01	8.51E+01	1.01E-02	1.16E-05	1.77E-01	6.12E-01
760	1.51E+01	8.41E+01	9.03E-03	9.81E-06	1.93E-01	5.60E-01
770	1.62E+01	8.31E+01	8.04E-03	8.29E-06	2.10E-01	5.11E-01
780	1.72E+01	8.20E+01	7.15E-03	7.00E-06	2.29E-01	4.67E-01
790	1.84E+01	8.09E+01	6.36E-03	5.91E-06	2.49E-01	4.26E-01
800	1.96E+01	7.98E+01	5.65E-03	4.99E-06	2.70E-01	3.89E-01

D-266; LAT--80; LON-45; LT-12; F-200; FAV-200; A_p-100; UTI-9

80	5.48E-04	1.02E-03	2.09E+01	9.73E-01	1.38E-05	7.81E+01
90	6.00E-04	2.51E-01	2.07E+01	9.78E-01	8.25E-05	7.81E+01
100	9.43E-04	2.76E+00	1.94E+01	8.85E-01	1.26E-04	7.70E+01
110	2.21E-03	7.56E+00	1.70E+01	7.01E-01	2.40E-04	7.48E+01
120	3.96E-03	1.18E+01	1.49E+01	5.73E-01	3.07E-04	7.27E+01
130	4.35E-03	1.49E+01	1.35E+01	4.97E-01	3.05E-04	7.11E+01
140	4.91E-03	1.72E+01	1.25E+01	4.44E-01	2.73E-04	6.99E+01
150	6.56E-03	1.91E+01	1.17E+01	3.99E-01	2.44E-04	6.88E+01
160	8.77E-03	2.09E+01	1.10E+01	3.59E-01	2.28E-04	6.77E+01
170	1.14E-02	2.25E+01	1.04E+01	3.21E-01	2.27E-04	6.67E+01
180	1.45E-02	2.42E+01	9.88E+00	2.86E-01	2.39E-04	6.56E+01
190	1.80E-02	2.58E+01	9.38E+00	2.55E-01	2.63E-04	6.45E+01
200	2.20E-02	2.75E+01	8.90E+00	2.28E-01	2.98E-04	6.33E+01
210	2.66E-02	2.92E+01	8.46E+00	2.03E-01	3.46E-04	6.21E+01
220	3.19E-02	3.09E+01	8.03E+00	1.81E-01	4.05E-04	6.08E+01
230	3.79E-02	3.27E+01	7.61E+00	1.62E-01	4.78E-04	5.95E+01
240	4.47E-02	3.45E+01	7.21E+00	1.45E-01	5.65E-04	5.81E+01
250	5.23E-02	3.64E+01	6.83E+00	1.29E-01	6.67E-04	5.66E+01
260	6.09E-02	3.83E+01	6.45E+00	1.15E-01	7.87E-04	5.51E+01
270	7.05E-02	4.02E+01	6.09E+00	1.03E-01	9.26E-04	5.35E+01
280	8.13E-02	4.22E+01	5.75E+00	9.18E-02	1.09E-03	5.19E+01
290	9.33E-02	4.41E+01	5.41E+00	8.17E-02	1.27E-03	5.03E+01
300	1.07E-01	4.61E+01	5.09E+00	7.28E-02	1.48E-03	4.86E+01

z, км	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	N ₁ /S, %	N ₂ /S, %
310	1.23E-01	4.77E+01	4.82E+00	6.53E-02	1.74E-03	4.73E+01
320	1.39E-01	4.98E+01	4.51E+00	5.79E-02	2.01E-03	4.55E+01
330	1.57E-01	5.18E+01	4.22E+00	5.13E-02	2.31E-03	4.37E+01
340	1.77E-01	5.39E+01	3.95E+00	4.55E-02	2.66E-03	4.20E+01
350	1.99E-01	5.59E+01	3.68E+00	4.02E-02	3.05E-03	4.02E+01
360	2.24E-01	5.79E+01	3.43E+00	3.56E-02	3.49E-03	3.85E+01
370	2.50E-01	5.98E+01	3.19E+00	3.14E-02	3.98E-03	3.67E+01
380	2.79E-01	6.17E+01	2.97E+00	2.77E-02	4.53E-04	3.50E+01
390	3.11E-01	6.35E+01	2.75E+00	2.44E-02	5.15E-03	3.34E+01
400	3.46E-01	6.53E+01	2.55E+00	2.15E-02	5.84E-03	3.18E+01
410	3.84E-01	6.70E+01	2.36E+00	1.89E-02	6.60E-03	3.02E+01
420	4.25E-01	6.87E+01	2.19E+00	1.66E-02	7.45E-03	2.87E+01
430	4.70E-01	7.03E+01	2.02E+00	1.46E-02	8.40E-03	2.72E+01
440	5.18E-01	7.19E+01	1.87E+00	1.28E-02	9.44E-03	2.57E+01
450	5.71E-01	7.34E+01	1.72E+00	1.12E-02	1.06E-02	2.43E+01
460	6.28E-01	7.48E+01	1.59E+00	9.83E-03	1.19E-02	2.30E+01
470	6.90E-01	7.61E+01	1.46E+01	8.61E-03	1.33E-02	2.17E+01
480	7.56E-01	7.74E+01	1.34E+00	7.53E-03	1.49E-02	2.05E+01
490	8.28E-01	7.86E+01	1.23E+00	6.58E-03	1.66E-02	1.93E+01
500	9.06E-01	7.98E+01	1.13E+00	5.75E-03	1.85E-02	1.82E+01
510	9.89E-01	8.09E+01	1.04E+00	5.02E-03	2.06E-02	1.71E+01
520	1.08E+00	8.19E+01	9.54E-01	4.38E-03	2.28E-02	1.61E+01
530	1.18E+00	8.28E+01	8.74E-01	3.82E-03	2.53E-02	1.51E+01
540	1.28E+00	8.37E+01	8.01E-01	3.33E-03	2.81E-02	1.42E+01
550	1.39E+00	8.46E+01	7.33E-01	2.91E-03	3.11E-02	1.33E+01
560	1.51E+00	8.53E+01	6.71E-01	2.53E-03	3.44E-02	1.25E+01
570	1.64E+00	8.60E+01	6.13E-01	2.21E-03	3.80E-02	1.17E+01
580	1.78E+00	8.67E+01	5.61E-01	1.92E-03	4.20E-02	1.09E+01
590	1.92E+00	8.73E+01	5.12E-01	1.67E-03	4.63E-02	1.02E+01
600	2.08E+00	8.78E+01	4.68E-01	1.46E-03	5.10E-02	9.59E+00
610	2.25E+00	8.83E+01	4.27E-01	1.27E-03	5.61E-02	8.97E+00
620	2.43E+00	8.87E+01	3.90E-01	1.10E-03	6.17E-02	8.38E+00
630	2.62E+00	8.91E+01	3.56E-01	9.58E-04	6.78E-02	7.84E+00
640	2.83E+00	8.95E+01	3.25E-01	8.33E-04	7.44E-02	7.32E+00
650	3.05E+00	8.97E+01	2.96E-01	7.25E-04	8.17E-02	6.84E+00
660	3.28E+00	9.00E+01	2.70E-01	6.30E-04	8.95E-02	6.39E+00
670	3.53E+00	9.02E+01	2.46E-01	5.48E-04	9.80E-02	5.96E+00
680	3.79E+00	9.03E+01	2.24E-01	4.76E-04	1.07E-01	5.56E+00
690	4.08E+00	9.04E+01	2.04E-01	4.14E-04	1.17E-01	5.19E+00
700	4.38E+00	9.05E+01	1.86E-01	3.60E-04	1.28E-01	4.84E+00
710	4.69E+00	9.05E+01	1.70E-01	3.13E-04	1.40E-01	4.51E+00
720	5.03E+00	9.05E+01	1.54E-01	2.72E-04	1.53E-01	4.20E+00
730	5.39E+00	9.04E+01	1.41E-01	2.36E-04	1.67E-01	3.92E+00
740	5.78E+00	9.03E+01	1.28E-01	2.05E-04	1.81E-01	3.65E+00
750	6.18E+00	9.01E+01	1.16E-01	1.78E-04	1.98E-01	3.40E+00
760	6.61E+00	8.99E+01	1.06E-01	1.55E-04	2.15E-01	3.16E+00
770	7.06E+00	8.97E+01	9.63E-02	1.34E-04	2.34E-01	2.94E+00
780	7.54E+00	8.94E+01	8.76E-02	1.17E-04	2.54E-01	2.74E+00
790	8.05E+00	8.90E+01	7.96E-02	1.01E-04	2.76E-01	2.55E+00
800	8.58E+00	8.87E+01	7.24E-02	8.81E-05	2.99E-01	2.37E+00

Таблица 25

Суточные вариации состава при средней солнечной активности на средних широтах северного полушария (низкая магнитная активность)

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-172; LAT 40; LON-45; LT-6; F-150; FAV-150; A _p -3; UT1-3						
80	5.42E-04	1.15E-03	2.08E+01	9.03E-01	1.57E-05	7.83E+01
90	6.02E-04	2.90E-01	2.02E+01	8.67E-01	1.04E-01	7.86E+01
100	9.58E-04	3.23E+00	1.79E+01	7.38E-01	1.77E-04	7.81E+01
110	2.57E-03	9.68E+00	1.32E+01	5.00E-01	4.43E-04	7.66E+01
120	6.03E-03	1.68E+01	8.92E+00	3.27E-01	8.14E-04	7.39E+01
130	8.54E-03	2.25E+01	6.62E+00	2.27E-01	1.01E-03	7.07E+01
140	1.15E-02	2.71E+01	5.48E+00	1.65E-01	1.10E-03	6.72E+01
150	1.66E-02	3.13E+01	4.78E+00	1.24E-01	1.16E-03	6.38E+01
160	2.35E-02	3.52E+01	4.24E+00	9.60E-02	1.25E-03	6.04E+01
170	3.21E-02	3.90E+01	3.78E+00	7.54E-02	1.39E-03	5.71E+01
180	4.26E-02	4.27E+01	3.37E+00	6.00E-02	1.62E-03	5.38E+01
190	5.53E-02	4.64E+01	3.01E+00	4.80E-02	1.93E-03	5.05E+01
200	7.06E-02	5.00E+01	2.68E+00	3.86E-02	2.36E-03	4.73E+01
210	8.88E-02	5.34E+01	2.38E+00	3.11E-02	2.91E-03	4.41E+01
220	1.10E-01	5.68E+01	2.11E+00	2.50E-02	3.61E-03	4.09E+01
230	1.36E-01	6.01E+01	1.86E+00	2.01E-02	4.49E-03	3.79E+01
240	1.66E-01	6.33E+01	1.64E+00	1.61E-02	5.58E-03	3.49E+01
250	2.00E-01	6.63E+01	1.44E+00	1.29E-02	6.90E-03	3.20E+01
260	2.40E-01	6.92E+01	1.26E+00	1.04E-02	8.51E-03	2.93E+01
270	2.87E-01	7.18E+01	1.10E+00	8.27E-03	1.05E-02	2.67E+01
280	3.40E-01	7.44E+01	9.55E-01	6.58E-03	1.28E-02	2.43E+01
290	4.02E-01	7.67E+01	8.29E-01	5.23E-03	1.56E-02	2.20E+01
300	4.72E-01	7.89E+01	7.17E-01	4.15E-03	1.89E-02	1.99E+01
310	5.55E-01	8.07E+01	6.23E-01	3.31E-03	2.29E-02	1.81E+01
320	6.47E-01	8.25E+01	5.36E-01	2.61E-03	2.76E-02	1.62E+01
330	7.51E-01	8.42E+01	4.61E-01	2.06E-03	3.30E-02	1.46E+01
340	8.68E-01	8.57E+01	3.95E-01	1.62E-03	3.94E-02	1.30E+01
350	1.00E+00	8.70E+01	3.39E-01	1.28E-03	4.69E-02	1.17E+01
360	1.15E+00	8.81E+01	2.90E-01	1.00E-03	5.57E-02	1.04E+01
370	1.32E+00	8.91E+01	2.47E-01	7.87E-04	6.61E-02	9.26E+00
380	1.52E+00	8.99E+01	2.11E-01	6.18E-04	7.81E-02	8.24E+00
390	1.73E+00	9.07E+01	1.80E-01	4.84E-04	9.21E-02	7.33E+00
400	1.98E+00	9.13E+01	1.53E-01	3.79E-04	1.08E-01	6.51E+00
410	2.25E+00	9.17E+01	1.30E-01	2.97E-04	1.27E-01	5.77E+00
420	2.56E+00	9.21E+01	1.11E-01	2.32E-04	1.49E-01	5.12E+00
430	2.91E+00	9.23E+01	9.42E-02	1.82E-04	1.75E-01	4.53E+00
440	3.29E+00	9.24E+01	8.00E-02	1.42E-04	2.05E-01	4.01E+00
450	3.73E+00	9.24E+01	6.79E-02	1.11E-04	2.39E-01	3.54E+00
460	4.21E+00	9.23E+01	5.75E-02	8.68E-05	2.78E-01	3.13E+00
470	4.75E+00	9.21E+01	4.88E-02	6.78E-05	3.23E-01	2.76E+00
480	5.35E+00	9.18E+01	4.13E-02	5.29E-05	3.75E-01	2.44E+00
490	6.01E+00	9.14E+01	3.49E-02	4.13E-05	4.35E-01	2.15E+00
500	6.75E+00	9.08E+01	2.95E-02	3.22E-05	5.03E-01	1.89E+00

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	7.56E+00	9.02E+01	2.49E-02	2.51E-05	5.81E-01	1.66E+00
520	8.46E+00	8.94E+01	2.11E-02	1.95E-05	6.70E-01	1.46E+00
530	9.44E+00	8.85E+01	1.77E-02	1.52E-05	7.71E-01	1.28E+00
540	1.05E+01	8.75E+01	1.49E-02	1.18E-05	8.86E-01	1.12E+00
550	1.17E+01	8.63E+01	1.26E-02	9.17E-06	1.02E+00	9.84E-01
560	1.30E+01	8.50E+01	1.06E-02	7.11E-06	1.16E+00	8.60E-01
570	1.44E+01	8.35E+01	8.86E-03	5.51E-06	1.32E+00	7.50E-01
580	1.59E+01	8.19E+01	7.42E-03	4.26E-06	1.51E+00	6.54E-01
590	1.75E+01	8.02E+01	6.20E-03	3.29E-06	1.71E+00	5.68E-01
600	1.92E+01	7.83E+01	5.17E-03	2.54E-06	1.93E+00	4.93E-01
610	2.11E+01	7.63E+01	4.31E-03	1.96E-06	2.18E+00	4.27E-01
620	2.30E+01	7.41E+01	3.58E-03	1.50E-06	2.46E+00	3.69E-01
630	2.51E+01	7.18E+01	2.97E-03	1.15E-06	2.76E+00	3.18E-01
640	2.72E+01	6.94E+01	2.45E-03	8.82E-07	3.08E+00	2.74E-01
650	2.95E+01	6.69E+01	2.02E-03	6.73E-07	3.43E+00	2.35E-01
660	3.18E+01	6.42E+01	1.67E-03	5.13E-07	3.81E+00	2.01E-01
670	3.41E+01	6.15E+01	1.37E-03	3.89E-07	4.21E+00	1.71E-01
680	3.66E+01	5.87E+01	1.12E-03	2.95E-07	4.64E+00	1.45E-01
690	3.90E+01	5.58E+01	9.12E-04	2.23E-07	5.10E+00	1.23E-01
700	4.15E+01	5.29E+01	7.42E-04	1.68E-07	5.58E+00	1.04E-01
710	4.39E+01	4.99E+01	6.02E-04	1.26E-07	6.08E+00	8.78E-02
720	4.63E+01	4.70E+01	4.87E-04	9.46E-08	6.60E+00	7.37E-02
730	4.87E+01	4.41E+01	3.92E-04	7.07E-08	7.14E+00	6.18E-02
740	5.10E+01	4.12E+01	3.15E-04	5.27E-08	7.69E+00	5.16E-02
750	5.32E+01	3.85E+01	2.53E-04	3.92E-08	8.26E+00	4.29E-02
760	5.54E+01	3.57E+01	2.02E-04	2.91E-08	8.83E+00	3.56E-02
770	5.74E+01	3.31E+01	1.61E-04	2.15E-08	9.42E+00	2.95E-02
780	5.94E+01	3.06E+01	1.28E-04	1.59E-08	1.00E+01	2.44E-02
790	6.12E+01	2.82E+01	1.02E-04	1.17E-08	1.06E+01	2.01E-02
800	6.29E+01	2.59E+01	8.07E-05	8.61E-09	1.12E+01	1.65E-02

D-172; LAT-40; LON-45; LT-12; F-150; FAV-150; A_p-3; UT1-9

80	5.41E-04	1.16E-03	2.07E+01	8.97E-01	1.49E-05	7.84E+01
90	6.06E-04	2.94E-01	2.01E+01	8.56E-01	9.72E-05	7.88E+01
100	9.62E-04	3.30E+00	1.75E+01	7.24E-01	1.58E-04	7.85E-01
110	2.43E-03	9.85E+00	1.23E+01	4.93E-01	3.57E-04	7.74E+01
120	5.75E-03	1.76E+01	7.61E+00	3.08E-01	6.72E-04	7.44E+01
130	7.55E-03	2.36E+01	5.36E+00	2.10E-01	8.37E-04	7.08E+01
140	9.34E-03	2.81E+01	4.37E+00	1.53E-01	8.64E-04	6.73E+01
150	1.30E-02	3.20E+01	3.82E+00	1.16E-01	8.60E-04	6.41E+01
160	1.78E-02	3.55E+01	3.42E+00	9.14E-02	8.75E-04	6.10E+01
170	2.36E-02	3.89E+01	3.09E+00	7.34E-02	9.30E-04	5.79E+01
180	3.04E-02	4.21E+01	2.79E+00	5.98E-02	1.03E-03	5.50E+01
190	3.84E-02	4.53E+01	2.53E+00	4.92E-02	1.18E-03	5.21E+01
200	4.77E-02	4.84E+01	2.29E+00	4.06E-02	1.39E-03	4.92E+01

z, км	Hg/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	5.85E-02	5.14E+01	2.07E+00	3.37E-02	1.66E-03	4.64E+01
220	7.11E-02	5.44E+01	1.86E+00	2.79E-02	2.00E-03	4.36E+01
230	8.55E-02	5.73E+01	1.68E+00	2.31E-02	2.42E-03	4.09E+01
240	1.02E-01	6.02E+01	1.51E+00	1.92E-02	2.92E-03	3.82E+01
250	1.21E-01	6.29E+01	1.35E+00	1.59E-02	3.53E-03	3.56E+01
260	1.43E-01	6.55E+01	1.21E+00	1.31E-02	4.26E-03	3.31E+01
270	1.68E-01	6.81E+01	1.07E+00	1.08E-02	5.12E-03	3.07E+01
280	1.96E-01	7.05E+01	9.56E-01	8.90E-03	6.13E-03	2.84E+01
290	2.27E-01	7.28E+01	8.48E-01	7.31E-03	7.32E-03	2.61E+01
300	2.63E-01	7.49E+01	7.51E-01	6.00E-03	8.70E-03	2.40E+01
310	3.05E-01	7.68E+01	6.67E-01	4.94E-03	1.04E-02	2.22E+01
320	3.50E-01	7.87E+01	5.88E-01	4.04E-03	1.22E-02	2.03E+01
330	4.01E-01	8.05E+01	5.17E-01	3.30E-03	1.44E-02	1.85E+01
340	4.58E-01	8.22E+01	4.54E-01	2.69E-03	1.69E-02	1.69E+01
350	5.22E-01	8.37E+01	3.99E-01	2.19E-03	1.98E-02	1.54E+01
360	5.93E-01	8.50E+01	3.49E-01	1.78E-03	2.32E-02	1.40E+01
370	6.73E-01	8.63E+01	3.06E-01	1.45E-03	2.70E-02	1.27E+01
380	7.61E-01	8.74E+01	2.67E-01	1.17E-03	3.14E-02	1.15E+01
390	8.60E-01	8.84E+01	2.33E-01	9.52E-04	3.65E-02	1.04E+01
400	9.70E-01	8.93E+01	2.03E-01	7.72E-04	4.23E-02	9.46E+00
410	1.09E+00	9.01E+01	1.77E-01	6.26E-04	4.90E-02	8.55E+00
420	1.23E+00	9.08E+01	1.55E-01	5.07E-04	5.66E-02	7.73E+00
430	1.38E+00	9.14E+01	1.35E-01	4.10E-04	6.53E-02	6.98E+00
440	1.54E+00	9.20E+01	1.17E-01	3.32E-04	7.52E-02	6.29E+00
450	1.73E+00	9.24E+01	1.02E-01	2.69E-04	8.65E-02	5.68E+00
460	1.93E+00	9.28E+01	8.85E-02	2.17E-04	9.93E-02	5.11E+00
470	2.16E+00	9.30E+01	7.69E-02	1.76E-04	1.14E-01	4.61E+00
480	2.41E+00	9.32E+01	6.68E-02	1.42E-04	1.31E-01	4.15E+00
490	2.69E+00	9.34E+01	5.80E-02	1.15E-04	1.50E-01	3.73E+00
500	2.99E+00	9.34E+01	5.04E-02	9.30E-05	1.71E-01	3.36E+00
510	3.33E+00	9.34E+01	4.37E-02	7.52E-05	1.95E-01	3.02E+00
520	3.69E+00	9.33E+01	3.79E-02	6.07E-05	2.23E-01	2.71E+00
530	4.10E+00	9.32E+01	3.29E-02	4.91E-05	2.54E-01	2.44E+00
540	4.54E+00	9.30E+01	2.85E-02	3.97E-05	2.89E-01	2.19E+00
550	5.03E+00	9.27E+01	2.47E-02	3.20E-05	3.28E-01	1.96E+00
560	5.56E+00	9.23E+01	2.14E-02	2.59E-05	3.73E-01	1.76E+00
570	6.15E+00	9.18E+01	1.85E-02	2.09E-05	4.23E-01	1.58E+00
580	6.78E+00	9.13E+01	1.60E-02	1.69E-05	4.79E-01	1.41E+00
590	7.48E+00	9.07E+01	1.39E-02	1.36E-05	5.41E-01	1.27E+00
600	8.23E+00	9.00E+01	1.20E-02	1.10E-05	6.12E-01	1.13E+00
610	9.05E+00	8.92E+01	1.03E-02	8.85E-06	6.90E-01	1.01E+00
620	9.93E+00	8.84E+01	8.93E-03	7.14E-06	7.77E-01	9.04E-01
630	1.09E+01	8.74E+01	7.70E-03	5.75E-06	8.74E-01	8.07E-01
640	1.19E+01	8.64E+01	6.64E-03	4.63E-06	9.81E-01	7.20E-01
650	1.30E+01	8.52E+01	5.72E-03	3.72E-06	1.10E+00	6.41E-01
660	1.42E+01	8.40E+01	4.92E-03	2.99E-06	1.23E+00	5.71E-01
670	1.55E+01	8.26E+01	4.23E-03	2.40E-06	1.38E+00	5.08E-01
680	1.68E+01	8.12E+01	3.63E-03	1.93E-06	1.53E+00	4.51E-01
690	1.83E+01	7.96E+01	3.11E-03	1.55E-06	1.71E+00	4.00E-01
700	1.98E+01	7.80E+01	2.66E-03	1.24E-06	1.90E+00	3.54E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	2.14E+01	7.62E+01	2.28E-03	9.90E-07	2.10E+00	3.13E-01
720	2.30E+01	7.44E+01	1.94E-03	7.91E-07	2.32E+00	2.76E-01
730	2.48E+01	7.24E+01	1.66E-03	6.30E-07	2.56E+00	2.43E-01
740	2.66E+01	7.04E+01	1.41E-03	5.02E-07	2.82E+00	2.14E-01
750	2.85E+01	6.82E+01	1.20E-03	3.99E-07	3.09E+00	1.88E-01
760	3.04E+01	6.60E+01	1.02E-03	3.17E-07	3.39E+00	1.65E-01
770	3.24E+01	6.37E+01	8.60E-04	2.51E-07	3.70E+00	1.44E-01
780	3.45E+01	6.14E+01	7.26E-04	1.99E-07	4.03E+00	1.26E-01
790	3.65E+01	5.90E+01	6.12E-04	1.57E-07	4.38E+00	1.10E-01
800	3.86E+01	5.65E+01	5.15E-04	1.24E-07	4.74E+00	9.52E-02

D-172; LAT-40; LON-45; LT-18; F-150; FAV-150; A_p-3; UT1-15

80	5.42E-04	1.18E-03	2.08E+01	9.12E-01	1.49E-05	7.83E+01
90	6.02E-04	2.99E-01	2.02E+01	8.82E-01	9.56E-05	7.86E+01
100	9.58E-04	3.34E+00	1.78E+01	7.58E-01	1.58E-04	7.81E+01
110	2.54E-03	1.00E+01	1.28E+01	5.21E-01	3.82E-04	7.66E+01
120	5.56E-03	1.74E+01	8.44E+00	3.45E-01	6.69E-04	7.38E+01
130	6.39E-03	2.33E+01	6.15E+00	2.44E-01	7.95E-04	7.03E+01
140	7.48E-03	2.80E+01	5.05E+00	1.80E-01	8.24E-04	6.67E+01
150	1.05E-02	3.22E+01	4.40E+00	1.37E-01	8.33E-04	6.32E+01
160	1.46E-02	3.61E+01	3.91E+00	1.08E-01	8.63E-04	5.99E+01
170	1.97E-02	3.98E+01	3.50E+00	8.58E-02	9.33E-04	5.66E+01
180	2.57E-02	4.33E+01	3.14E+00	6.93E-02	1.05E-03	5.34E+01
190	3.29E-02	4.67E+01	2.82E+00	5.64E-02	1.22E-03	5.03E+01
200	4.13E-02	5.00E+01	2.53E+00	4.62E-02	1.45E-03	4.73E+01
210	5.09E-02	5.32E+01	2.28E+00	3.80E-02	1.74E-03	4.44E+01
220	6.21E-02	5.63E+01	2.04E+00	3.13E-02	2.10E-03	4.16E+01
230	7.50E-02	5.93E+01	1.83E+00	2.58E-02	2.55E-03	3.88E+01
240	8.97E-02	6.21E+01	1.64E+00	2.13E-02	3.09E-03	3.62E+01
250	1.06E-01	6.48E+01	1.46E+00	1.76E-02	3.73E-03	3.36E+01
260	1.25E-01	6.74E+01	1.30E+00	1.45E-02	4.49E-03	3.12E+01
270	1.47E-01	6.98E+01	1.16E+00	1.20E-02	5.38E-03	2.88E+01
280	1.71E-01	7.21E+01	1.03E+00	9.86E-03	6.43E-03	2.66E+01
290	1.98E-01	7.43E+01	9.17E-01	8.12E-03	7.64E-03	2.46E+01
300	2.28E-01	7.64E+01	8.13E-01	6.69E-03	9.05E-03	2.26E+01
310	2.63E-01	7.82E+01	7.23E-01	5.52E-03	1.07E-02	2.08E+01
320	3.00E-01	7.99E+01	6.39E-01	4.53E-03	1.26E-02	1.91E+01
330	3.42E-01	8.16E+01	5.64E-01	3.72E-03	1.47E-02	1.75E+01
340	3.89E-01	8.31E+01	4.97E-01	3.05E-03	1.72E-02	1.60E+01
350	4.41E-01	8.45E+01	4.38E-01	2.50E-03	2.00E-02	1.46E+01
360	4.99E-01	8.58E+01	3.85E-01	2.05E-03	2.33E-02	1.33E+01
370	5.63E-01	8.69E+01	3.39E-01	1.68E-03	2.69E-02	1.21E+01
380	6.34E-01	8.80E+01	2.98E-01	1.37E-03	3.12E-02	1.10E+01
390	7.12E-01	8.90E+01	2.61E-01	1.13E-03	3.60E-02	1.00E+01
400	7.99E-01	8.98E+01	2.29E-01	9.21E-04	4.14E-02	9.12E+00

Продолжение табл. 25

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	8.96E-01	9.06E+01	2.01E-01	7.53E-04	4.76E-02	8.28E+00
420	1.00E+00	9.12E+01	1.76E-01	6.16E-04	5.47E-02	7.52E+00
430	1.12E+00	9.18E+01	1.55E-01	5.03E-04	6.27E-02	6.82E+00
440	1.25E+00	9.24E+01	1.35E-01	4.12E-04	7.18E-02	6.19E+00
450	1.39E+00	9.28E+01	1.19E-01	3.36E-04	8.21E-02	5.61E+00
460	1.55E+00	9.32E+01	1.04E-01	2.75E-04	9.37E-02	5.08E+00
470	1.72E+00	9.35E+01	9.08E-02	2.25E-04	1.07E-01	4.60E+00
480	1.91E+00	9.37E+01	7.94E-02	1.84E-04	1.22E-01	4.16E+00
490	2.12E+00	9.39E+01	6.95E-02	1.50E-04	1.39E-01	3.77E+00
500	2.35E+00	9.40E+01	6.08E-02	1.23E-04	1.58E-01	3.41E+00
510	2.60E+00	9.41E+01	5.31E-02	1.00E-04	1.79E-01	3.08E+00
520	2.88E+00	9.41E+01	4.64E-02	8.20E-05	2.03E-01	2.79E+00
530	3.18E+00	9.40E+01	4.06E-02	6.70E-05	2.30E-01	2.52E+00
540	3.51E+00	9.39E+01	3.55E-02	5.48E-05	2.61E-01	2.28E+00
550	3.88E+00	9.37E+01	3.10E-02	4.48E-05	2.95E-01	2.06E+00
560	4.27E+00	9.35E+01	2.71E-02	3.66E-05	3.33E-01	1.86E+00
570	4.70E+00	9.32E+01	2.36E-02	2.99E-05	3.76E-01	1.67E+00
580	5.17E+00	9.29E+01	2.06E-02	2.44E-05	4.24E-01	1.51E+00
590	5.69E+00	9.25E+01	1.80E-02	2.00E-05	4.77E-01	1.36E+00
600	6.24E+00	9.20E+01	1.57E-02	1.63E-05	5.37E-01	1.23E+00
610	6.84E+00	9.14E+01	1.37E-02	1.33E-05	6.04E-01	1.11E+00
620	7.50E+00	9.08E+01	1.19E-02	1.09E-05	6.78E-01	9.97E-01
630	8.20E+00	9.01E+01	1.04E-02	8.88E-06	7.60E-01	8.98E-01
640	8.97E+00	8.94E+01	9.06E-03	7.25E-06	8.51E-01	8.07E-01
650	9.79E+00	8.85E+01	7.89E-03	5.91E-06	9.52E-01	7.26E-01
660	1.07E+01	8.76E+01	6.86E-03	4.82E-06	1.06E+00	6.52E-01
670	1.16E+01	8.66E+01	5.96E-03	3.93E-06	1.19E+00	5.85E-01
680	1.26E+01	8.55E+01	5.18E-03	3.20E-06	1.32E+00	5.25E-01
690	1.37E+01	8.43E+01	4.49E-03	2.61E-06	1.47E+00	4.70E-01
700	1.49E+01	8.31E+01	3.90E-03	2.12E-06	1.63E+00	4.21E-01
710	1.61E+01	8.17E+01	3.38E-03	1.72E-06	1.81E+00	3.76E-01
720	1.74E+01	8.03E+01	2.92E-03	1.40E-06	2.00E+00	3.36E-01
730	1.87E+01	7.87E+01	2.52E-03	1.14E-06	2.21E+00	3.00E-01
740	2.02E+01	7.71E+01	2.18E-03	9.20E-07	2.43E+00	2.67E-01
750	2.17E+01	7.54E+01	1.88E-03	7.45E-07	2.68E+00	2.38E-01
760	2.32E+01	7.36E+01	1.62E-03	6.03E-07	2.94E+00	2.11E-01
770	2.49E+01	7.17E+01	1.39E-03	4.87E-07	3.22E+00	1.87E-01
780	2.66E+01	6.97E+01	1.19E-03	3.93E-07	3.52E+00	1.66E-01
790	2.83E+01	6.77E+01	1.02E-03	3.16E-07	3.84E+00	1.47E-01
800	3.01E+01	6.56E+01	8.76E-04	2.54E-07	4.18E+00	1.30E-01
D-172; LAT-40; LON-45; LT-24; F-150; FAV-150; A _p -3; UT1-21						
80	5.41E-04	1.12E-03	2.07E+01	8.97E-01	1.51E-05	7.84E+01
90	6.06E-04	2.81E-01	2.01E+01	8.57E-01	9.89E-05	7.88E+01
100	9.63E-04	3.14E+00	1.75E+01	7.26E-01	1.62E-04	7.86E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.44E-03	9.40E+00	1.24E+01	4.94E-01	3.74E-04	7.77E+01
120	5.80E-03	1.70E+01	7.63E+00	3.04E-01	7.41E-04	7.50E+01
130	6.99E-03	2.29E+01	5.37E+00	2.06E-01	9.52E-04	7.15E+01
140	8.16E-03	2.75E+01	4.37E+00	1.48E-01	1.01E-03	6.80E+01
150	1.14E-02	3.14E+01	3.80E+00	1.11E-01	1.03E-03	6.46E+01
160	1.58E-02	3.52E+01	3.37E+00	8.61E-02	1.08E-03	6.14E+01
170	2.14E-02	3.88E+01	3.02E+00	6.78E-02	1.18E-03	5.81E+01
180	2.83E-02	4.23E+01	2.70E+00	5.40E-02	1.35E-03	5.49E+01
190	3.67E-02	4.59E+01	2.41E+00	4.32E-02	1.60E-03	5.16E+01
200	4.69E-02	4.94E+01	2.15E+00	3.46E-02	1.94E-03	4.83E+01
210	5.91E-02	5.29E+01	1.91E+00	2.78E-02	2.10E-03	4.51E+01
220	7.39E-02	5.64E+01	1.68E+00	2.22E-02	2.99E-03	4.18E+01
230	9.15E-02	5.98E+01	1.48E+00	1.78E-02	3.75E-03	3.86E+01
240	1.12E-01	6.30E+01	1.30E+00	1.41E-02	4.69E-03	3.55E+01
250	1.37E-01	6.62E+01	1.13E+00	1.12E-02	5.87E-03	3.25E+01
260	1.66E-01	6.92E+01	9.85E-01	8.87E-03	7.32E-03	2.96E+01
270	2.00E-01	7.20E+01	8.53E-01	6.98E-03	9.09E-03	2.69E+01
280	2.40E-01	7.47E+01	7.36E-01	5.48E-03	1.13E-02	2.43E+01
290	2.86E-01	7.72E+01	5.42E-01	4.29E-03	1.39E-02	2.19E+01
300	3.40E-01	7.95E+01	6.32E-01	3.35E-03	1.70E-02	1.96E+01
310	4.05E-01	8.14E+01	4.66E-01	2.63E-03	2.10E-02	1.77E+01
320	4.77E-01	8.33E+01	3.97E-01	2.04E-03	2.55E-02	1.58E+01
330	5.59E-01	8.50E+01	3.37E-01	1.58E-03	3.10E-02	1.40E+01
340	6.53E-01	8.66E+01	2.85E-01	1.22E-03	3.75E-02	1.25E+01
350	7.61E-01	8.79E+01	2.41E-01	9.42E-04	4.52E-02	1.10E+01
360	8.84E-01	8.91E+01	2.04E-01	7.26E-04	5.43E-02	9.74E+00
370	1.03E+00	9.01E+01	1.72E-01	5.59E-04	6.52E-02	8.60E+00
380	1.19E+00	9.10E+01	1.45E-01	4.30E-04	7.80E-02	7.58E+00
390	1.37E+00	9.17E+01	1.22E-01	3.30E-04	9.32E-02	6.67E+00
400	1.58E+00	9.23E+01	1.02E-01	2.54E-04	1.11E-01	5.86E+00
410	1.82E+00	9.28E+01	8.59E-02	1.95E-04	1.32E-01	5.15E+00
420	2.08E+00	9.32E+01	7.21E-02	1.49E-04	1.57E-01	4.52E+00
430	2.39E+00	9.34E+01	6.04E-02	1.14E-04	1.86E-01	3.96E+00
440	2.73E+00	9.35E+01	5.06E-02	8.77E-05	2.20E-01	3.47E+00
450	3.12E+00	9.35E+01	4.24E-02	6.72E-05	2.60E-01	3.04E+00
460	3.56E+00	9.34E+01	3.55E-02	5.15E-05	3.07E-01	2.66E+00
470	4.06E+00	9.32E+01	2.97E-02	3.94E-05	3.61E-01	2.32E+00
480	4.62E+00	9.29E+01	2.48E-02	3.02E-05	4.24E-01	2.03E+00
490	5.24E+00	9.25E+01	2.07E-02	2.31E-05	4.98E-01	1.77E+00
500	5.94E+00	9.19E+01	1.73E-02	1.76E-05	5.83E-01	1.54E+00
510	6.73E+00	9.12E+01	1.44E-02	1.35E-05	6.82E-01	1.34E+00
520	7.60E+00	9.04E+01	1.20E-02	1.03E-05	7.96E-01	1.17E+00
530	8.56E+00	8.95E+01	9.97E-03	7.84E-06	9.27E-01	1.01E+00
540	9.63E+00	8.84E+01	8.29E-03	5.97E-06	1.08E+00	8.83E-01
550	1.08E+01	8.72E+01	6.88E-03	4.55E-06	1.25E+00	7.63E-01
560	1.21E+01	8.58E+01	5.70E-03	3.46E-06	1.44E+00	6.60E-01
570	1.35E+01	8.42E+01	4.71E-03	2.62E-06	1.67E+00	5.70E-01
580	1.51E+01	8.25E+01	3.89E-03	1.99E-06	1.92E+00	4.91E-01
590	1.67E+01	8.07E+01	3.21E-03	1.51E-06	2.20E+00	4.22E-01
600	1.85E+01	7.86E+01	2.64E-03	1.14E-06	2.51E+00	3.62E-01

Продолжение табл. 25

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	2.04E+01	7.64E+01	2.16E-03	8.56E-07	2.86E+00	3.10E-01
620	2.25E+01	7.40E+01	1.77E-03	6.44E-07	3.25E+00	2.64E-01
630	2.46E+01	7.15E+01	1.44E-03	4.83E-07	3.67E+00	2.25E-01
640	2.69E+01	6.88E+01	1.17E-03	3.61E-07	4.14E+00	1.91E-01
650	2.92E+01	6.60E+01	9.52E-04	2.69E-07	4.64E+00	1.61E-01
660	3.17E+01	6.30E+01	7.69E-04	2.00E-07	5.19E+00	1.36E-01
670	3.41E+01	6.00E+01	6.19E-04	1.48E-07	5.77E+00	1.14E-01
680	3.67E+01	5.68E+01	4.97E-04	1.10E-07	6.40E+00	9.56E-02
690	3.92E+01	5.37E+01	3.98E-04	8.06E-08	7.05E+00	7.97E-02
700	4.17E+01	5.05E+01	3.17E-04	5.92E-08	7.75E+00	6.62E-02
710	4.42E+01	4.73E+01	2.52E-04	4.33E-08	8.47E+00	5.48E-02
720	4.67E+01	4.41E+01	1.99E-04	3.15E-08	9.21E+00	4.52E-02
730	4.90E+01	4.10E+01	1.57E-04	2.29E-08	9.98E+00	3.71E-02
740	5.13E+01	3.79E+01	1.24E-04	1.66E-08	1.08E+01	3.04E-02
750	5.35E+01	3.50E+01	9.68E-05	1.20E-08	1.16E+01	2.48E-02
760	5.55E+01	3.21E+01	7.56E-05	8.63E-09	1.24E+01	2.02E-02
770	5.74E+01	2.94E+01	5.88E-05	6.20E-09	1.32E+01	1.64E-02
780	5.91E+01	2.68E+01	4.57E-05	4.44E-09	1.40E+01	1.32E-02
790	6.07E+01	2.44E+01	3.54E-05	3.17E-09	1.48E+01	1.07E-02
800	6.22E+01	2.22E+01	2.74E-05	2.26E-09	1.57E+01	8.58E-03

Таблица 26

Суточные вариации состава при средней солнечной активности на средних широтах южного полушария (низкая магнитная активность)

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
80	5.45E-04	1.31E-03	2.08E+01	8.73E-01	1.71E-05	7.83E+01
90	6.05E-04	3.37E-01	2.04E+01	8.19E-01	1.15E-04	7.84E+01
100	9.52E-04	3.78E+00	1.84E+01	6.69E-01	1.97E-04	7.71E+01
110	2.62E-03	1.14E+01	1.42E+01	4.22E-01	5.07E-04	7.40E+01
120	8.16E-03	1.98E+01	1.02E+01	2.54E-01	9.81E-04	6.97E+01
130	2.79E-02	2.66E+01	7.91E+00	1.63E-01	1.26E-03	6.53E+01
140	6.75E-02	3.24E+01	6.56E+00	1.10E-01	1.43E-03	6.08E+01
150	1.09E-01	3.77E+01	5.61E+00	7.70E-02	1.56E-03	5.65E+01
160	1.55E-01	4.27E+01	4.84E+00	5.58E-02	1.74E-03	5.22E+01
170	2.12E-01	4.76E+01	4.18E+00	4.14E-02	2.00E-03	4.80E+01
180	2.81E-01	5.22E+01	3.69E+00	3.11E-02	2.37E-03	4.39E+01
190	3.64E-01	5.66E+01	3.09E+00	2.35E-02	2.88E-03	3.99E+01
200	4.65E-01	6.08E+01	2.64E+00	1.79E-02	3.56E-03	3.60E+01

D-172; LAT - -40; LON-45; LT-6; F-150; FAV-150; A_p-3; UT1-3

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	6.85E-01	6.47E+01	2.25E+00	1.36E-02	4.45E-03	3.24E+01
220	7.28E-01	6.83E+01	1.91E+00	1.03E-02	5.57E-03	2.90E+01
230	8.96E-01	7.17E+01	1.61E+00	7.81E-03	6.99E-03	2.58E+01
240	1.09E+00	7.46E+01	1.35E+00	5.90E-03	8.75E-03	2.29E+01
250	1.33E+00	7.73E+01	1.13E+00	4.45E-03	1.09E-02	2.02E+01
260	1.60E+00	7.97E+01	9.46E-01	3.35E-03	1.36E-02	1.78E+01
270	1.92E+00	8.17E+01	7.87E-01	2.51E-03	1.69E-02	1.56E+01
280	2.28E+00	8.34E+01	6.53E-01	1.88E-03	2.09E-02	1.36E+01
290	2.71E+00	8.49E+01	5.41E-01	1.40E-03	2.57E-02	1.19E+01
300	3.20E+00	8.60E+01	4.46E-01	1.05E-03	3.15E-02	1.03E+01
310	3.75E+00	8.69E+01	3.65E-01	7.75E-04	3.83E-02	8.90E+00
320	4.40E+00	8.76E+01	3.01E-01	5.76E-04	4.66E-02	7.70E+00
330	5.14E+00	8.79E+01	2.47E-01	4.27E-04	5.66E-02	6.64E+00
340	5.99E+00	8.80E+01	2.02E-01	3.16E-04	6.84E-02	5.72E+00
350	6.95E+00	8.79E+01	1.65E-01	2.34E-04	8.25E-02	4.91E+00
360	8.04E+00	8.75E+01	1.35E-01	1.72E-04	9.91E-02	4.21E+00
370	9.27E+00	8.69E+01	1.10E-01	1.27E-04	1.19E-01	3.60E+00
380	1.07E+01	8.60E+01	8.89E-02	9.32E-05	1.42E-01	3.07E+00
390	1.22E+01	8.49E+01	7.20E-02	6.83E-05	1.68E-01	2.61E+00
400	1.39E+01	8.36E+01	5.81E-02	5.00E-05	1.99E-01	2.22E+00
410	1.58E+01	8.20E+01	4.68E-02	3.65E-05	2.35E-01	1.88E+00
420	1.79E+01	8.02E+01	3.76E-02	2.66E-05	2.76E-01	1.58E+00
430	2.02E+01	7.81E+01	3.01E-02	1.93E-05	3.23E-01	1.33E+00
440	2.27E+01	7.57E+01	2.40E-02	1.40E-05	3.77E-01	1.11E+00
450	2.54E+01	7.32E+01	1.91E-02	1.01E-05	4.37E-01	9.31E-01
460	2.83E+01	7.04E+01	1.51E-02	7.24E-06	5.04E-01	7.74E-01
470	3.13E+01	6.74E+01	1.20E-02	5.19E-06	5.79E-01	6.41E-01
480	3.45E+01	6.43E+01	9.39E-03	3.70E-06	6.61E-01	5.29E-01
490	3.78E+01	6.10E+01	7.35E-03	2.63E-06	7.51E-01	4.34E-01
500	4.12E+01	5.76E+01	5.73E-03	1.86E-06	8.49E-01	3.55E-01
510	4.47E+01	5.41E+01	4.44E-03	1.31E-06	9.54E-01	2.89E-01
520	4.82E+01	5.05E+01	3.43E-03	9.22E-07	1.07E+00	2.34E-01
530	5.17E+01	4.70E+01	2.64E-03	6.44E-07	1.18E+00	1.89E-01
540	5.51E+01	4.34E+01	2.02E-03	4.49E-07	1.31E+00	1.51E-01
550	5.85E+01	4.00E+01	1.54E-03	3.11E-07	1.44E+00	1.21E-01
560	6.17E+01	3.66E+01	1.17E-03	2.15E-07	1.57E+00	9.62E-02
570	6.48E+01	3.34E+01	8.82E-04	1.48E-07	1.71E+00	7.62E-02
580	6.77E+01	3.04E+01	6.64E-04	1.01E-07	1.85E+00	6.01E-02
590	7.05E+01	2.75E+01	4.98E-04	6.92E-08	2.00E+00	4.73E-02
600	7.31E+01	2.48E+01	3.73E-04	4.72E-08	2.14E+00	3.71E-02
610	7.54E+01	2.22E+01	2.78E-04	3.21E-08	2.29E+00	2.90E-02
620	7.76E+01	1.99E+01	2.07E-04	2.18E-08	2.44E+00	2.26E-02
630	7.96E+01	1.78E+01	1.54E-04	1.47E-08	2.59E+00	1.75E-02
640	8.14E+01	1.58E+01	1.14E-04	9.95E-09	2.74E+00	1.36E-02
650	8.30E+01	1.41E+01	8.41E-05	6.71E-09	2.90E+00	1.05E-02
660	8.45E+01	1.25E+01	6.21E-05	4.52E-09	3.05E+00	8.14E-03
670	8.57E+01	1.10E+01	4.58E-05	3.04E-09	3.20E+00	6.28E-03
680	8.69E+01	9.76E+00	3.37E-05	2.05E-09	3.36E+00	4.84E-03
690	8.79E+01	8.61E+00	2.48E-05	1.38E-09	3.51E+00	3.73E-03
700	8.87E+01	7.59E+00	1.83E-05	9.24E-10	3.67E+00	2.87E-03

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	8.95E+01	6.69E+00	1.34E-05	6.21E-10	3.83E+00	2.21E-03
720	9.01E+01	5.88E+00	9.87E-06	4.17E-10	3.99E+00	1.70E-03
730	9.07E+01	5.17E+00	7.25E-06	2.80E-10	4.15E+00	1.30E-03
740	9.11E+01	4.55E+00	5.33E-06	1.88E-10	4.32E+00	1.00E-03
750	9.15E+01	3.99E+00	3.91E-06	1.26E-10	4.48E+00	7.70E-04
760	9.18E+01	3.51E+00	2.88E-06	8.50E-11	4.65E+00	5.92E-04
770	9.21E+01	3.08E+00	2.11E-06	5.71E-11	4.82E+00	4.55E-04
780	9.23E+01	2.70E+00	1.55E-06	3.84E-11	4.99E+00	3.49E-04
790	9.25E+01	2.37E+00	1.14E-06	2.59E-11	5.17E+00	2.69E-04
800	9.26E+01	2.08E+00	8.41E-07	1.74E-11	5.35E+00	2.06E-04

D-172; LAT--40; EON-45; LT-12; F-150; FAV-150; A_p-3; UTI-9

80	5.44E-04	1.30E-03	2.08E+01	8.74E-01	1.55E-05	7.83E+01
90	6.09E-04	3.33E-01	2.03E+01	8.20E-01	1.02E-04	7.86E+01
100	9.56E-04	3.75E+00	1.80E+01	6.73E-01	1.63E-04	7.76E+01
110	2.48E-03	1.12E+01	1.33E+01	4.35E-01	3.72E-04	7.51E+01
120	7.20E-03	1.98E+01	8.86E+00	2.59E-01	6.79E-04	7.11E+01
130	2.03E-02	2.68E+01	6.49E+00	1.65E-01	8.52E-04	6.65E+01
140	4.26E-02	3.26E+01	5.28E+00	1.12E-01	9.14E-04	6.20E+01
150	6.64E-02	3.76E+01	4.51E+00	7.92E-02	9.45E-04	5.77E+01
160	9.37E-02	4.23E+01	3.92E+00	5.85E-02	9.97E-04	5.36E+01
170	1.26E-01	4.67E+01	3.43E+00	4.44E-02	1.09E-03	4.97E+01
180	1.64E-01	5.08E+01	3.01E+00	3.43E-02	1.24E-03	4.60E+01
190	2.09E-01	5.48E+01	2.63E+00	2.68E-02	1.44E-03	4.24E+01
200	2.62E-01	5.85E+01	2.30E+00	2.12E-02	1.72E-03	3.89E+01
210	3.23E-01	6.20E+01	2.01E+00	1.68E-02	2.08E-03	3.57E+01
220	3.93E-01	6.52E+01	1.76E+00	1.33E-02	2.52E-03	3.26E+01
230	4.74E-01	6.83E+01	1.53E+00	1.05E-02	3.07E-03	2.97E+01
240	5.67E-01	7.11E+01	1.33E+00	8.38E-03	3.73E-03	2.70E+01
250	6.73E-01	7.37E+01	1.15E+00	6.65E-03	4.53E-03	2.45E+01
260	7.93E-01	7.61E+01	9.98E-01	5.28E-03	5.48E-03	2.21E+01
270	9.30E-01	7.82E+01	8.63E-01	4.18E-03	6.60E-03	2.00E+01
280	1.09E+00	8.02E+01	7.44E-01	3.31E-03	7.93E-03	1.80E+01
290	1.26E+00	8.19E+01	6.41E-01	2.62E-03	9.50E-03	1.62E+01
300	1.46E+00	8.35E+01	5.52E-01	2.07E-03	1.13E-02	1.45E+01
310	1.68E+00	8.49E+01	4.73E-01	1.63E-03	1.34E-02	1.30E+01
320	1.93E+00	8.60E+01	4.06E-01	1.29E-03	1.59E-02	1.16E+01
330	2.21E+00	8.70E+01	3.48E-01	1.02E-03	1.88E-02	1.04E+01
340	2.53E+00	8.79E+01	2.98E-01	8.03E-04	2.22E-02	9.25E+00
350	2.89E+00	8.86E+01	2.55E-01	6.32E-04	2.61E-02	8.25E+00
360	3.29E+00	8.91E+01	2.18E-01	4.97E-04	3.07E-02	7.34E+00
370	3.73E+00	8.95E+01	1.86E-01	3.91E-04	3.59E-02	6.52E+00
380	4.23E+00	8.98E+01	1.58E-01	3.08E-04	4.20E-02	5.79E+00
390	4.78E+00	8.99E+01	1.35E-01	2.42E-04	4.89E-02	5.13E+00
400	5.40E+00	8.99E+01	1.15E-01	1.90E-04	5.69E-02	4.55E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	6.08E+00	8.97E+01	9.75E-02	1.49E-04	6.60E-02	4.03E+00
420	6.84E+00	8.94E+01	8.28E-02	1.17E-04	7.65E-02	3.56E+00
430	7.67E+00	8.90E+01	7.02E-02	9.13E-05	8.85E-02	3.14E+00
440	8.59E+00	8.85E+01	5.95E-02	7.15E-05	1.02E-01	2.77E+00
450	9.60E+00	8.78E+01	5.04E-02	5.59E-05	1.18E-01	2.44E+00
460	1.07E+01	8.70E+01	4.26E-02	4.37E-05	1.35E-01	2.15E+00
470	1.19E+01	8.60E+01	3.60E-02	3.41E-05	1.55E-01	1.89E+00
480	1.32E+01	8.49E+01	3.04E-02	2.66E-05	1.77E-01	1.65E+00
490	1.47E+01	8.36E+01	2.56E-02	2.07E-05	2.02E-01	1.45E+00
500	1.62E+01	8.22E+01	2.15E-02	1.61E-05	2.30E-01	1.27E+00
510	1.79E+01	8.07E+01	1.81E-02	1.25E-05	2.61E-01	1.11E+00
520	1.97E+01	7.90E+01	1.51E-02	9.70E-06	2.96E-01	9.65E-01
530	2.16E+01	7.72E+01	1.27E-02	7.51E-06	3.35E-01	8.39E-01
540	2.37E+01	7.52E+01	1.06E-02	5.80E-06	3.77E-01	7.28E-01
550	2.58E+01	7.31E+01	8.81E-03	4.48E-06	4.23E-01	6.30E-01
560	2.81E+01	7.09E+01	7.33E-03	3.45E-06	4.74E-01	5.45E-01
570	3.04E+01	6.85E+01	6.08E-03	2.65E-06	5.29E-01	4.70E-01
580	3.29E+01	6.61E+01	5.03E-03	2.03E-06	5.88E-01	4.04E-01
590	3.55E+01	6.35E+01	4.15E-03	1.55E-06	6.52E-01	3.46E-01
600	3.81E+01	6.09E+01	3.42E-03	1.19E-06	7.21E-01	2.96E-01
610	4.08E+01	5.82E+01	2.81E-03	9.03E-07	7.94E-01	2.53E-01
620	4.35E+01	5.54E+01	2.30E-03	6.86E-07	8.71E-01	2.15E-01
630	4.62E+01	5.26E+01	1.88E-03	5.20E-07	9.53E-01	1.82E-01
640	4.90E+01	4.98E+01	1.53E-03	3.93E-07	1.04E+00	1.54E-01
650	5.17E+01	4.70E+01	1.24E-03	2.96E-07	1.13E+00	1.30E-01
660	5.44E+01	4.42E+01	1.01E-03	2.23E-07	1.22E+00	1.09E-01
670	5.71E+01	4.15E+01	8.15E-04	1.67E-07	1.32E+00	9.18E-02
680	5.97E+01	3.88E+01	6.57E-04	1.25E-07	1.41E+00	7.68E-02
690	6.22E+01	3.62E+01	5.29E-04	9.35E-08	1.52E+00	6.41E-02
700	6.46E+01	3.37E+01	4.24E-04	6.97E-08	1.62E+00	5.34E-02
710	6.70E+01	3.13E+01	3.40E-04	5.19E-08	1.72E+00	4.44E-02
720	6.92E+01	2.89E+01	2.72E-04	3.85E-08	1.83E+00	3.68E-02
730	7.13E+01	2.67E+01	2.17E-04	2.86E-08	1.94E+00	3.04E-02
740	7.33E+01	2.46E+01	1.73E-04	2.12E-08	2.05E+00	2.51E-02
750	7.52E+01	2.26E+01	1.37E-04	1.56E-08	2.16E+00	2.07E-02
760	7.69E+01	2.08E+01	1.09E-04	1.15E-08	2.27E+00	1.71E-02
770	7.86E+01	1.90E+01	8.64E-05	8.52E-09	2.38E+00	1.40E-02
780	8.01E+01	1.74E+01	6.84E-05	6.27E-09	2.50E+00	1.15E-02
790	8.15E+01	1.59E+01	5.41E-05	4.62E-09	2.61E+00	9.44E-03
800	8.28E+01	1.45E+01	4.27E-05	3.40E-09	2.72E+00	7.74E-03

D—172; LAT— —40; LON—45; LT—18; F—150; FΔV—150 A_p—3; UT1—15

80	5.45E-04	1.27E-03	2.08E+01	9.01E-01	1.58E-05	7.83E+01
90	6.05E-04	3.23E-01	2.04E+01	8.64E-01	1.03E-04	7.84E+01
100	9.52E-04	3.61E+00	1.83E+01	7.30E-01	1.68E-04	7.73E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.58E-03	1.09E+01	1.39E+01	4.84E-01	4.15E-04	7.47E+01
120	6.99E-03	1.89E+01	9.87E+00	3.09E-01	7.58E-04	7.09E+01
130	1.53E-02	2.54E+01	7.56E+00	2.11E-01	9.25E-04	6.68E+01
140	2.74E-02	3.09E+01	6.28E+00	1.50E-01	9.91E-04	6.27E+01
150	4.17E-02	3.57E+01	5.42E+00	1.11E-01	1.03E-03	5.87E+01
160	5.89E-02	4.03E+01	4.74E+00	8.43E-02	1.10E-03	5.48E+01
170	7.97E-02	4.46E+01	4.17E+00	6.52E-02	1.22E-03	5.11E+01
180	1.05E-01	4.87E+01	3.67E+00	5.10E-02	1.39E-03	4.75E+01
190	1.34E-01	5.27E+01	3.23E+00	4.03E-02	1.64E-03	4.39E+01
200	1.69E-01	5.64E+01	2.83E+00	3.20E-02	1.97E-03	4.06E+01
210	2.10E-01	6.00E+01	2.49E+00	2.54E-02	2.40E-03	3.73E+01
220	2.57E-01	6.33E+01	2.18E+00	2.03E-02	2.93E-03	3.42E+01
230	3.12E-01	6.65E+01	1.90E+00	1.61E-02	3.59E-03	3.13E+01
240	3.74E-01	6.94E+01	1.66E+00	1.29E-02	4.38E-03	2.86E+01
250	4.46E-01	7.21E+01	1.44E+00	1.03E-02	5.34E-03	2.60E+01
260	5.28E-01	7.46E+01	1.25E+00	8.16E-03	6.49E-03	2.36E+01
270	6.22E-01	7.69E+01	1.09E+00	6.49E-03	7.85E-03	2.14E+01
280	7.28E-01	7.90E+01	9.42E-01	5.16E-03	9.47E-03	1.93E+01
290	8.48E-01	8.09E+01	8.14E-01	4.10E-03	1.14E-02	1.74E+01
300	9.84E-01	8.26E+01	7.02E-01	3.25E-03	1.36E-02	1.57E+01
310	1.14E+00	8.42E+01	6.05E-01	2.57E-03	1.62E-02	1.41E+01
320	1.31E+00	8.55E+01	5.20E-01	2.04E-03	1.92E-02	1.26E+01
330	1.51E+00	8.67E+01	4.47E-01	1.61E-03	2.28E-02	1.13E+01
340	1.72E+00	8.78E+01	3.84E-01	1.28E-03	2.69E-02	1.01E+01
350	1.97E+00	8.86E+01	3.29E-01	1.01E-03	3.17E-02	9.03E+00
360	2.25E+00	8.94E+01	2.82E-01	7.96E-04	3.73E-02	8.06E+00
370	2.55E+00	9.00E+01	2.42E-01	6.28E-04	4.37E-02	7.18E+00
380	2.90E+00	9.04E+01	2.07E-01	4.96E-04	5.11E-02	6.40E+00
390	3.28E+00	9.08E+01	1.77E-01	3.91E-04	5.97E-02	5.69E+00
400	3.71E+00	9.10E+01	1.51E-01	3.08E-04	6.95E-02	5.06E+00
410	4.19E+00	9.11E+01	1.29E-01	2.43E-04	8.09E-02	4.49E+00
420	4.72E+00	9.11E+01	1.10E-01	1.91E-04	9.39E-02	3.99E+00
430	5.31E+00	9.10E+01	9.35E-02	1.50E-04	1.09E-01	3.53E+00
440	5.97E+00	9.07E+01	7.96E-02	1.18E-04	1.26E-01	3.13E+00
450	6.69E+00	9.03E+01	6.77E-02	9.30E-05	1.45E-01	2.77E+00
460	7.49E+00	8.98E+01	5.75E-02	7.31E-05	1.67E-01	2.45E+00
470	8.36E+00	8.92E+01	4.89E-02	5.74E-05	1.93E-01	2.16E+00
480	9.33E+00	8.85E+01	4.14E-02	4.50E-05	2.21E-01	1.91E+00
490	1.04E+01	8.76E+01	3.51E-02	3.53E-05	2.54E-01	1.68E+00
500	1.15E+01	8.67E+01	2.97E-02	2.77E-05	2.90E-01	1.48E+00
510	1.28E+01	8.56E+01	2.52E-02	2.16E-05	3.31E-01	1.30E+00
520	1.41E+01	8.43E+01	2.12E-02	1.69E-05	3.77E-01	1.14E+00
530	1.56E+01	8.29E+01	1.79E-02	1.32E-05	4.28E-01	1.00E+00
540	1.72E+01	8.14E+01	1.51E-02	1.03E-05	4.86E-01	8.75E-01
550	1.89E+01	7.98E+01	1.27E-02	8.03E-06	5.49E-01	7.65E-01
560	2.07E+01	7.80E+01	1.06E-02	6.25E-06	6.19E-01	6.67E-01
570	2.26E+01	7.61E+01	8.92E-03	4.85E-06	6.97E-01	5.80E-01
580	2.47E+01	7.40E+01	7.46E-03	3.76E-06	7.81E-01	5.04E-01
590	2.68E+01	7.18E+01	6.22E-03	2.91E-06	8.74E-01	4.37E-01
600	2.91E+01	6.95E+01	5.18E-03	2.25E-06	9.74E-01	3.77E-01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	3.14E+01	6.71E+01	4.30E-03	1.73E-06	1.08E+00	3.26E-01
620	3.39E+01	6.46E+01	3.57E-03	1.33E-06	1.20E+00	2.83E-01
630	3.64E+01	6.21E+01	2.95E-03	1.02E-06	1.33E+00	2.40E-01
640	3.89E+01	5.94E+01	2.43E-03	7.81E-07	1.46E+00	2.06E-01
650	4.15E+01	5.67E+01	2.00E-03	5.97E-07	1.60E+00	1.76E-01
660	4.42E+01	5.39E+01	1.64E-03	4.55E-07	1.75E+00	1.50E-01
670	4.68E+01	5.12E+01	1.34E-03	3.46E-07	1.91E+00	1.27E-01
680	4.94E+01	4.84E+01	1.10E-03	2.62E-07	2.07E+00	1.08E-01
690	5.20E+01	4.56E+01	8.93E-04	1.98E-07	2.24E+00	9.08E-02
700	5.46E+01	4.29E+01	7.25E-04	1.50E-07	2.42E+00	7.65E-02
710	5.71E+01	4.02E+01	5.87E-04	1.13E-07	2.60E+00	6.43E-02
720	5.96E+01	3.76E+01	4.75E-04	8.47E-08	2.78E+00	5.39E-02
730	6.19E+01	3.51E+01	3.83E-04	6.35E-08	2.97E+00	4.51E-02
740	6.42E+01	3.26E+01	3.08E-04	4.75E-08	3.17E+00	3.76E-02
750	6.64E+01	3.02E+01	2.47E-04	3.55E-08	3.36E+00	3.13E-02
760	6.84E+01	2.80E+01	1.98E-04	2.65E-08	3.56E+00	2.60E-02
770	7.04E+01	2.58E+01	1.58E-04	1.97E-08	3.76E+00	2.16E-02
780	7.22E+01	2.38E+01	1.27E-04	1.46E-08	3.97E+00	1.78E-02
790	7.39E+01	2.19E+01	1.01E-04	1.09E-08	4.17E+00	1.47E-02
800	7.55E+01	2.01E+01	8.03E-05	8.06E-09	4.38E+00	1.22E-02

D-172; LAT-40; LON-45; LT-24; F-150; FΔV-150; A_p-3; UT1-21

80	5.44E-04	1.25E-03	2.08E+01	8.75E-01	1.69E-05	7.83E+01
90	6.39E-04	3.19E-01	2.03E+01	8.21E-01	1.16E-04	7.86E+01
100	9.58E-04	3.58E+00	1.80E+01	6.75E-01	1.95E-04	7.78E+01
110	2.50E-03	1.07E+01	1.33E+01	4.36E-01	4.75E-04	7.55E+01
120	7.30E-03	1.91E+01	8.90E+00	2.58E-01	9.57E-04	7.17E+01
130	1.96E-02	2.61E+01	6.51E+00	1.63E-01	1.31E-03	6.72E+01
140	4.00E-02	3.18E+01	5.29E+00	1.09E-01	1.52E-03	6.27E+01
150	6.27E-02	3.69E+01	4.50E+00	7.68E-02	1.69E-03	5.84E+01
160	8.98E-02	4.17E+01	3.90E+00	5.61E-02	1.89E-03	5.42E+01
170	1.23E-01	4.62E+01	3.39E+00	4.20E-02	2.18E-03	5.02E+01
180	1.63E-01	5.06E+01	2.95E+00	3.20E-02	2.58E-03	4.63E+01
190	2.11E-01	5.48E+01	2.56E+00	2.46E-02	3.12E-03	4.24E+01
200	2.69E-01	5.87E+01	2.22E+00	1.90E-02	3.85E-03	3.88E+01
210	3.38E-01	6.25E+01	1.91E+00	1.47E-02	4.78E-03	3.52E+01
220	4.20E-01	6.60E+01	1.64E+00	1.14E-02	5.97E-03	3.19E+01
230	5.16E-01	6.93E+01	1.41E+00	8.79E-03	7.46E-03	2.88E+01
240	6.29E-01	7.23E+01	1.20E+00	6.79E-03	9.30E-03	2.58E+01
250	7.61E-01	7.51E+01	1.02E+00	5.23E-03	1.16E-02	2.31E+01
260	9.14E-01	7.76E+01	8.69E-01	4.02E-03	1.43E-02	2.06E+01
270	1.09E+00	7.98E+01	7.36E-01	3.08E-03	1.77E-02	1.83E+01
280	1.30E+00	8.18E+01	6.21E-01	2.36E-03	2.17E-02	1.62E+01
290	1.53E+00	8.36E+01	5.23E-01	1.80E-03	2.66E-02	1.43E+01
300	1.80E+00	8.51E+01	4.39E-01	1.38E-03	3.24E-02	1.26E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
310	2.12E+00	8.64E+01	3.68E-01	1.05E-03	3.94E-02	1.11E+01
320	2.47E+00	8.74E+01	3.08E-01	7.97E-04	4.77E-02	9.75E+00
330	2.88E+00	8.83E+01	2.57E-01	6.05E-04	5.75E-02	8.53E+00
340	3.35E+00	8.89E+01	2.14E-01	4.58E-04	6.92E-02	7.46E+00
350	3.88E+00	8.94E+01	1.78E-01	3.47E-04	8.30E-02	6.51E+00
360	4.48E+00	8.96E+01	1.48E-01	2.62E-04	9.94E-02	5.66E+00
370	5.16E+00	8.97E+01	1.23E-01	1.98E-04	1.19E-01	4.92E+00
380	5.93E+00	8.96E+01	1.02E-01	1.49E-04	1.41E-01	4.27E+00
390	6.79E+00	8.92E+01	8.41E-02	1.13E-04	1.68E-01	3.70E+00
400	7.77E+00	8.88E+01	6.95E-02	8.48E-05	1.98E-01	3.20E+00
410	8.86E+01	8.81E+01	5.73E-02	6.37E-05	2.34E-01	2.77E+00
420	1.01E+01	8.72E+01	4.71E-02	4.78E-05	2.76E-01	2.39E+00
430	1.14E+01	8.62E+01	3.87E-02	3.58E-05	3.24E-01	2.05E+00
440	1.29E+01	8.49E+01	3.18E-02	2.68E-05	3.79E-01	1.76E+00
450	1.46E+01	8.35E+01	2.60E-02	2.00E-05	4.42E-01	1.51E+00
460	1.64E+01	8.18E+01	2.12E-02	1.49E-05	5.14E-01	1.29E+00
470	1.83E+01	7.99E+01	1.73E-02	1.11E-05	5.96E-01	1.10E+00
480	2.05E+01	7.79E+01	1.41E-02	8.24E-06	6.88E-01	9.36E-01
490	2.28E+01	7.56E+01	1.14E-02	6.10E-06	7.92E-01	7.94E-01
500	2.52E+01	7.32E+01	9.21E-03	4.50E-06	9.07E-01	6.71E-01
510	2.78E+01	7.06E+01	7.42E-03	3.32E-06	1.04E+00	5.65E-01
520	3.06E+01	6.78E+01	5.95E-03	2.43E-06	1.18E+00	4.74E-01
530	3.35E+01	6.48E+01	4.76E-03	1.78E-06	1.33E+00	3.97E-01
540	3.64E+01	6.17E+01	3.80E-03	1.30E-06	1.50E+00	3.31E-01
550	3.95E+01	5.86E+01	3.01E-03	9.43E-07	1.68E+00	2.75E-01
560	4.26E+01	5.53E+01	2.38E-03	6.83E-07	1.87E+00	2.27E-01
570	4.57E+01	5.20E+01	1.88E-03	4.93E-07	2.08E+00	1.87E-01
580	4.89E+01	4.87E+01	1.47E-03	3.54E-07	2.29E+00	1.53E-01
590	5.20E+01	4.54E+01	1.15E-03	2.54E-07	2.52E+00	1.25E-01
600	5.50E+01	4.21E+01	8.99E-04	1.81E-07	2.76E+00	1.02E-01
610	5.80E+01	3.90E+01	6.97E-04	1.29E-07	3.00E+00	8.27E-02
620	6.08E+01	3.59E+01	5.40E-04	9.13E-08	3.26E+00	6.68E-02
630	6.35E+01	3.29E+01	4.16E-04	6.45E-08	3.52E+00	5.38E-02
640	6.61E+01	3.01E+01	3.20E-04	4.55E-08	3.78E+00	4.32E-02
650	6.85E+01	2.74E+01	2.45E-04	3.20E-08	4.05E+00	3.46E-02
660	7.08E+01	2.49E+01	1.87E-04	2.24E-08	4.32E+00	2.76E-02
670	7.29E+01	2.25E+01	1.43E-04	1.57E-08	4.59E+00	2.19E-02
680	7.48E+01	2.03E+01	1.09E-04	1.09E-08	4.86E+00	1.74E-02
690	7.66E+01	1.83E+01	8.24E-05	7.63E-09	5.14E+00	1.38E-02
700	7.81E+01	1.64E+01	6.24E-05	5.31E-09	5.42E+00	1.09E-02
710	7.96E+01	1.47E+01	4.72E-05	3.69E-09	5.69E+00	8.61E-03
720	8.08E+01	1.32E+01	3.57E-05	2.56E-09	5.97E+00	6.79E-03
730	8.20E+01	1.18E+01	2.69E-05	1.78E-09	6.25E+00	5.34E-03
740	8.30E+01	1.05E+01	2.03E-05	1.23E-09	6.53E+00	4.20E-03
750	8.38E+01	9.36E+00	1.53E-05	8.62E-10	6.81E+00	3.30E-03
760	8.46E+01	8.33E+00	1.15E-05	5.90E-10	7.09E+00	2.59E-03
770	8.52E+01	7.40E+00	8.66E-06	4.08E-10	7.37E+00	2.03E-03
780	8.58E+01	6.57E+00	6.51E-06	2.83E-10	7.65E+00	1.59E-03
790	8.62E+01	5.84E+00	4.90E-06	1.96E-10	7.93E+00	1.25E-03
800	8.66E+01	5.18E+00	3.68E-06	1.35E-10	8.22E+00	9.78E-04

Суточные вариации состава при средней солнечной активности на средних широтах северного полушария (высокая магнитная активность)

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
D-172; LAT-40; LON-45; LT-6; F-150; FAV-150; A _p -100; UT1-3						
80	5.43E-04	1.08E-03	2.08E+01	9.32E-01	1.41E-05	7.82E+01
90	6.01E-04	2.71E-01	2.04E+01	9.13E-01	8.73E-05	7.84E+01
100	9.53E-04	2.99E+00	1.84E+01	8.00E-01	1.39E-04	7.78E+01
110	2.50E-03	8.75E+00	1.44E+01	5.75E-01	3.15E-04	7.63E+01
120	5.20E-03	1.45E+01	1.07E+01	4.17E-01	4.87E-04	7.43E+01
130	5.99E-03	1.90E+01	8.60E+00	3.21E-01	5.20E-04	7.21E+01
140	7.08E-03	2.25E+01	7.44E+00	2.55E-01	5.02E-04	6.98E+01
150	9.87E-03	2.57E+01	6.68E+00	2.06E-01	4.82E-04	6.74E+01
160	1.37E-02	2.88E+01	6.08E+00	1.69E-01	4.83E-04	6.50E+01
170	1.86E-02	3.17E+01	5.55E+00	1.39E-01	5.11E-04	6.25E+01
180	2.45E-02	3.47E+01	5.08E+00	1.16E-01	5.70E-04	6.01E+01
190	3.16E-02	3.76E+01	4.64E+00	9.65E-02	6.60E-04	5.76E+01
200	4.01E-02	4.06E+01	4.24E+00	8.06E-02	7.87E-04	5.50E+01
210	5.02E-02	4.36E+01	3.87E+00	6.74E-02	9.55E-04	5.24E+01
220	6.21E-02	4.65E+01	3.52E+00	5.63E-02	1.17E-03	4.98E+01
230	7.62E-02	4.95E+01	3.20E+00	4.70E-02	1.44E-03	4.72E+01
240	9.26E-02	5.24E+01	2.90E+00	3.93E-02	1.77E-03	4.45E+01
250	1.12E-01	5.53E+01	2.62E+00	3.27E-02	2.17E-03	4.19E+01
260	1.34E-01	5.82E+01	2.36E+00	2.72E-02	2.65E-03	3.93E+01
270	1.59E-01	6.09E+01	2.12E+00	2.26E-02	3.23E-03	3.68E+01
280	1.88E-01	6.36E+01	1.90E+00	1.87E-02	3.93E-03	3.43E+01
290	2.21E-01	6.62E+01	1.70E+00	1.55E-02	4.74E-03	3.18E+01
300	2.59E-01	6.87E+01	1.51E+00	1.28E-02	5.71E-03	2.95E+01
310	3.04E-01	7.08E+01	1.36E+00	1.06E-02	6.90E-03	2.75E+01
320	3.53E-01	7.31E+01	1.20E+00	8.71E-03	8.22E-03	2.53E+01
330	4.07E-01	7.52E+01	1.06E+00	7.14E-03	9.76E-03	2.33E+01
340	4.68E-01	7.73E+01	9.40E-01	5.85E-03	1.15E-02	2.13E+01
350	5.37E-01	7.91E+01	8.28E-01	4.78E-03	1.36E-02	1.95E+01
360	6.15E-01	8.08E+01	7.28E-01	3.90E-03	1.60E-02	1.78E+01
370	7.01E-01	8.24E+01	6.39E-01	3.18E-03	1.88E-02	1.62E+01
380	7.98E-01	8.38E+01	5.61E-01	2.59E-03	2.20E-02	1.48E+01
390	9.05E-01	8.51E+01	4.91E-01	2.10E-03	2.57E-02	1.34E+01
400	1.03E+00	8.63E+01	4.30E-01	1.71E-03	2.99E-02	1.22E+01
410	1.16E+00	8.74E+01	3.75E-01	1.39E-03	3.47E-02	1.11E+01
420	1.31E+00	8.83E+01	3.28E-01	1.13E-03	4.03E-02	1.00E+01
430	1.47E+00	8.91E+01	2.86E-01	9.13E-04	4.66E-02	9.05E+00
440	1.66E+00	8.99E+01	2.49E-01	7.40E-04	5.39E-02	8.18E+00
450	1.86E+00	9.05E+01	2.17E-01	5.99E-04	6.22E-02	7.39E+00
460	2.09E+00	9.10E+01	1.89E-01	4.85E-04	7.16E-02	6.67E+00
470	2.33E+00	9.14E+01	1.64E-01	3.92E-04	8.24E-02	6.02E+00
480	2.61E+00	9.17E+01	1.43E-01	3.17E-04	9.46E-02	5.42E+00
490	2.91E+00	9.20E+01	1.24E-01	2.57E-04	1.08E-01	4.88E+00
500	3.25E+00	9.21E+01	1.08E-01	2.08E-04	1.24E-01	4.39E+00

Продолжение табл. 27

z, км	He/S, %	O ₁ /S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
510	3.62E+00	9.22E+01	9.34E-02	1.68E-04	1.42E-01	3.95E+00
520	4.02E+00	9.22E+01	8.11E-02	1.36E-04	1.62E-01	3.55E+00
530	4.47E+00	9.21E+01	7.03E-02	1.09E-04	1.85E-01	3.19E+00
540	4.96E+00	9.19E+01	6.09E-02	8.84E-05	2.11E-01	2.86E+00
550	5.50E+00	9.16E+01	5.28E-02	7.14E-05	2.41E-01	2.57E+00
560	6.08E+00	9.13E+01	4.57E-02	5.76E-05	2.73E-01	2.30E+00
570	6.72E+00	9.09E+01	3.95E-02	4.65E-05	3.10E-01	2.06E+00
580	7.42E+00	9.03E+01	3.42E-02	3.75E-05	3.51E-01	1.85E+00
590	8.18E+00	8.97E+01	2.95E-02	3.32E-05	3.97E-01	1.65E+00
600	9.01E+00	8.90E+01	2.55E-02	2.44E-05	4.49E-01	1.48E+00
610	9.91E+00	8.82E+01	2.20E-02	1.96E-05	5.06E-01	1.32E+00
620	1.09E+01	8.74E+01	1.90E-02	1.58E-05	5.70E-01	1.18E+00
630	1.19E+01	8.64E+01	1.64E-02	1.27E-05	6.42E-01	1.05E+00
640	1.30E+01	8.53E+01	1.41E-02	1.02E-05	7.20E-01	9.36E-01
650	1.43E+01	8.41E+01	1.21E-02	8.20E-06	8.07E-01	8.33E-01
660	1.55E+01	8.28E+01	1.04E-02	6.58E-06	9.03E-01	7.41E-01
670	1.69E+01	8.14E+01	8.93E-03	5.27E-06	1.01E+00	6.57E-01
680	1.84E+01	7.99E+01	7.65E-03	4.22E-06	1.12E+00	5.83E-01
690	1.99E+01	7.83E+01	6.55E-03	3.38E-06	1.25E+00	5.16E-01
700	2.16E+01	7.66E+01	5.60E-03	2.70E-06	1.39E+00	4.56E-01
710	2.33E+01	7.47E+01	4.78E-03	2.15E-06	1.54E+00	4.03E-01
720	2.51E+01	7.28E+01	4.07E-03	1.72E-06	1.70E+00	3.55E-01
730	2.70E+01	7.08E+01	3.46E-03	1.37E-06	1.87E+00	3.12E-01
740	2.89E+01	6.87E+01	2.94E-03	1.09E-06	2.06E+00	2.74E-01
750	3.10E+01	6.65E+01	2.49E-03	8.61E-07	2.26E+00	2.40E-01
760	3.30E+01	6.43E+01	2.11E-03	6.82E-07	2.47E+00	2.10E-01
770	3.52E+01	6.20E+01	1.78E-03	5.39E-07	2.69E+00	1.83E-01
780	3.73E+01	5.96E+01	1.50E-03	4.25E-07	2.93E+00	1.60E-01
790	3.95E+01	5.72E+01	1.26E-03	3.35E-07	3.18E+00	1.39E-01
800	4.17E+01	5.47E+01	1.06E-03	2.63E-07	3.44E+00	1.20E-01

D—172; LAT—40; LON—45; LT—12; F—150; FAV—150; A_p—100; UT1—9

80	5.42E-04	1.11E-03	2.08E+01	8.93E-01	1.38E-05	7.83E+01
90	6.05E-04	2.80E-01	2.02E+01	8.50E-01	8.66E-05	7.86E+01
100	9.58E-04	3.13E+00	1.79E+01	7.14E-01	1.35E-04	7.82E+01
110	2.34E-03	9.10E+00	1.34E+01	4.93E-01	2.76E-04	7.70E+01
120	4.93E-03	1.55E+01	9.19E+00	3.28E-01	4.35E-04	7.50E+01
130	5.80E-03	2.02E+01	6.99E+00	2.34E-01	4.77E-04	7.26E+01
140	6.75E-03	2.38E+01	5.94E+00	1.76E-01	4.51E-04	7.01E+01
150	9.18E-03	2.69E+01	5.33E+00	1.38E-01	4.19E-04	6.77E+01
160	1.24E-02	2.97E+01	4.87E+00	1.11E-01	4.05E-04	6.53E+01
170	1.63E-02	3.24E+01	4.48E+00	9.19E-02	4.14E-04	6.30E+01
180	2.09E-02	3.59E+01	4.14E+00	7.69E-02	4.45E-04	6.07E+01
190	2.62E-02	3.76E+01	3.82E+00	6.49E-02	4.99E-04	5.85E+01
200	3.25E-02	4.02E+01	3.52E+00	5.51E-02	5.77E-04	5.61E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
210	3.96E-02	4.29E+01	3.25E+00	4.70E-02	6.79E-04	5.38E+01
220	4.79E-02	4.55E+01	3.00E+00	4.01E-02	8.08E-04	5.15E+01
230	5.74E-02	4.81E+01	2.75E+00	3.42E-02	9.67E-04	4.91E+01
240	6.83E-02	5.07E+01	2.53E+00	2.92E-02	1.16E-03	4.67E+01
250	8.07E-02	5.32E+01	2.31E+00	2.49E-02	1.39E-03	4.43E+01
260	9.48E-02	5.58E+01	2.12E+00	2.12E-02	1.66E-03	4.20E+01
270	1.11E-01	5.83E+01	1.93E+00	1.80E-02	1.99E-03	3.97E+01
280	1.29E-01	6.07E+01	1.76E+00	1.53E-02	2.36E-03	3.74E+01
290	1.49E-01	6.31E+01	1.59E+00	1.30E-02	2.80E-03	3.51E+01
300	1.72E-01	6.54E+01	1.45E+00	1.10E-02	3.31E-03	3.30E+01
310	1.99E-01	6.74E+01	1.32E+00	9.34E-03	3.93E-03	3.10E+01
320	2.28E-01	6.96E+01	1.19E+00	7.87E-03	4.60E-03	2.90E+01
330	2.60E-01	7.17E+01	1.07E+00	6.62E-03	5.38E-03	2.70E+01
340	2.95E-01	7.37E+01	9.60E-01	5.57E-03	6.27E-03	2.51E+01
350	3.35E-01	7.55E+01	8.61E-01	4.67E-03	7.29E-03	2.32E+01
360	3.79E-01	7.73E+01	7.72E-01	3.92E-03	8.45E-03	2.15E+01
370	4.28E-01	7.90E+01	6.90E-01	3.28E-03	9.78E-03	1.99E+01
380	4.81E-01	8.05E+01	6.17E-01	2.74E-03	1.13E-02	1.84E+01
390	5.41E-01	8.19E+01	5.50E-01	2.29E-03	1.30E-02	1.70E+01
400	6.07E-01	8.33E+01	4.91E-01	1.91E-03	1.49E-02	1.56E+01
410	6.79E-01	8.45E+01	4.37E-01	1.60E-03	1.71E-02	1.44E+01
420	7.59E-01	8.56E+01	3.89E-01	1.33E-03	1.96E-02	1.32E+01
430	8.46E-01	8.67E+01	3.46E-01	1.11E-03	2.24E-02	1.21E+01
440	9.43E-01	8.76E+01	3.07E-01	9.22E-04	2.56E-02	1.11E+01
450	1.05E+00	8.85E+01	2.72E-01	7.68E-04	2.92E-02	1.02E+01
460	1.17E+00	8.92E+01	2.42E-01	6.38E-04	3.32E-02	9.34E+00
470	1.29E+00	8.99E+01	2.14E-01	5.31E-04	3.77E-02	8.55E+00
480	1.43E+00	9.05E+01	1.90E-01	4.41E-04	4.28E-02	7.82E+00
490	1.59E+00	9.10E+01	1.68E-01	3.67E-04	4.85E-02	7.15E+00
500	1.75E+00	9.15E+01	1.49E-01	3.05E-04	5.49E-02	6.53E+00
510	1.94E+00	9.19E+01	1.32E-01	2.53E-04	6.21E-02	5.97E+00
520	2.14E+00	9.22E+01	1.16E-01	2.10E-04	7.02E-02	5.45E+00
530	2.35E+00	9.25E+01	1.03E-01	1.74E-04	7.92E-02	4.97E+00
540	2.59E+00	9.27E+01	9.10E-02	1.45E-04	8.93E-02	4.53E+00
550	2.85E+00	9.28E+01	8.04E-02	1.20E-04	1.01E-01	4.13E+00
560	3.13E+00	9.29E+01	7.10E-02	9.97E-05	1.13E-01	3.77E+00
570	3.44E+00	9.29E+01	6.27E-02	8.28E-05	1.27E-01	3.43E+00
580	3.78E+00	9.29E+01	5.54E-02	6.87E-05	1.43E-01	3.13E+00
590	4.14E+00	9.28E+01	4.89E-02	5.70E-05	1.60E-01	2.85E+00
600	4.53E+00	9.27E+01	4.31E-02	4.73E-05	1.80E-01	2.59E+00
610	4.96E+00	9.24E+01	3.81E-02	3.92E-05	2.01E-01	2.36E+00
620	5.42E+00	9.22E+01	3.36E-02	3.25E-05	2.25E-01	2.14E+00
630	5.92E+00	9.18E+01	2.96E-02	2.70E-05	2.51E-01	1.95E+00
640	6.46E+00	9.15E+01	2.61E-02	2.24E-05	2.81E-01	1.77E+00
650	7.04E+00	9.10E+01	2.30E-02	1.86E-05	3.13E-01	1.61E+00
660	7.67E+00	9.05E+01	2.02E-02	1.54E-05	3.49E-01	1.46E+00
670	8.35E+00	8.99E+01	1.78E-02	1.27E-05	3.88E-01	1.32E+00
680	9.07E+00	8.93E+01	1.57E-02	1.06E-05	4.31E-01	1.20E+00
690	9.85E+00	8.86E+01	1.38E-02	8.75E-06	4.79E-01	1.09E+00
700	1.07E+01	8.78E+01	1.21E-02	7.24E-06	5.31E-01	9.87E-01

Продолжение табл. 27

z , км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	1.16E+01	8.69E+01	1.07E-02	6.00E-06	5.89E-01	8.93E-01
720	1.25E+01	8.60E+01	9.36E-03	4.96E-06	6.51E-01	8.08E-01
730	1.35E+01	8.50E+01	8.22E-03	4.10E-06	7.20E-01	7.31E-01
740	1.46E+01	8.39E+01	7.21E-03	3.39E-06	7.94E-01	6.60E-01
750	1.57E+01	8.28E+01	6.32E-03	2.80E-06	8.75E-01	5.96E-01
760	1.69E+01	8.16E+01	5.53E-03	2.31E-06	9.63E-01	5.37E-01
770	1.82E+01	8.03E+01	4.84E-03	1.91E-06	1.06E+00	4.84E-01
780	1.95E+01	7.89E+01	4.23E-03	1.57E-06	1.16E+00	4.36E-01
790	2.09E+01	7.74E+01	3.69E-03	1.30E-06	1.27E+00	3.92E-01
800	2.24E+01	7.59E+01	3.22E-03	1.07E-06	1.39E+00	3.52E-01
<i>D</i> -172; <i>LAT</i> -40; <i>LON</i> -45; <i>LT</i> -18; <i>F</i> -150; <i>FAV</i> -150; <i>A_p</i> 100; <i>UT</i> 1-15						
80	5.43E-04	1.08E-03	2.08E+01	9.23E-01	1.37E-05	7.83E+01
90	6.01E-04	2.71E-01	2.03E+01	9.00E-01	8.38E-05	7.85E+01
100	9.55E-04	3.00E+00	1.83E+01	7.82E-01	1.32E-04	7.79E+01
110	2.50E-03	8.79E+00	1.41E+01	5.56E-01	2.93E-04	7.66E+01
120	5.16E-03	1.46E+01	1.02E+01	3.99E-01	4.43E-04	7.47E+01
130	5.77E-03	1.90E+01	8.07E+00	3.03E-01	4.63E-04	7.26E+01
140	6.68E-03	2.26E+01	6.95E+00	2.37E-01	4.37E-04	7.02E+01
150	9.24E-03	2.57E+01	6.24E+00	1.91E-01	4.10E-04	6.79E+01
160	1.28E-02	2.86E+01	5.69E+00	1.56E-01	4.03E-04	6.55E+01
170	1.72E-02	3.15E+01	5.22E+00	1.30E-01	4.19E-04	6.32E+01
180	2.24E-02	3.42E+01	4.80E+00	1.08E-01	4.58E-04	6.09E+01
190	2.87E-02	3.69E+01	4.42E+00	9.13E-02	5.22E-04	5.85E+01
200	3.60E-02	3.96E+01	4.06E+00	7.73E-02	6.12E-04	5.62E+01
210	4.45E-02	4.23E+01	3.74E+00	6.56E-02	7.30E-04	5.38E+01
220	5.44E-02	4.50E+01	3.44E+00	5.58E-02	8.78E-04	5.15E+01
230	6.58E-02	4.76E+01	3.16E+00	4.75E-02	1.06E-03	4.91E+01
240	7.89E-02	5.02E+01	2.90E+00	4.04E-02	1.28E-03	4.67E+01
250	9.38E-02	5.28E+01	2.65E+00	3.45E-02	1.55E-03	4.44E+01
260	1.11E-01	5.54E+01	2.43E+00	2.93E-02	1.86E-03	4.21E+01
270	1.30E-01	5.79E+01	2.21E+00	2.50E-02	2.23E-03	3.98E+01
280	1.51E-01	6.03E+01	2.02E+00	2.12E-02	2.66E-03	3.75E+01
290	1.76E-01	6.27E+01	1.83E+00	1.80E-02	3.15E-03	3.53E+01
300	2.03E-01	6.50E+01	1.67E+00	1.53E-02	3.73E-03	3.31E+01
310	2.35E-01	6.69E+01	1.52E+00	1.31E-02	4.42E-03	3.13E+01
320	2.69E-01	6.91E+01	1.38E+00	1.10E-02	5.18E-03	2.93E+01
330	3.06E-01	7.11E+01	1.24E+00	9.33E-03	6.04E-03	2.73E+01
340	3.47E-01	7.31E+01	1.12E+00	7.88E-03	7.03E-03	2.54E+01
350	3.93E-01	7.49E+01	1.01E+00	6.65E-03	8.16E-03	2.36E+01
360	4.44E-01	7.67E+01	9.06E-01	5.60E-03	9.44E-03	2.20E+01
370	5.00E-01	7.83E+01	8.13E-01	4.72E-03	1.09E-02	2.04E+01
380	5.61E-01	7.98E+01	7.30E-01	3.97E-03	1.25E-02	1.89E+01
390	6.29E-01	8.13E+01	6.54E-01	3.34E-03	1.44E-02	1.74E+01
400	7.04E-01	8.26E+01	5.85E-01	2.80E-03	1.65E-02	1.61E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
410	7.85E-01	8.38E+01	5.24E-01	2.35E-03	1.88E-02	1.49E+01
420	8.75E-01	8.49E+01	4.68E-01	1.98E-03	2.14E-02	1.37E+01
430	9.73E-01	8.59E+01	4.18E-01	1.66E-03	2.44E-02	1.26E+01
440	1.08E+00	8.69E+01	3.73E-01	1.39E-03	2.78E-02	1.16E+01
450	1.20E+00	8.77E+01	3.33E-01	1.16E-03	3.15E-02	1.07E+01
460	1.33E+00	8.85E+01	2.96E-01	9.76E-04	3.57E-02	9.85E+00
470	1.47E+00	8.92E+01	2.64E-01	8.17E-04	4.04E-02	9.05E+00
480	1.62E+00	8.98E+01	2.35E-01	6.84E-04	4.56E-02	8.31E+00
490	1.79E+00	9.03E+01	2.09E-01	5.73E-04	5.15E-02	7.62E+00
500	1.97E+00	9.08E+01	1.86E-01	4.80E-04	5.81E-02	6.99E+00
510	2.17E+00	9.12E+01	1.66E-01	4.01E-04	6.54E-02	6.41E+00
520	2.38E+00	9.15E+01	1.47E-01	3.36E-04	7.35E-02	5.87E+00
530	2.61E+00	9.18E+01	1.31E-01	2.81E-04	8.26E-02	5.38E+00
540	2.87E+00	9.20E+01	1.16E-01	2.35E-04	9.27E-02	4.93E+00
550	3.14E+00	9.21E+01	1.03E-01	1.97E-04	1.04E-01	4.51E+00
560	3.44E+00	9.22E+01	9.17E-02	1.64E-04	1.16E-01	4.13E+00
570	3.77E+00	9.22E+01	8.14E-02	1.37E-04	1.30E-01	3.77E+00
580	4.12E+00	9.22E+01	7.22E-02	1.15E-04	1.46E-01	3.45E+00
590	4.50E+00	9.21E+01	6.41E-02	9.61E-05	1.62E-01	3.15E+00
600	4.90E+00	9.20E+01	5.68E-02	8.03E-05	1.81E-01	2.88E+00
610	5.35E+00	9.18E+01	5.04E-02	6.71E-05	2.02E-01	2.63E+00
620	5.82E+00	9.15E+01	4.47E-02	5.61E-05	2.25E-01	2.40E+00
630	6.34E+00	9.12E+01	3.96E-02	4.69E-05	2.50E-01	2.19E+00
640	6.89E+00	9.08E+01	3.51E-02	3.92E-05	2.78E-01	2.00E+00
650	7.48E+00	9.04E+01	3.10E-02	3.27E-05	3.09E-01	1.82E+00
660	8.12E+00	8.99E+01	2.75E-02	2.73E-05	3.42E-01	1.66E+00
670	8.80E+00	8.93E+01	2.43E-02	2.28E-05	3.79E-01	1.51E+00
680	9.53E+00	8.87E+01	2.15E-02	1.91E-05	4.20E-01	1.38E+00
690	1.03E+01	8.80E+01	1.90E-02	1.59E-05	4.64E-01	1.25E+00
700	1.11E+01	8.72E+01	1.68E-02	1.33E-05	5.12E-01	1.14E+00
710	1.20E+01	8.64E+01	1.48E-02	1.11E-05	5.65E-01	1.04E+00
720	1.30E+01	8.55E+01	1.31E-02	9.23E-06	6.22E-01	9.41E-01
730	1.40E+01	8.45E+01	1.16E-02	7.69E-06	6.84E-01	8.54E-01
740	1.50E+01	8.34E+01	1.02E-02	6.41E-06	7.52E-01	7.75E-01
750	1.61E+01	8.23E+01	8.98E-03	5.33E-06	8.25E-01	7.02E-01
760	1.73E+01	8.11E+01	7.90E-03	4.44E-06	9.04E-01	6.36E-01
770	1.85E+01	7.99E+01	6.95E-03	3.69E-06	9.89E-01	5.75E-01
780	1.98E+01	7.86E+01	6.11E-03	3.06E-06	1.08E+00	5.20E-01
790	2.12E+01	7.72E+01	5.36E-03	2.54E-06	1.18E+00	4.69E-01
800	2.26E+01	7.57E+01	4.70E-03	2.11E-06	1.28E+00	4.23E-01

D—172; LAT—40; LON—45; LT—24; F—150; FAV—150; A_p—100; UT1—21

80	5.41E-04	1.02E-03	2.08E+01	9.37E-01	1.35E-05	7.83E+01
90	6.04E-04	2.54E-03	2.02E+01	9.21E-01	8.41E-05	7.86E+01
100	9.60E-04	2.81E+00	1.80E+01	8.14E-01	1.30E-04	7.84E+01

Продолжение табл. 27

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
110	2.37E-03	8.15E+00	1.35E+01	6.01E-01	2.67E-04	7.77E+01
120	5.02E-03	1.40E+01	9.31E+00	4.31E-01	4.29E-04	7.63E+01
130	5.53E-03	1.83E+01	7.10E+00	3.32E-01	4.74E-04	7.43E+01
140	6.17E-03	2.15E+01	6.06E+00	2.67E-01	4.50E-04	7.21E+01
150	8.44E-03	2.43E+01	5.44E+00	2.20E-01	4.21E-04	7.00E+01
160	1.16E-02	2.70E+01	4.98E+00	1.83E-01	4.12E-04	6.78E+01
170	1.56E-02	2.96E+01	4.58E+00	1.53E-01	4.28E-04	6.57E+01
180	2.05E-02	3.22E+01	4.21E+00	1.28E-01	4.71E-04	6.34E+01
190	2.64E-02	3.48E+01	3.88E+00	1.08E-01	5.43E-04	6.11E+01
200	3.35E-02	3.76E+01	3.56E+00	9.06E-02	6.45E-04	5.88E+01
210	4.21E-02	4.03E+01	3.27E+00	7.61E-02	7.83E-04	5.63E+01
220	5.24E-02	4.32E+01	2.98E+00	6.38E-02	9.63E-04	5.37E+01
230	6.47E-02	4.61E+01	2.72E+00	5.33E-02	1.19E-03	5.11E+01
240	7.93E-02	4.90E+01	2.47E+00	4.45E-02	1.48E-03	4.84E+01
250	9.66E-02	5.20E+01	2.23E+00	3.70E-02	1.83E-03	4.57E+01
260	1.17E-01	5.49E+01	2.01E+00	3.07E-02	2.27E-03	4.29E+01
270	1.41E-01	5.78E+01	1.81E+00	2.54E-02	2.80E-03	4.02E+01
280	1.68E-01	6.07E+01	1.62E+00	2.09E-02	3.44E-03	3.75E+01
290	2.00E-01	6.35E+01	1.44E+00	1.72E-02	4.22E-03	3.49E+01
300	2.37E-01	6.62E+01	1.28E+00	1.41E-02	5.14E-03	3.23E+01
310	2.83E-01	6.84E+01	1.15E+00	1.16E-02	6.32E-03	3.01E+01
320	3.31E-01	7.10E+01	1.02E+00	9.46E-03	7.63E-03	2.77E+01
330	3.87E-01	7.34E+01	8.93E-01	7.68E-03	9.17E-03	2.53E+01
340	4.50E-01	7.56E+01	7.83E-01	6.21E-03	1.10E-02	2.31E+01
350	5.22E-01	7.77E+01	6.85E-01	5.02E-03	1.31E-02	2.11E+01
360	6.03E-01	7.96E+01	5.98E-01	4.04E-03	1.56E-02	1.92E+01
370	6.95E-01	8.14E+01	5.21E-01	3.25E-03	1.86E-02	1.74E+01
380	7.98E-01	8.30E+01	4.53E-01	2.61E-03	2.20E-02	1.57E+01
390	9.15E-01	8.45E+01	3.94E-01	2.09E-03	2.60E-02	1.42E+01
400	1.05E+00	8.58E+01	3.41E-01	1.68E-03	3.06E-02	1.28E+01
410	1.19E+00	8.69E+01	2.95E-01	1.34E-03	3.60E-02	1.15E+01
420	1.36E+00	8.80E+01	2.55E-01	1.07E-03	4.22E-02	1.04E+01
430	1.54E+00	8.89E+01	2.21E-01	8.57E-04	4.93E-02	9.32E+00
440	1.75E+00	8.96E+01	1.90E-01	6.84E-04	5.76E-02	8.36E+00
450	1.98E+00	9.03E+01	1.64E-01	5.45E-04	6.72E-02	7.49E+00
460	2.24E+00	9.08E+01	1.41E-01	4.34E-04	7.82E-02	6.71E+00
470	2.53E+00	9.13E+01	1.22E-01	3.46E-04	9.08E-02	6.00E+00
480	2.85E+00	9.16E+01	1.05E-01	2.75E-04	1.05E-01	5.36E+00
490	3.21E+00	9.18E+01	8.98E-02	2.19E-04	1.22E-01	4.79E+00
500	3.60E+00	9.19E+01	7.7E-02	1.74E-04	1.41E-01	4.27E+00
510	4.04E+00	9.19E+01	6.62E-02	1.38E-04	1.63E-01	3.81E+00
520	4.53E+00	9.18E+01	5.68E-02	1.10E-04	1.88E-01	3.39E+00
530	5.07E+00	9.16E+01	4.87E-02	8.74E-05	2.16E-01	3.02E+00
540	5.66E+00	9.14E+01	4.17E-02	6.94E-05	2.48E-01	2.69E+00
550	6.31E+00	9.10E+01	3.57E-02	5.56E-05	2.85E-01	2.39E+00
560	7.03E+00	9.05E+01	3.05E-02	4.37E-05	3.27E-01	2.12E+00
570	7.82E+00	8.99E+01	2.61E-02	3.46E-05	3.74E-01	1.88E+00
580	8.68E+00	8.92E+01	2.23E-02	2.74E-05	4.27E-01	1.67E+00
590	9.63E+00	8.84E+01	1.90E-02	2.17E-05	4.86E-01	1.48E+00
600	1.07E+01	8.75E+01	1.62E-02	1.72E-05	5.54E-01	1.31E+00

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
610	1.18E+01	8.64E+01	1.38E-02	1.36E-05	6.29E-01	1.16E+00
620	1.30E+01	8.53E+01	1.17E-02	1.07E-05	7.13E-01	1.02E+00
630	1.43E+01	8.40E+01	9.97E-03	8.46E-06	8.07E-01	9.00E-01
640	1.57E+01	8.26E+01	8.46E-03	6.67E-06	9.11E-01	7.93E-01
650	1.72E+01	8.11E+01	7.16E-03	5.25E-06	1.03E+00	6.97E-01
660	1.88E+01	7.94E+01	6.06E-03	4.13E-06	1.15E+00	6.12E-01
670	2.05E+01	7.76E+01	5.12E-03	3.24E-06	1.29E+00	5.36E-01
680	2.23E+01	7.58E+01	4.32E-03	2.54E-06	1.45E+00	4.69E-01
690	2.42E+01	7.37E+01	3.63E-03	1.99E-06	1.61E+00	4.09E-01
700	2.62E+01	7.16E+01	3.05E-03	1.55E-06	1.80E+00	3.56E-01
710	2.83E+01	6.94E+01	2.56E-03	1.21E-06	1.99E+00	3.10E-01
720	3.05E+01	6.70E+01	2.14E-03	9.43E-07	2.20E+00	2.68E-01
730	3.27E+01	6.46E+01	1.79E-03	7.32E-07	2.43E+00	2.32E-01
740	3.50E+01	6.21E+01	1.49E-03	5.68E-07	2.67E+00	2.01E-01
750	3.74E+01	5.95E+01	1.24E-03	4.39E-07	2.93E+00	1.73E-01
760	3.98E+01	5.69E+01	1.02E-03	3.39E-07	3.20E+00	1.48E-01
770	4.22E+01	5.42E+01	8.47E-04	2.61E-07	3.48E+00	1.27E-01
780	4.46E+01	5.15E+01	6.99E-04	2.01E-07	3.78E+00	1.09E-01
790	4.70E+01	4.88E+01	5.75E-04	1.54E-07	4.09E+00	9.26E-02
800	4.93E+01	4.62E+01	4.72E-04	1.18E-07	4.41E+00	7.87E-02

Таблица 28

Суточные вариации состава при средней солнечной активности на средних широтах южного полушария (высокая магнитная активность)

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	N/S, %	N ₂ /S, %
80	5.46E-04	1.35E-03	2.09E+01	9.29E-01	1.58E-05	7.82E+01
90	6.04E-04	3.48E-01	2.06E+01	9.07E-01	1.02E-04	7.82E+01
100	9.43E-04	3.90E+00	1.89E-01	7.83E-01	1.65E-04	7.64E+01
110	2.53E-03	1.16E+01	1.52E+01	5.38E-01	3.93E-04	7.27E+01
120	7.12E-03	1.94E+01	1.20E+01	3.72E-01	6.58E-04	6.83E+01
130	2.07E-02	2.55E+01	9.92E+00	2.76E-01	7.39E-04	6.43E+01
140	4.49E-02	3.07E+01	8.53E+00	2.10E-01	7.53E-04	6.05E+01
150	6.94E-02	3.55E+01	7.47E+00	1.63E-01	7.60E-04	5.68E+01
160	9.67E-02	4.01E+01	6.57E+00	1.28E-01	7.91E-04	5.31E+01
170	1.29E-01	4.46E+01	5.78E+00	1.00E-01	8.62E-04	4.94E+01
180	1.68E-01	4.90E+01	5.07E+00	7.91E-02	9.78E-04	4.57E+01
190	2.15E-01	5.32E+01	4.43E+00	6.24E-02	1.15E-03	4.21E+01
200	2.70E-01	5.72E+01	3.86E+00	4.91E-02	1.38E-03	3.86E+01

D-172; LAT-40; LON-45; LT-6; F-150; VΔV-150; A_p-100; UTI-3

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ /S, %	N ₂ /S, %
210	3.34E-01	6.10E+01	3.36E+00	3.87E-02	1.67E-03	3.53E+01
220	4.10E-01	6.46E+01	2.91E+00	3.04E-02	2.05E-03	3.21E+01
230	4.98E-01	6.79E+01	2.51E+00	2.38E-02	2.52E-03	2.91E+01
240	6.01E-01	7.10E+01	2.16E+00	1.86E-02	3.09E-03	2.62E+01
250	7.19E-01	7.38E+01	1.85E+00	1.45E-02	3.79E-03	2.36E+01
260	8.55E-01	7.64E+01	1.59E+00	1.13E-02	4.64E-03	2.11E+01
270	1.31E+00	7.87E+01	1.35E+00	8.81E-03	5.66E-03	1.89E+01
280	1.19E+00	8.08E+01	1.15E+00	6.83E-03	6.89E-03	1.68E+01
290	1.40E+00	8.26E+01	9.78E-01	5.29E-03	8.34E-03	1.50E+01
300	1.63E+00	8.42E+01	8.29E-01	4.09E-03	1.01E-02	1.33E+01
310	1.89E+00	8.57E+01	6.97E-01	3.14E-03	1.21E-02	1.17E+01
320	2.20E+00	8.68E+01	5.89E-01	2.43E-03	1.45E-02	1.04E+01
330	2.55E+00	8.78E+01	4.97E-01	1.87E-03	1.73E-02	9.14E+00
340	2.94E+00	8.86E+01	4.19E-01	1.44E-03	2.07E-02	8.06E+00
350	3.39E+00	8.91E+01	3.53E-01	1.11E-03	2.47E-02	7.09E+00
360	3.89E+00	8.96E+01	2.96E-01	8.51E-04	2.93E-02	6.23E+00
370	4.46E+00	8.98E+01	2.48E-01	6.53E-04	3.48E-02	5.46E+00
380	5.10E+00	8.99E+01	2.08E-01	5.01E-04	4.11E-02	4.78E+00
390	5.82E+00	8.98E+01	1.74E-01	3.84E-04	4.85E-02	4.18E+00
400	6.63E+00	8.95E+01	1.46E-01	2.94E-04	5.70E-02	3.66E+00
410	7.53E+00	8.91E+01	1.22E-01	2.24E-04	6.70E-02	3.19E+00
420	8.53E+00	8.85E+01	1.01E-01	1.71E-04	7.84E-02	2.78E+00
430	9.64E+00	8.78E+01	8.43E-02	1.31E-04	9.16E-02	2.41E+00
440	1.09E+01	8.68E+01	7.01E-02	9.95E-05	1.07E-01	2.10E+00
450	1.22E+01	8.58E+01	5.82E-02	7.57E-05	1.24E-01	1.82E+00
460	1.37E+01	8.45E+01	4.82E-02	5.75E-05	1.44E-01	1.57E+00
470	1.54E+01	8.31E+01	3.98E-02	4.36E-05	1.66E-01	1.36E+00
480	1.72E+01	8.15E+01	3.29E-02	3.30E-05	1.92E-01	1.17E+00
490	1.91E+01	7.97E+01	2.71E-02	2.50E-05	2.20E-01	1.01E+00
500	2.12E+01	7.77E+01	2.23E-02	1.88E-05	2.52E-01	8.63E-01
510	2.34E+01	7.56E+01	1.82E-02	1.42E-05	2.88E-01	7.38E-01
520	2.58E+01	7.33E+01	1.49E-02	1.06E-05	3.27E-01	6.30E-01
530	2.83E+01	7.08E+01	1.22E-02	7.97E-06	3.71E-01	5.36E-01
540	3.09E+01	6.82E+01	9.89E-03	5.96E-06	4.19E-01	4.55E-01
550	3.37E+01	6.54E+01	8.02E-03	4.44E-06	4.71E-01	3.84E-01
560	3.66E+01	6.26E+01	6.48E-03	3.30E-06	5.27E-01	3.24E-01
570	3.95E+01	5.96E+01	5.22E-03	2.44E-06	5.88E-01	2.72E-01
580	4.25E+01	5.66E+01	4.19E-03	1.80E-06	6.53E-01	2.28E-01
590	4.56E+01	5.35E+01	3.35E-03	1.33E-06	7.22E-01	1.90E-01
600	4.86E+01	5.04E+01	2.68E-03	9.74E-07	7.95E-01	1.58E-01
610	5.17E+01	4.73E+01	2.13E-03	7.13E-07	8.72E-01	1.31E-01
620	5.47E+01	4.42E+01	1.69E-03	5.20E-07	9.52E-01	1.08E-01
630	5.77E+01	4.12E+01	1.33E-03	3.78E-07	1.04E+00	8.90E-02
640	6.06E+01	3.82E+01	1.05E-03	2.74E-07	1.12E+00	7.30E-02
650	6.34E+01	3.54E+01	8.23E-04	1.98E-07	1.21E+00	5.97E-02
660	6.60E+01	3.26E+01	6.44E-04	1.43E-07	1.30E+00	4.87E-02
670	6.86E+01	3.00E+01	5.03E-04	1.03E-07	1.39E+00	3.96E-02
680	7.10E+01	2.75E+01	3.92E-04	7.39E-08	1.49E+00	3.21E-02
690	7.33E+01	2.51E+01	3.04E-04	5.30E-08	1.58E+00	2.60E-02
700	7.54E+01	2.29E+01	2.36E-04	3.79E-08	1.68E+00	2.10E-02

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
710	7.74E+01	2.08E+01	1.83E-04	2.70E-08	1.77E+00	1.69E-02
720	7.92E+01	1.89E+01	1.41E-04	1.93E-08	1.87E+00	1.36E-02
730	8.09E+01	1.71E+01	1.09E-04	1.37E-08	1.97E+00	1.09E-02
740	8.25E+01	1.55E+01	8.38E-05	9.76E-09	2.07E+00	8.76E-03
750	8.39E+01	1.39E+01	6.45E-05	6.93E-09	2.17E+00	7.01E-03
760	8.52E+01	1.26E+01	4.96E-05	4.92E-09	2.27E+00	5.61E-03
770	8.63E+01	1.13E+01	3.81E-05	3.49E-09	2.37E+00	4.48E-03
780	8.74E+01	1.02E+01	2.92E-05	2.48E-09	2.47E+00	3.58E-03
790	8.83E+01	9.13E+00	2.24E-05	1.75E-09	2.57E+00	2.85E-03
800	8.91E+01	8.19E+00	1.72E-05	1.24E-09	2.67E+00	2.28E-03

D-172; LAT--40; LON-45; LT-12; F-150; VAV-150; A_p-100; UT1-9

80	5.45E-04	1.31E-03	2.08E+01	8.91E-01	1.54E-05	7.83E+01
90	6.08E-04	3.36E-01	2.04E+01	8.45E-01	1.00E-04	7.84E+01
100	9.49E-04	3.79E+00	1.84E+01	7.03E-01	1.59E-04	7.71E+01
110	2.40E-03	1.11E+01	1.43E+01	4.70E-01	3.48E-04	7.41E+01
120	6.18E-03	1.88E+01	1.05E+01	3.05E-01	5.68E-04	7.04E+01
130	1.48E-02	2.49E+01	8.28E+00	2.11E-01	6.54E-04	6.66E+01
140	2.81E-02	2.99E+01	7.01E+00	1.52E-01	6.67E-04	6.29E+01
150	4.22E-02	3.44E+01	6.14E+00	1.13E-01	6.67E-04	5.93E+01
160	5.85E-02	3.86E+01	5.44E+00	8.74E-02	6.85E-04	5.58E+01
170	7.76E-02	4.26E+01	4.84E+00	6.87E-02	7.35E-04	5.24E+01
180	1.00E-01	4.65E+01	4.31E+00	5.47E-02	8.20E-04	4.90E+01
190	1.26E-01	5.02E+01	3.84E+00	4.40E-02	9.44E-04	4.57E+01
200	1.57E-01	5.38E+01	3.41E+00	3.56E-02	1.11E-03	4.26E+01
210	1.92E-01	5.72E+01	3.03E+00	2.88E-02	1.33E-03	3.95E+01
220	2.32E-01	6.05E+01	2.69E+00	2.34E-02	1.60E-03	3.66E+01
230	2.78E-01	6.35E+01	2.38E+00	1.90E-02	1.92E-03	3.38E+01
240	3.31E-01	6.64E+01	2.10E+00	1.55E-02	2.32E-03	3.11E+01
250	3.90E-01	6.92E+01	1.85E+00	1.26E-02	2.79E-03	2.86E+01
260	4.58E-01	7.17E+01	1.63E+00	1.02E-02	3.35E-03	2.62E+01
270	5.34E-01	7.40E+01	1.44E+00	8.29E-03	4.01E-03	2.40E+01
280	6.20E-01	7.62E+01	1.26E+00	6.72E-03	4.78E-03	2.19E+01
290	7.16E-01	7.82E+01	1.10E+00	5.44E-03	5.68E-03	2.00E+01
300	8.25E-01	8.00E+01	9.65E-01	4.41E-03	6.72E-03	1.82E+01
310	9.44E-01	8.18E+01	8.41E-01	3.55E-03	7.91E-03	1.64E+01
320	1.08E+00	8.33E+01	7.34E-01	2.87E-03	9.32E-03	1.49E+01
330	1.23E+00	8.46E+01	6.40E-01	2.32E-03	1.09E-02	1.35E+01
340	1.40E+00	8.58E+01	5.57E-01	1.87E-03	1.28E-02	1.22E+01
350	1.59E+00	8.69E+01	4.85E-01	1.51E-03	1.49E-02	1.10E+01
360	1.80E+00	8.78E+01	4.21E-01	1.21E-03	1.74E-02	9.96E+00
370	2.04E+00	8.86E+01	3.66E-01	9.78E-04	2.02E-02	8.98E+00
380	2.30E+00	8.93E+01	3.17E-01	7.87E-04	2.35E-02	8.09E+00
390	2.59E+00	8.98E+01	2.75E-01	6.33E-04	2.72E-02	7.27E+00
400	2.91E+00	9.03E+01	2.38E-01	5.09E-04	3.14E-02	6.54E+00

Продолжение табл. 28

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
410	3.26E+00	9.06E+01	2.06E-01	4.09E-04	3.63E-02	5.87E+00
420	3.65E+00	9.09E+01	1.78E-01	3.28E-04	4.18E-02	5.27E+00
430	4.09E+00	9.10E+01	1.54E-01	2.64E-04	4.80E-02	4.73E+00
440	4.57E+00	9.10E+01	1.33E-01	2.12E-04	5.51E-02	4.23E+00
450	5.09E+00	9.09E+01	1.15E-01	1.70E-04	6.32E-02	3.79E+00
460	5.67E+00	9.08E+01	9.90E-02	1.36E-04	7.23E-02	3.39E+00
470	6.31E+00	9.05E+01	8.54E-02	1.09E-04	8.26E-02	3.03E+00
480	7.00E+00	9.01E+01	7.35E-02	8.74E-05	9.43E-02	2.71E+00
490	7.76E+00	8.96E+01	6.33E-02	7.00E-05	1.07E-01	2.42E+00
510	8.59E+00	8.91E+01	5.44E-02	5.60E-05	1.22E-01	2.16E+00
510	9.50E+00	8.84E+01	4.68E-02	4.48E-05	1.39E-01	1.92E+00
520	1.05E+01	8.76E+01	4.02E-02	3.58E-05	1.57E-01	1.71E+00
530	1.16E+01	8.67E+01	3.45E-02	2.86E-05	1.78E-01	1.52E+00
540	1.27E+01	8.57E+01	2.96E-02	2.29E-05	2.01E-01	1.35E+00
550	1.40E+01	8.46E+01	2.53E-02	1.82E-05	2.27E-01	1.20E+00
560	1.53E+01	8.34E+01	2.17E-02	1.45E-05	2.55E-01	1.06E+00
570	1.67E+01	8.20E+01	1.85E-02	1.16E-05	2.87E-01	9.40E-01
580	1.83E+01	8.06E+01	1.58E-02	9.20E-06	3.21E-01	8.30E-01
590	1.99E+01	7.90E+01	1.34E-02	7.31E-06	3.59E-01	7.33E-01
600	2.16E+01	7.73E+01	1.14E-02	5.80E-06	4.01E-01	6.46E-01
610	2.34E+01	7.55E+01	9.72E-03	4.59E-06	4.46E-01	5.68E-01
620	2.54E+01	7.36E+01	8.25E-03	3.63E-06	4.96E-01	4.99E-01
630	2.74E+01	7.16E+01	6.98E-03	2.87E-06	5.49E-01	4.37E-01
640	2.95E+01	6.95E+01	5.90E-03	2.26E-06	6.07E-01	3.83E-01
650	3.17E+01	6.73E+01	4.98E-03	1.78E-06	6.69E-01	3.34E-01
660	3.39E+01	6.50E+01	4.19E-03	1.40E-06	7.35E-01	2.91E-01
670	3.62E+01	6.27E+01	3.52E-03	1.10E-06	8.06E-01	2.53E-01
680	3.86E+01	6.03E+01	2.95E-03	8.61E-07	8.81E-01	2.20E-01
690	4.10E+01	5.78E+01	2.47E-03	6.73E-07	9.60E-01	1.90E-01
700	4.35E+01	5.53E+01	2.06E-03	5.25E-07	1.04E+00	1.64E-01
710	4.59E+01	5.28E+01	1.72E-03	4.09E-07	1.13E+00	1.42E-01
720	4.84E+01	5.03E+01	1.43E-03	3.18E-07	1.22E+00	1.22E-01
730	5.08E+01	4.77E+01	1.19E-03	2.46E-07	1.32E+00	1.05E-01
740	5.33E+01	4.52E+01	9.83E-04	1.91E-07	1.42E+00	8.96E-02
750	5.57E+01	4.27E+01	8.12E-04	1.47E-07	1.52E+00	7.66E-02
760	5.80E+01	4.03E+01	6.70E-04	1.14E-07	1.62E+00	6.53E-02
770	6.03E+01	3.79E+01	5.51E-04	8.76E-08	1.73E+00	5.56E-02
780	6.26E+01	3.56E+01	4.53E-04	6.73E-08	1.84E+00	4.72E-02
790	6.47E+01	3.33E+01	3.72E-04	5.17E-08	1.95E+00	4.00E-02
800	6.68E+01	3.11E+01	3.04E-04	3.96E-08	2.06E+00	3.39E-02

D-172; LAT-40; LON-45; LT-18; F-150; VAV-150; A_p-100; UTI-15

80	5.46E-04	1.32E-03	2.09E+01	8.89E-01	1.55E-05	7.82E+01
90	6.05E-04	3.38E-01	2.05E+01	8.44E-01	9.95E-05	7.83E+01
100	9.45E-04	3.79E+00	1.87E+01	7.00E-01	1.60E-04	7.68E+01

z, мм	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ /S, %	N ₂ /S, %
110	2.51E-03	1.12E+01	1.50E+01	4.56E-01	3.77E-04	7.33E+01
120	6.41E-03	1.88E+01	1.15E+01	2.96E-01	6.24E-04	6.93E+01
130	1.35E-02	2.48E+01	9.44E+00	2.05E-01	6.94E-04	6.56E+01
140	2.39E-02	2.97E+01	8.11E+00	1.48E-01	6.99E-04	6.20E+01
150	3.54E-02	3.43E+01	7.14E+00	1.11E-01	6.96E-04	5.85E+01
160	4.90E-02	3.86E+01	6.33E+00	8.50E-02	7.15E-04	5.50E+01
170	6.51E-02	4.27E+01	5.63E+00	6.66E-02	7.67E-04	5.16E+01
180	8.42E-02	4.66E+01	5.01E+00	5.30E-02	8.57E-04	4.82E+01
190	1.06E-01	5.04E+01	4.45E+00	4.25E-02	9.90E-04	4.50E+01
200	1.32E-01	5.41E+01	3.95E+00	3.43E-02	1.17E-03	4.18E+01
210	1.62E-01	5.75E+01	3.31E+00	2.77E-02	1.40E-03	3.88E+01
220	1.96E-01	6.08E+01	3.11E+00	2.25E-02	1.68E-03	3.59E+01
230	2.35E-01	6.39E+01	2.75E+00	1.82E-02	2.03E-03	3.31E+01
240	2.80E-01	6.68E+01	2.42E+00	1.48E-02	2.45E-03	3.04E+01
250	3.31E-01	6.96E+01	2.14E+00	1.20E-02	2.95E-03	2.79E+01
260	3.88E-01	7.21E+01	1.88E+00	9.74E-03	3.54E-03	2.56E+01
270	4.53E-01	7.45E+01	1.65E+00	7.90E-03	4.23E-03	2.34E+01
280	5.25E-01	7.67E+01	1.45E+00	6.40E-03	5.05E-03	2.14E+01
290	6.07E-01	7.87E+01	1.27E+00	5.18E-03	6.00E-03	1.95E+01
300	6.99E-01	8.05E+01	1.11E+00	4.19E-03	7.10E-03	1.77E+01
310	7.99E-01	8.22E+01	9.65E-01	3.38E-03	8.35E-03	1.60E+01
320	9.15E-01	8.37E+01	8.43E-01	2.73E-03	9.83E-03	1.45E+01
330	1.04E+00	8.50E+01	7.35E-01	2.21E-03	1.15E-02	1.32E+01
340	1.19E+00	8.62E+01	6.40E-01	1.78E-03	1.35E-02	1.19E+01
350	1.35E+00	8.73E+01	5.57E-01	1.44E-03	1.58E-02	1.08E+01
360	1.53E+00	8.83E+01	4.84E-01	1.16E-03	1.83E-02	9.72E+00
370	1.72E+00	8.91E+01	4.21E-01	9.33E-04	2.13E-02	8.76E+00
380	1.94E+00	8.98E+01	3.65E-01	7.52E-04	2.47E-02	7.90E+00
390	2.19E+00	9.04E+01	3.17E-01	6.05E-04	2.86E-02	7.11E+00
400	2.46E+00	9.08E+01	2.75E-01	4.87E-04	3.31E-02	6.39E+00
410	2.76E+00	9.12E+01	2.38E-01	3.92E-04	3.82E-02	5.75E+00
420	3.09E+00	9.15E+01	2.06E-01	3.15E-04	4.39E-02	5.16E+00
430	3.46E+00	9.17E+01	1.78E-01	2.54E-04	5.05E-02	4.63E+00
440	3.86E+00	9.18E+01	1.54E-01	2.04E-04	5.80E-02	4.16E+00
450	4.31E+00	9.18E+01	1.33E-01	1.64E-04	6.65E-02	3.73E+00
460	4.80E+00	9.17E+01	1.15E-01	1.32E-04	7.61E-02	3.34E+00
470	5.34E+00	9.15E+01	9.94E-02	1.06E-04	8.70E-02	2.99E+00
480	5.93E+00	9.12E+01	8.58E-02	8.50E-05	9.93E-02	2.68E+00
490	6.58E+00	9.08E+01	7.40E-02	6.82E-05	1.13E-01	2.39E+00
500	7.29E+00	9.04E+01	6.38E-02	5.47E-05	1.29E-01	2.14E+00
510	8.07E+00	8.98E+01	5.49E-02	4.39E-05	1.46E-01	1.91E+00
520	8.91E+00	8.92E+01	4.73E-02	3.52E-05	1.66E-01	1.70E+00
530	9.83E+00	8.84E+01	4.07E-02	2.82E-05	1.88E-01	1.52E+00
540	1.08E+01	8.76E+01	3.50E-02	2.26E-05	2.13E-01	1.35E+00
550	1.19E+01	8.66E+01	3.00E-02	1.81E-05	2.40E-01	1.20E+00
560	1.31E+01	8.56E+01	2.58E-02	1.45E-05	2.71E-01	1.07E+00
570	1.43E+01	8.44E+01	2.21E-02	1.15E-05	3.05E-01	9.49E-01
580	1.57E+01	8.31E+01	1.89E-02	9.22E-06	3.42E-01	8.41E-01
590	1.71E+01	8.17E+01	1.62E-02	7.35E-06	3.84E-01	7.45E-01
600	1.87E+01	8.02E+01	1.38E-02	5.86E-06	4.29E-01	6.59E-01

Продолжение табл. 28

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H/S, %	N ₂ /S, %
610	2.03E+01	7.86E+01	1.18E-02	4.66E-06	4.79E-01	5.82E-01
620	2.20E+01	7.69E+01	1.00E-02	3.71E-06	5.34E-01	5.13E-01
630	2.38E+01	7.51E+01	8.54E-03	2.94E-06	5.93E-01	4.52E-01
640	2.58E+01	7.32E+01	7.25E-03	2.33E-06	6.58E-01	3.97E-01
650	2.78E+01	7.12E+01	6.15E-03	1.85E-06	7.27E-01	3.48E-01
660	2.98E+01	6.90E+01	5.20E-03	1.46E-06	8.02E-01	3.05E-01
670	3.20E+01	6.68E+01	4.39E-03	1.15E-06	8.82E-01	2.67E-01
680	3.42E+01	6.46E+01	3.71E-03	9.07E-07	9.68E-01	2.33E-01
690	3.65E+01	6.22E+01	3.12E-03	7.13E-07	1.06E+00	2.02E-01
700	3.89E+01	5.98E+01	2.62E-03	5.59E-07	1.16E+00	1.76E-01
710	4.12E+01	5.74E+01	2.19E-03	4.38E-07	1.26E+00	1.52E-01
720	4.36E+01	5.49E+01	1.83E-03	3.43E-07	1.37E+00	1.32E-01
730	4.60E+01	5.24E+01	1.53E-03	2.67E-07	1.48E+00	1.14E-01
740	4.84E+01	4.99E+01	1.28E-03	2.08E-07	1.59E+00	9.79E-02
750	5.09E+01	4.73E+01	1.06E-03	1.62E-07	1.72E+00	8.42E-02
760	5.32E+01	4.49E+01	8.79E-04	1.26E-07	1.84E+00	7.22E-02
770	5.56E+01	4.24E+01	7.28E-04	9.74E-08	1.97E+00	6.17E-02
780	5.79E+01	4.00E+01	6.01E-04	7.53E-08	2.10E+00	5.27E-02
790	6.01E+01	3.76E+01	4.96E-04	5.81E-08	2.24E+00	4.49E-02
800	6.23E+01	3.53E+01	4.08E-04	4.48E-08	2.38E+00	3.82E-02

D-172; LAT-40; LON-45; LT-24; F-150; VΔV-150; A_p-100; UT1-21

80	5.45E-04	1.34E-03	2.08E+01	8.99E-01	1.57E-05	7.83E+01
90	6.08E-04	3.45E-01	2.04E+01	8.58E-01	1.02E-04	7.84E+01
100	9.49E-04	3.90E+00	1.84E+01	7.18E-01	1.63E-04	7.70E+01
110	2.41E-03	1.15E+01	1.42E+01	4.83E-01	3.63E-04	7.38E+01
120	6.48E-03	1.95E+01	1.04E+01	3.13E-01	6.11E-04	6.98E+01
130	1.71E-02	2.60E+01	8.10E+00	2.16E-01	7.21E-04	6.56E+01
140	3.47E-02	3.14E+01	6.80E+00	1.56E-01	7.48E-04	6.16E+01
150	5.30E-02	3.63E+01	5.90E+00	1.16E-01	7.59E-04	5.77E+01
160	7.38E-02	4.09E+01	5.18E+00	8.85E-02	7.91E-04	5.38E+01
170	9.84E-02	4.52E+01	4.55E+00	6.86E-02	8.58E-04	5.00E+01
180	1.28E-01	4.95E+01	4.00E+00	5.38E-02	9.68E-04	4.64E+01
190	1.62E-01	5.35E+01	3.51E+00	4.24E-02	1.13E-03	4.28E+01
200	2.02E-01	5.73E+01	3.07E+00	3.36E-02	1.34E-03	3.94E+01
210	2.49E-01	6.10E+01	2.69E+00	2.66E-02	1.62E-03	3.61E+01
220	3.03E-01	6.44E+01	2.34E+00	2.11E-02	1.97E-03	3.30E+01
230	3.66E-01	6.76E+01	2.03E+00	1.67E-02	2.40E-03	3.00E+01
240	4.39E-01	7.06E+01	1.76E+00	1.32E-02	2.92E-03	2.72E+01
250	5.22E-01	7.33E+01	1.53E+00	1.04E-02	3.56E-03	2.46E+01
260	6.17E-01	7.58E+01	1.32E+00	8.25E-03	4.32E-03	2.22E+01
270	7.26E-01	7.81E+01	1.13E+00	6.50E-03	5.23E-03	2.00E+01
280	8.50E-01	8.02E+01	9.74E-01	5.12E-03	6.31E-03	1.80E+01
290	9.91E-01	8.21E+01	8.36E-01	4.02E-03	7.59E-03	1.61E+01
300	1.15E+00	8.37E+01	7.16E-01	3.16E-03	9.10E-03	1.44E+01

z, км	He/S, %	O/S, %	O ₂ /S, %	Ar/S, %	H ₂ S, %	N ₂ /S, %
310	1.33E+00	8.52E+01	6.09E-01	2.46E-03	1.08E-02	1.28E+01
320	1.53E+00	8.65E+01	5.20E-01	1.93E-03	1.29E-02	1.14E+01
330	1.77E+00	8.76E+01	4.44E-01	1.51E-03	1.54E-02	1.02E+01
340	2.03E+00	8.85E+01	3.78E-01	1.18E-03	1.82E-02	9.04E+00
350	2.33E+00	8.93E+01	3.22E-01	9.24E-04	2.16E-02	8.02E+00
360	2.66E+00	8.99E+01	2.74E-01	7.22E-04	2.55E-02	7.11E+00
370	3.04E+00	9.04E+01	2.32E-01	5.63E-04	3.00E-02	6.30E+00
380	3.46E+00	9.07E+01	1.97E-01	4.39E-04	3.53E-02	5.57E+00
390	3.94E+00	9.09E+01	1.67E-01	3.42E-04	4.14E-02	4.93E+00
400	4.46E+00	9.10E+01	1.41E-01	2.66E-04	4.84E-02	4.35E+00
410	5.06E+00	9.09E+01	1.19E-01	2.07E-04	5.66E-02	3.83E+00
420	5.72E+00	9.07E+01	1.01E-01	1.61E-04	6.60E-02	3.38E+00
430	6.45E+00	9.04E+01	8.53E-02	1.25E-04	7.68E-02	2.97E+00
440	7.26E+00	9.00E+01	7.19E-02	9.73E-05	8.92E-02	2.61E+00
450	8.17E+00	8.94E+01	6.06E-02	7.55E-05	1.03E-01	2.29E+00
460	9.16E+00	8.87E+01	5.10E-02	5.85E-05	1.20E-01	2.01E+00
470	1.03E+01	8.78E+01	4.29E-02	4.53E-05	1.38E-01	1.76E+00
480	1.15E+01	8.68E+01	3.60E-02	3.51E-05	1.59E-01	1.54E+00
490	1.28E+01	8.57E+01	3.02E-02	2.71E-05	1.83E-01	1.35E+00
500	1.42E+01	8.44E+01	2.53E-02	2.09E-05	2.10E-01	1.17E+00
510	1.58E+01	8.29E+01	2.11E-02	1.62E-05	2.40E-01	1.02E+00
520	1.75E+01	8.13E+01	1.76E-02	1.24E-05	2.74E-01	8.88E-01
530	1.93E+01	7.96E+01	1.47E-02	9.56E-06	3.12E-01	7.71E-01
540	2.12E+01	7.77E+01	1.22E-02	7.34E-06	3.54E-01	6.67E-01
550	2.33E+01	7.57E+01	1.01E-02	5.62E-06	4.00E-01	5.76E-01
560	2.55E+01	7.35E+01	8.40E-03	4.30E-06	4.51E-01	4.97E-01
570	2.79E+01	7.12E+01	6.94E-03	3.28E-06	5.08E-01	4.27E-01
580	3.03E+01	6.88E+01	5.72E-03	2.50E-06	5.69E-01	3.66E-01
590	3.28E+01	6.62E+01	4.70E-03	1.90E-06	6.35E-01	3.13E-01
600	3.55E+01	6.35E+01	3.86E-03	1.44E-06	7.07E-01	2.67E-01
610	3.82E+01	6.08E+01	3.15E-03	1.09E-06	7.83E-01	2.27E-01
620	4.10E+01	5.80E+01	2.57E-03	8.19E-07	8.65E-01	1.92E-01
630	4.38E+01	5.51E+01	2.09E-03	6.16E-07	9.52E-01	1.63E-01
640	4.66E+01	5.22E+01	1.69E-03	4.62E-07	1.04E+00	1.37E-01
650	4.95E+01	4.93E+01	1.37E-03	3.45E-07	1.14E+00	1.15E-01
660	5.23E+01	4.64E+01	1.10E-03	2.58E-07	1.24E+00	9.65E-02
670	5.51E+01	4.35E+01	8.87E-04	1.92E-07	1.35E+00	8.06E-02
680	5.78E+01	4.07E+01	7.11E-04	1.42E-07	1.45E+00	6.72E-02
690	6.05E+01	3.79E+01	5.68E-04	1.05E-07	1.56E+00	5.58E-02
700	6.30E+01	3.52E+01	4.53E-04	7.78E-08	1.68E+00	4.62E-02
710	6.55E+01	3.27E+01	3.61E-04	5.73E-08	1.80E+00	3.82E-02
720	6.79E+01	3.02E+01	2.86E-04	4.21E-08	1.91E+00	3.15E-02
730	7.01E+01	2.78E+01	2.27E-04	3.09E-08	2.03E+00	2.59E-02
740	7.22E+01	2.56E+01	1.79E-04	2.27E-08	2.16E+00	2.13E-02
750	7.42E+01	2.35E+01	1.41E-04	1.66E-08	2.28E+00	1.74E-02
760	7.61E+01	2.15E+01	1.11E-04	1.21E-08	2.40E+00	1.43E-02
770	7.78E+01	1.96E+01	8.75E-05	8.83E-09	2.53E+00	1.16E-02
780	7.94E+01	1.79E+01	6.87E-05	6.44E-09	2.65E+00	9.49E-03
790	8.09E+01	1.63E+01	5.39E-05	4.68E-09	2.78E+00	7.72E-03
800	8.22E+01	1.48E+01	4.22E-05	3.41E-09	2.91E+00	6.28E-03

ИНФОРМАЦИОННЫЕ ДАННЫЕ

1. РАЗРАБОТАН И ВНЕСЕН Государственным комитетом СССР по гидрометеорологии

РАЗРАБОТЧИКИ

С. И. Авдюшин, д-р техн. наук; Г. Ф. Тулинов, канд. физ.-мат. наук (руководитель темы); М. Н. Власов, д-р физ.-мат. наук; А. А. Похунков, канд. физ.-мат. наук; В. Е. Давыдов, канд. физ.-мат. наук; А. Г. Федоров, канд. физ.-мат. наук; Н. И. Канцерская; И. И. Собельман, д-р физ.-мат. наук; Б. Ф. Гордиец, д-р физ.-мат. наук; Ю. Н. Куликов, канд. физ.-мат. наук; А. Н. Степанович, канд. физ.-мат. наук

2. УТВЕРЖДЕН И ВВЕДЕН В ДЕЙСТВИЕ Постановлением Государственного комитета СССР по управлению качеством продукции и стандартам от 27.12.90 № 3388

3. Срок первой проверки 1995, периодичность проверки 5 лет

4. ВВЕДЕН ВПЕРВЫЕ

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