THE UPPER ATMOSPHERE IN THE RANGE FROM 120 TO 800 KM

Proposal for a new edition of the COSPAR International Reference Atmosphere (CIRA) based on the directions established by the COSPAR Working Group IV in 1963/1964

compiled by

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= (s) s	(HC)	August 25, 1964 N67-18432	
CFSTI PRICE	Hard copy Microfiche	(PAGE 3) (PAGE 3) (CODE) (C	3

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LIST OF NOMENCLATURE

a p	three-hourly index of geomagnetic activity ("equivalent planetary amplitude")
A P	daily index ("daily equivalent planetary amplitude")
cp	specific heat at constant pressure
с _v	specific heat at constant volume
F	flux of the solar 10.7 cm radiation $(10^{-22} \text{ W/m}^2 \text{ c/s})$
F	10.7 cm flux averaged over 5 solar rotations (or 5 months)
g	acceleration of gravity of the earth (cm sec $^{-2}$)
Н	scale height (pressure scale height) (km)
k	Boltzmann constant (1.3805 x 10^{-16} erg [^o K] ⁻¹)
к	thermal conductivity coefficient
к р	three-hourly index of geomagnetic activity ("planetary three-hour index")
L	characteristic scale length
m(z,t)	coefficient in the density-solar flux relation (equ. (13))
m	mass of molecules or atoms (g)
М	molecular weight
n	total number density (cm ⁻³)
n. i	number density of molecules or atoms (cm^{-3})
ą	pressure (dynes cm ⁻²)

Homenel lin 2heat source (erg cm⁻³ sec⁻¹) Q gas constant (8.314 x $10^7 \text{ erg } [°K]^{-1} \text{ Mol}^{-1}$) R density (g cm^{-3}) Ø temperature (^OK) т local time (hours) t conductive time (in formula (10) only) t height (km) z height of lower boundary (120 km) z_o

1. Introduction

During the last years the structure of the upper atmosphere above 200 km and its variations have been thoroughly investigated, in particular by studying the orbital decay of a large number of satellites with perigee heights in the range from 200 to 1500 km. The changes in the orbital periods of satellites due to atmospheric drag have indeed been proved to be the so far most informative tool to study the atmospheric structure above 200 km and its time-dependent behavior.

The existence of the following variations in the almospheric densities has been established for the time interval from 1958 through 1963, which covers nearly a full phase of decreasing solar activity within the eleven-year solar cycle. The variations are:

- a diurnal variation with a density maximum at 14:00 hours local time and a minimum at 04:00 hours local time,
- a variation with an average period of 27 days correlated with the solar decimeter radio flux in the 3 to 30 cm wavelength range,

3) a semi-annual variation with a pronounced

minimum in June-July and a less conspicuous minimum in December-January,

- a long-term variation associated with the eleven-year solar cycle, correlated with the solar decimeter flux averaged over several solar rotational periods,
- 5) a variation correlated with geomagnetic activity.

It will not be possible here to acknowledge the numerous scientific papers which revealed and confirmed the effects mentioned above. We therefore refer the reader interested in the details and history of these discoveries to recent reviews by <u>Jacchia (1963 a, b, c)</u> and by <u>King-Hele (1963b</u>). Therein one will also find a discussion of how these effects are thought to be related to the physical processes in the thermosphere, in particular, to the heating of the atmospheric gases due to conversion of solar energy (either electromagnetic or corpuscular) into heat, and to the heat conduction (see also <u>MacDonald 1963</u>, and <u>Harris and Priester 1962a</u>). All recent theoretical investigations are based on the generally accepted assumption that diffusive equilibrium prevails in the thermosphere and

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lower exosphere for the main constituents. Mass spectrometer measurements with rockets revealed that diffusive separation sets in slightly above the mesopause (see the review by <u>Champion 1963</u>). Usually the height of the turbopause is taken for the onset of diffusive equilibrium. The turbopause, defined by the decrease of vertical turbulence, has been observed by cloud-release experiments on rockets generally at a height of about 105 km. For the lighter constituents of the atmospheric gases, the escape from the earth can distort the diffusive equilibrium for these particular constituents in the thermosphere, when the exospheric temperatures are high. <u>Bates and Patterson (1961)</u> and <u>Nicolet and Kockarts</u> (1962) have shown that this affects essentially only the vertical distribution of atomic hydrogen.

The first edition of the COSPAR International Reference Atmosphere (CIRA 1961) was the first international model to give an account of the diurnal variation of the thermospheric structure by presenting atmospheric parameters for the maximum - at 14:00 hours - and the minimum - at 04:00 hours -, besides a diurnal average. Since then, however, it has become apparent that with regard to the tremendous changes of the thermospheric and exospheric conditions during the

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solar cycle, any atmospheric model which gives only average conditions for a certain time or certain level of solar activity cannot fulfil the requirements for a reference model, which ought to provide an easy comparison between measurements of atmospheric parameters taken at different heights and different times.

Recognizing the need for a reference model which accounts for the essential variations in the structure parameters, the COSPAR Working Group IV decided, during its meeting in Warsaw in June 1963, to construct models for the thermosphere and exosphere in the range from 120 to 800 km for every two hours in local time. The variation within the solar cycle should be accounted for by selecting 10 different levels of solar activity. Since so far only density data from satellite drag analyses are available in sufficient number for constructing height- and timedependent models, it was decided that the models should be primarily based on the observed densities. We used the density data (or models) derived by Jacchia and Slowey (1962 and 1963), King-Hele (1963a), May (1962), Marov (1963), Paetzold (1963), Roemer (1963), and the recent density determinations from Explorer 17 by Bryant (1964), Champion et al.

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(1963), and <u>Slowey</u> (1964). For heights in the range from 120 to 200 km, density information is still very scarce (see, for example, Mikhnevich 1964). The models attempt to reach a reasonable agreement between the densities derived with the inflatable-sphere method below 130 km (see Champion's review 1963), and the requirement to represent the satellite drag data above 200 km. In the same way, the boundary values for the number densities of N_2 , O_2 , O and He were chosen as a compromise between recent mass spectrometer data (Pokhunkov 1963, Schaefer and Nichols 1963, Nier et al. 1964, and Spencer et al. 1964) and the necessity of representing the satellite densities. No attempt was made to change the boundary values with the level of solar activity during the eleven-year cycle since no observational evidence is as yet available. Temperature measurements by Blamont (1964) between 100 and 150 km indicate that there was no appreciable change during the years 1960 to 1964. These observations cover about half of the decreasing phase of the solar cycle. They therefore might be considered as a justification for using fixed boundary conditions for the temperature and the number densities at a height of 120 km. But a further investigation of this problem, in particular

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with a series of rocket experiments during a complete solar cycle is highly desirable. As far as a diurnal variation of the boundary conditions is concerned, a recent theoretical investigation by <u>Harris and Priester</u> (1964) revealed that diurnal variations of either the temperature or the number densities cannot be invoked for explaining the diurnal behavior of the upper thermosphere (above 200 km). On the other hand, Hall et al. (1963) and Kallmann-Bijl and Sibley (1964) derived larger diurnal variations in the number densities in the altitude range below 200 km than one would expect from models wherein diffusive equilibrium prevails above a certain turbopause height and where this height remains the same during the entire day. Since, however, the available evidence does not seem to be fully conclusive and sufficient, it was decided to maintain all boundary values at 120 km constant throughout the day and the solar cycle.

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2. <u>Basic Relations</u>

The physical procedure used to represent the aforementioned data in their dependence on height and time is based on the usual assumption that the following physical laws are applicable and sufficient to describe the behavior of the upper atmosphere in the range from 120 to 800 km.

The hydrostatic law provides a basic relation between the pressure gradient and the density:

$$\frac{d\rho}{dz} = \rho g \tag{1}$$

where p is the total pressure, ρ the density, g the acceleration of gravity and z the altitude above the surface of the Earth. Both pressure and density will be functions of altitude as well as time. Equation (1) describes a static equilibrium. Nevertheless it will be applied here to describe a quasi-hydrostatic equilibrium under the assumption that a sufficient hydrostatic balance is reached quickly at any time during the diurnal changes of temperature and density in the thermosphere.

It can be expected that the atmosphere behaves like a perfect gas according to the equation of state

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$$p = n k T$$

where n is the number density, k the Boltzmann constant (1.38 x 10^{-16} erg/^OK) and T the absolute temperature. As the upper atmosphere is a mixture of different constituents, we define the partial density ρ_i of the ith constituent by

$$p_i = n_i m_i \tag{3}$$

where n_i is its number density and m_i its mass. In the following we shall either use the mass m_i (in grams) or the corresponding molecular weight M_i based on the value 12.0000 for the C^{12} isotope of carbon.

The total number density used in (2) is simply the summation over all constituents

$$n = \sum_{i} n_{i} \qquad (4)$$

It is assumed that diffusive equilibrium prevails in the entire range of altitudes from 120 to 800 km for all constituents with the exception of hydrogen. Combining equations (1) and (2), one derives easily the following expressions for the partial pressures p_i , partial densities p_i , and partial number densities n_i for the different

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(2)

constituents

$$p_{i}(z,t) = p_{i}(z_{0},t) \exp \left[-\int_{z_{0}}^{z} \frac{m_{i}g(z)}{kT(z,t)} dz\right]$$
(5)

$$n_{i}(z,t) = n_{i}(z_{0},t) \frac{T(z_{0},t)}{T(z,t)} \exp\left[-\int_{z_{0}}^{z} \frac{m_{i}g(z)}{kT(z,t)} dz\right]$$
(6)

$$\rho_{i}(z,t) = \rho_{i}(z_{0},t) \frac{T(z_{0},t)}{T(z,t)} \exp\left[-\int_{z_{0}}^{z} \frac{m_{i}g(z)}{kT(z,t)} dz\right] (7)$$

Herein the lower boundary z_0 is either the height where 'diffusive equilibrium begins (below 120 km according to the conditions assumed herein) or the reference height $z_0 = 120$ km.

The mean molecular weight is defined by

$$M(z,t) = \frac{\sum_{i=1}^{n} (z,t) M_{i}}{\sum_{i=1}^{n} (z,t)}$$
(8)

and the scale height H

$$H = -\left(\frac{1}{p}\frac{dp}{dz}\right)^{-1} = \frac{R T(z,t)}{M(z,t) g(z)}$$
(9)

where R is the gas constant (R = 8.314 x 10^7 erg deg⁻¹ Mol⁻¹).

The main feature of the thermosphere is the rapid increase of the temperature above the mesopause (in the height range from 100 to 200 km) and the leveling off of the

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temperature distribution towards an isothermal layer in the upper thermosphere (z > 300 km) and exosphere. This property of the thermosphere is caused by the combined action of the heating from solar energy and of the heat conduction. In particular the rapid decrease of the conduction time with increasing height, which is essentially due to the increasing mean free path length for collisions in the exponentially decreasing density distribution, and the timedependence of the heating due to the rotation of the Earth determine the time variations in the thermosphere. The conduction time t is defined by

$$t = \frac{\rho C}{K} L^2$$
(10)

where C_v is the specific heat at constant volume, K the thermal conductivity, and L a characteristic scale length comparable to the scale height. In the upper thermosphere (z > 300 km), the conduction time is so short that a flat temperature distribution with height is reached at any moment regardless of the large diurnal temperature variations of several hundred degrees Kelvin. On the other hand, at 120 km, the conduction time is large compared with one day. Therefore the large temperature gradient is

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maintained and it cannot change considerably at this height within one day.

Due to the positive temperature gradient in the thermosphere, one does not expect any appreciable turbulent vertical convection. One has, however, to consider the transport of heat due to mass motion when the diurnal density bulge builds up in the morning and shrinks again after 14:00 hours local time. Furthermore the horizontal pressure gradients around the density bulge will cause large-scale horizontal motions. But since the horizontal scale heights are two to three orders of magnitude larger than the vertical scale heights, it is not expected that horizontal convection caused by the pressure gradients has a considerable influence on the diurnal behavior of the thermosphere. More detailed investigation on horizontal convection and conduction, however, seems to be desirable.

An expression for the time-dependent energy balance has been given by <u>Harris and Priester (1962a, 1963</u>) which includes heat conduction and the energy transport due to the diurnal expansion or contraction when the density bulge builds up in the morning and shrinks after 14:00 hours local time

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$$\frac{\partial}{\partial z}\left(K(T) \frac{\partial T}{\partial z}\right) - \rho C_{p} \frac{\partial T}{\partial z} \int_{z_{0}}^{z} \frac{1}{T^{2}} \frac{\partial T}{\partial t} dz' + \sum_{j} Q_{j}(z,t) = \rho C_{p} \frac{\partial T}{\partial t}$$
(11)

The first term is the vertical heat transport due to thermal conduction, the second term determines the energy transport due to the aforementioned expansion-contraction. The third term accounts for the different physical processes which provide the heat sources Q_{i} by absorption of solar energy and heat losses (taken as negative heat sources) due to reradiation (airglow in the infrared and optical wavelength range). In equation (11), K(T) is the thermal conductivity and C_p the specific heat at constant pressure. Harris and Priester carried out a simultaneous integration of equation (11) and (6) on an IBM 7090 computer with heat sources pro- ${f v}$ ided by the absorption of solar EUV radiation by atomic and molecular nitrogen, and a heat loss due to the reradiation of atomic oxygen in the infrared (transition from the ${}^{3}P_{1}$ to the ${}^{3}P_{2}$ level). The temperature and the number densities at the boundary ($z_0 = 120$ km) were maintained constant. It was shown that under these conditions the theoretical diurnal density variation could not be brought into agreement with the observed variation. In particular, the theoretical density maximum occurred at about 17:00 hours local time

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rather than at 14:00 hours where it was observed. Consequently an additional heat source ("second heat source") was introduced in such a way that agreement between the observed and the calculated densities and their diurnal variations was obtained. The real nature of this second heat source is not yet understood; it is, particularly, an open question as to what fraction of this heat source is required to account for the simplifications introduced in the theory rather than accounting for other energy sources than electromagnetic radiation from the sun. A recent refinement of the theory which accounts for lateral heat conduction in a preliminary way and also for the heat provided by the absorption of solar radiation in the Schumann-Runge wavelength range did not change the necessary requirement for the empirical correction term in the heat conduction equation (Harris and Priester 1964). Furthermore the effect of thermal diffusion for the lighter constituents (He and H) has been included.

Nevertheless, the computer program used by Harris and Priester provides a sufficient number of free parameters in order to reproduce the observed densities. The program is a convenient tool to fit the observed densities with a

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time-dependent model which is in agreement with the general physical laws and which also conserves the mass in a vertical cylinder above the height of 120 km during the diurnal density variation.

For these reasons, COSPAR Working Group IV decided, at its meeting in Warsaw in 1963, to make use of this computer program to reproduce the observed densities and, in particular, the time of the diurnal maximum which, according to observations in the height range from 350 to 800 km, remained constant at 14 hours during the years 1958 through 1963 (Jacchia 1964).

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3. The tables of the atmospheric properties in the range from 120 to 800 km for ten different levels of solar activity

In order to provide convenient interpolation, the Working Group decided to present the tables of the heterosphere for 10 different levels of solar activity. As the index for solar activity, the flux of the solar 10.7 cm radiation was chosen, since measurements at this wavelength have been carried out continuously since 1947 by the National Research Council of Canada. Jacchia (1963) and Paetzold (1963) have shown that both the 27-day variation and the solar-cycle variation of the atmospheric density and temperature can be correlated with the solar 10.7 cm flux F, but the dependence on F is different for the two effects. For the long-term solar cycle variation, an average flux is generally being used. As Roemer (1963) has shown, a flux averaged over 3 to 5 solar rotational periods is appropriate. Figure 22 and Table 1 show the monthly averages of the 10.7 cm flux for the years 1953 through 1963. Table 2 gives the averages over intervals of 5 months for the years 1953 through 1963. We shall designate these 5-monthly averages with \overline{F} and shall use these values to represent the smooth long-term variation of solar activity throughout this paper.

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Table 1

Solar Flux at 2800 Mc/s (10.7 cm)

recorded at National Research Council, Ottawa, Canada

Monthly Averages

DEC	69.6	74.2	132.3	249.0	282.0	234.0	179.0	136.0		81.0	77.0		
NON	70.5	71.7	128.5	247.0	256.0	207.0	183.0	147.0	89.0	84.0	81.0		
OCT	71.5	72.7	111.1	200.0	281.0	226.0	164.0	141.0	96.0	87.0	84.0		
SEP	74.1	69.9	94.8	200.0	266.0	243.0	194.0	164.0	112.0	89.0	85.0		
AUG	75.4	69.8	90.6	194.0	202.0	237.0	234.0	174.0	106.0	77.0	81.0		
JUL	69.8	67.7	87.3	163.0	218.0	224.0	203.0	164.0	116.0	81.0	76.0		
NUC	73.0	67.3	88.8	154.0	252.0	220.0	217.0	162.0	110.0	91.0	83.0	69.0	
MAY	72.5	68.0	82.7	163.0	208.0	219.0	213.0	163.0	0.66	98.0	88.0	69.1	
APR	80.9	68.6	77.2	166.0	200.0	246.0	210.0	167.0	105.0	96.0	79.0	73.0	
MAR	70.1	71.6	74.5	160.0	197.0	250.0	228.0	146.0	104.0	100.0	78.0	75.0	
FEB	72.2	68.6	81.3	166.0	185.0	210.0	206.0	169.0	105.0	101.0	,79.0	76.0	
JAN	82.0	67.7	83.1	139.0	228.0	248.0	271.0	200.0	120.0	93.0	78.0	74.0	•
	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	
	- 16 -												

Table 2

Solar flux at 2800 Mc/s (10.7 cm)

Averages over 5 Months F

		DEC		69.6	76.6	135.4		221.8	255.4		228.8	179 0)	129.8	6			78.4
		NOV		70.7	74.3	121.1		224.8	266.6		236.2	184.0		-6- -	96.6	83		80.2
		OCT	0 1 1	12.2	71.7	111.5	() () () ()	0.212	257.4		4 7 7 7 7 7	190.8	۰ د ۲	7. 20 -1	99.2	83.6		0.10
	ດ ເມ	4770	с с с	N	70.4	102.5	000	0.00	244.6	V 200		195.6	с агг		T03.8	83.6	81 4	וייי א א געני
	AIIC		72.8		0 0 0	94.5	182.9		243.8	230.0		202.4	1.61.0		n. 00	85.0	81.8	
-			73.0	и cc		ది ల	174.8	((((× × 2 × 2	228.6	(((2.272	165.4	ν αU[0.00	87.2	82.6	
	NO.C		74.3	68.3		20. 20. 2	168.0	016		229.2	א חונ	4-0-4	166.0	107.2		්ස : රිසි : 6	84	
_	MAY		73.3	68 . 6			161.2	215.0		231.8	214.0	•	160.4	106.8		93.2	80.8	
	APR		73.7	68. 69	0 20	•	1.62.8	208.4		229.0	2.1.4.8		161.4	104.6	r C	7.12	81.4	
	MAR		75.5	68.9	79.8		158.8	203.6		234.6	225.6		169.0	1.06.6			80.4	
	FEB		77.9	69.2	78.1	(]	152.7	211.8	:	241.2	229.8		172.2	114.0	96.6		79.0	-
	JAN	1	78.2	69.6	77.0		· · · · · · · · · · · · · · · · · · ·	22].2		N. 	229.2	L	4.15.4	122.4	95.2		80.0	-
11	ы 		1. 2. 2.	195A	1955	1986		1957	1959 	- 7 -	. 19 59	1960		1961	1962		COAT	

In order to establish the solar cycle variation, the observed densities had to be reduced for the 27-day variation and for the relation with geomagnetic activity. Furthermore, the semi-annual variation had to be taken into account. For the reduction of the 27-day variation in the densities, an empirical relation derived by Roemer (1963) has been used. It depends on height and local time (see also Priester 1961). For the "geomagnetic" effect, Jacchia's (1963) formula for the change of the atmospheric temperature with . the geomagnetic index A has been used to convert temperature changes into density changes by means of a theoretical For the most recent findings concerning the geomodel. magnetically quiet periods see chapter 5 of this paper. With respect to the semi-annual variation, it was decided to use the averages for the months September through November as standards (see chapter 5). These averages usually coincide with the values for the March maximum.

It then was attempted to derive the models in such a way that their densities represent the atmospheric conditions for the following 5-month average solar 10.7 cm fluxes: $\overline{F} = 275, 250, 225, 200, 175, 150, 125, 100, 75$ and 65. For the latter ($\overline{F} = 65$), an extrapolation had to be made which

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is a little uncertain since the solar minimum had not been reached by the end of the time-interval covered by the observational data. A similar uncertainty exists for the high values ($\overline{F} \ge 225$).

Since the relation between the atmospheric structure and the average 10.7 cm flux could only be established for a large portion of the decreasing phase of solar activity and since for the forthcoding increasing phase the relation may not be identical, we shall not label the models with the average 10.7 cm flux, but rather give the relation between the model numbers and the \overline{F} values in a separate table (Table 3). Occasionally we shall also denote the models 1 to 3 as models for low solar activity ($\overline{F} = 65...100$), the models 4 to 6 as models for medium solar activity ($\overline{F} = 125...175$), the models 7 to 9 as models for high solar activity ($\overline{F} = 200...250$), and model 10 for extremely high solar activity.

The tables present the autospheric parameters for every two hours of local time. The models apply to the equatorial and temperate zones of the earth. No attempt has been made to include the dependence of the atmospheric structure on the latitude, since the amount of information available at present is not yet sufficient.

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Model No	म्त्र।	т (MAX) ° _к	T (MIN) ^O K	Ā	۵T' (Ā)
				4	<u> </u>
1	65	1024	705	2	19
2	75	1064	731	_ 2	19
3	100	1184	805	3	27
4	125	1318	885	4	34
5	150	1460	979	6	48
6	175	1585	1053	8	59
7	200	1729	1159	10	69
8	225	1845	1229	11	73
9	250	1969	1317	12	- 77
10	275	2083	1413	13	81

Relation between the model numbers and the 5-month averages of the solar 10.7 cm flux \bar{F}^{\ast}

*derived from data obtained during the decreasing phase of the solar cycle. The unit of \overline{F} is 10^{-22} W/m² c/s. Furthermore the maximum and minimum of the diurnal temperature variation is listed for each model. Also the average \overline{A}_p value for each model is given in the next to the last column. The last column gives the correction $\Delta T'(\overline{A})$ which has to be subtracted from the nighttime temperature T(MIN)in order to reduce it to $\overline{A}_p = 0$, since in deriving the models a correction formula was used which is in the meantime superseded by new findings (see chapter 5). The heights are given in steps of 10 km from 120 to 300 km, and in steps of 20 km from 300 to 800 km. The quantities listed are: temperature ($^{\circ}$ K), density (g cm⁻³), pressure (dyne cm⁻²), scale height (km), mean molecular weight, and the number densities for N₂, O₂, O, He and A (cm⁻³). Number densities for hydrogen are given for heights above 500 km only, since below this level the contribution of hydrogen to the atmospharic density is completely negligible. The numerical values for the number densities of hydrogen at 500 km were chosen in general agreement with the values given by <u>Kockarts and Nicolat</u> (1963).

In the Figures 1 to 18 the dependence of the temperature, the density, the number densities of N_2 , O_2 , O, He, A and H, the mean molecular weight and the scale height on either local time or height is given for 3 selected models: No. 2 representing low solar activity ($\overline{F} = 75$), No. 5 for mean activity ($\overline{F} = 150$) and No. 9 for very high solar activity ($\overline{F} = 250$). In the cases where the dependence on height is shown, four values of local time - 04, 10, 14 and 20 hours - have been selected as parameters.

Figs. 19 and 20 show, for every two hours in local

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time, the relation between the exospheric temperatures and the 5-monthly averages \overline{F} of the solar 10.7 cm flux which represent the long-term variation of solar activity. In Fig. 21 an example for the agreement between a few observational data and the corresponding models is graphically presented. Due to the complicated dependence of the atmospheric parameters on the different effects which act in the upper atmosphere, it was not possible to show how the models represent the huge number of measurements, in particular, the numerous density values derived from satellite drag data.

4. The accuracy of the data

In the following part, an attempt will be made to evaluate some estimates about the accuracies of the listed quantities. If densities are derived from precisely observed changes in the orbital period of a satellite by accounting for how the orbit intersects the diurnal bulge ("integration of the drag force along the orbit by means of an auxiliary model with diurnal bulge"), one might safely assume that the essential uncertainty lies then only in the product of drag coefficient C_{D} , area to mass A/m and in the accuracy of the auxiliary density ratio model being used. The precision of the orbital data, in particular of the period, might be judged from the correlation between the period variations and the solar 10.7 cm flux and the geomagnetic flux A $_{\rm p}$ or a $_{\rm p}$, since it has been established that the most precisely reduced drag data show the best correlations with the solar and geomagnetic indices. For spherical satellites, the uncertainty of the drag coefficient is likely to be less than \pm 10 percent. For nonspherical satellites, the uncertainty of the abovementioned product C_{D} A/m might amount to ± 25 percent or more, in

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particular if the tumbling mode is unknown. A serious limitation on the accuracy can exist if densities are derived from oddly shaped satellites with parigae heights above 400 km, since for those satellites the effect of solar radiation pressure cannot be properly taken into account (Tacchia 1963). On the other hand, since the model densities are derived from neveral satellites, the uncertainty of the model will, in general, be smaller than 25 percent. From Roemer's diagram (1963, Fig. 5.17) on the relation between average solar fluxes and model numbers of the Harris-Priester (1962) models derived from seven satellites at different levels of solar activity, and learns that all carefully reduced data are scattered around a linear relation in a way which corresponds to a maximum deviation of ± 25 percent in the individual densities (taken at a height of 500 km). Correspondingly, the mean error can be estimated as \pm 10 percent.

The accuracy of the number densities of the main constituents N_2 , O_2 and O can only be roughly estimated from the disagreement of the different mass spectrometer results and also from the determination based on the attenuation of solar EUV rediation in the lower thereesphere.

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A comparison shows that a systematic uncertainty of a factor of two might still exist in some of the measured number densities. Since the temperatures derived from the density distribution depend essentially on the number densities of atomic oxygen, the systematic error of the absolute values of the exospheric temperatures might amount to \pm 10 percent, although an error in excess of 5 percent seems not very likely. This follows from an investigation of the possibility of matching the observed densities using considerably different boundary values for the main constituents (Stein and Walker 1964). The uncertainty of the temperature at 120 km might be as large as \pm 25 percent.

It is likely that the temperature, the density, and consequently the number densities at 120 km undergo systematic changes within the 11-year solar cycle. These variations might even exceed the limits of \pm 25 percent for the temperature and the factor of two for the density and number densities. It is urgently desirable to measure the atmospheric parameters in the lower thermosphere, in particular at the boundary height of 120 km, for an entire solar cycle.

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Another uncertainty exists in the choice for the height of the so-called "diffusion level" ("turbopause"). For calculation purposes it is generally assumed that mixing prevails in the atmosphere up to a certain height and that diffusive equilibrium exists above this height. This can certainly be regarded as an approximation only. Within this scheme it is essential to establish the proper height for this level. In the models presented here the level was chosen to be 115 km above the earth's surface for the heavier constituents (N_2 , O_2 , O and A) as a compromise between direct density measurements and the mass spectrometer data (see the references in chapte, 1).

The uncertainty of the number densities of helium depends merely on the uncertainty of the altitude where diffusive equilibrium is reached for this constituent; furthermore it depends on the largely unknown thermal diffusion coefficient. A relatively low height is assumed for the onset of diffusion (100 km) for helium. Thermal diffusion has been taken into account. The reason for choosing the rather low diffusion level was to provide a sufficient number of helium atoms at heights above 600 km for low levels of solar activity in order to account for

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the observed curvature in the density curves (see <u>King-Hele</u> <u>1963</u>; <u>Harris and Priester 1963</u>). It was concluded that no other constituents in an isothermal exosphere could provide the observed curvature. It could only be explained by a transition from the atomic oxygen layer to a layer where helium is the dominant constituent. All conclusions, therefore, on the helium number densities depend strongly on the validity of the observed curvature in the density distribution.

Still very problematic is the accuracy of the number densities of atomic hydrogen, since there are no direct measurements available yet. Furthermore the combined action of escape and diffusion determine the total amount of hydrogen in the heterosphere and the hydrogen distribution with height. <u>Kockarts and Nicolet (1963</u>) furnished detailed calculations on the hydrogen distribution based on an assumed boundary value of 10^7 cm⁻³ at 100 km. Since the escape strongly increases with the exospheric temperature, we find less hydrogen atoms at a height of 500 km during periods of high solar acitivity than at the solar minimum. For all these reasons the number densities of hydrogen are highly uncertain and should merely be

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regarded as an example to demonstrate their behavior during the solar cycle. Up to heights of 800 km the contribution of hydrogen to the total density is negligible, even for very low solar activity, when the diurnal average temperature is about 860 ^OK. Even for this low temperature, the contribution of atomic hydrogen to the total density is only a few percent.

In the following table we summarize the estimated total ranges of uncertainty due to systematic errors for the main physical parameters.

> Total density: (long term behavior for March o.: September-December averages (semiannual effect!) after short term variations (27-day variation, geomagnetic effect) have been reduced for)

titude km	error (percent) high solar activity	error (percent) low solar activity
1.20	± 50	± 50
200	+ 40, - 10	± 25
300	+ 40, - 10	± 25
400	± 25	± 25
600	± 25	± 25
800	?	± 25
300 400 600 800	+ 40, - 10 ± 25 ± 25 ?	± 25 ± 25 ± 25 ± 25

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Temperature

<u>altitude</u>	error (percent)
120	± 30
200	± 20
300	± 15
400	± 10
600	± 10
800	± 1.0

<u>Number densities at 120 km</u>: The range of uncertainty is represented by two factors with which the given numerical values ought to be multiplied. The estimated Jactors are for N_2 , O_2 , O, He and A:

0.5 and 1.5.

As far as the accuracy of the hydrogen number densities is concerned, an estimate is difficult to obtain, since there are no measurements yet for the densities of neutral hydrogen. Furthermore the escape of hydrogen is sensitively dependent on the exospheric temperature. Therefore any systematic errors in the temperatures will change the accumulation of hydrogen during the decreasing phase of the solar cycle. Thus the given number densities of hydrogen

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should be merely considered as a guide for the order of magnitude. This statement is in concordance with <u>Kockarts</u> and <u>Nicolet (1963</u>). One can see from the new tables that even for very low solar activity with a diurnal average temperature in the exosphere of 870 $^{\circ}$ K the contribution of hydrogen to the density is negligible up to a height of 800 km.

The error values given above define the estimated total range of uncertainty due to possible systematic errors for the long-term variation of the atmospheric parameters with the eleven-year solar cycle. If one, however, wants to compare individual measurements of atmospheric parameters with the corresponding model values, one has to allow for the short-term variations described under items 2, 3 and 5 in the introduction to this section or in more detail in <u>Jacchia's (1963, 1964</u>) review. In the following chapter we shall describe the way to account for these effects.

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5. <u>Comparison with individual measurements of atmospheric</u> parameters.

For the comparison of model data with individual measurements of atmospheric parameters one has to account for the 27-day variation, the semi-annual variation and the geomagnetic activity effect, since the models provide only the smooth long-term variation of the upper atmosphere in its dependence on the time within the eleven-year solar cycle and the dependence on local time within the diurnal variation. The long-term variation of the atmosphere is related to the solar decimetric flux when averaged over 5 solar rotational periods. For convenience we might use the 5-monthly averages of the solar 10.7 cm flux \overline{F} as given in Table 2. Therefore the atmospheric parameters for each individual value of \overline{F} can be found by interpolating between the corresponding models according to Table 3. The exospheric temperatures in their dependence on F are also conveniently read off from Fig. 19 and 20 for every even hour in local time.

Relatively simple and sufficiently accurate formulae have been derived for the short-period variations of the exospheric temperature from the statistical analysis of

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satellite drag measurements. The formulae given below are based on the work by Jacchia and Slowey (1962, 1963, 1964) (see Jacchia 1964), Paetzold (1964), Roemer (1963), May (1962) and Newton et al. (1964). It seems most convenient to follow essentially the procedure proposed by Jacchia (1964), that is, to apply the correction formulae as given below to the nighttime minimum temperature and then to find the other atmospheric parameters by interpolating the models corresponding to the calculated nighttime minimum temperature.

a) The 27-day variation

The difference between the exospheric temperature for a given value F of the solar 10.7 cm flux and the model temperature corresponding to \overline{F} , the 5-monthly 10.7 cm flux average, is, for the nighttime minimum (04 hours local time), given by

 $\Delta T = 1.9 (F - \overline{F}) [^{\circ} K] (Jacchia 1964).(12)$

The delay time for the response of the atmosphere to variations in the heat source as represented by the values F of the 10.7 cm radiation has been found to lie between 0.5 ± 0.3 and 2.1 days (for details see <u>Jacchia</u>'s review

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1964 and Bourdeau et al. 1964). It is therefore advisable to use the measured 10.7 cm flux of the preceding day, if one wants to calculate the temperature or density for a particular day.

If one is only interested in the densities one might use the relation

$$\log \rho = m(z,t) (\log F - \log \overline{F})$$
(13)

where m(z,t) is an empirical factor derived from the statistics of the 27-day variation of the densities by Roemer (1963). The following values might be used

Table 4

$\frac{1}{1}$ $\frac{1}$									
Loc. time t (hours)	height Z (km)								
	200	300	400	500	\geq 600 km				
0 - 8	0.3	1.0	1.7	2.2	2.7				
8 - 12	0.3	.85	1.4	1.7	2.0				
12 - 20	0.3	.7	1.1	1.2	1.3				
20 - 24	0.3	. 85	1.4	1.7	2.0				
	•								

Factor m(z.t) in Formula (12)

The accuracy of the coefficients in formulae (12) and (13) is not too exactly known yet, since they might

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(13)

themselves depend on the eleven-year solar cycle. Furthermore, the relation between the 10.7 cm flux F and the related heat source of the atmosphere might not be perfect and might not remain exactly the same for a whole solar The heat source responsible for the 27-day variacycle. tion is generally believed to be the absorption of solar extreme ultraviolet radiation, more or less exclusively. The OSO-1 satellite revealed a close proportionality between the averaged EUV flux and the solar 10.7 cm flux for the spring of 1952 (Neupart et al. 1954). From these considerations one can expect the error in the temperature correction AT to be between \pm 10 and \pm 20 percent. A rough estimate might also be obtained for each individual date from the change in the daily flux values F on the preceding days, since it cannot be firmly decided yet whether the response time of the atmosphere is closer to two days or only a few hours. Thus the difference between the AT values obtained for the two preceding days reveals an individual estimate of the accuracy for each case.

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b) The geomagnetic activity effect

In two recent analyses of the variations in the upper atmosphere and their relations to the indices of the geomagnetic disturbances (Jacchia and Sloway 1964, Newton et al. 1964), it was discovered that during quiet intervals $(A_p < 20, K_p < 4)$ the heating of the thermosphere depends much stronger on small variations of geomagnetic activity than was realized before. This led to an improved relation between the additional heating of the upper atmosphere and the index a_p . Jacchia gives, in the updated version of his review on atmospheric structure (1964), the following expression for the increase of the exospheric temperature with the three-hourly index of geomagnetic activity a_p

$$\Delta T = 1.0 a_{p} + 125^{\circ} [1 - exp(-0.03 a_{p})]. \qquad (14)$$

From a discussion of the density gauge measurements on Explorer XVII (<u>Newton et al. 1964</u>) and the drag data (<u>Slowey 1964</u>), one obtains a somewhat simpler analytical expression for the range from $a_p = 2$ to $a_p = 150$. The change of the exospheric temperature is represented by

$$\Delta T = 125^{\circ} \cdot \log \frac{a_{\circ}}{2} . \qquad (15)$$

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The zero-point of ΔT in this relation is chosen for $a_p = 2$. This yields the factor 1/2 in formula (15). The scatter of the individual data around these analytical expressions is of the order of \pm 50 ^OK.

The following table gives a comparison of the two formulae (14) and (15). One sees that in a wide range the agreement between the values if far within the scatter of the individual data. As far as the range $a_p < 2$ is concerned, there is no conclusive information yet on how the extrapolation to $a_p = 0$ should be made and what kind of analytical expression represents the real behavior best.

Table 5

Comparison of the increase of the exospheric temperature as a function of a_p according to formulae (14) and (15)

					· ·
a g	equ. (14) AT [^O K]	equ. (15) ^{AT} [^O K]	a p	equ. (14) ^{AT} [^O K]	equ. (15) A ^T [° _K]
0	0		30	144	147
1	11		40	160	163
2	21	0	50	173	175
3	30	22	70	195	193
4	38	38	100	225	212
5	46	50	150	275	234
7	61	68	200	325	(250)
10	79	87	250	375	(264)
20	120	125			
	1	1		1	1

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The geomagnetic index used so far was the three-hourly planetary index a_p . Often it is sufficient to use the daily average $A_p = \frac{1}{8} \Sigma a_p$. One can easily see that the formulae (14) and (15) can also be used for A_p if the a_p values do not deviate too much from their average value during the 24-hour period, that is, if the expression for an average of the logarithm $\log A'_p = \frac{1}{8} \Sigma \log a_p$ yields essentially an identical value for A_p as the linear average $A_p = \frac{1}{8} \Sigma a_p$.

How shall the correction for the exospheric temperature be applied to the model temperatures? Since the importance of the additional heating of the thermosphere during small changes of a_p at geomagnetically quiet periods was only recently discovered after the tables for the 10 different levels of solar activity were already produced, it was not possible in this edition to reduce all models to exactly the same value of a_p , for example, to $a_p = 2$ or even $a_p = 0$. An examination of the basic satellite drag data from which the models are derived showed that the models for high solar activity correspond to an average \overline{A}_p level of about 10, whereas the models for low activity correspond to an average \overline{A}_p of about 2. There is a gradual increase in the average

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 \overline{A}_{p} level of the models from model 1 to 10. The values are given in the second to the last column of Table 3 in Chapter It must be left to a future improvement of the atmospheric 3. tables to provide models all reduced to the same A level using the improved relation given in formula (14). In deriving the exospheric temperature for a certain date represented by F, F and A, one has to allow for this shortcoming of the tables when correcting the exospheric temperature for the proper A value. After one has derived the exospheric temperature for the given \overline{F} (from Fig. 19 or 20 or from interpolation of the models) and has corrected for the 27-day variation (formula 12)), one can correct for the geomagnetic activity effect by means of formulae (14) or (15) in the following way. The correction to the exospheric temperature is

 $\Delta T = \Delta T(A_p)$ [from equ. (14) or (15)]- $\Delta T'(\overline{A_p}[\text{from Table 3}])$

(16)

If the temperature increase due to the geomagnetic activity effect is to be known with a higher time resolution than one day, one has to use the corresponding threehourly index a instead of A in formula (16). In this case, however, one has to allow for the reaction time of the upper atmosphere to changes in a_p . From various storms

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it is found that this reaction time is approximately 6 hours. Thus one ought to use the a value for 6 hours earlier than the time for which the exospheric temperature is to be derived. Whether the delay time depends also on local time and on latitude is not yet known. The possible dependence on latitude, however, is believed not to be important here, since the models apply to the equatorial and temperate zones only.

c) The semi-annual variation

The semi-annual variation in atmospheric densities is now observed over a time-period of 6 years. The height interval of the observations ranges from 200 to 1600 km. The variation seems to occur with considerably more regularity than the similar variation in the geomagnetic indices. The main properties of the semi-annual variation in the densities and henceforth in the temperatures are a pronounced minimum in June-July and a somewhat less conspicuous minimum in January. The maximum in September -October usually appears to be somewhat higher than the maximum in March-April. The different depths of the two maxima led <u>Paatsold (1963</u>) to separate this

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effect into a semi-annual and an annual component. There is, however, no general agreement as to whether this separation also reflects two different physical processes. It is furthermore still controversial whether the semi-annual variation is related to the solar wind as an energy source or to a systematic global convection pattern.

Despite these open problems it is, however, felt that the statistical evidence is already sufficient to provide a rough correction formula again for the exospheric temperature. It will be very important to prove whether the essential shape of the semi-annual variation remains the same for the forthcoming increasing phase of solar activity in 1965-1968.

The models presented here have been adjusted to the semi-annual variation in a way that they represent the atmospheric parameter at the maximum of the effect in March-April and an average of the parameters over the usually higher fall maximum, averaged for the months September, October, November. For these reasons the correction formula for the semi-annual variation to be applied here will differ by an additional quantity from those given by <u>Paetzold (1964</u>) or <u>Jacobia (1964</u>). The

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difference between the excepheric temperature for a certain date and the temperature calculated from \overline{F} , F and A_{D} is

$$\Delta \mathbf{T} = \left\{ \left(0.39 + 0.15 \sin \left(2\pi \frac{d - 172}{365} \right) \right) \quad \sin \left(4\pi \frac{d - 80}{365} \right) - \left(0.30 \right) \right\} \mathbf{F}$$
(17)

Here d is the date in days counted from January 1 of each year.

In Fig. 13 of <u>Jacchia's review (1964</u>) the behavior of the semi-annual variation from 1958 until 1963 is plotted. It can be seen that the oscillation exists in each of these years in generally the same shape, but it is also seen that the time of the maxima or minima might vary by well over a month. This provides some insight into how well this effect can be taken into account and what the accuracy of the reduction procedure is.

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d) <u>Summary of the reduction procedure</u>

In order to find the atmospheric model parameters (temperature, density, pressure, scale heights, number densities or mean molecular weights) for a certain date and certain hour of local time for a location in the equatorial or temperate zone of the earth at a height between 120 km and 800 km, one has to follow the following Calculate the average of the solar 10.7 cm flux \overline{F} steps: over a period of 5 solar rotations. (5-monthly averages for 1953 - 1963 are given in Table 2. They might conveniently be used.) Then take the solar 10.7 cm daily flux value F for the day preceding your date. (The 10.7 cm flux values are measured by the National Research Council, Ottawa, Canada. They are published in the monthly issues on "Solar Geophysical Data" by the U.S. National Bureau of Standards, Central Radio Propagation Laboratory, Boulder, Colorado.) Next obtain the geomagnetic index a for the time 6 hours before your time. These can be derived from the indices K published monthly in the Journal of Geophysical Research by using the following conversion table (Bartels 1957):

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 $K_{p} = 00 \ 0 \div 1 - 10 \ 1 \div 2 - 20 \ 2 \div 3 - 30 \ 3 \div 4 - 4$ 40 4+ $a_{\rm p} = 0 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7$ 12 9 15 18 22 27 32 $K_{n} = 5-50$ 5+ 6- 60 6+ 7- 70 7+ 8- 80 8+ 9-90 $a_{p} = 39$ 48 56 67 80 94 111 132 154 179 207 236 300 400 Then proceed as follows:

1) First find the nighttime exospharic temperature $T_{04}^{(1)}$ (at 04 hours local time) corresponding to \overline{F} from Figs. 19 or 20 or by interpolating the models by means of Table 3. Reduce to $\overline{A}_p = 0$ by subtracting the appropriate value of $\Delta T'$ as given in Table

2) Correct for the 27-day variation. The corrected nighttime temperature $T_{OA}^{(2)}$ is

 $T_{04}^{(2)} = T_{04}^{(1)} + 1.9 (F - \overline{F})^{-1} [^{\circ}K]$ (18)

(The solar 10.7 cm flux is supressed in units of 10^{-22} W/m² c/s.) The response time of the subsphere is approximately accounted for by using the F-value for <u>one</u> day prior to the date.

3) Correct for the geometric activity effect. The corrected nighttime temperature $T_{0,2}^{(3)}$ is

 $T_{04}^{(3)} = T_{04}^{(2)} + 1.0 a_{p} + 125^{\circ} [1 - \exp(-0.03 a_{p})] [^{\circ}K]$ (19)

Account approximately for the reaction time by taking the -

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a value for a time 6 hours prior to your time.

4) Correct for the semi-annual variation. The corrected nighttime temperature $T_{04}^{(4)}$ is

 $T_{04}^{(4)} = T_{04}^{(3)} + \left\{ \left(0.39 + 0.15 \sin\left(2\pi \frac{d-172}{365}\right)\right) \sin\left(4\pi \frac{d-80}{365}\right) - 0.30\right\} \overline{F}^{(20)}$

Here d is the day within the year (Jan. 1 corresponding to

d = 1).

5) Interpolate the models corresponding to $T_{04}^{(4)}$ in order to find the corresponding values of the temperature, density, pressure, etc. for the local time for which you want to know the atmospheric parameters.

This procedure can, of course, only be approximately correct, since it is essentially based on the presumption that the height dependences of the different heating mechanisms which cause the three aforementioned effects are nearly the same. Nevertheless, the proposed procedure for finding the atmospheric parameters seems to provide reasonably useful results.

From the discussion in the last two chapters, in particular on the accuracies of the model data, it is evident that the meaning of our set of reference models

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cannot be to provide exact values of the atmospheric parameters for each moment and location but is intended rather to provide a tool for the intercomparison of forthcoming measurements which in general will have been taken at different times and locations. These comparisons in turn might then lead to an improvement of our knowledge of the behavior of the upper atmosphere and of the important physical processes which determine the atmospheric structure and its dependence on time with short-period and long-term variations. We are hopeful that the models presented here prove to be helpful in this respect.

Acknowledgements:

We express our appreciation to Mr. E. Monasterski and Mr. J. Borgelt for their valuable assistance in programming and preparing the extended numerical procedure for an IBM 7094 computer.

One of us (W. Priester) is obliged to the U.S. National Academy of Sciences - National Research Council for a Senior Research Associateship.

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FIGURE CAPTIONS

- Fig. 1: Temperature of the upper atmosphere as a function of height in the range from 120 to 800 km for 4 selected hours of local time (04, 10, 14 and 20 hours) during a low level of solar activity (F = 75). (From Model 2)
- Fig. 2: Temperature versus height (same as in Fig. 1) for mean solar activity as represented by an average solar 10.7 cm flux $\overline{F} = 150$ (in units of 10-22 W/m^2 c/s). (From Model 5)
- Fig. 3: Temperature versus height (same as in Fig. 1) for very high solar activity ($\overline{F} = 250$). (From Model 9)
- Fig. 4: Logarithms (base 10) of the density in the height range from 300 to 800 km for 4 selected hours of local time (04, 10, 14 and 20 hours) during low solar activity ($\overline{F} = 75$). (From Model 2)
- Fig. 5: Logarithms of density versus height (same as in Fig. 4) for mean solar activity ($\overline{F} = 150$). (From Model 5)
- Fig. 6: Logarithms of density versus height (same as in Fig. 4) for very high solar activity ($\overline{F} = 250$). (From Model 9)
- Fig. 7: Temperature versus local time for a height of 300 and of 600 km above the Earth's surface for three levels of solar activity: low (F = 75) - Model 2, mean (F = 150) - Model 5, and very high (F = 250) - Model 9.
- Fig. 8: Log density versus local time for every 100 kmfrom 300 to 800 km for low solar activity (F = 75). (From Model 2)
- Fig. 9: Log density versus local time (same as in Fig. 8) for mean solar activity ($\overline{F} = 150$). (From Model 5)

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- Fig. 10: Log density versus local time (same as in Fig. 8) for very high solar activity ($\overline{F} = 250$). (From Model 9)
- Fig. 11: Mean molecular weight versus height in the range from 120 to 800 km for 4 selected hours of local time (04, 10, 14 and 20 hours) for the three levels_of solar activity: low ($\overline{F} = 75$) - Model 2, mean (F = 150) - Model 5 and very high ($\overline{F} = 250$) - Model 9.
- Fig. 12: Scale height versus height in the range from 120 to 800 km for 4 selected hours of local time (04, 10, 14 and 20 hours) for the three levels of solar activity: low (F = 75) - Model 2, mean (F = 150) - Model 5 and very high (F = 250) - Model 9.
- Fig. 13: Logarithms (base 10) of the number densities of N_2 , O_2 , O, A, He and H versus height in the range from 120 to 300 km for 04 hours local time and low solar activity ($\overline{F} = 75$). (From Model 2)
- Fig. 14: Same as Fig. 13, but for 14 hours local time. (From Model 2)
- Fig. 15: Same as Fig. 13, but for mean solar activity (F = 150). The local time is 04 hours. (From Model 5)
- Fig. 16: Same as Fig. 15, but for 14 hours local time. (From Model 5)
- Fig. 17: Same as Fig. 13, but for very high solar activity $(\overline{F} = 250)$. The local time is 04 hours. (From Model 9)
- Fig. 18: Same as Fig. 17, but for 14 hours local time. (From Model 9)
- Fig. 19: The solar-cycle variation of the exospheric temperature plotted as a function of the level of solar activity which is represented by the

- Fig. 19: 5-monthly averages F of the solar 10.7 cm flux. (cont.) Here the values are given for every two hours in local time from 04 to 14 hours.
- Fig. 20: Same as Fig. 19. Here the exospheric temperatures are given for every two hours in local time from 16 to 02 hours.
- Fig. 21: Comparison of the models 7 ($\overline{F} = 200$) and 2 ($\overline{F} = 75$) with a few observational data intended to demonstrate an example of the agreement. The observational data are the Bonn model 1961 for $\overline{F} = 200$ (Martin et al. 1962) and the data derived by Jacchia and Slowey for March 1963 corresponding to $\overline{F} = 78$ and 04 hours local time from the 5 satellites Injun III, Explorer I, Explorer VIII, Vanguard II and Explorer IX. The maximum and minimum exospheric temperatures are stated on the right.
- Fig. 22: Monthly averages of the solar 10.7 cm flux in units of 10^{-22} W/m² c/s from the National Research Council, Ottawa, Canada for the years from 1947 through 1963. The open circles represent the yearly averages. The bars indicate the scatter of the daily values, represented by the maximum and minimum value during the months June and July of each year.



Fig



Fig



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Fig 7





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Fig 15










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Model 1

Properties of the Upper Atmosphere as Functions

of Height and Local Time for a Level of

Extreme Low Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 65 \times 10^{-22} \text{ W/m}^2$ c/s of the solar radiation at a wavelength of 10.7 cm.

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lel l	N (HE) /CH3	; ; ;	2.400E 07~~	1.605F 07	1.3996 37		1.1335 07	1-0316-17	9.337E 06	8.5845 06		7.3315 06	6.802E 36	6.325E U6	5.892E 06		5.134F UO	4.8336 06	4.496E U6	4.213E 36	3.7046.04	3.7495 46	2.888E U6	2.5568 36	2.2655 06	10136 24	1.786F 06	1.588E 06	1.413E J6	1.258E 06	1-171F JK	9.999E 35	8.924E 05	7.970E 05	7.124E U5	6.371E 05	5.732E US	5.136E 05	4.576E US	4.103E C5	3 4010 05	3.305F 05	2.969F JF	7.669E 35	
W	N(0) /CM3		3.9515 10	2.357E 10	1-524E 10	01 3766 I	7.7405 00	5-1785 09	3.7636 09	2.T68E 09		2.001E 09	I.163E 09	8.821E 38	6.725E U8	5 110C 00	3.9575 08	3.050E 08	2.358E 08	1.828E 08	1.105F 08	6-726F 07	4.120E 07	2.536E UT	1.568E 07	9.773E 06	6.J93E 06	3.812E 76	2.392E 36	1.506E 06	9.5385 05	6.020E 05	3.823E 05	2.434E 05	1.554E U5	9.949E 04	6.386E 04	4.110E U4	2.651E 34	1.715E 04	1-1125 04	7.230E 33	4.711E 03	3.0786 03	
	N(02) /CH3	2 1 2 0 2 1 0	2.453E 10	9.868E 09	4.471E 09	2,177F 09	1.1125 09	5.874E 08	3.1835 08	1.760E 08	0 0000 01	5.6336 07	3.245E 07	1.887E 07	1.107E 07	6.536F 16	3.834E 06	2.32GE 06	1.393E 06	8.40CE 05	3.388E 05	1.150E 35	4.327E 04	1.644E 04	6.297E 03	2.4516 03	9.536E 32	3.735E 02	1.472E 02	10 JCL8.C	2.327E 01	9.333E 00	3.764E 00	1.526E JU	10-3*77.0	2.551E-01	1.051E-01	4.354E-J2	L-8136-02	(•285E-J3	3.1906-03	I.348E-D3	5.726E-04	2.4446-74	
	N(N2) /CM3		1.468E 11	6.514E 13	3.224E 10	1.7356 10	9.420E 09	5.366E 09	3.128E 39	I.857E 09	00 3011-1	6.820E 08	4.201E 08	2.611E 08	1.634E 08	1.023E 08	6.521E 07	4.151E U7	Z.654E U7	1. 103E JI	7.087E 26	2.982E U6	1.267E U6	5.427E 05	2.342E J5	1.025E 05	4.483E 34	1.972E 34	8.127E]]	50 170× C	1.736E 03	7.798E 32	3.321E U2	7.2825 11		3-335E 51	1.534E J1	7.091E 30	0, 7767 JU	I+DDE UU	7.190E-JI	3.382E-01	1.598E-01	7.582E-22	
705 ⁰ K	MEAN MGL HT	10-14	26.30	25.60	24.87	24.13	23.38	22.64	21.91	21.21	20-56	19.95	19.39	18.88	18.43	18.03	17.67	17.35	10.11	70.01	16.38	15.93	15.59	15.16	14-67	13.98	13.23	12.35	05.11	00.00	9.22	8•19		5.78	,	5.24	N8 • •	4•50 202 4	1 - V - V	55.	3•91	3.79	3.70	3.62	7 1 2
T (4) =	SCALE HT KM	211	14.4	16.8	18.8	20.6	22.2	23.7	25.2	7007	28-1	29.5	30.8	1.26	r• cc	34.4	35.4		20.02	5	39.5	40.9	42.3	6.54 5.1	1.64	48.4	51.5	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	67.4		75.8	85.9 7	110.4	123.9	- 	137.4	150.2	177.4	181-6		189.6	196.6	272.7	2.08.3	• • • •
1024 ⁰ K	PRESSURE DYNE/CM2	2.722E-02	1.2586-02	6.634E-03	J.184E-03	2.276E-03	1.4256-03	9.2195-04	6.128E-04	*• T 10E-04	2.895E-04	2.047E-04	1.469E-04	1.0048-04		5.8586-05	4.3985-05	3.328E-05 2 5366-06	1.944F=05		1.161E-05	7.059E-06	4.367E-06	C+1404/+70	1.1315-00	1.16JE-96	7.7646-07	3 7876-07	2.7646-07		2.089E-07	1.3106-07	1.0806-07	9.104E-08		7.811E-08	5.9805-00	5.306E-08	4.740E-08	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.256E-08	3.837E-08	3.472E-08	J.100E-08	
T(14) =	DENS I TY GM/CM3	2.490E-11	9.2596-12	4.205E-12	21-3761 • 7	1.188E-12	6.913E-13	4.191E-13	2.62/E-13		1.1206-13	7.573E-14	3•221E-14	2.6096-14		1.885E-14	1.378E-14	1.0195-14 7.6016-15	5.7195-15		3.3056-15	1.9536-15	1.1735-15 7 1675-15	4 - 2385 - 14	07.007444	2.779E-16	1.1205 1/	7-3466-17	4-866E-17		3.291E-17	1-622F-17	1-188E-17	8.9785-18		0.98/E-16 5.503E-16	4.589E-18	3.8466-18	3.281E-18		2.838E-18	2.482E-18	2.19 E+18 1 0245-10		
4	TEMP K	355	(E.)	4 G Q	070	555	5 83	666	010	740	639	648	000 777	699) 7	674	678	585	687		692	649	140			202	207	203	104		704	104	704	704	206	202	705	705	7.05		705	202	202	- F	
HOUR=	AL T Kh	123	130			160	0/1.	1 80	2001)) 	210	220		250	r 1	260	012	290	30.0		320		380	400	2	420		480	503		520	562	580	600	4 3 0	040	660	680	101	-	720	041			

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WICH Divence Mix and the second of the seco	6 TEMP	T(14) = DENSITY	1024 ^o k Pressinge	T (4) =	705 ⁰ K	•			Kodel 1	
2.1378-10 1.2722-00 1.2722-00 1.2726-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00 1.2226-00		GH/CH3	DYNE/CM2	HT KH	MEAN MOL WT	N(N2) /CM3	N(02) /CH3	N(0) /CH3	N(HE) /CH3	N(A) /CH3
1.107F17 2.737E 0.1107E 1.107E 1.107E <th></th> <th>2.1356-12 2.1356-12 2.1356-12</th> <th>2.722E-02 1.252E-02 6.545E-03</th> <th>11.2</th> <th>27.01 26.30 25.58</th> <th>4.000E 11 1.478E 11 6.520E 10</th> <th>7.500E 10 2.467E 10 9.857E 09</th> <th>7.606 10 3.984E 10 2.374F 10</th> <th>2.400E 07 1.917E 07</th> <th>4-500E 09</th>		2.1356-12 2.1356-12 2.1356-12	2.722E-02 1.252E-02 6.545E-03	11.2	27.01 26.30 25.58	4.000E 11 1.478E 11 6.520E 10	7.500E 10 2.467E 10 9.857E 09	7.606 10 3.984E 10 2.374F 10	2.400E 07 1.917E 07	4-500E 09
6.0701E-13 5.002E 7.003E 1.071E 07 1.022E 07 1.122E 07 1.123E 07 1.133E 07 0 1.134E 00 1.132E 00		1-1676-12		6 + 0 9 - 1 1 - 1	24•84	3-1955 10	4.4146 09	1.527E 10	1.407E 07	J. 440E 08 1.440E 08
4.057:13 3.737 3.7545 3.7106 03 1.1226 03 1.1226 03 1.1226 03 1.1226 04 1.1226 05 1.1326 05 1.1326 05 1.1326 05 1.1326 05 1.1326 05 1.1306 05 1.1006 1.1306		6.731E-13	z.212E-03 1.379E-03	20•3 22•0	24.09 24.09	1-671E 10	. 2.123E 09	1.028E 10	1.2495 07	5 84.75 AT
(10)KE-11 5.037E-04 27.3 21.05 5.037E-04 2.5.33 21.05 5.037E-04 2.5.33 21.05 5.539E-05 5.539E-05 <td></td> <td>4.053E-13</td> <td>8.903E-04</td> <td>23.7</td> <td>22.58</td> <td>7.154E 09</td> <td>1.072E 09</td> <td>7.140E 09</td> <td>1.122E 07</td> <td>2.527E 07</td>		4.053E-13	8.903E-04	23.7	22.58	7.154E 09	1.072E 09	7.140E 09	1.122E 07	2.527E 07
1.0000000 1.7716 00 1.7716 00 1.200000 5.300000 5.300000 1.0000001 1.000000 1.000000 1.000000 1.000000 0.210000 0.210000 0.210000 1.0000001 1.000000 1.000000 1.000000 1.000000 0.210000 0.210000 0.210000 1.0000001 1.000000 1.000000 1.000000 0.2100000 0.2100000		2.530E-13	5.9256-04	25.3	21-85	2.9916 09	3.026F 08	5.071E 09	1.017E 07	1.138E 07
1.0076-16 20.51 1.0076 07 1.9726 07 1.2726 0 1.2526 0 1.2526 0 1.2526 0 1.2726 0 1.2526 0 1.2726 0 1.2526			50-3750*F	27-0	21.26	1.771E 09	1-669E 08	2.687E 09	9.212E 06 8.501F 06	5.300E 06
3.3787-10 3.008 1.7286 0.72876 0.17286 0.11266		1.076E-13	2.818E-04	28.5	20.51	1 0445 20				
3:594E-14 1.4/46E-04 31.4 19.45 7.031E 0 4.724E 0 4.754E		7.287E-14	Z-002E-04	0.05	19-91	4.517F 08	9.380E 07	1.993E 09	7.828E 06	1.243E 06
7:5:4:E.1 1:035E-14 1:035E-14 1:005E 0:105E 0:105E 0:1252E 0:1272E 0:1272E <td></td> <td>3.5695-14</td> <td>1.4466-04</td> <td>31.4</td> <td>19.36</td> <td>4.031E 08</td> <td>10 3405°C</td> <td>L.492E 39</td> <td>7.234E 06</td> <td>6.210E 05</td>		3.5695-14	1.4466-04	31.4	19.36	4.031E 08	10 3405°C	L.492E 39	7.234E 06	6.210E 05
1.9446-14 5.937-05 55.3 11.9046 0.5522 00 5.9052 00 4.451E 0 1.9362-14 3.4537-05 55.4 17.37 4.1026 07 5.3376 05 5.0018 05 5.4512		2.541E-14	7.8558-05	32.8	18-37	2.5205 08	1.3106 07	B.567E 08	6.706E 06	3.153E 05
1.346-14 5.373 10.01 0.446-0 07 5.0116 08 5.0146 04 5.418 0 4.4425 0 4.4455 0					17.04	1.950E 08	1.076E 07	6.552E 08	5.8058 06	A.455E US
1:05000 3:054 17.03 6.4666 07 3:0510 05 4.4710 05 4.4710 05 4.4710 05 4.4710 05 3.4400 05 4.4710 05 3.4400 05 4.4710 05 3.4400 05 4.4710 05 3.4400 05 4.4410 4.4410 4.4410 4.44		.1.846E-14	5.887E-05	35.3	18.03	1.0105 08	A.477F 04			
7.566E-15 2.007E-05 38.3 11.7.0 4.102E 07 2.307E 05 3.07E 06 1.205E 07 2.505E 05 3.609E 03 3.508E 01 1.019E 03 1.019E 01 1.019E 03 1.019E <th03< th=""> 1.019E 03</th03<>		1.010E-14	5.453E-05 3.396E-05	36.4	17.68	6.466E 07	3.861E 06	3.890F 08	5.413E 06	4.451E 04
3.746E-15 2.015E-05 39.2 16.41 7.478E 05 2.334E 08 4.167E 05 3.479E 05 3.475E 05 1.123E 05 3.475E 05 3.475E 05 3.547E 05 1.105E 05 1.10		7.5886-15	2.607E-05		12-11	4.162E 07	2.337E 06	3.016E 08	4.740E US	2.304E 04 1.765E 04
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4:0000-10 4.7.1 14.78 6.2556 05 1.9496 04 2.7066 07 2.8646 06 1.0036 07 1.0037 1.0037 1.00		1.235E-15 7.6585-15	4.747E-06	43.8	15.65	1.416E 06	1.403E U5 4.941E 06	6.942E 07	3.254E 06	3.356E 02
3.061E-16 $1.311E-06$ $2.782E$ 05 $7.703E$ 03 $1.703E$ 07 $2.281E$ 06 $1.019E$ 01 $1.276E-16$ $0.801E-07$ 52.3 $1.255E$ 05 $1.256E$ 03 $1.017E$ 06 $1.019E$ 01 $1.276E-16$ $0.8012E-07$ 52.3 $1.255E$ 05 $1.256E$ 03 $1.017E$ 06 $1.017E$ $5.411E-17$ $4.359E-07$ 5.13 12.65 $2.565E$ 05 $1.256E$ 06 $1.476E$ 06 $5.411E-17$ $5.3182E-07$ 5.13 12.65 $2.565E$ 05 $1.256E$ 06 $1.476E$ 06 $5.431E-17$ $5.1387E-07$ $5.131E$ 06 $1.278E$ 06 $1.478E$ 06 $1.487E$ $5.66E-17$ $1.8967E-07$ 9.70 $2.473E$ 03 $1.745E$ 06 $1.475E$ 06 $1.475E$ $1.8967E-17$ $1.8967E-07$ 9.70 $2.473E$ 03 $1.475E$ 06 $1.475E$ 06 $1.475E$ $1.8967E-17$ $1.8967E-07$ 9.70 $2.473E$ 03 $1.745E$ 06 $1.475E$ 06 $1.8967E-17$ $1.4967E-07$ 9.70 $2.473E$ 03 $1.475E$ 06 $1.495E$ 06 $1.8967E-17$ $1.4967E-07$ 9.70 $2.475E$ 06 $1.495E$ 06 $1.495E$ 06 $1.9967E-18$ $1.4967E-08$ $1.475E$ 06 $1.737E$ 05 $1.405E$ 06 $1.977E-18$ $5.$		4.806E-16	3.0306-06 1-9666-06	45°.3	15.24	6.253E 05	1.943E 04	2.706F 07	2.886E 06	1.035E U2
3.101E 05 1.31E-05 49.7 14.15 1.255E 05 1.175E 05 1.015E 07 1.015E 05 1.015E 07 1.015E 05 1.015E 05 1.255E 05 1.175E 05 1.175E 05 1.015E 07 1.015E 07 1.015E 07 1.015E 05				1.1	14./8	Z.782E 05	7.7036 03	1.7U3E 07	2.281E 06	3.2315 JI
1.278E-16 0.0001E-07 52.6 13.46 5.6535 04 1.2552 03 5.04335 05 1.0014 05 N(H) 5.631E-17 4.3595-07 61.1 11.74 1.1765 05 5.0595 02 4.3566 05 1.6216 05 /CM3 5.631E-17 3.1895-07 61.1 11.74 1.1765 05 1.0014 05 1.2946 06 7.8306 04 3.637E-17 3.1895-07 61.1 11.74 5.3076 01 1.17826 05 1.5946 06 7.6156 04 2.666E-17 1.8696-17 1.8695 07 8.4936 01 1.17826 05 1.5946 06 7.6156 04 2.666E-17 1.8695-07 84.2 8.403 3.4936 01 1.7735 05 1.00156 00 7.4076 05 7.4076 04 2.666E-17 1.8696-07 1074 6.17 1.1766 03 1.4566 04 7.4076 05 7.4076 04 2.6666-17 1.2946-07 1074 1.1706 02 2.5506 00 2.1656 04 7.2066 04 7.2066 04 1.0042E-17 1.02266-08 13.4561 00 1.1775 05 5.1076 00 2.7046 05 8.3446 05 6.6446 04 1.0042E-18 8.7266-08 1.276		3.06IE-16 1 0646-14	1.311E-06	49.7	14.15	1.253E 05	3-1016 03		•	
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5.631E-17 3.103E-07 61.1 11.776 04.176 0.0495 02 2.702E 0.447E 06 7.430E 04 7.430E 04 7.430E 04 7.430E 04 7.437E 06 7.451E 04 7.437E 06 7.447E 06 7.401E 04 7.201E 04 7.401E 04 7.401E 04 7.401E 04 7.401E 04 7.401E 04 <td< td=""><td></td><td>8.418F-17</td><td>6.1325-07 4.3505-07</td><td>56.3</td><td>12.65</td><td>2.5658 04</td><td>5.069E 02</td><td>0.843E 06</td><td>1.814E 06</td><td>N (H)</td></td<>		8.418F-17	6.1325-07 4.3505-07	56.3	12.65	2.5658 04	5.069E 02	0.843E 06	1.814E 06	N (H)
3.834E-17 2.405E-07 74.9 9.70 2.473E 03.163E 1.162E 06 1.294E 06 7.830E 06 2.666E-17 1.869E-07 9.40 2.473E 3.507E 11.145E 06 7.407E 04 1.898E-17 1.494E-07 95.1 7.73 5.330E 2.473E 03 1.456E 01 7.375E 06 7.407E 04 1.805E-17 1.206E-07 107.4 6.89 7.145E 03 1.456E 04 7.407E 04 1.042E-17 1.226E-07 107.4 6.897 2.530E 02 2.504E 05 7.206E 7.407E 04 1.047E-18 8.789E-08 1.34.2 5.530E 01 4.746E 5.100 2.651EE 04 7.407E 05 5.437E 05 5.437E 05 5.437E 04 5.437E 04 5.437E 04 5.437E 04 5.437E 04 5.437E 04 5.437E 04		5.631E-17	3.1896-07	67.2	11.74 10.74	1.170E 04	2.0695 02	2.782E 06	1.02UE U6 1.447E D6	
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1.098E-17 1.494F-07 95.1 1.4145 03 1.456E 01 7.407E 06 7.407E 04 1.0942E-17 1.2494E-07 95.1 7.73 5.330E 02 6.377E 00 4.764E 05 7.407E 04 1.0942E-17 1.2494E-07 195.1 7.73 5.330E 02 6.377E 00 4.764E 05 7.407E 04 1.0942E-17 1.2028E-07 120.6 6.17 1.170E 02 1.076E 00 4.764E 05 7.206E 7.407E 04 1.047E-18 8.789F-08 134.2 5.558 5.550E 00 3.086E 05 7.407E 04 7.206E 7.206E 7.407E 04 7.407E 04 7.206E 7.206E 7.206E 7.206E 7.206E 7.206E 7.407E 04 7.206E 04 7.407E 04 7.407E 05 7.206E 04 7.206E 04 7.206E 04 7.206E 04 7.206E 04 7.205E 04 7.205E 04 7.205E <td< td=""><td></td><td>3.8345-17 2.6665-17</td><td>2.405E-07</td><td>74.9</td><td>9.70</td><td>2.473E 03</td><td>3.507F 01</td><td>1 1250 01</td><td></td><td></td></td<>		3.8345-17 2.6665-17	2.405E-07	74.9	9.70	2.473E 03	3.507F 01	1 1250 01		
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6.337F-187.626fE-08134.25.5585.520E014.561E-011.305E056.727E056.644E045.197E-187.626fE-08140.14.731.245E011.944E-018.517E045.437E056.469E055.197E-185.936E-08171.665.102.615E011.944E-018.517E045.437E056.469E045.197E-185.936E-08171.664.445.994E003.582E-025.573E045.437E056.1395E043.655E-185.936E-08171.664.445.9949E003.582E-023.656E044.892E056.135E043.655E-185.302E-08181.94.211.2785E003.582E-022.454E044.405E055.976E043.154E-185.302E-08190.94.041.376E001.549E-022.457E044.405E055.673E042.149E-184.763E-08190.83.996.653E-012.946E-031.047E043.578E055.673E042.147E-183.894E-082.1753.401.250E-045.965E-043.969E055.528E042.147E-183.234E-032.177E-032.177E-032.177E-032.177E-032.513E-043.055E041.916.1-183.224E-032.177E-032.177E-032.177E-032.513E-043.055E045.528E04 <td></td> <td>9.0475-10</td> <td></td> <td></td> <td></td> <td>20 20114</td> <td>I-076E 00</td> <td>2-904E 05</td> <td>7.489E 05</td> <td>6.825E 04</td>		9.0475-10				20 20114	I-076E 00	2-904E 05	7.489E 05	6.825E 04
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123	355	2.490E-11	2.722E-92	11.2	27.01	4.030E 11	7.500E 10	7.600E 10	2.4336 37	4.500E 09
	474	9.331E-12	1.253E-02	14.2	26.33	1.480E 11	2.47UE 10	3.992E 10	1.920E 07	1.176E 09
150	525	2.1126-12	8.3325-U3 3.7085-03	10.6 18.8	24.85	6.498E 13 3.160F 10	9.820E 39 4.3585 39	2.3685 10	1.615E 07	3.832E U8 1 4245 04
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2002	695	L. 671E-13	4.517E-04	5.12 29.45	21.36	3.03/E 09 1.865E 09	3.1385 UB 1.7945 UB	3.582E J9 2.657E D9	8-956E 06 8-201E 36	5.660E 06
210	117	.1.131E-13	3.2486-04	31.3	20.76	1.164E J9	1.053E 08	Z.JU3E 09	7.556E 06	1.473E 06
077	251	(.8565-14 5.58)5-14	2.380E-04	33.1	20.21	7.4136 08	6.308E 07	1.530E 09	6.9995 06	7.828E 05
240	167	4 04)E-14	1.3396-04	0 • • • •		4.1945 UB	3.84/E 0/	1.182E 09	6.511E U6	4.2468 05
250	611	2.973E-14	1.0246-04	37.9	18.81	2.0816 08	L.491E 07	7.234E 08	5.690E -06	2.343E US
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290	811	9.8986-15	3.8176-05		0711	0.3035 JT	3.811F UG	3.0255 UB	4.132E 06	2.457E 04
300	817	7.7036-15	3.0345-05	44.1	17.24	2.9796 07	L.630E 06	2.336F 08	4-2-4F -00	1.430F 04 8.275F 02
	1									
320	825	4.765E-15	1.946E-05	46.0	16.30	1.419E J7	6.997E 05	1.522E 09	3.776E 06	2.923E 03
340 0 4 5	168	3.01/E-15	1.270E-05	47.7	16.42	6.851E J6	.3.050E 05	1.001E 08	3.391E U6	1.039E U3
				N • 6 5	10.03	3.344E U6	1.3456 05	6.634E UT	3.053E 06	3.745E 02
104	148	8.417E-16	3.8225-06	52.3	15.40	1.04/E UO 8.1725 D5	5.495E 04	4.423E 07	2.755E 06	1.367E U2
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420	844 946	5.637E-16	2.639E-06	54.3	14.98	4.094E 25	1.224E 34	1.9925 37	2.252E US	1111
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500	847	1.231E-16	6-813E-07	65.7	12.72	2.691E 04	1.180E U3 5.469E 32	6.1/35 06	1.574F 06	7.6345 34
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520	847	8.612E-17	5.0766-07	70 • 4	11.95	1.3795 04	2.548E 02	2.8676 06	1.385E 06	7.452E 04
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583	848	3.1696-17	2.3866-07	91.5	9*36	1.901E J3	2.6516 11	9.2455 35	07 3740-1 1.043F 36	
603	848	2.338E-17	1.938E-07	101.3	8.51	9.899E 32	1.2596 01	6.369E 05	9.50JE 05	6.779E 04
620	848	1.756E-17	1.607E-07	112.4	7.71	5.1756 32	6.001E 33	4.397E J5	8.659E JS	6.623E J4
643	849	1.3456-17	1.357E~37	124.7	6.93	2.716E 72	2.874E 00	3.0436 05	7.896E U5	6.472E 04
660	849	1.0506-17	1.165E-07	137.9	6.36	1.4316 02	1.382E 7G	2.110E 05	7.205E 05	6.325E 04
680	849	8.370E-18	1.015E-07	151.5	5.82	7.565E Jl	6.676E-31	1.466E 05	6.577E 05	6.182E 54
	849	6.806E-18	8.943E-08	165.2	5.37	4.015E JI	3.238E-01	1.021E 05	6.038E 05	6.044E 34
720	849	5.64.iE-18	7.961E-08	178.4	5.00	2.139E 01	1.5776-01	7.126E 34	5.491E 35	5.9095 34
044	849	4.756E-18	7.144E-08	C•161	4.70	1.143E 01	7.7145-02	4.984E 04	5.021E 05	5.778E 04
001	648	4.0/3E-16	6.454E-08	202.6	4.46	6.134E 00	3.788E-02	3.492E 04	4.593E J5	5.651E 34
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705 ⁰ K	MEAN MOL WT	27.01 26.32 25.67 25.04	24.42 23.82 23.82 23.22 22.64 22.07	21.53 21.00 20.50 20.03 19.59	19.18 18.80 18.45 18.13 17.64	17.33 16.90 16.53 16.19 15.87	15.52 15.16 14.77 14.31 13.78	13.17 12.48 11.73 10.92 10.98	9.24 8.43 7.67 6.38 6.38	5.85 5.85 5.05 5.05 5.05 5.05 5.05 5.05
T (4) =	SCALE HT KN	11.2 15.2 18.5 21.55	24.1 26.5 30.5 32.2	985 986 986 986 987 987 987 987 987 987 987 987 987 987	40 • 7 41 • 9 45 • 0 45 • 0 45 • 0	46.8 49.6 51.3 52.3	54.3 56.0 57.9 60.1 62.8	66.1 70.2 81.2 85.5	97.1 137.1 118.4 133.8 143.9	157.6 171.3 184.7 197.4 209.3
1024 ^o K	PRESSURE DYNE/CM2	2.722E+02 1.282E+02 7.667E-03 4.283E-03	2.7626-03 1.8616-03 1.2946-03 9.2256-04 6.7076-04	4.9566-04 3.7136-04 2.8156-04 2.1566-04 1.6676-04	1.2996-04 1.0196-04 8.0546-05 6.006+05 5.1126-05	3.3066-05 2.1736-05 1.4476-05 9.7456-06 6.6356-06	4.5786-06 3.1856-06 2.2416-06 1.5966-06 1.1526-06	8.447E-07 6.296E-07 4.779E-07 3.699E-07 2.921E-07	2.3546-07 1.9356-07 1.6236-07 1.6236-07 1.3796-07 1.3796-07	1.044E-07 9.244E-08 8.262E-38 7.441E-98 6.744E-08
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705 ⁰ K	MEAN Mol HT	27 . 31 26.32 25.66 25.02	24.37 23.73 23.10 22.47 21.86	21.27 20.70 20.17 19.67 19.21	18.78 18.40 18.05 17.73 17.44	16.95 16.53 16.16 15.81 15.45	15.00 14.53 13.97 13.31 12.54	11.69 10.76 9.80 8.86 7.97	7.16 6.45 5.85 4.96 4.96	4.64 4.64 9.03 9.03 9.03
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1024 ⁰ K	PRESSURE DVNE/CM2	2.722E=02 1.279E=02 7.011E=03 4.204E=03	2.671E-03 1.766E-03 1.203E-03 8.386E-04 5.957E-04	4.300E-04 3.147E-04 2.331E-04 1.745E-04 1.319E-04	1.0066-04 7.7266-05 5.9766-05 4.6516-05 3.2396-05	2.261E-05 1.428E-05 9.451E-05 5.939E-06 3.804E-06	2.6116-06 1.766E-06 1.214E-06 8.697E-07 6.073E-07	4.441E-07 3.330E-07 2.562E-07 2.622E-07 2.622E-07 1.636E-07	1,3546-07 1,1446-07 9,8226-08 8,5586-08 8,5586-08	6.714E-38 6.019E-08 5.437E-08 4.921E-08 4.478E-08
T(14) =	DENS I TY GM/CM3	2.493E-11 9.012E-12 4.134E-12 2.151E-12	1.236E-12 7.55⊖E-13 4.823E-13 3.184E-13 2.157E-13	1.493E-13 1.051E-13 7.521E-14 5.454E-14 4.004E-14	2.972E-14 2.228E-14 1.686E-14 1.286E-14 9.88JE-14	5.946E-15 3.655E-15 2.286E-15 1.452E-15 9.301E-16	6.333E-16 3.948E-16 2.607E-16 1.738E-16 1.179E-16	7.973E-17 5.533E-17 3.856E+17 2.753E-17 2.001E-17 2.001E-17	1.4876-17 1.1326-17 8.8236-18 8.8236-18 7.6376-18 7.6376-18	4.7816-18 4.0546-18 3.4906-18 3.0446-14 3.6446-14 2.6826-14
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τ(4) = 705 0,	SCALE HEAN HI KH MOL WI	11.2 27.01 15.0 26.32 17.9 25.65 20.3 24.98	22.3 24.31 24.0 23.64 25.6 22.97 27.1 22.33 28.4 21.65	29.8 21.03 31.0 20.44 32.2 19.89 33.4 19.37 34.5 18.90	35.6 18.48 36.6 18.10 37.5 17.75 38.4 17.45 39.2 17.17	40.7 16.69 42.1 16.29 43.4 15.91 44.8 15.53 46.3 15.12	48.4 14.57 50.8 13.98 53.9 13.27 57.8 12.44 62.9 11.50	69.4 10.50 77.4 9.47 87.0 8.47 98.3 7.55 110.8 6.73	124.1 6.04 137.7 5.48 151.0 5.03 163.4 4.67 174.7 4.40	184.7 4.18 193.6 4.01 201.3 3.08 208.1 3.75 214.2 3.69
τ(4) <u>=</u> 705 0 ₄	RE SCALE MEAN M2 HT KM MOL WT	72         11.2         27.01           72         15.0         26.32           73         17.9         25.65           73         20.3         24.98	24.01 24.00 23.64.01 23.64.01 23.64.01 23.65 22.97 24.21.22.30 24.21.65	04 29.8 21.03 04 31.0 20.44 04 32.2 19.89 04 33.4 19.37 04 34.5 18.90	05 35.6 18.48 05 36.6 18.10 05 37.5 17.75 05 38.4 17.45 05 39.2 17.17	15     40.7     16.69       15     42.1     16.29       16     43.4     15.91       16     44.8     15.53       16     46.3     15.12	06 48.4 14.57 06 50.8 13.98 07 53.9 13.27 17 57.8 12.44 17 62.9 11.50	7 69.4 10.50 77.4 9.47 77 87.0 8.47 7.98.3 7.55 110.8 6.73	IB         I24.1         6.04           IB         I37.7         5.48           IB         I37.7         5.48           IB         I51.0         5.03           IB         I51.0         5.03           IB         I63.4         4.67           IB         I74.7         4.40	8 184.7 4.18 8 193.6 4.01 8 201.3 3.08 8 201.1 3.73 8 214.2 3.69
m(4) = 705 0,	SURE SCALE MEAN /CM2 HT KM MOL WT	E-02 11.2 27.01 E-02 15.0 26.32 E-03 17.9 25.65 E-03 20.3 24.98	E-03         22.3         24.31           E-03         24.0         23.64           E-03         25.6         22.97           E-04         27.1         22.30           E-04         28.4         21.65	E-04 29.8 21.03 E-04 31.0 20.44 E-04 32.2 19.89 E-04 33.4 19.37 E-04 34.5 18.90	E-05 35.6 18.48 E-05 35.6 18.10 E-05 37.5 17.75 E-05 38.4 17.45 E-05 39.2 17.17	E-05 40.7 16.69 E-05 42.1 16.29 E-06 43.4 15.91 E-06 44.8 15.53 E-06 46.3 15.12	E-06 48.4 14.57 E-06 50.8 13.98 E-07 53.9 13.27 E-07 57.8 12.44 E-07 62.9 11.50	E-07 69.4 10.50 E-07 77.4 9.47 E-07 87.0 8.47 E-07 98.3 7.55 E-07 110.8 6.73	E-08 124.1 6.04 E-08 137.7 5.48 E-08 151.0 5.03 E-08 163.4 4.67 E-08 174.7 4.40	E-08 184.7 4.18 2-08 193.6 4.01 E-08 201.3 3.88 E-08 208.1 3.78 E-08 214.2 3.69
⁰ K	RESSURE SCALE MEAN YNE/CM2 HT KM MOL WT	722E-02 11.2 27.01 275E-02 15.0 26.32 931E-03 17.9 25.65 103E-03 20.3 24.98	565E-03 22.3 24.31 566E-03 24.0 23.64 114E-03 25.6 22.97 520E-04 27.1 22.30 315E-04 28.4 21.65	770E-04 29.8 21.03 713E-04 31.0 20.44 978E-04 32.2 19.89 458E-04 33.4 19.37 087E-04 34.5 18.90	L69E-05 35.6 18.48 192E-05 36.6 18.10 727E-05 37.5 17.75 532E-05 38.4 17.45 38.6E-05 39.2 17.17	701E-05 40.7 16.69 749E-05 42.1 16.29 570E-06 43.4 15.91 173E-06 44.8 15.53 889E-06 46.3 15.12	771E-06 48.4 14.57 183E-06 50.8 13.98 069E-07 53.9 13.27 366E-07 57.8 12.44 044E-07 62.9 11.50	886E-07     69.4     10.50       772E-07     77.4     9.47       80E-07     87.0     8.47       34E-07     98.3     7.55       84E-07     110.8     6.73	B2E-08     124.1     6.04       168E-08     137.7     5.48       159E-08     151.0     5.03       68E-08     151.0     5.03       168E-08     163.4     4.67       36E-08     174.7     4.40	222E-08 184.7 4.18 98E-08 193.6 4.01 46E-08 201.3 3.08 51E-08 208.1 3.75 03E-08 214.2 3.69
)24 ⁰ K	PRESSURE SCALE HEAN DYNE/CM2 HI KM MOL WI	2.722E-02 11.2 27.01 1.275E-02 15.0 26.32 6.931E-03 17.9 25.65 4.103E-03 20.3 24.98	2.565E-03 22.3 24.31 1.666E-03 24.0 23.64 1.114E-03 25.6 22.97 7.622E-04 27.1 22.33 5.315E-04 28.4 21.65	3.770E-04 29.8 21.03 2.713E-04 31.0 20.44 1.978E-04 32.2 19.89 1.458E-04 33.4 19.37 1.087E-04 34.5 18.90	8.169E-05 35.6 18.48 6.192E-05 36.6 18.10 4.727E-05 37.5 17.75 3.632E-05 38.4 17.45 2.806E-05 39.2 17.17	1.701E-05 40.7 16.69 1.049E-05 42.1 16.29 6.570E-06 43.4 15.91 4.173E-06 44.8 15.53 2.689E-06 46.3 15.12	1.771E-06 48.4 14.57 1.183E-06 50.8 13.98 8.069E-07 53.9 13.27 5.636E-07 57.8 12.44 4.044E-07 62.9 11.50	2.9986E-07 69.4 10.50 2.272E-07 77.4 9.47 1.780E-07 87.0 8.47 1.434E-07 98.3 7.55 1.184E-07 110.8 6.73	9.982E-08 124.1 6.04 8.568E-08 137.7 5.48 7.459E-08 151.0 5.03 6.568E-08 151.0 5.03 5.638E-08 163.4 4.67 5.836E-08 174.7 4.40	5.222E-08 184.7 4.18 4.698E-08 193.6 4.01 4.246E-08 201.3 3.08 3.851E-08 208.1 3.73 3.503E-08 214.2 3.69
1024 ⁰ K	PRESSURE SCALE MEAN DYNE/CM2 HI KM MOL WI	2.722E-02 11.2 27.01 1.275E-02 15.0 26.32 6.931E-03 17.9 25.65 4.103E-03 20.3 24.98	2.565E-03 22.3 24.31 1.666E-03 24.0 23.64 1.114E-03 25.6 22.97 7.623E-04 27.1 22.33 5.315E-04 28.4 21.65	3.770E-04 29.8 21.03 2.713E-04 31.0 20.44 1.978E-04 32.2 19.89 1.458E-04 33.4 19.37 1.087E-04 34.5 18.90	8.169E-05 35.6 18.48 6.192E-05 36.6 18.10 4.727E-05 37.5 17.75 3.632E-05 38.4 17.45 2.806E-05 39.2 17.17	1.701E-05 40.7 16.69 1.049E-05 42.1 16.29 6.570E-06 43.4 15.91 4.173E-06 44.8 15.53 2.689E-06 46.3 15.12	1.771E-06 48.4 14.57 1.183E-06 50.8 13.98 8.069E-07 53.9 13.27 5.636E-07 57.8 12.44 4.044E-07 62.9 11.50	2.986E-07 69.4 10.50 2.272E-07 77.4 9.47 1.780E-07 87.0 8.47 1.434E-07 98.3 7.55 1.184E-07 110.8 6.73	9.982E-08 124.1 6.04 8.568E-08 137.7 5.48 7.459E-08 151.0 5.03 6.568E-08 163.4 4.67 5.836E-08 174.7 4.40	5.222E-08 184.7 4.18 4.698E-08 193.6 4.01 4.246E-08 201.3 3.88 3.851E-08 201.3 3.88 3.503E-08 214.2 3.69
0 = 1024 ⁰ K	TY PRESSURE SCALE HEAN 13 DYNE/CH2 HT KH MOL WT	11         2.722E-02         11.2         27.01           12         1.275E-02         15.0         26.32           12         6.931E-03         17.9         25.65           12         4.103E-03         20.3         24.98	12 2.565E-03 22.3 24.31 13 1.666E-03 24.0 23.64 13 1.114E-03 25.6 22.97 13 7.623E-04 27.1 22.33 13 5.315E-04 28.4 21.65	13 3.770E-04 29.8 21.03 14 2.713E-04 31.0 20.44 14 1.978E-04 32.2 19.89 14 1.458E-04 33.4 19.37 14 1.087E-04 34.5 18.90	14       8.169E-05       35.6       18.48         14       6.192E-05       36.6       18.10         14       4.727E-05       37.5       17.75         14       3.632E-05       38.4       17.45         15       2.806E-05       39.2       17.17	15       1.701E-05       40.7       16.69         15       1.0449E-05       42.1       16.29         15       6.570E-06       43.4       15.91         15       4.173E-06       44.8       15.53         16       2.689E-06       46.3       15.12	16         1.771E-06         48.4         14.57           16         1.183E-06         50.8         13.98           16         8.069E-07         53.9         13.27           16         8.069E-07         53.9         13.27           16         5.636E-07         57.8         12.44           17         4.044E-07         62.9         11.50	17     2.986E-07     69.4     10.50       17     2.272E-07     77.4     9.47       17     1.780E-07     87.0     8.47       17     1.434E-07     98.3     7.55       17     1.184E-07     110.8     6.73	18     9.982E-08     124.1     6.04       18     8.568E-08     137.7     5.48       18     7.459E-08     151.0     5.03       18     6.568E-08     151.0     5.03       18     6.568E-08     163.4     4.67       18     5.836E-08     174.7     4.40	18       5.222E-08       184.7       4.18         18       4.698E-08       193.6       4.01         18       4.246E-08       201.3       3.08         18       3.851E-08       201.3       3.75         18       3.503E-08       214.2       3.69
14) = 1024 ^O K ~ ~ (4) = 705 ^O *	NSITY PRESSURE SCALE MEAN /CM3 DYNE/CM2 HT KM MOL WT	3E-11         2.722E-02         11.2         27.01           2E-12         1.275E-02         15.0         26.32           7E-12         6.931E-03         17.9         25.65           4E-12         4.103E-03         20.3         24.98	4E-12       2.565E-03       22.3       24.31         3E-13       1.666E-03       24.0       23.64         1E-13       1.114E-03       25.6       22.97         6E-13       7.623E-04       27.1       22.33         6E-13       5.315E-04       28.4       21.65	9E-13 3.770E-04 29.8 21.03 8E-14 2.713E-04 31.0 20.44 8E-14 1.978E-04 32.2 19.89 6E-14 1.458E-04 33.4 19.37 6E-14 1.087E-04 33.4 19.37	BE-14 8.169E-05 35.6 18.48 7E-14 6.192E-05 36.6 18.10 2E-14 4.727E-05 37.5 17.75 6E-14 3.632E-05 38.4 17.45 1E-15 2.806E-05 39.2 17.17	6E-15 1.701E-05 40.7 16.69 5E-15 1.049E-05 42.1 16.29 5E-15 6.570E-06 43.4 15.91 8E-15 4.173E-06 44.8 15.53 3E-16 2.689E-06 46.3 15.12	3E-16 1.771E-06 48.4 14.57 5E-16 1.103E-06 50.8 13.98 7E-16 8.069E-07 53.9 13.27 0E-16 5.636E-07 57.8 12.44 0E-17 4.044E-07 62.9 11.50	DE-17     2.9986E-07     69.4     10.50       5E-17     2.272E-07     77.4     9.47       1E-17     1.780E-07     87.0     8.47       1E-17     1.784E-07     98.3     7.55       3E-17     1.184E-07     110.8     6.73	IE-18       9.982E-08       124.1       6.04         3E-18       8.568E-08       137.7       5.48         1E-18       7.459E-08       151.0       5.03         5E-18       5.568E-08       151.0       5.03         5E-18       5.568E-08       151.0       5.03         5E-18       5.836E-08       174.7       4.67	JE-18     5.222E-08     184.7     4.18       6-18     4.698E-08     193.6     4.01       56-18     4.246E-08     201.3     3.08       56-18     3.246E-08     201.3     3.08       56-18     3.561E-08     201.3     3.75       56-18     3.503E-08     214.2     3.69
$T(14) = 1024 ^{O}K$ $\pi(4) = 705 ^{O}K$	DENSITY PRESSURE SCALE MEAN GM/CM3 DYNE/CM2 HT KM MOL WT	-493E-11 2.722E-02 11.2 27.01 062E-12 1.275E-02 15.0 26.32 .137E-12 6.931E-03 17.9 25.65 164E-12 4.103E-03 20.3 24.98	234E-12       2.565E-03       22.3       24.31         453E-13       1.6666E-03       24.0       23.64         691E-13       1.114E-03       25.6       22.33         046E-13       7.620E-04       27.1       22.33         028E-13       5.315E-04       28.4       21.65	379E-13 3.770E-04 29.8 21.03 548E-14 2.713E-04 31.0 20.44 718E-14 1.978E-04 32.2 19.89 796E-14 1.458E-04 33.4 19.37 468E-14 1.087E-04 34.5 18.90	538E-14       8.169E-05       35.6       18.48         877E-14       6.192E-05       36.6       18.10         402E-14       4.727E-05       37.5       17.75         056E-14       3.632E-05       38.4       17.45         011E-15       2.806E-05       39.2       17.17	706E-15       1.701E-05       40.7       16.69         825E-15       1.049E-05       42.1       16.29         725E-15       6.570E-06       43.4       15.91         068E-15       4.173E-06       44.8       15.53         633E-16       2.689E-06       46.3       15.12	243E-16       1.771E-06       48.4       14.57         716E-16       1.183E-06       50.8       13.98         757E-16       8.069E-07       53.9       13.27         150E-16       5.636E-07       57.8       12.44         630E-17       4.044E-07       62.9       11.50	140E-17       2.986E-07       69.4       10.50         526E-17       2.272E-07       77.4       9.47         471E-17       1.7806E-07       87.0       8.47         773E-17       1.434E-07       98.3       7.55         305E-17       1.184E-07       110.8       6.73	BBIE-18     9.982E-08     124.1     6.04       686E-18     8.568E-08     137.7     5.48       141E-18     7.459E-08     151.0     5.03       025E-18     6.568E-08     163.4     4.67       2005-18     5.836E-08     174.7     4.40	573E-18       5.222E-08       184.7       4.18         086E-18       4.698E+08       193.6       4.01         696E-18       4.246E-08       201.3       3.88         379E-18       3.651E-08       208.1       3.78         114E-18       3.503E-08       214.2       3.69
$T(14) = 1024^{\circ} K$ $\pi(4) = 705^{\circ}$	DENSITY PRESSURE SCALE MEAN GM/CM3 DYNE/CM2 HT KM MOL WT	2.493E-11 2.722E-02 11.2 27.01 9.062E-12 1.275E-02 15.0 26.32 4.137E-12 6.931E-03 17.9 25.65 2.164E-12 4.103E-03 20.3 24.98	1.234E-12       2.565E-03       22.3       24.31         7.453E-13       1.666E-03       24.0       23.64         4.691E-13       1.114E-03       25.6       22.37         3.046E-13       7.623E-04       27.1       22.30         2.028E-13       5.315E-04       28.4       21.65	1.379E-13 3.770E-04 29.8 21.03 9.548E-14 2.713E-04 31.0 20.44 6.718E-14 1.978E-04 32.2 19.89 4.796E-14 1.458E-04 33.4 19.37 3.468E-14 1.087E-04 34.5 18.90	2.538E-14 8.169E-05 35.6 18.48 1.877E-14 6.192E-05 35.6 18.10 1.402E-14 4.727E-05 37.5 17.75 1.056E-14 3.632E-05 38.4 17.45 8.011E-15 2.806E-05 39.2 17.17	4.706E-15       1.701E-05       40.7       16.69         2.825E-15       1.049E-05       42.1       16.29         1.725E-15       6.570E-05       43.4       15.91         1.068E-15       4.173E-06       44.8       15.53         6.693E-16       2.689E-06       46.3       15.12	4.243E-16       1.771E-06       48.4       14.57         2.716E-16       1.183E-06       50.8       13.98         1.757E-16       8.069E-07       53.9       13.27         1.152E-16       5.636E-07       57.8       12.44         7.633E-17       4.044E-07       62.9       11.50	5.140E-17       2.986E-07       69.4       10.50         3.526E-17       2.272E-07       77.4       9.47         2.471E-17       1.780E-07       87.0       8.47         1.773E-17       1.434E-07       98.3       7.55         1.305E-17       1.184E-07       110.8       6.73	9.881E-18     9.982E-08     124.1     6.04       7.688E-18     8.568E-08     137.7     5.48       6.141E-18     7.459E-08     151.0     5.03       5.125E-18     6.568E-08     163.4     4.67       4.205E-18     5.836E-08     174.7     4.40	<b>3.573E-18 5.222E-08 184.7 4.18</b> <b>3.086E-18 4.698E-08 193.6 4.01</b> <b>2.696E-18 4.246E-08 201.3 3.88</b> <b>2.379E-18 3.851E-08 201.1 3.78</b> <b>2.379E-18 3.507E-08 214.2 3.69</b>
$T(14) = 1024 ^{O}K$ $\pi(4) = 705 ^{O}K$	P DENSITY PRESSURE SCALE HEAN GM/CM3 DYNE/CM2 HT KM MOL WT	5       2.493E-11       2.722E-02       11.2       27.01         5       9.062E-12       1.275E-02       15.0       26.32         7       4.137E-12       6.931E-03       17.9       25.65         7       2.164E-12       4.103E-03       20.3       24.98	3       1.234E-12       2.565E-03       22.3       24.31         5       7.453E-13       1.6666E-03       24.0       23.64         6       4.691E-13       1.114E-03       25.6       22.97         1       3.046E-13       7.623E-04       27.1       22.33         1       2.028E-13       5.315E-04       28.4       21.65	1.379E-13       3.770E-04       29.8       21.03         9.548E-14       2.713E-04       31.0       20.44         6.718E-14       1.978E-04       32.2       19.89         4.7796E-14       1.978E-04       33.4       19.37         3.468E-14       1.087E-04       34.5       18.90	1       2.538E-14'       8.169E-05       35.6       18.48         1       1.877E-14       6.192E-05       36.6       18.10         1       402E-14       4.727E-05       37.5       17.75         1       402E-14       3.632E-05       38.4       17.45         1       056E-14       3.632E-05       38.4       17.45         1       0.011E-15       2.806E-05       39.2       17.15	4.706E-15       1.701E-05       40.7       16.69         2.825E-15       1.0449E-05       42.1       16.29         1.725E-15       6.570E-06       43.4       15.91         1.068E-15       4.173E-06       44.8       15.53         6.693E-16       2.689E-06       46.3       15.12	4.243E-16       1.771E-06       48.4       14.57         2.7716E-16       1.183E-06       50.8       13.98         1.757E-16       8.069E-07       53.9       13.27         1.150E-16       5.636E-07       57.8       12.44         7.633E-17       4.044E-07       62.9       11.50	5.140E-17       2.986E-07       69.4       10.50         3.526E-17       2.272E-07       77.4       9.47         2.471E-17       1.780E-07       87.0       8.47         1.773E-17       1.434E-07       98.3       7.55         1.305E-17       1.184E-07       110.8       6.73	9.881E-18       9.982E-08       124.1       6.04         7.688E-1a       8.568E-08       137.7       5.48         6.141E-18       7.459E-08       151.0       5.03         5.025E-18       6.568E-08       163.4       4.67         4.2005E-18       5.836E-08       174.7       4.40	<b>3.573E-18 5.222E-08 184.7 4.18</b> <b>3.086E-18 4.698E-08 193.6 4.01</b> <b>2.696E-18 4.246E-08 201.3 3.08</b> <b>2.379E-18 3.501E-08 201.3 3.08</b> <b>2.114E-18 3.503E-08 214.2 3.69</b>
2 T(14) = 1024 ^O K π(4) = 705 O ₂	TEMP DENSITY PRESSURE SCALE MEAN K GM/CH3 DYNE/CH2 HT KM MOL WT	355       2.490E-11       2.722E-02       11.2       27.01         445       9.062E-12       1.275E-02       15.0       26.32         517       4.137E-12       6.931E-03       17.9       25.65         570       2.164E-12       4.103E-03       27.93       24.98	608       1.234E-12       2.565E-03       22.3       24.31         636       7.453E-13       1.6666E-03       24.0       23.64         656       4.691E-13       1.114E-03       25.6       22.97         671       3.046E-13       7.620E-04       27.1       22.33         683       2.028E-13       5.315E-04       28.4       21.65	691       1.379E-13       3.770E-04       29.8       21.03         698       9.548E-14       2.713E-04       31.0       20.44         704       6.718E-14       1.978E-04       32.2       19.89         709       4.796E-14       1.458E-04       33.4       19.37         712       3.468E-14       1.087E-04       34.5       18.90	715       2.538E-14'       8.169E-05       35.6       18.48         718       1.877E-14       6.192E-05       36.6       18.10         720       1.402E-14       4.727E-05       37.5       17.75         722       1.056E-14       3.632E-05       38.4       17.45         723       8.011E-15       2.806E-05       39.2       17.45	726       4.706E-15       1.701E-05       40.7       16.69         728       2.825E-15       1.049E-05       42.1       16.29         729       1.725E-15       6.570E-06       43.4       15.91         730       1.068E-15       4.173E-06       44.8       15.53         731       6.693E-16       2.689E-06       46.3       15.12	732       4.243E-16       1.771E-06       48.4       14.57         732       2.716E-16       1.183E-06       50.8       13.98         733       1.757E-16       8.069E-07       53.9       13.27         733       1.155E-16       5.636E-07       57.8       12.44         733       1.155E-16       5.636E-07       57.8       12.44         733       7.633E-17       4.044E-07       62.9       11.50	734       5.140E-17       2.986E-07       69.4       10.50         734       3.526E-17       2.272E-07       77.4       9.47         734       2.471E-17       1.7806E-07       87.0       8.47         734       1.773E-17       1.434E-07       98.3       7.55         734       1.305E-17       1.184E-07       98.3       7.55	734       9.881E-18       9.982E-08       124.1       6.04         735       7.688E-18       8.568E-08       137.7       5.48         735       6.141E-18       7.459E-08       151.0       5.03         735       5.025E-18       6.568E-08       151.0       5.03         735       4.203E-18       5.836E-08       163.4       4.67	735       3.573E-18       5.222E-08       184.7       4.18         735       3.086E-18       4.698E-08       193.6       4.01         735       3.086E-18       4.546E-08       201.3       3.08         735       2.696E-18       4.246E-08       201.3       3.08         735       2.696E-18       4.246E-08       201.3       3.08         735       2.379E-18       3.651E-08       208.1       3.75         735       2.379E-18       3.503E-08       214.2       3.69
22 T(14) = 1024 ^O K ~ ~ (4) = 705 ^O	TEMP DENSITY PRESSURE SCALE MEAN K GM/CM3 DYNE/CM2 HT KM MOL WT	355       2.493E-11       2.722E-02       11.2       27.01         445       9.062E-12       1.275E-02       15.0       26.32         517       4.137E-12       6.931E-03       17.9       25.65         570       2.164E-12       4.103E-03       20.3       24.98	608 1.234E-12 2.565E-03 22.3 24.31 636 7.453E-13 1.6666E-03 24.0 23.64 656 4.691E-13 1.114E-03 25.6 22.97 671 3.046E-13 7.623E-04 27.1 22.33 683 2.028E-13 5.315E-04 28.4 21.65	691       1.379E-13       3.770E-04       29.8       21.03         698       9.548E-14       2.713E-04       31.0       20.44         704       6.718E-14       1.978E-04       32.2       19.89         709       4.796E-14       1.458E-04       33.4       19.37         712       3.468E-14       1.087E-04       34.5       18.90	715       2.538E-14'       8.169E-05       35.6       18.48         718       1.877E-14       6.192E-05       36.6       18.10         720       1.402E-14       4.727E-05       37.5       17.75         722       1.056E-14       3.632E-05       38.4       17.45         723       8.011E-15       2.8066E-05       39.2       17.45	726       4.706E-15       1.701E-05       40.7       16.69         728       2.8255-15       1.0496-05       42.1       16.29         729       1.725E-15       6.570E-06       43.4       15.91         730       1.0668E-15       4.173E-06       44.8       15.53         731       6.693E-16       2.689E-06       46.3       15.12	732       4243E-16       1771E-06       484       1457         732       2.716E-16       1.183E-06       508       1398         733       1757E-16       8069E-07       539       1327         733       1.155E-16       5636E-07       578       1244         733       1.155E-16       5636E-07       578       1244         733       7.633E-17       4044E-07       629       1150	734       5.140E-17       2.986E-07       69.4       10.50         734       3.526E-17       2.272E-07       77.4       9.47         734       2.471E-17       1.780E-07       87.0       8.47         734       1.773E-17       1.434E-07       98.3       7.55         734       1.305E-17       1.184E-07       98.3       7.55	734     9.881E-18     9.982E-08     124.1     6.04       735     7.688E-18     8.568E-08     137.7     5.48       735     6.141E-18     7.459E-08     151.0     5.03       735     5.025E-18     6.568E-08     151.0     5.03       735     5.025E-18     6.568E-08     163.4     4.67       735     4.2005E-18     5.836E-08     174.7     4.40	735       3.573E-18       5.222E-08       184.7       4.18         735       3.086E-18       4.698E-08       193.6       4.01         735       2.696E-18       4.246E-08       201.3       3.88         735       2.696E-18       4.246E-08       201.3       3.88         735       2.379E-18       3.851E-08       201.3       3.78         735       2.114E-18       3.503E-08       214.2       3.69
JR■ 22 T(14) = 1024 ^O K ~ ~(4) = 705 ^O 5	T TEMP DENSITY PRESSURE SCALE MEAN K GM/CM3 DYNE/CM2 HT KM MOL WT	355     2,493E-11     2,722E-02     11.2     27.01       445     9.062E-12     1.275E-02     15.0     26.32       517     4.137E-12     6.931E-03     17.9     25.65       573     2.164E-12     4.103E-03     20.3     24.98	608         1.234E-12         2.565E-03         22.3         24.31           636         7.453E-13         1.666E-03         24.0         23.64           656         4.691E-13         1.114E-03         25.6         22.37           671         3.046E-13         7.623E-04         27.1         22.33           671         3.046E-13         7.623E-04         27.1         22.33           683         2.028E-13         5.315E-04         28.4         21.65	691       1.379E-13       3.770E-04       29.8       21.03         698       9.548E-14       2.713E-04       31.0       20.44         704       6.718E-14       1.978E-04       32.2       19.89         709       4.7796E-14       1.458E-04       33.4       19.37         712       3.468E-14       1.087E-04       34.5       18.90	715         2.538E-14         8.169E-05         35.6         18.48           718         1.877E-14         6.192E-05         36.6         18.10           720         1.402E-14         4.727E-05         37.5         17.75           722         1.056E-14         3.632E-05         38.4         17.45           723         8.011E-15         2.806E-05         39.2         17.45	726 4.706E-15 1.701E-05 40.7 16.69 728 2.825E-15 1.049E-05 42.1 16.29 729 1.725E-15 6.570E-05 43.4 15.91 730 1.068E-15 4.173E-06 44.8 15.53 731 6.693E-16 2.689E-06 46.3 15.12	732       4.243E-16       1.771E-06       48.4       14.57         732       2.716E-16       1.183E-06       50.8       13.98         733       1.757E-16       8.069E-07       53.9       13.27         733       1.152E-16       5.636E-07       57.8       12.44         733       7.663E-17       4.044E-07       62.9       11.50	734       5.140E-17       2.986E-07       69.4       10.50         734       3.526E-17       2.272E-07       77.4       9.47         734       2.471E-17       1.780E-07       87.0       8.47         734       1.773E-17       1.496E-07       87.0       8.47         734       1.773E-17       1.434E-07       98.3       7.55         734       1.305E-17       1.184E-07       110.8       6.73	734     9.881E-18     9.982E-08     124.1     6.04       735     7.688E-1a     8.568E-08     137.7     5.48       735     6.141E-18     7.459E-08     151.0     5.03       735     5.025E-18     6.568E-08     151.0     5.03       735     5.025E-18     6.568E-08     163.4     4.67       735     4.2005E-18     5.836E-08     174.7     4.40	735       3.573E-18       5.222E-08       184.7       4.18         735       3.086E-18       4.698E-08       193.6       4.01         735       2.696E-18       4.246E-08       201.3       3.88         735       2.696E-18       4.246E-08       201.3       3.88         735       2.379E-18       3.851E-03       203.1       3.78         735       2.114E-18       3.503E-03       214.2       3.69
HOUR= 22 T(14) = 1024 ^O K m(4) <u>=</u> 705 O ₅	ALT TEMP DENSITY PRESSURE SCALE MEAN KM K GM/CM3 DYNE/CM2 HT KM MOL WT	120       355       2.493E-11       2.722E-02       11.2       27.01         130       445       9.062E-12       1.275E-02       15.0       26.32         140       517       4.137E-12       6.931E-03       17.9       25.65         150       573       2.164E-12       4.103E-03       20.3       24.98	160       608       1.234E-12       2.565E-03       22.3       24.31         170       636       7.453E-13       1.6666E-03       24.0       23.64         180       656       4.691E-13       1.114E-03       25.6       22.97         190       671       3.046E-13       7.623E-04       27.1       22.33         200       683       2.028E-13       5.315E-04       28.4       21.655	210       691       1.3796-13       3.770E-04       29.8       21.03         220       698       9.548E-14       2.713E-04       31.0       20.44         230       704       6.718E-14       1.978E-04       31.0       20.44         230       704       6.718E-14       1.978E-04       32.2       19.89         240       709       4.7796E-14       1.458E-04       33.4       19.37         250       712       3.468E-14       1.087E-04       34.5       18.90	260       715       2.538E-14'       8.169E-05       35.6       18.48         270       718       1.877E-14       6.192E-05       36.6       18.10         280       723       1.402E-14       4.727E-05       37.5       17.75         290       722       1.056E-14       3.632E-05       38.4       17.45         300       723       8.011E-15       2.806E-05       39.2       17.45	320       726       4.706E-15       1.701E-05       40.7       16.69         340       728       2.825E-15       1.049E-05       42.1       16.29         360       729       1.725E-15       6.570E-06       43.4       15.91         380       730       1.068E-15       4.173E-06       44.8       15.53         400       731       6.693E-16       2.689E-06       46.3       15.12	4.20       732       4.243E-16       1.771E-06       48.4       14.57         4.40       732       2.7716E-16       1.183E-06       59.8       13.98         4.60       733       1.757E-16       8.069E-07       53.9       13.27         4.60       733       1.757E-16       8.069E-07       53.9       13.27         4.60       733       1.150E-16       5.636E-07       57.8       12.44         500       733       7.6632E-17       4.044E-07       62.9       11.50	520     734     5.140E-17     2.986E-07     69.4     10.50       540     734     3.526E-17     2.272E-07     77.4     9.47       560     734     2.471E-17     1.780E-07     87.0     8.47       580     734     1.773E-17     1.434E-07     98.3     7.55       500     734     1.305E-17     1.434E-07     98.3     7.55	520     734     9.881E-18     9.982E-08     124.1     6.04       540     735     7.688E-18     8.568E-08     137.7     5.48       560     735     6.141E-18     7.459E-08     151.0     5.03       580     735     5.025E-18     6.568E-08     151.0     5.03       580     735     5.025E-18     6.568E-08     163.4     4.67       700     735     4.2005E-18     5.836E-08     174.7     4.40	735       3.573E-18       5.222E-08       184.7       4.18         740       735       3.086E-18       4.698E-08       193.6       4.01         760       735       3.086E-18       4.246E-08       201.3       3.88         760       735       2.696E-18       4.246E-08       201.3       3.88         780       735       2.696E-18       4.246E-08       201.3       3.88         780       735       2.379E-18       3.851E-08       203.1       3.78         780       735       2.114E-18       3.503E-03       214.2       3.69
HOUR= 22 T(14) = 1024 ^O K ~ r/4) = 7∩5 ^O 3	ALT TEMP DENSITY PRESSURE SCALE MEAN KM K GM/CM3 DYNE/CM2 HTKM MOL WT	120       355       2.490E-11       2.72E-02       11.2       27.01         130       445       9.062E-12       1.275E-02       15.0       26.32         140       517       4.137E-12       6.931E-03       17.9       25.65         150       573       2.164E-12       4.103E-03       27.93       24.98	160       608       1.2346-12       2.5656-03       22.3       24.31         170       636       7.4536-13       1.66666-03       24.0       23.64         180       656       4.6916-13       1.1146-03       25.6       22.97         190       671       3.0466-13       1.1146-03       25.6       22.33         200       683       2.0286-13       5.3156-04       28.4       21.65	210 <b>691 1.379E-13 3.770E-04 29.8 21.03</b> 220 <b>698 9.548E-14 2.713E-04 31.0 20.44</b> 230       704 <b>6.718E-14 2.713E-04 31.0 20.44</b> 230       704 <b>6.718E-14 1.978E-04 32.2 19.89</b> 240       709 <b>4.796E-14 1.458E-04 33.4 19.37</b> 250       712 <b>3.468E-14 1.087E-04 34.5 18.90</b>	260       715       2.538E-14'       8.169E-05       35.6       18.48         270       718       1.877E-14'       6.192E-05       36.6       18.10         280       720       1.402E-14'       6.192F-05       37.5       17.75         290       722       1.056E-14'       3.632E-05       38.4       17.45         300       723       8.011E-15       2.806E-05       39.2       17.45	320       726       4.706E-15       1.701E-05       40.7       16.69         340       728       2.825E-15       1.049E-05       42.1       16.29         360       729       1.725E-15       6.570E-06       43.4       15.91         380       730       1.0668E-15       4.173E-06       44.8       15.53         400       731       6.693E-16       2.6899E-06       46.3       15.12	420       732       4.243E-16       1.771E-06       48.4       14.57         440       732       2.716E-16       1.183E-06       50.8       13.98         460       733       1.757E-16       8.069E-07       53.9       13.27         480       733       1.150E-16       5.636E-07       57.8       12.44         480       733       1.150E-16       5.636E-07       57.8       12.44         500       733       7.630E-17       4.044E-07       62.9       11.50	520     734     5.140E-17     2.986E-07     69.4     10.50       540     734     3.526E-17     2.272E-07     77.4     9.47       560     734     2.471E-17     1.780E-07     87.0     8.47       580     734     1.773E-17     1.434E-07     98.3     7.55       600     734     1.305E-17     1.184E-07     10.8     6.73	620       734       9.680E-18       9.982E-08       124.1       6.04         640       735       7.680E-18       8.568E-08       137.7       5.48         640       735       6.141E-18       7.459E-08       151.0       5.48         680       735       6.141E-18       7.459E-08       151.0       5.03         680       735       5.725E-18       6.568E-08       163.4       4.67         700       735       5.725E-18       5.836E-08       174.7       4.40	720       735       3.573E-18       5.222E-08       184.7       4.18         740       735       3.086E-18       4.698E-08       193.6       4.01         760       735       3.086E-18       4.246E-08       201.3       3.08         760       735       2.696E-18       4.246E-08       201.3       3.08         780       735       2.6376E-18       3.546E-08       201.3       3.78         780       735       2.3776E-18       3.651E-08       208.1       3.78         780       735       2.3776E-18       3.503E-038       214.2       3.69

#### Model 2

### Properties of the Upper Atmosphere as Functions

# of Height and Local Time for a Level of

## Very Low Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [ $^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen⁻¹ (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux  $\overline{F} = 75 \times 10^{-22} \text{ W/m}^2$  c/s of the solar radiation at a wavelength of 10.7 cm.

M-2-1

2000 600 800 ້ອງຄຸດທູດ 4444 00000 3 44444 44444 4,8 4,4,4 4.500E 1.152E 3.908E 1.553E 6.783E 3.146E 1.519E 7.545E 3.829E 1.975E 1.032E 5.448E 2.903E 1.558E 8.417E 4.573E 2.497E 1.370E 7.542E 2.312E 7.175E 2.251E 7.134E 2.281E N(A) /CH3 6.002E 5.840E 5.682E 5.331E 5.334E 5.242E 5.134E 4.971E 4.842E 4.717E N (H) /CM3 5.170E 4.596E 4.479E 4.366E 4.256E 4.149E 2000 NN 890 000000 00000 00000 00000 00000 0 0 0 0 0 0 0 0 0 0 0 0 000005 00000 00000000 2 N(HE) /CM3 2.405E 1.867E 1.558E 1.356E 7.952E 7.408E 6.917E 6.469E 6.059E 1.213E 1.096E 1.063E 9.243E 8.558E 5.881E 5.332E 5.309E 4.709E 4.429E 3.9266 3.4866 3.1006 2.4616 2.4616 2.191E 1.956E 1.748E 1.564E 1.402E 1.254E 1.124E 1.008E 9.045E 8.124E 7.3J1E 6.565E 5.938E 5.319E 4.792E 4.32)E 3.897E 3.517E 3.176E 3.176E 2.877E Model . 2222 00000 60000 8000000 80000 **36** 36 36 25002 14000 2.312E 1.770E 1.363E 1.354E 8.186E 1.0316 7.3826 5.4126 4.0326 3.0406 7.600E 3.838E 2.2828E 1.491E 6.376E 4.980E 3.899E 3.760E 2.405E 1.494E 9.331E 5.857E 3.692E 2.336E 1.467E 9.341E 5.965E 3.821E 2.454E N(0) /CH3 1.541E 1.721E 6.613E 4.244E 2.796E 1.825E 1.194E 7.831E 5.149E 3.394E 2.243E 1.485E 9.86UE 6.561E 4.376E 0100 60000 000000 8.968E-Ul 3.84vE-Jl 1.652E-01 7.146E-J2 3.105E-J2 1.356E-U2 5.947E-U3 2.621E-D3 1.161E-D3 5.163E-D4 80000 20000 000000 11188 N(02) /CH3 7.500E 2.406E 9.829E 4.606E 2.343E 1.255E 6.959E 3.955E 3.955E 2.288E 1.342E 7.962E 4.765E 2.873E 1.743E 1.063E 6.514E 4.008E 2.476E 1.534E 5.944E 2.326E 9.187E 3.657E 1.466E 5.779E 2.344E 9.565E 3.926E 1.621E 6.726E 2.807E 1.178E 4.966E 2.105E 1123 22665 2.539E 00 (1.234E 0) 6.021E+01 2.951E+01 1.452E-01 80000 000000 000000 000000 37378 N(N2) /CH3 4.000E 1.436E 6.442E 3.279E 1.830E 1.037E 6.162E 3.746E 2.315E 1.449E 9.155E 5.833E 3.742E 2.414E 1.564E 1.018E 6.654E 4.362E 2.868E 1.249E 5.493E 2.434E 1.086E 4.879E 2.160E 9.798E 4.469E 2.649E 9.442E 4.372E 2.034E 9.506E 4.463E 2.155 9.972E 4.745E 2.267E 1.688E 5.245E .049E .442E ి MEAN Mol WT 27.01 26.32 25.65 24.98 24.31 23.63 22.95 22.28 21.62 21.03 20.43 19.85 19.34 19.34 8.45 8.07 7.73 7.42 7.15 16.68 16.27 15.90 15.52 15.11 14.56 13.97 13.26 2.44 10.52 9.50 8.51 7.60 6.79 6.11 5.55 4.75 4.75 4.26 4.10 3.97 3.79 731 Ħ 86.8 86.8 97.9 SCALE HT KH 11.2 15.5 17.8 20.2 22.1 23.8 25.4 25.4 28.3 29.5 34.5 34.5 35.6 36.6 38.5 39.3 40.04 40.04 40.04 40.04 40.04 51. Ú 54. Ú 58. Ú 63. Ú 48.6 181.6 190.0 197.3 203.7 209.3 **69.4** 123.1 136.3 149.2 161.2 172.0 £ 2.722E-02 1.277E-02 6.944E-03 4.103E-03 PRESSURE DYNE/CM2 2.557E-03 1.655E-03 1.102E-03 7.515E-04 5.228E-04 7.995E-05 6.062E-05 4.630E-05 3.560E-05 2.753E-05 2.753E-05 3.700E-04 2.659E-04 1.937E-04 1.427E-04 1.427E-04 1.672E-05 1.033E-05 6.484E-06 4.130E-06 2.648E-06 1.737E-06 1.162E-06 7.935E-07 5.549E-07 3.9\$4E-07 2.943E-07 2.242E-07 1.754E-07 1.412E-07 1.412E-07 9.809E-08 8.407E-08 7.368E-08 6.425E-08 5.698E-08 5.689E-08 4.575E-08 4.122E-08 3.731E-08 3.386E-08 ۰× 1064 Ħ 2.4926-11 9.0546-12 4.1506-12 2.1766-12 1.24JE-12 7.470E-13 4.683E-13 3.029E-13 2.008E-13 1.361E-13 9.394E-14 6.594E-14 4.699E-14 3.394E-14 2.482E-14 1.835E-14 1.375E-14 1.032E-14 7.833E-15 4.606E-15 2.769E-15 1.694E-15 1.051E-15 6.603E-16 DENSITY GM/CM3 4.147E-16 2.659E-16 1.723E-16 1.129E-16 1.129E-16 7.503E-17 5..62E-17 3.478E-17 2.44.E-17 1.753E-17 1.292E-17 9.788E-18 7.62;E-18 6.J86E-18 4.983E-18 4.164E-18 3.542E-18 3.56E-18 2.671E-18 2.355E+18 2.355E+18 (14) N. ₩ ₩ 355 446 515 567 567 603 653 665 665 665 715 719 721 723 723 687 695 701 701 711 739 734 734 734 735 735 735 735 735 737 737 c. HOUR-ALT 2695 210 220 240 250 250 260 280 296 300 400 400 400 400 620 640 660 701 527 560 580 580 727 745 765 785 802

M-2-2

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	N (A) /CM3	4.507E J9 1.158E J9 3.901E J8 1.527E 08		1.7156 06 8.8006 05 4.5716 05 2.3986 05 1.2696 05	6.7646 04 3.6295 04 1.9595 04 1.0625 04 1.0625 04 5.7805 03	1.739E 03 5.300E 02 1.634E 02 5.093E 01 1.602E 01	N (H) /CM3 <b>6.1</b> 50E (4	5.9806 04 5.8166 04 5.6576 04 5.5046 04 5.3566 04	5.2136 64 5.0746 04 4.9416 04 4.8116 04	4.564E .4 4.446E .4 4.332E .4 4.332E .4 4.222E .4 4.115E .4
el 2	N(HE) /CM3	2.430E UT 1.880E UT 1.574E UT 1.372E UT	1.223E 07 1.107E 07 1.010E 07 9.284E 06 8.572E 06	7.943E 36 7.381E 06 6.875E 06 6.415E 06 5.996E 06	5.612E 06 5.258E 06 4.932E 06 4.629E 06 4.349E 06	3.845E U6 3.407E U6 3.024E U6 2.687E 06 2.391E 06	2.126E U6 1.896E 06 1.691E 06 1.511E 06 1.350E 06	1.238E C6 1.081E 56 9.683E 55 8.679E 05 7.784E 35	6.9866 05 6.2746 05 5.6396 05 5.0706 05 4.5626 05	4.1)7E 05 3.732E 05 3.336E 05 3.038E 05 2.715E 05
Mod	N (0) / CH3	7.600E 10 3.875E 10 2.309E 10 1.535E 10	<b>f</b> .034E 10 7.348E 09 5.338E 09 3.940E 09 2.943E 09	2.219E 09 1.685E 09 1.288E 09 9.894E 08 7.632E 08	5.909E 08 4.590E 08 3.575E 08 2.792E 08 2.185E 08	1.345E 08 8.339E 07 5.196E 07 3.253E 07 2.045E 07	1.278E 07 8.390E 06 5.137E 06 3.272E 06 2.390E 06	1.339E 36 8.630E 95 5.540E 95 3.578E 35 2.317E 95	1.534E 35 9.791E 35 6.339E 34 4.179E 04 2.741E 34	1.8)2E 94 1.187E 04 7.842E 03 5.192E 33 3.446E 33
	N(02) /CM3	7.500E 10 2.422E 10 9.855E 39 4.569E 09	2.290E 09 1.206E 09 6.568E 38 3.667E 03 2.087E 08	1.2056 38 7.2043E 37 4.158E 07 2.475E 07 2.475E 07 1.484E 07	8.956E 06 5.433E 06 3.311E 06 2.027E 06 1.245E 06	4.747E 05 1.831E 05 7.128E 04 2.799E 04 1.108E 04	4.331E 33 1.736E 03 7.056E 02 2.843E 32 1.161E 32	4.764E 01 1.967E 01 8.162E 00 3.405E 00 1.428E 00	6.0216-01 2.5516-01 1.0866-01 4.6506-02 2.0006-02	8.643E-J3 3.753E-J3 1.638E-J3 7.180E-J4 3.163E-J4
	N (N2) /CH3	4.030E 11 1.447E 11 6.475E 10 3.267E 10	1.771E 10 1.005E 10 5.879E 09 3.519E 09 2.143E 09	1.322E 09 8.248E 08 5.192E 08 3.293E 08 2.103E 08	1.350E 08 8.707E 07 5.641E 07 3.668E 07 2.393E 07	1.0285 67 4.4615 06 1.9535 06 8.6125 05 3.8245 05	1.680E 05 7.546E 04 3.448E 04 1.547E 04 1.547E 04	3.2376 J3 1.4926 J3 6.9066 G2 3.2126 G2 1.5016 J2	7.2456 J1 3.3226 J1 1.5736 J1 7.4816 J0 3.5746 J0	1,7146 0) 8,2586-01 3,9956-01 1,9416-01 9,4656-02
731 ⁰ K	MEAN Mol WT	27.J1 26.32 25.63 24.95	24.25 23.54 22.84 22.15 22.15 21.48	20.84 20.24 19.68 19.17 18.71	18.30 17.92 17.59 17.30 17.03	16.57 16.17 15.80 15.41 14.97	14.39 13.75 12.99 12.12 11.15	10.12 9.09 11.8 11.23 7.23	5.83 4.60 4.60 4.60 4.60	4.17 4.02 3.91 3.82 3.74
T (4) =	SCALE HI KM	. 11.2 14.8 17.5 19.6	21.5 23.2 24.7 26.2 27.7	29.1 30.4 31.7 32.9 34.1	35.2 36.3 38.1 39.0	400.5 41.9 443.3 46.4 46.4	48.6 51.2 54.5 64.3 64.3	71.3 79.8 90.0 101.6 114.2	127.4 140.5 153.0 164.4 174.6	183.5 191.3 198.3 213.9 219.2
1064 ⁰ K	PRESSURE DYNE/CM2	2.722E-02 1.271E-02 6.841E-03 3.993E-03	2.4566-03 1.5706-03 1.0356-03 6.9896-04 4.8226-04	3.390E-04 2.422E-04 1.755E-04 1.288E-04 9.560E-04	7.165E-05 5.417E-05 4.126E-05 3.164E-05 2.441E-05	1.476E-05 9.082E-06 5.678E-06 3.604E-06 2.323E-06	1.515E-06 1.014E-06 6.939E-07 4.871E-07 3.518E-07	2.617E-07 2.007E-07 1.585E-07 1.286E-07 1.068E-07	9.049E-08 7.793E-08 6.801E-08 5.996E-08 5.329E-08	4.7665-08 4.2846-08 3.8666-08 3.5046-08 3.1776-08
T(14) = ]	DENS I TY GM/CM3	2.49JE-11 9.122E-12 4.174E-12 2.172E-12	1.2246-12 7.2856-13 4.5116-13 2.8836-13 1.8926-13	1.27JE-13 8.697E-14 6.064E-14 4.296E-14 3.088E-14	2.249E-14 1.657E-14 1.233E-14 9.259E-15 7.010E-15	4.102E-15 2.454E-15 1.495E-15 9.233E-16 9.233E-16	3.618E-16 2.312E-16 1.494E-16 9.776E-17 6.491E-17	4.383E-17 3.519E-17 2.127E-17 1.537E-17 1.142E-17	8.7266-18 6.8556-18 5.5266-18 4.5596-18 4.5596-18	3.283E-18 2.848E-13 2.496E-18 2.237E-18 2.237E-18 1.964E-18
~	TEMP K	355 441 505 551	585 613 633 653	663 678 685 691 691	701 705 708 711 713	717 725 722 723 724	725 725 726 726	727 727 727 727 727	728 728 728 728	728 728 729 728 728
HOUR=	ALT Kh	123 137 152	160 180 190 206	210 220 240 250 250 250 250	260 270 280 290	00000 00000 00000 00000	4445 0000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 2 0 6 6 4 2 0 6 8 6 7 0 7 0 0 7 0 0 7 0 0	72) 745 765 785 800

O ENGEN DEMON MARKA PULL	-545E DI 5-538E-01 -093E 01 2-353E-01 -468E 01 1.005E-01 -001E 00 4-312E-02
HOL WI 225.62 225.62 225.62 225.62 225.62 225.62 225.62 225.01 25.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.75 55.	5.78 6.545 5.28 3.093 1.468 1.58 7.001
H H H H H H H H H H H H H H H H H H H	129.0 142.1 154.5 155.9 155.9
PRESSURE DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM2 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYNE/CM3 DYN	8.927E-08 7.703E-08 6.731E-08 5.941E-08
<b>DENSITY</b> <b>GM/CM3</b> <b>GM/CM3</b> <b>GM/CM3</b> <b>GM/CM3</b> <b>9.1896-112</b> <b>9.1896-112</b> <b>2.1626-112</b> <b>1.2056-112</b> <b>1.2056-112</b> <b>1.2056-112</b> <b>1.7966-113</b> <b>1.7966-113</b> <b>1.7966-113</b> <b>1.7966-113</b> <b>1.7966-113</b> <b>1.7966-113</b> <b>1.7966-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-114</b> <b>2.8876-116</b> <b>3.4476-115</b> <b>5.4476-116</b> <b>1.4186-116</b> <b>1.4186-116</b> <b>1.4186-116</b> <b>1.4186-116</b> <b>1.4186-116</b> <b>1.4186-116</b> <b>1.4186-117</b> <b>2.1996-117</b> <b>2.1996-117</b> <b>2.1996-117</b> <b>2.1996-117</b> <b>2.1096-117</b> <b>2.1096-117</b> <b>2.1096-117</b> <b>2.1096-117</b> <b>2.1096-117</b> <b>2.1096-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4096-117</b> <b>3.4076-117</b> <b>3.4096-117</b> <b>3.4096-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4096-117</b> <b>3.4096-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-117</b> <b>3.4076-1</b>	6.5015-10 6.6995-18 5.4165-18 4.4795-18 4.775-18
TENP 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 2355 23555 2355 2355 2355 2355 23555 2355 2355 2355 2355 2355	
A H L K H L L L K H L L L L L L L L L L L L L L L L L L	

M-2-4-

lel 2	NCHE) NCA) /CM3 /CM3	2.400E 67 4.500E 0 1.404E 37 1.169E 0	1.631E 57 3.866E 0	1.393E 07 1.470E 0	C 3460.6 6.094E J	1-112E 07 2-682E 0	1.009E 07 1.234E 0	9.215E 06 5.873E 0	8.464E 06 2.876E 04		1.2315 UG (.3025 V 4.7146 AA 3.8235 A		5.838E 36 1.072E 0	5 4505 64 6 7735 D	5-114F 66 3-136F 0	4.797E U6 1.716E 0	4.5355 06 9.4585 0	4.235E 06 5.244E 0			3.3335 UO 3.1965 U	2.651E D6 5.459E 0	2.3695 06 1.7995 0	2.116E 36	1.896E 06 N(H)	1.699E 06 /CM3	1.525E 06	1.369E (r6 6.J51E 3.	1.231E 46 5.891E 04	1.107E 06 5.736E C	9.963E 05 5.586E 0	8.969E 05 5.441E J	8.082E 1.5 5.31E U	7.288E 05 5.165E 5	6.575E 05 5.J34E 0	5.936E 05 4.97E 0	5.362E (5 4.783E U	4.846E JS 4.664E U	4.383E 05 4.548E U	3.966E US 4.436E J	3.591E JS 4.327E J	2 3636 . 6 2316
Mo	N(0) /CH3	7.600E 10	2-350E 10	1.516E 10	1.027F 10	7.182E 09	5.140E 09	3.7456 09	2.769E 09	Z.J71E 09	1 1016 00	Q.137F DR	7.051E 08	00 3077 3	4.761F 08	3.332E 08	2.615E 08	2.0585 08			8.3855 UT	3-2635 07	2.089E 07	1.3336 07	8.596E 06	5.562E 06	3.610E 06	2.350E 06	1.534E 06	1.035E 06	6.593E 05	4.339E 05	Z-862E 05	1.893E 05	1.255E 05	8.341E 04	5.556E 04	3.71GE 04	2.483E 34	1.666E 94	1.12GE 34	60 101 F
	N(02) /CM3	7.500E 10	9.854F 09	4.465E 09	2.17RF 09	1.1185.09	5.953E 08	3.264E 08	1.832E 08	1.049E 38	0.098E 01	2.2340C 01	1.292E 07		4 8075 06	2.961E 06	1.8356 06	1.143E 06		4.484E 00	1.7885 U5	20 3450 74	1.206E 04	4-9145 03	2-046E 03	8.576E 02	3.616E J2	1.533E 02	6.539E 01	2.803E J1	1.208E 01	5.232E 00	. 2.277E 00	9.9636-01	4.380E-01	1.9356-01	8.5876-32	. 3.829E-32	1.715E-32	7.721E-J3	3.49lE-J3	
•	N(N2) /CK3	4.030E 11	4-533F 13	3.217E 10	CL JEVE I	D. AARF GO	5-410F 09	3-1646 09	1.914E J9	1.171E 09	7.266E J8		1.858E 38		1 7065 67	5,097F 07	3.3505 07	2.211E 07		9. 145H UD	4.3508.06	1.903E 00 R.937E 05	4-096E 05	1_8676 15	B.666E 34	4-0476 04	1.899E 34	8.961E 03	4.248E 03	2.023E J3	9.6B1E 32	4.653E J2	2.246E J2	1.089E 32	5.3J3E UL	2.593E 🗇	1.273E J1	6.277E U0	3.107E JD	1.545E 20	7.738E-01	
731 ⁰ K	HEAN HOL NT	10-12	10.02 55.63	24.88	31 75	23.42	22.60	21-99	21.31	20.68	20-09	****	18.61		12.01	17.54	17.25	17.00	•	16.55	16.17	15.43	15.02	14.47	13.87	13.17	12.36	11.45	10.49	9.50	8.54	7.65	6.86	6.19	5.63	5.18	4.82	4-54	4.32	4.15	4.01	
T(4) =	SCALE HT KM	11.2		19.0	0 VC	22.6	24.4	26.0	27.7	29.3	30.8	0 • 2 0 • • • • •	35.0		2.00	4.84	4.05	40.3	4	42.0	4 .	40°04	48.2	50.4	52.9	56.1	60.2	65.4	71.9	79.8	89.3	1.00.3	112.5	125.5	136.8	151.7	163.9	175.1	185.3	193.8	211.5	
064 ⁰ K	PRESSURE DYNE/CM2	2.722E-02	20-3052-1 6.6406-03	3.8066-03	<b>LU-3LUE C</b>	1.4535-03	0.404F-04	A. 3836-04	4-398E-04	3.096E-04	2.219E-04	1 1000-04	8.921E-05		6.131E-US	20-1240102 20-0702-05	3.0515-05	2.374E-05		1.461E-05	9.158E-06	5.8295-06 3 7445-06	2.4685-06	1. 6 20F-06	1.1126-06	7.7056-07	5.460E-07	3.968E-07	2.963E-07	2.2756-07	1.7956-07	1.453E-07	1.2046-07	1.0176-07	8.7436-08	7.618E-08	6.7125-38	5.965E-08	5.339F-0A	4.804E-08	4.3426-08	
T(14) = 1	DENS I TY GM/CM3	2.4956-11	9. 2495 - 12 4. 1075 - 12	2.1466-12	1 1065-17		6-204E-13	7.653F-13	1.725E-13	1.151E-13	7.866E-14	9.485E-14	2.81JE-14		2. US0E-14	1 1215-14	R. 6215-15	6.584E-15		3.9146-15	2.381E-15	1.4795-15 0 3735-14	5.901E-16	1 7715-16	2.4516-16	1.610E-16	1.07'/E-16	7.2046-17	4.923E-17	3.4226-17	2.427E-17	1.759E-17	1.3076-17	9.96.E-18	7.7885-18	6.241E-18	5.118E-18	4.2836-18	3.667F-18	3.151E-18	2.7556-18	
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31 ⁰ K	MEAN POL WT J	7.01 4.0 6.30 1.4 5.60 6.4 4.88 3.1	4.17 1.6 3.46 9.26 2.78 5.3 2.13 3.2 1.51 2.0	0.92 1.20 0.38 8.12 9.42 5.3 9.42 3.5 9.42 2.3 9.20	8.61         1.62           8.26         1.11           7.95         7.65           7.66         5.23           7.41         3.68	6-96 1-80 6-57 8-96 6-23 4-49 5-59 1-16	5.21 5.89 4.81 3.78 4.36 1.57 3.84 8.22 3.25 4.30	2.57 2.26 1.83 1.19 1.03 6.32 0.19 3.36	8.55 9.62 7.79 5.17 7.10 2.75 6.49 2.75 5.97 8.23	5.53 4.49 5.16 2.46 4.816 1.35 4.61 7.45 4.41 4.12
- 731 ⁰ K	MEAN P HOL WT J	27.01 4.0 26.35 1.4.0 25.60 6.4 24.88 3.1	24.17 23.46 22.78 22.78 22.13 22.13 21.51 2.0	20.92 1.20 20.38 8.11 19.88 5.3 19.42 3.5 19.42 3.5	18.61 1.62 18.26 1.11 17.95 7.65 17.65 5.25 17.41 3.68	16.95 8.96 1.80 16.57 8.96 16.23 4.49 15.91 2.27 15.59 1.16	15.21 5.89 14.81 3.76 14.36 1.57 13.84 8.25 13.25 4.30	12.57 2.26 11.83 1.19 11.03 6.32 10.19 3.36 9.36 1.79	8.55 9.62 7.79 5.17 7.10 2.75 6.4951 5.97 8.23	5.53 4.55 5.16 2.46 4.86 1.35 4.61 7.49 4.41 4.12
t) = 731 ⁰ K	NLE MEAN N Km mol wt		5         24.17         1.6          7         23.46         9.2          9         22.78         5.3          1         22.13         3.2           31         22.151         2.0	2.1 20.92 1.20 .0 20.38 8.1 .8 19.88 5.3 1.5 19.42 3.5 .0 19.00 2.3	0.5, 18.61         1.62           1.8         18.26         1.11           1.8         18.26         1.11           3.1         17.95         7.65           3.3         17.66         5.25           5.4         17.41         3.68	7.4         16.96         1.80           9.1         16.57         8.96           9.7         16.53         4.46           0.7         15.91         2.21           2.3         15.91         2.27           3.8         15.59         1.16	5.6         15.21         5.89           7.5         14.81         3.76           9.7         14.36         1.57           9.7         14.36         1.57           9.6         13.84         8.22           5.6         13.25         4.30	0.6         12.57         2.26           1.4         11.83         1.19           0.3         11.03         6.32           0.4         10.19         3.36           0.8         9.36         1.79	5.5         8.55         9.62           5.4         7.79         5.17           5.4         7.10         2.75           1.3         6.49         4.51           1.5         5.97         8.23	7.9         5.53         4.79           0.9         5.16         2.46           0.3         4.86         1.39           1.8         4.61         7.49           5.3         4.41         7.41
$T(4) = 731^{O}K$	SCALE MEAN P HT KM HOL WT	11.2 27.01 4.0 14.4 26.30 1.4 16.9 25.60 5.4 19.2 24.88 3.1	21.5 24.17 1.6 23.7 23.46 9.2 25.9 22.78 5.3 28.1 22.13 3.2 30.2 21.51 2.0	32.1 20.92 1.2 34.0 20.38 8.1 35.8 19.88 5.3 37.5 19.42 3.5 39.0 19.05 2.33	40.5 18.61 1.62 41.8 18.26 1.11 43.1 17.95 7.65 44.3 17.66 5.25 45.4 17.41 3.68	47.4       16.96       1.80         49.1       16.57       8.96         49.1       16.53       4.46         50.7       16.23       4.46         52.3       15.91       2.27         53.8       15.59       1.16	55.6 15.21 5.89 57.5 14.81 3.76 59.7 14.36 1.57 62.4 13.84 8.22 65.6 13.25 4.30	69.6 12.57 2.26 74.4 11.83 1.19 80.3 11.03 6.32 87.4 10.19 3.36 95.8 9.36 1.79	125.5 8.55 9.62 116.4 7.79 5.17 128.4 7.10 2.75 141.3 6.4951 154.5 5.97 8.23	167-9 5.53 4.19 180-9 5.16 2.46 193-3 4.86 1.35 214-8 4.61 7.49 215-3 4.41 4.12
$T(4) = 731^{\circ}K$	E SCALE MEAN P 2 HT KM MOL WT J	2 11.2 27.01 4.0 2 14.4 26.30 1.4 3 16.9 25.60 6.4 3 19.2 24.88 3.1	3         21.5         24.17         1.6           3         23.7         23.46         9.2           4         25.9         22.78         5.3           4         28.1         22.13         3.2           4         30.2         21.51         2.0           4         30.2         21.51         2.0	4         32.1         20.92         1.21           4         34.0         20.38         8.11           4         35.8         19.88         5.3           4         37.5         19.42         3.5           4         39.0         19.00         2.33	5 40.5 18.61 1.62 5 41.8 18.26 1.11 5 41.8 18.26 1.11 5 43.1 17.95 7.65 5 45.4 17.41 3.68	5     47.4     16.96     1.80       5     49.1     16.57     8.96       5     50.7     16.23     4.49       6     52.3     15.91     2.27       6     53.8     15.59     1.16	6 55.6 15.21 5.89 6 57.5 14.81 3.20 6 59.7 14.36 1.57 6 62.4 13.84 8.22 7 65.6 13.25 4.30	7         69.6         12.57         2.26           7         74.4         11.83         1.19           7         80.3         11.03         6.32           7         80.3         11.03         6.32           7         87.4         10.19         3.36           7         95.8         9.36         1.79	7 125.5 8.55 9.62 7 116.4 7.79 5.17 7 128.4 7.10 2.75 7 141.3 6.4951 7 154.5 5.97 8.23	I67.9         5.53         4.15           18         180.9         5.16         2.46           18         193.3         4.86         1.35           18         2.14.8         4.61         7.43           18         2.14.8         4.61         7.43           18         2.14.8         4.61         7.43           18         2.14.8         4.61         7.43           18         2.14.8         4.61         7.43
< T(4) = 731 ^O K	SURE SCALE MEAN P	EE-92         11.2         27.01         4.0           FE-02         14.4         26.33         1.4           FE-03         16.9         25.60         5.4           FE-03         19.2         24.8B         3.1	1E-03         21.5         24.17         1.6           E-03         23.7         23.46         9.2           1E-04         25.9         22.78         5.3           1E-04         28.1         22.13         3.2           1E-04         28.1         22.13         3.2           1E-04         30.2         21.51         2.0	E-04         32.1         20.92         1.20           YE-04         34.0         20.38         8.10           YE-04         34.0         20.38         8.10           YE-04         35.8         19.08         5.3           YE-04         37.5         19.42         3.5           YE-04         37.5         19.42         3.5           YE-04         39.0         19.00         2.33	FE-D5         40.5         18.61         1.62           FE-D5         41.8         18.26         1.11           FE-D5         41.8         18.26         1.11           FE-D5         43.1         17.95         7.65           FE-D5         44.3         17.66         5.25           FE-D5         45.4         17.41         3.68	ie-os     47.4     16.96     1.80       ie-os     47.4     16.57     8.96       ie-os     50.7     16.23     4.46       ie-os     52.3     15.91     2.27       ie-os     53.8     15.59     1.16	E-06 55.6 15.21 5.89 5E-06 57.5 14.81 3.76 5E-06 59.7 14.36 1.57 E-06 62.4 13.84 8.22 E-07 65.6 13.25 4.30	EE-07         69.6         12.57         2.26           IE-07         74.4         11.83         1.19           2E-07         80.3         11.03         6.32           2E-07         80.3         11.03         6.32           2E-07         87.4         10.19         3.36           2E-07         95.8         9.36         1.79	6E-37     125.5     8.55     9.62       FE-07     116.4     7.79     5.17       0E-07     128.4     7.10     2.75       0E-07     128.4     7.10     2.75       0E-07     141.3     6.49    51       0E-07     154.5     5.97     8.23	LE-08 167.9 5.53 4.79 JE-08 180.9 5.16 2.46 DE-08 193.3 4.86 1.35 SE-08 214.8 4.61 7.45 SE-08 215.3 4.41 4.12
4 ⁰ K T(4) = 731 ⁰ K	PRESSURE SCALE MEAN DYNE/CM2 HT KM MOL WT /	-722E-92 11.2 27.01 4.0 -257E-02 14.4 26.30 1.4 -635E-03 16.9 25.60 5.4 -811E-03 19.2 24.88 3.1	.329E-03 21.5 24.17 1.6 496E-03 23.7 23.46 9.2 998E-04 25.9 22.78 5.3 905E-04 28.1 22.13 3.2 899E-04 33.2 21.51 2.7	-554E-04 32.1 20.92 1.2 .627E-04 34.0 20.38 8.1 .972E-04 35.8 19.88 5.3 .501E-04 37.5 19.42 3.5 .156E-04 39.0 19.05 2.3	987E-05     43.5     18.61     1.62       057E-05     41.8     18.26     1.11       571E-05     43.1     17.95     7.65       432E-05     44.3     17.66     5.25       546E-05     45.4     17.41     3.68	-305E-05 47.4 16.96 1.80 -523E-05 49.1 16.57 8.96 -021E-05 50.7 16.23 4.49 -923E-06 52.3 15.91 2.27 -749E-06 53.8 15.59 1.16	-284E-76 55.6 15.21 5.89 -3J5E-06 57.5 14.81 3.76 -638E-96 59.7 14.36 1.57 -18°E-06 62.4 13.84 8.22 -634E-07 65.6 13.25 4.30	.427E-07 69.6 12.57 2.26 .861E-07 74.4 11.83 1.19 .752E-07 80.3 11.03 6.32 .955E-07 87.4 13.19 3.36	.945E-07 125.5 8.55 9.62 .624E-07 116.4 7.79 5.17 .379E-07 128.4 7.10 2.75 .189E-07 141.3 6.4951 .038E-07 154.5 5.97 8.23	.171E-08 167.9 5.53 4.79 .178E-08 183.9 5.16 2.46 .349E-08 193.3 4.86 1.35 .646E-08 214.8 4.61 7.49 .043E-08 215.3 4.41 4.12
$1064^{\circ} \text{K}$ $T(4) = 731^{\circ} \text{K}$	PRESSURE SCALE MEAN DYNEJCM2 HT KM MOL WT	2.722E-92 11.2 27.01 4.0 1.257E-02 14.4 26.30 1.4 6.635E-03 16.9 25.60 5.4 3.811E-03 19.2 24.88 3.1	2.329E-03 21.5 24.17 1.6 1.496E-03 23.7 23.46 9.2 9.998E-04 25.9 22.78 5.3 6.905E-04 28.1 22.13 3.2 4.899E-04 30.2 21.51 2.0	3.554E-04 32.1 20.92 1.20 2.627E-04 34.0 20.38 8.10 1.972E-04 35.8 19.88 5.3 1.501E-04 37.5 19.42 3.5 1.156E-04 39.0 19.00 2.33	8.987E-05 43.5, 18.61 1.62 7.055E-05 41.8 18.26 1.11 5.571E-05 41.8 18.26 1.11 5.571E-05 43.1 17.95 7.65 4.432E-05 44.3 17.66 5.25 3.546E-05 45.4 17.41 3.66	2.305E-05 47.4 16.96 1.80 1.523E-05 49.1 16.57 8.96 1.021E-05 50.7 16.23 4.49 6.923E-06 52.3 15.91 2.27 4.749E-06 53.8 15.59 1.16	3.284E-06 55.6 15.21 5.89 2.395E-06 57.5 14.81 3.24 1.638E-96 59.7 14.36 1.57 1.18°E-06 62.4 13.84 8.22 8.634E-07 65.6 13.25 4.30	6.42 ⁰ E-07 69.6 12.57 2.26 4.861E-07 74.4 11.83 1.19 3.752E-07 80.3 11.03 6.32 2.955E-07 87.4 10.19 3.36 2.374E-07 95.8 9.36 1.79	1.945E-37 135.5 8.55 9.62 1.624E-07 116.4 7.79 5.17 1.379E-07 128.4 7.13 2.75 1.189E-07 128.4 7.13 2.75 1.038E-07 154.5 5.97 8.23	9.171E-08 167.9 5.53 4.79 8.178E-08 180.9 5.16 2.46 7.349E-08 193.3 4.86 1.35 6.646E-08 2.44.8 4.61 7.45 6.043E-08 215.3 4.41 4.12
$= 1064^{\circ} \text{K}$ $T(4) = 731^{\circ} \text{K}$	ITY PRESSURE SCALE MEAN 1 13 DYNE/CM2 HT KM MOL WT 1	-11         2.722E-92         11.2         2.701         4.0           -12         1.257E-02         14.4         26.33         1.4           -12         6.635E-03         16.9         25.60         6.4           -12         3.811E-03         19.2         24.8B         3.1	-12 2.329E-03 21.5 24.17 1.6 -13 1.496E-03 23.7 23.46 9.2 -13 9.998E-04 25.9 22.78 5.3 -13 6.905E-04 28.1 22.13 3.2 -13 4.899E-04 30.2 21.51 2.0	-13 3.554E-04 32.1 20.92 1.20 -14 2.627E-04 34.0 20.38 8.10 -14 1.972E-04 35.8 19.88 5.3 -14 1.501E-04 37.5 19.42 3.5 -14 1.156E-04 39.0 19.00 2.33	114       8.987E-05       40.5,       18.61       1.62         -14       7.057E-05       41.8       18.26       1.11         -14       7.057E-05       43.1       17.95       7.65         -14       4.432E-05       44.3       17.65       5.25         -15       3.546E-05       45.4       17.41       3.68	-15       2.305E-05       47.4       16.96       1.80         -15       1.523E-05       49.1       16.57       8.96         -15       1.021E-05       50.7       16.23       4.49         -15       6.923E-06       52.3       15.91       2.27         -15       4.749E-06       53.8       15.59       1.16	-16 3.284E-06 55.6 15.21 5.89 -16 2.335E-06 57.5 14.81 3.76 -16 1.638E-96 59.7 14.36 1.57 -16 1.18°E-06 62.4 13.84 8.22 -16 8.634E-07 65.6 13.25 4.30	-16 6.427E-07 59.6 12.57 2.26 -17 4.861E-07 74.4 11.83 1.19 -17 3.752E-07 80.3 11.03 6.32 -17 2.955E-07 87.4 10.19 3.36	-17 1.945E-07 125.5 8.55 9.62 -17 1.624E-07 116.4 7.79 5.17 -17 1.379E-07 128.4 7.10 2.75 -17 1.189E-07 128.4 7.10 2.75 -18 1.038E-07 154.5 5.97 8.23	-18 9.171E-08 167.9 5.53 4.79 -18 8.178E-08 180.9 5.16 2.46 -18 7.349E-08 193.3 4.86 1.35 -18 6.646E-08 2.44.8 4.61 7.45 -18 6.043E-08 2.14.8 4.41 4.12
(14) = $1064 ^{\circ} K$ $T(4) = 731 ^{\circ} K$	ENSITY PRESSURE SCALE MEAN P M/CM3 DYNE/CM2 HT KM MOL WT /	9(E-11 2.722E-92 11.2 27.01 4.0 63E-12 1.257E-02 14.4 26.33 1.4 83E-12 6.635E-03 16.9 25.60 5.4 22E-12 3.811E-03 19.2 24.88 3.1	64E-L2 2.329E-03 21.5 24.17 1.6 BIE-L3 1.496E-03 23.7 23.46 9.2 57E-L3 9.998E-04 25.9 22.78 5.3 59E-L3 6.905E-04 28.1 22.13 3.2 63E-L3 4.899E-04 30.2 21.51 2.0	04E-L3       3.554E-04       32.1       20.92       1.2         33E-L4       2.627E-04       34.0       20.38       8.1         37E-L4       1.972E-04       35.8       19.88       5.3         04E-L4       1.972E-04       37.5       19.42       3.5         04E-L4       1.501E-04       37.5       19.42       3.5         04E-L4       1.501E-04       37.5       19.42       3.5         04E-L4       1.156E-04       39.0       19.05       2.3	54E-14       8.987E-05       40.5       18.61       1.62         68E-14       7.0557E-05       41.8       18.26       1.11         37E-14       5.571E-05       43.1       17.95       7.65         16E-14       4.432E-05       44.3       17.66       5.25         41E-15       3.546E-05       45.4       17.41       3.68	75E-15         2.305E-05         47.4         16.96         1.80           1 E-15         1.523E-05         49.1         16.57         8.96           91E-15         1.021E-05         50.7         16.23         4.49           17E-15         6.923E-06         52.3         15.91         2.21           17E-15         4.749E-06         53.8         15.59         1.16	47E-16 3.284E-76 55.6 15.21 5.89 76E-16 2.335E-06 57.5 14.81 3.76 19E-16 1.638E-76 59.7 14.36 1.57 33E-16 1.18°E-06 62.4 13.84 8.22 62E-16 8.634E-07 65.6 13.25 4.30	0.2E-16       6.42°5-07       69.6       12.57       2.26         4.4E-17       4.861E-07       74.4       11.83       1.19         4.3E-17       3.752E-07       80.3       11.03       6.32         07E-17       2.955E-07       87.4       10.19       3.36         29E-17       2.374E-07       95.8       9.36       1.79	67E-17 1.945E-37 135.5 8.55 9.62 24E-17 1.624E-07 116.4 7.79 5.17 34E-17 1.379E-07 128.4 7.13 2.75 5.27 5.26-17 1.189E-07 141.3 6.49 2.51 45E-18 1.038E-07 154.5 5.97 8.23	36E-18     9.171E-08     167.9     5.53     4.19       48E-18     8.178E-08     183.9     5.16     2.46       62E-18     7.349E-08     193.3     4.86     1.35       75E-18     6.446E-08     214.8     4.61     7.45       75E-18     6.446E-08     214.8     4.61     7.45       29E-18     6.043E-00     215.3     4.41     4.12
$T(14) = 1064 ^{\circ}K$ $T(4) = 731 ^{\circ}K$	DENSITY PRESSURE SCALE MEAN GM/CM3 DYNE/CM2 HT KM MOL WT /	2.495E-11 2.722E-92 11.2 27.01 4.0 9.263E-12 1.257E-02 14.4 26.33 1.4 4.183E-12 6.635E-03 16.9 25.60 5.4 2.122E-12 3.811E-03 19.2 24.88 3.1	1.164E-12       2.329E-03       21.5       24.17       1.6         6.781E-13       1.496E-03       23.7       23.46       9.22         4.157E-13       9.998E-04       25.9       22.78       5.3         2.659E-13       6.905E-04       28.1       22.13       3.2         1.763E-13       4.899E-04       30.2       21.51       2.0	1.204E-13 3.554E-04 32.1 20.92 1.20 8.433E-14 2.627E-04 34.0 20.38 8.10 6.J37E-14 1.972E-04 35.8 19.88 5.3 4.404E-14 1.501E-04 37.5 19.42 3.5 3.264E-14 1.156E-04 39.0 19.00 2.3	2.454E-14       8.987E-05       40.5       18.61       1.62         1.868E-14       7.055E-05       41.8       18.26       1.11         1.437E-14       5.571E-05       43.1       17.95       7.65         1.116E-14       4.432E-05       44.3       17.65       5.25         8.741E-15       3.546E-05       45.4       17.41       3.68	5.475E-15       2.305E-05       47.4       16.96       1.80         3.51 E-15       1.523E-05       49.1       16.57       8.96         2.291E-15       1.021E-05       50.7       16.23       4.49         1.517E-15       6.923E-06       52.3       15.91       2.27         1.617E-15       4.749E-06       53.8       15.59       1.16	6.847E-16 3.284E-06 55.6 15.21 5.89 4.676E-16 2.395E-06 57.5 14.81 3.20 3.219E-16 1.638E-96 59.7 14.36 1.57 2.233E-16 1.18°E-06 62.4 13.84 8.22 1.562E-16 8.634E-07 65.6 13.25 4.30	1.1.1.2E-16       6.427E-07       69.6       12.57       2.26         7.8644E-17       4.861E-07       74.4       11.83       1.19         5.643E-17       3.752E-07       80.3       11.03       6.32         4.107E-17       2.955E-07       87.4       10.19       3.36         4.107E-17       2.955E-07       87.4       10.19       3.36         3.129E-17       2.374E-07       95.8       9.36       1.79	2.267E-17 1.945E-37 125.5 8.55 9.62 1.724E-17 1.624E-07 116.4 7.79 5.17 1.334E-17 1.379E-07 128.4 7.10 2.75 1.552E-17 1.189E-07 128.4 7.10 2.75 8.449 2.51 8.445E-18 1.038E-07 154.5 5.97 8.23	6.936E-18       9.171E-08       167.9       5.53       4.15         5.748E-18       8.178E-08       183.9       5.16       2.46         4.8627E-18       7.349E-38       193.3       4.86       1.35         4.175E-18       7.349E-38       193.3       4.86       1.35         4.175E-18       6.646E-38       2.46       7.48       4.61       7.43         3.629E-18       6.043E-08       215.3       4.41       4.124
$T(14) = 1064 ^{O}K$ $T(4) = 731 ^{O}K$	DENSITY PRESSURE SCALE MEAN GM/CM3 DYNE/CM2 HT KM MOL WT /	5       2.495E-11       2.722E-92       11.2       27.01       4.0         9       9.263E-12       1.257E-02       14.4       26.33       1.4         1       4.183E-12       6.635E-03       16.9       25.60       6.4         1       2.122E-12       3.811E-03       19.2       24.88       3.1	2       1.164E-12       2.329E-03       21.5       24.17       1.6         6       6.781E-13       1.496E-03       23.7       23.46       9.2         7       4.157E-13       9.998E-04       25.9       22.78       5.3         2       659E-13       6.905E-04       28.1       22.13       3.2         1       7.63E-13       6.905E-04       28.1       22.13       3.2         1       7.63E-13       4.899E-04       30.2       21.51       2.0	3       1.224E-13       3.554E-04       32.1       20.92       1.20         3       8.433E-14       2.627E-04       34.0       20.38       8.10         5       6.437E-14       1.972E-04       35.8       19.08       5.3         5       6.404E-14       1.972E-04       37.5       19.42       3.5         6       404E-14       1.501E-04       37.5       19.42       3.5         1       3.264E-14       1.156E-04       39.0       19.05       2.3	0     2.454E-14     8.987E-05     40.5     18.61     1.62       0     1.868E-14     7.055E-05     41.8     18.26     1.11       1     1.437E-14     5.571E-05     43.1     17.95     7.65       1     1.116E-14     4.432E-05     44.3     17.66     5.25       1     8.741E-15     3.546E-05     45.4     17.41     3.68	3       5.475E-15       2.305E-05       47.4       16.96       1.80         5       3.51       E-15       1.523E-05       49.1       16.57       8.96         7       2.291E-15       1.021E-05       50.7       16.23       4.49         1       1.517E-15       6.923E-06       52.3       15.91       2.21         1       1.517E-15       4.749E-06       53.8       15.91       2.27	7 6.847E-16 3.284E-06 55.6 15.21 5.89 8 4.676E-16 2.335E-06 57.5 14.81 3.76 9 3.219E-16 1.638E-96 59.7 14.36 1.57 1 2.233E-16 1.18°E-06 62.4 13.84 8.22 1 1.562E-16 8.634E-07 65.6 13.25 4.33	1         1.1.22E-16         6.427E-07         69.6         12.57         2.26           1         7.864E-17         4.861E-07         74.4         11.83         1.19           2         5.643E-17         3.752E-07         80.3         11.03         6.32           2         4.107E-17         2.955E-07         87.4         10.19         3.36           2         4.107E-17         2.955E-07         87.4         10.19         3.36           2         4.107E-17         2.955E-07         87.4         10.19         3.36           2         4.107E-17         2.374E-07         95.8         9.36         1.79	2 2.267E-17 1.945E-07 125.5 8.55 9.62 2 1.724E-17 1.624E-07 116.4 7.79 5.17 3 1.334E-17 1.379E-07 128.4 7.10 2.75 3 1.552E-17 1.189E-07 128.4 7.10 2.75 3 8.445E-18 1.038E-07 154.5 5.97 8.23	3 6.936E-18 9.171E-08 167.9 5.53 4.19 3 5.748E-18 8.178E-08 183.9 5.16 2.46 3 4.862E-18 7.349E-08 193.3 4.86 1.35 3 4.175F-18 6.646E-38 214.8 4.61 7.43 3 4.175F-18 6.043E-08 215.3 4.41 4.12
8 $T(14) = 1064^{\circ}K$ $T(4) = 731^{\circ}K$	TEMP DENSITY PRESSURE SCALE MEAN P K GM/GM3 DYNE/CM2 HT KM MOL WT J	355       2.49(E-11       2.722E-92       11.2       27.01       4.0         429       9.263E-12       1.257E-02       14.4       26.33       1.4         488       4.183E-12       6.635E-03       16.9       25.60       6.4         538       2.122E-12       3.811E-03       19.2       24.88       3.1	582       1.164E-12       2.329E-03       21.5       24.17       1.6         622       6.781E-13       1.496E-03       23.7       23.46       9.2         659       4.157E-13       9.998E-04       25.9       22.78       5.3         691       2.659E-13       6.905E-04       28.1       22.13       3.2         713       1.763E-13       4.899E-04       30.2       21.51       2.0	743       1.204E-13       3.554E-04       32.1       20.92       1.20         763       8.433E-14       2.627E-04       34.0       20.38       8.10         781       6.137E-14       1.972E-04       35.8       19.88       5.3         795       4.404E-14       1.501E-04       37.5       19.42       3.5         803       3.264E-14       1.156E-04       39.0       19.03       2.3	823       2,454E-14       8,987E-05       40.5,       18.61       1.62         829       1,868E-14       7.055E-05       41.8       18.26       1.11         837       1,437E-14       5.571E-05       43.1       17.95       7.65         844       1.116E-14       4.432E-05       44.3       17.66       5.25         849       8.741E-15       3.546E-05       45.4       17.41       3.68	858       5.475E-15       2.305E-05       47.4       16.96       1.80         865       3.51       E-15       1.523E-05       49.1       16.57       8.96         871       2.291E-15       1.021E-05       50.7       16.23       4.49         873       1.517E-15       6.923E-06       52.3       15.91       2.21         875       1.017E-15       4.749E-06       53.8       15.59       1.16	877       6.847E-16       3.284E-76       55.6       15.21       5.89         878       4.676E-16       2.335E-76       57.5       14.81       3.76         879       3.219E-16       1.638E-76       59.7       14.36       1.57         883       2.233E-16       1.18°E-06       62.4       13.84       8.22         881       1.562E-16       8.634E-07       65.6       13.25       4.335	881       1.1.0.2E-16       6.427E-07       69.6       12.57       2.26         881       7.864E-17       4.861E-07       74.4       11.83       1.19         882       5.643E-17       3.752E-07       80.3       11.03       6.32         882       4.107E-17       2.955E-07       87.4       10.19       3.36         882       4.107E-17       2.955E-07       87.4       10.19       3.36         882       4.107E-17       2.374E-07       95.8       9.36       1.79	882       2.267E-17       1.945E-37       125.5       8.55       9.62         882       1.724E-17       1.624E-07       116.4       7.79       5.17         883       1.334E-17       1.524E-07       128.4       7.10       2.75         883       1.552E-17       1.189E-07       128.4       7.10       2.75         883       1.552E-17       1.189E-07       154.5       5.97       8.23         883       8.445E-18       1.038E-07       154.5       5.97       8.23	883       6.9046-18       9.1716-08       167.9       5.53       4.19         883       5.7486-18       8.1786-08       180.9       5.16       2.46         883       4.8626-18       7.3496-08       180.9       5.16       2.46         883       4.8626-18       7.3496-08       193.3       4.86       1.35         883       4.1756-18       7.3496-08       193.3       4.86       1.35         883       4.1756-18       6.04460-08       214.8       4.61       7.45         883       4.1756-18       6.04360-08       214.8       4.61       7.45         883       3.6299-18       6.04360-08       215.3       4.41       4.12
= 8 T(14) = 1064 ^O K T(4) = 731 ^O K	TEMP DENSITY PRESSURE SCALE MEAN P K GM/GM3 DYNE/CM2 HT KM MOL WT J	<b>355</b> 2.490E-11 2.722E-92 11.2 27.01 4.0 429 9.263E-12 1.257E-02 14.4 26.30 1.4 488 4.183E-12 6.635E-03 16.9 25.60 5.4 538 2.122E-12 3.811E-03 19.2 24.88 3.1	582       1.164E-12       2.329E-03       21.5       24.17       1.6         622       6.781E-13       1.496E-03       23.7       23.46       9.27         659       4.157E-13       9.998E-04       25.9       22.78       5.3         691       2.659E-13       6.905E-04       28.1       22.13       3.2         719       1.763E-13       4.899E-04       30.2       21.51       2.0	743       1.204E-13       3.554E-04       32.1       20.92       1.20         763       8.433E-14       2.627E-04       34.0       20.38       8.19         781       6.037E-14       1.972E-04       35.8       19.88       5.3         795       4.404E-14       1.501E-04       37.5       19.42       3.5         803       3.264E-14       1.156E-04       39.0       19.00       2.33	823       2.454E-14       8.987E-05       40.5/       18.61       1.62         829       1.868E-14       7.055E-05       41.8       18.26       1.11         837       1.437E-14       5.571E-05       43.1       17.95       7.65         844       1.116E-14       4.432E-05       44.3       17.66       5.25         849       8.741E-15       3.546E-05       45.4       17.41       3.68	858       5.475E-15       2.305E-05       47.4       16.96       1.80         865       3.51       E-15       1.523E-05       49.1       16.57       8.96         873       2.291E-15       1.021E-05       50.7       16.23       4.49         873       1.517E-15       6.923E-06       52.3       15.91       2.27         875       1.617E-15       4.749E-06       53.8       15.59       1.16	877       6.847E-16       3.284E-76       55.6       15.21       5.89         878       4.676E-16       2.335E-76       57.5       14.81       3.75         879       3.219E-16       1.638E-76       59.7       14.36       1.57         879       3.219E-16       1.638E-76       59.7       14.36       1.57         880       2.233E-16       1.18°E-06       62.4       13.84       8.22         881       1.562E-16       8.634E-07       65.6       13.25       4.30	881       1.1.1.2E-16       6.427E-07       69.6       12.57       2.26         801       7.864E-17       4.861E-07       74.4       11.83       1.19         802       5.643E-17       3.752E-07       80.3       11.03       6.32         882       4.107E-17       2.955E-07       80.3       11.03       6.32         882       4.107E-17       2.955E-07       87.4       10.19       3.36         882       4.107E-17       2.955E-07       87.4       10.19       3.36         882       4.107E-17       2.374E-07       95.8       9.36       1.79	882       2.267E-17       1.945E-07       1.95.5       8.55       9.62         882       1.724E-17       1.624E-07       116.4       7.79       5.17         843       1.334E-17       1.379E-07       128.4       7.10       2.75         843       1.524E-17       1.379E-07       128.4       7.10       2.75         843       1.554E-17       1.1899E-07       128.4       7.10       2.75         883       1.554E-17       1.1899E-07       141.3       6.49      51         803       8.445E-18       1.038E-07       154.5       5.97       8.23	883       6.936E-18       9.171E-08       167.9       5.53       4.15         803       5.748E-18       8.178E-08       183.9       5.16       2.46         883       4.8627E-18       7.349E-08       193.3       4.86       1.35         883       4.175E-18       7.349E-08       193.3       4.86       1.35         883       4.175E-18       6.646E-08       2.44.8       4.61       7.45         883       4.175E-18       6.646E-08       2.44.8       4.61       7.45         883       3.629E-18       6.043E-08       215.3       4.41       4.124
400  M = 8 T(14) = $1064$ ^O K T(4) = 731 ^O K	ALF TEMP DENSITY PRESSURE SCALE MEAN P (M K GM/GM3 DYNE/CM2 MT KM MOL WT J	12:       355       2.49(E-11       2.722E-92       11.2       27.01       4.0         13:       429       9.263E-12       1.257E-02       14.4       26.33       1.4         40       4.88       4.183E-12       6.635E-03       16.9       25.60       6.4         53       2.122E-12       3.811E-03       19.2       24.88       3.1	(6)       582       1.164E-12       2.329E-03       21.5       24.17       1.6         (7)       622       6.781E-13       1.496E-03       23.7       23.46       9.2         (8)       659       4.157E-13       9.998E-04       25.9       22.78       5.3         (9)       691       2.659E-13       6.905E-04       28.1       22.13       3.2         (9)       719       1.763E-13       4.899E-04       30.2       21.51       2.0	210       743       1.204E-13       3.554E-04       32.1       20.92       1.20         220       763       8.433E-14       2.627E-04       34.0       20.38       8.10         235       781       6.137E-14       1.972E-04       35.8       19.08       5.3         235       781       6.137E-14       1.972E-04       35.8       19.08       5.3         24.0       795       4.404E-14       1.501E-04       37.5       19.42       3.5         25.0       8.33       3.264E-14       1.156E-04       39.0       19.05       2.33	26.0       82.0       2.454E-14       8.987E-05       40.5       18.61       1.62         27.0       82.9       1.868E-14       7.055E-05       41.8       18.26       1.11         28.0       837       1.437E-14       5.571E-05       43.1       17.95       7.65         29.0       844       1.116E-14       4.432E-05       44.3       17.66       5.25         10.5       849       8.741E-15       3.5546E-05       45.4       17.41       3.6E	322       858       5.475E-15       2.305E-05       47.4       16.96       1.80         34.2       865       3.51/E-15       1.523E-05       49.1       16.57       8.96         365       871       2.291E-15       1.021E-05       50.7       16.23       4.49         360       873       1.517E-15       6.923E-06       52.3       15.91       2.27         301       875       1.617E-15       4.749E-06       53.8       15.59       1.16	+20       877       6.847E-16       3.284E-06       55.6       15.21       5.89         +40       878       4.676E-16       2.335E-06       57.5       14.81       3.76         +60       879       3.219E-16       1.638E-06       59.7       14.36       1.57         +81       3.219E-16       1.638E-06       59.7       14.36       1.57         +82       880       2.233E-16       1.18°E-06       62.4       13.84       8.22         +81       1.562E-16       8.634E-07       65.6       13.25       4.30	52.0     881     1.102E-16     6.420E-07     69.6     12.57     2.26       54.0     881     7.844E-17     4.861E-07     74.4     11.83     1.19       56.0     882     5.643E-17     3.752E-07     80.3     11.03     6.32       58.0     882     4.107E-17     2.955E-07     87.4     10.19     3.36       58.0     882     4.107E-17     2.955E-07     87.4     10.19     3.36       58.0     882     4.107E-17     2.374E-07     95.8     9.36     1.79	520       882       2.267E-17       1.945E-07       125.5       8.55       9.62         547       882       1.724E-17       1.624E-07       116.4       7.79       5.17         552       883       1.334E-17       1.624E-07       128.4       7.10       2.75         540       883       1.354E-17       1.189E-07       128.4       7.10       2.75         540       883       1.554E-17       1.189E-07       141.3       6.49      51         700       803       8.445E-18       1.038E-07       154.5       5.97       8.23	72)     803     6.9046-18     9.171E-08     167.9     5.53     4.19       74/     803     5.7486-18     8.1786-08     180.9     5.16     2.46       76:     883     4.8626-18     7.3496-08     193.3     4.86     1.35       76:     883     4.1756-18     7.3496-08     193.3     4.86     1.35       78:     883     4.1756-18     7.3496-08     193.3     4.86     1.35       78:     883     4.1756-18     6.6466-08     214.8     4.61     7.45       78:     883     3.6296-18     6.0436-08     215.3     4.41     7.45

	N(A) /CH3	4.500E 39 1.166E 09 3.843E 08 1.465E 48	6.2286 07 2.8826 07 1.4246 07 7.4086 06 4.0106 06	2.240E 36 1.284E 36 7.508E 95 4.466E 95 2.694E 95	1.644E 05 1.013E 05 6.296E 04 3.940E 04 2.481E 04	9.994E 03 4.093E 03 1.698E 03 7.124E 02 3.016E 02	N (H) /CM3 5.772E 04	5.653E 04 5.538E 04 5.425E 04 5.316E 04 5.210E 04	5.106E 04 5.006E 04 4.908E 04 4.812E 04 4.719E 04	4.628E 34 4.544E 34 4.454E 34 4.454E 34 4.369E 34 4.287E 34
del 2	NCHE) /CM3	2.400E 07 1.896E 07 1.579E 07 1.351E 07	1.181E J7 1.050E J7 9.464E G6 8.630E D6 7.941E U6	7.3588 06 6.83588 06 6.4218 06 6.0348 06 5.0348 06 5.6888 06	5.375E 06 5.0916 06 4.830E 06 4.590E 06 4.366E 06	3.965E 06 3.611E 06 3.297E 06 3.016E 06 2.763E 06	2.532E 06 2.325E 06 2.136E 06 2.136E 06 1.964E 06 1.808E 06	1.664E 56 1.533E 56 1.413E 56 1.314E 06 1.233E 56 1.233E 56	1.1116 06 1.0266 06 9.4796 05 8.7638 05 8.1068 05	7.501E US 6.944E US 6.432E US 6.432E US 5.967E US 5.525E US
Wo	N(0) /CM3	7.630E 13 3.924E 10 2.348E 10 1.461E 13	9.7746 09 6.8386 09 4.9576 09 3.6956 09 2.8156 09	2.182E 09 1.715E 09 1.364E 09 1.094E 09 8.848E 08	7.199E 08 5.889E 08 4.8335 08 3.995E 08 3.302E 08	2.2795 08 1.5865 08 1.1115 08 7.8295 07 5.5385 07	3.917E 07 2.790E 07 1.992E 07 1.427E 07 1.024E 07	7.368E 06 5.312E 06 3.838E 06 2.778E 06 2.718E 06 2.315E 06	1.465E 06 1.057E 06 7.782E 05 5.688E 05 4.165E 05	3.3555 05 2.2455 05 1.6535 05 1.2195 05 9.3346 04
	N(02) /CH3	7.50UE 10 2.443E 10 9.755E 39 4.400E 39	2.1746 09 1.1546 09 6.4756 08 3.7956 38 2.3016 38	1.433E 08 9.118E 07 5.904E 07 3.879E 07 3.879E 07 2.578E 07	1.731E 07 1.172E 07 7.988E 36 5.479E 06 3.777E 06	1.8196 06 8.8826 05 4.3856 05 2.1846 05 1.0966 05	5.494E 04 2.791E 04 1.425E 04 7.315E 03 3.772E 03	1.9536 03 1.0166 03 5.3036 02 2.7806 02 1.4638 02	7.731E 01 4.100E 01 2.183E 01 1.166E 01 1.166E 01 6.253E 00	3.365E 00 1.818E 00 9.851E-01 5.358E-01 2.924E-01
۰ . ر	N(N2) /CM3.	4.006 11 1.461E 11 6.424E 10 3.153E 10	1.680E 13 9.549E 19 5.711E 09 3.553E 39 2.280E 09	1.500E J9 1.006E J9 6.854E J8 4.732E J8 3.333E J8	2.326E 38 1.650E 38 1.179E 38 8.463E 37 6.136E 37	3.215E J7 1.715E J7 9.236E J6 5.015E D6 2.742E D6	1.497E J6 8.270E J5 4.591E J5 2.560E J5 1.433E J5	8.053E 04 4.543E 04 2.572E 04 1.461E 04 8.327E 03	4.763E 03 2.733E 03 1.574E 03 9.089E 32 5.267E 02	
731 ⁰ K.	MEAN . MOL NT	27.01 26.31 25.62 24.93	24.26 23.61 22.99 22.39 21.83	21.29 20.78 20.31 19.87 19.47	19.09 18.74 18.42 18.13 17.85	17.39 16.98 16.63 16.63 16.03	15°71 15°41 15°08 14°72 14°31	13.84 13.31 12.73 12.08 11.39	10.67 9.93 9.23 8.49 7.82	7.21 6.66 5.75 5.39
T(4) =	SCALE HT KM	11.2 14.6 17.3 20.1	22.9 28.1 20.5 20.5 20.5 20.5	35.0 37.0 40.7 42.4	4444 466 966 966 967 967 967 97 97 97 97 97 97 97 97 97 97 97 97 97	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	60.1 61.7 63.5 67.8	70.6 73.8 77.7 82.3 87.8	94.3 1.22.0 110.7 120.7 131.7	143.7 156.5 169.8 183.2 196.6
1064 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.2636-02 6.7376-03 3.9446-03	2.4746-03 1.6376-03 1.1276-03 8.0166-04 5.8466-04	4.353E-04 3.297E-04 2.533E-04 1.971E-04 1.549E-04	1.229E-04 9.827E-05 7.913E-05 6.419E-05 5.221E-05	3.513E-05 2.401E-05 1.662E-05 1.164E-05 8.227E-06	5.852E-C6 4.213E-C6 3.061E-06 2.244E-06 1.662E-06	1.245E-06 9.434E-07 7.243E-07 5.639E-07 4.457E-07	3.5776-67 2.9176-07 2.4166-07 2.0326-07 1.7346-07	1.499E-07 1.312E-07 1.161E-07 1.036E-07 9.327E-08
T(14) = ]	DENSITY GM/CM3	2.49,E-11 9.212E-12 4.144E-12 2.098E-12	1.160E-12 6.897E-13 4.327E-13 2.841E-13 1.933E-13	1.355E-13 9.731E-14 7.132E-14 5.320E-14 4.028E-14	3.090E-14 2.398E-14 1.879E-14 1.486E-14 1.184E-14	7.671E-15 5.081E-15 3.426E-15 2.344E-15 1.623E-15	1.13 E-15 7.963E-16 5.655E-16 4.,43E-16 2.909ē-10	2.107E-16 1.535E-16 1.126E-16 8.323E-17 8.323E-17	4.659E-17 3.536E-17 2.712E-17 2.105E-17 1.655E-17	1.319E-17 166E-17 8.742E-18 7.272E-18 6.135E-18
\$T	TEMP K	355 434 501 564	622 675 765 765	823 847 868 905	<b>913</b> 924 941 941	958 965 974 977	979 983 982 982 983	9 8 4 9 8 4 9 8 5 9 8 5	985 985 985 985	989 989 989 989 989 989
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16 T(14) 1064 R T(1) 711 Q Multi Million Model 2 17.0 0WKSTWE EGAL Multi Million 355 $2.4974-12$ $1.7280-02$ 15.3 25.33 $1.400-02$ 1.72916 1.72916 1.74916		N(A) /CH3	4 6001 10	1.141F 09	3.8785 08	1.571E U8				1.0536 .7	6.946F 36		3.563E 06	2.142E.06	1.308E 26	8.091E 75		3.185E 05	2.J21E 05	I.290E 05	8.271E 04		2.234E 34	9.481E 73	4.J63E 03	1.130E J3 7 6665 63		1	N (FL)	/ CFI3	5.8286 34		5.711E J4	5.598E 04	10 10 10 10 10 10 10 10 10 10 10 10 10 1	5.275F 04		3+1741 04 i	5. 14E 04	4.9/8E 04	4-707F .4		4.702E 04	4.615E 04	4.530E 04	4.446E .4	4.365E 04
16 T(14) = 1064 °K T(3) = 731 °K N(N2) N(02) N(01) 757 99267-11 1.7325-02 11.12 27.336 17.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 13 7.4306 14	odel 2	N (HE) /CM3	2.4006 07	1.8436 17	1.513E 07	1.291E J7	TA 3551 1		0 30 30 70 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10	8.5385 LA	7.935 66		7.388E 66	6.942E 36	0.0475 00	0.1905 Jb		5.584E 06	5.315E 56	2.004E 00	4.613F U6		4.214E 66	3.8585 06		2.9865 56		2.745E 06	2.528E 06	2.324E .6	1.98JE 56		1-828E 06	1.5676 06	1.4425 .6	1.334E J6			1 7600 5		9. 389E 55		8.429E JS	7.821E J5	1.260E 05	6.1425 J5	CD 1407+0
16 $T(14) = 1064^{\circ}$ $T(a) = 731^{\circ}$ N(N2) N(O2) 557 0.40C43 0NNE/CAR HT KM N(N2) N(O2) 557 0.40C43 0NNE/CAR HT KM N(N2) N(O2) 557 2.4975E-12 11.205E-03 18.9 25.639 11.205E 25.95 577 2.3195E-12 7.1795E-03 18.9 25.53 25.495 10 4.505E 10 577 4.351E-12 7.1795E-03 18.9 25.53 10.7726 21.995E 10 7.576E 10 573 7.235E-13 5.985E-13 2.995E-13 2.995E 10 7.976E	N N	N [0] / CM3	7.630E 13	3.7686 13	2.1976 10	1.410E 1D	9.681F 99	6.982F 39	5.226F 39	4.0095 09	3.140E 09		2.498E 09	1 6326 30	1.3355 00	1.0986 09		9.3715 08	4 2415 00	5 224E DB	4.3695 08		3.072E 08	2.173E 08	1.177F 48	7.8895 07		5.646E 07	4.J64E UT	2.121F 07	1.537E 07		1.11/E U/ 8 1276 A4	5.927F 16	4.331E 36	3.1716 06	2.376F A6	1.7:06 16	1.2595 76	9.2835 05	6.859E 35		5.)77E 05	3.765E J5	2.190E 75	CC 3080-5	
16 T(14) = $1064 \ ^{K}$ T(4) = $731 \ ^{K}$ MN2 15.4 CENSITY PRESSURE SCALE MEAN MN2 355 2.449:E-11 2.722E-02 11.2 27.31 4.0006 11. 647 0.WIC/M3 0.WIC/M2 HT KH MCL MN2 MN2 355 2.449:E-11 2.722E-02 11.2 27.31 4.0006 1.1 647 M.224E-12 1.206E-03 15.3 2.6.33 1.4.466 10 6753 1.224E-12 1.206E-03 30.1 2.2.39 1.2.766 10 6753 1.224E-13 1.0986-03 30.1 2.2.95 3.0.37 30 6754 1.1.105E-03 30.1 2.2.337 0.406 0.2.366 0.206 7.5055 3.3176-14 1.7195-03 30.1 2.2.25.32 2.0596 0.206 0.0746 0.0746 0.0746 0.0746 0.0746 0.0746 0.0746 0.0746 0.0746 0.0746 0.0746 <t< td=""><td></td><td>N(02) /CM3</td><td>7.530E 13</td><td>2.375E 10</td><td>9.6576 09</td><td>4.55/E 39</td><td>2.384E 09</td><td>1.343E 09</td><td>7.979E 08</td><td>4.932E 08</td><td>3.1396 38</td><td></td><td>2. 3535 JB</td><td>9.083F 07</td><td>6-163F 07</td><td>4.218E 07</td><td></td><td>2. 408E 01</td><td>1.4056 37</td><td>9.8346 36</td><td>6.907E 36</td><td></td><td>3.438F U6</td><td>8.7615 05</td><td>4.471E 35</td><td>2.2966 05</td><td></td><td>1.17/E JS</td><td>3.1815 14</td><td>1.665E 34</td><td>8.751E J3</td><td>CI 3017 7</td><td>7.448F 03</td><td>1-303E 03</td><td>6.9588 32</td><td>3.731E J2</td><td>2.308F 02</td><td>1.0855.02</td><td>5.886E 01</td><td>3.1996 01</td><td>1.747E 01</td><td></td><td>9.573E 00</td><td>0. 2045 JU 7. 0145 JU</td><td>1.6386 22</td><td>8.931E-01</td><td>4.2</td></t<>		N(02) /CM3	7.530E 13	2.375E 10	9.6576 09	4.55/E 39	2.384E 09	1.343E 09	7.979E 08	4.932E 08	3.1396 38		2. 3535 JB	9.083F 07	6-163F 07	4.218E 07		2. 408E 01	1.4056 37	9.8346 36	6.907E 36		3.438F U6	8.7615 05	4.471E 35	2.2966 05		1.17/E JS	3.1815 14	1.665E 34	8.751E J3	CI 3017 7	7.448F 03	1-303E 03	6.9588 32	3.731E J2	2.308F 02	1.0855.02	5.886E 01	3.1996 01	1.747E 01		9.573E 00	0. 2045 JU 7. 0145 JU	1.6386 22	8.931E-01	4.2
16 $T(14) = 1064$ $^{\circ}$ $T(4) = 731$ $^{\circ}$ TEMPDENSITYPRESSURESCALEHEM3552.495E-112.722E-0211.227.213552.495E-122.195E-0318.926.634578.924E-122.195E-0318.926.635774.551E-127.175E-0318.926.635734.551E-122.897E-0323.2225.395734.551E-137.175E-0318.925.645731.224E-122.897E-0323.2223.975951.224E-131.416E-0323.2223.978731.395E-131.498E-0328.223.978731.395E-131.035E-0437.121.889951.716E-135.854E-0437.121.889151.7262E-141.741E-0445.219.669151.262E-141.741E-0445.219.669151.262E-141.741E-0445.219.669161.265E-141.732E-0437.121.889172.381E-141.741E-0445.219.669182.3376-141.332E-0447.818.969191.735E-142.751E-055.1655.20.359101.265E-142.1725E-055.21.259111.265E-152.1935E-0447.89121.332E-141.7725E-055.21.259132.265E-141.7725E-055.21.259141.776E-152.1935E-04 </td <td>NINZI</td> <td>N(N2) /CH3</td> <td>11 30CC-4</td> <td>1.416E 11</td> <td>6.2985 13</td> <td>rt 3217+c</td> <td>1.796E 10</td> <td>1.076E 10</td> <td>6.768E 39</td> <td>4.415E 09</td> <td>2.959E J9</td> <td>7.036E 30</td> <td>1.407E 09</td> <td>9.904E 98</td> <td>7.040E JB</td> <td>5. J44E J8</td> <td>01 JEC 7 6</td> <td>2. 777 Ju</td> <td>1.921E 38</td> <td>1.404E 38</td> <td>1.030E 08</td> <td>5 500 VJ</td> <td>3.0585 77</td> <td>1.686E)7</td> <td>9.353E J6</td> <td>5.216E 36</td> <td>2 074 C</td> <td>1.635F 16</td> <td>9.237E 35</td> <td>5.240E J5</td> <td>2.984E J5</td> <td>1.7.156 15</td> <td>9.778E 34</td> <td>5.627E 14</td> <td>3.249E 44</td> <td>1.883E 34</td> <td>1.094E 04</td> <td>6.382E)3</td> <td>3.734E J3</td> <td>2.191E J3</td> <td>1.290E 13</td> <td></td> <td>4 1125 52</td> <td>7.681F 32</td> <td>1.597F J2</td> <td>9.5465 1</td> <td>,</td>	NINZI	N(N2) /CH3	11 30CC-4	1.416E 11	6.2985 13	rt 3217+c	1.796E 10	1.076E 10	6.768E 39	4.415E 09	2.959E J9	7.036E 30	1.407E 09	9.904E 98	7.040E JB	5. J44E J8	01 JEC 7 6	2. 777 Ju	1.921E 38	1.404E 38	1.030E 08	5 500 VJ	3.0585 77	1.686E)7	9.353E J6	5.216E 36	2 074 C	1.635F 16	9.237E 35	5.240E J5	2.984E J5	1.7.156 15	9.778E 34	5.627E 14	3.249E 44	1.883E 34	1.094E 04	6.382E)3	3.734E J3	2.191E J3	1.290E 13		4 1125 52	7.681F 32	1.597F J2	9.5465 1	,
16 $T(14) = 1064$ R $T(4)$ REHP DENSITY PRESSURE SCALE 355 2:49:E-11 2:722E-02 11.2 355 2:49:E-12 1:289E-02 15.3 547 2:051E-12 1:289E-02 15.3 557 2:051E-12 1:289E-03 18.2 553 1:224E-12 1:098E-03 22.2 625 1:224E-12 1:098E-03 22.2 833 1:234E-13 1:098E-03 23.2 833 1:035E-14 1:719E-03 23.2 833 1:035E-14 2:189E-04 39.3 833 1:035E-14 2:198E-05 31.7 833 1:035E-14 2:198E-05 39.2 915 1:035E-14 2:198E-05 39.2 915 1:262E-13 1:035E-04 47.1 915 1:035E-14 2:198E-05 39.2 915 1:035E-14 2:189E-05 39.2 910 2:055E-13 1:0	731 K MEAN	MEAN MOL HT	16.72	26.33 25.33	25.08		24.49	23.92	23.37	22.84	22,32	21.83	21.35	23.89	20.46	20.05	19 44	06.61	18.96	18.64	18.35	17.82	17.38	16.99	16.65	16.35	16.75	15.76	15.47	15.16	14.82	14-44	14.01	13.52	12.93	12.38	11.74	11.05	10.35	9.64	8.94	7 C 8	7-64	7.07	6.56	6.13	
16T (14)= 1064 $^{\circ}$ NTEMPDENSITYPRESSURE3552.49:E-112.722E-025578.924E-121.176E-035578.924E-121.176E-035578.924E-127.176E-035578.924E-127.176E-035578.924E-127.176E-035532.491E-131.416E-038951.224E-127.179E-049151.2381E-131.416E-039151.254E-131.035E-049151.2381E-131.035E-049151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-142.751E-059151.252E-152.495E-059151.575E-152.435E-059151.575E-151.712E-059101.175E-152.455E-0591101.175E-152.455E-05912112.315E-162.345E-0591221.256E-163.345E-0591331.596E-162.455E-0591311.175E-152.455E-0591311.175E-152.455E-0591321.175E-161.0659E-0591331.	T(4) = SCALE	SCALE HT KM	11.2	15.0	22.2) 	25.3	28.2	30.7	1.	2.45	37.1	39.0	40.7	42.2	43.7	45.2	46.5	47.8	C*64	50.2	52.3	54.2	56.0	57.6	59.1	60.6	62.2	63.8	65.5	67.4	69.6	72.2	75.3	78.9	83.2	88.3	94.3	101.3	109.5	118.7	179	140-4	152.7	165.6	179.5	
16 T(14) = TEMP DENSITY 355 2.49:E-11 355 2.49:E-12 547 4.051E-12 557 4.051E-12 553 2.49:E-12 573 8.924E-12 573 8.924E-12 573 8.0516-12 873 2.0196-12 873 3.387E-14 873 3.387E-14 915 1.224E-14 955 1.254E-14 954 4.254E-14 955 1.254E-14 955 1.254E-14 955 1.254E-14 955 1.254E-14 955 1.254E-14 955 1.254E-14 956 4.254E-14 957 1.254E-14 958 1.254E-14 959 1.254E-14 965 1.254E-14 974 3.337E-14 983 1.556E-15 1009 1.556E-15 1009 1.556E-16 1001 1.556E-15	PRESSURE	DYNE/CM2.	2.722E-02	1.176F-03	4.403E-03		2.897E-03	1.988E-03	1.416E-03	1.035E-03	* 1 1 A E - 0 4	5.8546-04	4.50LE-04	3.502E-04	2.751E-04	2.1876-34	1.741E-04	1.400E-04	1.132E-34	9.211E-05	7.5296-05	5.096E-05	3.501E-05	2.435E-05	1.712E-J5	L.215E-05	8.677E-06	6.2645-06	4.559E-36	3.345E-36	2.416E-06	1.849E-06	1.394E-J6	1.063E-06	8.20 E-07	0.400E-J/	5.072E-07	4.0745-07	3.3246-07	2.745E-07	2.3036-07	1-9595-07	1.6896-07	1.4736-07	1.299E-37	1.157E-07	
L6 TFMP X X X X X X X 45 27 27 25 27 27 25 27 27 25 27 27 25 27 27 25 27 27 25 27 27 25 27 27 25 27 27 25 27 27 27 27 27 27 27 27 27 27 27 27 27	DENSITY	GH/CH3	2.495E-11 8.924E-13	4.051E-12	2.1196-12		1.224E-12		3, 3875-15	2.381F-14		1.7166-13	1.262E-13	9.435E-14	r.1556-14	3.492E-14	4.261E-14	3.337E-14	2.635E-14	2.396E-14	1.0/96-14	1. J97E-14	7.3126-15	4.956E-15	3.4.16-15	<1-1 /c·2	1.659E-15	1.1756-15	8.39.E-1ú	6. J285-10	01-3066 • •	3.16'JE-16	2.313E-16	1./05E-16	01-3202-1	11-3004.6	7.0586-17	5.33/E-1/	4.J/IE-17	3.1326-17	6.434E-11	1.92.E-17	1.5296-17	1.2345-17	1.4095-17	8.357E-18	
4	TEMP	×	355	547	627		695 753	108	833	678	4 - -	895	916	55 A	010	104	965	416	98)	(B F	60 F	966	1001	1004			1009	111	1101	2111	(1/1	1013	1013	1014	1 1 1 4		1015		6171 9171	1115	C1 C1	1015	1015	1015	1015	31CI	
H H X H H H H H H H H H H H H H H H H H	ALT KL	X .	12.	140	15;		100	180	191	200		212	(22	(636	1.1.1		260	273	1.82		200	320	0.4 C	196 196		, ,	420	144	460			525	ດ ເຊັ່ງ ເ	, a 4	509 907	,	623		0 0		1 00	720	74.	76:	78.5	C 1 8	

	N(A) /CH3	4.500E 09 1.139E 09 3.885E 08 1.582E 08	7.234E 07 3.579E 07 1.871E 07 1.017E 07 1.017E 07 5.697E 06	3.261E 06 1.899E 06 1.120E 06 6.679E 05 4.017E 05	2.433E 05 1.482E 05 9.076E 04 5.581E 04 3.445E 04	1.3255 04 5.1535 03 5.0225 03 2.0225 03 8.0005 02 3.1885 02	N (H) /CM3 5.983E 04	5.850E 04 5.722E 04 5.597E 04 5.476E 04 5.359E 04 5.359E 04	5.244E 34 5.133E 44 5.425E 44 4.920E 44 4.817è 44	4.718E J4 4.621E 44 4.526E 44 4.346 44 4.345E 44
del 2	N (HE) /CH3	2.4006 J7 1.842E U7 1.514E J7 1.299E D7	1.148E 07 1.034E 67 9.451E 36 8.725E 36 8.115E 06	7.5895 06 7.1265 06 6.7135 36 6.3405 06 5.3405 06	5.685E 06 5.394E 06 5.124E 06 4.871E 06 4.634E 06	4.201E 06 3.815E 06 3.469E 06 3.159E 06 3.159E 06 2.879E 06	2.623E 06 2.394E 06 2.187E 06 1.998E 06 1.828E 06	1.672E 06 1.531E 06 1.403E 06 1.403E 06 1.266E 06 1.266E 06	1.082E _6 9.933E _5 9.124E ~5 8.385E ~5 8.385E ~5 7.710E ~5	7.092E v5 6.528E v5 6.011E v5 5.537E v5 5.103E v5 5.103E v5
Moo	N(D) /CH3	7.630E 13 3.764E 10 2.231E 19 1.424E 10	9.853E 39 7.1396 39 5.342E 39 4.392E 39 3.188E 09	2.5166 39 2.3356 09 1.6106 09 1.3006 09 1.3556 09	8.594E 08 7.023E 08 5.754E 08 4.725E 08 3.887E 08	2.6446 08 1.8076 08 1.2416 08 8.547E 08 8.547E 07 5.908E 07	4.079E 07 2.835E 07 1.975E 07 1.379E 07 9.656E 06	6.776E 06 4.765E 06 3.358E 06 2.372 E 06 1.679E 06	1.191E 06 8.465E 05 6.229E 05 6.229E 05 4.322E 05 3.376E 05	2.234E 05 1.562E 05 1.138E 05 8.1936 04 5.917E 04
	N (02) / CM3	- 7.500E 10 2.372E 10 9.673E 09 4.593E 09	2.409E 09 1.353E 09 7.965E 08 4.853E 08 3.032E 08	1.931E 08 1.247E 08 8.151E 07 5.374E 07 3.570E 07	2.3366 07 1.6026 07 1.0306 07 7.3136 06 4.9656 06	2.307E 06 1.382E 06 5.110E 05 2.430E 05 1.162E 05	5.545E 04 2.680E 04 1.302E 04 6.354E 03 3.116E 03	1.535E 03 7.593E 52 3.7736 52 1.883€ 42 9.436E €1	4.7496 01 2.3996 J1 1.2176 J1 6.1996 J2 3.1766 00	1.627E 00 8.385E-01 4.337E-01 2.252E-01 1.173E-01
4	N(NZ) /CH3	4.0J0E 11 1.414E 11 6.309E 15 3.235E 10	1.818E 13. 1.088E 10 6.797E 09 4.384E 39 2.894E 39	1.944E 09 1.323E 09 9.130E 08 6.311E 08 4.436E 30	3.093E 08 2.181E 08 1.544E 08 1.096E 08 7.808E 07	3.989E 07 2.054E 07 1.065E 07 5.553E 26 2.911E 36	1.523E 06 8.054E 05 4.279E 05 2.283E 05 1.223E 15	6.580E 34 3.553E 04 1.926E 04 1.048E 04 5.723E 03	3.137E U3 1.725E U3 9.523E U2 5.275E U2 5.275E U2 2.932E U2	1.635E 32 9.149E 31 5.137E 01 2.893E 31 1.635E 31
731 ⁰ K	HEAN Hol WT	27.31 26.33 25.69 25.07	24.47 23.89 23.31 22.75 22.20	21.67 21.16 20.67 20.21 19.78	19.37 18.99 18.64 18.32 18.32	17.50 17.50 16.68 16.35 16.35	15.71 15.38 15.33 14.63 14.17	13.65 13.65 12.49 11.67 10.90	1C.1J 9.31 8.54 7.82 7.16	6. 57 6. 36 5. 25 5. 25 4. 95
$T(4) = 731^{O_{K}}$	SCALE MEAN HT KM MOL WT	11.2 27.01 15.4 26.33 16.8 25.69 18.8 25.07	24.7 24.47 27.2 23.89 29.4 23.31 31.3 22.75 33.2 22.20	34.8 21.67 36.4 21.16 37.9 20.67 39.3 20.21 40.6 19.78	41.9 19.37 43.1 18.99 44.3 18.64 45.3 18.32 46.4 18.02	48.3 17.50 50.0 17.50 51.5 16.68 53.0 16.35 54.4 16.34	55.9 15.71 57.5 15.38 59.2 15.03 61.2 14.63 63.6 14.17	66.4 13.65 69.9 13.05 74.1 12.49 79.2 11.67 85.3 10.90	92.5 IC.10 101.0 9.31 110.8 8.54 121.8 7.82 133.8 7.16	146.6 6.57 159.8 6.36 173.2 5.62 186.4 5.25 199.5 4.95
.064 ^O K T(4) = 731 ^O K	PRESSURE SCALE MEAN DYNE/CM2 HT KH MOL WT	2.7226-02 11.2 27.31 1.2886-02 15.4 26.33 7.1686-03 18.8 25.69 4.3086-03 21.9 25.07	2.858E-03 24.7 24.47 1.944E-03 27.2 23.89 1.365E-03 29.4 23.31 9.819E-04 31.3 22.75 7.201E-04 33.2 22.20	5.3666-04 34.8 21.67 4.053E-04 36.4 21.16 3.097E-04 37.9 20.67 2.392E-04 39.3 20.21 1.861E-04 40.6 19.78	1.461E-04 41.9 19.37 1.154E-04 41.9 19.37 9.183E-05 44.3 18.64 7.346E-05 45.3 18.32 5.907E-05 46.4 18.02	3.871E-05 48.3 17.50 2.576E-05 50.0 17.06 1.737E-05 51.5 16.68 1.185E-05 53.0 16.35 1.185E-05 54.4 16.04	5.665E-06 55.9 15.71 3.981E-06 57.5 15.38 2.826E-06 59.2 15.03 2.027E-06 61.2 14.63 1.471E-06 63.6 14.17	1.001E-06 66.4 13.65 8.062E-37 69.9 13.06 6.104E-37 74.1 12.49 4.705E-07 79.2 11.67 3.684E-07 85.3 10.90	2.941E-J7 92.5 1C.10 2.391E-J7 171.9 9.31 1.979E-07 110.8 8.54 1.666E-07 121.8 7.82 1.424E-J7 133.8 7.16	1.235E-07 146.6 6.57 1.084E-07 159.8 6.06 9.609E-08 173.2 5.62 8.597E-08 186.4 5.25 7.755E-08 199.0 4.95
$T(14) = 1064 ^{O}K$ $T(4) = 731 ^{O}K$	DENSITY PRESSURE SCALE MEAN GM/CM3 DYNE/CM2 HT KH MOL WT	2.490.6-11 2.7226-02 11.2 27.01 8.9136-12 1.2886-02 15.4 26.33 4.0586-12 7.1686-03 18.8 25.69 2.1376-12 4.3886-03 21.9 25.07	1.24 E-12 2.858E-03 24.7 24.47 7.697E-13 1.944E-03 27.2 23.89 5.016E-13 1.365E-03 29.4 23.31 3.391E-13 9.819E-04 31.3 22.75 2.358E-13 7.201E-04 33.2 22.75	1.677E-13 5.366E-04 34.8 21.67 1.216E-13 4.053E-04 36.4 21.16 8.951E-14 3.097E-04 37.9 20.67 6.681E-14 2.399E-04 39.3 20.21 5.647E-14 1.861E-04 40.6 19.78	3.853E-14 1.461E-04 41.9 19.37 2.969E-14 1.154E-04 41.9 19.37 2.307E-14 9.183E-05 44.3 18.64 1.807E-14 7.346E-05 45.3 18.32 1.425E-14 5.907E-05 46.4 18.02	9. C27E-15 3. 871E-05 48.3 17.50 5. 838E-15 2.576E-05 50.0 17.06 3. 84CE-15 1. 737E-05 51.5 16.68 2. 562E-15 1.185E-05 53.0 16.35 1. 733E-15 8.166E-06 54.4 16.04	1.175E-15 5.665E-06 55.9 15.71 8.077E-16 3.981E-06 57.5 15.38 5.597E-16 2.826E-06 59.2 15.03 3.906E-16 2.027E-06 61.2 14.63 2.745E-16 1.471E-06 63.6 14.17	1.943E-16 1.001E-06 66.4 13.65 1.385E-16 8.062E-37 69.9 13.06 9.952E-17 6.104E-37 74.1 12.49 7.213E-17 4.705E-07 79.2 11.67 5.279E-17 3.684E-07 85.3 10.90	3.955E-17 2.941E-57 92.5 1C.10 2.925E-17 2.391E-57 151.5 9.31 2.221:E-17 1.979E-07 110.8 8.54 1.715E-17 1.666E-07 121.8 7.82 1.339E-17 1.424E-37 133.8 7.16	1
18 T(14) = 1064 ^O K T(4) = 731 ^O K	TEMP DENSITY PRESSURE SCALE MEAN K GM/CH3 DYNE/CM2 HT KH MOL WT	355 2.49000000000000000000000000000000000000	678 1, 24 E-12 2, 858E-03 24, 47 24, 47 726 7, 697E-13 1, 944E-03 27, 2 23, 89 763 5, 016E-13 1, 965E-03 29, 4 23, 31 792 3, 391E-13 9, 819E-04 31, 3 22, 75 815 2, 358E-13 7, 201E-04 33, 2 22, 20	834 1.677E-13 5.366E-04 34.8 21.67 848 1.216E-13 4.053E-04 36.4 21.16 848 1.216E-14 3.097E-04 37.9 20.67 869 6.681E-14 3.097E-04 39.3 20.21 869 6.681E-14 2.395E-04 39.3 20.21 877 5.647E-14 1.861E-04 40.6 19.78	883 3.853E-14 1.461E-04 41.9 19.37 888 2.959E-14 1.154E-04 41.9 19.37 892 2.307E-14 9.183E-05 44.3 18.64 895 1.807E-14 7.346E-05 45.3 18.64 895 1.807E-14 7.346E-05 45.3 18.63 895 1.807E-14 7.346E-05 45.3 18.02 898 1.425E-14 5.907E-05 46.4 18.02	903 9.027E-15 3.871E-05 48.3 17.50 905 5.038E-15 2.576E-05 50.0 17.50 903 3.840E-15 1.737E-05 51.5 16.68 909 2.562E-15 1.185E-05 53.0 16.35 901 1.730E-15 8.166E-06 54.4 16.35	911 1.175E-15 5.665E-06 55.9 15.71 912 8.077E-16 3.981E-06 57.5 15.38 913 5.597E-16 2.826E-06 59.2 15.03 913 3.906E-16 2.027E-06 61.2 14.63 914 2.745E-16 1.471E-06 63.6 14.17	914 1.943E-16 1.081E-06 66.4 13.65 914 1.385E-16 8.062E-37 59.9 13.06 915 9.952E-17 6.104E-07 74.1 12.40 915 7.213E-17 4.700E-07 79.2 11.67 915 5.279E-17 3.684E-07 85.3 10.90	915 3.9556-17 2.9416-37 92.5 16.13 915 2.9256-17 2.3916-37 101.0 9.31 916 2.2246-17 1.9796-07 110.8 8.54 916 1.7156-17 1.6666-07 121.8 7.82 915 1.3396-17 1.4246-37 133.8 7.16	915 1

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	N (A) /CH3	4.550E 09 1.142E 9 3.896E 38 1.581E 38	7.1486 07 3.4716 07 1.7686 07 9.3136 06 5.7266 06	2.761E 06 1.538E 06 8.656E 05 4.913E 05 2.808E 05	1.614E 05 9.323E 04 5.400E 04 3.148E 04 1.839E 04	6.332E F3 2.202E 03 7.729E 02 2.735E U2 9.752E 51	N (H) /CM3 6.122E 34	5.971E 04 5.824E 04 5.6828E 04 5.5458 04 5.5458 04	5.2828 04 5.1578 04 5.1358 04 4.9178 04 4.8028 04	4.6918 J4 4.5628 J4 4.4718 J4 4.4718 J4 4.3758 J4 4.2768 J4
del 2	N(HE) /CM3	2.4305 07 1.8485 07 1.5275 07 1.3185 07	1.172E U7 1.059E 07 9.707E U6 6.974E 06 8.347E U6	7.7982 J6 7.3395 J6 6.8685 C6 6.4655 U6 6.0945 Q6	5.752E V6 5.433E V6 5.137E 06 4.859E 06 4.859E 06 4.600E 06	4.126E U6 3.708E U6 3.335E U6 3.003E U6 2.707E U6	2.44JE J6 2.2J2E J6 1.99UE J6 1.799E V6 1.627E J6	1.473E 36 1.334E 46 1.219E 46 1.097E 46 9.951E 45	9.035E 35 8.239E 35 7.462E 35 6.187E 35 6.176E 35	5.623E J5 5.123E J5 4.67JE J5 4.259E J5 3.886E J5
OM	N(0) /CM3	7.600E 10 3.781E 10 2.224E 10 1.448E 10	1.0)5E 10 7.283E 09 5.429E 09 4.128E 09 3.184E 09	2.481ĕ 09 1.948E 09 1.539E 09 1.221E 09 9.724E 08	7.767E 38 6.220E 08 4.991E 08 4.013E 08 4.013E 08	2.104E 08 1.376E 08 9.036E 07 5.955E 07 3.937E 07	2.5996 37 1.7286 07 1.1526 37 7.7336 36 5.1636 36	3.469E 36 2.337E 06 1.578E 06 1.368E 36 7.246E 35	4.9286 05 3.3596 05 2.2946 05 1.5716 05 1.3786 05	7.410E 34 5.1.6E 34 3.526E 04 2.44.9E 04 1.692E 34
	N(02) /CM3	7.505E 10 2.305E 10 9.726E 39 4.616E 09	2.4365 09 1.3345 39 7.7115 08 4.5885 08 2.7875 38	1.719E 38 1.0735 38 6.759E 07 4.287E 07 2.7355 07	1.7536 37 1.1296 07 7.2926 36 4.7256 36 4.7256 36	1.306E J6 5.599E D5 2.419E D5 1.J52E Q5 4.604E D4	2.006E 04 8.876E 03 3.948E 03 1.765E 03 7.934E 03	3.534E J2 1.627E J2 7.418E J1 3.399E J1 1.565E J1	7.2386 00 3.3636 00 1.5696 00 7.3576-01 3.464E-01	1.638E-01 7.778E-U2 3.710E-02 1.777E-02 1.777E-02 8.545E-03
	N(N2) /CM3	4.000E 11 1.420E 11 6.351E 10 3.261E 10	1.826E 10. 1.082E 10. 6.661E 09 4.212E 09 2.716E 09	1.776E 39 1.173E 09 7.817E 98 5.243E 08 3.534E J8	2.3936 38 1.6276 93 1.1096 98 7.5826 37 5.1976 97	2.457E 07 1.170E 07 5.611E 05 2.706E 06 1.312E 6	6.341E 05 3.105E 05 1.527E 05 7.548E 04 3.747E 04	1.868E 34 9.354E 33 4.734E 33 2.375E 33 1.234E 33	6.1295 22 3.1326 22 1.6176 22 8.2786 01 4.2806 91	2.2226 J1 1.1576 J1 6.0536 J3 3.1776 J3 1.6736 J3
731 ⁰ K	MEAN MOL WT	27.01 26.33 25.68 25.05	22.59 23.81 23.19 22.59 22.59	21.42 20.87 20.35 19.86 19.40	18.97 18.59 18.23 17.91 17.62	17.11 16.69 16.31 15.97 15.63	15.23 14.82 14.33 13.15 13.15	12.35 11.52 10.63 9.72 8.83	7.98 7.21 5.54 5.49 5.49	5.10 4.78 4.53 4.17
= (ψ) I	SCALE HT KH	11.2 15.3 18.5 21.4	23.8 25.8 27.7 29.3 30.8	32.3 34.6 34.6 37.6	38.5 39.6 41.5 42.5	44° 45° 447° 447° 448° 448° 448° 448°	51.4 53.2 55.3 61.3	65.4 70.6 84.7 93.8	1.14.3 116.1 128.8 142.2 155.2	168.1 180.2 191.3 2.1.4 210.3
1064 ⁰ K	PRESSURE DYNE/CM2	2.722E-02 1.286E-02 7.112E-03 4.309E-03	2.7565-03 1.8495-03 1.2726-03 8.9555-04 6.4226-04	4.6786-04 3.4546-04 2.5886-04 1.9486-04 1.4846-04	1.14JE-04 8.822E-05 6.874E-05 5.388E-05 4.247E-05	2.676E-05 1.714E-05 1.113E-05 7.316E-06 4.867E-06	3.267E-06 2.228E-36 1.541E-06 1.082E-36 7.737E-U7	5.64JE-07 4.2JIE-07 3.2J2E-07 2.499ē-J7 1.996-U7	1.63.5-07 1.3595-07 1.1545-07 9.9575-08 8.7J35-08	7.697E-J8 6.856E-08 6.157E-08 5.561E-08 5.046E-08
T(14) =	DENS I I V GM/CM3	2.49.E-11 8.946E-12 487E-12 2.157E-12	1.249E-12 7.697E-13 4.961E-13 3.306E-13 2.26'E-13	1.5786-13 1.1226-13 8.0916-14 5.9166-14 4.3776-14	3.2746-14 2.4736-14 1.8846-14 1.4476-14 1.1196-14	6.8265-15 4.2536-15 2.696E-15 1.733E-15 1.127E-15	7.3716-16 4.8865-16 3.2666-10 2.2026-10 1.4956-10 1.4956-10	1.0296-16 7.1476-17 5.0206-17 3.5866-17 2.0006-17	1. 9216-17 1. 4476-17 1. 1146-17 8. 7666-18 7476-18	5.783E-18 4.637E-18 4.114E-18 3.55 E-16 3.102E-18
20	1EMP K	355 455 537 602	651 688 715 735 752	764 773 780 785 791	795 798 802 802 804	807 809 813 812 812	812 813 813 813	888887 897 897 897 897 897 897 897 897 8	815 815 815 815 815 815	815 815 815 816 816
HOUR=	AL T Km	120 130 141	160 177 180 190 200 200	210 220 231 245 250	280 280 293 305 305	340 340 380 40	4 4 4 4 5 6 4 4 4 5 6 6 5 6 5 7 6 6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	555 5655 605 605	62) 64) 660 701	725 7455 8665 805

		0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 0 8 0	01000	0 0 0 0 0 0 0 0 0 0 0 0	00000 04444	1 2 2 8 9 9 8 8 9 9 9 8 8 9 9	. 4	44444	44444	44444
	ыл) /Снз	4.500E 1.147E 3.906E 1.570E	6,984E 3,313E 1,641E 8,371E 4,364E	2.313E 1.241E 6.725E 3.674E 2.021E	1.1186 6.2166 3.4716 1.9466 1.956	3.498E 1.130E 3.687E 1.214E 4.028E	N (H) /CM3 6.168E	6.0)68 5.8486 5.6968 5.5498 5.498	5.268E 5.134E 5.J.5E 4.88U 4.758E	4.6408 4.5268 4.4158 4.3086 4.2038
let 2	N (HE) /CM3	2.4006 27 1.8576 07 1.5426 07 1.3386 07	1.1926 07 1.0816 07 9.9446 06 9.1446 06 9.1446 06 8.4936 06	7.912E 06 7.393E 06 6.923E 06 6.494E 06 6.494E 06	5.7358 06 5.3978 06 5.0838 06 4.7938 06 4.5178 06	4.022E 06 3.587E 06 3.203E 06 3.203E 06 2.863E 06 2.863E 06 2.562E 06	2.2928 v6 2.0558 v6 1.8438 v6 1.6558 v6 1.4878 v6	1.3368 46 1.2028 46 1.0028 46 9.7598 45 8.7898 45	7.926E 55 7.153E 55 6.460E 35 5.837E 45 5.837E 45	4.7746 05 4.3216 05 3.9146 05 3.5476 05 3.2166 05
Moc	N(D) /CH3	7.600E 10 3.808E 10 2.253E 10 1.472E 10	1.0216 10 7.3636 09 5.446E 09 4.099E 09 3.124E 09	2.402E 09 1.860E 09 1.448E 09 1.132E 09 8.876E 08	6.983E 08 5.537E 08 4.353E 08 3.447E 08 2.734E 08	1.727E 08 1.097E 08 6.994E 07 4.477E 07 2.876E 07	1.845E 07 1.192E 07 7.730E 06 5.326E 06 3.277E 06	2.1426 36 1.4046 36 9.2286 35 6.3896 05 6.3896 05	2.659E 05 1.765E 05 1.176E 05 1.174E 05 7.832E 04 5.236E 04	3.538E 04 2.356E 04 1.586E 04 1.070E 04 7.235E 09
	N102) /CH3	7.500E 10 2.392E 10 9.784E 39 4.620E 09	2.3826 09 1.2986 09 7.3436 08 4.2626 08 4.2626 08	1.5116 08 9.1566 07 5.5956 07 3.4426 07 2.1306 07	1.3246 07 3.2686 06 5.1816 06 3.2576 06 2.0535 06	8.2256 05 3.3256 05 3.3556 05 1.3556 05 5.5606 04 2.2976 04	9.452E 03 3.952E 03 3.952E 03 1.662E 03 7.930E 02 2.993E u2	1.278E 32 5.493E 01 2.373E J1 1.337E J1 4.496E 03	1.9716 00 8.6876-01 3.8466-01 1.7116-01 7.6476-02	3.434E-02 1.549E-02 7.J19E-03 3.L95E-03 1.461E-03
•	N (N 2) / C H 3	4.000E 11 1.427E 11 6.400E 10 3.276E 10	1.818E 10. 1.063E 10 6.425E 39 3.979E 09 2.506E 39	1.598E 09 1.C29E 09 6.6806 08 4.362E 08 2.863E 08	1.8886 38 1.2496 38 8.2926 07 5.5216 37 3.6356 37	1.653E 37 7.478E 06 3.406E 06 1.561E 06 7.200E 05	3.3086 05 1.5428 05 7.2208 04 3.3988 04 1.6078 04	7.638E 03 3.646E 03 1.748E 13 8.420E 13 4.073E 02	1.979E U2 9.655E 31 4.731E 31 2.327E U1 2.327E U1	5.773E JJ 2.841ë JJ 1.420E JJ 7.134E-J1 3.593E-J1
731 ⁰ K	MEAN Mol WT	27.01 26.32 25.67 25.02	24.37 23.72 23.07 23.07 22.42 21.79	21.19 20.61 20.06 19.56 19.09	18.66 18.28 17.93 17.51 17.33	16.84 16.43 15.73 15.32	14.85 14.33 13.71 12.99 12.17	11.25 10.28 9.31 8.36 7.53	6.74 5.55 5.12 4.78	4.51 4.13 4.13 3.90
T (4) =	SCALE HT KM	11.2 15.1 18.2 20.7	22.8 24.7 25.3 29.2 29.2	9.00 9.00 9.45 9.45 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4	36. 6 9 9 9 6 9 9 8 6 9 9 9 9 9 9 9 9 9 9 9	441.9 444.0 44.0 47.0 50 47.0	49. 51. 61. 61. 7	67.2 73.9 82.2 92.0 173.3	115.6 128.7 141.9 154.8 166.9	177.9 187.7 196.3 2)3.9 210.5
1064 ⁰ K	PRESSURE DYNE/CM2	2.722E-02 1.282E-02 7.032E-03 4.207E-03	2.6596-03 1.7466-03 1.7466-03 1.1836-03 8.1556-04 8.1556-04 5.7446-04	4.112E-04 2.9866-04 2.195E-04 1.632E-04 1.226E-04	9.285E-05 7.090E-05 5.453E-05 4.220E-05 4.220E-05 3.264E-05	2.0196-05 1.2636-05 8.0136-06 5.1546-06 3.3626-06	2.216E-06 1.497E-06 1.019E-06 7.118E-07 5.086E-07	3.7276-07 2.8056-07 2.1706-07 1.7246-07 1.7246-07 1.4046-07	1.169E-07 9.924E-08 8.55 ⁵ E-08 7.481E-08 6.606E-08	5.883E-08 5.274E-08 4.752E-08 4.301E-08 3.905E-08
r(14) +	DENS I TY GH/CH3	2.49:6-11 8.9976-12 4.1216-12 2.17.6-12	1.2486-12 7.6096-13 4.8366-13 3.1716-13 2.1326-13 2.1326-13	1.463E-13 1.023E-13 7.257E-14 5.223E-14 3.807E-14	2.8376-14 2.0916-14 1.5736-14 1.1936-14 1.1936-14	5.426E-15 3.302E-15 2.044E-15 1.284E-15 8.156E-16	5.211E-16 3.378E-16 2.211E-16 1.462E-16 9.777E-17	6.623E+17 4.555E-17 3.186E-17 2.276E+17 1.661E+17	1.2426-17 9.5356-18 7.4966-18 6.2446-18 6.2446-18	4.181E-16 3.572E-18 3.955E-18 2.712E-18 2.399E-18 2.399E-18
77	TCNP K	355 451 527 583	624 655 677 693 705	716 724 735 735	743 745 748 751 751	754 757 758 758	192 192 192 192	761 762 762 762 762	762 762 762 763 763	763 763 763 763 763
ноик-	ALT Kh	120 140 150	145 175 180 209 209 209	210 220 230 250 250 250	260 280 300 300	320 340 40 40 40 40 40 40 40 40 40 40 40 40 4	4 4 4 4 20 5 4 4 6 0 5 0 0 0	550 560 600 500 500 500 500 500 500 500	620 640 680 703	720 745 780 890 890

Model 3

Properties of the Upper Atmosphere as Functions

of Height and Local Time for a Level of

Low Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 100 \times 10^{-22}$ W/m² c/s of the solar radiation at a wavelength of 10.7 cm.

M-3-1

	N(A) ZCM3	500E 09 138E 09 941E J8 620E 08	370E 07 576E 07 812E 07 470E 06	063E 06 754E 06 519E 06 472E 05 768E 05 705E 05	544E 05 866E 04 116E 04 965E 04	9016 03 9436 03 9446 03 5216 02 9736 01	N (H) /CM3 156E 04	J 78日 J 78日 0.12日 9.29日 5.4 858日 5.4 789日 5.4	7236 04 5586 04 5956 04 5346 04 1756 04	1186 04 1626 04 1086 04 1086 04 1086 04
	_	00 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	001 001 000 000 00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80000 80000 80000	26 26 26 26 3.	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	5 5 5 5 5 5 5 5 5 7 5 5 5 5 5 7 5 5 5 5 5 5	8 8
odel 3	NCHE VCH3	2.400E 1.8346 1.5218 1.320E	1.1785 1.0686 9.8016 9.0636	8.420E 4.857E 7.354E 6.099E 6.1045	5. 7536 5. 7296 5. 1276 4. 8456	4.1366 3.6856 3.3136 2.9626 2.6866	2.423E 2.167E 1.976E 1.786E 1.786E	1.462E 1.325E 1.21E 1.29E 9.881E	8.971E 8.153E 7.439E 6.739E 6.132E	5.584E 5.087E 4.637E 4.229E 3.859E
Ň	N(0) /CH3	7.630E 13 3.744E 10 2.221E 13 1.461E 13	1.021E 10 7.421E 09 5.531E 09 4.196E 09	2.502E 09 1.956E 09 1.538E 09 1.215E 09 9.641E 08	7.675E 08 6.126E 08 4.903E 08 3.932E 08 3.160E 08	2.0506 08 1.3305 08 8.767E 07 5.770E 07 3.011E 07	2.527E 07 1.680E 07 1.125E 07 7.487E 06 5.018E 06	3.372E 06 2.271E 06 1.534E 06 1.038E 06 1.038E 06 7.744E 35	4.790E 05 3.265E 05 2.230E 05 1.527E 05 1.048E 05	7.234E 04 4.964E 04 3.428E 04 2.372E 04 1.645E 04
	NLDZJ ZCM3	7.5002 10 2.365E 10 9.796E 09 4.706E 09	2.469E 09 1.370E 09 7.887E 08 4.664E 08 2.812E 08		1.6965 07 1.0265 07 6.9355 05 4.5025 06 2.9205 06	1.235E 06 5.2756 05 2.272E 05 9.8606 04 4.3006 04	1.897E 04 8.389E 04 3.731E 03 1.668E 03 7.496E 03	3.3666 J2 1.5376 J2 7.096 J1 3.2126 J1 1.4796 U1	6.8396 JO 3.1786 JO 1.4835 YO 6.9525-J1 3.2735-D1	1.548E-01 7.2516-02 3.506E-02 1.679E-02 8.076E-03
	ní nza Zcma	4.000E 11 1.410E 11 6.334E 10 3.316E 10	1.869E 10 1.108E 10 5.806E 09 4.282E 09 2.743E 09	1.780E 09 1.780E 09 7.731E 00 5.152E 08 3.454E 08	2.327E 00 1.574E 00 1.065E 00 7.203E 07 4.977E 07	2.341E 07 1.111E U7 5.314E 06 2.558E 06 1.238E 06	6.037E J5 2.955E J5 1.453E J5 7.161E D4 3.565E D4	1.777E 64 8.899E 03 4.4755 03 2.260E 63 1.146E 03	5.832E D2 2.981E J2 1.529E J2 7.878E U1 4.073E 01	2.114E J1 '1.102E J1 '1.102E J1 3.7280E Q0 3.023E J0 1.593E J0
805 ⁰ K	MEAN Mol Mt	27.01 26.33 25.70 25.07	223 23 23 22 22 22 22 22 22 22 22 22 22	21.40 20.85 20.32 19.85 19.36	10.94 18.55 18.19 17.87 17.58	17.00 16.66 16.29 15.95 15.60	15.22 14.81 14.32 13.76 13.76	12.36 11.53 9.76 8.88	8.05 7.29 6.63 6.07 5.63	5.21 4.90 4.41 4.31
T (4) =	SCALE HT KH	11.2 15.5 18.7 21.4	23.6 25.5 28.9 28.9	31.8 37.0 37.0 37.0	98. 98. 14. 10. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	0 * * 0 * * * * * * * * * * * * * * * *	51.4 53.4 55.4 58.0 61.3	65.4 70.5 84.3 93.2	103.5 114.8 127.1 139.7 152.3	164.4 175.8 186.1 195.3 203.3
1184 ⁰ K	PRESSURE DYNE/CH2	2.7225-02 1.2545-02 7.2115-03 4.3895-03	2.8085~03 1.8695-03 1.2805-03 8.9595-04 6.3916-04	4.633E-04 3.405E-04 2.535E-04 1.907E-04 1.907E-04	1.1116-04 8.5055-05 6.6005-05 5.2306-05 4.1195-05	2.592E-05 1.658E-05 1.077E-05 7.077E-05	3.1775-06 2.1675-06 1.4995-06 1.6535-06 1.0535-06	5.486E-07 4.085E-07 3.112E-67 2.426E-07 1.936E-07	1.579E-07 1.314E-U7 1.114E-07 9.586E-08 8.358E-08	7.367E-98 6.559E-08 5.8659E-08 5.281E-08 4.777E-08
T(14) =	DENS I TY GM/CM3	2.490E-11 8.882E-12 4.105E-12 2.191E-12	1.276E-12 7.878E-13 5.666E-13 3.369E-13 2.285E-13	1.5066-13 1.1216-13 0.0446-14 5.0546+14 4.3146-14	3.2156-14 2.4216-14 1.8406-14 1.4106-14 1.6106-14	6.626E-15 4.121E-15 2.613E-15 1.676E-15 1.090E-15	7.165E-16 4.756E-16 3.176E-16 2.142E-16 2.142E-16	1. J02E-16 6. 959E-17 4. 897E-17 3. 496E-17 2. 537E-17	1.8755-17 1.4145-17 1.5945-17 8.5785-18 6.8995-18	5.664E-18 4.736E-18 4.03.E-18 3.477E-18 3.137E-18
0	TEMP K	355 461 543 603	6%7 683 705 724 742	752 762 777 777 782	787 797 797 797	803 806 808 811 811	812 812 813 813 814	814 814 815 815 815 815	815 815 815 815 815	815 816 816 816 815
HOUR.	ALT Kh	12) 130 140 150	160 170 181 190 202	210 230 230 250 250	260 280 290	820 840 860 800 800 800 800 800	440 440 500 500	540 540 580 600	620 640 680 703	72.) 74.0 76.0 80.0 80.0

N-3-2

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	N(A) /CH3	6-500F 0		3.937E 0		r.135E.U	1955.5 1955.5 1955.5	1.6000E U	• 522E U					• • • • • • • • • • • • • • • • • • •		0 3662.1			3358 0		• • 72E U	• 518E U	0 1117 0			1014			.150E C4		•071E 04	50 UCCC		.779E 04	.711E 34	-646F 04	582F	5216 24	-461E J4		403E 04	•347E J4	.292E 04	.239E 04	.188E 34
	N(HE) /CA3	2-400E UT	1-846E u7	1.537E U7 1.336E U7		1.192E 07	1.0805 01	9-114F UD	8.449E U6	10 3C 3C		1. 242E UG	6.445F 0A	6.055E U6		2.040E U0		4.774F DA	4-509E U6		4.029E 00	3.600E UO	2. 20.85 US	2.615E 06 6		2.354E 05	2.121E U6	1.7266 46	1.5596 06 3		I.409E 06 3	2 00 3412+T	1.044F 0A 2	9.463E 05 2	8.579E 05 2	7.7836 05 2	7-064F U5 2	6.415F5 2	5.8306 05 2	•	5.30JE 05 2	4.822E U5 2	4.389E J5 2	3.997E J5 2	3•642E J5 2
Mođ	/CH3	7-600E 10	3.7796 10	2.248E 10 1.476E 10		1.JZ/E 10	1 * * 7 × E 00	4.117E 09	3.136E 09	2-4135 AD	1. R726 00	1.461F 00	1.147F 09	9.038E 08		6121C 00	4.510F 08	3.606E 08	2.8845 00			1.2005 07 7 0055 07	5.000F 07	3.344E 07		2.2035 01	1.454E UT	4.0335 UO 6.3985 NG	4.261E 06		1 0155 06	1.270F 06	8.631E 05	5.800E 05	3.921E 05	2.656E 05	1.834E 05	1.228E 05	8.374E 04		5.725E 04	3.922E 04	2.0935 04	1.8535 U4	L. 2/85 04
•	N(02) /CM3	7.5305 10	2-301E 10	9-028E 09			7-4866 AD	4.354E 08	2.584E 08	1 SERF OR	9.507F DT	· 5.263F 07	3.647E 07	2.2856 07	1 4616 07	10 314 10 00	S.RISE OK	3.718E 06	Z-386E 06	0 03EC 3E	4 1725 05	CO 201741	7-5745 04	3.263E 04	1 2101 21		0-100E 03	1.199E J3	5-322E 02	CC 3765 6	1.0446.00	4-795F 01	2.171E 01	9.873E 00	4-512E 00	2.071E 00	9.553E-01	4.4266-01	2.060E-01		9.627E-J2	4.519E-JZ	Z. 1516-02	1.0040-02 20-020-02	4.148c-05
-	N(N2) /CM3	4.000E 11	1.420E 11	6.419E 10 3.339E 10	1 8435 10	1-070F 10	6-5275 00	4.047E 09	2.556E 39	1-6375 09	1-0615 09	6.936E 03	4.571E 08	3.0325 .18	. 00 JECA C		9-1205 07	6.1675 07	4.101E 07	1 0305 17	9.070E 06	4.28AF 26	2.0345 06	9.731E US	6 2005 AC	7.000E 03	1.1036 05	5.390E 04	Z.646E 04	1.3355 04	6.464F 53	3.216E 03	1.606E U3	8.U59E 02	4.060E 02	2.053E u2	L-043E 02	5.315E J1	2.720E U1		1.398E 01	7.208E UU		1 4116 00	00 3772-T
					.								•						1																•										
805 ⁰ K	MOL WT	27.01	26.33	25.68 25.04	01.30	23.74	23-10	22.47	21.85	21.25	20.68	20.15	19.65	19.19	18 77	18.39	18-04	17.73	17.44	16.96	16-54	16.18	15.84	15.48	15.08	14.43	14.11	13.50	12.79	12.00	11.13	10.22	9.31	8.44	7.63	6.91	6.29	5.77	5.35		10.0	* *	76.7		4 4 F
T(4) = 805 ^o K	SCALE MEAN: HT KM MOL NT	11.2 27.01	15.3 26.33	18.3 25.68 20.8 25.04	22.0 24.30	24-8 23-74	26-5 23-10	28.1 22.47	29.7 21.85	31.2 21.25	32.6 20.68	33.9 20.15	35.3 19.65	36.5 19.19	77.91 7.75	38-8 18-39	39.9 18.04	40.9 IT.T3	41.8 17.44	43.5 16.96	45-1 16-54	46.5 16.18	47.9 15.84	49.4 15.48	51 1 15.08		55.3 14.11	58.2 13.50	61.8 12.79	66.3 12.00	71.9 11.13	78.8 10.22	87.0 9.31	96.6 8.44	107.5 7.63	119.3 6.91	131.8 6.29	144.5 5.77	156.8 5.35				76 7 1 101	206-5 206-5	100 T 701/1
1184 ^O K T(4) = 805 ^O K	PRESSURE SCALE MEAN DYNE/CM2 HT KM MOL WT	2.722E-02 11.2 27.01	1.288E-02 15.3 26.33	/•1086-03 18.3 25.68 4.2676-03 20.8 25.04	2.703F-03 22.0 24.30	1.7786-03 24.8 23.74	1.2046-03 26.5 23.10	8.354E-04 28.1 22.47	5.911E-04 29.7 21.85	4.254E-04 31.2 21.25	3.108E-04 32.6 20.68	2.301E-04 33.9 20.15	1.724E-04 35.3 19.65	1.305E-04 36.5 19.19	9.965E-05 37.7 18 77	7.6746-05 38.8 18.39	5.953E-05 39.9 18.04	4-648E-05 040-9-17-73	3.650E-05 41.8 17.44	2.285E-05 41.5 16.66	1.455E-05 45.1 16.54	9.403E-06 46.5 16.18	6.156E-06 47.9 15.84	4.080E-06 49.4 15.48	2-745F-06 51.1 15.08	1.869F-06 53.0 14.43	1.291E-06 55.3 14.11	9.0766-07 58.2 13.50	6.500E-07 61.8 12.79	4.755E-07 66.3 12.00	3.5586-07 71.9 11.13	2.727E-07 78.8 10.22	2.142E-07 87.0 9.31	1.722E-07 96.6 8.44	1.4156-07 137.5 7.63	I.IU6E-07 119.3 6.91	1.011E-07 131.8 6.29	8.748E-08 144.5 5.77 5	7.660E-08 156.8 5.35				4.884F-08 107.1 2 24	4.4216-08 234.5 4.22	
T(14) = 1184 ^O K T(4) = 805 ^O K	DENSITY PRESSURE SCALE MEAN GH/CM3 DYNE/CM2 HT KM MOL WT	2.491E-11 2.722E-02 11.2 27.01	8-949E-12 1-288E-02 15-3 26-33	*+13JE-12 /*108E-03 18,3 25,68 2+194E-12 4+267E-03 20,8 25,04	1.263E-12 2.703E-03 22.90 24.30	7.708E-13 1.778E-03 24.8 23.74	4.899E-13 1.204E-03 26.5 23.10	3.2136-13 8.3546-04 28.1 22.47	2.162E-13 5.911E-04 29.7 21.85	1.487E-13 4.254E-04 31.2 21.25	1.042E-13 3.108E-04 32.6 20.68	7.427E-14 2.301E-04 33.9 20.15	5.371E-14 1.724E-04 35.3 19.65	3.937E-14 1.305E-04 36.5 19.19	2.921E-14 9.965E-05 37.7 18 77	2.191E-14 7.674E-05 38.8 18.39	L.659E-14 5.953E-05 39.9 18.04	1.268E-14. 4.648E-05 240.9 17.73	9.763E-15 3.650E-05 41.8 17.44	5.906E-15 2.285E-05 43.5 16.96	3.655E-15 1.455E-05 45.1 16.54	2.303E-15 9.403E-06 46.5 16.18	1.472E-15 6.156E-06 47.9 15.84	9.525E-16 4.080E-06 49.4 15.48	6.232E-16 2.745E-06 51.1 15.08	4.113E-16 1.869E-06 53.0 14.43	2.739E-16 1.291E-06 55.3 14.11	1.840E-16 9.076E-07 58.2 13.50	l.248E-16 6.500E-07 61.8 12.79	8.563E-17 4.755E-07 66.3 12.00	5.941E-17 3.558E-07 71.9 11.13	4.181E-17 2.727E-07 78.8 10.22	2.995E-17 2.142E-07 87.0 9.31	2.1776-17 1.7226-07 96.6 8.44	1.6186-17 1.4156-07 137.5 7.63	1.228E-1/ 1.186E-07 119.3 6.91	9.531E-1d 1.011E-07 131.8 6.29	7.567E-18 8.748E-08 144.5 5.77	6.139E-18 7.660E-08 156.8 5.35	5 3036-10 - 4 3746-00 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2.0865-18 6.1955-08 108.5 5.01		3.145F-14 4.884F-08 107 1 2 34	2.795E-18 4.421E-08 274.5 4.23	
2 $T(14) = 1184 ^{O}K$ $T(4) = 805 ^{O}K$	TEMP DENSITY PRESSURE SCALE MEAN K GN/CM3 DYNE/CM2 HT KM MOL WT	355 2.491E-11 2.722E-02 11.2 27.01	456 8.949E-12 1.288E-02 15.3 26.33	236 4.1345-12 4.1085-03 18.3 25.68 587 2.19 ⁴ 5-12 4.2675-03 20.8 25.04	628 1.263E-12 2.703F-03 22.9 24.30	659 7.708E-13 1.778E-03 24.8 23.74	683 4.899E-13 1.204E-03 26.5 23.10	703 3.213E-13 8.354E-04 28.1 22.47	718 2.162E-13 5.911E-04 29.7 21.85	731 1.487E-13 4.254E-04 31.2 21.25	742 1.042E-13 3.108E-04 32.6 20.68	751 7.427E-14 2.301E-04 33.9 20.15	758 5.371E-14 1.724E-04 35.3 19.65	765 3.937E-14 1.305E-04 36.5 19.19	773 2.921E-14 9.965E-05 37.7 18 77	775 2.191E-14 7.674E-05 38.8 18.39	778 1.659E-14 5.953E-05 39.9 18.04	1782 1.268E-14. 4.648E-05 540.9 17.73	785 9.763E-15 3.650E-05 41.8 17.44	789 5.906E-15 2.285E-05 43.5 16.96	792 3.655E-15 1.455E-05 45.1 14.54	795 2.303E-15 9.403E-06 46.5 16.18	795 1.472E-15 6.156E-06 47.9 15.84	798 9.525E-16 4.080E-06 49.4 15.48 .	799 6.232E-16 2.745E-06 51.1 15.08	80) 4.113E-16 1.869E-06 53.0 14.43	800 2.739E-16 1.291E-06 55.3 14.11	801 1.840E-16 9.076E-07 58.2 13.50	831 1.248E-16 6.500E-07 61.8 12.79	802 8.563E-17 4.755E-07 66.3 12.00	802 5.941E-17 3.558E-07 71.9 11.13	802 4.181E-17 2.727E-07 78.8 10.22	802 2.995E-17 2.142E-07 87.0 9.31	802 2.177E-17 1.722E-07 96.6 8.44	802 1.618E-17 1.415E-07 137.5 7.63	003 1.42285-17 1.1865-07 119.3 6.91	803 9.531E-10 1.011E-07 131.8 6.29	803 7.567E-18 8.748E-08 144.5 5.77	8U3 6.139E-18 7.660E-08 156.8 5.35	803 6 3036-10 4 3776-01 300 6 4 803	001 1*002010 0*1/40-00 100*2 2*01 803 7*2866-18 7 0306-06 170 2 2*01		803 3.1H5F-1H 4.884F-0A 107 1 2 34	803 2.795E-16 4.421E-08 274.5 4 23	
HDUR= 2 T(14) = 1184 ^O K T(4) = 805 ^O K	ALT TEMP DENSITY PRESSURE SCALE MEAN: KH K GH/CH3 DYNE/CH2 HT KH MOL WT	123 355 2.4916-11 2.7226-02 11.2 27.01	134 456 8.9496-12 1.2886-02 15.3 26.33 140 53 2.13513 2.563	170 597 7.19/E-12 7.108E-03 18.3 25.68 150 587 2.19/E-12 4.267E-03 20.8 25.04	160 628 1.263E-12 2.703E-03 22.0 24 30	170 659 7.708E-13 1.778E-03 24.8 23.74	180 683 4.899E-13 1.204E-03 26.5 23.10	190 703 3.213E-13 8.354E-04 28.1 22.47	400 718 2.162E-13 5.911E-04 29.7 21.85	210 731 1.487E-13 4.254E-04 31.2 21.25	220 742 1.042E-13 3.108E-04 32.6 20.68	230 751 7.427E-14 2.301E-04 33.9 20.15	240 758 5.371E-14 1.724E-04 35.3 19.65	250 765 3.937E-14 1.305E-04 36.5 19.19	260 773 2.921E-14 9.965E-05 37.7 18 77	270 775 2.191E-14 7.674E-05 38.8 18.39	280 778 1.6596-14 5.953E-05 39.9 18.04	290. 34782 268E-14 4. 4.649E-05 240.9 17.73	300 785 9.763E-15 3.650E-05 41.8 17.44	320 789 5.906E-15 2.285E-05 43.5 16.96	340 792 3.655E-15 1.455E-05 45.1 16.54	360 795 2.303E-15 9.403E-06 46.5 16.18	380 795 1.472E-15 6.156E-06 47.9 15.84	400 798 9.525E-16 4.080E-06 49.4 15.48	420 799 6.232E-16 2.745E-06 51.1 15.08	44) 80) 4.113E-16 1.869E-06 53.0 14.43	460 800 2.739E-16 1.291E-06 55.3 14.11	480 801 1.840E-16 9.076E-07 58.2 13.50	500 831 1.248E-16 6.500E-07 61.8 12.79	520 802 8.563E+17 4.755E+07 66.3 12.00	540 802 5.941E-17 3.558E-07 71.9 11.13	56J 802 4.181E-17 2.727E-07 78.8 10.22	580 802 2.995E-17 2.142E-07 87.0 9.31	600 802 2.177E-17 1.722E-07 96.6 8.44	620 802 1.618E-17 1.415E-07 107.5 7.63	040 000 1.2285-17 1.1865-07 119.3 6.91	060 803 9.531E-14 1.011E-07 131.8 6.29	083 803 7.567E-18 8.748E-08 144.5 5.77	700 803 6.139E-18 7.660E-08 156.8 5.35	720 803 6 3036-10 - 4 3366-00 110 C	10°C 20°C 10°C 0°C 14°C 10°C 20°C 20°C 20°C 20°C 20°C 20°C 20°C 2	76.0 803 3.6605-18 0.0375-00 117-6 4.14 76.0 803 3.6605-18 6.4175-60 100 7 7 52	780 803 3.145F-14 4.884F-08 107.1 2 34	800 803 2,795E-16 4,421F-08 274.5 4 23	

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	N (A) V (A)	4.5006 09 1.1496 U9 3.9246 J8 1.5696 08	6.898E 07 3.226E U7 1.576E 07 7.952E 06 4.116E 06	2.174E 06 1.167E 06 6.353E 05 3.499E 05 1.945E 05	1.091E 05 6.163E 04 3.503E 04 2.003E 04 1.151E 04	3.8466 03 1.3056 03 4.4796 02 1.5546 02 5.4436 01	и (н) /СМЗ 3.135E 04	3.056E 04 2.980E 04 2.906E 04 2.835E 04 2.766E 04	2.699E 34 2.634E 04 2.571E 04 2.510E 44 2.510E 44 2.451E 94	2.333E 04 2.337E 04 2.2835E 04 2.230E 04 2.179E 04
Model 3	NCHE) /CM3	2.400E J7 1.059E D7 1.551E U7 1.349E U7	1.2015 07 1.0865 07 9.9165 06 9.1235 06 8.4345 06	7.832E 06 7.298E 06 6.819E 06 6.386E 06 5.992E 06	5.631E 06 5.300E 06 4.993E 06 4.445E 06 4.445E 06	3.973E 06 3.553E 06 3.187E 06 2.862E 06 2.574E 06 2.317E 06	2.0886 06 1.8846 06 1.7006 06 1.5366 06	1.388E J6 1.256E J6 1.137E V6 1.033E V6 9.33JE V5	8.46JE u5 7.676E u5 6.969E ŭ5 6.331E u5 5.754E u5	5.232E U5 4.761E J5 4.334E J5 3.948E J5 3.598E U5
	N(0) /CH3	7.600E 10 3.816E 10 2.272E 10 1.486E 10	1.027E 10 7.352E 09 5.393E 09 4.027E 09 3.048E 09	2.332E 09 1.800E 09 1.399E 09 1.094E 09 8.597E 08	6.785E 08 5.375E 08 4.272E 08 3.434E 08 2.719E 08	1.7746E 08 1.129E 08 7.342E 07 4.797E 07 3.147E 07 2.073E 07	1.370E 07 9.379E 06 6.035E 06 4.322E 36	2.688E 06 1.851E 06 1.210E 05 8.146E 05 5.498E 05	3.719E 05 2.522E 05 1.714E J5 1.168E 05 7.971E 04	5.454E 04 3.740E 04 2.570E 04 1.770E 04 1.221E 04
	N(02) /CM3	7.500E 10 2.397E 10 9.842E 09 4.633E U9	2.3666 09 1.2746 09 7.1246 08 4.0946 08 2.4046 08	1.436E 08 8.694E 07 5.326E 07 3.294E U7 2.055E 07	1.291E 07 8.155E 06 5.181E 06 3.307E 06 2.119E 06	8.797E 05 3.696E 05 1.568E 05 1.568E 05 6.712E 04 2.895E 04 1.258E 04	5.499E 03 2.418E 03 1.069E 03 4.752E 02	2.123E 02 9.534E 01 4.303E 01 1.951E 01 8.890E 00	4.070E 00 1.871E 00 8.646E-01 4.012E-01 1.870E-01	8.756E-J2 4.117E-02 1.944E-U2 9.221E-03 4.392E-03
	N (N2) /CH3	4.000E 11 1.430E 11 6.442E 10 3.291E 10	1.8126 13, 1.0486 10 6.2666 09 3.8436 09 2.4046 09	1.527E 09 9.820E 08 6.383E 08 4.185E 08 2.765E 08	1.838E 08 1.229E J8 8.253E J7 5.557E U7 3.768E 07	1.744E 07 8.1555 06 3.848E 06 1.830E 06 8.759E 05 4.222E 05	2.3968 U4 9.9588 U4 4.8738 04 2.3968 J4	1.183E 04 5.869E 03 2.924E 03 2.463E 03 1.463E 03 7.350E 02	3.738E 02 1.878E 02 9.551E J1 4.876E U1 2.499E J1	1.2866 J1 6.6426 JU 5.443E JU 3.443E UU 1.792E UU 9.359E1
во5 ^о к	HEAN HOL WT	27.01 26.32 25.66 25.00	24.34 23.68 23.02 22.37 21.74	21.14 20.57 20.03 19.08 19.08	18.67 18.29 17.95 17.65 17.37	16.89 16.49 16.13 15.43 15.43	14.56 14.03 13.41 12.69	11.88 11.01 10.13 9.19 8.32	7.53 6.82 6.22 5.71 5.33	4.97 4.71 4.53 4.21
T (4) =	SCALE HT KH	11.2 15.1 18.0 20.4	22.5 24.3 26.1 26.1 29.4	30.9 32.4 33.8 33.8 4.5 8 5.5 8 8 5.5 8 9 8 5.5 8 8 7 8 7 8 7 8 7 8 8 7 8 7 8 7 8 7 8	37.7 38.9 40.0 41.0	4 4 4 4 4 4 4 4 4 4 5 4 4 4 5 4 4 4 5 4 4 4 5 4 4 4 5 4 5 4 5 4 5 4 5 7 4 5 7 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	67.1 72.9 79.9 888.3 98.1	109.1 121.1 133.7 146.3 158.6	170.1 180.7 190.1 190.1 198.4
T(11) = 1184 ^o k	PRESSURE DYNE/CH2	2.7226-02 1.2826-02 7.0066-03 4.1626-03	2.6116-03 1.7036-03 1.1466-03 7.9026-04 5.5686-04	3.996E-04 2.913E-04 2.154E-04 1.612E-04 1.223E-04	9.317E-05 7.176E-05 5.569E-05 4.350E-05 3.418E-05	2.143E-05 1.367E-05 8.848E-06 5.803E-06 3.854E-06 3.854E-06	2-220E-00 1.773E-06 1.228E-06 8.657E-07 6.220E-07	4.566E-07 3.429E-07 2.638E-07 2.079E-07 1.677E-07	1.382E-07 1.162E-07 9.926E-08 8.605E-08 7.547E-08	6.682E-J8 5.963E-J8 5.353E-08 4.837E-08 4.375E-08
	DENSITY GH/CM3	2.4906-11 9.0166-12 4.1486-12 2.1826+12	1.2466-12 7.5246-12 4.7365-13 3.0805-13 2.0586-13	1.408E-13 9.821E-14 6.975E-14 5.033E-14 3.683E-14	2.730E-14 2.046E-14 1.549E-14 1.184E-14 1.184E-14 9.117E-15	5.5226-15 3.4216-15 2.1506-15 1.3026-15 1.3026-15 8.9526-10	5.0035-10 3.8755-16 2.5845-16 1.7395-16 1.1825-16	8.123E-17 5.65UE-17 3.987E-17 2.859E-17 2.088E-17 2.088E-17	1.556E-17 1.185E-17 9.23 E-18 7.551E-18 5.982E-18	4.965E-18 4.195E-18 3.600E+18 3.130E+18 3.130E-18 2.751E-18
4	TEMP K	355 450 521 524	613 645 693 707	722 734 753 753	766 772 776 785 783	793 795 795 797	801 801 803 803	803 804 804 804 804	804 804 805 805 805	805 805 805 805
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805 ⁰ K	KEAN Mol HT	27.01 26.32 25.65	25.02	23.01	23.24	22.17	21.60	21.21	20+10	19.95	10.50	19-24	19.62	10.34	17.85	17.42	17.05	16.45	16.16	15.89	15.63	15.05	14.73	14.37	13.97	13.02	07 61	00-21	11.29	10.66	10.01	9.37	8.75	8.10 7.6U	1.04
# 805 ⁰ K	NEAN Mol ht	27.01 26.32 25.66	20.02	23.01	23.24	22.17	21.60	21.21	21-12	19-95	10.50	19.24	19-62	10.34	17.65	17.42	17.05	16.45	16.16	15.59	10.60 1.50 1.50	15.05	14.73	14.37	13-97	13.02	87 61	10.11	11.29	10.66	10.01	9.37	8.75	1.60	1.04
1) = 805 ⁰ K	LE NEAN Kn mol ht	• 2 21•01 • 0 26•32 1• 2 25•65	20.22	23001	0.2 23.24		7.7 21.60	2.9 21.21	21•02 01•10 21•10 10	5.7 19.05	7.6 10.50	0.0 19.24	0.5 18.92 . 0 19.42	3.2 10.34	5.7 17.65	7.8 17.42	9.0 17.05	3.2 16.46	4.9 16.16	6.4 15.89	0.0 15.63 0.1 15.53	1.6 15.05	3.6 14.73	6.U 14.37	0.6 13.97	5.3 13.02	07 61 7 0	00-11 0.V	0.2 11.29	6.3 10.66	4.3 10.01	2.9 9.37	2.4 8.75	2.9 8.15 6.2 7.6U	6.2 7.04
$T(4) = 805 \frac{0}{K}$	SCALE NEAN HT KM MOL NT	.11.2 27.01 19.0 20.32 19.2 25.66	21.3 25.02	2900 23001 27.4 23.01	30.2 23.24	35.3 22.17	37.7 21.60	39.9 21.21	41°9 20°10 42°4 J0°36	45.7 19.95	47.6 10.50	49.0 19.24	50.5 18.92 41 0 19.40	53.2 10.34	55.7 17.65	57.8 17.42	50.0 17.05	63.2 16.46	64.9 16.16	66.4 15.89	68.0 15.63 40 7 14 35	40-51 9-11	73.6 14.73	76.0 14.37	79.6 13.97	85.3 13.02	87 61 7 08		100.2 11.29	106.3 10.66	114.3 10.01	122.9 9.37	132.4 8.75	145.9 8.15 142.2 7.6U	166.2 7.04
T(4) = 805 ⁰ K	SCALE MEAN HT KM MOL HF	.11.2 27.01 15.0 26.32 19.2 25.66	21.3 25.02	27.4 23.01	30.2 23.24	35.3 22.17	37.7 21.60	39.9 21.21	41°4 20°10	49.7 19.95	67.6 10.50	49.0 19.24	50.5 18.92 41 0 19 62	53.2 10.34	1 55.7 17.65	57.8 17.42	59.0 17.05	63.2 16.46	64.9 16.16	66.4 15.89		11.6 15.05	13.6 14.73	5 76.0 14.37	5 78.6 13.97	7 85.3 13.02	07 61 7 00		7 100.2 11.29	7 106.3 10.66	7 114.3 10.01	7 122.9 9.37	7 132.4 8.75	7 142.9 8.15 7 144.2 7.6U	7 166.2 7.04
T(4) = 805 °K	JRE SCALE MEAN CM2 HT KM MOL HT	-02 11.2 21.01 -02 15.0 26.32 -03 19.2 25.65	-03 21.3 25.02		-03 30.2 23.24	-04 35.3 22.17	-04 37.7 21.60	-04 39.9 21.21	-04 41+4 20+70 -06 43-8 20-35	-04 45°7 19•05	-06 67.6 10.50	-04 49.0 19.24	-04 50.5 18.92	-05 53.2 10.34	-05 55.7 17.65	-05 57.8 17.42	-05 59.0 17.05	-05 63.2 16.46	-06 64.9 16.16	-06 66.4 15.89		-06 71.6 15.05	-06 73.6 14.73	-06 76.0 14.37	-06 78-6 13-97	-01 85.3 13.02	87 E1 7 C0 XV			-07 106.8 10.66	-07 114.3 10.01	07 122-9 9-37	-07 132.4 8.75		-07 166.2 7.09
3 K T(4) = 805 3 K	ESURE SCALE MEAN Le/Crie HT Km mgl ht	126-02 .11.2 27.01 106-02 15.0 26.32 246-03 14.2 25.64	136-03 21.3 25.02	198-03 24.4 24.40 578-03 27.4 23.01		996-04 35.3 22.17	01E-04 37.7 21.60	556-06 39-9 21-21	52E=04 41+9 20+10 82E=04 42-8 30-35		446-06 67.6 10.58	34E-04 49.0 19.24		306-05 53.2 10-34	156-05 55.7 17.85	66E-05 57.8 17.42		62E-09 63.2 16.45	69E-06 64.9 16.16	51E-06 66.4 15.89	60 E=06 68.0 15.63 strint to 1 15.35	776-06 71.6 15.05	365-06 73.6 14.73	UBE-06 76.0 14.37	00E-06 78-6 13-97	/5E-U0 81.1 13.72 62E-01 85.3 13.02			196-07 100-2 11-29	336-07 106.8 10.66	32E-07 114.3 10.01	61E-07 122.9 9.37	89E-07 132.4 8.75	936-07 142.9 8.15 ****-07 144.2 7.60	60E-07 166.2 7.09
$4^{\rm Q}$ R T (4) = 805 $^{\rm Q}$ K	PRESSURE SCALE MEAN UVNE/CM2 HT KM MOL HT	• 7725-02 • 11.2 27.01 • 2005-02 • 19.0 26.32 • 9905-03 • 19.2 25.65	2136-03 21.3 25.02	(*1145-03 24.4 24.40 .Adve=03 27.4 23.01			.301E-04 37.7 21.60	1.1656-04 39-9 21-21)•202E=04 41•9 20•70 • 502E=04 42•8 20•35		. 4646-04 67.6 10.58	- 354E-04 49.0 19.24	[.1078~04 50.5 18.92 		5.2196-09 55.7 17.65	3.6666-05 57.8 17.42	2.610E-05 59.0 17.05	1.362E-09 63.2 16.44	3.969E-06 64.9 16.16	7.3516-06 66.4 15.89	5.460E=06 68.0 15.53 	3.0776-06 71.6 15.05	2.3366-06 73.6 14.73	1.7006-06 76.0 14.37	1.3006-06 70.6 13.97	L.0/2E-U0 8L.1 L3.32 B.662E-07 85.3 L3.02			5.4156-07 100.2 11.29	3.6336-07 106.8 10.66	3.032E-07 114.3 10.01	2.5616-07 122.9 9.37	2.189E-07 132.4 8.75	1.4446-07 142.9 8.15 1.4446-07 144.2 7.60	1.460E-07 166.2 7.09
1164 ^Q K T(4) = 805 ^Q K	PRESSURE SCALE MEAN UVNE/CM2 HT KM MOL HT	2.772E-02 11.2 27.01 1.200E-02 19.0 26.32 6.990E-03 19.2 25.64	4.2136-03 21.9 25.02	2+7195=03 24+4 24+40 1_A675=03 27_6 23_61	L. 3056-03 30.2 23.24	7.0006-04 35.3 22.87	5.301E-04 37.7 21.60	4.1656-06 39-9 21-21	3,202E=04 41,49 20,10 3.601E=04 42,4 30,35	2.0066-04 49.7 19.93	1.4645-04 67.6 10.58	1.3546-04 49.0 10.24	1.1078-04 50.5 18.92 0.1008-06 61 0 19.62	7.5306-05 53.2 10.34	5.2156-09 55.7 17.85	3.6666-05 57.8 17.42	2.6105-05 59.0 17.05	1.3028-09 63.2 16.46	9.9695-06 64.9 16.16	7.3516-06 66.4 15.89	5.460E=06 68.0 15.63 	3.0775-06 71.6 15.05	2.3366-06 73.6 14.73	1.7006-06 76.0 14.37	1.3006-06 70.6 13.97	8.662E-00 81.1 13.02			4.409E-07 100.2 11.29	3.6335-07 106.8 10.66	3.032E-07 114.3 10.01	2.561E-07 122.9 9.37	2.189E-07 132.4 8.75	1.8936-07 142.9 8.15 1.4446-07 144.2 7.60	1.460E-07 166.2 7.09
= 1164° K T(4) = 805° K	TY PRESSURE SCALE MEAN 3 UVNE/CM2 HT KM MOL HT	11 2.7226-02 11.2 27.01 14 1.2806-02 15.0 26.32 12 6.9946-03 19.2 25.65	12 4.2136-03 21.5 25.02	LZ Zorlycous Zoot Zootu 14 1.8676-03 27.4 Z3.61	14 1.3056-03 30.2 23.26	13 7.0006-04 35.3 22.87 13 7.0006-04 35.3 22.87	13 5.301E-04 37.7 21.60	13 4.1656-04 39.9 21.21	14 3.262E=04 41.4 20+70 14 3.662E=04 42.4 30.35	14 2.0066-04 49.7 19.95	1 1 4660-06 67.6 10.58	14 1.3546-04 49.0 19.24	14 1.1076-04 50.5 18.92		14 5.215E-09 55.7 17.85	15 3.6665-05 57.8 17.42		15 1.9628-09 63.2 16.46	15 0.9695-06 64.9 16.16	15 7.3516-06 66.4 15.89	-16 5.460E=06 68.0 15.63 · · · · · · · · · · · · · · · · · · ·	-10 3.077E-06 71.6 15.05	16 2.3366-06 73.6 14.73	16 1.7006-06 76.0 14.37	16 1.3006-06 70.6 13.97	-16 L.0/35=00 81.7 L3.32 -16 8.6625=07 85.3 L3.02			-17 4.409E-07 100.2 11.29	-17 3.6336-07 106.8 10.66	-17 3.032E-07 114.3 10.01	-17 2.561E-07 122-9 9.37	-17 2.189E-07 132.4 8.75	-17 1.8936-07 142.9 8.15 -17 1.4446-07 144.2 7.60	-17 1.4606-07 166.2 7.09
$14) = 1164 {}^{\alpha}K \qquad T(4) = 805 {}^{\alpha}K$	4511Y PRESSURE SCALE MEAN /CH3 UVNE/CM2 HT KM MOL HT	16-11 2.7226-02 .11.2 27.01 16-11 1.2006-02 19.0 20.32 16-12 0.9906-03 19.2 25.66	10-12 4.2136-03 21-3 25-02	06= 2 2+146=03 24+4 24+40 76=14 1-8476=03 27-4 23-01	26-13 1,3056-03 30.2 23-26	JE-13 7.9045-04 35.3 22.17	18-13 5.3016-04 37.7 21.60	[e-13 4.165e-06 39.9 21.21	5[=[4 3.252[=04 41.9 20-75 scart 2 sate=04 42.4 20.35		06-14 1.4440-04 67.6 10.50	7E-14 1.354E-04 49.0 19.24	06+14 1.1076+04 50.5 18.92 55 55 55 55 55 55 55 55 55 55 55 55 55	36-14 7.5306-05 53-2 10-34	85-14 5.2156-09 55.7 17.8 5	96-15 3.6666-05 57.8 17.42	26-15 2.6106-05 59.0 17.05	36-15 1.3626-03 63.2 16.46	26-15 9.9696-06 64.9 16.16	0E-15 7.351E-06 66.4 15.89	35-16 5.4605-06 68.0 15.63 25.1 2 2005-04 60.1 15.55	2E-16 3.077E-06 71.6 15.05	HE-16 2.336E-06 73.6 14.73	66-16 1.7006-06 76.0 14.37	UE-16 1.300E-06 70.6 13.97	UE-10 1.015E-00 81.1 13.32 15-16 8.662E-07 85.3 13.02			Hemit 2.4126-07 100.2 11.29	26-17 3.6336-07 106.8 10.66	3E-17 3.032E-07 114.3 10.01	5F-17 2.561E-07 122.9 9.37	126-17 2.189E-07 132.4 8.75	146-17 1.8936-07 142.9 8.15 226-17 1.4446-07 144.2 7.60	16E-17 1.460E-07 166.2 7.09
T (14) = 1164 ^Q K T(4) = 805 ^Q K	URNSTTY PRESSURE SCALE MEAN GH/GH3 UYNE/CH2 HT KM MQL HT	4905-11 2.7225-02 11.2 27.01 0425-12 1.2005-02 15.0 26.32 1006-12 6.9985-03 19.2 25.64	1136-12 4.2136-03 21.3 25.02	.1996-12 2.1906-03 24.4 24.40 vereix 1.8476-03 27.6 23.01	662E-13 1.305E-03 30.2 23.26	1346-13 7.0076-04 35.3 22.87	.5568-13 5.3916-04 37.7 21.60	1416-13 4.1656-06 39.9 21.21	.5255=14 3.2525=03 41.9 20.70 .2555=14 3.2525=03 41.9 20.35		0006-14 1.4666-04 67.6 10.50	0578-14 1.3548-04 49.0 19.24	.4405-14 1.1076-04 50.5 18.92		.0446-14 5.2156-09 55.7 17.65	1796-15 3.6666-05 57.8 17.42	9726-15 2.6106-05 59.0 17.05	• ¢\35=15 1.9625=09 63.2 16.46	. 7026-15 0.9696-06 64.9 16.16	290E-15 7.351E-06 66.4 15.89	-4135-16 5.4606-06 68.0 15.63 		. THHE-16 2.336E-06 73.6 14.73	.0266-16 1.7086-06 76.0 14.37	.120E-16 1.300E-06 70.6 13.97	• 5986-10 1.0755-40 31.7 13.35 • 2115-14 8.6626-07 85.3 13.02			. UB3E=17 3.413E=01 74.5 11.29 . 4646=17 4.409E=07 100.2 11.29	.252E-17 3.633E-07 106.8 10.66	.333E-17 3.032E-07 114.3 10.01	.635F-17 2.561E-07 122.9 9.37	.1026-17 2.1896-07 132.4 8.75	<pre>& 61346-17 1.8936-07 142.9 8.15</pre>	.1346-17 1.4646-07 166.2 7.09
$r(14) = 1164^{-0}K$ $r(4) = 805^{-0}K$	URNSTTY PRESSURE SCALE MEAN Gh/GH3 UVNE/CM2 HT KM MOL HT	2,400E-11 2,722E-02 .11.2 27.01 9.042E-12 1.200E-02 19.0 20.32 4.100E-12 6.998E-03 19.2 25.64	2.1136-12 4.2136-03 21.3 25.02	【●】9966=↓2 2●7196=03 2●●● 2●●● 2●● ● 2676=14 1_8676=03 27_6 23_61	4.662E=13 1.305E=03 30.2 23.26	3.1306-13 Y.5046-04 32.7 22.07 2.1776-13 7.0096-04 35.3 22.17	1.55AE-13 5.301E-04 37.7 21.60	L. 1416-13 4. 1656-04 39-9 21-21	8.52555-14 3.2525-04 41.4 20+70 4.4855514 3.5525-04 42.4 20-35	6.4000E-14 2.006E-04 49.7 19.95	1 0006-14 1 4646-04 67.6 10.53	3.057E-14 1.354E-04 49.0 19.24	2.4495-14 1.1075-04 50.5 18.92	1.45036-14 7.5206-05 53.2 10.34	1.058F-14 5.215E-09 55.7 17.85	7.1796-15 3.6666-05 57.8 17.42	4,9726-15 2,6106-05 59.0 17.05	2.4035-15 1.5625-05 63.2 16.46	1.7626-15 9.9696-06 64.9 16.16	1.2006-15 7.3516-06 66.4 15.89	9.4135-16 5.4606-06 68.0 15.63	5.102E-16 3.077E-06 71.6 15.05	1.74HF-16 2.336E-06 73.6 14.73	2.0266-16 1.7006-06 76.0 14.37	2.120E-16 1.300E-06 70.6 13-97	1.59986-10 1.0755-00 81.7 1.5.32 1.2115-16 8.6625-07 85.3 13.02			R. KKKF=17 4.409E=07 100.2 11.29	4.2526-17 3.6336-07 106.8 10.66	3.3335-17 3.0326-07 114.3 10.01	2.635F-17 2.561E-07 122.9 9.37	2.1026-17 2.1896-07 132.4 8.75	1.0146-17 1.0336-07 142.9 8.15 1.2306-17 1.4846-07 144.2 7.60	1, 1346-17 1, 4646-07 166.2 7.09
$r(14) = 1164^{-0}K$ $r(4) = 805^{-0}K$	P URNSTTY PRESSURE SCALE MEAN GH/GH1 DYNE/CM2 HT KM MQL HT	8 2.490E-11 2.772E-02 11.2 27.01 8 9.042E-14 1.200E-02 19.0 26.32 7 4.100E-12 6.998E-03 19.2 25.65	2.1136-12 4.2136-03 21.3 25.02	8 1.01996-12 2.01196-03 2409 64090 8 9.0570-14 1.8676-03 27.6 23.81	2 4.6626-14 1.3056-03 30.2 23.26	9 9.1306-13 4.5045-04 32.7 22.07 5 2.1776-13 7.0076-04 35.3 22.17	2 1.5588-13 5.3016-04 37.7 21.60	1 1.1416-13 4.1656-04 39-9 21-21	6 8.5255=14 3.2525=04 41.4 24.10 4 4.4454=14 3.5634=04 43.4 20.35	6 4.900E-14 2.006E-04 49.7 19.95	0 1 0006-14 1 4646-06 67.6 10.50	2 3.0576-14 1.3546-04 49.0 19.24	2 2.440E+14 1.107E+04 50.5 18.92	0 1.5036-14 V.LUNETON JI. V. 2000 0 1.5036-14 7.5506-05 53.2 10-34	0 1.0555-14 5.2156-09 55.7 17.85	9 7.1796-15 3.6666-05 57.8 17.42	7 4,9726-15 2,6106-05 59.0 17.05	1 3.4436-13 1.0476-03 03.2 16.46	1 1.7626-15 9.9696-06 64.9 16.16	10 1.2906-15 7.3516-06 66.4 15.89	3 9.4138-16 5.4608-06 68.0 15.63	12 5.102E-16 3.077E-06 71.6 15-05	01 1.744F-16 2.336E-06 73.6 14.73	3 2.826E-16 1.700E-06 76.0 14.37	24 2.120E-16 1.300E-06 70.6 13-97)4 [.5988=10 [.00/5E=00 81.7 13.34 34 1.2115=14 8.662E=07 85.3 13.02			13 7.003547 3.4096407 7742 11470 45 8.6666417 4.6096407 100.2 11.29	35 4.252E-17 3.633E-07 106.8 10.66	35 3. 3335-17 3.0326-07 114.3 10.01	15 2.635F-17 2.561E-07 122.9 9.37	75 2.1026-17 2.1896-07 132.4 8.75	95 [.60]46-17 [.8936-07 [42.9 8.12 00 1 2706-17 [.4846-07]86.2 7.60	96 1,1346-17 1,4606-07 166.2 7.09
$T = T(14) = 1164 ^{C} K = T(4) = 805 ^{C} K$	TEMP URNSTTY PRESSURE SCALE MEAN K GH/GH1 UVNE/CM2 HT KM MOL HT	556 2,470E-11 2,722E-02 11.2 27.01 446 9,042E-12 1,280E-02 15.0 26.32 527 4,104E-12 6,994E-03 19.2 25.64	400 2.1136-12 4.2136-03 21.3 25.02	6.05 1,1996-12 2,1196-03 29,4 29,40 138 1,1616-14 1,6476-03 27,4 23,61	782 4.6626-15 1.3056-03 30.2 23.26	629 9.1306-13 Y.5046-04 32.7 22.07 661 2.1778-13 7.0076-04 35.3 22.87	902 1.550E-13 5.391E-04 37.7 21.60	931 1.141E-13 4.165E-04 39.9 21.21	956 8.5255-14 3.2525-04 41.4 20.15 01 4 4455-14 3.5525-04 41.4 20.35	906 4.9000-14 2.0066-04 40.7 19-95	1000 1 0006-14 1.4440-04 67.4 10.50	1022 3.067E-14 1.354E-04 49.0 19.24	1032 2.4496+14 1.1076+04 50.5 18-92	1040 1.5036-14 7.5306-05 53.2 10.34	1062 1.0585-14 5.2156-09 55.7 17.85	1072 7.1796-15 3.6666-05 57.8 17.42	1077 4,9726-15 2,6106-05 59,0 17,05	1001 3.4436-19 1.4476-09 02.0 40.19 1005 2.4036-15 1.3626-09 63.2 16.44	1007 1.7626-15 0.9696-06 64.9 16.16	1089 1.200E-15 7.351E-06 66.4 15.89	1003 9.4136-16 5.4606-06 68.0 15.63	1092 5.102E-16 3.077E-06 71.6 15.05	1001 1.788F-16 2.336E-06 73.6 14.73	1093 2.0266-16 1.7006-06 76.0 14.37	1094 2.120E-16 1.300E-06 70.6 13.97	1094 1.5985-16 1.0755-00 81.7 13.32 1096 1.2115-16 8.6625-07 85.3 13.02			1045 /.00384// 0.4126-0/ 74.2 11.70 //dk 8.4646-/7 4.4096-07 100.2 11.29	11195 4.252E-17 3.633E-07 1.06.8 10.66	1045 3.333E-17 3.032E-07 114.3 10.01	1005 2.635F-17 2.561E-07 122.9 9.37	1095 2.1026-17 2.1896-07 132.4 8.75	[D095].6046-17].8936-07 [42.9 8.12 	1096 1.130E-17 1.460E-07 166.2 7.09
- 10 1164 ^Q K	TEMP URNSTTY PRESSURE SCALE MEAN K GH/GH3 UVNE/CH2 HT KM MOL HT	396 2,400E-11 2,7725E-02 11.2 27.01 440 9,042E-12 1,200E-02 15.0 26.32 527 4,100E-12 6,990E-03 19.2 25.65	403 2.1136-12 4.2136-03 21.3 25.02	666 1.1955=12 2.1195=03 24.4 24.40 *38 *.1575=14 1.8575=03 27.4 23.61	782 4.662E-15 1.305E-03 30.2 23.26	629 3.1305-13 7.5065-04 35.3 22.67 4.609 660 2.1772-13 7.0095-04 35.3 22.617	902 1.55AE-13 5.301E-04 37.7 21.60	91 1.141E-13 4.165E-06 39.9 21.21	956 8.5256-14 3.2626-04 41.4 20-70 24 2.256-14 3.2626-04 41.4 20-36	906 4°0000-14 20066-04 40°7 19-05	1000 1 0006-14 1.6666-06 67.6 10.50	1022 3.0576-16 1.3546-04 49.0 19.24	1032 2.4440-14 1.1078-04 50.5 18-92	1040 1.5036-14 7.5206-05 53.2 10-34	1062 1.058F-16 5.215E-09 55.7 17.85	1072 7.1796-15 3.6666-05 57.8 17.42	1077 4,9726-15 2,6106-05 59.0 17.05	1005 2.4035-19 1.0775-09 63.2 16.44	1007 1.7626-15 0.9696-06 64.9 16.16	1089 1.200E-15 7.351E-06 66.4 15.89	1003 9.4135-16 5.4606-06 68.0 15.63 	1092 5.102E-16 3.077E-06 71.6 15.05	1091 1.7885-16 2.3365-06 73.6 14.73	1093 2.8265-16 1.7005-06 76.0 14.37	1094 2.120E-16 1.300E-06 78.6 13.97	1094 1.5986-16 1.0755-00 81.7 13-34 1.046 1.2115-16 8.6625-07 85.3 13.02			1045 7.003547 2.412C-01 7442 11470 1045 8.4646417 4.4096-07 100.2 11-29	1005 4.252E-17 3.633E-07 106.8 10-66	1045 3.333E-17 3.032E-07 114.3 10.01	1005 2.635F-17 2.561E-07 122.9 9.37	1095 2.1026-17 2.1896-07 132.4 8.75	1095 1.6946-17 1.8936-07 142-9 8-15	1096 1.1366-17 1.4606-07 166.2 7.09
$u_{R} = 10$ $T(14) = 1104$ ^{O}K $T(4) = 805$ ^{O}K	TEMP URNSTTY PRESSURE SCALE MEAN K GH/GH3 DYNE/CM2 HTKM MQL HT	u 556 2.400E-11 2.722E-02 11.2 27.01 u 640 9.042E-12 1.200E-02 19.0 26.32 u 527 4.100E-12 6.998E-03 19.2 25.66	u 400 2.1136-12 4.2136-03 21.5 25.02	.0 6.06 1.1996-12 2.47195-03 24.4 44.40 738 7 26.6214 1.8676-03 27.4 23.61		10 529 3.1345-13 4.5045-04 32.5 22.67 10 865 2.1775-13 7.0095-04 35.3 22.67	0 902 1.5508-13 5.3918-04 37.7 21.60	10 931 1.141E-13 4.165E-04 39-9 21-21	() 956 8.5255-14 3.2525-03 41.9 20-70 	0 906 4,9000-14 2,0050-07 73.0 50.7 19.05	0 1000 1 6006-14 1.6666-06 67.6 10.58	10 1022 3.0576-14 1.3546-04 49.0 19.24	10 1032 2.440E+14 1.107E+04 50.5 18-92	00 1344 1.4588 14 7.5306-05 53.2 10.34	00 1062 1.0555-14 5.2155-05 55.7 17.65	0 1073 7.1796-15 3.6666-05 57.8 17.42	50 1077 4.9726-15 2.6106-05 59.0 17.05	10 [001 3.4436-15 1.9626-09 63.2 16.44	0. 1007 1.7026-15 0.0696-06 64.9 16.16	10 1089 1.2006-15 7.3516-06 66.4 15.89	50 1003 9.4136-16 5.4606-06 68.0 15.63		20 1001 1.7NHF-16 2.336E-06 73.6 14.73	50 1093 2.0265-16 1.7005-06 76.0 14.37	50 1094 2.120E-16 1.300E-06 70.6 13.97	0.0 1094 1.5986-10 1.0755-00 81.7 13.32 33 1.096 1.2115-16 8.6625-07 85.3 13.02			40 [045 (+003)=[7 0+420=07 1402 11+70	41 105 4.252E-17 3.633E-07 106.8 10.66	00 1095 3.333E-17 3.032E-07 114.3 10.01	21 1003 2.6356-17 2.5616-07 122.9 9.37	40 1095 2.1026-17 2.1896-07 132.4 8.75	6.] [095].6946-17].8936-07 [42.9 8.15	00 1076 1.136F-17 1.460E-07 166.2 7.09
HQUR- 10 $\pi(14) = 1164^{-0} K$ $\pi(4) = 805^{-0} K$	ALT TEMP URNSTTY PRESSURE SCALE MEAN Km k Gh/Gh3 Uvne/Cm2 ht km mol ht	124 556 2.400E-11 2.722E-02 11.2 27.01 134 546 9.042E-12 1.200E-02 15.0 20.32 140 527 4.100E-12 6.9996-03 19.2 25.65	150 400 2.1136-12 4.2136-03 21.5 25.02	100 605 1,1995=12 2,7195=03 29,9 29,90 190 930 9 3675=14 1,8675=03 27,4 23,601		100 829 3.13JE-13 4.5UGE-04 32.7 22-09 200 868 2.177E-13 7.009E-04 35.3 22.17	210 902 1.550E-13 5.301E-04 37.7 21.60	220 931 1.1416-13 4.1656-04 39-9 21-21	230 996 8.5255-14 3.25255-04 41.9 20-70 	250 994 4.900E-14 2.0066-04 45.7 19.95	310 1000 1 0006-14 1 6666-06 67.6 10.58	270 1022 3.0578-14 1.3548-04 49.00 19.24 1	200 1032 2.440E+14 1.107E+04 50.5 18.92	240 1344 1.4346-14 V.1046-05 53.2 10.34 300 1040 1.5036-14 7.5306-05 53.2 10.34	*20 1062 1.0555-16 5.2156-09 55.7 17.85	340 1073 7.1796-15 3.6666-05 57.8 17.42	360 1077 4.9726-15 2.6106-05 59.0 17.05	300 [UUL 3.4736=12 1.4776=03 01.0 04.0 40.14 400 [005 2.4036=15 1.3626=03 63.2 16.44	42% 1007 1.762E-15 9.969E-06 64.9 16.16	44) 1089 1.29/6-15 7.351E-06 66.4 15.89	460 1093 9.4138-16 5.4606-06 68.0 15.63	5 00 1092 5. 102E-16 3.077E-06 71.6 15.05	«20 1003 J.THHE-16 2.336E-06 73.6 14.73	540 1093 2.0266-16 1.7006-06 76.0 14.37	560 1094 2.120E-16 1.300E-06 78.6 13.97	50.0 1094 1.5986-10 1.0755-00 81.7 13.32 403 1094 1.2115-16 8.6625-07 85.3 13.02			64/3 [075 7.60835"[7 3.4126"07 74.5 11.29 2.1.1 1045 8.4546"]7 4.4095"07 [00.2 11.29	ині 11195 4.252E=17 3.633E=07 106-8 10-66	700 1095 3.333E-17 3.032E-07 114.3 10.01	723 1005 2.635F-17 2.561E-07 122.9 9.37	740 1095 2.1026-17 2.189E-07 132.4 8.75	74.] [095].6046-17].8936-07 [42.9 8.12 	HU 1046 1.1366-17 1.4666-07 166.2 7.09

	N (A) / CM3	4.5008 39 1.1438 09 3.8738 08 1.5618 08	7.1256 07 3.5666 U7 1.9116 07 1.0776 07 6.3156 07	3.8176 06 2.3636 06 1.4916 06 9.5576 05 6.2056 05	4.072E 05 2.696E 05 1.799E 05 1.208E 05 8.154E 04	3.768E 34 1.767E 04 8.382E 33 4.014E 03 1.930E 03	N (H) /CM3 2.884 J4	2.833E 04 2.784E 04 2.736E 04 2.489E 04 2.689E 04 2.643E 04	2.5596 04 2.5556 04 2.5136 04 2.4316 04 2.4316 04 2.4316 04	2.391E .4 2.352E 04 2.314E 04 2.277E 04 2.241E 04
el 3	N(HE) /CH3	2.4006 07 1.8446 07 1.5126 07 1.2846 07	. 1.1206 07 9.9786 U6 9.0386 U6 8.2906 U6 7.6776 D6	7.162E 06 6.721E 06 6.338E 06 5.993E 06 5.993E 06	5.420E 06 5.170E 06 4.939E 06 4.726E 06 4.528E 06	4.168E 06 3.848E 06 3.561E 06 3.301E 06 3.001E 06	2.847E 96 2.648E 06 2.6464E 06 2.295E 96 2.139E 36	1.995E 06 1.061E 05 1.737E 06 1.622E u6 1.515E 06	1.416E 06 1.324E 06 1.238E 06 1.159E 06 1.159E 06 1.085E 06	1.016E 36 9.518E u5 8.920E 35 8.363E 35 7.843E 35
Mođ	N (0) / CM3	7.600E 10 3.774E 10 2.195E 10 1.398E 10	9.5266 09 6.8326 09 5.0946 09 3.9106 09 3.9106 09	2.453E 09 1.987E 09 1.628E 09 1.345E 09 1.120E 09	9.377E 08 7.892E 08 6.671E 09 5.658E 08 4.8142 00	3.510E 08 2.579E 08 1.907E 08 1.416E 08 1.056E 08	7.896E 07 5.923E 07 4.454E 07 3.357E 07 2.535E 07	1.919E 07 1.454E 37 1.135E 37 8.404E 06 6.405E 06	4.8895 06 3.7385 06 2.8635 06 2.1965 06 1.6875 05	1.298E 36 1.000E 36 7.718E 05 5.965E 05 4.617E 05
	N1021 /CM3	7.5006 10 2.379E 10 9.646E 09 4.524E 09	2.3596 09 1.3306 09 7.9516 08 4.9666 08 3.2086 08	2.127E 08 1.439E 08 9.903E 07 6.906E U7 4.869E 07	3.465E 07 2.484E 07 1.793E 07 1.301E 07 9.480E 06	5.396E 06 2.774E 06 1.524E 06 8.444E 05 4.708E 05	2.638E 05 1.487E 05 8.417E 04 4.785E 04 2.732E 04	1.565E 34 8.999E 03 5.193E 33 3.007E 93 1.747E 03	1.0186 03 5.9526 J2 3.4916 U2 2.0546 D2 2.0546 D2 1.2136 U2	7.1796 01 4.2636 01 2.5396 01 1.5176 01 9.0866 00
	N(N2) /CM3	4.0006 11 1.4186 11 6.2916 10 3.1846 10	1.7746 13. 1.7746 13. 1.7096 09 6.7096 09 4.4116 09 2.9916 39	2.077E 09 1.470E 09 1.356E 09 7.684E 08 5.646E 08	4.184E 08 3.122E 08 2.343E 08 1.767E 08 1.339E 08	7.763E 07 4.553E 07 2.694E 07 1.605E U7 9.621E 06	5.791E 06 3.534E 06 2.129E 06 1.299E 06 7.946E 05	4.879E 05 3.095E 05 1.857E 05 1.151E 05 7.151E 04	4.457E J4 2.786E J4 1.745E U4 1.098E J4 6.917E J3	4.371E 03 2.769E 03 1.759E 03 1.120E 03 7.154E 02
805 ⁰ K	MEAN Mol WT	27.01 26.33 25.69 25.08	24,50 23,95 23,42 22,43 22,43	21.97 21.53 21.10 20.32 20.32	19.96 19.62 19.30 19.00 18.71	18.20 17.76 17.37 17.37 17.03 16.73	16.45 16.19 15.94 15.69 15.43	15.16 14.87 14.54 14.54 13.79	13.36 12.89 12.38 11.83 11.26	10.67 9.47 8.89 8.33
T(4) =	SCALE HT KH	11.2 15.3 18.9 22.4	25.9 29.1 32.1 37.49	39°8 42°0 44°1 47°9	49.6 51.2 52.8 54.2 55.6	58.1 60.4 64.4 66.1	67.8 69.4 71.0 72.6	76.1 78.1 80.3 82.8 85.7	89.0 92.8 97.3 102.3 108.2	114.8 122.4 130.8 140.2 150.4
.184 °K	PRESSURE DYNE/CM2	2.722E-02 1.289E-02 7.167E-03 4.411E-03	2.9146-03 2.0246-03 1.4606-03 1.0836-03 8.2116-04	6.3396-04 4.9656-04 3.9366-04 3.1536-04 3.1536-04 2.5496-04	2.076E-04 1.703E-04 1.405E-04 1.165E-04 9.714E-05	6.834E-05 4.877E-05 3.523E-05 2.570E-05 1.892E-05	1.403E-05 1.048E-05 7.883E-06 5.967E-06 4.544E-06	3.483E-06 2.687E-06 2.087E-06 1.633E-06 1.238E-06	1.025E-06 8.222E-07 6.661E-07 5.450E-07 4.507E-07	3.766E-07 3.181E-07 2.716E-07 2.343E-07 2.041E-07
T(14) = 1	DENSITY GM/CM3	2.4936-11 8.9386-12 4.0476-12 2.1036-12	1.2086-12 7.4866-13 4.9086-13 3.3616-13 2.3816-13	1.733E-13 1.292E-13 9.775E-14 7.523E-14 5.866E-14	4.626E-14 3.685E-14 2.961E-14 2.398E-14 1.955E-14	1.323E-14 9.142E-15 6.422E-15 4.575E-15 3.297E-15	2.399E-15 1.762E-15 1.303E-15 9.697E-16 7.260E-16	5.463E-16 4.131E-16 3.139E-10 2.395E-10 2.995E-10 1.836E-16	1.414E-16 1.094E-16 8.513E-17 6.658E-17 5.237E-17	4.146E-17 3.305E-17 2.654E-17 2.149E-17 1.754E-17
12	TEHP K	355 457 633	711 779 838 888 930	966 997 1022 1044 1062	77C1 1011 1011 1111	1131 1143 1146 1151 1151	1157 1159 1161 1161 1162	1162 1163 1163 1164 1164	1164 1165 1165 1165 1165	1165 1165 1165 1165
ноик=	AL T KM	150 150 150	1 200 2 00 2 00 2 00 2 00 2 00 2 00 2 00	210 250 250 250 250 250	260 270 290 300	880 880 860 800 800 800 800 800 800 800	423 440 480 500	550 560 560 560 560 560 560	640 640 680 700	720 740 780 802

Wodel 3	NIME NIME NIA)	10 3 6005 vi 2005	10 1.824E 07 1.1336		10400 T 10140444 44	09 1-103E 07 7-401E	09 9.855E 06 3.835E (00 8.935E 06 2.102E	09 7.653F 06 7.2560 0		09 7.160E 06 4.444E (09 6.7375 06 2.7935 (09 6.367E 06 1.703E C	UY 6.0395 06 1.1615 (09 5.7455 06 1.1515 (09 5.477E 06 5.055E 0	US 5.232E 06 3.301E 0	UN 3.0006 UN 2.276E 0 08 4.7966 06 1 5415 0			03 4.243E 06 4.920E 0	08 3.9258 06 2.3398 0 08 3.4376 06 2.3398 0				07 2.718F 06 N(H)	07 2.533E 06 /CtB	07 2.362E 06	UT 2.203E 06 2.805E 0	07. 2.057E 06 2.03%F 04	07 1.921E 06 2.707E 04	07 1.794E 06 2.739E 04		U I+203E UO Z+643E 01	16 1.467E U6 2.604E D4	16 1.373E 06 2.561E 04	1.286E J6 2.519E U4	0 1-205E U6 2.478E 04	10 I+129E 06 2+430E 04	A 1 A605 A1 A 2020		C 7.722E U2 Z.361E U4
	M(02) M(0) /CM3 /CM3	7-500E 10 7-400E	2.353E 10 3.715E	9.605E 09 2.155E		2+433E 09 9-482E	B-520F 08 5-1746	5-413E 08	3.551E 08 3.177E	1	Z-387E 00 Z-559E	1.120F 08 2.088E	8-0305 00 1.1225	5-715E 07 1.199E		7-1025 07 1-0095	2. 356F 07 7. 349E	1-575E 07 6-167E	1.156E 07 5.266E	x 3005 04 0 0 0 0 0 0 0	2-4415 04 - 2-8655	1-921E 06 2-124E	1-075E 06 1-585E	5.345E 05 1.188E	3.418E 05 8.920E /	1.944E 05 6.721E 0	1.110E 05 5.076E C	6.364E 04 3.842E (3.663E 04 2 012E 0		2-117E 04 2-214E 0	1-2276 04 1-686E 0	4-168F 03 1.206F 0 4-168F 03 0 0315 0	2:441E 03 7.515F 0		1-435E 03 5.760E 0		2.00 UZ 3.400 UZ 3.400 UZ			1.053E 02 1.560F 0	6.203E 01 1.207E 0	3.7846 01 9.3496 0
, ok	AN N(NZ) MT ZCM3	01 4.000E 11	34 1.401E 11	12 6•243E 10 13 3•202E 10	50. 1 1.0145 10		55 7.093E 09	07 4.735E 09	60 3.255E U9			30 1-100F 00	91 B.7386 DR	53 6.477E 08	17 A 8375 A8		50 2.747E 08	20 2.0856 08	JL 1.589E 08	10 3115 01	3. 5.5155 07	3 3.2926 07	7 - 1. 1.979E 07	6 1.196E 07	7 7.253E 06	1 4.423E 05	6 Z-708E U6	7 1.026E 36		1 6.343E 05	4 3.440E US	L 1.529E 05	4 9.570E 04					7 9.589F Ja) 6.102E J3	2 3.893E 03	3 2.490E U3
T (4) = 805	SCALE WE HT KH MOL	11.2 2.7.	15.6 26.	23.3 25	26-8 24-	30.1 24.1	33.1 23.	35.9 23.(38.4 22.	40.7 J	42-9 21	44.9 21.3	46.8 20.5	48.5 20.5	50-2 20-1	51-8 19-6	S53.3 19.5	54-7 19-2	56.1 18.9	58.6 19.3	60.9 17.9	62.9 17.5	64*9 I1*I	00.00	68.3 16.5	69.9 16.3	0.01 C.11 8.21 1.257	74.8 15.5	•	76.5 15.3	80.5 14.7	82.8 14.4	85.5 14.0	88.5 11.41	92.0 13.20	96.0 12.7	120.7 12.21	106.0 11.67		112.0 11.10	118.9 10.52	126.7 9.93
= 1184 ⁰ K	r PRESSURE DYNE/CM2	L 2.7226-02	2 1.234F-02	4.589E-03	3.077E-03	2.166E-03	1.1.579E-03	1.182E-03	*•U306-04	7-0145-04	5.522E-04	4.397E-04	3.535E-04	2.866E-04	2.341E-04	1.9246-04	1.591E-04	1.3226-04	1.1046-04	7.786E-05	5.570E-05	4.0336-05	20-3444-20 20-346-06	2+410C-03	1.617E-05	1.211E-05 9-124E-06	6.923E-06	5.280E-06		4.053E-06 3.130E-06	2.434E-06	1.905E-06	1.502E-06	1.1936-06	9.561E-07	7.728E-07	6.306E-07	5.1956-07		4.324E-07	3.0366-07	 3.0895-07
T (14)	HP DENSIT	55 2.490E-11	5 4.012E-12	B 2.109E-1	0 1.230E-12	D 7.7326-13	0 5.140E-13			7 1.875E-13	6 1.406E-13	D 1.073E-13		8 6.508E-14	2 5.154E-14	4 4.120E-14	• 3•320E-14	2.095E-14		1 1.496E-14	1.036E-14	7.298E-15	3-7636-15		2.744E-15	1 2.019E-15	1.117E-15	9.382E-16	1 3366 3	6.794E-16	3.651E-16	2.793E-16	2.146E-16	1.656E-16	1.284E-16	1.000E-16	7.830E-17	6.162E-17		4.8796-17	2 • 2000 + T	3.1176-17
HOUR= 14	ALT TEI Kh K	120 35	140 56	150 65	160 74	100 01		200 96	2	210 . 99	220 102	230 105	250 100	1907 067	260 1102	270 1114		300 1147		320 1151		3011 000 3011 000	400 1172		420 1175	460 1178	480 1179	500 1160	520 11 11 E2	540 1181	560 1161		2911 1185	620 1182	640 1182	660 1183	680 1183	100 1183				

	N (N) / CH3	4 600E 30	1.1266 09	3.9036.08	1.031E UB	7.725E 07	3.994E 07	2.200E UT	1.269E 07	7.576E 06	4.4455 04	2.9085 06	1.850E 06	1.192E J6		5.090E 05	3.3736 05	2.2456 05	1.502E 35	1.009E 35	4.606F 04	2.128F 14	9.926E 03	4.668E 03	2.211E 03	•	(H) N	/CM3		2.934E D4	2 2 2 1 2 2 2	2 8205 UT	2.7795 04	2.730E 04	2.682E 04	2.636F 04	2.59hF .4	2.5468 04	2.503E 04	2.461E U4	2 4105 54	2.379F 1.4	2.340E U4	2.301E 04	2.263E U4
odel 3	и (не) /смз	2.4005 03	1.8106 07	1.4766 07	11 2062 1	1.102E 07	9,885E U6	9,039E U6	8.311E U6	(. 130E UG	7.250F 36	6.831E 56	6.463E 06	6.135E U6 5.838F 06		5.567E 06	5.317E Ü6	5.086E 06	4.870E 06	4.668E.U6	4.298E 06	3.967E 05	3.6685 06	3.396E 06	3.147E 06	2 010F 04	2-7105 56	2+518E U6	2.34JE US	2.177E U6	2.026E 06	LEVEUL UD	1.757E 06	1.637E U6	1.526E U6	1.424E 36	1.329F 06	1.24UE U6	1.158E C6	1.082E U6	1-0126 0.6	9.461F u5	8.850E US	8.282E US	7.753E uS
Mc	N (0) / CH3	7-606F 1D	3.6756 10	2.137E 10	++	9.562E 09	6.974E 09	5.270E 09	4.106E U9	60 3182.0	2.630F 09	2.148E 09	1.770E 09	1.228F 09		1.031E 09	8.692E 08	7-351E 08	6.235E 08	5.301E 08	3.853E 08	2.8195 08	2.072E 08	1.529E 38	1.132E 00	8.396F 07	6.249E 07	4.662E 07	3.486E 07	2.612E 37	1.9605 07	1.4746 07	1.111E 07	8.386£ 06	6.341E 06	4.802E 06	3.643E 06	2.769E 06	2.1386 06	1.607E 06	1.227F 06	9.383E 05	7.187E 05	5.514E 05	4.236E 05
	N(02) /CM3	7-500E 10	2.3356 10	9.609E 09		2.493E 09	1.445E 09	8.840E 08	5.631E U8	20 JB60 - C	2.482E 08	1.697E 08	1.176E 08	5.831E 07		4.155E 07	2.9796 07	2.147E 07	1.554E UT	1.124E U/	6.011E 06	3.234E 06	1.754E 06	9.580E 05	5.262E 05	2.900E 05	1.609E 05	8.964E 34	5.015E 04	2.817E 34	1.5886 04	8.988E 03	5.104E U3	2.909E 03	1.6645 03	9.546E 02	5.496E 32	3.174E U2	1.839E U2	1.069E 02	6.236E J1	3.6485 01	2.140E UI	1.266E U1	7.436E JO
	N (N2) /CM3	4.000E 11	1.3896 11	6.232E 10 3.234E 10		1.851E 10	1.136E 10	7.329E 09	**************************************		2.373E 09	1.696E 09	1.227E 09	6.615E UB		4.910E 08	3.665E U8	2.7485 08	2. 543F 08	00 200C • T	0.995E 07	5.224E 07	3.056E UT	1.799E 07	1.064E 07	6.315E 06	3.769E 06	2.258E U6	1.350E 06	8.193E 05	4.960E 05	3.013E US	1.836E US	1.122E 05	6.877E 04	4.228E 04	2.607E 34	1.612E 04	9*999E V3	6.218E 03	3.878E 03	2.425E U3	'1.520E 03	9.557E J2	6.024E 52
805 ⁰ K	NEAN Nol WT ¹	27.01	26.34	25.73 25.16		24.62	24.09	90.52	11.000		22,18~	21.74	16.15	20.52		20.15	19-83	19.45	19 24	00 00 1	18.32	17.85	17.45	17.09	16.77	16.48	16.22	15.96	15.70	15.44	15.16	14.86	14.53	14.16	13.76	13.31	12.81	12.28	11.71	11.12	10.51	9.89	9.28	8.68	8.12
T (4) =	SCALE HT KH	11.2	15.9	19.8 23.5	ر ا	27.0		0.00 A 70	97.6		40-3	42°C	5 4 0 4 0 7 4 0 4 0 7 4 0 4 0	47.2		48.7	2.00	0-10	56.0		56+5	58.7	60.7	6 •70	2.40	65.8	67.4	68.9	70.5	2.21	73.9	75.9	78.1	80.6	C.58	86.9	90.8	95.3	100.5	1.16.4	113.3	121.1	129.8	139.5	150.041
1164 ⁰ K	PRESSURE DYNE/CM2	2.722E-02	1.306E-02	4.685E-03		3.153t-03	50-3777+7	1.2046-03	9.2086-04		7.124E-04	5+583E-04	3.5376-04	2.851E-04	· · · · · · · · · · · · · · · · · · ·	2.314E-04	1+041C+04	1.2835-04	1.0645-04		7-4186-05	5.243E-05	3.750E-05	<pre><************************************</pre>	CD-3014.1	1.452E-05	1.075E-05	8.016E-06	6.017E-06	4. 343E-U0	3.457E-06	2.647E-06	2.041E-06	1.587E-06	1. 2435-00	9.8326-07	7.8485-07	6.329E-07	5.158E=07	4.251E-07	3.543E-07	2.986E-U7	2.546E-07	2.194E-07	1• YIIE-01
T(l4) =	DENS I TY GM/CM3	2.4906-11	8.752E-12 4.0036-13	2.1276-12		7 0300-13	5. 2066-13	3.680F-13	2.6386-13		l.938E-13	1.1056-13	8.527E-14	6.657E-14		5.250E-14	3 3000-10	2.705F-14	2.1986-14		1.477E-14	1.011E-14	1.041E-15 4.0736-36	2 5405-14		2.5586-15	1.861E-15	1.365E-15	1.00/E-15		5.581E-16	4.186E-16	3.156E-16	2.394E-16	1.0145410	1.3916-16	1.004E-16	B. 258E-17	0.440E-11	5. JZUE-11	3.953E-17	3.136E-17	2.538E-17	2.JZ3E-11	1.04/6-1/
= 16	TEMP K	355	4 1 3 7 7 8	666	716		867	913	656		195	10.26	1043	1057		1070	1086	1093	1098		1107	1115	11 21	1317	C 7 T T	1125	1126	1128	11 20	4777	1133	1130	1131	1611	1011	11 32	2611	2611	2611	2611	1133	1133	1133	6611 6611	CC 1 1
HOUR	ALT KH	120	051	150	140	170		190	200		210	022	240	250		020		290	300		320					420	0.44	460	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		520	540	563		200	623	040	0.00		10.7	720	74.5	-91	000	000

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	NIA	4.500 1.124 3.912	1.644 7.788 4.002 2.177 1.234	7-206	4.039 2.5530 1.6577	6.9206 2.9376 1.2596 5.4516 2.3706 1.0456	N (H) /CM3	2.957E 2.957E 2.899E 2.842E 2.7332	2.681E 2.532E 2.531E 2.532E 2.532E 2.485E 2.439E 2.439E 2.439E 2.3351E 2.3351E 2.303E 2.267E
	1 ((HE) (243	005 07 185 07	265E U7 17E 07 07E 07 115E 06 23E 06	658 06 458 06 166 06 316 06 688 06 688 06 688 06	77E 06 09E U6 59E 06	078 06 058 06 058 06 2388 06 308 06 548 06	21E 06 09E 06 07E 06 22E 06	11E 06 22E 06 22E 06 22E 06	96 06 96 06 97 06 98 06 68 05 66 05 60 0000000000
		N		2000 2000 2000 2000 2000			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1-90 1-74 1-40 1-90	1.27 1.18 1.01 1.01 1.01 1.01 1.01 1.01 1.01
•		006 L0	46 10 576 09 566 09 966 09	06 09 246 09 246 09 36 09 37 09	6 E E E E E E E E E E E E E E E E E E E	8 E 08 4 E 08 6 E 08 6 E 08 2 E 08 2 E 08	26 07 86 07 86 07 36 07	на 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	N.X	2.66	- 6 M S 4 1	9-10 	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 • 39 9 • 6 19 7 • 6 11 7 • 7 20	9.406 9.406 5.9885 3.711	2.732 2.015 1.489 1.102 8.173 8.173 8.173 8.173 8.173 8.173 8.173 1.2518 1.881 1.881
	I(02) (CM3	005 10 305 09 306 09	678 09 678 09 678 09 678 09	95E 08 69E 08 05E 08 73E 08 37E 07 56E 07	07E 07 46E 07 13E 07 55E 07	715 06 555 06 555 06 555 06 555 05 535 05	2668 05 388 04 788 04 788 04	56 03 86 03 96 03 96 03 96 02	228 02 24 28 02 24 28 01 24 20 24 20 24 20 20 20 20 20 20 20 20 20 20 20 20 20
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	N (NZ) /CH3	000E 11 387E 11 245E 10 263F 10	8766 10 1506 10 3806 09 3826 09	2298E 09 512E 09 144E 09 184E 08	105 08 105 08 105 08 2815 08 755 08	46E 07 46E 07 65E 07 53E 07 73E 06	42E 06 63E 06 73E 06 98E 05 38E 05	086 05 746 05 816 04 916 04 016 04	116 03 116 00 100 0000000000000000000000000000
		4 - 0 4			4 N M 4		90129 90120 9000 900	N	
= 805 ⁰	MEAN .	27.01 26.34 25.73 25.16	24.60 24.60 23.05 23.02	22.04 21.56 21.11 20.68 20.68	19.87 19.50 19.16 18.83	17.99 17.52 17.52 16.78 16.46	16.17 15.89 15.61 15.32 15.32	14.65 14.65 13.81 13.81 12.76	1
T (4)	SCALE HT KH	11.2 15.9 19.8 23.3	26.4 29.1 31.5 33.7	37 39 40 40 42 42 42 42 42 42 42 42 42 42 42 42 42	45.3 46.7 46.7 40.1 50.3	000000 00000 0000 0000 000 000 000 000	60.9 62.4 63.9 67.6	69.5 71.8 74.6 81.7 81.7	91.6 91.6 91.6 113.5 113.5 122.8 122.8 123.5 144.5 155.5 155.5
1184 °K	PRESSURE DYNE/CM2	2.7226-02 1.3056-02 7.4386-03	3.1216-03 2.1766-03 1.5656-03 1.1526-03 1.1526-03 8.6376-04	6.575E-04 5.070E-04 3.952E-04 3.110E-05 2.467E-04	1.972E-04 1.587E-04 1.285E-04 1.045E-04 8.549E-05	5.792E-05 3.903E-05 2.774E-05 1.953E-05 1.308E-05	9.943E-06 7.187E-06 5.236E-06 3.845E-06 2.846E-06	2.124E-06 1.600E-06 1.218E-06 9.365E-07 7.287E-07	4.585E-07 3.712E-07 3.047E-07 2.537E-07 2.537E-07 1.832E-07 1.2886E-07 1.228E-07
T(14) =	DENS I TY GH/CH3	2.490E~11 8.740E~12 4.011E~12 2.147E-12	1.270E-12 8.046E-13 5.353E-13 3.695E-13 2.623E-13	1.904E-13 1.408E-13 1.608E-13 1.057E-13 8.042E-14 6.188E-14	4 .809E-14 3.771E-14 2.981E-14 2.373E-14 1.902E-14	1.243E-14 8.294E-15 5.626E-15 3.871E-15 2.696E-15	1.894E-15 1.344E-15 9.610E-16 6.918E-16 5.011E-16	3.651E-16 2.675E-16 1.971E-16 1.461E-16 1.090E-16 8.179E-17	6.1835-17 4.7126-17 3.6226-17 2.8116-17 2.8146-17 1.7486-17 1.7486-17 1.14056-17 1.14056-17 1.14056-17 1.14056-17 1.14056-17 1.14056-17 1.14056-17
1 • 18	TEMP K	355 473 574 658	727 783 827 863 892	915 934 962 972	987 987 993 998 1002	1008 1012 1016 1018 1018	1021 1022 1023 1023 1024	1025 1025 1026 1026 1026	1027 1027 1027 1027 1028 1028 1028 1028 1028
HOUR	ALT	120 140 150	160 170 180 190 200	210 230 240 250	260 270 280 290 300	320 320 400 400 400 400 400 400	4 4 4 0	6 600 6 6000 6 600 6 6000 6 600 6 60	640 6660 6660 720 720 720 720 720 720 720 720 720 72

	N(AL /CH3	4.500E 09 1.127E 09 3.926E 08 1.645E 08	7.722E J7 3.906E U7 2.079E O7 1.146E J7 6.489E U5	3.745E 06 2.194E 06 1.300E 06 7.773E 05 4.603E 05	2.839E 05 1.730E 05 1.059E 05 6.508E 04 4.013E 04	1.539E 04 5.964E 03 2.331E 03 9.184E 02 3.644E 02	N (H) /CM3 3.108E 04	3.039E 04 2.972E 04 2.907E 04 2.843E 04 2.782E 04 2.782E 04	2.722E 34 2.664E 34 2.668E 04 2.553E 04 2.553E 04 2.500E 04	2.448E 04 2.397E J4 2.348E 04 2.300E J4 2.253E U4
del 3	N(HE) /CM3	2.400E 07 1.814E U7 1.489E U7 1.282E U7	1.138E 07 1.031E 07 9.460E 06 8.765E 06 8.1765 06	7.211E 06 7.211E 06 6.833E 06 6.432E 06 6.091E 06	5.776E 06 5.483E 06 5.210E 06 4.954E 06 4.713E 06	4.273E 06 3.880E 46 3.527E 46 3.210E 46 2.925E 06	2.665E 06 2.432E 06 2.220E v6 2.028E v6 1.854E 06	1.696E 36 1.552E 06 1.421E 96 1.332E 46 1.193E 46	1.095E 06 1.004E 06 9.222E 45 8.471E 35 7.786E 95	7.159E 65 6.586E 65 6.061E 05 5.581E J5 5.142E 65
OW	N(0) /CH3	7.600E 10 3.686E 10 2.164E 10 1.417E 10	9.937E 09 7.207E 09 5.509E 09 4.254E 09 3.337E 09	2.647E 09 2.117E 09 1.705E 09 1.380E 09 1.122E 09	9.146E 08 7.479E 08 6.129E 08 5.033E 08 4.140E 08	2.814E 08 1.921E 08 1.317E 08 9.360E 07 6.251E 07	4.317E 07 2.995E 07 2.083E 07 1.452E 07 1.452E 07	7.109E 06 4.990E 06 3.511E 06 2.475E 06 1.749E 06	1.238E 06 8.784E 05 6.244E 05 4.448E 05 3.174E 05	2.270E 05 1.626E 05 1.168E 05 8.397E 04 6.051E 04
	N (02) / CM3	7.500E 10 2.339E 10 9.636E 09 4.736E 09	2.524E 09 1.444E 09 8.633E 08 5.324E 08 3.350E 08	2.153E 08 1.399E 08 9.176E 07 6.067E 07 4.037E 07	2.700E 07 1.814E 07 1.223E 07 8.275E 06 5.614E 06	2.603E 06 1.217E 06 5.732E 05 2.717E 05 1.295E 05	6.181E 04 2.977E 04 1.441E 04 7.008E 03 3.424E 03	1.680E 03 8.283E 02 4.101E 02 2.0396 02 1.018E 02	5.1036 01 2.5696 01 1.2986 01 6.5896 00 3.3576 00	1.717E 00 8.814E-J1 4.542E-D1 2.350è-U1 1.22UE-J1
-	N(N2) /CH3	4.000E 11 1.392E 11 6.289E 10 3.291E 10	1.887E 10. 1.148E 10. 7.277E 09 4.746E 09 3.160E 09	2.137E 09 1.462E 09 1.009E 09 7.016E 08 4.906E 08	3.447E 08 2.432E 08 1.722E 08 1.222E 08 1.222E 08	4.436E 07 2.279E 07 1.178E 07 6.127E 06 3.202E 06	1.675E 06 8.837E 05 4.681E U5 2.490E 05 1.330E 05	7.129E 04 3.837E 04 2.073E 04 1.124E 04 6.120E 03	3.343E 03 1.833E 03 1.008E 03 5.568E 02 3.085E 02	1.715E U2 9.565E U1. 5.353E U1. 3.006E U1 1.693E U1
805 ⁰ K	MEAN MOL WT	27.01 26.34 25.72 25.13	24.56 23.99 23.43 22.34 22.34	21.81 21.30 20.81 20.35 19.91	19.49 19.41 18.75 18.42 18.11	17.58 17.12 16.74 16.39 16.08	15.76 15.44 15.10 14.71 14.27	13.76 13.19 12.54 11.83 11.07	10.29 9.50 8.73 8.00 7.34	6.75 6.23 5.79 5.41 5.11
T (4) =	SCALE HI KM	11.2 15.8 19.5 22.7	25.4 27.7 29.8 31.6 33.3	34.9 36.4 37.8 39.1	41.6 42.8 43.9 45.0 45.0	47.9 47.9 51.1 52.6 52.6	55.5 57.0 58.7 60.6 62.8	65.6 68.8 72.8 83.5 83.5	90.4 98.5 117.8 118.2 129.7	141.9 154.6 167.3 179.9 191.8
1184 ⁰ K	PRESSURE DYNE/CM2	2.722E-02 1.303E-02 7.385E-03 4.594E-03	3.030E-03 2.079E-03 1.468E-03 1.060E-03 7.792E-04	5.811E-04 4.389E-04 3.351E-04 2.583E-04 2.583E-04 2.009E-04	1.574E-04 1.242E-04 9.859E-05 7.873E-05 6.319E-05	4.127E-05 2.738E-05 1.840E-05 1.252E-05 8.599E-06	5.957E-06 4.173E-06 2.953E-06 2.111E-06 1.526E-06	1.118E-06 8.296E-07 6.254E-07 4.793E-07 3.738E-07	2.969E-07 2.401E-07 1.977E-07 1.656E-07 1.409E-07	1.216E-07 1.063E-07 9.384E-08 8.362E-08 7.509E-08
T(14) =	DENS I TY GM/CM3	2.493E-11 8.771E-12 4.046E-12 2.168E-12	1.281E-12 8.369E-13 5.329E-13 3.628E-13 2.539E-13 2.539E-13	1.814E-13 1.814E-13 9.721E-14 7.259E-14 5.482E-14	4.181E-14 3.218E-14 2.498E-14 1.953E-14 1.537E-14	9.703E-15 6.253E-15 4.100E-15 2.727E-15 1.835E-15	1.246E-15 8.543E-16 5.905E-16 4.112E-16 2.883E-16	2.035E-16 1.447E+16 1.037E-16 7.496E-17 5.471E-17	4.J36E-17 3.U13E-17 2.280E-17 1.751E-17 1.366E-17	1.083E-17 8.739E-18 7.169E-18 5.978E-18 5.061E-18
20	TEMP K	355 471 566 641	699 743 804 825	841 853 863 871 877	882 887 893 893 893	899 902 904 905 905	907 908 908 909	606 616 616	C16 C16 C16 C16 C16	116 116 116
HOUR=	ALT KH	120 140 150	160 170 180 190 200	210 220 230 240 250	269 270 280 293 300	340 340 400 400	440 4460 500 500	520 540 580 600	620 640 680 700	720 740 760 780 800

M-:3-12

000000 000000 8 8 8 8 8 8 0 0 0 0 0 4444 44444 ***** 0000 1001 20 2.0368 2.0368 7.0736 4.1936 7.0736 2.5956 2.5956 2.130E 2.667E 2.607E 2.548E 2.490E 4.5006 1.1326 3.9306 1.6376 3.2058 1.0256 5.0306 3.40306 3.40266 3.40266 3.0726 2.9996 2.9296 2.8606 2.79%6 2.435E 2.381E 2.320E 2.277E 2.227E N (H) /CU3 -1476 NCA3 -900000 000000 **NNNN**N NNNNNN 00000 00000 99999 ~~~~ **~~** 9 9 9 **33333**3 2.5265 2.52895 2.0755 1.8835 1.7105 2.400E 1.823E 1.504E 5.7908 5.4776 5.1866 4.6596 4.1946 3.7016 3.4146 3.4146 3.0555 3.9156 1.554E 1.412E 1.285E 1.169E 1.065E 9.705E 8.048E 8.072E 7.367E 6.720E 6.147E 5.620E 5.140E 4.704E 4.307E N (HE) /CH3 1.1592 1.0526 9.6616 8.9476 0.3346 7.797E 7.310G 6.005E 6.409E m flode1 9999 666666 883388 00000 000000 2002 900900 050505 200000 \$2225 8.3576 6.7306 5.4446 4.4076 3.5746 3.1476 2.1256 1.4386 9.7576 6.6386 4.527E 3.094E 2.120E 1.456E 1.002E 6.913E 4.779E 3.311E 2.299E 1.600E 1.1156 7.7936 5.4566 3.8286 2.6916 2.360E 1.567E 1.0%4E 6.985E 4.688E 1.0106 7.3056 5.5486 4.2496 3.2906 2.586E 2.043E 1.624E 1.297E 1.039E N CO3 10 UL UL UL UL 7.600E 3.711E 2.192E 2.492E 1.479E 01 7.072E 00 3.395E 00 1.637E 00 1.637E 00 7.926E-01 3.854E-01 1.882E-01 9.224E-02 4.540E-02 2.244E-02 10000 4 N N N 4 ***** 0022000 0100 000000 80000 6.337E 2.962E 1.391E 6.560E 3.109E 3.0568 1.3936 6.3056 2.9428 1.3528 1.925E 1.2166 7.7696 4.9948 2.059E 1.370E 8.975E 5.503E 3.691E 1.7045 7.5295 3.3526 1.5026 6.7746 7.500E 2.351E 9.747E 4.717E 2.506E 1.413E 8.291E 5.003E 3.080E NC 02) / CH3 99666 668888 008004 00000 44000 50000 00000 65555 1193 1.884E 1.133E 7.072E 4.528E 1.953E 1.305E 0.797E 5.969E 4.072E 2.790E 1.920E 1.325E 9.174E 6.368E 3.089E 1.510E 7.431E 3.679E 1.632E 9.1236 4.5868 2.3168 1.1758 5.9868 3.063E 1.573E 8.116E 4.204E 2.186E 1.1416 5.9786 3.1446 1.6606 8.7956 4.677E 2.497E 1.337E 7.189E 3.878E 4.000E 1.400E 6.338E 3.310E N (NZ) ţ °× NEAN IOL NT 17.20 16.84 6.84 5.84 16.84 5.86 15.45 15.08 14.65 14.17 13.60 9.18 8.75 8.42 8.42 7,50 7,50 2.95 2.22 1.42 0.58 9.72 8.88 8.08 7.35 6.71 6.16 5.63 4.95 4.74 27•01 26•34 25•71 25•10 24.51 23.91 23.32 22.73 22.16 21.60 21.06 20.54 20.05 15.60 805 64.8 69.1 74.4 80.8 85.4 97.4 107.6 119.0 131.2 143.8 52.6 54.3 56.2 58.5 61.3 56.5 68.8 80.4 91.1 SCALE HT KH 11.2 15.7 19.1 22.0 24.4 26.5 28.3 30.0 31.5 33.0 35.4 37.0 38.2 40.5 40.5 42.6 42.6 3 3.149E-05 2.041E-05 1.341E-05 8.917E-06 5.998E-06 4.071E-06 2.800E-06 1.949E-06 1.375E-06 1.375E-06 8.773E-00 7.758E-08 6.918E-08 6.212E-08 5.610E-08 1.295E-04 1.008E-04 7.901E-05 6.230E-05 4.939E-05 7.166E-07 5.313E-07 4.019E-07 3.104E-07 2.449E-07 1.974E-07 1.624E-07 1.361E-07 1.159E-07 1.159E-07 2.9216-03 1.9726-03 1.3706-03 9.7206-04 7.0236-04 2.7226-02 1.2996-02 7.3076-03 4.4936-03 5.151E-04 3.828E-04 2.878E-04 2.186E-04 2.186E-04 1.675E-04 PRESSURE DYNE/CM2 ి 1184 7.8246-15 4.9286-15 3.1596-15 2.0546-15 1.3526-15 8.968E-16 6.015E-16 4.068E-16 2.773E-16 1.905E-16 2.491E-17 1.864E-17 1.421E-17 1.421E-17 1.105E-17 8.764E-18 7.0896~18 5.8446-18 4.9036-18 4.1856-18 3.6136-18 3.6136-18 u 1.203E-12 8.008E-13 5.216E-13 3.507E-13 2.417E-13 1.700E-13 1.216E-13 0.828E-14 6.493E-14 4.832E-14 3.6346-14 2.7596-14 2.1146-14 1.6326-14 1.26926-14 320E-16 235E-17 527E-17 668E-17 384E-17 2,490E-11 8.820E-12 4.074E-12 2.184E-12 DENS I TY GM/CH3 T (14) 346 347 347 847 847 R FP 836 842 842 842 847 747 847 847 355 555 621 621 671 776 775 775 787 797 805 817 817 022 028 028 031 033 22 -UUR-200 200 200 200 200 620 660 680 700 ALT KM 120 2000 260 280 280 300 320 340 360 360 400 5600 261 400

<u>Model 4</u>

Properties of the Upper Atmosphere as Functions

of Height and Local Time for a Level of

Solar Activity Intermediate Between

Low and Mean Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 125 \times 10^{-22} \text{ W/m}^2$ c/s of the solar radiation at a wavelength of 10.7 cm.

fi T (14) 0

HOUR=

6600 20000 000000 50000 ő 00000 44444 4.500E 1.123E 3.968E 1.602E 7.9346 4.0076 2.11966 1.1586 6.5888 6.5888 3.6976 2.1396 1.2526 7.6006 7.6006 2.643E 1.5948 9.450E 5.8786 3.5916 N(A) /CH3 1.355E 5.165E 1.969E 7.727E 3.025E 1.6206 1.5046 1.5046 1.5006 1.5156 1.6026 1.450E 1.419E 1.389E 1.359E 1.331E N (H) /CM3 1.3036 1.2766 1.2496 1.2236 1.1986 •657E 1007 999999 FF \$33 **\$ \$ \$ \$** \$ \$ 300000 00000 NCHE) /CM3 2.403E 1.802E 1.465E 1.266E 1.1476 1.0416 9.5696 8.8696 8.2696 7.743E 7.275E 6.854E 6.470E 6.117E 5.7926 5.4916 5.2106 4.9476 4.7016 4.2536 3.8546 3.4986 3.1786 2.3916 2.644E 2.410E 2.199E 2.199E 2.007E 1.633E 1.6766 1.5326 1.5326 1.2856 1.1766 1.0786 9.8836 9.0686 8.3246 7.6456 7.024E 6.458E 5.939E 5.465E 5.032E 4 Model 2222 56666 000000 000000 7070 00200 1.0106 7.4206 5.6156 4.3276 3.3816 2.6706 2.1256 1.7026 1.3716 1.1066 N(0) /CH3 • 600E • 653E • 163E • 431E 8.995E 7.321E 5.973E 4.804E 4.002E 2.699E 1.830E 1.247E 8.527E 5.551E 4.132E 2.058E 1.981E 1.377E 2.595E 6.7016 4.6916 3.2906 2.3136 1.6306 1.1516 8.1396 5.7706 4.0996 2.9176 2.0505 1.4866 1.0646 7.6326 5.4846 N 10 04 ---01000 6 6 8 8 8 8 6 0 0 0 0 800100 001000 1.430E 00 7.300E-01 3.741E-01 1.925E-01 9.940E-02 444mm 00000 MNNN0 000000 7.500E 2.326E 9.754E 4.792E 2.534E 1.478E 8.801E 5.3906 3.3716 N (02) /CH3 2.1416 1.3776 8.9466 5.8586 3.6516 2.560E 1.7056 1.1406 7.6546 5.1556 2.357E 1.088E 5.063E 2.373E 1.119E 5.615E 2.608E 1.2936 6.250E 3.036E 1.4016 7.2596 3.5736 1.7666 1.7666 0.7666 4.3716 2.1586 1.1006 5.5496 2.8116 1100 01000 00000 00000 000000 7007 007 000 000 444 M M 002000 10000 N(N2) /CA3 4.000E 1.383E 6.321E 3.344E 1.928E 1.176E 7.618E 4.811E 3.180E 2.1326 1.4466 9.0966 6.8226 4.7316 3.298F 2.309E 1.623E 1.144E 8.089E 4.0756 2.0706 1.0596 5.4516 2.8226 1.542E 8.037E 4.261E 2.255E 1.198E 6.390E 3.422E 1.839E 9.926E 5.376E 2.922E 1.594E 8.720E 4.795E 2.644E 1.4626 8.1186 4.5216 2.5266 1.4166 ్ NEAN MOL WT 27.01 26.35 25.15 25.15 24.57 24.60 23.43 23.43 22.32 21.78 21.26 20.76 20.20 20.20 9.42 9.42 8.67 8.35 8.04 17.50 17.05 16.03 16.02 5.72 5.66 4.21 3.69 3.10 2.44 1.72 0.95 10.16 9.37 8.61 7.89 7.24 885 -6.67 6.17 5.74 5.39 5.09 11.2 16.0 19.6 22.6 25.1 27.3 21.0 32.6 SCALE HT KH 35.6 39.6 39.6 39.7 40.9 40.9 45.4 45.4 47.3 50.6 53.50 55.1 56.7 60.3 62.6 65.4 65.7 72.8 77.8 83.7 90.8 99.0 08.4 18.9 Ē 142.4 154.8 167.2 179.3 179.3 PRESSURE DYNE/CH2 2.7226-02 1.3116-02 7.4746-03 4.6566-03 3.063E-03 2.092E-03 1.468E-03 1.053E-03 7.690E-03 5.6996-04 4.2786-04 3.2496-04 2.4926-04 2.4926-04 1.9296-04 1.505E-04 1.103E-04 9.361E-05 7.451E-05 5.963E+05 3.873E-05 2.557E-05 1.711E-05 1.159E-05 1.159E-05 7.932E-06 5.655E-06 3.954E-06 2.792E-06 1.993E-06 1.439E-06 1.053E-06 7.8096-07 5.8656-07 4.511E-07 3.520E-07 2.798E-07 2.2656-07 1.867E-07 1.566E-07 1.333E-07 1.1516-07 1.0066-07 8.8886-08 7.9196-08 7.1076-08 °, 1318 2.4906-11 8.7146-12 4.0596-12 2.2016-12 1.307E-12 8.246E-13 5.424E-13 3.401E-13 2.561E-13 1.817E-13 1.312E-13 9.611E-14 7.133C-14 5.3565-14 DENS I I Y GN/CM3 4.06%E-14 3.113E-14 2.40%E-14 1.874E-14 1.470E-14 9.2176-15 5.9076-15 3.8546-15 2.5526-15 1.7106-15 1.1905-15 8.1406-16 5.6136-16 3.8995-16 2.7286-16 1.9226-16 1.3646-16 9.7606-17 7.0466-17 5.1376-17 3.7886-17 2.8286-17 2.1416-17 1.6466-17 1.2866-17 6226-17 2636-18 7956-18 6856-18 6856-18 E NP 847 647 647 865 875 874 860 888 808 809 809 809 809 809 809 809 693 732 787 806 902 902 903 903 106 106 106 **9**03 903 903 903 403 903 904 904 ۱. AL T KM 50 001 100 210 220 250 250 250 200 420 460 480 500 32003320040004 620 660 680 700 760 ţ

	R(A) ZCR3	4.5000 09 1.1296 09 3.9666 09	1.0016 00 7.7116 07 3.5246 07 1.9056 07 1.9056 07	9.000 9.0000 9.00000 9.0000 9.000000 9.0000000 9.0000000 9.0000000000	2.1605 05 1.2500 05 7.7555 05 7.7555 05 7.5555 05 7.6515 05 2.6035 05	2.00 2.00	N(H) , /сиз 1.6506 04	1.6208.04 1.5038 04 1.5478 04 1.5136 04 1.4198 04	1.447E 04 1.419E 04 1.309E 04 1.309E 04 1.325E 04 1.325E 04	1.2976 04 1.2696 04 1.2426 04 1.2426 04 1.2266 04 1.2916 04
dcl 4	К (НЕ) (— 7САЗ	2.4006 07 1.8146 07 1.5005 07	1.1616 07 1.1616 07 1.0536 07 9.6616 06 8.9556 06	u. 31.45 06 7. 7456 06 7. 2856 06 6. 9636 06 6. 4665 06 6. 9666 06 6. 0068 06	5.7500 06 5.4416 06 5.1548 06 5.1548 06 6.8878 06	4.1846 06 3.7826 06 3.4256 06 3.1056 06 2.0196 06	2.5735 06 2.3418 06 2.1318 06 1.9425 06 1.7708 05	1.615E 06 1.474E 06 1.347E 06 1.231E 06 1.231E 06	1.0306 06 9.4255 05 6.6325 05 7.9106 05 7.2526 05	6.6556 6.10566 6.10566 6.10566 0.05 0.05 0.05 0.05 0.05 0.05 0.05
CM	N(0) VCN3	7.6006 10 3.6076 10 2.1906 10 1.6666 10	1.0176 10 1.0176 10 7.4316 00 5.5776 09 4.2666 09	2.5906 09 2.09466 09 1.6276 09 1.6276 09 1.0466 09	0.434E CU 6.634E CU 5.530F 00 4.505E 00 4.505E 00 3.672E 00	2.4545 00 1.64545 00 1.1145 00 7.5575 07 7.5575 07	2.6006 07 2.4706 67 1.7006 37 1.1736 97 1.1736 97 8.1116 95	5.6246 06 3.9006 06 2.7226 06 1.9006 06 1.3296 06	9.3166 05 6.5446 05 4.6076 05 3.2506 05 2.2976 05 2.2976 05	1.627E 05 1.154E 05 8.203E 05 5.848E 04 5.848E 04
	N(02) /CN3	7.5006 10 2.3426 10 9.7916 09 4.7696 09	2.541E 09 1.432E 09 0.404E 00 5.069E 00 3.122F 00	1.9556 00 1.9556 00 1.2406 00 7.9456 07 5.1406 07 3.3466 07	2.1958 07 1.4468 07 9.5728 06 6.3638 06 6.3638 06	1.906E 06 6.650E 05 3.960E 05 3.960E 05 1.826E 05 0.460E 05	4.175E 04 1.968E 04 9.327E 03 4.4423 03 2.1266 03	1.0226 03 4.9306 02 2.3956 02 2.3956 02 1.1666 02 5.7145 01	2.809E 01 1.336E 01 6.570E 00 3.4192 00 1.708E 00	8.5092-01 4.3166-01 2.1026-01 1.1086-01 1.1086-01 5.6436-02
	N (N2) /CN3	4.000E 11 1.394E 11 6.350E 10 3.341E 10	1.907E 10 1.147E 10 7.153E 09 4.577E 09 2.935E 09	1.976E 09 1.324E 09 5.954E 08 6.105E 08 4.199E 08	2.0910 00 2.0052 00 1.3955 00 1.3955 08 9.7600 07 6.0436 07	3.3926 07 1.6976 07 0.5606 06 0.3566 06 2.2196 06 2.2196 06	1.192E 06 6.172E 05 3.205E 05 1.676E 05 1.676E 05	4.630E 04 2.446E 04 1.300E 04 6.925E 03 5.725E 03 3.704E 03	1.9896 03 1.0726 03 5.7356 02 5.1466 02 5.1466 02 1.7136 02	9.365E 01 5.137E 04 2.827E 01 1.561E 01 8.650E 00
385 ⁰ K	NEAN NOL NT	27.01 26.34 25.72 25.12	22.23.53 22.33.53 22.34.53 22.45 2.45	21.63 21.10 20.59 20.11 20.11	19,24 10,06 16,50 16,19 17,59	14 5 5 5 5 5 5 5 5 5 5 5 5 5	122 122 122 122 122 122 122 122 122 122	13,39 12,75 112,05 11,27 10,47	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	小学的 名 2013年 2015 2015 2015 2015 2015 2015 2015 2015
T (4) =	SCALE НТ КМ	11.2 15.8 19.2 22.1	260 260 200 200 200 200 200 200 200 200	40.00 40.00 40.00 40.00 40 40 40 40 40 40 40 40 40 40 40 40 4	のしょうで、 のしょう。 いっかいかん	イン く く く く く く く く し し し し し し し し し し し し し	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ゆ う う う う う う う う う う う う う う う う う う う	95.6 102.6 122.7 122.9 132.9 132.8 132.8	168°2 160°5 172,7 104,2 194,2
1318 ° _K	PRESSURE DYNE/CH2	2.7226-02 1.3056-02 7.3736-03 4.5436-03	2.9556-03 1.9556-03 1.3076-03 1.3076-03 9.0556-05 7.1356-05	5.2498-04 3.9156-04 2.9566-04 2.9566-04 2.9566-04 2.2566-04	1.3516-05 1.0598-05 8.3418-05 6.6181-05 5.2898-05 5.2898-05	3.6098-05 2.2369-05 1.4508-05 1.0048-05 6.8378-06	4.8410-00 3.5705-00 2.3726-00 1.6556-06 1.2186-06	5,5056-07 6,6165-07 4,5995-07 3,6486-07 3,6486-07 3,0151-07	2.6152-07 1.9696-07 1.6366-07 1.3896-07 1.2896-07	1.0276+07 9.0250+08 8.0046+06 7.1560+06 6.4398+08
T(14) =	DENS LTY GM/CH3	2.490E-11 8.779E-12 4.065E-12 2.202E-12	L.2976-L2 0.0976-L3 5.2602-13 3.5306-13 2.4366-13 2.4366-13	1.7136-13 1.2276-13 0.9206-14 6.5776-14 4.9106-14	3. 7065~14 2. 6265~14 2. 175F~14 1. 6886~14 1. 3156~14	6,2236-15 5,2416-15 3,4010-15 2,2398-15 1,4996-15	1.031E-15 7.013E-16 4.619C-16 3.3246-16 2.3146-16 2.3146-16	1.6236-16 1.1565-16 8.1876-17 5.8966-17 4.2976-17	3.1705-17 2.3725-17 1.8026-17 1.3926-17 1.0956-17	8.7662-18 3.1455-18 5.926-18 4.2955-18 4.2731-18
~	TENP K	828 828 828 828	672 739 762 701	797 810 821 831 637	4400 4400 4500 4500 4500 4500 4500 4500	696 600 876 876 876 876 876 876	9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 5 5 8 8 8 8 8 8 8 8 8 8 9 8 8 8 9 8 8 8	00000000000000000000000000000000000000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
= NUOH	ALT Kn	120 130 150	002 1120 1202	210 220 250 250 250	260 270 260 260 260	00000000000000000000000000000000000000	▼ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	669600 000000	620 620 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 - 2 2 - 2 2 2 - 2 2 2 2 - 2 2 2 - 2 2 2 2 - 2 2 2 2

		60000 60000	10000	9 9 9 9 9 9 9 9 9 9 9 9 9	00000	60000	40	4 4 4 4 4 0 0 0 0 0	00000 00000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	N(A) /CK3	4.500E 1.135E 3.957E 1.636E	7.479E 3.651E 1.866E 9.668E 5.3568	2.9686 1.6726 9.5516 5.5196 5.5196 3.2206	1.09%E 1.1226 6.6926 4.012E 2.4166	8.8735 3.3045 1.2445 4.7345 1.0165	N (II) /CM3 1.651E	1.613E 1.577E 1.541E 1.541E 1.473E	1.441E 1.409E 1.379E 1.349E 1.349E 1.349E	1.2916 1.2646 1.2846 1.2376 1.2376 1.2116 1.1866
		0.01 0.02 0.02	日日1111日 10000 11111日 111111	пеппп 00000 00000	000000 00000 00000	西日日日 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000 00000 00000	៣៣៣៣៣ ០០០០ ០០០០ ០០០០ ០០០០	៣៣៣៣៣៣ ០០០០០ ០០០០០០ ០០០០០	ក្លាក់កំកំក ០០០០០០ ៧ <i>៧៧៧៧</i>
lel 4	N CHI	2.4001 1.8276 1.5146 1.3146	1.171 1.0601 9.7030 8.9520	7.746 7.240 6.801 6.397 6.030	5.692 5.092 5.576 5.5776 5.5776 5.576 5.5776 5.57777 5.57777 5.57777 5.57777 5.577777 5.577777 5.577777777	4. 125 3. 727 3. 373 3. 373 3. 058 2. 775	2.531 2.302 2.096 1.909 1.741	1.508 1.508 1.324 1.2106	1.012 9.264 8.435 7.174 7.174	6.533 6.000 5.509 7.609 6.000 7.609 6.000
Moó		01000	04 04 04 04 04 04 04 04 04 04 04 04 04 0	60000	00000 00000	80 80 01 01 01	07 07 07 05	00000 00000000000000000000000000000000	00000 00000 00000	00 00 00 00 00 00 00 00 00 00 00 00 00
	N(O) /CH3	7.600E 3.723E 2.213E 1.457E	1.0186 7.3946 5.5106 4.1846 3.2236	2.511E 1.974E 1.563E 1.566E 1.976E	0.024E 6.4775 5.2466 4.260E 3.4676	2.312E 1.551E 1.057E 7.096E 4.828E	3.368E 2.310E 1.589E 1.096E 7.579E	5.253E 3.649E 2.541E 1.773E 1.240E	8.6936 6.1066 4.2976 3.0316 2.1426	1.517E 1.076E 7.650E 5.449E 3.889E
	_	10 10 09 09	6 0 0 0 0 0 0 0 0 0 0	00 00 01 00 01	000 000 000 000 000	00000 00000	0000 0000	00000	01 00 00 00 00	-01
	N(02 /CH3	7.500E 2.357E 9.810E 4.732E	2.4916 1.3876 8.0346 4.7906 2.9206	1.8126 1.1506 7.2566 3.0236	1.973E 1.295E 8.547E 5.66E 3.771E	1.688E 7.661E 3.452E 1.609E 7.455E	3.6516 1.7206 8.1456 3.8776 1.8556	8.9146 4.3046 2.0886 1.0176	2.444 1.2068 5.9758 2.9758 1.4858	7.445E 3.7445E 1.8946E 9.6126
	-	1129	. 00000	66000 00000	008000	07 06 06	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000 00000	00000 00000	
	N (NZ V CH3	4.000E 1.404E 6.384E 3.328E	1.8795 1.1105 6.8945 4.3655 2.8215	1.8520 8.2320 8.2320 8.2320 8.2320 3.85130 3.8350	2.6360 1.8226 0.8225 0.8225 0.8225 0.8225 0.8225 0.1730	3.0510 1.5230 7.6690 3.8906	1.0618 5.4850 2.0508 1.4888 7.8018	4.1071 2.1711 1.1521 6.1371 3.2811 3.2811	1.761 9.487 5.129 2.783 1.515	8.280 4.5540 2.498 1.379 7.639
885 ^o K	MEAN MOL HT	27.01 26.34 25.71 25.09	24.47 23.86 23.26 22.66 22.08	21.52 20.52 20.47 19.55 19.55	19.13 16.75 18.40 18.09 17.79	17.29 16.66 16.49 16.49 15.65	15.54 15.19 14.01 14.31 13.86	13.28 12.62 11.90 11.12 10.31	9.50 8.71 7.97 7.29 6.70	6.18 5.34 5.038 6.08 86
T' (4) =	SCALE HT KH	11.2 15.6 18.9 21.6	23•9 26•0 27•9 29°7	33.0 34.6 37.6 37.6 38.9	40°2 41°5 443°8 443°8	₹ 2000 2000 2000 2000 2000 2000 2000 20	54.6 56.2 58.1 60.3	66.0 69.9 74.6 80.3 87.1	95.1 134.3 114.7 126.0 138.1	150.5 162.8 174.8 186.2 196.6
×	SSURE IE/CH2	26-02 96-02 16-03 76-03	96-03 56-03 26-03 36-03	76-05 36-05 86-05 06-05	26-04 16-05 116-05 126-05 136-05	006-05 56-05 66-05 26-06 26-06	836-06 505-06 276-06 386-06	096-07 536-07 576-07 556-07	166-07 346-07 366-07 366-07	036-08 956-08 136-08 746-08 006-08
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31.8 °K	PRESSURE DYNE/CA2	2.1226-02	1.2926-02	7.180E-03 4.349E-03	C0-3785 C		1.9286-02	9.079F+06	6.5565-04		5. 826E- UV	0-3853 C		1.6276-04		L. 2730-04	1.004.6-04	7.9756-05	6,3176-05	5.1286-05	3745646	20-10-20 20-20-00	50-3615-1	1.0005-05	7.1546-06		50-1221-00	3.6225-90	2.555555000	1.3506-06		1,0035-06	7.5156-07	5,7151-01	A. 4180-01		2.7316-07	2.2665-07	1.3789-07	1.5528-07	1.352107	70-3171 1	10-110-1	6 6655-40U	
1 = (V()+	DENS ITY GH/CH3	0.4905-11	8.9046-12	4.1136-12 2.1846-12		L. 20.51-12			2.2438-13		1.5671-15	L.116E-13	6.1145-14 2 - 225 - 14	5.501E-15		3,3946-14	2.6505-14	2.0116-14	1.5706-14	1.2566-14	2 620Cm16			2.2256-15	1.5070-15		1.04%5-15	7.2445-16	5.0438-16	5,5555-16 2,5965-16		1.7745-16	1.271E-16	9.1741-17	6.00)[~]7	11.1276.16	3, 6526-17	2.748-17	2,0955-17	1.6215-17	1.2775-17	F 1 . U.S. F.C	1 * 0 * 0 * 0 * 1 * 1		
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	N (H2) / CH3	4.000E 11 1.4005 11 6.3056 10 3.2236 10	1.804E L9 1.081E L9 6.832E 09 6.455E 09 3.053E 09	2.1256 09 1.5096 09 1.0096 09 7.9406 00 5.6026 00	4,3655 00 3,2535 00 2,4395 05 1,4395 08 1,4435 08 1,4435 08	C. 504F 07 5,0655 07 5,050E 07 1,049E 07 1,127E 07	7.012E 04 6.320E 06 2.672E 06 1.655E 06 1.034E 06	6.460E 05 4.050E 05 2.547E 05 1.696E 05 1.016E 05	6,440E 04 4,095E 04 2,631E 04 1,6695 04 1,070E 04	6.873E 03 4.427E 03 2.859E 03 1.851E 33 1.202E 03
Res or	REAN NOL LT	27.01 26.34 25.70 25.10	25-50 23-66 223-66 223-66 223-66 223-66 223-66 223-66 223-66 233-76 233-	22.03 21.59 21.16 20.78 20.41	20,05 19,72 19,50 19,50 19,52	10°22 017°07 017°07 017°07 007 007 007 007 007	16.57 16.57 16.03 19.63 19.63 19.63 19.63	11.22 55.23 14.75 14.75	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	11.29 10.73 9.59 9.05
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L = (VU)	DENSITY DENSITY DENSITY	2.4906-11 8.8716-12 4.0556-12	2.1000-12 1.2268-12 7.6086-13 6.96.6-13 3.4186-13 2.4196-13	1.7636~13 1.3146~13 9.9815~13 7036~14 6.6266~14	4, 7696~14 3, 8126414 3, 8126414 2, 5006414 2, 66/72414	1.3976-14 9.7316-15 6.5930-15 4.9526-15 3.5966-15	2.665E~15 1.974E~15 1.472E~15 1.472E~15 1.105E~15 8.346E~16	6.3348-16 4.8306-16 3.6995-16 2.8445-16 2.1986-10 2.1986-10	1. 70%6-16 1. 3286-16 1. 0%0%-16 8. 1766 -17 2. 4528-17	5. 1396-17 5. 1056-17 3. 3026-17 2. 6749-17 2. 4749-17
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885 ⁰ K	MEAN Mol WT	27.01 26.34 25.73 25.16	24.63 24.12 23.64 23.64 23.17 23.17 23.17	22.30 21.90 21.50 21.13 20.77	20.42 20.10 19.79 19.21	18.70 18.24 17.63 17.47 17.47	16.07 16.01 16.37 16.14 15.91	15.68 15.68 15.21 14.95 14.67	14.37 14.04 13.68 13.29 12.86	12.41 11.93 11.43 10.91 10.39
T (4) =	SCALE HT KM	11.2 15.8 23.6 8	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	55445 5445 5445 5445 5445 5445 5445 54	53.3 55.1 56.7 59.3	62.5 65.0 67.3 71.3 72.3	73.2 76.6 70.2 79.2	8 8 8 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8	91.7 94.5 97.5 101.0	109.4 114.4 120.1 126.5 133.7
1318 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3046-02 7.4326-03	3.175E-03 2.257E-03 1.663E-03 1.259E-03 9.731E-04	7.640E-04 6.094E-04 4.911E-04 3.995E-04 3.278E-04	2.7085-04 2.2526-04 1.8836-04 1.5826-04 1.3366-04	9.629E-05 7.036E-05 5.200E-05 3.880E-05 3.920E-05 2.920E-05	2.2326-05 1.7036-05 1.3086-05 1.3086-05 1.0106-05 7.8446-06	6.1225-06 4.8035-06 3.7875-06 3.0025-06 3.0025-06	1.918E-06 1.547E-06 1.256E-06 1.027E-06 8.456E-07	7.015E-07 5.866E-07 4.946E-07 4.205E-07 3.696E-07
T(14) =	DENS I TY GM/CM3	2.4936-11 8.7676-12 3.9996-12 2.1116-12	1.2366-12 7.8066-13 5.2176-13 3.6406-13 2.6266-13	1.9456-13 1.4726-13 1.1346-13 8.8656-14 7.0186-14	5.615E-14 4.536E-14 3.694E-14 3.030E-14 2.502E-14	1.735E-14 1.226E-14 8.806E-15 6.411E-15 4.721E-15	3.535E-15 2.652E-15 2.004E-15 1.524E-15 1.166E-15	8.966E-16 6.927E-16 5.374E-16 4.186E-16 3.274E-16	2.570E-16 2.025E-16 1.601E-16 1.271E-16 1.013E-16	8.1085-17 6.5185-17 5.2655-17 4.2765-17 3.6667-17
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Moc	R (11) 7 Ci 3	7.6005 10 3.6225 10 2.0005 10 1.3495 10	9.3526 09 6.0456 09 5.2126 09 6.0076 09 3.2766 09	2.672E 09 2.206E 09 1.645E 69 1.554E 69 1.554E 09 1.310E 09	1.1245 09 9.6305 00 8.2935 03 7.1595 03 6.1595 05	4.677E 09 3.555E 05 2.717E 06 2.717E 06 2.0055E 00 1.607E 00	1.240E 00 9.6756 07 7.5156 07 5.0496 07 4.5616 07	3.563E 07 2.768E 07 2.106E 07 1.716E 07 1.349E 07	1.0628 07 8.3776 06 6.6156 06 5.2316 06 4.1436 06	3.285E 05 2.609E 05 2.074E 06 1.651E 06 1.316E 06
	N (02) 7 C H 3	7.5006 10 2.3126 10 9.5526 09 4.6516 09	2.5346 09 1.4966 09 9.3535 00 6.1046 00 4.1156 03	2.0046 00 2.0046 00 1.4346 00 1.0396 00 7.6076 00	5.6106 07 4.1756 07 3.1226 07 2.3076 07 2.3076 07 1.7716 07	1.020E 07 5.930E 06 9.629E 06 9.629E 06 2.064E 06 1.229E 06	7.445E 05 4.475E 05 4.479E 05 2.706E 05 1.641E 05 9.900E 04	6.1005 04 3.7375 04 2.2975 04 1.4165 04 8.7575 03	5.4316 03 3.3786 03 2.1076 03 1.3186 03 1.3186 03 8.2676 02	5.1996 02 3.2796 02 2.0736 02 1.3146 02 0.3536 01
	N CH2) Z CH3	4.0005 11 1.3746 11 6.1736 10 3.2226 10	1.864E 10 1.161E 10 7.622E 09 5.207E 09 3.665E 09	2.639E 09 1.935E 09 1.435E 09 1.435E 09 1.003E 09 0.2215 00	6.2915 00 4.6465 03 3.7525 08 2.9155 03 2.9155 03 2.2005 00	1.4066 00 0.7368 07 5.4758 07 3.4758 07 3.4598 07 2.1968 07	1.415E 07 9.067E 06 5.831E 06 3.763E 06 2.436E 06 2.436E 06	1.581E 06 1.030E 06 6.7242 05 4.402E 05 2.890E 05	1.902E 05 1.255E 05 8.300E 04 5.504E 04 3.658E 04	2.437E 04 1.628E 04 1.009E 04 7.310E 03 4.915E 03
365 ⁰ 4	tta an Méanart	27.01 26.35 25.76 25.21	24.70 24.22 23.76 23.31 22.59	22.40 22.66 21.70 21.33 20.97	20.63 20.31 20.60 19.70 19.42	18.69 16.42 13.64 17.31	17.02 16.75 16.50 16.27 16.04	15.82 15.60 15.37 15.13 14.87	14.59 14.29 13.90 13.60	12.79 12.34 11.87 11.38 10.68
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3) 9 °K	PRESSURE DYRE/CR2	2.7226-02 1.3166-02 7.6026-03 4.8745-03	3.3476-05 2.4086-03 1.7986-03 1.3696-03 1.3696-03 1.0666-03	8. 4276-04 6. 7250-04 5. 4850-04 4. 4628-04 4. 4628-04	3.043E-04 2.537E-04 2.126E-04 1.750E-04 1.514E-04	1.0956-04 5.0276-04 5.9590-05 5.4536-05 4.4536-05	2.5745-05 1.9716-05 1.5186-05 1.1766-05 9.1546-05	7.163E-06 5.633E-06 4.452E-06 3.536E-06 3.823E-06	2.2666-06 1.0296-06 1.4856-06 1.2146-06 9.9856-07	8.271E-07 6.902E-07 5.803E-07 4.917E-07 4.200E-07
T(14) = 1	DEAS LTY CAVCA3	2.499E-11 8.655E-12 3.951E-12 2.115E-12	1.2556-12 0.0396~13 5.4626+13 3.8610+13 2.7996~13	2,0926-13 1,5966-13 1,2376-13 9,7286-14 7,7392-14	6.2198-14 5.0428-14 4.1198-14 3.3008-14 2.0058-14	1.9536-14 1.9536-14 9.9705-15 7.2026-15 7.2026-15	4.0336-15 3.0346-15 2.2996-15 1.7546-15 1.3466-15	1.0366-15 0.0436-16 6.2606-16 4.8926-16 4.8926-16	3.0226-16 2.3086-16 1.8946-16 1.5076-16 1.5076-16	9.658E-17 7.777E-17 6.2895E-17 5.109E-17 4.170E-17
14	TEAP K	6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	792 673 941 1046 1046	7211 2211 2211 2211	1214 1229 1251 1252 1263	1276 1266 1292 1297	1306 1300 1313 1311	1313 1315 1315 1315 1316	1316 1316 1317 1317 1317	1317 1317 1317 1318 1318
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	(D)N	/CH3	7.6305	2.0796	5740	9.430E	30%6°3	4.180E	3.3585	2 . 76.26	2.2675	1.0935	1.5936	1.5420	1-1465	9.8195	5°624E	1-250E		4.684E	3.531E	2.675E	2.0356	1•55¢E	1.1955	9.1015	7.0655	30000	4.210E	3,2595	2.527E	1.963E	1.527E	1.190E	9.287E	7.259E	5.682E	4.454E (3.497E (2.7495 (2.164E (1.706E C	1.947E 0	
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	NC DZ		7.5005 2.2946	9.5556	4	2.5936	1.9926	6.335	4.272E	2.9695	2.0736	1.4705	1.067E		5. 700E	4.210E	3. LZGE	L.746F	; ; ;	9.037E	5.657E	3.2646	10000	7•7C	6.537E	3-805E	2-306E	1.373E	0+ 2U3E	4.910E	2.959E	1.706E	1.0825	0. 20 YE	4.002E	2.446E (1.499E	2. 2.2.4 C	2. 680E	3.511E (2.177E	1.353E C	5.270F 0	•
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	N (N2 ZCH3		4.000E 1.362E	6.162E 3.253E		1.9016	7.8626	5.3046	3.1435	2.730E	1.9905	1.402E	1.111E 8.3996		6.395E	1770 °	2,9165	2.2615		1.372E		2.22555	2.0146	1 * • •	1.277E	5.049E	0.00 0.00 0.00 0.00	0.000 0.000 0.000		1.316E	8.432E	0.00 0.00 0.00 0.00 0.00	2.257F		1.462E (9.501E (0.168E			1.736E C	1.142E 0		3.299E 0	
885 ⁰ K	ME AN MOL WT		26.36	25.77 25.24	C# 76	26.25	23.79	23,35	PC + 3C	22.50	22.10	21.12	20.97		20.62	19.05	19.66	19.37		18.84	17.02	17.56	17.23		16.93	16.66	10.41	15.95		15.72	5 5 5 1	14.00	14.70		14.40	19.00	13.30	12.87		12.41	26.11	0.89	10.36	
T (4) =	SCALE HT KN		16.4	24.9 24.9	2.0.2	32.2	35.4	30.2 40.8		43°1	e.	5 ° C S	51.0	i i	7.20	55.8	57.2	52.6		2.10	65.8	67.9	5.20	;	71.7		76.7	70.3		00.00	21•12 53 5		0.10		0.04	92. B	2.06	103.1		107.6	118.3	124.7	131.9	
1318 ⁰ K	PRESSURE DYNE/CH2	2.7226-02	1.3236-02	4+973E-03	3.425E-03	2.4676-03	1.035E-03	1.370E-03		C.553E-04	6.822E-04	4.6695-04	3.6616-04	1010	2.5056-04	2.000E-04	1.7495-04	1.472E-04		7.6516-05	5.6176-05	4.165E-05	3.115E-05		2.3096-05 1.7956-05	1.3716-05	1.054E-05	8.1406-06		6.322E-06	3.0745-04	3.057E-06	2.426E-06		1 - 5575-06	1.2596-06	1.025E-06	8.411E-07		6.956E-07 6.000E-07	4.877E-07	4.136E-07	3.539E-07	
T(14) =	DENS I TY GM/C/13	2.4906-11	8.500E-12 3.9526-12	2.1336-12	1.2786-12	8.2365-13	5,5996-13	2.0095-13		2.1596-13 1 6666-13	1.2726-13	9.978E-14	7.9136-14	6.3366-18	5.1166-14	4.1636-14	3.4096-14	2.U09E-14	1.9305-14	·1.362E-14	9.7196-15	7.030E-15	5.1445-15	3. 8755-16	2.852F-15	2.1436-15	1.621E-15	1.2346-15		9+4396-10 7.2576-16	5.6046-16	4.345E-16	3.3836-16	2.6665-16	2:0745-16	1.634E-16	1.292E-16	1.025E-16		8.1765-17 6.5495-17	5.2716-17	4.204E-17	3.469E-17	
. 16	TENP K	355	4 89 605	706	191	876	156	1036		1102	1120	1149	1167	1182	1194	1204	1213	C777	1232	1240	1247	1251	1255	1259	1261	1263	1264	1265	1365	1267	1268	1260	1268	6921	1269	1269	1275	1273		1275	1273	1272	CZ Z I	
*VNOH	ALT KH	120	130 140	051	160	170		200	010	220	230	240	250	260	270	200	000		320	340	360	380	004	420	055	460	001	200	000	0.40	60	60	00	20	05	60	03	00	00	0.4	63	60 00	20	

	R (A) ZGR3	4.5006 09 1.1096 09 1.9356 05 2.9356 06	8,333 7,4557 7,4557 7,4557 7,45577 7,4557777777777	5.537E 04 3.505C 04 2.4555 04 2.4555 04 4.4555 04 9.6205 05	6,3705 05 4,2405 05 4,2405 05 2,5440 05 1,29156 05 1,2905 05	6.0108 2.8108 2.8108 2.8328 2.8328 2.8328 2.8328 2.8328 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.9538 2.0538 2.0538 2.0548 2.05568 2.05568 2.05568 2.05568 2.05568 2.05568 2.05568 2.05568 2	и (11) /смз 1.559е 04	1.5326 04 1.5055 04 1.4795 04 1.4536 04 1.4536 04 1.4536 04	1.404E 04 1.3804 04 1.357E 04 1.3345 04 1.312E 04	1.2916 04 1.2706 04 1.2496 04 1.2296 04 1.2296 04 1.22996 04
3el 4	10H2) 70H3	2.4006 07 1.7768 07 1.4428 07 1.2328 07	1,0876 07 9,8025 06 8,9705 06 8,3143 05 7,7435 05	7.2946 05 6.866 05 6.5256 05 6.2256 05 6.2026 05 5.9068 05	5.6398 06 5.3916 06 5.1616 06 4.9451 06 4.9451 06	4.3748 06 4.0426 06 3.7428 06 3.7428 06 3.6696 06 3.2196 05	2, 9936 06 2, 7826 06 2, 5896 06 2, 5106 06 2, 4106 06 2, 2456 06	2.092E 06 1.951E 06 1.820E 06 1.820E 06 1.698E 06 1.586E 06	1.4826 06 1.3856 06 1.2956 06 1.2956 06 1.2116 06 1.1335 06	1.0615 06 9.9345 05 9.3078 05 8.7228 05 8.1778 05 8.1778 05
MO	k (0) /cn3	7.400E 10 3.577E 10 2.053E 10 1.363E 10	9.603E 09 7.100E 09 5.447E 09 4.201E 09 3.427E 09	2.7836 09 2.2656 09 1.8926 09 1.8786 09 1.5786 09 1.3236 09	1.1156 09 9.4266 00 7.9976 00 6.8026 00 6.8026 00 5.7995 00	4.2396 08 3.1166 08 3.1166 08 2.3046 06 1.7106 08 1.2736 08	9.556E 07 7.156E 07 5.371E 07 4.041E 07 3.042E 07	2.300E 07 1.741E 07 1.320E 07 1.320E 07 1.032E 07 7.625E 06	5.81,1E 06 4.436E 06 3.392E 06 2.537E 06 1.592E 06	1.531E 06 1.178E 06 9.075E 05 7.004E 05 5.413E 05
	N (02) / CH3	7.5006 10 2.2916 10 5.5608 09 4.7546 09	2.6266 09 1.5508 09 9.7276 00 6.2946 00 4.1006 00	2.6448 08 1.9626 08 1.3726 08 9.6676 07 6.8996 07	6.9486 07 3.5696 07 3.5696 07 2.56976 07 1.8636 07 1.3766 07	7.6126 06 6.0336 05 2.2126 05 2.2226 05 1.2226 06 1.2226 05 6.7056 05	3.6395 05 2.1565 05 1.2166 05 6.6886 05 6.6886 04 3.9176 04	2.2366 04 1.2016 04 7.3676 03 4.2516 03 4.2516 03 2.4616 03	1.4305 03 8.3345 02 4.83345 02 4.85355 02 2.8595 02 1.6525 02	9. 9305 01 5. 8035 01 3. 4925 01 2. 0805 01 1. 2438 01
	N (N2) /CN3	4.000E 11 1.360E 11 6.170E 10 3.284E 10	1.9276 10 1.2088 10 7.9378 09 5.3916 09 3.7556 09	2.6666 09 1.9216 09 1.4016 09 1.4016 09 1.0316 09 7.6476 08	5.7085 08 4.2835 09 3.2295 00 2.4425 00 2.4425 00 1.8555 00	1.0786 08 6.3226 01 3.7356 07 2.2266 07 1.3266 07	8.050E 06 4.856E 06 2.941E 06 1.768E 06 1.090E 06	6.6748 05 4.0988 05 2.5248 05 1.5598 05 1.5598 05 9.6638 04	6.0066 04 3.7446 04 2.3406 04 1.4676 04 1.4676 04 9.2206 03	5.0116 03 3.6726 03 2.3276 03 2.4756 03 1.4756 03 9.4176 02
BB5 ^o K	NDL NT NDL NT	27.01 26.36 25.77 25.23	24.72 24.72 23.74 23.26 22.02	22.38 21.94 21.53 21.12 20.74	20.36 20.01 19.67 19.36 19.36 19.66	16.51 17.61 17.61 16.92 16.92	16.62 16.62 15.85 15.85 16 16 16 16 16	15.34 15.07 15.07 14.43 14.07	13.66 13.21 12.73 12.21 12.21 11.66	11.08 10.49 9.89 0.90 0.73
T (4) =	SCALE HT KN	11.2 16.4 20.4 24.6	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	00000 000 00 00 00 00 00 00 00 00 00 00	000000 000 000 000 00 00 00 00 00 00 00	57.0 55.2 61.3 63.1 64.9	66.6 66.2 65.3 71.4 73.0	74.7 76.6 78.6 81.0 83.6	00.00 90.00 90.00 90.00 90.00 90.00	109.9 116.9 122.6 133.3 142.8
1318 ⁰ K	PRESSURE DYNEZCH2	2.7226-02 1.3236-02 7.7116-03 4.9606-03	3.3946-03 2.4216-03 1.7006-03 1.3306-03 1.8306-03 1.0356-03	7.9598-04 6.2576-04 6.9706-04 8.9706-04 3.9036-04 3.9036-04	2,6166-04 2,1416-04 1,7616-06 1,6576-06 1,6576-06	8.45964-05 8.49964-05 8.40964-05 4.40964-05 3.41086-05 3.41086-05 3.41086-05 3.41086-05 3.41086-05 3.41086-05	1.6976-05 1.2626-05 9.4436-06 7.1136-06 5.3926-06	4.1136-06 3.1586-06 2.4406-06 1.8996-06 1.4896-06	1.1776-06 9.384E-07 7.550E-07 7.550E-07 6.133E-07 5.033E-07	4.1746-07 3.4996-07 2.9646-07 2.5386-07 2.1956-07 2.1956-07
T(14) =	DENS LTY GA/CH3	2.490E-11 8.557E-12 3.9526-12 2.1536-12	1.2966-12 0.3656-13 5.6726-13 3.9696-13 3.9696-13 2.0866-13	2.1346-13 1.6076-13 1.2296-13 9.5146-14 7.4476-14	5.835E-14 4.691E-14 3.765E-14 3.047E-14 2.480E-14 2.480E-14	1.670E-14 1.1466-14 8.060E-15 5.661E-15 4.0542-15	2.952E-15 2.156E-15 1.567E-15 1.176E-15 1.176E-15 8.766E-15	6.5716-16 4.9506-16 3.7476-16 2.8500-16 2.1776-16	1.6716-16 1.2886-16 9.9816-17 7.756-17 7.756-17 7.6.0906-17	4.7996-17 3.8076-17 3.0426-17 2.4496-17 2.4496-17 1.9876-17
16	TEHP K	355 603 603	877 878 878 878 878 878 878 878 878 878	1000 1067 1067 1067 1067	1089 1086 1106 1113	1120 1120 1139 1145	1152 1152 1152 1153	1155 1156 1157 1157	1158 1158 1158 1158 1158	1159 1159 1159 1159
= ЯООН	ALT KR	120 120 150	007 120 120 120 120 120 120 120 120 120 120	210 230 250 250	250 270 260 300	00000 8880 8887	5000 5000 5000 5000 5000	5 20 5 5 0 5 8 0 5	620 640 680 700	720 740 760 760

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<u>Model 5</u>

Properties of the Upper Atmosphere as Function.

of Height and Local Time for a Level of

Mean Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻⁷) scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 150 \times 10^{-22} \text{ W/m}^2$ c/s of the solar radiation at a wavelength of 10.7 cm.

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100700 00000 60000 00000 4 4 M M M 33 00000 **000**0000 4.500E 1.105E 3.999E 1.756E 8.6246 4.5486 2.5186 1.4426 1.4426 0.4766 84993 N(A) /CH3 5.0706 3.0096 1.9016 1.1026 7.4096 4.6756 2.9675 1.8926 1.2126 7.7936 3.2535 1.3735 5.8%66 2.5106 1.0056 9.114E 8.931E 8.754E 8.581E 8.413E N (H) /CM3 8.249E 8.090E 7.934E 7.763E 7.635E ш 7.491E 7.351E 7.214E 7.380E 6.950E .301 6 10010 99999 90000 10030 800 90 90 90 90 90 90 90 90 00000 5 N(HE) /CK3 20000 000000 000000 2.400E 1.763E 1.443E 1.246E 1.111E 1.0106 9.300E 8.642E 8.642E 7.596E 7.166E 6.779E 6.428E 6.105E 5.808E 5.532E 5.275E 5.033E 4.807E 4.391E 4.019E 3.684E 3.301E 3.106E 2.055E 2.627E 2.410E 2.220E 2.054E 1.894E 1.748E 1.614E 1.614E 1.491E 1.378E 1.2746 1.1796 1.0916 1.0156 9.3656 8.675E 8.675E 8.043E 7.461E 6.924E 6.429E Model 2020 60 60 60 60000 000000 10070 06 06 05 05 05 7.600E 3.541E 2.094E 1.395E 9.956E 7.421E 5.695E 4.461E 3.547E 02000 N(0) /CH3 2.0526 2.3136 1.0896 1.5516 1.2796 1.059E 8.793E 7.320E 6.100E 5.106E 3.586E 2.5326 1.796E 1.2786 9.125E 6.521E 4.680E 3.368E 2.429E 1.755E 1.271E 9.228E 6.711E 4.890E 3.570E 2.612E 1.914E 1.4J5E 1.034E 7.615E 5.621E 4.157E 3.379E 2.285E 1.698E 01000 800820 100100 00000 00000 00000 00000 00000 02002 N(02) /CH3 7.500E 2.277E 9.700E 4.891E 2.719E 1.600E 9.922E 6.305E 4.096E 2.706E 1.811E 1.224E 8.346E 5.729E 3.956E 2.745E 1.912E 1.337E 9.379E 4.652E 2.329E 1.175E 5.963E 3.045E 1.556E 8.026E 4.158E 2.164E 1.131E 5.937E 3.126E 1.655E 8.790E 4.686E 2.508E 1.347E 7.263E 3.930E 2.134E 1.163E 6.359E 3.489E 1.921E 1.061E 996666 2222 800080 800080 800080 66666 01 01 01 00000 400000 02 02 02 N(N2) /CK3 1.996E 1.251E 8.146E 5.453E 3.725E 2.584E 1.814E 1.285E 9.178E 6.595E 0006 3516 2446 3746 4.764E 3.456E 2.517E 1.839E 1.348E 7.2005 3.9745 2.1025 1.2055 6.6075 3.7158 2.0808 1.1698 6.6008 3.7398 2.126E 1.213E 6.948E 3.992E 2.3u2E 1.331E 7.725E 4.497E 2.627E 1.539E 9.043E 5.330E 3.152E 1.869E 1.112E °_% NEAN IOL WT 27.01 26.36 25.79 25.25 24.72 24.20 23.69 23.18 23.18 22.19 21.72 21.26 21.26 20.81 20.39 9.96 19.95 19.91 18.91 8.04 7.56 6.79 6.47 6.18 5.93 5.61 5.32 6.99 4.24 4.24 3.78 3.28 2.71 979 2.13 1.44 0.76 9.36 8.69 8.06 7.47 6.94 6.47 в SCALE HT KH 14.2 16.6 20.8 24.2 27.1 29.5 33.6 35.6 37.1 30.7 41.6 43.0 45.4 45.6 49.1 49.1 49.1 (7 51.3 53.2 55.0 58.6 59.6 61.1 62.6 64.2 66.3 84.9 90.3 96.6 173.9 112.3 68.1 70.4 73.2 76.4 80.3 121.7 132.0 143.2 155.0 2.7226-02 1.3326-02 7.8056-03 5.0046-03 3.3066~03 2.3796-03 1.7166-03 1.2636-03 9.4576-04 PRESSURE DYNE/CH2 7.178E-04 5.513E-04 4.278E-04 3.351E-04 2.646E-04 2.104E-04 1.685E-04 1.357E-04 1.357E-04 1.100E-04 8.952E-04 6.013E-05 4.102E-05 2.835E-05 1.981E-05 1.398E-05 9.934E-06 7.132E-06 5.162E-06 3.766E-06 2.770E-06 2.056E-06 1.540E-06 1.165E-06 8.918E-07 6.908E-07 5.421E-07 4.314E-07 3.482E-07 2.851E-07 2.369E-07 2.369E-07 1.996E-07 1.705E-07 1.474E-07 1.289E-07 1.139E-07 ి 1460 Ц 2.490E-11 8.507E-12 4.002E-12 2.211E-12 DENSITY GN/CH3 2.1076-13 1.5576-13 1.1666-13 8.8436-14 6.7786-14 343E-12 672E-13 645E-13 066E-13 5.2456-14 4.0946-14 3.2216-14 2.5536-14 2.0366-14 1.319E-14 8.724E-15 5.870E-15 4.008E-15 2.771E-15 1.932E-15 1.361E-15 9.671E-16 6.917E-16 4.979E-16 3.605E-16 2.625E-16 1.923E-16 1.417E-16 1.417E-16 (14) 7.847E-17 5.904E-17 4.479E-17 3.43.E-17 2.653E-17 2.075E-17 1.642E-17 1.316E-17 1..69E-17 1..69E-17 B.798E-18 TE AP K 753 799 826 826 893 355 497 605 687 909 925 948 948 964 971 976 983 983 989 993 996 996 996 1001 1002 1002 1003 1004 1005 1005 1006 1006 1006 1006 1006 1006 0 HOUR= AL T Kh 50 20 160 190 200 210 220 230 250 260 270 280 280 300 320 340 360 400 4400 4400 4400 4400 4400 4400 500 580 580 580 580 620 640 680 700 7450

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	Model 5	NCHE) ZCH3	2.400E 0 1.775E 0	1.4576 0 1.2616 0	1.1256 0	1.022E 0 9.399E 00	8.120E 04			6.707E 06	6.424E 06 6.091E 04		5.704E 04 5.5000 04	5-2366 00	4.909E 06 4.757E 06		6.334E 06 3.0570 05	3.6106 06	3.3136 06 3.0376 06		Z-7856 06	2-3496 06	Z+163E 06	1.967E 06	1.8295 06	1.553F 06	1.432E 06	1.321E Jo	1.219E 06	1.125E C6	1.040E 66 9.6J9F 75	8.855E 05		7.637E 05	
		N (0) / CII3	7.600E 10 3.575E 10	2.120E 10 1.411E 10	1.0045 10 7.4415 00	5-6758 09	3.4865 09	2.783F 00	2.242E 09	1.019E 09	1.2166 09	1.0016.00	C.261E 00	6.8398 00 5.6768 00	4.721E 08	3.3000	2.296E 08	1-6136 00	0.0524 0.0526	5.7005.03	4.0645 07	2.901E 07	1.45BE 07		7.701F 06	5-557E 06	4.018E 06	2.741C UD	2.113E 06	1.2016 UV 1.1205 DA	8.176E 05	5.980E 05	4.381E 05	3.216E 05	2.365F A6
	(CO) H	VCH3	7.500E 10 2.293E 10 9.740F 09	4.875E 09	2.682E 09 1.567E 09	9.535E 00 5.977E 00	3.030F 00	2.4965 06	1.640E 00	7.411E 07	5.0285 0Y	3.432E 07	2.3565 07	1.124E 07	7.806E 06	3.790E 06	1.667E 06	9.250E 05 4.615E 05	2.317E 05	1.164E 05	5.506E 04	3-0115 04 1.542E 04	7.933E 03	4.099E 03	2.126E 03	1.108E 03 5.702E 03	3.041E 02		1.603E 02 8.481E 01	4.504E 01	2.401E 01	1.6644 01	6-896E 00	3.716E 00 2.600E 00	00 3KnA+3
<u>,</u> x	N (N2)	/CM3	1.000E 11 1.361E 11 6.283E 10	3.375£ 10	1.979E 10 1.227E 10	5.225E 09	90324°C	2.417E 09	1.1756 09	8.302E 00	a•∿04E 08	4.222E 06	2.1895 09 2.1895 00	1.5056 08	1.151E 08	6.122E 07	3.2056 07	9.6566 06	2.231E 06	2.809E 06	8.841F 06	4.921E 05	6+(49E US	1.542E 05	U.679E 04	2.7796 04	1.581E 04	9.073F 03	5.1676 03	2.9696 03	4.1415 US 9.8956 D2	1	5.740E 02 3.3606 02	1.950E 02	
o 619 =	REAN		26.36	22.62	24.13	23.07		22,05	21.09	20.64		19.60	19.00	16.73		17.67	17.01	16.66		16.05	15.47	15.15		14°41	13.47	12.91	12.29	11.63	10.93	9.50	0.30		8.14 7.53	6.58	1. 40
3. (·!)	E SCALE	2 11 2	20.5	26.3	20.7	32.7		37.7	39.3	5.0.5 5.2.1		1 0 ° 7 ° 7 ° 0 °	0.94	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	50, 5	2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	54.1	2.55 2.55		60.1	61°7	63.3 65.3		67.5	73.1	76.7		86.2	92°2	107.4	116.6	0 761	137.9	149.6	6.101
= 1460 ⁰ K	Y PRESSUR DYNEZCH	2.722E-0	1 - 3266+0 7 - 70%6+0 4 - 690(0	3.2766-03	2.2776-03 1.6276-03	4.157E-03 6.012E-04	6.639F-N6	5.0655-04	3.043F-04	2-3996-04	1-8935-06	1.509664	1.211E-04 9.7726-06	7.9276-05	5.2096-05	3.5646-05	2.4625-05	1-2005-05	8.675F-PC	6.052E-06	4.3566-06 3.1646-06	2.3206-06	1 71/5 2.1	1.203E-06	9.701E-07	5.7636-07		4.536E-07 3.626E-07	2.9406-07	2-423E-07	۲•026E-07	1.7196-07	1.4776-07	L. 1306-07	
T (14)	DENSIT 6H/CH3	2.490E-1)	2.2156-12 2.2156-12	1.3356~12 8.6666.12	5.7046-13 2.9206-13	2.7756-13	1-9995-13	1 • 465E - 13 1 • 0905 + 13	6.2066-14	6.250E-14	4.810E-14	3.735E-14 2.6265-14	2.3086-14	1.6345-14	1-1005-14	7.7516-15	3.5192-15	2-4166-15	1.6755-15	1.174E-15 A. 2276-16	5.8926-16	4.216E-16	3. J356-16	2.1995-16	1.176F-16	8.685E-17	6.4665.72	4.855E-17	3.680E-17	2.0195-17 2.1845-17		· 714E-17	362E-17 .098F-17	• 979E-18	1110 10
	TEM	355 491	593 669	728	000000000000000000000000000000000000000	062	100	010	920	054	937	946 946	526	926	926	125	516	926	116	976	67.6	C36	C0 6	080 189	106	186	196	902	982 982	982		982 I	982 I	902 8	0.0.7
	ALT KH	120	140	170	1 90	200	210	230	250	2	260	280	290	000	320 340	360	360	00%	420 640	460	680 600	202	520	540 560	5 40	600	620	640 640	660 680	100		145	65	00	2

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	N (A) /CH3	4.500E 1.1176 3.9936 1.7146	8,187E 4,109E 2,248E 1,2496 7,130E	4.156E 2.463E 1.400E 0.993E 5.517E	3.4126 2.1256 1.3316 8.3356 5.3056 5.3056	2.140E 8.813E 3.6556E 1.5256 6.5556	N (H) /CM3 9.300E	9.107E 8.919E 8.737E 8.560E 8.3586	8.220E 8.057E 7.898E 7.743E 7.592E	7.445E 7.302E 7.162E 7.026E 6.893E
el 5	N (HE) /CM3	2.4006 07 1.7876 07 1.4716 07 1.4716 07	1.1356 07 1.0296 07 9.4506 06 8.7496 06 8.1516 06	7.630E 06 7.171E 06 6.759E 06 6.307E 06 6.049E 06	5.737E 06 5.4502 06 5.183E 06 4.935E 06 4.703E 06	4.2796 06 3.5036 06 3.5676 06 3.2646 06 2.9906 06	2.741E 06 2.516E 06 2.311E 06 2.124E J6 1.953E 06	1.797E 36 1.655E 36 1.525E 36 1.405E 06 1.296E 36	1.1966 06 1.1966 06 1.0226 96 9.4216 05 8.7096 05	8.0558 05 7.4538 05 6.8998 05 6.3908 05 5.928 05
Mođ	N(0) /CH3	7.6006 10 3.6096 10 2.1426 10 1.4226 10	1.007E 10 7.420E 09 5.624E 09 4.340E 09 3.413E 09	2.711E 09 2.173E 09 1.755E 09 1.426E 09 1.165E 09	9.553E 08 7.666E 06 6.4966E 06 5.380E 08 4.466E 08	3.0955 05 2.1595 05 1.5145 05 1.0665 08 7.5355 07	5.3296 07 3.7896 07 2.7016 07 1.9306 07 1.9306 07	9.921E 06 7.137E 06 5.145E 06 3.716E 06 2.689E 06	1.950E 06 1.417E 06 1.331E 06 7.522E 05 5.495E 05	4.222E 05 2.950E 05 2.167E 05 1.594E 05 1.175E 05
	N(02) /CH3	7.5006 10 2.3086 10 9.7646 09 4.8446 09	2.6365 09 1.5225 09 9.1605 05 5.6806 08 3.6035 08	2.327E 08 1.524E 08 1.0106 08 6.760E 07 4.561E 07	3.0906 07 2.1166 07 1.4536 07 1.0026 07 6.9386 06	3.350E 06 1.643E 06 8.107E 05 4.032E 05 2.0162 05	1.011E 05 5.114E 04 2.601E 04 1.329E 04 6.822E 03	3.517E 03 1.820E 03 9.462E 02 4.938E 02 2.557E 02	1.361E 02 7.154E 01 3.807E 01 2.025E 01 1.081E 01	5.793E 00 3.115E 00 1.631E 00 9.103E-01 4.947E-01
	N (N2) /CH3	4.0006 11 1.3716 11 6.3116 10 5.3666 10	1.955E L0 1.200E 10 7.647E 09 5.010E 09 3.351E 09	2.275E 09 1.569E 09 1.092E 09 7.672E 08 5.422E 08	3.864E 48 2.765E 48 1.928E 48 1.435E 48 1.435E 48	5.499E 07 2.939E 07 1.503E 07 8.503E 06 4.601E 06	2.5546 06 1.4076 06 7.7816 05 4.3226 05 2.4106 05	1.349E 35 7.578E 34 4.273E 34 2.418E 34 1.373E 04	7.820E 03 4.470E 03 2.563E 03 1.475E 03 8.513E 02	4.929E 02 2.863E 02 1.668E 02 9.751E 01 5.716E 01
979 ⁰ K	MEAN MOL VT	27.01 26.35 25.76 25.19	24.63 24.07 23.53 22.99 22.46	21.95 21.45 20.57 20.05 20.09	19.68 19.50 10.95 18.62 10.32	17.78 17.33 16.94 16.59	15.99 15.70 15.68 15.08 14.72	14.31 13.85 13.35 12.75 12.13	11.45 10.75 9.31 8.62	7.96 7.37 6.83 5.95 94
T(4) =	SCALE HT KR	11.2 16.2 23.1 23.1	25.7 28.1 30.2 32.1 32.1	88834 54934 54934 54934 54933 54933 54933 54933 54935 54935 54935 5495 549	8140 8140 8140 8140 8140 8140 8140 8140	50. 52. 55. 7. 57. 57. 57. 57. 57. 57. 57. 57.	58.7 60.2 63.5 65.5	67.7 70.4 73.6 71.4 81.9	87.2 93.5 100.9 118.7	129.2 140.5 152.4 164.7 177.1
1460 ⁰ K	PRESSURE DYNE/CH2	2.7226-02 1.3206-02 7.6016+03 4.7016-03	3.1756-03 2.1905-03 1.5546-03 1.1276-03 8.3316-04	6.2536-04 4.7556-04 3.666-04 2.6456-04 2.8456-04 2.2328-04	1.7666-04 1.4076-04 1.1205-04 9.0996-05 7.3796-05	4.9216-05 3.3356-05 2.2906-05 1.5916-05 1.5916-05	7.0816-06 5.6296-06 4.0546-06 2.9466-06 2.1636-06	1.5996-06 1.1976-06 9.0676-07 6.9556-07 5.4096-67	4.268E-07 3.427E-07 2.784E-07 2.307E-07 1.930E-07	1.642E-07 1.416E-07 1.235E-07 1.088E-07 9.681E-08
T(14) =]	DENS I TY GM/CM3	2.4906-11 8.6366-12 4.6496-12 2.2126-12	1.3226-12 0.3006-13 5.5526-13 3.7956-13 2.6616-13	1.906E-13 1.390E-13 1.029E-13 7.724E-14 5.867E-14	4.5056-14 3.4526-14 2.7316-14 2.1536-14 1.7106-14	1.0995~14 7.2146~15 4.8246~15 3.2746~15 3.2746~15 2.2495~15	1.5546-15 1.0916-15 7.7016-15 5.4746-16 3.9166-16	2.8196-16 2.3426-16 1.4886-16 1.0926-16 8.0736-17	6.0126+17 4.5196-17 3.4306-17 2.6326-17 2.0436-17	1.6076-17 1.2816-17 1.0366-17 8.4966-18 7.6696-18
*	TEHP K	6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	711 756 792 821 821	866 865 897 909 919	928 935 941 947 951	958 958 972 972	973 974 975 975 975	779 779 779 778 778	978 978 979 979	67 6 67 6 67 6 67 6
HDUR	ALT Kh	120 130 150	160 170 160 190 200	210 220 230 240 250	260 280 290 300	320 340 360 400	4 4 5 0 9 5 5 0 9 5 5 0 9 5 5 5 5 0 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	620 64) 665 70) 70)	727 745 760 780 800

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	173 N	CCU3 C-5000 00 C-1226 00	\$•9 (35 06 1.600E 00	T.978E 01	\$°03920 03			90 2575 °C	2. 27.56 00 2. 27.56 00	5° 7700 03	second CD	3.7540 05	20 DAILe 2	8.98000 000 0.5666 06	70 3054°5	0 0 0 0 0 0 0 0 0 0 0	CO 23/9-7	6.1758.05	1.0112 03	20 3AIQ.1	•,	N (11)	/CI3	6.155F 03		0.9726 03	80 3367 03 0 7 32 0 03	6.455E 03	0.2926 03	A.1366 .03	CO 3623.	7.620E (3	7.681E 03	1.5385 03	7.3986 03	7.262E 03	7.129E U3	6.999E 03 6.872E 03
	odel 5 Rine)	2.4006 67 1.7906 07 1.4826 07	1.2016 07	1.1396 07	1.025E 07 9.419E 06	0+6936 06 0+6936 06		1.5500 06 7.6775 05	00 3100 00 01 00	6.2893 05 5 557 55	50 J762.00	5°C000 00		4.0598 D6	4.634E 06	6.2255 0V	3.0005 00	3.5405 06	3° 1201 00		2.7475 06	2.530E 06	2. 1515 06	L. 536E 06		1.034E 06	1.567F 06	1.4496 06	1.341E 06	1.242E 06	1.1506 06	1.064E 36	9.603E JS		0.503E 05	7.0996 05	7.3365 05	6.817E 05 6.337E 05
:	N(0) N(0)	7.6006 10 3.6416 10 2.1596 10	1-4266 10	1.0035 10	5.532E 09	4.2556 09 3.3276 09	2 426E CO	2.169E 09	L. 702E 09	1.1225 69	5 5 5 5 6	9.322E 00	00 170101 7°3067 00	5.312E 00	4.432E 0C	3.1065 00	2-1936 00	1.5505 00	1.4212E CS		5.717E 07	20 302704 2001E 02	2.1615 67	1.5706 07		1.3625 06	6.099E 06	4.4605 06	3.279E 06	2.411E 05	1.776E 05	1.3116 05	9.691E 05 7.177F 05		5.325E 05	3.958E 05	2.546E 05	2.17/C UD
	K(02) /CII3	7.500E 10 2.322E 10 9.765E 00	4.7996 09	2.5066.09	8- 300 00 8- 8406 00	50 200 00 8.450E 00	2.2265 00	1.601E 06	9. TLAE 07	6.4375 07 4.4375 07		5,050E 07	1.4525 07	1.0126 07	1.6355 06	3.5165 06	1.7656 06	0.9546 05			1.2155 05 1.2255 02	2.312F 04	1.7426 04	9.202E 03	6. 819 A	2.600E 03	1.390E 03	7.461E 02	4• UZUE 02	2.174E 02	1.100E 02	6.428E 01	2. 214E UI		1.061E 01	2 340E 00	J. RO7F DO	1.0005 00
	N(H2) /CH3	4.0006 11 1.3506 11 6.3236 10	3.3456 10	1.7265 10	7.4156 09	3.2226 09	2.1006 09	1.5058 09	1.053E 09	5.2016 00	00 170F 6	2.7296 06	1.9796 03	1.441E 00	20 3540•7	10 3369.2	3.1145 07	1.7155 07	5-3365 06	2 0001 21	1.686F 06	5.563E 05	5.447E 05	3.115E 05	1.7885 05	1.030E 05	5.951E 04	3.451E 04	5.000 04	1.172E 04	0.865E 03	2,277F 03	1.405E 03		8.330E 02 4.9565 33	2.955F A2	1.768E 02.	1.061E 02
* 979 ⁰ K	REAN REAN	27.01 26.35 26.35	25.16	24.03	23.48	22.41	22.051	21.42	20°95 2025	20.09	1 9.60	19642	10.98	5 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	16+31	17.04	17.39	16.67	1.6.36	16-07	15.60	15.51	15.21	14.69	14.52	14.11	13.65	12.57		11.95	05.11	9-93 9-93	9.25		82.8 7.97	(1	6.89	6.43
= (v)L	SCALE HT KA	11.2 16.1 19.2	22.0	27°5	30°2 32°2	34.3	36.2		555	1.52	66.6	. C. I.	41.4	1°23		52.5	າດ 	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	59.4	60.9	62.5	64.1	65°8	67.6	. 8 . 59	72.3	15.02	82.6		01.60 01.00	0 4 • 6 • 6	107.1	115.6		135.7	147.0	158.9	171.2
1460 ^o r	PRESSURE DYNE/CN2	2.7226-02 1.3146-02 7.5106-03	60-3163-5 60-3163-5	2.132E-03	1.511E-03 1.697E-03	8 • 1246 - 04	6.119E-04	\$0-0350-00 \$ \$ \$ \$ \$ \$ \$	2,0276-05	2.2326-04	L. 7766-94	1.4255-04	L-150E-04	7.631E-05		5.1615-05	2.0009-00	1.7555-05	1,2565~05	6.6405-06	6.393E-06	4.660E-06	3.424E-06 9.E37E-06	4. 23 (E=U6	1.096E-06	1.431E-06	L.091E+06 A.46665-07	6.5500-07		5.151E-07	3.3726-07	2.777E-07	2.320E-07	1.0/55-07	1.6856-07	1.463E-07	1.2836-07	1.137E-07
T (14) ==	DENS LTY GR/CH3	2.490E-11 U.694E-12 4.059E-12 2.201E-12			9.67000013	2.5706-13	1.6395-13	6.95410-15 9.9595-16	7.4005-14	5.709E~14	4.4035-14	8.4800-14	2.1300-16	1.7002-14		1.1115-16 7.3626-15	5.0065-15	3.4445715	Z, 3976-15	1.6828-15	1.1936-15	6.5355-16 6 775-16	6.4525-16	01-1761-10	3.2446-16	2.3//E-16 1 7626-12	1.2995-16	9.6965-17	7 2000-14	5.5155-17	4.210E-11	3.243E-17	2.5236-17	1.9855-17	1-5796-17	1.272E-17	1.0386-17	8. 2000 - 1 B
ر ۲	Tert K	574 574 575 575 575 575 575 575 575 575	703	052	623	258	077	916	126	546	956	500	106	907		505 1003	1003	1012	5707	1016	1010	1020	1023		1021	1201	1322	1022	1022	1023	1023	1923	6201	1023	1023	1023	6701 5701	<i>c</i> > <i>r</i> ;
HOUR	ALT KR	120 140 150	160	170	190	200	210	230	240	042	260	200	2.50	300		340 340	360	360	0.04-	420	0%%	0007	500		520	560	580	600	620	545	640	680	507	720	740	0.07		2

M-5-5

	N (A) / CH3	4.500E 09 1.123E 09 3.960E 00 1.670E 00	7.854E 07 3.990E 07 2.150E 07 1.214E 07 7.113E 06	4.296E 06 2.660E 06 1.660E 96 1.079E 96 7.030E 95	4.6326 05 3.0026 05 2.0676 05 1.3976 05 9.4916 05	4.450E 04 2.120E 04 1.025E 04 4.992E 03 2.446E 03	N (H) /CM3 0.737E 33	8.500E 03 8.442E 03 8.300E 03 8.162E 03 8.162E 03 8.027E 03	7.895E J3 7.766E J3 7.660E D3 7.518E J3 7.397E G3	7.2806 J3 7.1656 03 7.0526 J3 6.9426 J3 6.8346 P3
del 5	N (HE) /CR3	2.4006 07 1.8016 07 1.4016 07 1.2735 07	1.1226 07 1.0066 07 9.1386 06 8.3856 06 7.7606 06	7.232E 06 6.779E 06 6.3895E 06 6.037E 06 5.726E 06	5.449E 06 5.195E 06 4.963E 06 4.749E 06 4.749E 06	4.191E 06 3.073E 06 3.559E 06 3.331E 06 3.331E 06	2.882E 96 2.685E 96 2.533E 96 2.335E 96 2.335E 96 2.180E 96	2.037E 06 1.933E 06 1.780E 06 1.665E 06 1.558E 06	1.450E V6 1.366E V6 1.280E V6 1.233E V6 1.233E V6 1.125E V6	1.0558.06 9.9028.05 9.2958.15 8.7298.05 8.208.05 8.2008.05
Mo	N (0) / CH3	7-6005 10 3-6505 10 2-1546 10 1-4116 10	9.817E 09 7.122E 09 5.335E 09 4.099E 09 3.216E 09	2.565E 09 2.075E 09 1.690E 09 1.403E 09 1.168E 09	9.783E 08 8.242E 08 6.975E 08 5.927E 08 5.053E 08	3.702E 08 2.736E 08 2.035E 08 1.522E 08 1.142E 08	0.508E 07 6.487E 07 4.913E 07 3.729E 07 2.836E 07	2.161E 07 1.650E 07 1.262E 07 9.667E 06 7.418E 06	5.701E 06 4.389E 06 3.384E 06 2.613E 06 2.521E 06	1.565E 36 1.214E 36 9.429E 05 7.334E 05 5.713E 05
	N(02) /GM3	7.500E 10 2.325E 10 9.729E 09 4.746E 09	2.542E 09 1.454E 09 0.737E 08 5.463E 08 3.527E 08	2.3365 08 1.5016 08 1.0885 08 7.5965 07 7.5965 07	3.8296 07 2.7556 07 1.9966 07 1.4556 07 1.4556 07	5.797E 06 3.195E 06 1.779E 06 9.991E 05 5.650E 05	3.200E 05 1.829E 05 1.059E 05 6.058E 04 3.507E 04	2.0386 04 1.1886 v4 6.9526 03 4.0816 03 2.4046 03	1.4206 03 8.4176 02 5.0046 02 2.9846 02 1.7855 02	1.071E 02 6.442E 01 3.887E 01 2.352E 01 1.427E 01
	N(N2) /CA3	4.000E 11 1.383E 11 5.302E 10 3.308E 10	1.891E 10 1.147E 10 7.284E 09 4.794E 09 3.245E 09	2.254E 09 1.594E 09 1.146E 09 8.340E 08 8.130E 08	4.558E 00 3.411E 08 2.569E 08 1.945E 08 1.460E 08	8.666E 07 5.137E 07 3.075E 07 1.054E 07 1.125E 07	6.837E 06 4.189E 06 2.577E 06 1.591E 06 9.858E 05	6.128E 05 3.821E 95 2.390E 05 1.499E 95 9.428E 04	5.947E 04 3.762E 04 2.386E 04 1.517E 04 9.673E 03	6.1845 03 3.9638 03 2.5468 03 1.6408 03 1.0598 03
979 ⁰ қ	HEAN ,	27.01 26.35 25.74 25.16	24.60 24.60 23.54 23.04 22.55	22-09 21-65 21-23 20-63 20-63	20.08 19.75 19.52 19.12 18.85	18,32 17,58 17,50 17,14 16,83	16.55 16,29 16,05 15,80 15,56	15.31 15.03 14.41 14.41 14.06	13.67 13.24 12.77 12.27 12.27 11.74	11.10 10.61 10.05 9.46 8.91
T (4) =	SCALE HT KM	11.2 16.0 19.7 23.0	26.1 29.1 32.0 37.3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	50 • 1 5 1 • 8 5 4 • 9 5 • • 9 5 • • 9	59 61.4 653.6 7.6 67.6	69.1 70.7 72.3 73.9 75.6	77.3 79.2 81.3 86.3	89.3 52.7 96.7 131.2 176.4	112.4 119.1 126.6 135.3 144.3
1460 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3126-02 7.4906-03 4.6906-03	3.1226-03 2.1736-03 1.5666-03 1.1616-03 8.7926-03	6.7836-05 5.3136-06 4.2166-06 3.3796-06 2.7356-06	2.23226-04 1.8350-05 1.5166-05 1.2616-05 1.2616-05	7.4516-05 5.3676+05 3.8866-05 2.8506-05 2.1106+05	1.570E+05 1.160E+05 8.920E+06 6.786E+06 5.193E+06	3.9986-06 3.0976-06 2.4146-06 1.8946-06 1.4976-06	1.192E-06 9.564E-07 7.742E-07 6.325E-07 5.216E-07	4.3446-07 3.6546-07 3.1056-07 2.6646-07 2.3096-07
T(14) =	DENS I TY GM/CM3	2. 490E-11 8.710E-12 4.046E-12 2.176E-12	1.2816+12 8.0276-13 5.2836-13 3.6176-13 2.5576-13	1.8576-13 1.3796-13 1.0436-13 1.0436-13 8.0108-14 6.2496-14	4.9286-14 3.9276-14 3.1586-14 2.5606-14 2.9506-14 2.0906-14	1.4206-14 9.8526~15 6.9546-15 4.9796-15 3.6076-15	2.6356-15 1.9456-15 1.4476-15 1.6836-15 8.1546-15	6.171E-16 4.693E-16 3.504E-16 2.750E-16 2.119E-16	1.640E-16 1.274E-16 9.952E-17 7.810E-17 6.16E-17	4.8886-17 3.9016-17 3.1356-17 2.5376-17 2.5686-17
8	TE HP K	355 477 673 673 673	721 783 889 933	9701 1032 1032 1032	1096 1109 1122 1133 1142	3071 5271 5271 9571	1186 1186 1195 1191 1191	1193 1193 1196 1196 1196	1196 1195 1195 1195	1195 1195 1195 1195 1195
HOUR	ALT KH	120 140 150	160 170 190 200	210 220 230 240 250	260 270 290 290	320 360 400 400 400	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	550 560 600 600	620 660 700 700	720 740 760 800

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	N(1.) VCI3	4.500E 09 1.1196 09 3.9426 00 1.6676 00	7.9626 07 7.9626 07 2.31966 07 2.31966 07 2.31966 07 2.31966 07	5.55 5.53 5.53 5.53 5.53 5.55		0. 4220 4. 5220 5. 5210 5. 2450 5. 2450 5. 25 5.	N(H) /CLT3 0.472E 03	0.3416 00 0.2466 05 0.0926 03 7.9696 03 7.6516 03	7.735E 03 7.622E 03 7.511E 03 7.402E 03 7.296E 03	7.1928 03 7.0908 03 6.9908 03 6.8928 03 6.8928 03 6.7928 03
odel 5	N (HE) / CH3	2.4006 07 1.7926 07 1.4636 07 1.2446 07	1,0000 07 9.7100 00 0.0006 06 0.0006 06 7.6006 06	7.0088 00 6.5916 00 6.28010 00 7.9126 00 9.6308 00	5, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	4,8308 06 9,9398 06 9,5398 06 8,5378 06 8,5378 06 8,5378 06	3.0186 06 2.6326 06 2.6406 06 2.4996 06 2.4996 06 2.3506 06	2.2115 06 2.0605 06 1.9595 06 1.8455 06 1.7395 06	1.639E 06 1.545E 06 1.458E 06 1.376E 06 1.376E 06	1.2265 06 1.1505 06 1.0955 06 1.0355 06 9.7845 05
W	N(0) /CH3	7.600E 10 3.625E 10 2.120E 10 1.372E 10	9.4946 09 6.9026 09 5.2126 09 4.0536 09 3.2246 69	2.611E 00 2.1466E 00 1.764E 09 1.497E 09 1.267E 09	1.0768.09 9.2298 00 7.9348 08 6.6476 08 5.9268 00	4.470E 00 3.411E 00 2.614E 60 2.6135 00 2.5135 00 1.5566 00	1.2056 00 9.3686 07 7.3016 07 5.7026 07 5.7026 07	3.498E 07 2.746E 01 2.160E 07 1.701E 07 1.342E 07	1.060E 07 8.385E 06 6.643E 06 5.270E 06 4.186E 06	3.3306 06 2.6526 06 2.1156 06 1.6996 06 1.3506 06
	N(02) /CH3	7.500E 10 2.315E 10 9.647E 09 4.690E 09	2.5376 09 -1.6768 09 9.1106 00 5.8768 08 3.9178 08	2.6625 08 1.8762 00 1.3355 08 2.6535 07 7.0315 07	5. 1025 07 3. 0495 07 2. 0708 07 2. 1656 07 1. 6365 07	9.4586 00 5.5376 00 3.2776 06 3.2776 06 1.9516 06 1.1706 06	7.029E 05 4.2596E 05 2.590E 05 2.590E 05 1.581E 05 9.669E 04	5.9576 04 3.6746 04 3.6746 04 2.2736 04 1.4116 04 1.4116 04 8.7816 03	5.481E 03 3.431E 03 2.153E 03 2.153E 03 1.355E 03 1.355E 03 0.553E 03	5.4126 02 3.4346 02 2.1846 02 1.3936 02 1.3936 02 8.9066 01
	N(N2) /CH3	4.000E 11 1.376E 11 6.236E 10 3.260E 10	1.8735 10 1.1535 10 7.4765 09 5.0506 09 3.5106 05	2.5116 09 1.6205 09 1.3526 09 1.0136 09 7.6726 00	5.2610 00 4.5106 08 3.4926 08 2.1176 08 2.1246 08	1.2220 0.2036 07 5.1736 07 3.2066 07 2.0996 07 2.0996 07	1.343E 07 8.658E 06 5.601E 06 3.636E 06 2.368E 06	1.546E 06 1.013E 06 6.652E 05 4.380E 05 2.892E 05	1.9146 05 1.2706 05 8.4456 04 5.6306 04 3.7636 04	2.5206 04 1.6926 06 1.1396 04 7.6796 04 7.6796 03
979 ⁰ K	NEAN Rol nt	27.01 26.35 25.75 25.20	25.67 25.17 23.20 23.20 22.61 22.61	22.39 21.59 21.60 21.23 20.55	20°55 20°22 20°22 20°62 20°62 20°62	18.53 18.35 17.57 17.65 17.25	16.99 16.73 16.40 16.03 16.03	15.02 15.60 15.37 15.13 14.88	14.60 14.30 13.90 13.63 13.25	12.84 12.40 11.94 11.46 10.97
T (2) =	SCALE HT KN	11.2 16.1 20.2 24.1	24 24 24 24 24 24 24 24 24 24 24 24 24 2	80000 8000 8000 8000 800 800 800 800 80	59955 59955 59955 59955	64.1 66.7 71.2 73.2	75.1 76.9 80.3 81.9	83.6 83.6 87.1 91.0 91.0	92.3 95.8 95.8 101.8 105.3	109.3 113.6 118.6 124.5 130.8
1460 ⁰ K	PRESSURE DYRE/CH2	2.7226-02 1.3176-02 7.5026-03 4.8206-03	3.2776-03 2.3376-05 2.3376-06 1.7276-03 1.3116-03 1.3116-03 1.60176-03	8.0185-04 6.4125-04 5.1275-04 6.2376-04 4.2376-04 3.4906-04	 2.0555-04 2.4186-04 2.0365-04 1.7135-04 1.4526-04 	1.0556+05 7.7706+05 7.72706+05 7.3516+05 5.3516+05 5.3516+05 5.3516+05 5.3516+05 5.3516+05	2.515C-05 1.9336-05 1.495E-05 1.65E-05 1.05E-05 9.079E-06	7.129E-06 5.625E-06 4.460E-06 3.553E-06 2.845E-06	2.2906-06 1.8536-06 1.5096-06 1.2366-06 1.2366-06	8. 4526-07 7.0646-07 5.9476-07 5.0456-07 4.3136-07
1 (14) =	DENSITY GM/CH3	2.490E-11 8.666E-12 4.003E-12 2.141E-12	1.263E~12 0.000E-13 5.362E-13 3.766E-13 2.766E-13 2.706E-13	2.0086-13 1.5235-13 1.1765-13 9.2156-14 7.3166-14	5.6736-14 4.7595-14 3.8058-14 3.2026-14 3.2026-14 2.6536-14	1.0536-14 1.3206-14 9.5476-15 7.0502-15 7.0502-15 5.1926-15	3.8626+15 2.9326-15 2.2316-15 1.7086-15 1.3166-15	1.0196-15 7.9226-16 6.1876-16 4.8516-16 3.8186-16	3.0165-16 2.3915-16 1.9015-16 1.5105-16 1.5105-16	9.7766-17 7.8946-17 6.3996-17 5.2166-17 4.2626-17
10	TEHP K	355 482 587 682	777 070 070 078 078	1075 1114 1124 1136 1138	1216 1226 1256 1273	1299 1301 1315 1315 1316 1321	1324 1526 1320 1330 1331	1331 1332 1333 1333 1333 1333	1334 1334 1334 1334 1334	1325 1335 1335 1335 1335
=ипан	AL T Kr	120 130 150	160 170 190 200 200	210 220 250 250 250	260 270 290 300	0000000 000000 00000000000000000000000	500 500 500 500 500 500 500 500 500 500	000000 000000 000000000000000000000000	620 640 680 700	720 740 760 760 800

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6000 1007030 30000 50000 60 **88888** 000000 00000 60 60 60 60 60 60 60 60 60 8.2696 4.4556 2.5576 1.5576 1.5576 9.7276 6.302E 4.100E 2.020E 1.949E 4.500E 1.110E 3.926E 1.608E 9.4736 6.7136 6.7136 4.7916 3.4416 2.4656 1.3136 7.0346 3.6206 2.0026 1.1466 8.2316 8.0836 7.9685 7.8566 7.7476 7.640E 7.535E 7.432E 7.332E 7.233E 7.135E 7.042E 6.949E 6.858E 6.768E NCA1 CO3 N (H) /CM3 8.321E 40400 NNN 0 000000 900000 00000 999999 999999 00000 N.(HE) /CH3 6.0986 6.5068 6.5068 5.2676 5.696 5.696 5.696 5.696 2.400E 1.774E 1.435E 1.214E 1.0596 9.4606 8.5966 7.9136 7.3596 4.2006 4.2006 3.7516 3.9526 3.9226 3.9226 3.9226 3.116E 2.936E 2.76BE 2.611E 2.465E 2.3275 2.1995 2.0785 1.9655 1.8595 1.7596 1.6656 1.5766 1.4936 1.4156 1.341E 1.271E 1.206E 1.144E 1.085E ŝ Model 00000 00000 000000 - 9999 0000 07 06 06 06 70770 9.2936 6.8176 5.2046 4.0946 3.2956 2.6996 2.2436 1.8056 1.5986 1.3656 1.1746 1.0146 0.7976 7.6606 7.6606 5.1426 3.9036 3.1036 2.4296 1.9006 7.6006 3.5736 2.0716 1.3376 1.5726 1.1666 9.3936 7.45526 5.9236 4.7166 3.7606 3.0036 2.6026 1.9246 1.543E 1.239E 9.963E 8.922E 6.468E 5.2216 4.2206 3.4156 2.7676 2.2456 N(0) /CH3 00000 000000 000000 2368 6 6 0 0 0 0 0 0 0 0 0 20000 - 3339 00000 ***** 50050 00000 2.5046 1.5406 9.7306 6.4226 4.3038 3.0696 2.1946 1.5946 1.1746 8.7376 1.3326 8.0655 4.9296 3.0346 1.8796 1.1676 7.2956 4.5806 2.3866 1.8256 1.157E 7.363E 4.698E 3.006E 1.929E 1.2418 8.0068 5.1786 3.3588 2.1838 1.4238 9.2948 6.0878 3.9968 2.6308 NC 02) /CH3 500E 291E 549E 697E 5626 9666 7826 3956 2276 NNO 2 3 รัก กั กั 000000 99965 99965 -----0000 8 3 8 8 3 0 0 0 0 0 00000 2000 000000 33557 3000 1 1,0058 1,1656 7,6496 5,4128 3,6496 3,6496 2.8026 2.0796 1.5666 1.1956 3.2026 7.1476 5.5906 4.3976 3.4766 2.7606 1.7576 1.1316 7.3426 4.7966 5.1536 NEN2) 4.000E 1.360E 6.154E 3.239E 2.076F 1.376E 9.152E 6.107E 4.087E 2.743E 1.846E 1.246E 8.4256 5.712E 3.8826 2.6456 1.8066 1.2366 5.8266 4.0136 2.7706 1.9176 1.3296 TH NY °_× 27.01 26.36 25.78 25.25 24.76 24.29 23.65 23.63 23.63 22.66 22.27 21.50 21.22 20.59 20.59 20.29 20.29 19.73 6.13 5.52 5.51 5.32 5.30 9.22 8.25 1.55 7.62 7.32 6.79 6.56 6.34 5.07 4.53 4.53 9.99 2.55 2.13 2.13 979 ਦੂੰਬ 11.2 20°29 20°29 20°29 20°29 67.1 62.8 72.6 76.7 70.7 80.6 82.4 85.2 85.9 67.6 69.6 92.6 92.6 36.6 93.8 101.1 103.7 105.6 113.3 113.3 117.2 126.5 SCALE HT KN £ 2.7226-02 1.3266-02 7.7486-03 5.0216-03 3.4836-03 2.5336-03 1.9066-03 1.4716-03 1.1576-03 9.2521-64 7.4911-04 6.1291-04 5.0591-64 5.0591-64 3.526E~04 2.968E~04 2.5128~04 2.5128~04 2.1368~04 2.1368~04 1.3456~04 1.0046~04 7.5786~05 5.7710~05 4.4310~05 3.4200-05 2.6610-05 2.0026-05 1.6300-05 1.2950-05].0206-05 0.1986-05 6.5668-06 5.2826-06 5.2826-06 4.2665-06 3.4616-76 2.8216-76 2.3096-06 1.8996-06 1.5776-06 1.3056-05 1.0916-05 9.1696-07 7.754E-07 6.599E-07 PRESSURE DYNE/CM2 °... 1460 1.2686-12 8.1706-13 5.5676-13 3.9566-13 2.5046-13 2.1086-13 1.6026-13 1.3165-13 1.0446-13 0.3026-14 6.7996-14 5.5646-14 4.5896-14 3.8106-14 3.1836-14 2.2576-14 1.6302-14 1.1946-14 8.8566-15 6.656E-15 1.4016-15 1.1036-15 8.7176-16 6.9176-16 5.5086-16 . 4905- 11 . 5666-12 . 9456-12 . 0376 - 15 . 8495 - 15 . 963E - 15 . 296E - 15 . 789E - 15 4916-16 5286-16 8376-16 2896-16 2896-16 1.5045-16 1.2246-16 1.2006-16 1.0006-16 3.2006-17 DENS I TY GN/C/13 T(14) N. a. m. N. 2 1321 1321 1325 1349 1369 010 906 952 1076 11.52 11.52 12.27 12.56 12.61 1377 1353 1566 1666 1414 1417 1419 1419 1417 1414 TER! 355 1424 1424 1425 1425 1426 1426 1426 1428 1427 1427 1427 1427 1427 12 =100R= AL.1 KH 210 220 250 250 50000 260 270 280 280 280 280 623 646 665 683 703 703 720

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6600 00000 1999999 000000 445 M M 84984 10 100000 000000 000000 **MMMMM** 00000 8.6026 2.7026 2.7056 2.7056 2.0066 2.0066 2.0066 4.500E 1.100E 3.932E 1.721E 7.620E 7.517E 7.417E 7.318E 7.222E N(A) /CH3 7.1286 7.0356 6.9446 6.8556 N (E) N E ED/ 0.207E - 4 3 4 3 - 4 3 4 3 **00000**000 100000 00000 2000 00000 00000 9 9 9 9 9 9 9 9 9 9 9 9 999999 **8999**99 N (HE) 2.4006 1.7556 1.4236 22.22 22.52 22.52 25.52 1.8116 1.7176 1.5536 1.5536 1.4646 1.389E 1.318E 1.252E 1.189E 1.130E ŝ Model 0000 800000 600000 000000 00000 100100 1001 7.600E 3.517E 2.032E 1.313E 9.2296 6.8276 5.2556 4.15556 4.15556 3.3776 1-1458 0-1458 0-1458 0-1458 1-1.0626 1.01626 1.0496 8.0656 6.0306 5.344E 4.282E 3.436E 2.7616 2.222E 1.7918 1.7918 1.458 1.1678 9.4458 7.6516 HCO) /CH3 6.205E 5.039E 4.097E 3.335E 2.718E 01000 000000 100000 1-0000 34444 00000 04444 000000 ***** 7-5005 2-2665 9-4975 4-7355 2.6478 1.6038 1.6038 6.8516 6.8516 7556 2.4558 9.2136 3.7166 2.3726 3.7166 2.3726 N(02) /CH3 1.5196 9.7576 6.2866 4.0516 2.6316 1.7098 1.1136 7.2698 4.7598 3.1236 2.0558 2.0558 8.9556 9.946 9.946 6 8 8 8 8 0 0 0 0 0 1122 00000 800000 80000 00000 00000 00000 0000 399999 00000 44444 2.0406 1.3256 8.6825 5.7236 5.7236 **0008 1*3446 6*1008 3*2438 2.0268 2.2506 1.7236 1.0246 1.0275 N(N2) /CM3 1.9206 1.2226 5.2016 5.7256 4.1166 Z.5196 I.6046 I.1296 7.5996 5.1296 3.471E 2.356E 1.603E 1.0936 7.477E 5.1246 3.5206 2.4246 1.6736 1.1576 8.017E 5.568E 3.875E 2.703E 1.889E °× HEAN HOL NT 24.82 24.82 23.96 23.56 23.17 23.17 21.09 20.18 20.48 20.48 20.48 27-01 26-37 25-50 25-30 222.43 19-10-10 19-10 10-10 10-10 3. 69 3. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 2. 69 5. 69 919 Ħ 11.2 16.8 26.2 26.2 SCALE HT KM 67.8 70.6 75.4 77.6 000000 00000 00000 00000 97.7 99.8 102.0 104.4 107.0 110.0 113.2 116.8 120.7 125.2 4 3.6556-03 2.6556-03 2.05076-03 2.05076-03 2.55566-03 2.25566-03 2.25566-03 3.5168-04 3.30001-04 2.30001-04 2.30001-04 2.30001-04 2.04561-04 2.04561-04 2.04561-04 1.5138-0% 1.1358-0% 8.5798-0% 6.5538-05 6.5538-05 5.0478-05 5.0478-05 3.907E-05 3.050E-05 2.354E-05 1.889E-05 1.498E-05 2.722E-02 1.336E+02 7.914E-03 5.202E-03 1.01000-03 8.2146-04 6.7456-04 5.7456-04 5.5908-04 404-04 1.1926-05 9.5456-06 7.6686-06 6.1856-06 5.0106-06 4.074E-06 3.327E-06 2.729E-06 2.248E-06 1.860E-06 PRESSURE DYNE/CM2 1.547E-06 1.293E-06 1.087E-06 9.181E-07 7.802E-07 °_X 1460 1.2045-12 8.3795-13 5.7755-13 4.1466-13 3.0726-13 1.779E-16 1.452E-16 1.190E-16 9.776E-17 8.059E-17 H 2.4906-11 8.4596-12 3.9086-12 2.1236-12 2.33224-13 1.8062-13 1.4216-13 1.4216-13 1.1336-13 9.1418-14 7. 4448 6. 11344 5. 1134 5. 0038 1. 124 4. 21038 1. 124 4. 124 8. 22008 1. 124 4. 124 7. 124 2.5118-14 1.6138-14 1.3318-14 9.4558-14 7.4928-15 5.66%~15 4.3556~15 3.3526~15 3.3626~15 2.6126~15 2.0426~15 1.6056-15 1.2676-15 1.0056-15 7.9976-16 5.123E-16 4.121E-16 3.325E-16 2.691E-16 2.185E-16 DENS I TY GM/CA3 (14) 1459 1459 1460 1460 850 940 1018 1028 1048 1187 1227 1261 1290 1314 1000 1000 1000 1000 1000 1000 1407 1420 1420 1420 1420 1445 1445 1445 1445 1445 1458 355 501 745 745 4000 <u>ب</u> ۳ 14 -10UR= ALT 50 30 00000 9000 9000 9000 9000 400 420 740 623 640 680 680 700

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		N(A)	243	4.500E 09	1.093E 09 3.9496 00	1.751E 08		8.8426 07	4.879E 07	2.8000 07 2.8000 07	1.126F 07		7.380E 06	4.730E 06	3.3615 06	2.518H 06		1.130E 06	8.076E 05	5-7665 05	4.1406 05	Z.986E 05	1.572C AF	8.387F 04	4.5195 04	2-4555 04	1.344E 04		N (H)	1001		8.391E 03		8.268E 03	8.147E 03	7.9156 13	7-8045 03		1.694E 33	7.508E D3	1.483E 33	7 2805 53	1.450 L JJ	7.182E 03	7.086E 03	6.992E 03	6.899E J3	6.808E C3
	odel 5	N(HE)		Z-400E 07	1.403E 07	1.1906 07		10 3440*1	7.310E U5 8.566E 04	7.9236 0A	7.3976 06	F 7	6.9586 06	0.382E 06		5-7045 04		5.463E 06	5.251E 06	5.052E 06	4.5665 06	4.0405 06	4.376F 0A	4.092E 06	3.8346 06	3.598E 06	3.381E 06	1010	3.184E 06	2.8216 06	2.659E 06	2.508E 06		2.30/F U6	2-1115 06	1-9956 06	1.886E 06			1.007 U.O		1.437F 06		1-357E J6	1.286E 06	1.2196 06	1.156E J6	L.CYOE
	2	N(O) VCH3		3.480C 10	2.0176 10	L-3195.10	0,3050,00	5, 924F 00	5.351E 09	4.254E 09	3.4546 09		2.851E 09		I-TIAF NO	1-467E 09		1.264E 09	1.094E 09	9.501E 08	0.2/2E UB		5.5556 08	4.297E 08	3.342E 08	2.610E 08	2.046E 08	1-6455 08	1.265E 08	9.9956 07	7.911E 07	6.273E.07	4 092E 01	3.9655 07	3.160E 07	2.5226 07	2.016E 07	1-6165 07	1-2046 07	1.039F 07	8.34RF 06	6.719E 06		5-4156 06	4.369E 06	3.230E 06	2.8555 US	00 3010.9
		N(02) /CH3	7.5005 10	2.2495 10	9.501E 09	4.791E 09	2.7045 09	1.647E 09	1.060E 09	7.107E 08	4.910E 03		2.502F 08	I-829E 08	1.3535 08	1.010E 03		(.605E 07	20 3201 01	3. 261E 07	2.584F 07		1.542E 07	9.303E 06	5.661E 06	3,470E 06	2.139E UG	1.321E 36	8.221E 05	5.136E 05	3.223E U5	Z-029E 05	1.281F 05	6.118E 04	5.159E 04	3.289E 04	Z.102E 04	1.348E 34	8.662E 03	5.5836 03	3.608E J3	2.337E 03		1.518E 03	9.001E UZ	4.224F UC	2.771E 02	3
		/CH3	4.000E 11	1.332E 11	6.091E 10	of solve	1.954E 10	1.252E 10	8.431E 09	5.8956 09	4.241E 09	3,1175 00	2.3306 09	1.765E 09	1.352E 09	1.045E 09	0 137E 00	6-370F 00	5.014F 08	3.9648 08	3.146E AF		1.9995 08	1.2035 08	0.2995 07	3.53AF 07		2.3185 37	1.530E 07	1.013E 37	6.134E U6	4.440 0.05	3.032E 06	2.013E 06	1.354E 06	9.124E J5	CO 30010	4.177E 05	2.837E 05	1.931E 05	1.317E 05	9.008E 34		0.1/4E 04	2.9195 04	2.014E 04	1.392E 04	
, 979 о _К	HEAN	MOL WT	27.01	26.37	25.82		24.85	24.41	23,99	23.58	67-62	22.81	22.44	22.08	21.74	21.40	21-07	20.76	20.45	20.16	19.88		10 00	19 64		17.71	1	17.39	17.11	L6.85	10.01	n 7. 9	16.17	15.97	15.76	15, 25		15.11	14.87	14.62	14.34	14.04	64 E F	13.37	13.00	12.60	12.19	
T (4) =	SCALF	HT KN	11.2	17.0	26.4		30.6	34.4	6•1E			46.4	48.7	6°05	0.80	· · ·	56.8	58.5	60.1	61.7	63.2		60°0	2.17	73.5	75.6		77.6	19-6	2 C C 4 C 7 C	34.0		86.6	88.3	0,04	9-16		95.6	1.16	150.0	0.20T	100.4	138.5	112.0	115.8	120.1	125.0	
1460 ⁰ K	PRESSURE	DYNE/CH2	2-722E-02	1.343E-02	5.295E-03		3.7296-03	2.070F 03	2.0736-03	1 - 274F=03		1.021E-03	8-271E-04	0-108E-04		****	3.8795-04	3.261E-04	2.755E-04	2.3386-04	L.992E-04	1-4625-06	1.0865-04	8-161E-05	6.190E-05	4.7336-05		3.639E-05	2.3015-05	L-2016-05	1.360E-05	1	1.077E-U5	8.369E-06	5.4946-06	4-428E-06		3.584E-06	2 20 14 14 100	2.380E-06	1 4120-04	90-3710-1	1.337E-06	1.1156-06	9.353E-07	7.894E-07	6.705E-07	
T (14) =	DENS I TY	GH/CH3	2.490E-11	3.8995-12	2.140E-12		8.568F-12	5-9755-13	4.261E-13	3.158E-13		2.396E-13	1 6656-13		9. 308F-14		7.555E-14	6.182E-14	5.095E-14	** 226E - 14	+1-302C+C	2.4916-14	1-7916-14	l.306E~14	9.654E-15	7.2146-15		0.434E-15 4.136E-16	3.1726-15	2.449E-15	1.9026-15		1.486E-15 1.144E-15	9.190F-15	7.273E-16	5.778E-16		4.607E-16 3.6855-14	7.957E-16	2:3815-16	1-9235-16		1.558E-16	1.266E-16	1.032E-16	6-448E-17	6+ 43 (E-11	-
R= 16	TENP	×	355	638	753	4 2 A	678	1012	1074	1125		1169	1004	1261	1283		1301	1317		1401		1366	1377	1386	1392	1951		1041	1406	1408	1409		1412	1412	1413	1414		1414 1415	1415	1415	1416	8	1416	1416	1415	0147	1411	
ЛОН	ALT	X X	120	140	150	160	170	180	1 20	200		012	230	240	250		260			000 100		320	09E	360	086	00%	107	074	460	684	500	637	540	560	5 83	600		040 940	663	680	200		720	140	107	00.8	272	

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20200 00000 00000 00000 20000 00000 000000 000000 50 03307 8-9246 4-5056 2-0556 1-7376 1-0506 7.0128 6.5576 3.6628 2.0639 4.4098 0.6512 0.6512 0.6506 2.6506 2.5526 2. 0.5000 0.3656 0.2656 0.2556 0.1076 7.9826 7.9826 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -1997 - 1997 N (E) /CE3 930E 7.8616 7.7426 7.6256 7.6256 7.6126 . . 100000 33333 03000 000000 \$9999 \$0000 1000 . 00000 . 00000 \$ \$ \$ \$ \$ \$ 0 0 0 0 0 99993 90003 5232 N (1-1) V CH 3 7.1416 6.755 6.755 6.2115 6.2115 6.2115 6.2115 6.2115 7.0376 7.0376 2.4005 1.7405 1.4055 1.1905 1.0576 9.5526 8.7555 8.1125 7.5562 3.1296 2.9316 2.7476 2.5776 2.5776 2.4106 2.271E 2.133E 2.005E 1.805E 1.773E 1.5715 1.5715 1.3945 1.3945 1.3145 1.2305 -1 2 000 22200 888888 000000 00000 0000000 20020 100100 **3**832-9.472E 7.001E 5.403E 4.356E 3.526E 2.6996 2.6096 2.6096 2.0206 1.7076 1.4506 7.600E 3.4756 2.0236 1.3336 1.2306 1.0626 9.1356 7.0526 7.0526 5.1346 3.6916 2.9646 2.2686 1.7416 1.3300 1.0330 7.9936 6.1906 6.1906 1014 3.749E 2.924E 2.2046 1.7076 1.4016 1.100E 0.645E 6.896E 5.356E 4.237E 3.351E 2.653F 2.134F 1.4701 00000 0000 00000 000 000 000 000 1001 89000 99000 ***** 000000 000000 N 0 0 0 1 7.5001 2.24400 9.5276 4.8346 86023 7083 2.7365 1.6655 1.0666 7.00566 4.8396 3.3755 2.39555 1.7215 1.2505 9.1616 6.7645 5.0245 3.7525 2.0145 2.1195 1.2148 7.0236 4.0596 2.4096 8. 4316 5.0356 3.0196 1.8106 1.0996 6.465E 4.056E 2.477E 1.517E 9.325E 5.748E 3.554E 2.2045 1.3706 2.5456 5.3446 3.3516 2.1076 1.3290 P.3360 000000 00000 1101 000000 00000 07 00 00 00 00 000000 50000 1000 5556F 4.6001 1.331 6.106 3.307 5 1.9016 1.2696 8.5196 5.9176 5.9176 3.063E 2.2606 1.600E 1.273E 9.600E 7.4106 5.7056 4.4136 3.4275 3.4275 2.6716 1.637E 1.013E 6.320E 3.967E 2.503E 1.712E (1.108E (7.194E (4.604E 3.050E 1.501E 1.006E 6.429E 4.123E 2.652E 2.002E 1.3145 8.6455 5.7035 3.7725 3.7725 2.500E 1.662E 1.107E 7.390E 4.9466 PC AN Hole w 24.05 24.39 23.52 23.52 21.01 25.37 25.32 25.31 22.70 22.31 21.55 21.55 21.19 20.04 20.51 20.19 19.00 19.59 9.0% 7.7% 7.3% 17.00 16.00 16.55 16.31 16.31 14.63 14.33 14.00 13.64 13.25 5.06 5.66 5.71 5.71 12.83 12.38 11.91 11.41 11.41 57.27 11 - 18 11.2 17.0 21.8 26.1 29.9 35.3 36.3 41.5 61.9 66.3 66.7 66.7 70.6 81.1 82.8 84.6 86.5 80.5 72.7 74.4 77.6 777.6 79.5 90.8 93.2 96.0 95.1 111.1 2.7226-02 1.3436-02 8.0156-03 5.2606-03 3.6966-03 2.6946-03 2.0216-03 1.5506-03 1.2106-03 9.568E-04 7.655E-04 6.1665-04 5.0405-04 5.0405-04 2.7296-05 2.0796-05 1.5546-05 1.2306-05 9.5356-05 3.417E-04 2.639E-04 2.371E-04 1.990E-04 1.677E-04 1.205E~04 8.700E~05 6.470E~05 4.816E~05 3.616E~05 3.616E~05 1945 2500 3 D1A5 ZQ3 2 7.432E+06 5.823E+06 4.585E+06 3.629E+06 3.629E+06 2.087E+06 2.310E-06 1.859E-06 1.504E-06 1.226E-06 1.226E-06 1.005E-06 8.3026-07 6.9386-07 5.7936-07 4.5976-07 4.5976-07 DE NS LTY GRZC NS 1.3246-12 8.7006-13 6.0046-13 4.2976-13 3.1626-13 2.379E-13 1.822E-13 1.415E-13 1.1146-13 8.853E-14 7.1056-14 5.7402-14 6.6045-14 3.6425-14 3.1705-14 3.1705-14 2.1936-14 1.5456-14 1.1066-14 0.0206-15 5.6072-15 4.354E-15 3.257E-15 2.456E-15 1.656E-15 1.656E-15 1.424E-15 1.094E-15 8.444E-15 6.547E-16 5.090E-16 3.985E-16 3.127E-16 2.463E-16 1.947E-16 1.545E-16 1.545E-16 1.231E-16 9.842E-17 7.902E-17 6.373E-17 5.163E-17 4.204E-17 (1.1.)2. 4501-8. 3770-3. 9100-2. 1600-305 505 765 765 834 908 970 1021 1063 1050 1128 1128 1173 1206 1216 1226 1236 1259 1260 1275 1201 1201 1287 1295 1295 1295 1295 L295 L297 L299 L299 L299 1301 1301 1301 ਦੇ ਵ 302 302 302 302 3 1 2 -1101 AL T KH 120 001000 210 220 220 250 250 200 200 200 200 200 200 200 000 000 000 000 000 000 480 480 480 480 480 720 620 660 680 700

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	N(A) /CH3	4.5006 09 1.0096 09 3.9916 00 1.7676 08	90 200 200 200 200 200 200 200 200 200 2	5. TCCE 06 3. 5496 66 2. 2506 66 1. 4178 96 9.0766 65	8 9 9 9 9 9 9 9 9 9 9 9 9 9	 \$ \$	и (п) /сп;; с.211е 63	9.0368 03 6.0618 03 8.6528 03 0.5258 03 0.5258 03 0.5708 03	8.2146 63 8.0626 03 7.9165 03 7.7106 03 7.6296 03	7.4926 03 7.3586 03 7.2276 03 7.0996 03 7.0996 03 6.9746 03
odel 5	N(HE) /CA3	2.400E 07 1.753E 07 1.420E 07 1.230E 07	1.0946 07 9.9366 07 9.1566 06 9.1566 06 7.9726 06	7.5056 06 7.0926 06 6.7286 06 6.5006 06 6.5006 06	5. 7996 5. 7996 5. 7996 5. 7996 5. 7997 5. 799 5. 7996 7. 79967 7. 7996 7. 79967 7. 7996 7. 7996 7. 7996 7. 7996 7. 7996 7. 79	4.4405 06 4.4405 06 4.0055 06 3.7565 06 3.4615 06 3.1925 06	2,9446 06 2,7195 06 2,5195 06 2,5195 06 2,3245 06 2,1506 06	1.991E 06 1.054E 06 1.709E 06 1.709E 06 1.504E 06 1.469E 06	1.364E 06 1.266E 06 1.176E 06 1.093E 06 1.093E 06 1.016E 06	9.4488 05 9.7918 05 8.1838 05 7.6208 05 7.6208 05
Mc	к (0) /СН3	7.600E 10 3.512E 10 2.067E 10 1.375E 10	9.8286 09 7.3526 09 5.6726 09 4.4726 09 3.5026 09	2.9036 09 2.3746 09 1.95460 09 1.6206 09 1.6206 09 1.3406 09	1.1256 09 9.4245 09 7.5136 09 6.6596 00 5.6596 00	4.0005 00 2.6776 00 2.6776 00 2.6736 00 1.4495 00 1.40076 00	7.0765 07 5.7695 07 4.1938 07 3.0709 07 2.2526 07	1.6555 07 1.2198 07 0.9908 06 6.6528 06 4.9278 06	3.6562 06 2.718E 06 2.024E 06 1.510E 06 1.510E 06 1.128E 06	8.445E 05 6.332E 05 4.756E 05 4.776E 05 3.577E 05 2.696E 05 2.696E 05
	N(02) /CH3	7.500E 10 2.264E 10 9.644E 09 4.8000E 09	2.742E 09 1.641E 09 1.027E 09 1.027E 09 6.627E 00 4.376E 00	2.9406 00 2.0026 00 1.3776 00 9.5566 07 6.6756 07	4.6098 07 3.2162 07 2.3455 07 1.6495 07 1.1986 07	6.0908 06 3.1998 06 1.6928 06 1.6928 06 8.6028 05 8.6028 05 8.5028 05	2.3006 09 1.2656 05 6.7576 05 6.7576 05 3.6236 04 1.9516 04	1.0556 04 5.7246 03 3.1106 03 1.7056 03 9.3566 03	5.1536 02 2.0405 02 1.5006 02 8.7916 01 4.9196 01	2.7516 01 1.5476 01 8.7266 00 4.9386 00 2.8046 00
	N (N2) /Cn3	4.000E 11 4.362E 11 6.198E 10 3.361E 10	2.002E 10 1.267E 10 0.350E 09 5.664E 09 3.924E 09	2.7638 09 1.0698 09 1.0178 09 1.0178 09 1.0278 09 7.0338 08	5.6958 08 4.0478 00 2.9928 48 2.2189 00 2.2189 00 2.2189 00	9.1535 07 5.1515 07 2.9055 07 1.6516 07 9.4155 06	5.3576.06 3.0506.06 1.7706.05 1.0306.05 5.926.05	3.6976 05 2.0476 05 1.2036 05 7.0096 06 4.1926 04	2.4066 04 1.4795 04 8.8296 03 5.2855 03 5.2855 03	1.911E 03 1.154E 03 6.991E 02 4.247E 02 2.587E 02
= 979 ^o K	NEAN HOL NT	27.01 26.37 25.60 25.25	24.76 24.76 23.78 23.90 22.02	22,35 21,50 21,66 21,66 21,63 20,63 20,63	20 19 19 19 10 10 10 10 10 10 10	10.20 17.79 17.37 17.00 16.67	16.37 15.63 15.63 15.55 15.55	14.96 14.96 14.23 13.01 13.33	12.60 12.23 11.61 10.97 10.31	9.65 9.60 8.38 7.60 7.27
T (4) =	SCALE НТ КИ	11.2 16.6 21.2 24.8	00000 00000 00000 00000	479000 47970 47970 47440 47440	0 ~ 0 0 0 0 0 ~ 0 0 0 0 ~ 0 0 0 0 ~ 0 0 0	110 20 20 20 20 20 20 20 20 20 20 20 20 20	61,4 66,4 66,3 66,3 66,3 66,3 66,4 66,4 66	60.0 71.9 77.1 80.3 80.3	00° 00° 00° 00° 10° 00° 00° 00°	114 124 124 124 124 124 124 124 124 124
1460 ⁰ K	PRESSURE DYNE/CA2	2.7226-02 1.3376-02 7.0956-03 5.1136-03	3.5016-03 2.606-03 1.6166-03 1.3536-03 1.0256-03 1.0256-03	7.861E-04 6.101E-04 4.701E-04 3.779E-04 3.010E-04	2,6156-00 1,0599-00 1,5326-05 1,2916-05 1,2916-05	7.2060-05 4.9000-05 3.4056-05 3.4656-05 2.4666-05 2.4666-05	1. 2046-05 9. 1765-06 6. 7135-06 4. 97135-06 3. 6725-06	2.7476-06 2.0716-06 1.5755-06 1.5755-06 1.5095-06 9.3765-06	7.3496-07 5.8298-07 4.6008-07 3.0066-07 3.1366-07	2,6186-07 2,2136+07 1,3956+07 1,6416+07 1,6416+07 1,6416+07
T(14) =	DENS I TY GH/C/13	2.4906-11 8.4506-12 3.9716-12 2.2006-12	1.3446-12 8.7466-13 5.9536-13 4.1056-13 4.1056-13 3.0166-13	2.2166-13 1.6556+13 1.8556+13 9.5996+14 7.4286+14	5. 8006-12 5. 5676-15 3. 6226-15 2. 6936-15 2. 6936-12 2. 9325-14	1.5276-14 1.0236-14 6.9706-15 4.8176-15 3.3706-15	2.3736-15 1.6926-15 1.2176-15 8.0056-16 6.4136-16	4. 6976-16 3. 4596-16 2. 5616-16 1. 9066-16 1. 4266-16	1.074E-16 8.131E-17 6.200E-17 4.762E-17 3.608E-17	2.6016-17 2.2726-17 1.0116-17 1.4606-17 1.1906-17 1.1906-17
• 22	TEHP K	355 502 617 707	776 030 073 906 933	986 179 209 209 200 1005	1013 1014 1024 1026 1032	0701 0701 0701 0701	1501 1501 1501	1052 1053 1053 1053	1056 1056 1056 1056	101101 220101 20201 20201 20201 20201 20201
•илон	ALT Kri	120 130 150	160 170 180 190 200	210 220 250 250 250 250	260 270 200 200	000 000 000 000 000 000 000 000 000 00	\$20 \$60 \$60 \$00	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	620 660 660 700	720 760 760 800

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Model 6

Properties of the Upper Atmosphere as Functions

of Height and Local Time for a Level of

Solar Activity Intermediate Between

Mean and High Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 175 \times 10^{-22} \text{ W/m}^2$ c/s of the solar radiation at a wavelength of 10.7 cm.

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0000 00000 20000 5 6 5 5 5 5 5 6 6 6 6 6 6 03 888889 00000 8 8 8 8 8 8 0 0 0 0 8 ***** を、500日 1、094日 を、013日 1、796日 6,0208 5,9208 5, N (A) /CH3 ອອສບະຫ n (II) /chts 5.024 5.024 5.024 5.024 6.00 1.025 6.00 1.025 6.00 1.025 6.00 1.025 6.00 1.025 6.00 1.025 6.00 1.025 6.02 1.025 7.027 7.025 7.027 7.025 7.027 7. 5.144E からいのかっていたいでした。 . \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 999999 99999 1001 - 99999 00000 000000 00000 33333 00000 00000 N(HG) /CII3 2.4005 1.7405 1.4105 1.235 1.0908 9.5096 9.1288 8.4528 8.4528 7.6000 7.6770 6.74050 6.874050 6.874050 6.874050 6.67280 6.67280 6.67280 5, 79, 19 5, 79, 19 5, 25, 25 5, 25, 25 5, 25, 25 5, 25, 25 5, 25, 25, 25, 25, 25, 2 4.4518 4.4518 3.2706 3.2228 3.2228 2.5000 2.5000 2.5500 2.5500 2.1500 2.1500 1.4005 1.3105 1.2195 1.1355 1.0576 9.8548 9.1368 8.548 8.547 7.4938 7.4938 7.4609 Θ Model 2010 566653 000000 1001 20000 7.6006 3.4776 2.0546 1.3736 9.0500 7.3916 5.7106 4.5156 2.6256 2,942 4.1076 3.0276 2.1996 1.6026 1.1716 1.0796 1.3956 1.3956 7.7366 7.7366 4.3206 3.2376 2.4256 1.8256 1.3756 1.03%6 7.03%6 5.03%6 4.4.03%6 9.4126 9.4126 N(0) /CN3 00000 00000 200000 20000 ***** ~~~~~ 00000 00000 1000 N(02) /CN3 7.500£ 2.249E 9.660E 4.936E 2.7906 1.6006 1.0566 2.6565 6.7565 3,6678 2,6678 1,6518 1,0128 7,1533 2.5028 2.5028 5.5058 6.5158 2.5628 2.5628 2.5628 2.5628 1.3955 7.7016 4.2635 2.3005 1.3216 7.3096 4.1496 2.3376 1.3216 1.4936 6 6 6 6 8 8 6 6 6 6 6 88980 88900 00000 000000 500000 **** 50000 4.000E 1.332E 6.195E 3.365E 2.0306 1.2916 6.5476 5.5216 4.0496 2,861E 2,047E 1,400E 1,076E 7,902E 5,6265 5,5265 3,2055 3,2055 1,7505 1,7505 1.0005 5.7508 3.2008 1.8906 1.8906 2.1706 2.1706 2.1706 7.576 7.576 N(N2) /CH3 4.4558 2.6468 1.5768 9.4228 5.6498 3.3908 2.0508 1.2408 7.5258 7.5208 2.7956 1.7116 1.0506 6.4646 3.9596 °× HEAN HOL HT 22,43 21,55 21,55 21,12 21,12 20,71 20,33 25° 80 25° 80 22° 80 20 20° 80 20 20° 80 20° 80 20 27.01 26.37 25.62 25.30 10.39 7.50 7.10 10.17 6.47 6.20 5.67 5.67 5 • 1 1 5 • 79 5 • 67 5 • 65 3 • 65 3.13 2.60 1.43 0.80 0.16 9.52 6.90 7.75 1053 н 500000 50000 10000 71.0 73.0 775.2 777.6 717.6 SCALE HT KR 11.2 17.0 21.5 25.2 28°0°5 330°5 33°5°5 63.0 65.5 65.1 67.6 67.2 112.1 120.3 129.5 139.5 54.2 55.3 53.6 53.5 54.5 Ē 2.7226+02 1.3456+02 7.9996-03 5.2126-03 2,5655-03 2,5555-03 2,5555-03 1,5545-03 1,6645-03 1,0645-03 8.1625-04 6.319-461 9.0131-661 3.9791-665 3.1779-66 7.7552.05 5.6267-05 3.8198-05 2.7206-05 2.7206-05 1.9956E-05 1.419E-05 1.0375-05 7.6349-06 5.6606-06 5.2606-06 2,5576~04 2,5776~04 1,56711~04 1,56711~04 1,3610~04 1,12404 3.1766-06 2.6666-06 1.6366-06 1.4246-06 1.4246-06 1.4246-06 8.6178-67 6.8328-07 5.4798-07 4.4458-07 3.6518-07 3.0355-07 2.5555-07 2.1766-07 1.0756-07 1.6336-07 PRESSURE DYNE/CN2 °× 1585 1.360E-12 6.093E-13 6.073E-13 4.2017-13 2.094E-13 3.094E-13 14 2.2757~13 1.7576~13 1.2576~13 1.2556~13 9.5506~15 7.7216~15 6.0476~14 4.7156~14 3.7566~14 3.0436~14 3.0436~14 2.4530~14 1,6215-14 1,0946-14 7,4905-15 5,2095-15 3,6465-15 2.610E-15 1.5745-15 1.3545-15 9.6805-16 7.2435-16 5, 3416-16 3, 9566-16 2, 9596-16 2, 8696-16 2, 2000-16 1, 6626+16 1.2576-16 9.5656-17 7.3216-17 5.6418-17 5.6418-17 4906-11 3065-12 96655-12 2135-12 DENSITY GM/C/13 3.4246-17 2.7016-17 2.1506-17 1.7296-17 1.4056-17 T (14) . 355 509 626 716 914999 970149 970199 1022 1063 1071 1071 1076 070 070 070 070 100000 TE NP K 0 HOUR= 0001 160 22002220 250 250 250 200 000000 00000 00000 00000 6600 6600 700 700 720 J Z Z

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	N1A) ZCR3	4.500E 09 1.100E 09 4.014E 00 1.775E 00	0.0176 07 6.6796 07 7.6796 07 2.6276 07 1.5106 07 1.5106 07 5.0286 07	5. 4126 65 3. 3756 65 3. 3756 65 2. 1256 65 2. 32596 65 1. 32596 65 1. 32596 65	5.6278 65 3.5938 65 2.22738 05 1.4428 05 1.4428 05 9.7016 05	4,2016 04 1.6406 04 8,1406 03 3,6206 03 3,6206 03 1.6316 09	N (H) /CH3 6.165E 03	6.0505 03 5.9350 03 5.6226 03 5.7136 03 5.7136 03 5.7136 03	5.502E 03 5.400E 03 5.301E 03 5.205E 03 5.111E 03	5.0195 03 4.9296 03 4.88416 03 4.7566 03 4.6726 03
el 6	N CHE Z CHS	2.4006 07 1.7516 07 1.4226 07 1.2386 07	1.102E 07 1.002E 07 9.227E 96 8.571E 96 8.571E 96	7.53AE 05 7.105E 05 6.727E 05 6.353E 05 6.353E 05	5, 7765 05 5, 5165 05 5, 2505 05 5, 2505 05 5, 0565 06 5, 0565 06	4.4056 06 4.0456 06 3.7216 06 3.4276 06 3.4276 06 3.4276 06	2.916E 06 2.693E 06 2.693E 06 2.609E 06 2.302E 06 2.130E 06	1.972E 06 1.627E 06 1.693E 06 1.693E 06 1.570E 06 1.456E 06	1.351E 06 1.255E 06 1.166E 06 1.083E 06 1.083E 05	9.3578 05 0.7166 05 0.1146 05 7.5566 05 7.0408 05
Mod	N (0) / Ch3	7.6006 10 3.5096 10 2.5786 10 1.3866 10	9,9316.09 7,6196.09 5,7066.09 6,7066.09 2,5746.05	2,6046 09 2,3400 09 1,5246 09 1,5906 09 1,5906 09	1.0978 09 9.1678 08 7.6665 08 6.4516 08 5.4298 00 5.4298 00	3.867E 65 2.770E 65 1.994E 66 1.644E 66 1.644E 06	7.5888 07 5.5308 07 4.0416 07 2.9598 07 2.9598 07 2.1716 07	1.5976 07 1.1766 07 8.6836 05 6.4226 06 4.7506 06	3.5326 06 2.6206 06 1.9576 06 1.9576 06 1.9508 06 1.9916 06	8.1718 05 6.1286 05 6.6048 05 9.4644 05 3.4644 05 2.6118 05
	N1 02) /CH3	7.500E 10 2.264E 10 9.700E 09 4.926E 09	2.7576 09 1.6626 09 1.0206 09 6.5356 08 4.2628 66	2.8556 00 1.9306 06 1.3196 06 9.1006 07 6.3246 07	4.4236 67 3.1096 07 2.1966 07 1.5576 07 1.1066 07	5,6596 06 2,9186 06 1,5176 06 1,5476 06 7,6406 05 4,1806 05	2.210E 05 1.175E 05 6.2806 04 3.370E 04 1.016E 04	9,021E 03 5,3336 03 2,9076 03 1,591E 03 1,591E 03 8,734E 02	4.8136 02 2.6626 02 1.4776 02 1.2386 01 4.5986 01	2.5786 01 1.4506 01 8.1866 00 4.63866 00 4.6386 00 2.6336 00
	N (N2) /CH3	4.000E 11 1.342E 11 6.232E 10 3.388E 10	2.0166 10 1.2706 10 0.3236 09 5.6086 09 3.6566 09	2.6958 09 1.9105 09 1.3666 09 9.8548 08 7.1558 08	5.2265 08 3.8355 08 3.8355 08 2.8265 08 2.0905 08 2.9905 08 1.5510 00	6, 6036 07 4, 8156 07 2, 7146 07 1, 5356 07 1, 7336 05 8, 7336 05	5.0208 06 2.80808 06 1.6688 06 9.6698 05 5.6298 05	3.2846 05 1.9246 05 1.1316 05 6.6706 04 3.9466 04	2.342E 04 1.394E 04 6.326E 04 6.326E 03 4.987E 03 2.996E 03	1.805E 03 1.091E 03 6.610E 03 6.610E 02 4.0185 02 2.449E 02
1053 ⁰ K	HEAN HOL HT	27.01 26.37 25.80 25.27	24.75 24.75 23.75 23.75 22.26 22.26 22.26 22.26	22.80 21.85 21.39 20.95 20.95 20.55	20. 25 19. 78 19. 69 19. 69 10. 78	18, 22 17, 72 17, 92 16, 66	16° 36 15° 04 15° 00 15° 25 25° 30 25° 30	14.93 14.58 14.19 13.76 13.27	12.74 12.16 11.55 10.29	9.59 8.94 8.33 7.75 7.22
T (4) =	SCALE HT KH	11.2 16.8 21.1 24.6	84448 2004 2004 2008 2008 2008 2008 2008	2004 2004 2004 2004 2004 2004 2004 2004	5555 50 50 50 50 50 50 50 50 50 50 50 50	1000 1000 1000 1000 1000 1000 1000 100	00000 0000 00000 00000 00000	70.1 72.2 77.6 77.6 80.7	84.6 84.6 44.6 100.6 100.5	115.7 124.8 134.8 145.6 145.6
1585 ⁰ X	PRESSURF DYNE/CH2	2.7226-02 1.3396-02 7.9016-03 5.1006-03	3.4756-03 2.4756-03 1.7236-03 1.3226-03 1.3226-03	7, 6171-04 5, 5921-04 4, 6051-04 3, 6331-04 2, 6331-04 2, 6331-04	2,3155+04 1,5675+04 1,5140-04 1,2356-04 1,2356-04	6,8948-05 77646-05 3,3376-05 2,3636-05 2,3636-05 2,6096-05	1,2276-05 8,0466-05 6,4776-05 4,7776-05 4,7776-05 3,5500+06	2.658E-06 2.006E-06 1.5276-06 1.174E-06 9.111E-07	7.1526-07 5.6796-07 4.5666-07 3.7196-07 3.0686-07	2.5656-07 2.1726-07 1.8616-07 1.6136-07 1.4146-07
T(14) = 1	DENS I TY GN/CH3	2.490E+11 8.448E-12 3.992C-12 2.218E-12	1.3565-12 8.7026-13 5.9666-13 6.1566-13 6.1566-13 2.9176-13	2.1766-13 1.6176-13 1.2196-13 9.3005-14 7.1746-14	5, 5876-14 4, 3692-14 3, 4765-14 2, 772E-14 2, 772E-14	1.400E-14 9.779E-15 6.663E-15 4.606E-15 3.224E-15	2.2508-15 1.6276-15 1.1716-15 8.4786-16 6.1799-16	4.5296-16 3.3386-16 2.4736-16 1.6420-16 1.3796-16	1.0396+16 7.8766-17 6.0116-17 4.6216-17 3.5826-17	2.802E+17 2.213E+17 1.766E+17 1.425E+17 1.163E+17
2	Te <i>nt</i> K	355 615 646 690	764 816 857 917 917	639 672 665 665	1015 1015 1028 1028 1028	1035 1043 1043 1046 1046	1050 1051 1052 1052 1053	1055 1055 1055 1055 1055 1055	1055 1055 1055 1055	1056 1056 1056 1056
HUUR=	ALT KII	120 140 150	051 051 205 205 205 205 205 205 205 205 205 205	2500 2500 2500 2500	2000 2000 2000 2000 2000	A 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	620 660 660 700	720 740 780 800

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·	NCM	4.5001 4.009 4.009 1.758	8. 604 2. 5211 2. 5211 8. 3931	9.0000 9.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	4.028 3.1016 2.005 1.3005 1.3005 8.45016	9.6555 9.02251 9.122222 9.122222 9.122222 9.122222 9.122222 9.122222 9.12222 9.12222 9.12222 9.12222 9.12222 9.12222 9	N (H) /CM 6.153E	6.034 5.919 5.919 5.999 5.999 5.999 5.990 5.990 5.990 5.990 5.990 5.990 5.990 5.900 5.000 5.0000 5.00000 5.0000000000	8.5.5.5 	5.003E 4.913E 4.8265 4.740E
	-	700 700 700	0000 0000	33933 00000	3 3 3 3 3 0 0 3 3 0	00000 00000	00000 99999	0 00000 000000	00000 00000	000000 000000
del 6	N CHG C CH3	2.400E 1.763E 1.245E	1.1120 1.0096 9.2776 6.6016 0.0206	7.5328 7.0958 6.70505 6.9588 6.0328	5.7376 5.4669 5.2190 4.7578	4.355 3.6755 3.6756 3.5756 3.1175 8.1175	2.6545 2.6545 2.6525 2.675 2.0975	1.9416 1.7936 1.5666 1.5546 1.4326	1.3296 1.2346 1.1466 1.0666	9.202E 8.5616 7.9586 7.4196
MC		0000	6666 66666	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6 8 8 8 8 8 6 0 0 0 0 6 0 0 0 0	8 3 8 8 8 1	00 00 00 00 00 00 00	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	00000 00000000000000000000000000000000	00000 00000
	N (0) / C N 3	7.600E 3.542E 2.099E 1.3996	9 • 9 • 9 • 9 • 9 • 9 • 9 • 9 • 9 • 9 •	2.8170 2.2046 1.5046 1.5346	1.0530 0.746 7.3356 6.13356 5.13356 5.13556 5.13556	3.6598 2.6526 1.5526 1.3556 2.556 2.8556 3.8556	7.1966 5.1966 2.7926 2.7926 2.7926 2.0966	1.494 1.494 1.100 1.12 5.925 5.925 5.935 5.935 5.433 5.433 5.433 5.433 5.433 5.433 5.433 5.433 5.433 5.433 5.433 5.433 5.4345 5.4345 5.4445 5.4445 5.4445 5.4455 5.4455 5.4455 5.4455 5.4455 5.44555 5.44555 5.44555 5.4455555 5.4455555555	3.2926 2.4466 1.8206 1.3576 1.0146	7.565 5.665 4.267 3.203 2.416 2.416 66
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	N(D)	7.5001 2.2785 9.7245	2.716 9.86516 9.86516 6.2555	2. 6020 1. 2200 1. 2220 8. 3210 5. 7950	2.8258 2.8258 1.9030 2.4059 9.471 9.471 9.471 9.471	5.0680 2.6030 7.03998 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.63498 3.64948348 3.6494848 3.6494848 3.6494848 3.6494848448448 3.6494844444444	2.0000 2.0000 2.00000 2.00000 2.00000 2.00000 2.00000	0.5708 7.6508 2.5300 1.3028 7.5778	6-1698 2-3026 1-2768 7.0926 3-9576	2.2156 1.2446 7.0126 3.9656 2.2496
	â	1199	07 50 10 10	666686	00000 00000	004	00000 00000	00000	\$ \$ 8 8 8 8 0 0 0 0 0	6 6 6 6 6 6 6 6 6 6
	NCND	4.0001 1.3521 6.2601 3.3611	1.9950 1.2460 0.0876 5.4020 5.4020	2.5590 1.8006 1.2800 9.1820 6.6370	4.5129 2.5398 2.5398 2.5458 2.	7.8166 7.8166 7.3556 2.4506 1.35566 7.6826	4.490 2.5530 1.45590 8.61090 5.0060	2.916 1.7076 1.0026 3.5006	2,0660 1,22660 7,32386 4,3806 2,6286	1.5816 9.5416 5.7746 3.5056 2.1336
1053 ⁰ K	MEAN Mol NT	27.01 26.36 25.79 25.24	24.71 24.19 23.66 23.66 23.66 22.60	22.20 21.73 21.73 20.65 20.43	20,05 19,67 16,52 16,59 16,69	12°,53 13°,55 14°,55 16°,53 16°,53 16°,53 16°,53	16.39 16.39 15.37 19.47	14,55 14,55 14,50 14,20 14,20 14,25 14,555 14,5555 14,5555 14,5555 14,55555 14,5555555555	12.61 12.62 11.39 10.74 10.07	9.42 6.76 6.17 7.60 7.09
T (4) =	SCALE HT KN	11.2 16.6 20.7 24.1	27.0 29.5 31.8 33.9 53.6 53.6	ていした。 、 、 、 、 、 、 、 、 、 、 、 、 、	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	88889 89889 89899 89899 89999 80999 80099 80099 80099 80099 8009 8009 8009 8009 8009 8009 8009 8009 8009 8009 8009 8009 8009 8009 8000000	8 • • • • • • • • • • • • • • • • • • •	70.2 72.4 77.9 77.8 81.2	85.3 90.0 95.5 101.9	117.5 126.6 137.0 146.1 159.8
¥	SSURE E/Cri2	26-02 36-02 36-03 56-03	78+03 06+03 06+03 06+03 06+03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2010 2010 2010 2010 2010 2010 2010 2010	2000 11100 0000 00000 00000	00 10 10 10 10 10 10 10 10 10 10 10 10 1	26+06 26+06 26+06 26+06	76-07 96-07 96-07 96-07	06-07 26-07 56-07 26-07 36-07
1585	PRE DYN	2.72 1.33 7.80 4.49	2.33 2.37 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50	200012 200022 20202	20127 2012017 20127 2010		1.14 0.20 5.00 3.32 9.32	2. 49 1. 49 1. 49 8. 56 6. 56 6. 56 6. 56 6. 56 6. 56 6. 56 6. 56 6. 56 6. 56 7. 56	2.92 2.92 2.92 2.92 2.92 2.92	2.445 2.076 1.7868
(14) =	ENST Y A/CM3	06-11 .06-12 .26-12 .66-12	28-12 06-13 156-13 156-13 156-13	126-13 126-13 176-13 126-14 126-14	138-14 186-14 146-14 146-14 176-14	85-14 175-15 186-15 386-15 96-15	28-15 38-15 68-16 28-16 28-16 28-16	78-16 26-16 36-16 36-16 06-16	46-17 46-17 16-17 16-17 36-17 36-17	48-17 46-17 66-17 76-17 36-17
T	ŭ Ö	252 26 26 26 26 26 26 26 26 26 26 26 26 26	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	2000 200 200 200 200 200 200 200 200 20		2.50 2.50 5.70 5.70 5.70 5.70 5.70 5.70 5.70 5	22222 2222 2222 2222 2222 2222 2222 2222	82.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2. 03 2. 08 1. 36 1. 10
-2 *	TENP K	355 497 603 604	748 798 039 873 903	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$95 1003 1010 1021	1029 1025 1035 1042	1040 1040 1040 1040 1040	1055 1055 1052 1052	100100100000000000000000000000000000000	2001 2001 2001 2001 2001 2001
ночк	ALT KH	120 130 150	160 170 190 200	210 220 220 250 250	260 260 260 260 260	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	420 440 460 500	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	650 666 700 700	720 770 760 760 860

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	N (7) V (8)	4.5006	3, 9920 3, 9920 1, 7220		8,398F	7.2000 2.2000	1.3676	8.031E	4.031E	2.963F	1.8475	1.1675		5 - 509 E	3+1470 9-0480	1,3498	8.9336	3.9691		6.160F	3.757E	1691.1	(11) M		10112	6.043E (5.936E (5.7225	5.619E	5.518E (5.420E (5.3256 (5.231E C	5.1405 0	2.05LE C	4.964E J	4.879E C	4.7966 0	4.636F 0
. [N(HE) N(HE) ZCR3	2.4006 07 1.7735 07	1.255E 07		1.115E 07	-9,238E-66	C. 540E 06	1. YOUE UG	7.442E 06	6.9985 06	6.604E US	6.2515 06 5.9325 06		5.6421 D6	5.1297 05	4,900E 06	4.687E U6	4.239F 06	3.9556 06	3.646E 06	3.3678 06	00 JUTTO	2.801E 06	2.669E 00	2.4/5E ()6 2 2025 02	2.132E 06		1.980E 06	1.711E 06	1.592E 06	1.482E 06	1.3805 06	1.2055 06	1.198E 06	1.1176 06	40 3160 F	9.717E 05	9.071E 05	8.4/1E US	7.395E US
ž	N(0) V(K3	7.600E 10 3.571E 10	2.1145 10 1.402E 10		9.929E 09	5.5746 09	"4.333E 69 3.6265 00	60 JC23.40	2.7446 09	2.222E 99	1.816E 09	1.2385 09		8.620F 00	7.2365 08	6.094E 09	5.147E 08	3.697E 08	2,6756 08	1.947E CB	1.424E 05 1.0456 20		7.6385 07	5.6786 07	4.2045 UT	2.320E 07	10 000X 1	1.2916 07	9.656E 06	7.236E 06	5.432E 06	4.085E 06	3.077E 06	2.322E 06	1.7995 06 1.3995 06		1.0.7E 06	(.692t 05 f 031f 0f	2.6246 05	3.3645 05
	N(02) /CH3	7.500E 10 2.251E 10	9.724E 09 4.857E 09	2.4646.00	2.5605 09	9.538E 08	6.0266 08- 329066 08		2.504E 08	1.7305 08	1.1720 US	5,6915 07	3 2055 07	2.8246 07	2.0036 07	1.435E 07	1.030E 07	5.358E 06	2.831E 06	1.5085 06	8.0925 05 6.3725 05		2.3/1E 05	1.235E US	3.916F 34	2.167E 04	1 20.20	6.716F 03	3.759E 03	2.112E 03	1.190E 03	6.733E 02	3.821E 02	2.176E 02	1. 275 UZ	4	4.098E 01	2.3045 UI	7.9625.00	4.625E 00
	N (N2) /CM3	4.000E 11 1.360E 11	6.270E 1) 3.361E 19	1.9675 10	1.2196 10	7.8666 09	5,232E Q9 3,563E 09		2.472E 09	1 - 141E US	B.952F 00	6.509E 08	4.7675 08	3.5146 08	2.6045 08	1.9385 08	1.4495 08	8.1776 07	4.6665 07	2.000 Burne 07	1.25/6 U/ 9.077E 06		9,30%E 06	3.1205 UD	1.097E 06	6.533E 05	3.9055 05	2.342E 05	1.409E 05	8.501E 04	90 J041.0	3.125E 04	1.9036 04	1.162E 04	4.373E 03		2.694E 03	1.031F 03	6.402E 32	3.987E 02
1053 ⁰ K	NEAN MOL WT	27.01 26.36	25,78 25,22	24.63	24.16	23.64	23.14 22.65		22.17	21.27	20, 85	20.45	20,06	19.70	19,36	19.04	10.15	16.21	17,74	17.34	16.67	06 91	16.12	15.85	15.60	15°33	15.04	14.72	14.36	12.97	··· • • • •	13.05	12.52	11-96	10.74		10.11	0.00	8.29	7.75
T (4) =	SCALE HT KH	11.2	20,5 23,8	26.5	29.4	31.0	34.1 36.3	4 4 4 4	50° 3	1.22 7.25	43.8	45.5	47.1	48°6	50.1	ະ 	3776	55°2		59°4	62.9	64.5	66.1	67.6	69.2	70.9	72.7	74.8	11.1	82.8		86.4 20.7	6.08 A 30	0.101	107.4		123.0	132.2	142.3	153.2
1585 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3276-02	/./]/E-03 4.912E-03	3.3075-03	2.3165-03	1.6716-03	1.209E-03		5.5070-04	10-06-04	3.4226-04	2.735E04	2,2046-04	1.7885-04	1.400E-04			6,834E-05	4.1910-05 2 2020 20	3.4025405 2.6625405	1.7695-05	20-3(52-(9.503E-06	7.0456-06	5.259E-06	3.9526-06	2.\$91E-06	2.260E-06	1.752E-06	1.33/6-06		8.375E-07	5.2866-07	4.3926-07	3, 4248-07		3.0216-07 2.5586-07	2.1866-07	1.6906-07	1.650E-07
T(14) =	DENS LTY GAZCH3	2.490E-11 8.564E-12	2.2056-12	1.3265-12	8.4736-13	5.6515-13 2.0166-12	2.7805-13	2 0101.0	L. 4955~13	1.1245-13	8.5798-14	6 • 62 65 ~] 5	5 r J 74E - 1 6	4.0796-14	2 - 2965 - 78	2,0596-17		1.394E-14 0.4575-15	804557515 6 5975-15	4.571F-15	3.242E-15	2.320E-15	1.678E-15	1.2236-15	8.968E-16	6.618E-16	4.911E-16	3.663E-16	Z. (46L-16 2 366E-17	1.566E-16		1.191E-16	7.0186-17	5.4376-17	4.2426-17	5 - 1366 6	2.6436-17	2.1146-17	1 • 707E - 17	1.393E-17
÷ در	ТЕНР К	355 491	070	141	757	0.29 R 76	C16	938	962	9 83	0001	1015	1026	1039	1052	10.62	i	1074	2001	1001	1094	1096	1098	1099	1100	1101	1011.	1102	2011	1103		1103	1103	1104	1104	1100	1104	1104	1134	1104
HOUK	ALT Kn	130 130 130	150	160	170	00 1	203	210	220	230	240	552	260	012	002	300		320 340	560	380	00%	420	440	160	4 80	206	520	075	58.)	60C		620 640	699	683	700	720	(4)	760	787	s n c

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NUUH	= 12	T(14) =	1585 °K	T(4) =	: 1053 ⁰ K					
ALT	TENP K	DENSITY GR/CH3	PRESSURE DY:07CM2	SCALE HT KU	REAN HOL HT	N (N2)	N (02)	W (0) N	lodel 6 N(HE)	(V) N
120	3.6.6			22	HUL HI	7013	/СИЗ	/CH3	/CH3	7013
130	101	8.4276-11 8.4276-12	Z.722E-02 1.340E-02	11.2	27.01	4.0006 11	7.5008 10	7.600E 10	2.4006 07	4 - 500E C
140	634 754	3.902E-12 2.123E-12	7.968E-03 5.258E-03	21.0	25.31 25.31	6.094E 10 3.249E 10	2.2585 10 9.4985 09 4.7665 00	3.499E 10 2.024E 10	1.4076 07 1.4076 07	1.09850 3.94150
160	0 63	1.2656-12	3.710E+03	1.0	10 10			. 1.5126 10	1.1865 07	1.731E 0
64.1	6 50	6.391E-13	2.7416-03			1.923E 10	2.6586 09	9.178E 09	1.037E 07	0.6806
1 00	1043	5.792E-13	2.0935-03	10.0 10.0	2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1•220E 10	1.6135 05	6.752E 09	9.261E 05	0 3522.4
051	1115	4.166[-13	1.6366-03	42.5	23,61	50 3177 a	1.0385 09	5.2176 09	8.422E 06	2.6156 0
n n Z	87 11	3.0976-13	1.3006-03	65.0	23.23	4.172E 09	4.651E 00	4.136E 09 3.3555 69	7.761E 06 7 2276 06	1.7445.0
21.0	1231	2.3605-13							nn 177.	1.1227.1
220	1277	1.6361-13		1.2.5	22.67	3.0665 09	3.440E 06	2.772E 09	6. 7RAF DA	0 3077 6
230	1316	1.452[-13	7.1615-60		22*52	2.3260 09	2.518E CO	2.322E 09	6.4065 0A	
240	1349	1.1646-13	5.9746-04	2 4 2 2 4 2 2 4 2 2 4 2	21.52	1 4366 09	1.6635 00	1.56YE U9	6+035 DC	2 日本のです。
250	1377	9.615E-14	5.0216-04	58.6	21.54	1.079F 09	1.3976-06 1.0566-66	1.602E 09	5.799E 06	2.4535 0
260	1401	7.7365-16	1 2120 - 1	2				1.4900 00	2.24/E 06	1.7455 0
270	1422	6.3046-11		1.00	21.23	·0.5126 CC	20 2060*9	1.257F 09	5.2000 DK	
200	1439	5-3236-14		62.6	20.94	é.742E c.	6.237E 07	1.0928 09	5.1136 06	0 101010 0 101010
290	1454	41-2020-14	2.6465-05	66.45 66.42	20-65 20-26	5.4030 00	4.835E 07	9.584E 00	4.9250 06	6.6126 C
300	1467	3.7596-14	2.2756-04	67.6	20.11	14,0000 UG	3.7695 07	8.418E 08	4.750E 06	4.873F 0
					779/179	0	Z.951E 07	7.417E 05	4.538C 06	3.5995 05
360	1407	2.711E-14	1.7096-05	71.0	15,51	2.2905 08	1.8306 NY	5 801E 00		
360	1513	1.4909E+14	1.2965-04	73.6	19.15	1.526E 00	1.1486 07	4.5725 DR	4.294E 06 A 0335 04	1.9895 0
300	1521	1.1156-16	7.45051-05	76.5	18.73	1.022E UB	7.2735 06	3.5266 08	3. 7955 DA	1.115E 05
400	1527	0.488E-15	5.9865-00	7	15.35	6.892E 07	4.640E 06	2.988E 09	3.5796 06	20 UND 10
				C•10	1 6.6 00	4.672E 07	2.97UE 05	2.3096 06 -	3.3796 06	2.076F 0/
4 2 0 7 6 0	1531	6.51615	4.6895-05	83.4	17,69	3.1735 07	1.010E.00			
	57 C	5.048E-15	3.701E-05	8.28	17.40	2.1725 07		1.6515 08	3.1945 06	
0034	1530	3.939L-15 3.00/F-15	2.9376-05	87.5	17.24	1.490E 07	8.001E 05	1.199F 08	3.0225 DG	(H) N
200	1540	2.446-15	2+3421-05 1 8775-05	ຕໍ່ ວ່າ ເ	16.50	1.025E 07	5.274E 05	5.681E 07	2,7115 06	2017
		1		71.1	16.68	7.075E 06	3.453E 05	7.829E 07	2.570E 06	5.4405 03
520	1541	1.94.06-15	1.5106-05	92.9	16.47	102000	10100			
	2221	1.5465-15	1.2206-05	94.6	16.27	3,396E 06	2.496F 05	6.342E 07	2.437E 06	5.3756 03
5 80	1546	4.4775-11 9.4725-11	9.894E05	4.92	16.08	2.361E 06	9.8645 04	4-1215 07	2.3196 06 2 1066 01	5.3036 03
607	224	8 U48F-16	6.6836±06	1.35	15,00	1.6466 06	6.532E 04	3.401E 07	2.085F 06	10 1747.00 1747.00 1747.00
			0	6 • 5 G	12.10	1.150E 06	4.3378 04	2.7715 07	1.9605 06	60 2003°G
620	1545	6.5176-16	5.3966-06	101.8	15.51	8.049F 05	2 0446 04			
0%) 	1545	5.2946-16	4.4435-66	103.7	15.3)	5. AARE DE		Z. ZOUE 07	I.882E 06	5.034E 03
000	1545	4,3146-16	3.670505	105.8	15.10	3.9715 05	1 3001 01	1.8465 07	1.785E 06	4.970E 03
000	1546	3.525[-16	3.0445-06	6°1CT	14.08	2.7985 05	1.4200E 04 8 6365 03	1.510E 07	1.701E 06	4.907E 03
n n n	1949	2. 888E-16	2.534E-06	110.3	14.65	-1-976E 05	5.804F 03	1.0126 07	1.617E 06	4.8445 03
120	152.6	, 1771 - C						10 3670.17	1.539E UG	4.705E 03
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1585 ⁰ K	PRESSURE DYNE/CK2	2.7226-02	1.350E-02	6.131E-03	3.805E -0 3		2-2326-03	1.7586-03	1.4106-03	1-1476-03	1-14/E-03	7.5355-04	6.5586-04	5.527E-04	1 6665-01			70-14500 - N	2.536E-04		1-908E-04	2-52E-04	L.1166-04	8-6276-02 4.7656-05		5-3196-05	4.1111-100 4.447-00	2.6835-05	2.1565-05		1.411E-05	1.148E-05	9-3605-06	7.6865-06	6.324E-06	5.220E-06	4.324E-06	3.5946-06	2-999E-05	2.511E-06	2.1116-06	1.7016-06	L-510E-06	k.2855-06
T(14) =	DENS I TY GH/CH3	2-490E-11	8.3195-12	2.123E-12	1-3016-12	8.5926-13	5.994E-12	4.355E-13	3.263E-13	2.5056-13	L. 961E-15	1.5556-13	L. 256E-13	1.023E-15	8-417cm14	6.9755-16	5.8226-14	4.891E-14	4.131E-14		2. 991E-14	6-5016-16 	1.043E-14	9.4756-15		7.2935-15	07-0000-0 9-0232-12	3.4916-15	2.7665-15		2. 2036-15 1.7636-15	1-4176-15	1.143E-15	9.2585-16	7-5236-16	6-133E-16	5.014E-16	4.111E-16	3. 3805-16	2.7876-15	2.503E-16	1.908E-16		1 = 2 V C C 1 0
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	N(N2) /CH3	6.000E11 1.311E11 6.032E10	1.9806 10 1.2996 10 0.2220 09	6.565E 09 3.404E 09	2.5626 00 1.9655 00 1.5635 00	9.567E Co 7.7.20E Co	6.0022 00 6.0022 00 4.8042 00 3.9371 00	2.553E 08	1,7135 OU 1,1445 OG 7,6985 C7	5.2076 07	3.532E 07 2.410E 07 1.650E 07	1.1345 07 7.8125 06	5.399E 06 3.742E 06	2.5998 06 1.8105 06 1.2665 06	6.844E 05	6.203E 05 4.350E 05	3.071E 05 2.167E 05	1.533E 05 1.007E 05	7.717E 04 5.491E 04 3.915E 04
1053 ⁰ K	HEAN MOL WT	27.01 26.38 25.37 25.37	200 200 200 200 200 200 200 200 200 200	23.36	22:02 22:02 22:02 21:40	21.40 21.10	20.55 20.55 20.26	19.75	15, 25 15, 65 15, 65	16.09	17.77 17.67 17.21	16.73 16.73	16.52 16.32	16.13 15.94 15.75	15.56	15.36 15.16	14.94	14.47 14.21	.3• 93 .3• 63 .9• 31
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1585 ⁰ K	PRESSURE DYNE/CR2	2.7226-02 1.3576-02 8.2365-03 5.5345-03	3.9566 2.9586 2.2586 2.2705 1.03 2.2705 1.03 2.2555 1.03	1.4276-03 1.1576-03	9.5011-002 7.651-002 6.5511-002 5.4910-02	4.6305	3.3596 2.6776-04 2.4768-04	1。6466~04 1.2000~04	1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	6.3985,05 6 6665 62	8, 100 100 8, 100 100 8, 100 100 100 100 100 100	L.968F-05	1.597E-05 1.2895-05	1.0~>6~05 6.4966~06 6.9366~06	5.603E-06	4.6745-06 3.859E-06 3.1675-06	2.659E-06	2.221E-06 1.662E-06	1.3276-06
T(14) =	DENS LTY GAZCH3	2.4906-11 8.2506-12 3.8566-12 2.1416-12	1,3226+12 6,76274-13 6,1557-13 6,1557-13	3.3502-13 2.5092-13 2.6002-13	1.5935-13 1.2802-13 1.0402-13	8.5220-14 7.0418-14	5.8588-14 4.9040-14 4.]286+14	2、9675~14 2。1696~14	1.608E~14 1.207E~14 0.1605	7.0168-16		2-6040-15	2,064E-15 1,644E-15 1 3154 5	1.0576-15 8.5196-16	6.892E-16	9.9996-16 4.5556-16 3.7196-16	3.046E-16	2.501E-16 2.059E-16 1.699E-16	1.4076-16 1.1686-16
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рои	N(0) /CH3	7.600E 10 3.436E 10 2.020E 10 1.349E 10	9.699E 09 7.310E 09 5.627E 09 5.526E 09 3.6621E 09	2,0996 09 2,6018 09 2,6078 09 1,7336 09 1,7336 09 1,4598 09	1.2346 09 1.0476 09 0.9026 08 7.5896 08 6.4826 00	4.7536 08 3.5036 00 2.55336 03 2.55336 03 1.9256 03 1.4346 03	L.0686 08 7.9958 07 5.9978 07 4.5078 07 3.3958 07	2.5616 07 1.9366 07 1.4666 07 1.4666 07 1.126 07 8.4506 06	6.431E 06 4.902E 06 3.743E 06 2.063E 06 2.193E 06 2.193E 06 1.293E 06 1.293E 06 9.947E 05 7.647E 05	a a constant
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	N(NZ) /CH3	4.000E 11 1.320E 11 6.129E 10 3.372E 10	2.0406 10 1.3156 10 8.6166 09 6.0916 09 4.3056 09	3.0946 03 2.2526 09 1.6566 09 1.25276 09 9.1596 09	6,0716 00 5,1706 00 3,9176 08 2,9726 08 2,9726 08 2,2628 05	1.320E 08 7.765E 07 4.555E 07 2.734E 07 1.635E 07	9.761E 06 5.001E 06 3.557E 05 2.150E 06 1.314E 05	8.0276 05 4.9196 05 3.0236 05 1.8646 05 1.1526 05	7.1456 04 4.4436 04 2.7708 04 1.7328 04 1.0568 04 4.3066 04 4.3066 03 2.7226 03 1.7226 03	
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585 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3528-02 8.1278-03 5.3628-03	3.7406-03 2.7066-03 2.6106-03 1.5236-03 1.1726-03	9。) 416-04 7、2046-04 5.7316-04 4.5366-04 4.5366-04	3,0196-04 2,4496-04 2,6306-04 1,4776-04 1,3526-04	9.700E+05 6.056E+05 4.503E+05 3.550E+05 3.550E+05 2.591E+05	1.900E-05 1.408E-05 1.051E-05 7.8966-05 5.966-05	4.539E-06 3.474E-06 2.676E-06 2.676E-06 2.075E-06 1.621E-06	1.2776-06 1.0136-06 8.1156-07 6.5648-07 5.3636-07 4.4266-07 3.6926-07 3.1136-07 3.1136-07 3.6526-07	2.285F-0F
T(14) = 1	DENSITY GH/CM3	2.4506-11 8.5076-12 3.9286-12 2.2016-12	1,3636-12 0,9976-13 6,2136-13 6,2136-13 6,4336-13 3,2436-13	2,4206-13 1,0355-13 1,0355-13 1,6105-13 1,0965-13 1,0965-13 0,5905-14	6, 8018-14 5, 6818-14 4, 3638-14 2, 6708-14 2, 6708-14	1.9296-14 1.3216-14 9.1926-15 6.4928-15 4.6576-15	3.3376-15 2.4306-15 1.7046-15 1.3106-15 9.0056-16	7.333E-16 5.512E-16 4.1635-16 3.1552-16 3.1552-16 2.4086-16	1.843E-16 1.415E-16 1.615E-16 8.512E-17 6.649E-17 4.131E-17 3.209E-17 2.639E-17	2.1341-17
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<u>Model 7</u>

Properties of the Upper Atmosphere as Functions

of Height and Local Wime for a Lower Level

of High Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynas cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂ O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 200 \times 10^{-22}$ W/m² c/s of the solar radiation at a wavelength of 10.7 cm.

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el 7	к (не) /Снз	2.400E 07 1.703E 07 1.380E 07 1.180E 07	1.0589 07 9.6226 06 8.8776 06 6.2720 06 7.7550 06	7.5257 95 6.5557 95 6.2555 95 6.2555 95 6.2555 95 6.0556 95	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	本 、 、 、 、 、 、 、 、 、 、 、 、 、	3,1476 06 2,9355 06 2,7395 06 2,7395 06 2,5576 06 2,3896 06	2.232E 06 2.007E 06 1.953E 06 1.953E 06 1.827E 06 1.711E 06	1.6J3E J6 1.5D2E J6 1.400E J6 1.320E C6 1.238E V6	1.162E 66 1.091E 66 1.025E 06 9.625E 06 9.625E 05 9.046E 05
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	N (02) / C H 3	7.5006 10 2.2026 10 9.5926 09 5.6116 09	2.9026 09 1.7946 09 1.1602 09 7.7845 05 5.2076 05	3.6238 00 2.5533 00 2.5535 00 2.3336 00 2.33360 00 2.33260 00	7.0528.07 5.2558.07 8.7556.07 2.5058.67 2.5058.67 2.0768.07	1.1518 07 6.4548 06 3.6228 06 2.0528 06 2.0528 06 1.1668 06	6.696E 05 3.868E 05 2.220E 05 1.286E 05 1.286E 05	4.362E 04 2.553E 04 1.550E 04 8.838E 04 8.838E 03 5.225E 03	3.0986 03 1.6436 03 1.1306 03 6.5038 02 3.5528 02	2.3006 02 1.4376 02 8.7036 01 5.2866 01 3.2206 01
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1729 ⁰ K	PRESSURE DYNE/CN2	2.7226-02 1.3266-02 8.3196-03 5.5540-03	3.9120.05 2.0560.03 2.1396-03 2.1396-03 1.6331-03 1.2660-03	9. 9880-00 2. 5040-00 2. 311-00 2. 311-00 2. 10024 2. 100	8, 50560 02 2, 20110 00 2, 20110 00 1, 9120 01 1, 9220 01	1,1250-06 8,0238-05 5,7998-05 5,2358-05 3,2358-05	2.3216-05 1.7376-05 1.3056-05 9.9196-06 7.5626-06	5,7995-06 4,4725-06 3,4695-66 2,7675-06 2,1256-06	1.680E+06 1.337E-06 1.073E-06 8.674E-07 7.674E-07	5.8208-01 4.8346-01 4.0548-07 3.4328-07 3.4328-07
T(14) =	DENS I TY GN/CM3	2.4906-11 8.1906-12 3.9585-12 2.2168-12	1.3866-12 9.2386-13 6.4326-13 4.4326-13 4.4249-13 3.4076-13	2,5598-13 1,9529-13 1,5027-13 1,5027-13 1,1502-13 9,3168-14	7. (171-17 5. 9-11-17 5. 8-35-15 5. 8-35-15 3. 9061-18 3. 1950-15	2,170,-17 1,5016-15 1,65-6-14 1,5116-15 7,5116-15	3.9476-15 2.5626-15 2.1516-15 2.1516-15 1.6646-15 1.2046-15	9, 0935-16 6, 9006-16 5, 2606-16 4, 0285-1 3, 0976-15	2,3916-16 1,854-16 1,6446-16 1,1291-16 8,8726-17	7.0056-17 5.5626-17 4.4396-17 3.5656-17 2.8826-17
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	N (D)	/CH3	7.600E 10 3.404E 10	2.0135 10	1-2256 10	9°773E Co	7.3035 00		3.1016 0		A-U-20E 00	20 3003°Z	2.753F 05	L. C. 1 IE (1)		1. 5775 CD		7,0586 60	6.545 00		4.0000 000 2.0537 000	2.035E 00	30 3000.1	L.467E 03	1.100E 00	8.250E 07	6.216E 07	\$.6858 07 3.5426 07		2.603E 07	2.035E 07	1.1776 07	6.976F 06		6.853E 00	5.242E 06	4.010F 06	2.3688 00		1.8235 06	1.4436 Ub	1.237E 05	6.494E US	
	1(02)	7015	7.500E 10 2.216E 10	9,634E 09 5,006E 00		2.8756 69	1,1265 00	7.4245 08	- 5,022E 08	2 1626 01	00 0007 v	1.650 GO	2.2021 66	0.673E 67	6 2000 02		3.3100 07	2.4225 07	1.77af 07	Q.KAND CO	5.3015 UA	2.930E 06	2.630E 60 0 1105 00		5.130E 05	2.857E 05	1.66935 05 0.3535 05	5-3451 05		3.0668 04	1, 71 OF 22	5.906E 03	3.4346 03			6. 8816 03	4.0525 02	2.3936 02		1.418E 02 A.428E 01	5.0246 01	3. 3031. 01	1. SULL 01	
	N(112)	0.15	6.0006 11 1.3116 11	6.1526 10 3.4076 10		2.072E 10	6,952E 09	6.21.05 09	4.307E 03	3.1516 00	2.2925 00	1.6656 09	1.261.09	30 BERE'S	6,950F 00	5.2796 00	2°266 80	3,0305 00	Z.S17E 00	1.350E CP	U.020E 07	4.7705 ul	2,0245 07 1,715F 07		1.036E 07	6.283E 06 3.422E 06	2.334E 06	1-4306 06	i i i i	6. (996 05 5. 6166 05	3,3506 05	2.078E US	I.292E U5	8-961F 96	5.042E U4	3.162E 04	1.9896 04	1.254E 04	7.9225 12	5.029E 03	3.197E 03	2.038E J3	1+1060 JB	
* 1159 0 _K	NDE LT		26.33 26.33 26.33	20,95 25,95	27.02	21.00	23.95	01 ° 6 N	00000	22.05	22:23	21,612	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C>14.4	ちょうて	26.25	ي ال ال سر ال		よいもうだ	16, 75	10,25	1 4. 52	17.00		16.26	16.24	15.99	15,75	1 5 50	15.24	14.95	14.65	14.31	13.93	13.52	13.07	12,58	12.06	11.50	10.93	10.35	9.76 9.15	2	
L (4) -	SCALE HT KII		いいい	20.2	29.6	1 CA 1 CA 1 CA 1 CA	34.9	- 5.5 - F	3410	·]	42.9	44.6 22		-	4.9.42			े		57.0		55.55 52.52	65.0	4 Y Y	60.2 60.3	65.0	72.64	5.51	70.6	76.3	70.2	300°4	טכיט	£5°5	69.6	92.2	96.4	7 ° 7 N 7	106.6	112.9	5.5.T	26167		
1729 ⁰ K	PRESSUNC DYNEZONZ	2.7226-03	1.3606-02 8.2235-03	5.4446-03	3.6016-03	2.751.E65	2.0430-09	1.2010.000		\$.1021-0					3,0750+00			1.5251-10		9-9460-05 7 9-46	5.0010-00 5.0010-00	8.6200-00	2.6076-65	1,9045446	1-4755-05	1.1046-05	8.317E-C6	0.3U.L.C.0	4,506E-06	3.607E-00	2.046E-06	<pre><<</pre>		1.365E-06	L.004E-06	8.692c~07	5.7616-07		4.7356-07	3.9456-07	2.8276-02	2.4336-07		
T (14) =	0EN3L17 607C03	2.4905-11	8.2500-12 3.9340-12	2+222E-12	1-3626-10	9.1465-13	0.0708-20 6.5116-12	5-100X-5					6 6 7 5 C 2 C				3. 2016-16	2.4156-1.		1.963E-14 1.3006-12	9.4026-15	6.6535-15	4.7655-15	3,4506~15	2.5206+15	1,8558-15	1.9776-15 1.0276-16		7 • 6948) 6	5.80)E-16	3.3636-16 3.3636-16	2.555E-16	3	1。951E-16	1.17)6-16	9.1165-11	7,1336-17		5.613E-17	4.4446-11 3.5416-17	2.8426-17	2.2776-17		
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lel 7	N(HE) /CN3	2.400E 07 1.735E 07 1.414E 07 1.218E 07	1.002E 07 9.003E 06 9.003E 06 8.345E 06 7.772E 06	1.3150 6.5356 6.5356 6.5356 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	5.0500 06							0.15021 0.0	9,0400 00		2. 155 05	2.313E 36	2.163E 06 2.0000 06	1.3938 06	3.7726 06 1.659E 06	1.554E 36	1.457E 06	1.281E 36	1.232E J6	1.128E 06	9.954E J5	9.353E US 8.793E US	
Mod	N(0) /CM3	7.600E 10 3.463E 10 2.042E 10 1.367E 10	9.785E 09 7.3175 09 5.4435 09 4.4435 09 3.5635 09					6.300.00		うい へいごまうき		20 2222413	1.0000 000 	6.1011 0. 6.12005 07	4.7426 07	J.6 3248.6	2.7096 07	1.5388 07	1.259E 07 9.686E 06	7.465E 06	5.763E 06	3.450E 06	2.675E 06	2.378E 06	1.2596 36	9.8182 05 7.6685 35	
	N(02) /C43	7.5008 10 2.2438 10 9.6642 09 4.9468 09	2.795509 1.685509 1.061509 6.915209 6.915209			- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		1-0000			5 (5) 5 (7) 5 (7) 5 (7) 7 (8) 7 (8)	9.11.12 VS	5.2136 05	3.2006 V.) 1.7346 VS	1.0048 05	5.86%6 04	3.4315 04	7.184E 04	6.993E 03 4.142E 03	2.461E 03	1.467E U3	5.259E J2	3.163E 32	1.908E 02	7.0036 01	4.261E J1 2.600E D1	4) 3374
	H(N2)	4.0006 11 1.3206 11 5.1926 10 3.3366 10	2.029E 10 1.290E 10 3.550E 09 5.0505 09 4.005 09	500000 1000000	j 2 1 k 1 k 1 k 1 k 1 k 1 k 1 k 1 k 1 k 1 k		2.e ⁷ 04 co 1. 1. 1. 1.					1.70.18 0/	1.0 more.	sur 1771 us sur 1771 us	9. 10111 10111 101	1.5458 05	9.657E 05	6.0356 05 3.8056 05	2.399E U5 1.516E 05	9.6135 04	6.110E U4	2.4896 U4	1.594E 04	1.024E 04	6.258E U3	2.756E 03 1.788E 33	1 2 2 2 4 4
1159 ⁰ K	MEAN MOL NT	27.01 26.37 25.82 25.31	24-81 23-84 23-41 22-41 22-96	8 4 8 0 8 4 5 0 8 4 4 4 5 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	4 4 4 4 7 7 7	n —4 5 c 4 6 - 7 2 c 5 7 c 5	ta an Atras Maria Maria		یں۔ انداز انداز ان انداز انداز اندا	1111 1111 1111	1 - 1 1 - 1	11.62	16.79		16.01	15.79	15-55	15.04	14°43 14°43	14.33	13.70	13.28	12.34	11.82	11.28	10.16 9.59	ר ה ה
T (4) =	SCALE HT KM	11.2 17.1 21.6 25.4	2898 2999 2999 2999 2999 2999 2999 2999	4 4 4 4 4 		1 7 1	,	••••		21 		61.2	6.85	9 • 07 • 07	1.2.	75.3	75.9	19.09	82. 10.28	87.6	90.6	94.0	102.4	107.5	119.8	127-2	1-07
729 ⁰ K	PRESSURE DYNE/CM2	2.7225-02 1.3485-02 8.0426-03 5.2568-03	3.6216-03 2.6058-03 1.9238103 1.4516-03 1.4516-03 1.146103	8. 5816-04 5. 8446-04 5. 4466-04 5. 4056-04 404-8046-04		人名利尔特 化合金属				いい ひょうさい ひつ ちゅうひょう		217376-00	2.0396-39			0.721E-U6	5.1685-06	3.997E-06	2.433E-06 1.917E-06	1.5236-06	1.2145-05	9.776E-07 7 936E-07	6.49BE-07	5.3736-07	4.479E-07	3.208E-07	4.1000-01
T(14) = 1	DENS I TY GM/CM3	2.490E-11 8.362E-12 3.964E-12 2.213E-12	1.358E-12 8.070E-13 6.054E-13 4.274E-13 3.100E-13	2.2976-13 1.7326-13 1.3266-13 1.0296-13	******	6.3755-14 5.1125-14		1-1-10-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	L. 614	1997 1997 1997 1997 1997 1997 1997 1997		4.0.10 - 10	3. \$30ē~15	2.5348-15		1.0558-15	8.J10E-16	6.0985-16	3.576E-16 2.755E-16	11121	1.657E-10	1.293E-16	1-3086*1	6.317E-17	5.028E-17	3.242E-17	2.03UET11
Ŷ	TENP K	355 511 723	798 912 955 993	1024 1051 1075 1076	1111	1133	محل (ترین) ایک (دری) سر (دری) سر (مریز)	104 104	11	1997	1611	1193	1201	1202	1005	1205	1206	1206	1207	7061	1208	1208	1208	1208	1208	1209	1207
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dal 7	N(HE) /CH3	2,400E 07 1,738E 07 1,413E 07 1,211F 07	1.00090 1.00090 1.00090 1.00090 1.00090 1.00090 1.50090 1.50090	7.0298 06 6.6198 06 6.2648 06 5.9518 06 5.6738 06	5.423E 05 5.197E 06 6.939E 06 6.798E 06 6.798E 06	4,2006 06 4,2156 05 3,7596 06 3,5266 06 3,3136 06	3.1158 06 2.5338 06 2.7636 06 2.6055 06 2.6055 06 2.4578 06	2.3)86 v6 2.1896 v6 2.0672 06 1.5538 v6 1.6568 v6	1.7465 06 1.6515 06 1.6515 06 1.6755 06 1.4795 06 1.4005 06	1.3268 v6 1.2578 v6 1.1916 36 1.1295 36 1.0716 66
Mo	N (0) / 6 M 3	7.600E 10 3.470E 10 2.043E 10 1.354E 10	9.5996 09 7.1186 09 5.4556 09 4.2008 09 3.4406 09	2.0066 09 2.3206 09 1.9406 09 1.6306 09 1.2306 09	1.193E 09 1.027E 09 5.077E 09 7.706E 03 6.712E 06	5.1336 03 3.9598 08 3.0728 08 2.3976 06 2.3976 06	1.473E 08 1.442E 08 9.162E 08 7.246E 07 5.744E 07	4.5505 07 3.6265 07 2.6575 07 2.3335 07 2.3335 07	1.471E 07 1.170E 07 9.444E 06 7.583E 06 7.583E 06	4.917E 96 3.955E 96 3.192E 06 2.579E 06 2.966E 06
	N(02) /CH3	7.5005 10 2.2566 10 9.6298 09 4.8978 09	2.753E 09 1.655E 09 1.0966E 09 6.872E 05 6.872E 05	3.232E 00 2.291E 00 1.650E 00 1.206E 00 0.500E 05	6.6495 07 4.9905 07 3.7045 07 2.0025 07 2.2065 07 2.2065 07	1.3000 07 7.8500 05 4.7670 05 2.9156 05 1.7946 05	1. 10%8 06 6. 2%28 05 6. 30%8 05 2. 69%8 05 1. 69%8 05	1.0660 05 . 6.7505 05 . 6.7505 05 . 7.2275 05 . 2.7285 05 . 1.7505 05 .	1.1136 04 7.1406 03 4.5926 03 2.9616 03 2.9146 03 1.9146 03	1.2408 03 0.0578 02 5.2476 02 3.4266 02 3.4266 02 2.2426 02
۰	N(N2) /CH3	4.000E 11 1.330E 11 6.171E 10 3.352E 10	1.9966 10 1.2656 10 6.3666 09 5.7606 09 6.0706 09	2.941E 09 2.166E 09 1.619E 09 1.226E 09 9.3846 00	7.2445 08 5.6348 08 4.4100 08 3.4659 08 2.7429 08	1,7326 06 1,10726 06 7,1498 07 4,4488 07 4,6428 07 2,0328 07	1.9898 07 1.3126 07 0.4708 06 5.7618 06 5.7618 06 3.8378 06	2.562E 06 1.715E 06 1.152E 06 7.750E 95 5.229E 95	3.5366 05 2.3916 05 1.6586 05 1.1096 05 7.566E 44	5.175E 04 3.547E 04 2.437E 04 1.677E 04 1.157E 04
1159 ⁰ K	NEAN MOL NT	27.01 26.37 25.82 25.31	24,02 24,02 23,91 23,50 23,50 23,50	22.67 22.29 21.99 21.56	20,89 20,57 20,27 19,59 19,70	15, 19 16, 72 17, 92 17, 92 17, 52	17,23 17,23 16,75 16,32 16,33	16.09 155.09 155.60 15.47	15.01 16.77 16.20 16.21 13.90	13,56 13,56 12,82 12,42 12,41 11,98
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1729 ⁰ K	PRESSURE DYRE/CM2	2.722E-02 1.346E-02 8.0276-03 5.258E-03	3.6546-03 2.6476-03 1.9606-03 1.9106-03 1.5106-03 1.5106-03	9. 624E04 7. 587E04 6. 176E04 5. 075E04 5. 075E04	3.5096-04 2.9456-04 2.4666-04 2.1096-04 2.1096-04	1.31%6+05 9.0106-05 7.3766+05 7.5026+05 4.2006-05	3.3056-05 2.5558-05 2.0011-05 1.5706-05 1.2306-05	9.5000-005 7.50000-00 6.2358-60 5.0056-66 5.0036-06	3.2655465 2.6576-05 2.1715-06 1.7835-06 1.4725-06	1.2228-06 1.0298-06 8.5728-07 7.2968-07 6.1658-07
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1159 ⁰ K	HEAN HOL WT	200 20 20 20 20 20 20 20 20 20 20 20 20	2022 2025 2025 2025 2025 2027 2027 2027	888888 88888 89888 808888 80888 80888 80888 80888 80888 80888 80888 80888 80888 8088	21 - 22 21 - 22 21 - 22 20 - 22 20 - 71 20 - 71	20.22 19.77 19.35 18.96 18.60	128.27 117.69 117.69 117.69 117.69 117.69 126.37 16.39 16.39	16.22 16.05 15.68 15.68 15.71 15.54 15.18 15.18
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1729 ⁰ K	PRESSURE DYNE/CM2	2.7536-02 1.3706-02 8.4336-03 5.7536-03	4.1806-03 3.1696-03 2.4756-03 2.9766-03 1.9766-03 1.5046-03	1.320E+03 1.093E+03 9.212E+04 7.739E+04 6.029E+04	5.6736-05 4.6736-05 4.8796-05 4.8146-05 3.6546-05 3.146-05 3.140	2.4316-04 1.6806-04 1.4676-04 1.4576-04 1.1546-04 9.1506-05	7.2958-05 5.8568-05 4.7268-05 3.8328-05 3.1228-05 3.1228-05 2.5548+05 2.5978+05 1.7288-05 1.7288-05	1.1566-05 9.8676-06 8.2376-06 6.8976-06 5.7926-06 4.8796-06 4.8796-06 4.1226-06
T(14) =	DENS I TY GH/CH3	2.4906-11 8.1376-12 3.8176-12 2.1306-12	1.3256~12 8.8826~13 6.2806~13 4.6206~13 3.5036~13	2.7206-13 2.1526-13 1.7296-13 1.4076-13 1.1576-13	9.606E+14 8.036E-14 6.735E-14 5.735E+14	3.595E-14 2.687E-14 2.035E-14 1.5635E-14 1.5635E-14 1.207E-14	9.417E-15 7.411E-15 5.874E-15 4.686E-15 3.769E-15 3.033E-15 2.458E-15 2.458E-15 2.0016-15 1.635E-15	1.3416-15 9.1146-15 9.1146-15 7.5476-16 6.2676-16 5.2186-16 4.3556-16 4.3556-16 3.6676-16
- 14	TEMP K	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	949 1056 1153 1233	1357 14607 14607 15487 15487	1545 1569 1589 1606	1645 1665 1677 1698 1698	1702 1707 1717 1717 1717 1717 1722 1723 1723	1725 1725 1725 1725 1727 1728 1728 1728
HOUR	ALT Kn	120 140 150	1 40 1 40 2 1 40 1 40 1 40 1 40 1 40 1 40 1 40 1 40	00000 2490 5490 5490 5575	260 270 290 300	ま 意きます 0000000	4444 88890 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88900 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 88000 800000 800000 800000 8000000	6820 6820 7420 7420 7420 7420 7420 7420 7420 74

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	(A) CH3	00000000000000000000000000000000000000	776 07 716 07 716 07 716 07 716 07	1000 1000 1000 1000 1000 1000 1000 100	2255 2555 2555 2555 2555 2555 255 255 2	55555 200020 200020 200020 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 200000 2000000	1 (11) (CX3 59E C3	076 03 576 03 605 03 615 03 846 03	696 03 256 03 816 03 396 03 976 03	576 03 276 03 776 03 396 03 396 03 016 u3
	2 \	2484 2484 2484	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	에 10 년 년 년 1999년 1997년 1999년 1997년 1997년 1997년 1997년 1997년 1997년 1997년 199 1997년 1997년 199 1997년 1997년 1997	でかりのひょう。	20022 2002 2002 2002 2000 2000 2002 2002 2002 2000 2000 2000 2002 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 20000 20000 20000 20000 200000	4 1 0	ୁ ଦୁ ଦୁ ଅ ଅ ଜୁ ଦୁ ଦୁ ଅ ଜୁ ଦୁ ଅ ଅ ଜୁ ଦୁ		29244 29944 2994 2994 2994 2994 2994 29
odel 7	и (не) / снз	2.4006 07 1.6036 07 1.3446 07 1.1398 07	9.997E 06 0.991E 06 0.227E 06 7.625E 06 7.132E 06	6.7255 06 6.2775 06 6.0718 06 5.60718 06 5.60718 06 5.60718 00 5.60718 00 5.60710 00 5.60710 00	00 000 000 5,555 00 5,555 00 5,550 00 5,550 00 5,500 00 5,50000000000	A.371E 00 A.2150 00 7.650E 00 7.650E 00 7.651E 00 7.651E 00 8.652E 00 8.652E 00 8.652E 00	33.10E 315.4E 315.4E 2500E 2705E 0.5 2705E 0.5	2.5765 06 2.4555 06 2.34555 06 2.3405 06 2.3415 06 2.1295 06 2.1295 06	2.031C 66 1.939E 66 1.939E 96 1.852E 96 1.7652 96 1.6902 96	1.615E 06 1.545E 06 1.477E 06 1.413E 06 1.413E 06 1.352E 06
W	N(0) /CK3	7.600C 10 3.315E 10 1.921E 10 1.270E 10	9.0766 9.0766 9.0505 9.	2,5996 09 8,5996 09 2,1756 09 2,1756 09 1,6006 69 1,6366 69	L.4322 09 L.2592 09 L.LLL 69 9.5442 05 0.7956 05		2.4055 00 1.9655 00 1.6115 00 1.3255 00 1.32555 00	8.9736 67 7.4366 67 6.1256 67 5.0716 07 6.2046 07	3.4906 67 2.9016 07 2.4146 07 2.4146 07 2.4146 07 2.4146 07 1.6795 07	1.401E 07 1.171E 07 9.800E 06 8.209E 06 6.884E 06
	N(02) /CH3	7.500E 10 2.174E 10 9.390E 09 4.994E 09	2,8695 09 1,0116 09 1,0275 09 0,3665 05 5,9765 05 5,9765 05	4,3328 00 2,2576 00 2,5576 00 2,5576 00 1,5576 00 1,5556 00 1,5556 00 1,5556 00 1,5556 00	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2.6575 07 1.6575 07 5.25655 07 7.9575 07 7.9575 05 7.9575 05 7.9555 05	2,5260 06 2,53560 06 1,5338 06 1,6760 06 7,2996 05	4. 565E 05 . 3. 565E 05 . 3. 316E 05 2. 316E 05 1. 590E 05 1. 590E 05 1. 694E 05	7.5535 04 5.2136 04 5.6128 04 2.5128 04 2.5028 04 2.5028 04 1.7458 24	1.217E 04 6.507E 03 5.960E 03 4.183E 03 2.942E 03
	N (N2) / CA3	4.0000 11 1.2040 11 5.9680 10 9.3030 10	2.031E 10 1.3421E 10 9.303E 09 6.653E 09 4.555E 09	3,7500.05 2,6050.00 2,6050.00 2,2550.00 2,7750.00 1,4120.09	L.122C 09 9.1422C 09 9.1422C 09 1.4422C 00 6.04432 00 6.04432 00 6.04432 00	8,3428 8,3428 8,2598 8,5798 8,5798 8,5798 8,5798 8,5798 8,5798 8,579 8,5	5.3696 07 3.7160 07 2.6766 07 1.8958 07 1.3558 07	9.615E 06 6.079E 06 6.079E 06 6.9349 06 6.9349 06 2.5569 05 2.5569 05	1.665C 06 1.3255 06 9.6032 05 7.036C 05 5.1226 05	3.7365 U5 2.7395 05 1.9595 05 1.4665 05 1.4665 05
1159 ⁰ K	TU UT	27.01 26.39 25.09 25.69	000000 00000 00000 00000 00000 00000 0000	225 225 225 225 225 25 25 25 25 25 25 25	2000 2000 2000 2000 2000 2000 2000 200	20°17 20°17	12°20 17°20 17°20 17°20 17°20 17°20	05 °91 95 °91 96 °91 97 °91 97 °91	115.69 155.60 155.62 155.62 155.62	15°08 14°83 14°567 14°45 14°21
T (4) =	NX XN Scale	11.2 10.1 23.6 29.1	むこうてい ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	868933 86893 88893 88893	00000 0000 0000 0000 0000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0355 0355 0355 0355 0355 0355 0355 0355	00°00 00°00 100°00 1001	100 1100 1100 1100 1100 100 100 100 100	110.2 120.5 123.0 125.6 128.4
1729 ⁰ K	PRESSURG DYNE/CM2	2.7226-02 1.3766-02 8.5226-03 5.8356-03 5.8356-03	4.25567-00 3.215567-00 2.55557-00 2.55557-00 2.55557-00 1.55557-00 1.55557-00 1.55557-00 1.55557-00 1.55557-00 1.55557-00 1.55557-00 1.5555757-00 1.555575770 1.555575770 1.5555757770 1.5555757777777777777777777777777777777	1, 3265-03 1, 3265-03 2, 1535-03 7, 1535-030	5,00,1-00, 4,0099-00 4,1579-00 8,1779-00 8,1649-00	2.3606-06 1.(150-05 1.4160-05 1.4160-05 1.1059-05 0.7215-05	6, 5272-65 5, 5372-65 5, 5572-65 5, 5572-65 2, 5592-65 2, 5592-65 2, 5286-09	2, \$835-05 1, 9515-05 1, 6556-05 1, 6556-05 1, 8526-05 1, 956-05	9.0765-05 7.5595-05 6.3145-06 5.2908-06 5.2908-06 4.4455-06	3.7405-01 3.1705-05 2.6905-05 2.2905-05 2.2905-05
T(14) =	dens I TY GA/CA3	2.4906+11 0.0756+12 3.0116-12 2.1466+12	1.3456+12 9.0546+12 6.4306+13 4.7246+13 4.7246+13 3.5636+13	2.1919-113 2.1919-14-13 1.750-145 1.750-145 1.420-145 1.420-145	97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-308-5 97-5 97-5 97-5 97-5 97-5 97-5 97-5 97	3,55900-14 2,6550-14 1,5580-14 1,5280-14 1,5200-14 1,1701-14	5.0.36+15 7.1955-15 5.6256-15 5.6256-15 6.418-15 9.5756-15	2.874415 2.872415 1.8544415 1.5536415 1.5536415 1.2556415	1.0336-15 6.4016-16 7.0036-16 5.7990-16 6.8156-16	4,0085-16 3,3442-16 2,7972-16 2,3445-16 2,3445-16
16	1ENY K	900 1000 1000 1000 1000 1000 1000 1000	050 050 1170 1270 1271	1385 1582 1582 1582 1582	1521 1522 1522 1522	1609 1622 1652 1652 1652	1667 1673 1677 1661 1661	1692 1693 1693 1693	1695 1695 1695 1695 1695	1697 1697 1697 1697 1697
-JUUR-	KII KII	120 120 150	160 170 200 200 200	220 220 220 220 220 220 220 220 220 220	260 260 260 260 260	8 8 8 8 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4444 84380 86380 86380	8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	620 640 700 700	008 527 527 527 527 527

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		00000	12000	000000 000000	000000 00000	000000 896669	03	000000 00000	$\begin{array}{c} \sigma & \sigma & \sigma & \sigma \\ \sigma & \sigma & \sigma & \sigma & \sigma \\ \sigma & \sigma &$	0 0 0 0 0 0 0 0 0 0 0
	N (V) CH3	4 - 5006 1 - 0648 3 - 9926 1 - 0616	9.6000 3.6000 3.6000 2.2000 2.5000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	2.7568 2.7676 2.775 2.9275 2.9275 2.9575 2.9575	N (H) /CM3 4.170E	4.1136 4.01576 4.0156 3.9526 3.9526 3.9016	3,8518 3,0028 3,7558 3,7066 3,006	3.618E 3.574E 3.5374E 3.532E 3.448E
del 7	к(не) /сиз	2. 5006 07 1. 6026 07 1. 2476 07 1. 1466 07	1.0116 07 9.1356 06 7.70000 06 7.2976 06	6.0036 06 6.5278 06 6.2158 06 5.9308 06 5.9308 06 5.9308 06	5.464E 06 5.2572 06 5.666E 06 4.059E 06 4.123E 06	4.4218 06 4.1528 06 3.5078 06 3.6078 05 3.6058 06 3.4198 06	3.2008 06 3.1126 06 2.5476 06 2.5476 06 2.7936 06 2.6496 06	2,5146 06 2,3376 06 2,2676 06 2,1546 06 2,1546 06 2,1546 06	1.958E 06 1.053E 06 1.7650 06 1.679E 06 1.599E 06	1.523E v6 1.451E v6 1.383E 06 1.319E 06 1.319E 06
Mod	N(0) VCH3	7.600E 10 3.312E 10 1.927E 10 1.202E 10	9.2366 (9 7.0026 (9 5.5036 (9 5.5036 (9 4.4308 09 3.6506 09	3.0476 00 2.5746 09 2.1565 09 1.0676 09 1.6326 09 1.6326 09	1.4195 09 1.2395 09 1.0075 09 9.5565 05 0.4206 00	6.602E 00 5.210E 00 4.136E 00 2.300E 00 2.642E 00	2.121E 00 1.709E 00 1.3305 00 1.3305 00 1.117E 08 9.062E 07	7.364E 07 5.994E 07 5.994E 07 4.057E 07 3.990E 07 3.263E 07	2.672E 07 2.190E 07 1.794E 07 1.478E 07 1.478E 07 1.478E 07	1.003E 07 8.272E 06 6.832E 06 5.650E 06 5.650E 06
	N (02) /CI13	7.5006 10 2.1726 10 9.4266 69 4.9456 09	- 2,0016 00 1,03016 00 1,03056 00 1,23156 00 5,3226 00 5,0016 00	5.293E 00 5.293E 00 2.502E 00 2.702E 00 2.402E 00 4.802E 00 4.850E 00	1.0098 00 0.0005 07 0.2705 07 0.2908 07 0.2998 07 3.0006 07 3.0006 07	2.3988 07 1.5988 07 9.5766 07 6.5266 06 6.5256 06 6.5256 06	2.554E 06 1.6643 06 1.058E 06 7.145E 05 7.145E 05 4.709E 05	3.1146 05 . 2.0668 05 1.3748 05 9.1718 04 6.1368 04	4.1176 34 2.7696 04 1.8676 04 1.2525 04 8.5545 04	5.810E 03 3.956E 03 2.699E 03 1.846E 03 1.265E 03
	N (122) Z G N 3	4.0000 11 1.2020 11 5.0000 11 3.0000 11 3.0000 10 3.0000 10	2.0578 10 1.3508 10 5.4058 00 5.4058 00 6.7308 00 6.7308 00	3.7166 09 2.1566 09 2.1656 09 2.1656 09 2.2656 09 2.2656 09	1.0615 09 8.4595 00 6.7765 00 5.7765 00 5.4528 00 5.4528 00	 x. 9626 00 1.9396 00 1.2996 00 1.8996 00 0.7956 07 0.7956 07 0.7956 07 	4.0746 07 2.7596 07 1.9296 07 1.3356 07 9.2626 06	6.447E 36 4.500E 05 3.149E 36 2.216E 96 2.216E 96 1.554E 06	1.095E 05 7.7428 05 5.452E 05 3.891E 05 2.7578 05	1.972E 05 1.400E 05 1.000E 05 7.226E 04 5.191E 04
1159 ^о к	REAN HOL NT	27.01 26.39 25.69 25.46	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	003 003 005 003 005 003 005 005 005 005	225 225 205 205 205 205 205 205 205 205	19.52 19.63 19.60 19.60 10.20	17.50 17.60 17.33 17.06 17.06	16.69 16.23 16.25 15.65	20 20 20 20 20 20 20 20 20 20 20 20 20 2	14.65 14.61 14.15 13.07 13.07 13.07
T (4) =	SCALE HT KN	11.2 16.1 23.8 23.7	をある。 いて、 いて、 いて、 いて、 いて、 いて、 いて、 いて、 いて、 いて、	\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	***** ***** *****	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ა ი ა ი ა ა ი ა ი ა ი ა ი ა ი ა ი ა ი ა	93, 7 92, 5 92, 5 92, 5 100, 9 100, 9	102.0 105.0 106.6 106.7 111.0	113,4 116,0 118,0 121,6 1251,6
1.729 ^О К	PRESSURE DYNE/CN2	2.7226-02 1.3766-02 0.5206-03 5.8186-03	4,2105-03 3,1676-03 2,4407-03 2,4407-03 1,4407-03 1,5407-03 1,5407-03 1,5407-03	1.8566+69 1.8886+69 0.155886+69 0.1558465 1.18566+65 5.18566+65 5.0566+65	6,00.50+00 4,20.50+00 8,6706+00 8,8406+00 8,8406+00 8,8406+00 8,2696+00	2.0276-05 1.5308-05 1.1768-05 9.6038-05 7.0766-05	5,5426-05 6,2776-05 3,4776-05 2,7776-05 2,7776-05 2,2296-05	1.7566-05 1.4546-65 1.4264-05 9.6416-05 7.6936-05	6.4866+06 5.34866+06 5.3486+06 4.4266+06 3.6766+06 3.6766+06	2.5646-05 2.1536-05 1.6166-06 1.5386-06 1.5386-06
T(14) =	DENS I TY GN/CN3	2.4906-11 8.0666-12 3.8286-12 2.1656-12 2.1656-12	1.3626-12 9.1006-13 6.5046-13 6.7726-13 4.7726-13 3.5995-13	2, 7720-13 2, 7720-13 2, 7720-13 1, 7200-13 1, 7200-13 1, 2300-13 1, 1310-13 1, 1310-13	9.2746-14 7.6658-14 6.3798-14 5.3428-14 5.3428-14 4.4978-14	3.2356-14 2.3565-14 1.7568-14 1.3208-14 1.3208-14	7.6846~15 5.9492~15 4.6406~15 3.6446~15 3.6446~15 2.6836~15	2.2096-15 1.8296-15 1.4576-15 1.4576-15 1.1826-15 9.5566-15	7.7566-16 6.3158-16 6.3158-16 5.1588-16 4.2259-16 3.4718-16	2.8596~16 2.3616~16 1.9556~16 1.6236~16 1.3516~16
16	TCHP K	355 541 624 622	2121 201 1201 1211	1300 1300 1300 1300 1300	1410 1450 14552 14552 1470	151 1512 1522 1522 1522	1553 15553 15553 15553 15553	1572 1572 1573 1575	1577 1579 1579 1579 1583	1051 1561 1562 1562
HOUR=	АL Т КИ	120 150 150	1 70 1 70 1 50 2 00 2 00	210 220 240 250 250	260 250 250 250 250 250	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	000000 0000 00000 00000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	660 660 700 700	725 745 765 765 805

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M-4-12

100H	(= 22	T(14) =	1318 ⁰ K	T(4) =	885 %			•		
ALT KH	TENP	DENS I TY GM/CM3	PRESSURE DYNE/CM2	SCALE HT KW	REAN	N(N2)	N(02)	(0) N	Model 4	3
120	355	2-490F-11	C-300-6			/CH3	/CH3	ENJ/	/CK3	CM3
130	483	8.642E-12	1.3176-02	11.2	27.01	4.000E 11	7.500E 10	7.600E 1D	2.400F 07	4-5005 D
150	486	4.0245-12 2.1036-13	7-5886-03	20.1	25.76	4.271E 10	2.3096 10	3.6156 10	1.7896 07	I.1165 0
		71	** / 40E-03	23.4	25.19	3.337E 10	4. E03E 09	1.409E 10	1 1.266F 07	0 396 0 10 0
120	721	1.314E-12	3.197E-03	.26.1	24.64	1 9445 10				
180			2.2166-03	28.4	24.09	1.200E 10	2.023C UV	9.973E 09	1,127E 07	8-1675 0
190	829	3-8416-13	L-579E-03	30.5	23.55	7.7C4E 09	9 - 26 - 10 - 00 - 00 - 00 - 00 - 00 - 00 - 0	60 3//C*/ 5 * 200 00	I.023E 07	\$.214E 0]
200	849	2.7095-13	4 - 1 + 4 + - 0 3 3 - 50 1 5 - 0 4	C	23.02	5.D03E 09	5.702E 08		90 3014°6	2.203E 0
				1.00	22.49	3.422E 09	3.6932 03	3.4486 00		1.2036 01
210	365	L.9:9E-13	6.381E-04	35.6	00 10					1 - SGUE 08
077	62.0	1.425E-13	4.8485-04	37.1	21.49	2+3380 U9	2.397E 00	2.7510 09	7.6603.06	4.312E 06
240	10 5 8 20 8	1.037E-13	3.7236-04	38.6	21,30	1.127E 09	1.075E 06	2.2145 09	7.2162 05	2.5425 04
250	506	41-3566+1 4103460-1	2.386E-04	39.9	20.54	7.9165 03	6-994F 07	1. 1932 09	5.215E C&	1.341E 04
	2		40-2952.2	4 1.2	20.11	5.5935 08	4.7096 07		6-952E G6	9.9350 05
260	116	4.620E-14	1.7765-04	5 4 4					00 2017 00	50 3021-5
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005	926	1.7306-14	7.2755-05	47.0	18.30		1.0136.07	5.4776 98	5.0026 06	Rutent Of
UC E) ; ;		0.4500 05	\$.533E 08	4.7655 06	5.2528 04
046	160	1.102E-14 7.1646-15	4.796E-05	49.0	17.75	5.445E 07	3.305E <u>0</u> 6	3.11.00 00		
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	446	1.3296-16	7.969E-07	72.4	13.09	3.332F 04	1.419E 03	6-412E 06	1.631E 06	1.576E 04
600	446	7.0076-17	6.090E-07	76.5	12.47	1.875E 04	3.6765 02	4.569E C6	1.4985 06	1.543E 04
		7-3760.	** 120E-07	61.4	11.73	1.043E 04	1.8875 03	3.22/E 06	1.377E 06	1.511E 04
620	945	5.248E-17	3-7276-07	c 70				¢	1.266E 06	1.479E 04
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680	n v ₽ ₹	2.965E-17	2.437E-07	102.1	45.0	0.1001.0J	4.594E 01	1.202E 06	1.072F 05	40 004444 1 7 100 07
103	540		2.020E-07	111.3	6 8 9 6 8 9	1.0365 03	Z+588E 01	3.653E 05	9.877E 05	
(A A			1.101E-07	121.5	8.13	5.8638.00	1.396E 01	6+24GE 05	9.101E 05	1-3625 04
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Properties of the Upper Atmosphere as Functions of Height and Local Time for an Upper Loval

of Sigh Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂ O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the excepteric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 225 \times 10^{-22}$ W/m² c/s of the solar radiation at a wavelength of 10.7 cm.

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Mod 1 8

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	14) =	NS LTY /CM3	06- 11 46- 12 46-12	201-12 20	56-13 56-13 56-13 56-13 76-13 76-13	46-14 46-14 86-14 76-14 14	284 - 1.4 24 - 1.4 25 - 1.4 25 - 1.4 25 - 1.4 25 - 1.5 25		178-15 68-16 68-16 528-16 528-16	136-16 726-16 746-16 146-16 146-16	71-367 71-377 71-377 71-377 71-377 71-377 71-377 71-367
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	N (N2) ZCR3	4.000E 11 1.2955 11 6.1066 10 3.4116 10	2.00556 10 1.3676 10 9.2016 09 6.50010 09	3.9966 69 2.0916 69 2.0016 69 2.0016 69 2.0016 69 2.0016 69	0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.0555 0.05555 0.05555 0.05555 0.05555 0.05555 0.05555 0.05555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.055555 0.0555555 0.055555555	1.7035 00 1.0355 00 6.3555 07 3.5015 07 2.4126 07	1.4978.07 9.3348.07 9.6408.06 8.6468.06 8.5468.06 8.3088.06	1.4568 06 9.2358 05 5.8678 05 3.7388 05 3.7388 05 3.3008 05	1.5296 05 9.6216 04 6.2240 04 4.0626 04 7.6426 04	1.715E 04
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1845 ⁰ K	PRESSURE DYNE/CH2	2.7226-02 1.2770-02 0.3666-03 5.6206-03	3,9126-03 2,9926-03 2,8656-03 2,8656-03 1,6736-03 1,6736-03 1,6736-03 1,6736-03	1.025608 0.155508 0.152905 0.1529-05 0.1518-05 2.1518-05	50-1001 50-1001 50-1001 50-1001 50-10-00 50 50-10-00 50 50-00 50 50 50 50 50 50 50 50 50 50 50 50 5	59-27877 59-27877 59-27677 59-27677 59-27677 79 59-27677 79 79 79 79 79 79 70 79 70 70 70 70 70 70 70 70 70 70 70 70 70	2.5667-65 1.95887-65 1.46387-05 1.1166465 6.5548-06	6.5549-00 5.1109-00 3.50289-00 3.1216-00 3.1216-00 2.4668-00	1.9516-06 1.5576-06 1.2516-06 1.2516-06 1.0136-06 8.2636-07	5.639E-07 5.639E-07 70-376F-3
T(14) - 1	OENS LTY GRZCK3	2.490E-11 0.151E-12 3.9038-12 2.221E-12	1, 3946-12 9, 3142-13 6, 6957-13 4, 6657-13 4, 6657-13 5, 4560-12	2. 6020-12 1. 9100-15 1. 9100-15 1. 2100-12 2. 9170-12	7, 6499-15 5, 19-5-5 5, 19-5-1 5, 19-5-1 5, 19-5-5 5, 19-5-5, 19-5-5 5, 19-5-5, 19-5,	2,2017-14 1,5000-14 1,1200-14 1,1200-14 1,1200-15 1,1200-15 5,6956-15	4, 2739-15 3, 1665-15 2, 3558-15 1, 7665-15 1, 3356-15	1.0145-15 7.7376-16 5.9528-16 4.5622-16 3.9226-16 3.9226-16	2.7420-16 2.1370-16 1.6720-16 1.5320-16 1.3350-16 1.0360-16	0.213E-17 6.546E-17 5.226E-17
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	N (N2) / CN3	4.0006 11 1.3136 11 6.1206 10 3.3506 10	2.0246 10 1.2996 10 5.7322 09 6.0006 09 4.3538 09	3, 3006, 69 2, 3700, 69 3, 800, 60 3, 500, 60 3, 500, 60 3, 500, 60 3, 500, 60 3, 500, 60	0,3745 0 6,5968 0 6,2255 0 4,3255 0 8,2255 0 8,2345 0 8,2445 0 8,2455 0 8,2555 0 8,25550 0 8,	2., 2010 1., 1010 2., 360 2., 360 2., 230 2., 200 2.,	2,0095 07 1,0965 07 1,2076 07 6,7566 05 5,9748 05	4.0076 06 2.0032 05 1.9277 96 1.3282 06 9.1742 05	6.3518 05 4.4078 05 3.0648 05 2.1358 05 2.1356 05 2.1356 05	1.043E 05 7.316E 06 5.140E 06 3.6199 06 2.553E 04
1229 ⁰ K	FEAN RCL UT	27.01 26.38 25.85 25.85	245 255 255 255 255 255 255 255 255 255	22, 55 22, 55 22, 55 21, 55 21, 55 21, 55 21, 55	2010 2010 2010 2010 2010 2010 2010 2010		22.25 27.25		15.37 15.16 14.96 14.96 14.96	14,17 19,00 13,00 13,54 12,68 12,68
T (4) =	SCALE NT KH	11.2 17.5 22.5 26.6	8888 977 977 977 977 977 977 977 977 977	くらまかい いっしい いっていてい みかいたい		かりりつい	4, 5, 4, 5, 5 2, 6, 5, 7, 5 2, 6, 5, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	201903 201903 201903 201903 201903 201903 201903 201903 201903	5.101 5.101 101 101 101 101	1110 1120 1220 1220 1220 1220 1220
1845 °K	PRESSURE DYNG/CR2	2.722E.02 1.35881.02 8.20051102 5.4556109	3.0446 0.0246 2.12776 2.12776 1.1277777777777777777777777777777777777	1.651 6.850 7.615 7.615 7.615 7.625 7.655 7.655 7.655 7.6557 7.6557 7.6557 7.65577 7.65577 7.65577 7.65577 7.65577 7.655777 7.655777 7.655777 7.65577777 7.6		1.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.00000 1.00000000	4, 2568-23 3, 3404-05 2, 6365-65 2, 6565-65 2, 6668-65	1, 335F-05 5, 7485-05 7, 0005-05 7, 0005-05 7, 0005-05 7, 0005-05 7, 0005-05 7, 0005-05 7, 0055-05 7, 0055-050-050-0500-0500-050000000000000	4,6516-002 3,5126-005 3,1369-00 2,5918-00 2,1506-005 2,1506-005	1.7925-06 1.5005-06 1.2626-06 1.2626-06 1.0675-05 9.0696-07
T (14) =	DENSITY GN/CH3	2.4906-11 6.2620-12 3.9146-12 2.1891412	1.3405+12 C.6726+13 C.1355+13 C.1355+13 C.1355+13 S. 2306+19	2、4416+)2 1。66016+25 1、6796+15 1、1736+15 2、4542+17 5、4542+13	1. (622°-14 62294 - 14 62294 - 15 5. 2492 - 15 61242 - 15 7. 3496 - 15 316421 - 15	2,6691-15 1,6941-15 1,6941-15 1,6417-15 1,6491-15 1,6367-15	6,05615 4,666-15 8,6246-15 2,6292-15 2,2235-15 2,2235-15	L. 7552-15 J. 2052-15 L. 3052-15 L. 304-15 C. 8062-16 T. 1862-16	5.7445-16 4.6426-16 3.7626-16 3.0595-16 3.0595-16 2.4536-16	2.0395-16 1.6714-16 1.3745-16 1.1334-16 1.1334-16
3	1612 R	8888 888 7683 7683	800000 8000 8000 8000 8000 8000 8000 8	2000 2000 2000 2000 2000 2000 2000 200		1999年1999年1999年1999年1999年1999年1999年199	5355 5355 5357 5357 5357 5357 5357 5357	1495 1495 1495 1495 1495 1495 1495 1495	1497 1497 1498 1498	1448 1448 1448 1448
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•	N161 /Ch3	4.5005 1.0795 3.9925 1.8135	លសលស) ស្ភេះប្រស សំភ្លាសទំណ សំភ្លាសទំណ សំភ្លាសទំណ ទំនាស់ សំណា	000000 2000000	44098 44098 64499 6448 6448 6448 6448 6448 64 64 84 84 84 84 84 84 84 84 84 84 84 84 84	84638 99999 99999 99999 99999 99999 99999 9999	v n(n) √Cu⊃ 2.0058	2.4000 2.40000 2.40000 2.40000 2.40000000000	2.6018 2.6018 2.6198 2.5986 2.9198 2.9198 2.9188	2.5298 2.5016 2.5016 2.4726 2.4456 2.4176
el 8	и(не) 7013	2.4005 07 1.7065 07 1.3745 07 1.3745 07	1.0206 07 9.1365 06 0.3116 66 7.6665 06 7.1365 06	6.7700 00 C.2000 00 C.2000 00 C.2000 00 C.2000 00 S.7000 00 S.7000 00	5.2768 06 5.0709 06 4.0978 05 4.7303 05 4.7303 06	4,3958 06 4,04558 06 5,02458 06 5,02458 06 3,62368 06 3,62368 06 3,52368 06	2,2555 06 5,0935 06 2,9965 06 2,9965 06 2,7965 06 2,7955 06 2,6618 06	2.5346 65 2.6138 66 2.8008 66 2.1936 66 2.1936 06 2.1936 06 2.1936 06	1.9945 06 1.9025 06 1.8155 06 1.7335 06 1.7335 06	1.581E 06 1.511E 06 1.44/E 06 1.380E 05 1.320E 05 1.320E 05
Mođ	N (0) / C (3	7.6005 10 3.9865 10 1.9746 16 1.29746 10	9.1805 09 6.8486 09 5.8486 09 5.8486 09 4.8486 09 4.2286 09 4.2286 09 8.42408 09	2,0638 00 2,4128 00 2,4158 00 2,4555 00 1,7665 00 1,5338 00	1.3388 09 1.1746 09 1.0345 09 9.1506 00 9.1506 00 8.1216 00	6.4408 68 5.1616 08 4.1576 08 3.5665 08 3.5665 08 2.7358 08	2.22555 C3 1.01555 C3 1.45055 C3 1.45055 C5 1.22055 C6 1.00355 C6	0.2498 07 6.7978 67 5.4098 67 4.6348 67 4.6348 07 3.6336 07	3.1745 07 2.6325 07 2.1055 07 1.8165 07 1.5115 07	1.258E 07 1.049E 07 2.754E 06 7.314E 06 6.117E 06
	N102) ZGH3	7.500E 10 2.200E 10 9.501E 09 4.070E 09	2.7936 09 1.7266 09 1.1276 09 7.6256 09 7.6256 00 5.4126 66	2, 9128 00 2, 6928 00 2,1595 00 2,1595 00 1, 6655 00 1, 2655 00	9, 0195 07 7, 0795 07 7, 0455 07 4, 7855 07 4, 7855 07 5, 0455 07 5, 0455 07	2. 6356 67 1. 5776 67 1. 0316 67 6. 7946 05 6. 7946 05	2.0946 06 2.0946 06 1.3446 06 9.0556 05 6.1106 05	4.145E 05 2.016E 05 1.010E 05 1.010E 05 1.310E 05 0.966E 04	6, 1528 04 4, 2308 04 2, 9168 04 2, 0148 04 1, 3948 04	9.671E 03 6.724E 03 4.664E 03 3.270E 03 2.287E 03 2.287E 03
	N(NZ) ZCN3	4.000E 11 1.300E 11 6.0595 10 3.3565 10	1.9976 10 1.2926 10 6.2095 09 6.2436 09 4.5446 09	3,4125 09 2,6015 09 2,6015 09 1,5795 09 1,5795 09 1,25195 09	9.9965 08 0.6445 68 6.5129 08 5.3129 08 5.3315 08	2.9246 03 1.9976 00 1.3756 00 9.5346 07 6.6466 07	<pre><.640E 07 3.2676 07 2.304E 07 1.620E 07 1.620E 07 1.156E 07</pre>	0.2226 06 5.6606 06 4.1876 06 2.9902 06 2.1516 06	1.546E 06 1.114E 06 8.042E 05 5.817E 05 4.215E 05	3.060E 05 2.226E 05 1.622E 05 1.184E 05 8.658E 05
1229 ⁰ K	NEAN KOL NT	27.01 26.39 25.56 25.38	225 25 25 25 25 25 25 25 25 25 25 25 25	22,00 22,17 22,55 22,55 21,05 21,05	21,55 21,25 21,00 20,75 20,75	20,00 19,54 19,13 10,13	10°06 17°77 17°59 17°59 17°01	16.60 16.60 16.41 16.23 16.23	15,53 15,70 15,52 15,22 15,15	14.95 14.74 14.52 14.29 14.29
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1845 ⁰ K	PRESSURE DYNE/CR2	2.7226-02 1.8636-02 8.8019-02 5.5546-63	4.00004-03 2.5936-03 2.3116-03 2.3116-03 1.1776-03 1.17720-03	 ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	5, 6505+65 4, 3355+65 3, 3355+65 3, 3355+65 3, 3355+65 3, 2355+65 3, 1355+65 3, 1355+65	2.1356-04 1.6649-04 1.2708-04 1.2708-04 1.2278-04 7.9908-05	6.2005+05 5.0205+05 4.0355+05 8.2555+05 8.25555+05 8.25555+05 8.25555+05	2.153E-05 1.760E-05 1.764E-05 1.764E-05 1.164E-05 9.624E-05	R.1428-06 6.7690-06 5.6360-06 4.7238-06 4.7238-06 3.9640-06	3.3386-06 2.8206-06 2.3916-06 2.3916-06 2.3916-06 2.0346-06 1.7366-06
T(14) = 1	DENS I TY GM/CM3	2.4906-11 8.2166-12 3.0736-12 2.1546-12	1.3378-12 8.7828-15 6.7258-15 6.7258-15 4.7258-15 3.2358-123 3.2358-123 3.2358-123	2.5610-138 2.65610-138 2.6010-138 1.6010-138 1.26010-138 1.26010-138	6.7376-14 7.2776-14 6.1008-14 5.1566-14 4.3608-14	3,2052-14 2.3876-14 1.6016-14 1.3755-14 1.3755-14	8.2522-15 6.4732-15 5.1145-15 5.1145-15 3.2502-15 3.2502-15	2.6126-15 2.1096-15 1.7109-15 1.3916-15 1.1376-15	9.3156-16 7.6576-16 6.3136-16 5.2186-16 4.3256-16	3.5946-16 2.9530-16 2.4998-16 2.4998-16 2.0918-16 1.7548-16
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1845 ⁰ K	FRESSULL DYREZCHZ	2.7226-02 1.3726-02 8.4646-03 5.7846-03	4.2116-03 3.2006-03 2.5076-03 2.6076-03 2.0088-03 2.0088-03 1.6376-03	1.3520-03 1.1300-03 9.5250-03 9.5250-03 8.00120-03 8.00120-03	10000000000000000000000000000000000000	2.6159+65 2.037+-65 1.6626-65 1.2162-65 1.2162-65	8.133 (-05 6.558(-05 5.558(-05 5.558(-05 5.5518(-05 3.5518(-05 3.555(-05)	2,9326-05 2,4316-05 2,6005-05 2,6065-05 1,6665-05 1,3915-05	1, 1,636-05 9, 7598-06 8, 2106-66 6, 9266-66 6, 9266-66 5, 8586-66	4. 970E-05 4. 227E-05 3. 606E-06 3. 085E-06 3. 085E-06 2. 647E-06	
T(11) =	DERS LTY GRZCH3	2.492F-11 6.120E-12 3.6166-12 2.130E-12	1.324E-12 8.872E-13 6.272E-13 4.616E-13 3.504E-13	2.7255-13 2.1616-13 2.1616-13 1.7416-13 1.7416-13 1.4716-13 1.4736-13	9,7748-14 6,2086-14 6,2088-14 6,2058-14 5,0588-14 5,0588-14	3, 7476-14 2, 6248-14 2, 1566-14 1, 6656-16 1, 2985-16	1.0192-14 8.0745-15 6.24155-15 5.1451-15 5.1451-15	3.3051-15 2.7552-15 2.2565-15 1.8566-15 1.5306-15	1.2665-15 1.0515-15 8.7495-16 7.3026-16 6.1116-16	5.126E-16 6.310E-16 3.632E-16 3.057E-16 2.599E-16	
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Mo	N(D) /CH3	7.6025 10	3.2076 10	1.697E 10		6.7306 Co	5.2076 09	4.277E 09	2.5378 09	i i i i i i i i i i i i i i i i i i i	2.9765 09	C 1000 C3		1.667E 0:				1.0525 60	9.2422 00		7.4606 00	6.070E CO	4.960E 00	20 1012°8		2.7525 00	2.3195 CB	1, 5125 CB	1.3456 00		L.1255 06	7.9112 03	6.654E 07	5.6006 07	4.710E 07	3.9795 01	3.360E 07	2.041E 07	2.4045 07	2,03/6,07	1.727E 07	1.466E 07	1.2456 07	1.059E 07
	N(02) /CH3	7.5005 10	2.1616 10	9.344E 09 4.865E 09		1.6265 09	L.226E 07	8.609E 00	6.227E 05		00 13110 00 A	00 00000 000 00 000 000	20 3320 V	1.6205 68	1 9066 10	20000000000000000000000000000000000000	R.776F 67	6.626E 07	5.2026 CY		N. 5500 04	Z.370E 07	1, 6000 GF	7, 5025 06		5. Less 06	3.5725 06	2.4020 00 1 7205 00	1.210E CO		0.4008 05 6 6051 05	6.210E 05	2.9768 05	2.1098 05	1.4965 05	1.000E 05	7.606E 04	5.437E 04	2.8958 04	2.7965 04	2.011E 04	1.4495 04	1.0465 04	7.567E 03
	N(N2) /CN3	4°00ÚE 11	1.2756 11	9.279E 10	2.0326.13	1 27/20 10 1 27/20 10	9.306E 09	6.514E 09	5.0005 00	5 000 c		2.3976 00	1.914E 09	1.5430 09	00 3777 1	L.0265 09	6.436F 00	6.974E 00	5.707E 0.5		4.0250 00 4.0250 00			1.0255 CB		7.4076 07	20 BAOM 01	2,040F 07	2.076E 07		1.1100 07	C. 233E 06	6.076E 06	4 . 494E 06	3.3305 06	2.473E 05	1.840E 06	1.371E D6	1.0245 06	.7.657E 05	5.737E 05	4.304E 05	3.2305 05	Z.4386 UD
1229 ⁰ K	REAN HOL RT	27.01	20° 20	25.46	25.67	24.20	24636	24,03	23.71	07 20	57.24 57.24	22,02	22,53	22.26	21.09	21.13	21.67	21.22	20°28	 	20°00	10.02	10,200	20°0 20°0 21	(15,52	14.00	17.72	17.40	ر ب ب	1 7.65	16.05	16.65	63°91	16.32	16.10	16.00	15.84	15.60	15.52	15.35	15.18	15.00	19005
T (4) =	SCALE НТ КЛ	11.2	16.3	29.9	. 35.1	30.9	46.62	2103	51,6	125		60.9	63.5	5757	66.2	70.3	72.3	74.3	76.1		19:57 19:57		55.7	5 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	č	0,55		101.1	103.3	x 101	4"X01	109.4	111.4	113.5	115.2	117.1	119.0	120.9	122.8	124.9	126.9	129.1	121.5	100.1
1845 ⁰ K	PRESSURE DYNEZCAZ	2.722E-02	1.302E-02 8 6005-02	5.9556-03	4.377E-63	3.3550-03	2.643	Z.J.251 03	L + Fist-43	1-4465-03	1.2125-03	1.0248-03	6.7215-64	7,4736-04	6°537E~04	5.5728-04	6.843E-04	4.2265-04	20-3050-2		<pre>< c c c c c c c c c c c c c c c c c c c</pre>		1.4036-04	1.1236-04			5.971F-05	4.659E 05	4.0200-05	2.2105.05	2.7505-05	2.2079-05	1.5061~05	1.5976-05	1.3405-05	1.128E-05	9.523E-00	0.0010-05	6.8415-00	5.8205-06	4.9665-06	4.247E-00	3.1236-06	0. TUTE .
T (1.4) =	DENS I TY GAZCA3	2.4906-11	8.0220-12 3.7816-12	2.1206-12	1.3376-12	9.0395~13	6. 44.05-13	6. 1005-13	57-105-10 × 6	2.0576-13	2.2778-13	L + 1972 (+13	1.50?E-15	J.• 2455-13	1.0446-13	6.7865-14	7.4465-14	6.347E-14	5,4392-14	, (,, (,, , , , , , , , , , , , , , , ,	\$•0592-14 3•0592-14	2.342E-14	1.0136-14	1.4176-14	1 1146-14	8.552715 8.5625-15	51-2050-12	5.707e-15	4.6204-15	3.7505-15	3.0746-15	2.5246-15	2.0016-15	1.7226-15	1.4305-15	L.1716-15	9.950E-16		01-3000-1	5.893E-16	4.973E-16	91-3002-10 3 crvc-11	3.027F-16	>
14	TC11P K	555	212	153	103	2011	1201	1021	7-1-1-1	1424	1479	1526	1566	1071	1601	1657	1603	5597	1716	177.1	1765	1761	1796	1004	1141	1017	1022	1026	1329	1637	1024	1036	1531	6201	1843		10	92.0 7	C'-01	1843	1844	2291	10.05	
ноца	ALT KR	120	140	150	1.60	0/1		1 2 C		210	220	230	240	052	200	210	2 00	052	200	00.5	0.20	360	300	100	620	640	460	4 00	005	520	540	001	0	6 00	620			2002	001	720	032		000	, , ,

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del 8	N(NE) /CM3	2.4008 07 1.6628 07 1.3238 07 1.1205 07	9.63 6.63 6.63 7.15 7.57 7.57 7.65 7.65 7.65 7.65 7.65 7.6	6,00 6,00 6,00 6,00 7,000 7,000	5 5 5 5 5 5 5 5 5 5 5 5 5 5	4, 25237 6, 21235 6, 21235 7, 2235 9, 6535 9, 6545 8, 5265 8, 5265 9, 52 8, 5265 9, 52 8, 5265 9, 52 8, 52 9, 52 9	8.8000 00 8.1000 00 8.0000 00 2.0000 00 2.10000 00 2.1010 00	2.637E 06 2.5205 06 2.4095 66 2.306E 06 2.306E 06	2.1105 06 2.0215 06 1.9955 06 1.5545 06 1.7776 06	1.704E 06 1.637E 06 1.567E 06 1.567E 06 1.503E 06 1.443E 06
OM	к (0) / С И Э	7.6006 10 3.2566 10 1.8876 10 1.2515 10	60 60 60 60 60 60 60 60 60 60 60 60 60 6	3.0326 C9 2.5546 09 2.23258 09 1.9326 69 1.9326 69	2.000 2.000 2.000 2.000 2.000 2.000 0.00 0.00 0.00	7.446E 00 6.032E 60 4.916E 60 4.916E 60 3.511E 00	2.1705 00 2.2555 00 1.0755 00 1.5555 00 1.25555 00	1.0826 09 9.0456 07 7.5716 07 6.3466 07 6.3266 07	4.4755 07 3.7655 07 3.7655 07 3.1715 07 2.6745 07 2.6746 07 2.6746 07	1.500E 07 1.614F 07 1.367C 07 1.158E 07 9.630E 06
	N(02) /CH3	7.500E 10 2.147E 10 9.353E 09 4.937E 09	2,5225 09 1,6665 09 1,2555 09 2,0155 09 6,0155 00	4.7096 60 5.5446 60 2.7166 00 2.0958 06 2.0958 06 2.6388 06	1.2003 00 1.0248 00 0.1703 07 6.5548 07 5.2016 07	3,4675 07 2,3645 07 2,3645 07 1,9455 07 1,0455 07 1,0455 07	4.8536 04 3.5366 04 2.3026 06 1.5956 06 1.1096 06	7.7326 05 5.7936 05 3.7936 05 2.6638 05 2.6638 05 2.6638 05	1,3205 05 9,4005 04 6,4705 04 4,7515 04 4,7515 04 3,3375 04	2.41.95 04 1.7328 04 1.2428 04 8.9288 04 6.1298 03
	N (N2) /CK3	4.000E 11 1.266E 11 5.920E 10 3.307E 10	2.0556 10 1.3702 19 9.5565 09 6.9765 09 5.2116 09	3,9706 09 3,0006 09 3,0006 09 1,9506 09 1,9506 09 1,9506 09	1.2506 09 1.0276 09 8.4126 11 6.9284 69 5.7256 09	3,9526 06 2,7595 06 1,9435 08 1,3775 08 1,3775 08	7.6505 07 5.6655 07 5.6565 07 2.6595 07 2.6595 07 2.9275 07	1.405E 07 1.0027E 07 7.524E 06 5.530E 06 6.071E 06	3,0036 00 2,2206 00 1,6446 00 1,6446 00 1,2206 06 9,0748 05	6.759E 05 5.043E 05 3.770E 05 2.623E 05 2.117E 05
1229 ⁰ қ	EEAN RGC UT	27.01 26.40 25.91 25.41	225°00 225°00 225°02 225°22 225°22 225°22	2022 2022 2022 2022 2022 2022 2022 202	2010 2010 2010 2010 2010 2010 2010 2010	20 20 20 20 20 20 20 20 20 20 20 20 20 2	16, 51 25, 50 27, 62 17, 66 17, 61	17.19 16.96 16.79 16.43 16.43	16,26 16,26 15,53 15,77 15,61	15.66 15.27 15.10 16.91 14.72
고 (년) 고	NT RH	11°2 11°2 25°5 30°1	0000 000 000 000 00	90100 47559 47599 47599 476999 4769	6,00 10,00 11,00 14,21 14,21 14,1414,14 14,1414,14 14,14 14,14 14,1414,14 14,14 14,1414,14 14,14 14,1414,14 14,14 1	0 4 3 4 4 3 3 4 5 5 2 4 5 5 5 2 6 5 5 5 2 6 5 5 5 2 6 5 5 2 6 5 5 2 6 5 2 6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	55 55 55 55 55 55 55 55 55 55 55 55 55	1007 1007 1006 1106 1106 1106 1106 1106	112.0 112.0 112.0 112.0 112.0	128.0 1285.0 1285.0 1380.4 1380.4 1380.4
1845 ⁰ K	PRESSURE DYBE/CM2	2.7226-02 1.3690-02 0.7000-03 6.0300-03	4. 4388-03 3. 5758-463 2. 6728-463 2. 1478-463 2. 1478-463 1. 7554-463	L. 400 100 L. 2010-03 L. 2010-03 L. 2020-03 L. 4020-03 L. 4020-03	00-100 100	2,71,860. 2,1660. 1,7035-0. 1,7035-0. 1,7035-0. 1,7035-0. 1,2055-0.	0,051,1400 0,050,1400 5,612840 5,612840 4,6222465 3,1502465 3,1502465	3,1301-05 2,5561-05 2,1476-05 1,7886-05 1,4886-05 1,4936-05	1.2518-05 1.0518-05 6.6518-05 6.6518-05 7.4668-06 7.4668-06 6.3428-06	5.3886+06 4.5900-06 3.5716+06 3.3516+06 3.3516+06
T(14) =	DENS 11Y GRZCH3	2.4936-11 7.9626-12 3.7776-12 2.1456-12	1.356F~12 9.2136F~12 6.22136F12 6.22136F12 6.221372 3.2326F13 3.2326F13	2,0135+19 2,91319 2,91319 1,526-19 1,526-19 1,526-19 1,2525-19	1.0510+33 0.0500+12 7.5520+12 6.3340+12 5.41224-13 5.41224-13	4, 0008-41 3, 0108-71 4, 12955-1 2, 29555-1 2, 14975 1, 3776 1, 3776 1	1,000 1,000 1,551 1,551 1,552	3.5876-15 2.9266-15 2.3976-15 1.9726-15 1.6266-15	1. 3698-15 9. 3518-16 7. 8108-16 7. 8108-16 5.535-18	5.5076-16 4.6388-16 3.9168-16 3.3126-16 3.3126-16 2.8006-16
- 16	ار 10	355 555 710 862	987 1690 11290 1291	またです。 000のでの くらいにい それまれ。	16 17 10 10 10 10 10 10 10 10 10 10 10 10 10	1710 1721 1762 1762 1762	1705 1705 1705 1705 1705 1705 1705 1705	1000 1007 1009 1031 1031	1013 1615 1615 1615 1617	. 7131 3131 3131 3131 3131
HOUR:	AL Y KA	120 150 150	150 150 150 150 150 150 150 150 150 150	00000 8880 88888	000 000 000 000 000 000 000 000 000 00	୦୦୦୦୦ ମ <i>ିକ୍ତୁ</i> ଅନ୍ୟାନ୍ତ୍ର ଅନ୍ୟାନ୍ତ୍ର	024 024 025 0005	88888888888888888888888888888888888888	620 620 700 700	720 740 750 750 750 750

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	N (A) / CK3	4.5006 1.J566 4.0006 1.0936	1.0196 5.9616 3.6966 2.3926 1.5986	1.0956 7.6506 5.4306 8.4306 2.6616	2.0856 1.5436 1.145436 8.6096 6.4836	3.7236 2.1696 1.2786 7.6046 4.5606	N (H) /CM3 2.664E	2.847E 2.810G 2.775E 2.741E 2.741E 2.708E	2.676E 2.654E 2.613E 2.583E 2.553E 2.553E	2.524E 2.496E 2.468E 2.448E 2.4416 2.414E
	_	1000	99939	4 3 9 3 3 0 0 0 0 0	999999 00000	999 900 9900000000000000000000000000000	00000 000000	00000 00000	00000 00000	00000 99999
de] 8	NUIE ZCH3	2.4006 1.6625 1.9266 1.1286	9.9480 0.9960 0.2516 7.6666 7.1676	6.7030 6.7362 6.1365 5.0555 5.255 5.255 5.255	8. 202 8. 202 9.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3, 3268 3, 1536 3, 1536 3, 1536 3, 1566 2, 166	2.586 2.566 2.266 2.236 2.236 2.236 2.136 2.2366 2.2366 2.2366 2.2666 2.26666 2.266666 2.26666666666	2.0385 1.9468 1.8586 1.7756 1.7756	1.622E 1.551E 1.483E 1.419E 1.358E
MO		0000	000000 000000	66666	000000	00000 00000	8 8 8 9 8 8 8 8 8 9 8 8 8 8 9 8	07 07 07 07	07 07 07 07	07 07 06 06
	N(0) /CII3	7.600 3.2598 1.6926 1.2656	9 • • • • • • • • • • • • • • • • • • •	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	1.4700 1.2900 1.1450 0.9250 0.9250 0.9250 0.9250		2.450 2.062 1.640 1.345 1.345 1.107 8 1.107 8	9.1268 7.5368 6.2308 5.15908 4.2598	3.5526 2.9546 2.4596 2.4596 2.0496 1.7106	1.429E 1.195E 1.0016 8.386E 7.037E
		0000	00000 00000	60000 00000	000000000000000000000000000000000000000	00000 00000	99999 99999	89000 89000	*****	48 888
	N (02) / C H3	7.500E 2.145E 9.301E 4.977E	2.005 2.005	& & & & & & & & & & & & & & & & & & &	1. 500 5. 50 5. 50 50 50 50 50 50 50 50 50 50 50 50 50	2.920 1.920 1.200 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.2000 2.200000000	3.65 2.65 1.65 1.65 1.7 5 5 6 6 7 5 5 6 6 7 5 5 6	5.1438 3.5116 3.5116 2.4036 1.6506 1.13506	7.8358 5.4208 3.7588 2.6128 1.8208	1.2716 0.8916 6.2356 4.3816 4.3816
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	N CN2	4.000E 1.265E 5.9356 3.3356	2.0006 1.3006 9.7046 7.0236 5.2176	3.955 3.955 3.955 3.9755 1.5577 1.5577 1.5577 1.5577 1.5577 1.5577 1.5577 1.55777 1.55777 1.55777 1.55777 1.557777 1.5577777777 1.557777777777	L.1916 9.6026 7.7006 6.3326 5.1766	3.4907 2.3076 1.6306 1.1356 7.9166	5.53%E 3.0%E 2.75%E 1.30%E 1.30%E	9.9146 7.0956 5.0996 3.6616 2.6396	1.907E 1.301E 1.002E 7.288E 5.310E	3.077E 2.636E 2.078E 1.526E 1.122E
1229 ⁰ K	MEAN MOL NT	27.01 26.40 25.41 25.41	25°00 25°00 25°55 23°55 23°55 23°55	28, 33 28, 61 28, 70 22, 33 22, 33 22, 53 22, 53 23, 53 23, 53 24, 53 25, 54 25, 55 25, 55 25	21.60 21.52 21.35 20.55 20.72	20.22 19.76 10.93 10.93	10.22 17.92 17.66 17.30 17.30	16.92 16.72 16.53 16.34 16.17	15.99 15.65 15.65 15.47	15,10 14,91 14,20 14,48 14,25
T (4) ==	SCALE HT KN	400 50 50 50 50 50 50 50 50 50 50 50 50 5	\$ \$	900340 900340 90048	800000 2020 2020 2000 2000	1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	60.5 90.5 92.6 97.0 97.0	99.0 101.0 102.9 106.5	100°.4 110°.3 112°.2 112°.2 112°.2 112°.2	110.4 120.7 123.1 125.7 128.5
845 ^O K	PRESSURE DYNE/CN2	2.7220-02 1.3000×02 0.7076-03 6.0108-03	2, 2005 3, 2005 2, 0455 2, 0455 2, 0555 2, 05555 2, 0555 2, 05555 2, 055555 2, 055555 2, 0555555 2, 0555555555555555555555555555555555555	1.3028-00 1.1446-00 9.5545-00 9.5545-09 8.00500-02 6.6600-00 8.0000-00	5,79980-00 4,5060-00 4,200-00 4,200-00 4,200-00 3,000-00 40 3,1000-00 8,000-00 40 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50	2.6266-04 1.6646-04 1.6646-05 1.1306-05 0.5/26-05	7.0001-05 5.00015-05 6.5410-05 8.6410-05 3.6400-05 2.9000-05 2.9000-05	2.4306-05 1.900-05 1.700-05 1.300-05 1.3000-05	9.2656-06 7.7176-06 6.4476-06 5.4030-06 4.5426-06	3.8316-00 3.2416-00 2.7506-06 2.3426-06 2.3426-06 2.9016-06
T(14) = 1	DENS I TY GN/CM3	2.6906-11 7.9566+12 3.7005-12 2.1046+12	1.3740-12 9.3440-12 6.6704-12 6.6704-12 6.9366-12 4.9356-12 8.7516-12 8.7516-12	2.9126-13 2.3016-13 1.0446-13 1.44956-13 1.2246-13	1.0126-13 0.4276-14 7.05376-14 5.9561-14 5.9561-14 5.0502-14	3.601E-14 2.7205-14 2.0516-14 1.5605-14 1.5605-14	9, 2968-15 7, 2758-15 5, 7638-15 4, 5618-15 3, 6658-15	2.92954-15 2.3665-15 1.9193-15 1.5645-15 1.2798-15	1.0506-15 0.6448-16 7.1396-16 5.9138-16 5.9138-16	4.00%6-16 3.4136-16 2.8566-16 2.3956-16 2.3956-16 2.0136-16
16	TCAP K	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	567 1665 1148 1210 1212	2721 10251 10251 1021 1021	1575 1575 1575 1576	1601 1621 1636 1659	1666 1672 1672 1662 1662	1692 1693 1693 1693 1099	1071 0071 0071 0071 0071	1702 1702 1703 1703 1703
≁ипан	AL) KII	120 130 150	1200 1200 2001 2001 2002	22000 2220 2222 2222 2222 2222 2222 22	260 270 250 250 260	00000000000000000000000000000000000000	0000000 2000 2000 2000	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	620 660 700	720 740 780 800

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	(V)8	4.500 1.0556 4.01566	1-9008 1-0195 1-0195		1.536E	1,1145	3000 %	5.5036 2.4536		1007°1	9,6256	6.090E	10/0	2.7546	1945 1947 1947 1947	6.7496 6.7496	2.6776	-	(H) N	/CM3	3.0365		1,00%E	2.9128	2.8725		2 • 196E	2.7236.0	2.6885 0	2.653E C	2.619F 0	2.5865 0	2.553E 0	2.521E 0 2.489E 0
	ael 8 Kns) Zena	2. 5000 07 1. 56555 07 1. 33555 07	1.1605 07 1.0095 07 9.1665 05	6.4205 06 7.5435 06	1.304E Uŭ	6.6116 D6	6.304E 0C	5.704E 06	5. 5505 02	5.352E 06	5.1000 06	4.5015 06 4.613F 06		4.5050 06 4 2207 05	ALCOUNTRY AND	3.7436 00	3.5265 06	3.3205 06	3.1436 00	2-970E 06	2.657E 06		2.3075 05	2.2566 06	2.130E 06		1 8376 00	1.731E 06	1.644E 06	1.561E 06	1.483E 06	1.4096 06	1.3406 06	1.2/4E U6 1.212E 06
:	N(0) N(0) V(N3	7.600E 10 3.266E 10 1.909E 10	1.244E 10 9.294E 09 7.094E 09	5.6050 09 4.540E 05	2.1285 00	2.6545 05	2,2665 CS	L.665E 69	1.4646 09	1.2766 69	1.1190 09 0.0100 09	4.624E 03 8.642E 03		6.7335 00 5.2705 00	4.160E 00	3.2916 00	2.612E CO	2.0755 QQ	1.655E Gu	1.323E CS	C.506E 07	K 0376 07	5,504E 67	4.437E 07	3.563E 07 2.697E 67	2.2656 07	1.9025 07	1.5446 07	1.2556 07	L.021E 07	8.3206 06	6.788E 06	2.544E 06	4.23%E U0 3.712E 06
	n(02) /CH3	7.5005 10 2.1516 10 9.4338 09 5.0116 69	2. 970E 05 1. 690E 09	1.2026 09 0.7316 00 6.2010 00	64 9764 96 6*6966 96	3, 3095 0.0	Z.4685 00 J.859F 02	X.413E 00	1.001E 00	0.521E 07	6.4368 67 3.0005 83	3.0000 07		2:3515 07 1.4625 07	9.254E 06	5, 0175 06	3.677E 06	2.3255 06	1.4036 06	9,4928 05 A.YAPE AG	3.930E 05	2.5616 05	1.6405 05	1.072E C5	6.573E 04 4.573E 04	2.9995 04	1.972E 04	1.300E 04	C, 539E 03 E 200E 03	2.05VE US	3.7786 03	2.515E 03	1.122E 03	7.523E 02
	N(112) /CH3	4.0008 11 1.7698 11 5.9758 10 3.3646 10	2.097E 10 1.356E 10	9.72)E 09 6.994E 09 5.1566 69	3.6738 09	00 B120 8	1.773E 09	1.3916 09	1•030E 00	P. YSCF EU	5,574E 08	00 3525.4	2,0125,00	1.916F 00	1.2055 05	0.4300 07 5 / 5 07	20	3.7705 07	2.547E 07	20 3671°1	7.9608 06	5.4358 06	3.716E 06	2.551E 06	1.210E 06	8.361E 05	5.791E 05	4.0201 05	2.191E US	***/01	1.3638 05	9.542E 04	4.707F 04	3.3166 04
1229 ⁰ K	иог ит ИСАЦ	821,00 821,00 821,00 822,000 822,000	25°05 25°66	24, 29 23, 92 23, 56	23, 21	22.87	22,20	21,53	21.57	21.20 20.00	20.67	20°40	19,06	19.37	16.92	15.51		17.50	17 27	16.96	16.73	16.51	16.31	16.11	15,72	15.52	15.32	15,10	14.66	• • •	14.38	13.80	13.48	13.14
T (4) =	עט וא אי גע	. 11. 24:55 29:22 29:22	500 100 100 100 100 100 100 100 100 100	80.6 83.6 84.5	46.7	9 . 5 5	5)	5 کردن	50.7	50°5 62°6	63.5	65.1	61,0	10.6	73.2	2.27	•	0.03	0.25 1.25	01.0	εγ. ι	\$°50	1°16	3 ° 7 ° 6	50° 3	1,52	100.0	102.0	1.06.5		1,901	115.0	110.4	122.1
1845 ^V K	PRESSURL DYHEZGA2	2.722E-02 1.3460-02 8.6600-02 5.9546-03	4.8265-03 8.22605-03 8.2605-03	1.591E-03	1:2651-63	Lutrageo terestro	7.2255.00	6.000E-000	5-0032-04	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	3.1206-04	2-4718-04	1.977E-01	1.4621-04	L.1222-00	6.66		5.1131-05 8.0000-05		2.4006-05	1.9496-05	1.571E- 05	1.255E+05	03671.3	6.6325-00	5.3995-06	4.412E-06	3.019E-00 2.981E-05	2.4661-06		2.0481-06 1.7095-06	1.433E-06	1.207E-06	1.022E-06
T(14) =	06/117 06/12/12	2.4906-11 7.9616-12 3.8146-12 3.8146-12 2.1836-12	1.3076-12 9.4206-13 6.7616-12	4. 938E-13 3. 738E-13	2.0800-13	L. 7005-13	1.6636-13	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9.555E-)/ 7.5765-1/	6.0555-14	5.4748-14	6.552E-14	3.2765-14	2.3756-14	Le (5/12-15) 1. 9606-16	9.702E-15		7. 6) 68-15 5. 6808-15	4.3060-15	3.4105-15	2.668E-15	2.0986-15	1.6090-15].3188-15	1.0512-15	8.4155-16	6.761E-16	0.4010-10 / /000	3.5766-16	2.909E-16		2.3/3E-16 1.942E-16	1.593E-16	1.3116-1.6	1.082E-16
0,	TEIS K	355 708 708 888	549 1950	1156	1255	3315	ರು ಶ ೧೯೯ ೧೯೯ ೯	root	1503	14.00	1416	1247	1442	000 0	15.66	1473		1479	1402	1484	6351	1457	1409	11.69	1493	1691 1761	16.1	14.92	14.92	0074	1493 1493	1493	1493	1495
1001	AL 1 KN	120 130 140	1 70 1 70	200	210	220	250	2	260 273	2 80	290 200		320	0.20	300	003	000	8 C D 6 C D	600	480	000	520	000	683	00	20 20		80	CO.	()	104 50	09	03	0

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60000 01100 500000 03 89990 000000 88668 00000 4.500E 1.060E 4.031E 1.900E N (A) / CM3 1.0126 5.8306 3.5426 2.2366 1.4526 9.6416 6.5416 6.5106 7.4506 8.0556 2.9556 2.9556 1.5156 1.0736 7.6365 5.4605 3.9195 2.0396 1.0736 5.6916 3.0416 1.6366 3.0358 3.0398 2.9948 2.9508 2.9508 2.866E 2.824E 2.784E 2.745E 2.745E N (H) /CM3 ш 2.669E 2.632E 2.595E 2.550E 2.525E 3.1335 د , 1000 00004 800000 99999 90000 N(HE) /CM3 2.400E 1.672E 1.345E 1.153E 200000 999999 7.139E 6.753E 6.438E 6.155E 5.898E 1.024E 9.303E 8.581E 8.601E 7.519E 5.663E 5.445E 5.243E 5.053E 4.875E 4.547E 4.250E 3.980E 3.731E 3.502E 3.2895 3.0915 2.9086 2.7366 2.5776 2.4276 2.2876 2.1576 2.0346 1.9196 1.8126 1.7116 1.6166 1.6276 1.4436 1.365E 1.365E 1.291E 1.156E 1.156E 1.094E ω Model 9993 60 60 60 606666 600600 1001 01 01 01 07 07 06 06 9.444E 7.210E 5.691E 4.599E 3.783E 7.600E 3.285E 1.929E 1.299E 3.1536 2.6556 2.6556 2.2546 1.9276 1.6556 1.6556 1.428E 1.237E 1.075E 9.359E 8.169E N(0) /CM3 6.256E 4.819E 3.728E 2.895E 2.255E 1.756E 1.376E 1.077E 8.464E 6.661E 5.2516 4.1466 3.2796 2.5966 2.0598 1.6368 1.3016 1.0366 8.2646 6.5006 5.278E 4.226E 3.3386E 2.720E 2.186E 01000 60000 800080 80000 80000 10000 00044 00000 00000 ***** 00000 00000 7.500E 2.161E 9.490E 5.035E NC 021 2.974E 1.881E 1.246E 8.538E 5.997E 4.293E 3.120E 2.294E 1.7026 1.273E 9.587E 7.257E 5.518E 4.212E 4.212E 1.9068 1.1396 6.8496 4.1436 2.5196 1.530E 9.382E 5.775E 3.567E 2.211E 1.3756 8.5736 5.3636 3.3636 3.3656 2.1178 2.1178 н. 336 1. 336 1. 4556 2. 1726 2. 1726 2. 1776 1.3926 8.9296 5.7406 3.7006 2.3906 1122 666666 000000 300220 001 001 002 002 00000 00000 NCM3 2.137E 1.397E 9.665E 6.900E 5.041E 4.000E 1.275E 6.018E 3.388E 3.748E 2.825E 2.153E 1.655E 1.281E 9.979E 7.8111 6.139E 4.842E 3.831E 44444 2.4175 1.5376 9.8406 6.3346 2.647E 1.724E 1.127E 7.391E 4.861E 3.206E 2.121E 1.406E 9.350E 6.232E 4.164E 2.789E 1.873E 1.260E 8.502E 5.748E 3.895E 2.646E 1.801E 1.229E o[≭] AN 27.01 26.40 25.45 25.02 24.62 24.22 23.46 23.46 3.09 2.72 2.36 72.36 1.67 21.34 21.01 20.70 20.39 20.10 19.55 19.55 19.56 18.58 18.17 17.80 1229 7.17 6.90 6.65 6.42 16.20 15.99 15.38 15.38 H H H 15.11 14.86 14.60 14.31 2.66 Ц SCALE HT KH 11.2 18.3 23.9 26.5 32.0 35.0 35.0 44.1 46.3 48.3 50.2 53.0 555.9 555.9 555.4 51.2 555.4 51.2 555.4 51.2 555.4 555 5 63.8 66.3 68.6 70.9 72.9 74.9 76.7 76.5 76.5 80.2 81.9 83.5 85.2 86.8 90.6 105.2 108.7 112.6 117.0 122.0 92.3 94.4 96.7 99.2 99.2 ы 2.7226-02 1.3836+02 8.5986-03 5.8686-03 4.227E-02 3.156E-03 2.417E-03 1.886E-03 1.494E-03 1.494E-03 PRESSURE DYNE/CM2 1.197E-03 9.692E-04 7.913E-04 6.508E-04 5.386E-04 4.484E-04 3.752E+04 3.154E+04 2.663E+04 2.257E+04 1.639E-04 1.205E-04 8.962E-05 6.728E-05 5.095E-05 3.873E-05 2.975E-05 2.297E-05 1.787E-05 1.787E-05 1.356E-05 1-096E-US 8-648E-U6 6-853E-U6 5-4558-06 5-4558-06 3.505E-06 2.829E-06 2.295E-06 1.871E-06 1.534E-06 1.264E-06 1.049E-06 8.752E-07 7.352E-07 6.219E-07 °× 1845 2.493E-11 8.021E-12 3.642E-12 2.201E-12 1.396E-12 9.448E-13 6.692E-13 4.899E-13 3.677E-13 11 DENSITY GM/CM3 2.815E-13 2.189E-13 1.725E-13 1.374E-13 1.105E-13 8.9585-14 7.3145-14 6.0116-14 4.9686-14 4.1286-14 5.998E-15 4.522E-15 3.436E-15 2.629E-15 2.024E-15 2.891E-14 2.059E-14 1.487E-14 1.088E-14 8.051E-15 1.567E-15 1.219E-15 9.533E-16 7.483E-16 5.897E-16 4.665E-16 3.703E-16 2.949E-16 2.357E-16 2.357E-16 1.889E-16 1.520E-16 1.227E-16 9.936E-17 8.077E-17 6.592E-17 T(14) ЧЧ ЧЧ 355 547 697 816 , 912 989 11464 11464 1181 1213 1234 1254 1271 285 306 315 322 1333 1341 1347 1352 1355 1356 1358 1363 1361 1361 1363 1364 1364 1365 1365 365 365 365 365 365 1367 22 ALT 120 001100 210 220 240 250 260 280 280 280 280 290 640 660 700 700

M-8-13

HOUR=
Model 9

Properties of the Hoper Atmosphere as Eurotions

of Heicht and Local Time for a Level of

Very High Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Earth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of N₂, O₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 250 \times 10^{-22} \text{ W/m}^2$ c/s of the solar radiation at a wavelength of 10.7 cm.

	R(A) 7013	000 000 000 000 00 00 00 00 00 00 00 00					11.12 11.13	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2,300 2,500 2,500 2,8000 2,8000 2,8000 2,8000 2,8000 2,8000 2,8000 2,8000 2,8000 2,8	2.1011 03 2.1141 03 2.1446 03 2.1155 03 2.1155 03 2.0076 03
odej q	и(не) /сиз	2.400E 07 1.601E 07 1.337E 07	1. 1.00 1. 1.00 1.0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 00 00 00 00 00 00 00 00 00 00 00	8,8000 9,8000 9,8000 2,4000 2,4000 2,4000 2,0000 2,0000 0,000000	2.4447 06 2.1400 06 2.1400 06 2.1400 06 2.1400 06 2.9358 06	1.0276 66 1.7265 06 1.6306 06 1.6416 06 1.4572 06	1, 91, 1, 0, 1, 364E 00 1, 234E 00 1, 234E 06 1, 166E 06 1, 1066 06
Ŵ	N (0) / CH3	7.600E 10 3.22562 10 1.919E 10	••••••••••••••••••••••••••••••••••••••	22:000 00 23:000 00 23:000 00 23:000 00 23:000 00 25:000 00 25:0000000000000000000000000000000000	1,4538 00 1,2578 00 1,2578 00 1,6528 00 1,6528 00 1,2588 00000000000000000000000000000000000	4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.0056 CO 1.4156 CO 1.128 CO 6.7576 GY	5.4345 C7 4.2555 67 3.4615 07 2.6915 07 2.6916 07 2.1426 67	1.7035 07 1.3565 07 1.0515 07 8.6345 06 6.9035 06	8.1108 00 8.1108 00 3.5556 06 2.85556 06 2.85576 06 2.255976 06
	N102) /CH3	7.500E 10 2.1466E 10 9.500E 09 5.0776 09	3.0160 09 3.0160 09 1.9156 09 1.2756 09 6.7576 09	2:22200 2:22200 2:22200 2:22200 2:22200 2:220000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:22000 2:20000 2:20000 2:20000 2:20000 2:20000 2:20000 2:20000 2:20000 2:20000 2:20000 2:20000 2:200000000	0,0276 01 1,5245 01 1,2455 07 01 1,2455 07 01 01 01 01 01 01 01 01 01 01 01 01 01	L. \$916 07 L. 1516 07 7. 1536 06 6. 3568 06 6. 3568 05 8. 6558 05	1.6268 66 9.5958 66 6.1698 65 3.9298 65 3.9298 65 2.3768 65	1.4000 00 0.0000 00 0.0000 00 0.0000 00 0.0000 00 0.0000 00 0.0000 00	1.4568 04 9.2308 05 5.8718 05 5.8718 03 3.7448 03 2.3938 63 2.3938 63	1.5525 05 9.6595 05 6.2525 02 4.1625 02 2.6576 02 2.6576 02
	N (N2) /C/13	4.0006 11 1.2672 11 6.0156 10 3.4006 10	2.1316 10 2.1316 10 1.4166 10 9.6426 69 7.0436 69 7.0436 69 5.1536 69		00200 0.027 0.027 0.027 0.027 0.02 0.02	2.5075 00 1.0295 00 1.0295 05 6.6155 07 6.2155 07	2.7955 07 1.6212 67 1.1935 67 7.19455 67 7.19455 65 7.1455 65	3,4,100 06 2,2650 06 1,5060 06 1,5060 06 1,6090 06 6,6990 06	<pre><</pre>	6,2542 64 4,2445 04 2,6095 04 2,6095 04 1,9716 04 1,3476 04
1317 ⁰ K	NEAN NUC NT	27.01 26.40 25.91 25.91	25.05 25.05	200 200 200 200 200 200 200 200 200 200	2000 2000 2000 2000 2000 2000 2000 200	19 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 6 6 6 7 6 7 6 7 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	12.21 26.53 26.53 26.53 26.53	10°23 10°53 10°50 10°50 10°23	15,15 14,01 14,05 14,05 14,05	13.43 13.60 13.60 12.50 1.50 1.50 1.50
T (4) =	SCALE HT KN	11.2 10.5 26.1 20.0	ていいい。 、 い 、 、 、 、 、 、 、 、 、 、 、 、 、		10458 125054 125054	66.0 66.0 77.0 9.5 9.5 9.5	75+1 76,5 76,5 60,5 60,5 60,5 76,7 76,7 76,7 76,7 76,7 76,7 76,7 76	0 < 7 0 0 6 < 7 0 0 6 0 < 2 0 6 0 < 2 0	9999 9999 10999 1099 1099 1099 1099 109	105.2 166.5 112.5 122.5 122.5
1969 ° _K	PRESSURE DYLL/CR2	2.7226-02 1.3906-02 6.6516-03 5.9556-03	4.3036-03 3.2156-03 2.4566-03 2.9566-08 1.9266-08 1.5266-08	1.2009-03 0.5006-00 0.1100-00 0.0100-00 0.0100-00 0.0100-00 0.0100-00	204+3552°2 204+35555°5 200+35555°5 200+5555°5 200000000000000000000000000000000	1. 603 0-65 2. 2420-65 9. 2400-66 6. 55 10-66 5. 55 10-66 5. 50 10-66	20-125-40 20-12-40 20-12-40 20-12-40 20-40), (415-05 9, (000-05 9, (000-06 7, 1480-06 5, (400-06 5, (400-06 6, 19930-06	3.6590-66 2.9550-66 2.3972-06 2.3972-06 1.9556-66 1.6036-66	1,8218-06 1,0%68-06 9,1408-07 7,6758-07 6,4886-07
T(11) =	DERS LTY GRACERS	2.4906-11 7.9666-12 3.8396-12 2.2126-12	1.4106-12 9.5776-13 6.8018-13 4.5058-13 4.7508-13	2.8740-13 2.2376-13 1.7649-13 1.4049-13 1.4049-13 1.2316-13	9.1746~14 7.48955-14 6.16255-14 5.0555-14 5.0555-14 4.2555-14	2,9400-15 2,11600-15 2,11200-15 2,11200-15 2,11200-15 2,11200-15 2,1120-15 2	6,2600-15 6,6700-15 8,5510-15 2,7240-15 2,0952-15 2,0952-15	1. (265~15 1. 2665~15 9. 9985~16 7. 7845~16 6. 1408~16	4,0500-16 3,662945 3,0716-16 2,4616-16 1,9746-16	1,585-7,6 1,2636-1,6 1,0466-1,6 8,4556-1,7 6,5056-1,7
•	161:P K	355 555 706 825	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1107 1216 1226 1225 1225 1225 1225 1225 1225	20220 2022 2022 2022 2022 2022 2022 20	0000000 000000 0000000 0000000000 000000	20200 2020 2020 2020 2020 2020 2020 20	12010 12011 12021 12021 12021	1925 2925 2925 2925 2925 2925 2925 2925	2222 2222 2222 2222 222 222 222 222 22
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del 9	N(HE) /CM3	2.400E 07 1.671E 07 1.349E 07 1.1460E 07	1.0336 07 9.3966 06 8.6726 06 6.00726 06 7.5996 06	7.161E 06 6.016E 06 6.493E 06 6.202E 06 5.930E 06	5.696E 06 5.473E 05 5.264E 06 5.070E 06 4.805E 06	4.549E 06 4.245E 06 3.969E 06 3.714E 06 3.714E 06 3.460E 06	3.263E 06 3.063E 06 2.676E 06 2.702E 06 2.540E 06	2.3885 06 2.2476 06 2.1156 06 1.9916 05 1.9916 05	1.767E 06 1.666E 06 1.571E 06 1.432E 06 1.398E 06	1.3296 06 1.2476 06 1.1776 06 1.1136 06 1.1136 06 1.0526 06
Mor	N(0) /CH3	7.600E 10 3.284E 10 1.939E 10 1.311E 10	9.554E 09 7.297E 09 5.753E 09 4.640E 09 3.006E 09	3.162E 09 2.654E 09 2.2556E 09 1.912E 09 1.637E 09	1.4076 09 1.2166 09 1.0506 09 9.1156 08 7.9266 00	6.0275 03 6.6095 08 3.5406 03 2.7305 06 2.1115 03	1.636E 06 1.271E 05 9.090E 07 7.721E 07 7.721E 07	4.7245 07 3.7035 07 2.9085 07 2.2876 07 2.8015 67	1.421E 07 1.122E 07 8.878E 06 7.033E 06 5.578E 06	4.431E 06 3.524E 06 2.606E 06 2.238E 06 1.707E 06
	N(02) /CK3	7.500E 10 2.162E 10 9.540E 09 5.074E 09	2,9958 09 1,8866 09 1,2456 09 8,4816 08 5,9176 00	4.206E 08 3.0336 08 2.2136 06 1.6306 08 1.2106 08	9.0426 07 6.7936 07 5.1266 07 3.8846 07 2.9536 07	1.721E 07 1.012E 07 6.000E 06 3.57CC 05 2.144E 06	1.2906 06 7.7996 05 4.7336 05 2.6626 05 1.7616 05	1.080E 05 6.641E 04 4.097E 04 2.535E 04 1.573E 04	9.7076 03 6.1006 03 3.0226 03 2.3996 03 2.5996 03	9.5226 02 6.0246 02 3.8216 02 2.4306 02 1.5496 02
	N (N2) /CH3	4.000E 11 1.275E 11 6.050E 10 3.416E 10	2.1256 10 1.4056 10 9.6866 09 6.0806 09 6.976 09	3.6938 09 2.7666 09 2.0345 09 1.5996 09 1.2308 09	9.513E 08 7.397E 08 5.776E 00 6.526E 00 3.556E 00	2.2166 00 1.3916 00 8.7956 07 5.5906 07 3.5706 07	2.207E 07 1.472E 07 9.504E 05 6.156E 06 3.999E 06	2.605E 06 1.702E 06 1.115E 06 7.322E 05 4.821E 05	3.1826 05 2.1066 05 1.3976 05 9.2896 04 6.1926 04	4.137E 04 2.770E 06 1.859E 04 1.251E 04 0.435E 03
1317 ^o _K	NEAN Rol HT	27.01 26.40 25.90 25.44	25.01 24.00 24.20 23.00 23.41	23.03 22.65 22.29 21.93 21.57	21.23 20.50 20.53 20.27 20.27	19.41 18.91 18.95 18.95 17.67	17.34 17.05 16.79 16.53 16.30	16.00 15.87 15.45 15.43 15.19	14.94 14.67 14.67 14.07 13.72 13.72	13,35 12,95 12,52 12,63 11,63
T (4) =	SCALE НТ КН	11.2 16.3 23.7 20.2	0.25 0.25 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	505 505 505 505 505 505 505 505 505 505	662 665 67 71 71 71 71 71	73.3 75.1 76.8 78.5 70.5	88888 44 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	90.00 90.00 90.00 90.00 101.00	106.4 108.3 112.6 117.5 123.0
1969 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3846-02 8.6026-03 5.8530-03	4.1986+03 3.1166+03 2.5756+03 1.6536+03 1.6536+03 1.4516+03	1.1575-03 9.3265-04 7.5726-04 6.1998-04 6.1998-04	4.2338-04 3.2328-04 2.9548-04 2.4648-04 2.4648-04 2.0988-04	1.5136-04 1.1056-04 0.1636-04 6.0906-05 4.5636-05	3. 6766-05 2. 6536-05 2. 6536-05 2. 6536-05 2. 6546-05 1. 2246-05	9,5578-06 7,4998-06 5,9138-06 4,696-06 4,286-06 3,7286-06	2.962E-06 2.396E-06 1.938E-06 1.938E-06 1.976E-06 1.2897600	1,0616-06 8,7876-07 7,3316-07 6,1616-07 5,2161-07
T(14) =	DENS LTY GAZCH3	2.490E-11 8.025E-12 3.862E-12 2.219E-12	1.4086-12 9.5145-13 6.7165-13 4.8976-13 3.6596-13	2.7876-13 2.1576-13 1.6516-13 1.3406-13 1.0726-13	8. 654E-14 7. 035E-14 5. 756E+14 4. 739E-14 3. 922E-14	2.7276-14 1.9206-14 1.3046-14 1.3046-14 1.3046-14 7.4046-15	5.4906-15 4.1226-15 3.1156-15 2.3708-15 1.8156-15	1.3976-15 1.0016-15 0.4046-16 6.56046-16 5.1916-16	4.0445-16 3.1935-16 2.5295-16 2.0116-16 1.60416-16	1,2848-16 1,0328-16 8,3249-17 6,7428-17 5,4448-17
2	TERP K	955 848 894 801	097 970 1029 1077	1150 1177 1200 1220 1236	1249 1261 1275 1276 1276	1240 1360 1360 1910 1910 1910	1316 1320 1322 1322 1323	1322 1322 13225 13225 13225 13255	1325 1325 1326 1326 1326	1326 1326 1327 1327 1327 1327
HOUR-	AL.T KA	120 130 150	160 170 190 200 200	210 220 250 250 250	260 260 260 260 260	8888 888 900000 90000000000000000000000	2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	620 660 680 700	720 760 7100 600

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	n(a) 7083	4.5535 09 1.0555 09 4.0565 09 4.0565 09	10 10 10 10 10 10 10 10 10 10 10 10 10 1				1/10) /003 2.6155 02	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.5.5.5 2.5.5.5 2.5.5.5 2.5.5.5 2.5.
lel 9	II (HE) ZONS	2.6006 07 1.6016 07 1.3596 07 1.1606 07 1.1606 07	1.0416 07 9.4555 06 0.7216 06 0.1226 06 1.2266 06 7.6216 06	7. <u>15</u> 26 C3 6. C208 C6 6. C508 C6 6. 2508 C6 6. 2508 C6 6. 2508 C6 5. 9242 C6 5. 9242 C6	5.670E 06 5.456E 06 5.456E 06 5.45755 5.45755 5.45755 5.45755 5.457555 5.4575555555555	6.97.90 (6 6.27.63 (6 8.93.65 (5 8.693.6 (5 8.693.6 (5 8.65.6 (5 8.65.6 (5 8.65.6 (5)	3, 2325 05 5, 0385 05 2, 0456 05 2, 6175 05 2, 6116 05	2,3609 (5 2,3196 (5 2,6066 (5 1,9655 (6 1,0505 (6	I. 7436 00 I. 6628 00 I. 5405 05 I. 5405 05 I. 3778 00	1.7555 66 1.1565 66 1.1565 66 1.6555 06 1.6555 06
Mod	N(0) /CH3	7.600E 10 3.311E 10 -1.927E 10 1.3216 10	9.5955 69 7.3026 09 5.7355 69 4.6076 65 3.7656 69 3.7656 69	3.1.1.7E 69 2.6004E 69 2.1996 69 2.1996 69 1.6006 69 1.6006 69	1,3607 (3 1,176 (9 1,6176 (9 1,6176 (9 1,6125 (0 1,6525 (3 1,6505	5.6015 00 4.4258 01 2.5228 03 2.6103 03 2.6103 05 2.6103 05 2.6103 05	1.555P 03 1.2005 03 9.3016 07 7.3136 67 7.3136 67 7.3136 67 5.7056 67	4.4582 GY 3.46095 GY 2.7355 07 2.1475 67 2.1475 67 1.6605 07	L.329E 07 L.048E 07 6.278E 06 6.548E 06 6.548E 06 5.168E 05	4.)10F 05 3.2637 05 2.5631 05 2.9657 05 1.6461 06
	N(02) /C/13	7.5006 10 2.1756 10 9.5665 09 5.6565 09	2,9653 09 1,0568 09 1,21568 09 1,21568 09 1,21568 09 1,21568 09 2,2208 00 2,2208 000000000000000000000000000000000	A. 6765 00 2. 6115 69 2. 6115 69 2. 6915 69 2. 1995 69 1. 5915 690	0,4276 07 6,3906 07 4,7086 07 4,5976 07 5,5976 07 2,5778 07 2,7278 07 2,7278 07	L. SCRC C7 C. 2058 C6 S. 2018 C6 S. 2018 C6 3. 2018 C6 1. 0578 C6	1. 1610 CC 6. 9950 CS 6. 23050 CS 7. 23050 CS 2. 5676 CS 1. 5658 CS 1. 5658 CS	9.550E 05 5.652E 04 3.591E 04 2.215E 04 1.371E 04	0.564E 03 5.264E 03 3.2565E 03 3.2565 03 2.025E 03 2.295E 03	6.1326 02 5.1326 02 3.2416 02 2.0546 02 2.0546 02 1.3056 02 1.3056 02
	N (N2) /CH3	4.0006 11 1.2036 11 6.0766 10 3.4146 10	2.1110 10 1.5571 10 9.5536 09 6.7096 09 6.7096 09	8,562 ° 69 8,693 ° 69 8,693 ° 69 8,693 ° 69 8,693 ° 69 8,693 ° 69 1,1693 ° 69 1,1693 ° 69	0.000 0.0000 0.000000	2.0000 00 1.2200 00 0.1100 00 5.1400 07 5.1400 07 5.1400 07	2.6005 07 1.500 07 0.6015 07 5.6015 06 5.6015 06	2.5428.04 1.5258.04 9.9593.05 6.5308.05 6.5308.05 4.2008.05	2.0178.05 1.6568.05 1.2298.05 0.1448.05 0.1448.05	3.6655.04 2.4665 04 1.6196 04 1.60916 04 1.00916 05 7.2658 03
1317 ⁰ K	NEAN Nol NT	27.01 26.40 25.42 25.42	500 50 50 50 50 50 50 50 50 50 50 50 50	2 25 225 225 255 255 255 255 255 255 255	27×16 20×16 20×16 20×17 20×17	10°10 10°10 11°00 11°00 11°00 11°00 10°00 10°00	24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	15,03 15,03 15,79 15,79 15,20 15,20	14,56 14,59 14,20 13,56 13,56	13,22 12,60 12,50 11,50
T (4) =	SCALE HT KN	11.2 10.1 23.4 27.4	\$25000 \$2500 \$2500 \$2500 \$	ていいい。 「「」」」 いいいい。 「」」) 「」」」	000000 000000 000000 000000	104 204 205 205 205 205 205 205 205 205 205 205	79.0 70.5 70.5 79.9	40790 20090 20090	500 500 500 500 500 500 500 500 500 500	100.7 100.7 110.3 120.3 120.3 120.3
969 ⁰ K	PRESSURE DYNG/CR2	2,7226-02 1,3796-02 0,5146-03 5,7576-03	6.1056-03 3.6346-03 2.3041-63 2.74603 1.7466-03 1.2996-63 1.3996-63	1, 1999 1999 1999 1999 1999 1999 1999 19	4,031E+04 3,547E+61 2,666+61 2,5566+64 2,5566+64 1,9666+04	1.4208-64 2.1128-64 7.10128-64 7.1018-66 7.1438-65 6.14381-65 6.14381-65	5, 2090-05 2, 0950-05 1, 9350-05 1, 0768-05 1, 16768-05 1, 1670-05	0,05225-00 7.0101-00 5.5205-00 5.5205-00 5.32205-00 7.32705-00 7.32705-00	2,7836+05 2,2276+05 1,6586+65 1,4558+05 1,4558+05 1,2026+05	9, 806-70 2, 806-10 7, 0, 806-10 7, 70-10 7, 10 7, 10 10 2, 10 10 10 10 10 10 10 10 10 10 10 10 10 1
T(14) = 1	DERS I TY GR/CN3	2.4936-11 0.0745-12 3.0605-12 2.2206-12	L. 401E-12 9. 4150-13 6. 6116-13 4. 7950-13 4. 7950-13 3. 5550-13	2.10/113 2.10/2013 1.00/0013 1.00/1013 1.00/1013	8, 2726-14 6, 7129-14 5, 4640-14 4, 5066-14 3, 7276-14	2,5808+34 1,6278+34 1,3168+14 9,5198+15 6,9978+15	5.1916-)9 3.6952-)5 2.9564-)5 2.2526-)5 2.2326-)5 2.2326-)5	1.31.45~15 1.6156~15 7.6655-16 6.1496-16 6.1496-16	3.7826-16 2.5526-16 2.35626-16 2.35626-16 1.8749-16 1.4945-16	1.1958-16 5.5958-17 7.7556-17 7.7556-17 6.2526-17 5.0920-17 5.0920-17
4	TE NP K	8000 800 800 800 800 800 800 800 800 80	00000000000000000000000000000000000000	1220 1220 1220 1220 1220 1220 1220 1220	1236 1246 1246 1246 1246 1246 1246 1246 124	50000 3000 8000 8000 8000 8000 8000 8000	089989 089989 080989 199799	00000 6000 8000 8000 8000 8000 8000 800	1316 1316 1316 1316	acoos Prose
ROURE	AL T REF	000 000 000 000 000 000 000 000 000 00	000 000 000 000 000 000 000 000 000 00	2200 2200 2200 2200 2200 2200	200 200 200 200 200 200 200 200 200 200	888884 88884 88999 88999	000000 000000 000000000000000000000000	000000 00000 00000	620 670 660 700 700	720 750 750 750 750

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	N (/) / C(13	4.500E 09 1.070E 09 4.039E 08 1.878E 08	9.8208 07 5.55388 07 3.3108 07 2.0538 07 2.0538 07 1.3128 07	0.567E 05 5.729E 05 3.002E 05 2.660E 06 2.660E 06 2.660E 06	1.293E 06 9.120E 05 6.472E 05 4.615E 05 3.311E 05	1.722E 05 9.066E 05 4.8216 05 2.5566 05 1.396E 04	N (H) /CM3 2.570E 03	2,532E 05 2,493E 03 2,459E 03 2,423E 03 2,423E 03 2,423E 03 2,423E 03 2,423E 03	2,3545 03 2,3205 03 2,2575 03 2,2555 03 2,2745 03 2,2745 03	2.1536 03 2.1636 03 2.1336 03 2.1336 03 2.1046 03 2.0766 03
el 9	к (НЕ) / СПЗ	2,400E 07 1,6896 07 1,366E 07 1,173E 07	1.041E 07 9.4365 06 0.676E 06 0.676E 06 0.060E 06 7.547E 06	7.110E 06 6.732E 06 6.3375E 06 6.102E 06 5.834E 06	5.5916 06 5.3636 06 5.1616 06 4.9706 06 4.7906 06	4,463E 06 4,170E 06 3,504E 06 3,661E 06 3,637E 06	3.225E 06 3.037E 06 2.855E 06 2.695E 06 2.535E 06	2.3096 06 2.2526 06 2.1246 06 2.1246 06 2.0046 05 1.8926 06	1.7066 06 1.6876 06 1.5946 06 1.5946 05 1.5076 05 1.4256 06	1.3483 06 1.2756 06 1.2776 06 1.1426 06 1.1426 06 1.0026 06
Mod	N (0) / CH3	7.600E 10 3.334E 10 1.964E 10 1.321E 10	9.5526 09 7.2346 09 5.6576 09 4.55306 09 3.6936 09	3.0536 09 2.5526 09 2.1536 09 2.1536 09 1.8306 09 1.5656 09	1.346E 09 1.162E 09 1.607E 09 8.753E 08 7.630E 08	5.0358.00 4.4938.00 3.47288.00 2.7038.00 2.1088.00	1.6676 03 1.2916 00 1.0146 00 7.9776 07 6.2676 07	4.9636 07 3.9246 07 3.1066 07 3.4666 07 2.4666 07 2.4666 07	1.5568 07 1.2398 07 9.8798 05 7.8838 06 6.3068 06	5.047E 06 4.045E 06 3.247E 06 2.639E 06 2.099E 06
	N(02) /CH3	7.500E 10 2.185E 10 9.563E 09 5.024E 09	2.9276 09 1.8226 09 1.1895 09 1.1895 09 0.0236 08 5.5596 08	3.9326 00 2.6276 08 2.6606 08 2.6606 00 1.5186 00 1.1286 00	8.455E 07 6.376E 07 4.035E 07 3.603E 07 2.610E 07	1.665E 07 9.046E 06 5.090E 06 3.632E 06 2.214E 06	1,3546 06 0.3255 05 5.1426 05 3.1546 05 3.1546 05 1.9006 05	1.2355 05 7.7216 04 4.6426 04 3.0466 04 1.9216 04	1.2156 04 7.7036 03 4.896E 03 3.1226 03 3.1226 03 1.996F 03	1.279E 03 8.216E 02 5.292E 02 3.417E 02 2.2120 02
	n (12) / Ch3	4.000E 11 1.290E 11 6.002E 10 3.397E 10	2.080E 10 1.345E 10 9.315E 09 6.733E 09	3.4806 09 2.5966 09 1.9636 09 1.4996 09 1.4996 09 1.1546 09	0.946E 08 6.978E 08 5.470E 08 4.3011 08 4.3011 98	2.146E 08 1.366E 08 0.745E 07 5.640E 07 3.656E 07	2.3766 07 1.5526 07 1.0166 07 6.6906 06 4.412E 06	2.917E 06 1.534E 06 1.285E 06 8.563E 05 5.719E 05	3.8296 05 2.5696 05 1.7286 05 1.1656 05 7.8748 04	5.333E 04 3.620E 04 2.463E 04 1.679E 04 1.147E 04
1317 ⁰ K	HEAN NOL VI	27.01 26.39 25.88 25.41	24,97 24,97 24,13 23,33 23,33	22°95 22°95 22°21 21°56 21°51	21.10 20.65 20.54 20.24 20.24 19.55	19.61 18.92 18.67 15.07 17.72	17.39 17.50 16.55 16.55 16.37	16.15 15.95 15.73 15.29	15.06 14.81 14.54 14.25 13.93	13,59 13,59 12,83 12,41 11,97
T (4) =	SCALE HT KA	11.2 18.0 23.2 27.5	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	557.5 57.5 61.2 81.7 81.7	65-5 67.0 67.0 71.6 73.7	75.7 77.5 79.2 80.9 82.6	20200 2020 2020 2020 2020 2020 2020 20	93.0 95.2 97.5 100.1 102.9	106.1 109.7 113.7 113.7 123.3
969 ^о к	PRESSURE DYRE/CR2	2.7226-02 1.746-02 8.446-03 5.496-03	4.0516-03 2.5920-03 2.2700-03 1.7500-03 1.5050-03	1.1056-03 8.9166-04 7.2636-04 5.9656-06 6.9346-06	4.1086~04 3.4391~04 2.6951~04 2.4456~65 2.0356~65	L.512E-04 L.115E-04 B.310U-05 6.265U-05 4.750E-05	3, 6366-05 2, 6096-05 2, 1706-05 1, 6506-05 1, 3236-05	1.0416-05 8.2306-05 6.5345-06 5.2115-06 4.1740-06	3.3555-06 2.7168-06 2.2066-06 1.8026-06 1.4026-06	1.2226+06 1.0156-06 8.4676-07 7.1426-07 7.1426-07
T(14) = 1	DENSTTY GH/CM3	2.490E-11 8.117E-12 3.805E-12 2.210E-12	1.3076-12 9.2756.13 6.4886-13 6.64686-13 4.6646-13 3.4866-13	2.644E-13 2.040E-13 1.597E-13 1.266E-13 1.266E-13 1.014E-13	8.196E~14 6.679E~14 5.482E-14 4.529E-14 3.764E-14	2.639E-14 1.884E-14 1.365E-14 1.062E-14 1.440E-14	5,5726-15 4,2146-15 3,2126-15 2,4646-15 1,9026-15	1.4766-15 1.1516-15 9.0176-16 7.0926-16 5.5996-16	4.4367-16 3.5260-16 2.6130-16 2.2516-16 2.2516-16 1.6076-16	1.455E-16 1.176E-16 9.541E-17 7.767E-17 6.347E-17
6	тсир К	355 537 676 767	877 952 1015 1115	1153 1187 1215 1239 1259	1277 1291 1306 1316 1316	13337 13555 13559	1365 1365 1368 1368 1370	1371 1371 1371 1371 1371	1372 1372 1372 1372 1372	1372 1379 1373 1373 1373
HOUR=	ALT KH	120 150 150	160 170 180 190 200	210 223 240 250 250	260 270 250 290 300	320 360 360 400	500000 500000 2000000000000000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	640 640 640 700	720 740 740 780 800

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		и(л) /снз	6.5005 09 1.0705 09 6.0235 05 1.6035 05	9,7295 07 5,666 07 3,575 07 2,6775 07 2,6775 07 1,577 07				n (n) /Ga3 2.4258 (3	00000000000000000000000000000000000000	2,2478 02 2,2158 02 2,1588 03 2,1688 03 2,1688 03 2,168 0	2.1148 03 2.0005 03 2.0005 03 2.0005 03 2.0105 03 2.0165 03
	• • • •	el 9 N(HE) /CH3	2.4006 07 1.6905 07 1.3695 07 1.3695 07 1.1655 07	1.020E 07 9.261E 06 0.6655 66 7.0225 66 7.2255 66	00 2005.00 00 2027.00 00 2028.00 00 2035.20 00 2035.20 00 2035.20	00 00 00 00 00 00 00 00 00 00 00 00 00	444 944 944 944 944 944 944 944 944 944	3, 25 XG 00 5, 00 XG 00 2, 9 XZG 00 2, 7748 00 2, 7748 00 2, 65 4	2,5028 00 2,3708 00 2,2620 00 2,1518 00 2,0446 00 2,0446 00	1.5488 00 1.6588 00 1.7588 00 1.66888 06 1.66888 06 1.6048 06	1,5295 06 1,5595 06 1,3995 06 1,3995 06 1,3355 06 1,3355 06
		Mod 1101 7.5.M3	7.600E 10 3.337E 10 1.959E 10 1.260E 10	9,303609 7,050509 6,4050509 5,4050509 5,5050509 8,5050509 8,5050509	2.9558 60 2.4778 09 2.1018 09 2.1016 09 1.4996 09 1.5528 09	1.5572 5.572 5.577 5.637 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.631 5.532 5.535	6.3000 00 5.0010 00 3.0015 00 3.0015 00 3.0015 00 2.0776 00	2.6765 00 1.6055 00 1.6055 00 1.1115 00 9.0555 00	7.3100 07 6.0370 07 6.0300 07 6.0300 07 6.0300 07 8.0300 07 8.0300 07 8.0300 07	2.7195 67 2.2305 07 1.6556 07 1.5556 07 1.3516 07	1,0000 07 8,5428 06 7,0768 05 5,05968 05 4,8598 05
	•	N (02) V (13	7,5006 10 2,1666 10 9,5266 09 4,9000 09	2.6506 09 1.7576 09 1.1746 09 1.1746 09 7.5726 05 5.5776 65	3. 5765 65 2. 5565 66 2. 16655 66 1. 6625 66 1. 6625 66	0 3555 07 7,2550 07 7,550 07 7,55000000000000000000000000000000000	2.2206 07 1.2160 07 9.1019 05 9.6678 05 9.6678 05	2,5925 06 1,6646 66 1,0045 06 1,765 05 7,765 05	<pre>>>0 2011.2 >>0 2011.2 >>0 2012.1 >>0 2012.2 >> >>0 2012.2 >> >> >> >> >> >> >> >> >> >> >> >> >></pre>	4, 3168 04 2, 9168 64 1, 9478 04 1, 9438 04 1, 9438 04 5, 1398 05	0,2240,05 4,2526,03 2,9266,03 2,9266,03 2,9266,03 1,3806,03 1,3806,03
	•	N (NZ) /CH3	4.0006 11 1.2916 11 6.0555 10 8.3566 10	2,0598 10 1,3428 10 5,1418 09 5,4428 09 6,4448 09 6,4448 09 6,4448 09	3, 4098 2, 6098 2, 6098 2, 6098 1, 5368 0 3, 5368 0 3, 5368 1, 2378 0 2, 2378 0 2, 2378 0 2, 2378 1, 23788 1,	2.7	2.7228 00 1.0208 00 1.2208 01 1.2308 07 5.4558 07 5.6558 07 5.6028 07	3, 5946 07 2, 7646 07 1, 9196 07 1, 3376 97 1, 3396 96	6.5403 05 6.5403 05 6.5916 06 8.23968 06 8.23968 06 1.6106 06	1.140E 00 0.053E 05 5.755E 05 4.101E 05 2.928E 05	2.0955 05 1.5025 05 1.0705 05 7.7595 06 7.7595 06 5.5935 06
	·	1317 ^o k nean nol kt	27.01 26,29 25,59 25,52	24° 98 24° 96 224° 14 224° 14 224° 20 224° 20 224° 20 234° 20 24° 20 24° 20 24° 20 24° 24° 24° 20 24° 24° 24° 24° 24° 24° 24° 24° 24° 24°	23.07 22.13 22.00 22.00 21.77	20°02 20°02 20°02 20°22 20°22 20°22 20°22	5000 5000 5000 5000 5000 5000 5000 500	17,00 17,00 17,00 17,00 16,00	10,44 10,44 10,25 10,25 10,25 10,450	000 00 00 00 00 00 00 00 00 00 00 00 00	14° 14° 14° 14° 14° 14° 14° 14° 14° 14°
		т (4) = SCALE НТ КИ	11 16:0 23:2 23:8		00000 00000 00000 00000 00000 00000	30300 2445 2455 2457 255 255 255 255 255 255 255 255 255 2	80000 2000 2000 2000 2000 2000 2000 200	୍	03050 0300 0300 0300 0300 0300 0300 030	111.9 1122.0 107.0 107.0 111.9	12150° 220° 12150° 12150° 12150° 12150°
		969 ^O K PRESSURE DYUE/CR2	2.7228-02 1.3738-02 1.4406-03 5.7046-03	4.0036-03 3.0426-03 2.8946-09 2.8946-09 1.17576-09 1.4400-08	1.1670-03 5.7270-03 6.0716-05 6.7506-05 6.7506-05	5.65116 2.0510 2.0510 2.0510 2.0510 2.0510 2.05111 2.051111 2.051111 2.051111 2.05111111111111111111111111111111111111	1.9576+05 1.559-05 1.1.550-05 0.9816-05 7.6586-05	5.500 5.5000 5.50000 5.5000 5.5000 5.5000 5.5000 5.50000 5.50000 5.50000 5.50000 5.50000 5.500000000	1, 8200 1, 1200 1, 1200 1, 1200 1, 1200 1, 1300 8, 11300 8, 11300 8, 11300	6.0798-06 5.5188-66 5.5781-65 8.8791-65 8.8666-66 3.1741-06	2.1628-06 2.2556405 1.0506405 1.6026405 1.3646406
		T(14) = 1 DENSITY GUYCHN	2.4946-11 0.1210-12 3.8716-12 2.1896-12	1.367E+12 9.1000+13 6.3000+13 4.6000+13 3.4400+13	2.62704)3 2.640413 1.620413 1.8008413 1.0550413	6.6997+14 1.1011 14 5.411 14 5.411 14 5.4011+14 2.2319+14	3.0648-04 2.2548-14 1.6408-14 1.2778-15 9.7708-15	<pre>% ************************************</pre>	2.2978-15 1.6012-15 1.4016-15 1.1965-15 9.1132-16	7。5048-16 6。4523-16 6、2523-16 6、2828-16 4、2848-16 3。5658-16	2.9466-16 2.4375-16 2.6226-16 2.6526-16 1.6616-16 1.4016-16
		8 Tekip K	355 537 796 796	697 567 1155 11	1000 1000 1000 1000 1000 1000 1000 100	00000 00000 00000 0000 0000 0000 0000	2355 2351 2351 2351 2351 2351 2351 2351		8 4 6 3 3 8 5 5 5 5 5 8 5 5 5 5 5 8 5 5 5 5 5 8 5 5 5 5	15555 155555 1555555	1592 1597 1592 1592 1592
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008-1	0	T(14) = 1	969 ^O K	ጉ(ረ) =	1317 ^o k			Roc	cl S	
∽	TENP	DENSITY CHICHA	PRESSURE DYNEZCH2	SCALE HT KA	NGL WT	N(N2) /CK3	N(02) /CM3	N(U) 7CR3	k(ME) /CH3	7083
	د د		5 7336.LV2	2-11	27.01	4.000E 11	7.500E 10	7.600E 10	2.400E 07	4.500E 09
	355	Z.59JE-11 A.076F-12	2.1251-02 1.378E-02	10.1	26.40	1.2845 11	2.1755 10	3.3135 10 1.930F 10	1.3485 07	4,0035 00
20	693	3.831E-12	8.5326-03 6.900-03	23.7 28.9	25.09 25.44	5.9952 10 3.3185 10	9.4465 09 4.9255 09	1.276E 10	1.1428 07	1.655E 08
0	828	2.1965-12	0.0000000				00 3670 6	0,001F 09	1.0015 07	9.7656 07
0	948	1.3456-12	4.2366-03	33.8	25.03	2.0315 10	2.001 00 2.00 1.0001 0.0	6.8246 09	6.967E 06	5.609E 07
2	1201	9.00/11-13	3.2106-03	96°3	24.6%	1.3325 10 6.3035 09	1.1946 09	5.3216 09	8.172E 06	3.4345 07
5	1153	6.3506-13	2.507E-03	0•25 ·	80.00 23.03	6° 2048 08	6.254E 00	4.270E 09	7.5465 06	2.20010 07
000	1237	6.6596-13 3.5256-13	1.6295-03	20.05	23.60	4.883E 09	5.095E 06	3.505E 09	1.00	
2				1 1	00	00 1101 C	4.31AE 08	2.929E 09	6.616E 06	1.000E 07
01	1376	2.7335-13	1.3/36-03	1. 1. 1.	25.6U	9.850F 09	3.2276 08	2.482E 09	6.2605 06	7.002E U6
50	1432	2,161E-13	1.1205-03	0 4 0 4 0 4 0 4	14.22	2.2316 09	2.452E 03	2.1205 09	5.954E 06	5.000E UG
30	14.60	1.737E-13	4°42/E~04		22.38	1.7695 09	1.830E 08	1.842E 09	Secure Up	3,000 UN
0 2 2	1527	1.415E-13 1.166E-13	6.6306-04	64.6	22.10	1.4166 09	1.470E 03	1.604E 09	00 U175 0	
2	•				21 12	1.1465 09	1.155E 00	1.410E 09	5,2406 06	2.0155 06
60	1588	9.694E-14	5. BGOF-04	000	21.55	9.304E 00	9.143E 07	1.244E 09	5,050E 06	1 1495 CC
70	1615	B.1 305.19	5, UOSCE-04	1 1 1	21-29	7.613E 00	7.265E 07	1.1036 39		A AROF OF
00	1637	6.868E***	4.550E-03	73.0	21.04	6.261E 08	5.0376 07	9.015E 08	4. 1105 JU	6,645E 05
000	1673	4.989E-14	3.3386-04	14.9	20.79	5.172E 08	4.699E 01	6.102E 00	00 100 ez	
2							2. DROF 07	7.038E 00	4.301E 06	3.9386 05
20	1703	3.697E-14	2.571E-04	78.3	20.32		2.0445 07	5.700E 08	4,0635 06	2,367E U5
0'2	1723	2.7836-14	2.0021-04	* * 7 Q	19.67	1.7496 03	1.3695 07	4.646E 08	. 3°649E 06	
60	1739	2.123E-14 1 6305-14	1.245F-04	67°L	19.08	1.2356 08	9.237E 06	3.804E 00	3.673F 06	5.441E 04
000	1753	1.276E-14	9.933E-05	69°7	10.73	8.8135 01	00 2507 0			
		9 C - UC 00 - C	7.045F-05	57.2	18.39	6.294E 07	4.2705 06	2.577E 06	3,305E 06 3,166E 06	(H) N
000	1759	1 00/02 15	6.4296-05	5. 76	18.09	4.517E 07	2.925E 06	Z.1305 00	3.0015 06	/CE3
	1767	6.3246-15	5.2166-05	96.8	17.81	3.253E 07	2.0115 00	- 1.464F 08	2.8635 06	
203	1769	5.0736-15	4.2526-05	6°26	17.55	2.549E UT	9.593E 05	1.2176 03	· 2.733E 06	Z.333E 03
00	1771	v.092E-15	3.4616-05	TULAU					2 2005 UK	2,3056 03
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	1776	0, 2015-0 2, 2015-15	2.3602-05	104.9	16.69	8.983E 00	4.628E 05		2,3626 06	2.252E 03
	57.7 C	2,2095-15	1.954L-05	106.8	16.69	6.549E 06	3.220E UV	E. POLE 07	2.2776 06	2 . 226E 03
	1776	1.6146-15	1,6236-05	100.7	16.51	4.785E UG	2. 2000 00 2.	A.024F 07	2.1775 06	2.201E 03
000	1111	1.4956-15	1.3526-05	110.5	16.34	3.503E Ub	712120 07			
		1 2346-15	1.1306-05	112.3	16.17	2.570E 06	1.1096.05	A.129E 07	2.083E 06	2.1765 03 2.1525 03
0 V 0	0/11	1 4056-15	9.4706-06	114.2	16.00	1.839E 06	7.5005 04		1.907F 06	2.1295 03
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100	1779	5.943E-16	5.6796-06	119.9	15.50	7.582E US				
	066.	7 061E-1V	4 - 806E-06	122.0	15.33	5.613E 05	1.9516 04	1.732E 07	1.675E U6 1.605F U6	2.038E 03
071	1783	4.1846-16	4.0555-06	124.1	15.15	4.1635 05	1.58/E UT 0 0786 03	1.2326 07	1.5386 06	2.017E 03
760	1785	3.523E16	3.4826-06	126.4	14.97	3.0936 UD	7.0495 03	1.0415 07	1.475E 06	1,995 13
7.60	1783	2.9726-16	2.9776-05	ວ. ອີ້ຍອີ	14.10	1.716F 05	5.0406 03	8.798E 06	1.4145 06	1.974E US
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1317 ⁰ K	REAN Not NT	27.01 26.50 25.91 25.61	25,09 24,73 24,59 24,59 24,67 25,16	9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	22,00 21,00 21,00 21,30 21,30 21,30 21,30	20,00 20,00 10,000 10,0000 10,000 10,0000 10,00000000	10, 75 10, 75 10, 16 17, 10 17, 10 17	17.42 17.42 17.00 16.92 16.64	16,67 16,57 16,25 16,25 16,60 15,64	15.69 15.86
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1969 ⁰ K	PRESSURE DYRE/CN2	2.7220-02 1.3076-02 8.6896+03 6.0246-03	4,6426-03 3,6142-03 2,1022-03 2,1022-03 2,1026-03 2,1026-03 1,1972-03	1.0570-05 2.010-05 2.010-05 2.100-04 2.100-05 2.1000-05 2.1000000000000000000000000000000000000	6,0)46+04 5,5250-04 6,1760-04 6,1760-04 4,5200-04 8,5200-04 8,5200-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5000-04 8,5	3.1038-77 2.4428-07 1.9418-05 1.9418-05 1.9540-05 1.3528-06	1.0146-04 0.2640-05 6.7125-05 5.5744-05 6.6724-05	3, 8238-05 3, 7660-05 2, 2600-05 2, 2300-05 2, 2300-05	1,5610-05 1,3376-05 1,1336-05 9,6326-05 0,2076-05	7,0116-06 6,6036-05 5,1536-06 6,1536-06 6,6348-06 3,8256-06
T (14) =	DENS LTY GR/CH3	2.4906-11 7.9036-12 3.7776-12 2.1316-12	1.3406412 9.0736412 6.4745413 6.4745413 6.6041413 8.6042413	2.600000 2.900000 2.900000 2.600000 2.600000 1.800000 1.800000 1.800000 1.80000	1.0128-13 9.0508-14 7.7089-14 7.7089-14 6.5568-14 5.6766-14	4, 2596-14 3, 2446-14 2, 5446-14 2, 5446-14 1, 9516-14 1, 5350-14	1.2176-15 9.7257-19 7.6246-19 6.3336-19 5.1556-15	4, 2165-15 3, 4655-15 2, 6595-15 2, 3695-15 2, 3695-15 1, 9705-15	1.663C~15 1.375E~15 1.375E~15 9.712E~15 9.712E~16	6, 9306-16 5, 8748-16 4, 9906-16 4, 2466-16 4, 2466-16 3, 6236-16
12	TERP K	955 952 717 966	C001 20111 20111 20111 20111	1468 1572 1574 1675 1657 1657	1000 1717 1762 1763 1763 1763	1011 1011 1011 1011 1011 1011 1011 101	1050 1006 1006 10092 1097	500 500 500 500 500 50 50 50 50 50 50 50	1506 1506 1508 1508 1508	000 000 0101 0191 0191
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odel 9	N (HB ZCR3	2.4005 1.4466 1.3076 1.1036	9. 6518 9. 6518 7. 9216 7. 9216 7. 93998 6. 8688	6.4795 6.1498 5.61798 5.6170 5.3978	5.1999 5.0208 4.0208 4.70508	4.000 000 000 000 000 000 000 000 000 00	3.3656 3.3656 3.0766 2.9656 2.9556	2.7036 2.5926 2.4866 2.3666 2.3666	2.2006 2.1136 2.136 2.0306 1.9526 1.8526	1.805E 1.736E 1.670E 1.670E 1.6506E 1.548E
14		0000	00000 00000	000000000000000000000000000000000000000	6000 6000 6000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000 00000000000000000000000000000000	08 07 07	07 07 07 07	07 70 70 70
	N (0) /CH3	7.600E 3.218E 1.858E 1.229E	0.828E 6.702E 5.293E 4.303E 3.576E	3.023E 2.590E 2.243E 1.960E 1.725E	1.527E 1.359E 1.214E 1.009E 9.750E	7.980E 6.557E 5.421E 4.504E 3.757E	3.142E 2.637E 2.218E 1.09E 1.578E 1.578E	1.335E 1.131E 9.591E 0.147E 6.928E	5.8995 5.0285 4.2915 3.6655 3.1345	2.683E 2.298E 1.971E 1.692E 1.692E 1.454E
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1317 ⁰ K	NEAN Not ut	27.01 26.41 25.93 25.93	25, 13 26, 79 26, 75 26, 15 26, 15 23, 05	23.56 23.27 23.00 22.47 22.47	22.22 21.97 21.72 21.49 21.25	20.80 20.30 19.97 19.29 19.24	18.90 18.59 18.30 18.03 17.78	17.55 17.35 17.13 16.94 16.77	16.60 16.63 16.28 16.13 15.98	15.83 15.68 15.53 15.21
T (4) =	SCALE HY KN	11.2 18.8 25.2 31.1	8 8 8 9 9 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	57. 60. 60. 50. 50. 50. 50. 50. 50. 50. 50. 50. 5	71.5 775.5 775.5 775.5 775.5	000 00 00 00 00 00 00 00 00 00 00 00 00	98.2 130.9 103.4 105.8 105.8	110.2 112.6 112.6 116.6 118.8	120.8 122.8 124.7 126.7 128.6	130.6 132.7 134.7 136.9 135.1
1969 ⁰ K	PRESSURE DYNE/CR2	2.7226-02 1.3966-02 8.8386-03 6.1876-03	4,6008-03 3,5008-03 2,8338-03 2,3018-03 2,3018-03 2,3018-03	1.5575-03 1.515-03 1.515-03 1.115-03 9.7776-04 8.432E-04	7,3096-04 6,3656-04 5,5656-04 4,0838-04 4,2998-04	3.3626-04 2.6556-04 2.1166-04 1.3746-04	1.1165-04 9.1315-04 7.5675-05 6.2015-05 5.1445-05	4.2836-05 3.5866-05 3.0030-65 2.5766-65 2.1326-05	1.804E-05 1.531E-05 1.302E-05 1.111E-05 9.459E-06	8.140E-06 6.933E-06 6.021E-06 5.197E-06 4.496E-06
T()4) =	DENS LTY GNZCMS	2.4936-11 7.8906-12 3.7445-12 2.1336-12	1.3510-12 9.2266-13 6.6376-13 4.9520-13 3.0206-13	3,0096-13 2,4156-13 1,9476-13 1,6476-13 1,6276-13 1,3516-13	1.1356-13 9.6146-14 0.1956-14 7.0256-14 7.0256-14	4、5546-14 3、4776-14 2、6896-14 2、1016-14 2、1016-14	1.317E-14 1.556E-14 6.518E-15 6.915E-15 5.645E-15	4.631E-15 3.8165-15 3.161E-15 2.627E-15 2.192E-15	1.835E-15 1.541E-15 1.290E-15 1.096E-15 9.281E-16	7.678F-16 6.702E-16 5.714E-16 4.881E-16 4.179E-16
14	TELIP K	355 562 736 091	1029 1155 1256 1256 1256 1256	1697 1664 1664 1664 1667	5101 5271 5771 5271 5271	1647 1927 1927 1917	1926 1934 1945 1945 1949	1952 1955 1955 1960	1963 1963 1965 1965	1967 1968 1968 1968 1969
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c -	nthe) /cn3	2.4002 07 1.6366 07 1.3016 07 1.3016 07	9.677 90 90 90 90 90 90 90 90 90 90	6, 1,450 - 66 6, 2120 - 66 6, 2120 - 6 6, 2720 - 66 7, 2610 - 66 7, 2610 - 66	5.2455 06 5.6620 05 4.6965 05 4.1866 05 4.1866 05 4.1965 06	4.3332 00 4.7016 00 3.0028 00 3.0028 00 9.5268 00 9.5268 00	3, 50310 2, 2011 2, 50512 2, 50513 2, 5	2,6915 06 2,5796 06 2,6726 06 2,6726 06 2,3716 06 2,3716 06 2,3716 06	2.10%E 00 2.0%TE 00 2.01%E 00 2.01%E 00 1.9355 06 1.0005 06	1, 7005 00 1, 7156 00 1,6535 00 1,6535 06 1,5915 06 1,5915 06
, e - M	N(0) /CN3	-7.6006 10 3.1915 10 1.0506 10 1.2336 10	8,9078 09 6,7528 09 9,83776 09 4,83778 09 3,83778 09	3.0755 69 2.6375 65 2.7765 65 1.5555 65 1.7445 69	1.5415 09 1.3605 09 1.3205 09 1.6927 09 9.7505 09	7,5535 65 6.1995 65 5.3621 65 5.3621 65 5.3551 65 8.6355 65	3,6776 03 2,5756 03 7,1756 03 7,1756 03 1,5166 03 1,5206 03 1,5206 03	1.2915 66 1.0915 66 9.2595 07 7.8325 67 6.6400 67	5.6518 07 4.0005 07 4.0005 07 4.0055 07 3.4938 07 2.9828 07	2.5493 07 2.1693 07 1.0676 07 1.6076 07 1.3733 07
	N(02) VCf13	7.500E 10 2.117E 10 9.307E 09 4.976E 09	2,9035 09 1,5267 09 1,5150 09 9,3176 00 9,3176 00	5, 6027 66 5, 0016 60 2, 9966 60 2, 3335 00 1, 6628 00 1, 6628 00	1,4565 08 1,1765 08 9,4555 05 7,6555 07 7,6555 07 7,6555 07	4.2016 07 2.0545 07 1.55545 07 1.3545 07 9.4228 07	6.5533 66 4.6303 66 5.2708 66 2.3168 66 2.3168 66 2.6496 66	17776 06 2.04786 05 2.04786 05 2.3518 05 2.3518 05 2.3518 05	2.2696 05 1.6446 05 1.1946 05 0.6696 04 0.6696 04	A. 6293 05 0. 555 04 2. 4655 04 1. 8266 04 1. 3446 04
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	T(14) = 19 DECSIYY GRZEN3	2.4906~11 7.8366~12 3.7426~12 2.1469~12	1.3703-12 9.2003-12 6.7677-13 9.006-13	2, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1.140L-13 9.6276-14 6.1638-14 6.990E-14 6.0128-14	4.5517774 3.4777774 2.6295414 2.62926414 2.62926414	1.2700-14 1.0220-14 6.2200-15 6.6618-15 5.4278-15	4,440(-15 4,440(-15 8,600(-15 8,000(-15 8,0910-15 2,0910-15 2,0910-15	1.7493-15 1.4676-15 1.2345-15 1.2345-15 1.0416-15 8.8016-14	Y, 6621 - 16 - 1363 - 16 5, 4001 - 16 4, 4005 - 16 3, 9411 - 16
	16 1EIP K	855 965 965 965	8 8 8 4 4 8 2 4 4 4 4 8 2 4 4 6 4 4 8 2 4 4 6 6 4 4 8 2 4 4 6 6 4 8 4 4 6 6 4 8 4 6 6 4 8 4 6 6 6 4 8 4 6 6 6 7 8 4 6 6 6 7 8 4 6 6 6 7 8 4 6 6 7 8 4 6 6 7 8 4 6 6 7 8 4 7 7 7 8 4 7 8		े 20 - 20 के 20 20 - 20 के 20 20 - 20 के 20 20 - 20 - 20 20 - 20 20 - 20 20 - 20 20 20 20 20 20 20 20 20 20 20 20 20 2	1001 1002 1002 1002 1002 1002	8058 8058 8058 8058 8058 8058 8058 8058	1932 1935 1935 1940 1940	ち くりん い う くう くう う う う う う て 一 一 一 一	100 100 100 100 100 100 100 100 100 100
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	N (A) /Ch3	4,500609 1,042509 4,009508 1,929508	1.0556 00 6.2716 07 3.9496 07 2.5946 07 1.7606 07	1.2235 07 0.6775 05 6.2535 06 4.5676 06 3.3726 06	2.5138 06 1.6898 06 1.4208 06 1.4208 06 1.0578 06 8.3128 05	4.9200 05 2.934005 2.8045005 1.8045005 1.1096 05 6.8696 04	N (H) /CM3 2.316E 03	2.2696 03 2.2626 03 2.2356 03 2.2356 03 2.2356 03 2.2056 03 2.1646 03 2.1646 03	2.1598 03 2.1358 03 2.1128 03 2.1128 03 2.1128 03 2.0998 03 2.0678 03	2.0456 03 2.0236 03 2.6026 03 1.9816 03 1.9816 03
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ющ	N(0) /CH3	7.6006 10 3.1096 10 1.0566 10 1.2446 10	9.0406 09 6.919E 09 5.449E 09 4.470E 09 3.713E 09	3.1316 09 2.6726 09 2.3036 09 2.0006 09 1.7496 09	1.538E 09 1.356E 09 1.206E 09 1.072E 09 9.566E 00	7.6776 03 6.2126 03 5.053E 05 4.141E 03 3.434E 03	2.805E 08 2.321E 08 1.926E 00 1.602E 00 1.335E 00	1.1155 09 9.3245 07 7.8115 07 6.5545 07 5.5545 07	4.632E 07 3.902E 07 3.291E 07 2.778E 07 2.349E 07 2.349E 07	1.9876 07 1.6846 07 1.4286 07 1.4286 07 1.2126 07 1.0306 67
	N(02) /CK3	7.500E 10 2.115E 10 9.335E 09 5.014E 09	3.0136 09 1.9486 09 1.3246 09 9.3416 00 6.7766 00	5.023E 08 3.788E 08 2.897E 08 2.261E 08 2.261E 08 1.750E 00	1.3786 08 1.0926 03 0.7086 07 6.9795 07 5.6196 07	3.6936 07 2.4446 67 1.6362 07 1.1076 07 7.5366 05	5.1446 06 3.5396 06 2.4466 36 1.6976 06 1.1826 06	8.2556 05 5.7066 05 4.0676 05 2.8666 05 2.8666 05 2.0256 05	1.4358 05 1.0195 05 7.2518 04 5.1728 04 3.6988 04	2.649E 04 1.902E 04 1.366E 04 9.866E 04 7.121E 03
	N(H2) /CH3	4.0006 11 1.2456 11 5.8876 10 3.3416 10	2.1056 10 1.4195 10 1.0036 10 7.3305 U9 5.4995 09	4.2095 09 3.2735 09 2.5795 09 2.0535 09 1.6495 09	1.334E 09 1.007E 09 0.898E 06 7.319E 03 6.046F 73	4.1675 08 2.9055 00 2.0045 08 2.0495 08 1.4495 08 1.4495 08	7.3946 07 5.3266 07 3.6526 07 2.7966 07 2.0366 07	1.487E 07 1.089E 07 7.995E 06 5.885E 06 4.341E 06	3.2106 06 2.3786 06 1.7666 06 1.3136 05 9.7086 05	7.3396 35 5.4606 35 4.0976 35 3.0766 35 2.3136 35
No LIEI	REAN NOL NT	27.01 26.41 25.94 25.52	25.14 24.78 24.44 24.11 23.79	23.49 23.18 22.89 22.60 22.32	22.04 21.78 21.51 21.25 21.26 21.01	20.53 20.08 19.66 19.27 18.91	18.56 18.25 17.97 17.70 17.46	17,23 17,23 16,63 16,64 16,47	16,30 16,13 15,97 15,81 15,65	15.49 15.32 15.15 14.97 14.78
T (4) =	SCALE HI KA	11.2 19.0 25.3 30.8	80°4 80°1 84°5 1°5 1°0 81°0	54 °0 56 ° 8 61°9 67°2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	77.9 81.2 84.3 87.3 90.1	92.8 95.4 97.8 100.2 102.4	104.6 106.7 108.7 110.7 112.7	114.6 116.5 118.4 120.4 122.4	124.4 126.5 128.8 131.1 133.5
1969 ⁰ K	PRESSURE DYNGZCA2	2.7226-02 1.6026-02 8.9156+03 6.2416+03	4. 6215-03 3. 5506-03 2. 8006-03 2. 8886-03 2. 8886-03 1. 8396-03	1.5206-03 1.2696-03 1.0666-03 9.0616-04 7.7226-04	6.635E-04 5.721E-04 4.955E-04 4.305E-04 4.305E-04	2.0916-04 2.2488-04 1.7628-04 1.3586-04 1.3586-04	8,9526-05 7,2366-05 5,8656-05 4,8086-05 3,9476-05	3.2540-05 2.6936-05 2.2360-05 2.2360-05 1.0546-05 1.5580-05 1.5580-05	1.3076-05 1.0996-05 9.2716-06 7.8616-06 6.6596-06	5,6556-06 4,8256-06 4,1236-06 4,1236-06 3,5356-06 3,0396-06
T(14) = [DENS I TY GAZEN3	2.49.6-11 7.6326-12 3.7536-12 2.1636-12	1.3865-13 9.5145-13 6.8516-13 5.1106-13 3.9156-13	3.06/6-13 2.4396-13 1.9696-13 1.6086-13 1.6086-13 1.3276-13	1.1046-13 9.2576-14 7.8126-14 6.6316-14 5.6596-14	4.179E-14 3.135E-14 2.365E-14 1.036E-14 1.428E-14	1.1186-14 8.8518-15 7.0578-15 5.6678-15 4.5746-15	3. 7136-15 3. 0306-15 2. 4046-15 2. 4046-15 2. 0456-15 1. 6906-15	1.491E-15 1.1666-15 9.7286-16 8.1418-10 6.8318-10	5.746E-16 4.845E-16 4.094E-16 3.467E-16 3.467E-16 2.943E-16
10	TEMP	355 569 741 886	1008 1112 1201 1278 1278 1366	1401 1404 1521 1521 1521	1593 1619 1651 1661 1661	1708 1732 1732 1778 1778	1767 1795 1602 1608 1612	1816 1819 1822 1822 1826	1828 1830 1831 1832 1833	1881 1883 1883 1883 1883 1883 1883 1883
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גרד גוו	10.02 R	054511Y 64/643	PRESSURE DYACZCH2	SCALE NT KR	NEAN NOL NT	N (N2) /CN3	N102) ZCN3	к(0) /снз	n (HE) / Ch3	N (A) / CN3
120 130 150	355 733 060	2.4905-11 7.6576-12 3.7776-12 2.1826-12	2.7226-02 1.4000-02 0.6725-03 6.1785-03	11, 25, 25, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	27.01 26.41 25.93 25.51	4.0006 11 1.2445 11 5.9236 10 8.3366 10	7.500E 10 2.1226 10 9.2558 10 5.0558 09	7.630E 10 3.201E 10 1.871E 10 1.266E 10	2.400E 07 1.642E 07 1.312E 07 1.119E 07	4.5060 09 1.0450 09 4.0248 00 1.5358 05
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88888 9999 9999 9999 9999 9999 9999 99	1575 1575 1575 1575 1575	3, 7795~19 2, 7005~19 2, 0739~19 2, 0739~14 1, 1626~14 1, 1926~16	2,4036-04 1,8370-94 1,651-94 1,661-94 1,661-64 1,6641-64	72:55 75 75 75 75 75 75 75 75 75 75 75 75 7	20, 20 15, 25 15, 25 15, 25 15, 25 15, 25	3.5745 05 2.4115 05 1.6552 05 1.1219 08 1.1219 08	3,0475 07 1,5465 07 1,2546 07 1,2246 06 5,2466 06 5,2466 06	7.3426 CG 5.6426 CG 4.6726 CG 4.6726 CG 2.7556 CG 3.7556 CG	4.4948 00 4.2816 00 4.2816 00 3.9216 00 3.7716 00 3.7716 00 3.7716 00	
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888889 866939 000939	1602 1605 1665 1665	2.7538~15 2.2030~15 1.716~15 1.6507~15 1.6507~15	2.1696-05 1.7082-05 1.7082-05 1.1766-05 2.0456-05	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	16.02 16.61 16.42 16.42 16.62	0.7368 06 6.1438 06 4.3348 06 8.3348 05 3.0448 66 2.1648 05	4.4186 05 2.5566 65 2.59566 65 1.5956 65 1.5346 65 0.9956 65	0.6645 07 7.0005 07 5.0135 07 4.7665 07 3.9125 07 3.9125 07	2,60%8 05 2,4798 06 2,5788 06 2,5788 06 2,5788 06 2,1288 06	2, 51 E 0 2, 51 E 0 2, 55
000000 00000 0000 0000 0000	1609 1609 1609	9,4247-16 7,6899-16 6,2936-16 5,1666-16 4,2526-16	1,9997.00 6,577.00 5,677.1.00 5,677.1.00 4,15197.00 8,70481.00 8,70481.00	1005 1005 1005 110 100 110 110	00000000000000000000000000000000000000	1.5300 00 1.0948 00 7.7978 05 5.5691 05 3.9806 05	6.0000 04 4.1210 04 2.7990 04 1.9966 64 1.3016 04	3.2165 67 2.6476 07 2.1825 67 1.6036 97 1.4876 97	2.027E 06 1.939E 06 1.039E 05 1.752E 05 1.752E 06	2,2625 00 2,2555 00 2,2676 00 2,2676 00 2,1565 03
720 740 760 760 802	1609 1610 1610 1610	3,5095-16 2,5035-16 2,4065-16 2,4035-16 2,0035-16 1,6656-16	3.750:-06 2.2451-06 2.2316-06 1.8895-06 1.6040-06	2000 2000 2000 2000 2000 200 200 200 20	14.90 14.68 14.45 14.45 13.93	2.6558 65 2.0548 05 1.4795 05 1.6795 05 1.0676 05 7.7058 04	0.9005 03 6.1025 03 4.1935 03 4.1935 03 2.8875 03 2.8875 03 1.9935 03	1.2309 07 1.0169 07 8.4396 05 7.0026 05 7.0026 05 5.8166 25	1.553E 66 1.519E 06 1.549E 06 1.449E 06 1.320E 06	2.1569 03 2.1569 03 2.0798 03 2.0549 03 2.0549 03

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	(A) CH3	00E 09 49E 09 38E 08 36E 08	506 08 546 03 076 07 406 07 206 07	9688 07 506 06 716 06 2228 06 538 06	05 576 05 576 05 576 05 576 05 576 05	00000000000000000000000000000000000000	(H) (CM3 26E 03	90 90 90 90 90 90 90 90 90 90 90 90 90 9	244 242 242 242 242 242 242 242 242 242	76E 03 48E 03 20E 03
	ΖŇ	4 - 4 - 4 4 - 4 - 4 7 - 4 - 4 7 - 7 7 - 7	99999 99999 99999 99999 99999 9999 9999 9999	0 10 10 F 0 H F 10 M N	94949 949494	00000 00000 00000	N N	N N N N N 4 4 4 8 6 6 4 4 4 8 6 6 7 4 4 8 6 6 7 4 4 8 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	52,22 5,22,2 5,25,2 5,25,2 5,25,2 5,25,2 5,25,25,2 5,25,25,25,25,25,25,25,25,25,25,25,25,25	2.1.5
1 9	R(HE) /CH3	2.400E 07 1.649E 07 1.322E 07 1.132E 07	1.005E 07 9.130E 06 9.424E 06 7.858E 06 7.390E 06	6.993E 06 6.649E 06 6.346E 06 6.346E 06 5.346E 06 5.830E 06	5.605E 06 5.399E 06 5.207E 06 5.027E 06 4.858E 06	4-548E 06 4-568E 06 4-268E 06 4-012E 06 3-777E 06 3-560E 06	3.357E 06 3.168E 06 2.993E 06 2.828E 06 2.674E 05	2.530E 06 2.394E 06 2.394E 06 2.267E 06 2.147E 06 2.034E 06	1.928E 06 1.828E 06 1.734E 06 1.645E 06 1.645E 06 1.561E 06	1.482E 06 1.407E 06 1.337F 06
Mođe	N(0) /CM3	.600E 10 .220E 10 .891E 10	.327E 09 .157E 09 .679E 09 .617E 09 .820E 09	.205E 09 .717E 09 .323E 09 .999E 09 .731E 09	.5056 09 -3136 09 -1506 09 -1506 09 -8806 09	•913E 08 •414E 08 •260E 08 •364E 08 •364E 08	.112E 08 .631E 08 .341E 08 .071E 08 .573E 07	.873E 07 .519E 07 .438E 07 .438E 07 .573E 07	.3276 07 .8316 07 .5236 07 .2356 07 .2356 07	-142E 06 -625E 06 -1966 06
	N(02) /CM3		• 034E 09 • 945E 09 7 • 307E 09 5 • 307E 09 5	• 704E 08 3 • • 71E 08 2 • 572E 08 2 • 552E 08 2 • 954E 08 1	•137E 08 1 •745E 07 1 •751E 07 1 •247E 07 1	5015 07 6 5445 07 5 6106 06 4 0176 06 3 7876 06 3	.381E 06 2 .511E 06 1 .624E 05 1 .151E 05 1 .944E 05 8	-537E 05 -537E 05 -059E 05 -057E 05 -657E 04 -467E 04 2	- \$13E 04 2 • 905E 04 1 • 249E 04 1 • 249E 04 1 • 207E 03 1	-5715 03 8 -3645 03 6 -5495 03 5
	N(N2) /CM3	4.000E 11 7 1.2556 11 2 5.964E 10 3 3.391E 10 5	2.133E 10 3 1.430E 10 1 1.001E 10 1 7.235E 09 6	4.030E 09 3.078E 09 2.377E 09 1.853E 09 1.454E 09 1	1.1496 09 9.1206 06 7.2726 06 5.8206 08 4.6726 08	3.035E 08 2 1.989E 08 1 1.312E 08 5 8.702E 07 6 5.799E 07 3	3.863E 07 2 2.553E 07 2 2.553E 07 1 1.747E 07 9 1.180E 07 6 7.956E 06 3	5.433E 06 2 3.770E 06 1 2.5276 06 1 1.730E 06 1 1.187E 05 6	8.164E 05 2 5.6284E 05 1 3.8688E 05 1 3.6988E 05 2 2.692E 05 9 1.968E 05 5	1.299E 05 3 9.054E 04 2 4.3336 04 2
1317 ^o k	NGAN Mol WT	27.01 26.41 25.93 25.49	25.09 24.11 24.33 23.97 23.62	23, 27 22, 93 22, 59 22, 59 22, 26 21, 94	21.62 21.62 21.32 21.02 20.72 20.44	19,50 19,50 18,55 18,53 18,16	17.81 17.50 17.22 16.95 16.73	16.51 16.30 16.10 15.70 15.70	25.51 25.30 15.08 14.85 14.60	14.34
T(4) =	SCALE HT KH	11.2 18.8 24.7 29.6	80.00 80.000 80.000 80.000 80.000 80.0000 80.00000000	48.7 52.9 54.8 56.6	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	67.3 69.9 72.4 76.9	79.0 81.0 82.0 82.9 86.8 86.8	88 99 99 99 99 99 99 99 99 90 90 90 90 90	96.9 98.8 100.9 103.0	107.9 110.7
969 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3976-02 8.8086-03 6.0946-03	4.448E-03 3.362E+03 2.605E+03 2.6057E-03 2.6057E-03 1.6477E-03	1.3356-03 1.0926-03 9.0086-04 7.4826-04 6.2546-04	5.2556~04 4.4386-04 3.7646-04 3.2066-04 2.7436-04	2.023E-04 1.511E-04 1.141E-04 8.675E-05 6.675E-05	5.1486-05 4.0096-05 3.1416-05 2.4756-05 1.9606-05	1.559E-05 1.246E-05 9.994E-06 8.0514-06 6.512E-06	5.2076-06 4.3106-06 3.5288-06 2.8998-06 2.3938-06	1.983E-06 1.652E-06
T(14) = 1	DENSITY GM/CM3	2.493E-11 7.896E-12 3.834E-12 2.198E-12	1.408E-12 9.624E-13 6.885E-13 5.090E-13 3.859E-13 3.859E-13	2.983E-13 2.343E-13 1.864E-13 1.499E-13 1.217E-13	9.9596-14 8.2066-14 6.8056-14 5.6746-14 4.7556-14	3.3856-14 2.4496-14 1.7966-14 1.3336-14 1.3336-14	7.5546-15 5.7716-15 4.4436-15 3.4456-15 2.6876-15	2.108E-15 1.662E-15 1.317E-15 1.047E-15 8.364E-16	6.702E-16 5.389E-16 4.347E-16 3.518E-16 2.855E-16	2.3236-16 1.8966-16
22	TEMP K	355 562 722 850	954 1038 1108 1165 1213	1252 1285 1313 1356 1356	1372 1386 1398 1408 1417	1430 1440 1445 1453 1453	1463 1462 1464 1466 1466	1468 1469 1477 1477 1477	1471 1472 1472 1472 1472	1473
HOUR=	ALT	120 140 150	160 170 190 200	210 220 230 240 250	260 280 290 300	320 360 400 400	500, 500, 500, 500,	600 600 600 600 600 600 600 600 600 600	620 640 680 700	720 077 072

M-9-13

<u>Modal 10</u>

Properties of the Upper Atnosphere as Functions of Height and Local Time for a Lovel of

Prinare Migh Solar Activity

The properties of the upper atmosphere are tabulated as a function of local time (for every two hours of the day) and as a function of height in the range from 120 km to 800 km above the Harth's surface. The quantities listed are: temperature [$^{\circ}$ K], density (g cm⁻³), pressure (dynes cm⁻²), scale height (km), mean molecular weight and the number densities [cm⁻³] of M₂, C₂, O and He. The last column contains the number densities of argon (A) in the range from 120 km to 400 km and the number densities of hydrogen (H) in the range from 500 km to 800 km.

On top of each page the following quantities are listed: the local time in hours and the diurnal maximum and minimum value of the exospheric temperature for this particular model.

The model is valid for the earth's equatorial and temperate zones when the level of solar activity is represented by an average flux $\overline{F} = 275 \times 10^{-22}$ W/m² c/s of the solar radiation at a wavelength of 10.7 cm.

00000 00000 1:000 00000 1:000 00000 35535 888668 골공공영상 5 000000 000000 ~~~~~ 2,1536 2,1536 2,0556 2,0556 2,0556 2,0556 2,0556 2,0556 2,0556 1000/ (000/ 2.1046 2.0100 1.9996 1.9976 1.9976 1.5816 1.6576 1.6576 1.8336 1.9106 1.7676 и (н) /СкЗ 000000 30000 1001 N 9 9 9 9 9 9 9 9 9 9 333300 000000 000000 333339 333333 90000 2.400E 1.640E 2. 2. 000 2. 2. 00 1111E) /CII3 1.9355 1.9355 1.7505 1.5515 1.5555 1.4676 1.4126 1.3416 1.2746 1.2116 10 Mode] 2020 800000 \$2333 888888 3333333 23033 00000 666666 200020 99099 7.6005 3.1950 1.8820 2.2766 あるるんま うでいうです ういういう ういうこう 7,70% 6,50% 7,00% 7,00% 7,00% 8,10% 2.1445 1.7055 1.3615 1.3615 1.0075 8.7015 6.9468 6.9468 6.9968 6.9068 2.9268 2.9268 2.9268 2.3585 1.9065 1.5525 1.5525 1.0155 1.0155 8.2368 6.2368 5.4558 4.4478 3.6308 N(0) CCI3 900000 20000 000000 0000 NN 0000 30038 20030 202225 00000 00000 7.5005 2.1205 9.4455 5.1065 3.0708 1.9758 1.3318 9.6555 9.65555 H(02) /CH3 2.4526 2.4526 2.5556 2.33076 4.63306 2.6006 1.6016 1.0676 7.0676 7.0676 2.900E 1.901E 1.970E 2.995E 5.527E 3.6485 2.4135 1.6005 1.0645 7.0865 7.0865 N-030 1121 000000 000000 0: 330 0:000 20000 00000 000000 00000 00000 R (123) 7063 4.0008 1.2408 5.9628 3.4098 2 • 1538 1 • 4488 1 • 6178 7 • 6178 7 • 6178 5 • 6518 4, 1098 3, 1465 2, 4265 1, 1928 1, 4668 1.1745 9.321 7.4335 9.9506 4.1772 3,9645 2,6645 1,7925 1,2105 0,1975 5.567E 3.799E 2.587E 1.770E 1.214E 6,3445 5,7496 3,9696 2,7476 1,9056 1,9056 1.324E 9.220E 6.435E 4.500E 3.154E ° 101 101 11771 25.11 24.73 24.55 24.55 21.05 20.15 20.15 20.15 20.01 20.01 25.01 25.01 ****** ******* ***** 16.52 16.52 15.52 15.72 .5,52 .5,52 .5,60 .5,60 .4,60 .5,00 5.96 5.07 3.67 3.65 3.69 1413 ų, SCALE NY KR 24.9 50045 50045 50045 70.9 82.0 82.0 86.6 86.6 67.1 72.2 76.5 76.5 56.7 50.6 100.8 102.8 07.6 10.4 13.5 16.9 20.7 <u>.</u> 2.7226-02 1.4036-02 8.6666-03 6.1696-03 4.5325-03 3.4155-03 2.4155-03 2.455-03 2.455-03 2.455-03 2.455-03 2.455-03 2,0555-65 1,5245-65 1,551-65 8,8115-65 6,7645-95 5,2345-05 4,6725-05 3,1696-05 2,5116-05 2,5116-05 2,5116-05 PRESSULE DYREZCA2 1.5000-05 1.2020-05 1.0120-05 0.1490-05 0.1490-05 0.1490-05 0.1490-05 5, 3468-00 4, 3566-00 8, 5566-00 8, 5586-00 8, 4581-00 2, 4158-00 2, 4158-00 2.001E-05 1.655E-05 1.3936-06 1.17E-06 9.895E-06 ວ້ 200.4 2.4990 - 11 7.844 - 12 3.6916 - 12 2.2096 - 12 1.4206-12 9.1386-13 6.9900-13 5.1412-13 9.1412-13 3.9227-453 .: UCH511Y GNZCH3 1,0100135 8,3550-10 6,9276-10 5,7760-10 5,7760-10 5,7760-10 3, 4454 - 34 2, 4911 - 14 1, 6265 - 14 1, 3956+ 14 1, 0166+ 14 7, 6996-15 5, 8736-15 6, 5206-15 3, 5206-15 3, 5206-15 2, 7310-15 2.1426-15 1.6886-15 1.3366-15 1.3366-15 1.0636-15 1.0636-15 6.793E-16 5.460E-16 4.403E-16 3.561E-16 2.668E-16 2.350E-16 1.917E-16 1.5695-16 1.5695-16 1.267E-16 1.060E-16 1(14) л цеї К 355 258 729 857 969 1312 1312 1312 1573 1507 1507 1406 1417 85000 17000 17000 17000 1721 1721 1721 1721 6971 6975 775 775 HOUR-ALY RH 00000 22000 22000 120120 2000 2000 2000 2000 650 660 660 700 700 000 000 000 000 000 000 000

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1-12-2

	N(A) , ZCH3	4.5500 09 1.5500 09 4.0500 09 4.0500 09 4.0500 09	1.0536 08 6.1488 07 3.7798 07 2.4126 07 2.4126 07 1.5046 07	1.0628 07 7.2598 06 5.0158 06 3.5088 06 3.5088 06 2.4768 06	1.761E 05 L.261E 05 S.076E 05 S.076E 05 S.563E 05 4.7656 05	2.5378 05 1.3656 05 7.4158 06 4.0556 06 2.2306 04	N (II) /СНЗ 2.2095 03	2,1775 03 2,1775 03 2,11965 03 2,11966 03 2,0066 03 2,0066 03 2,0066 03	2.0265 03 2.0005 03 2.9726 03 1.9726 03 1.9766 03 1.9766 03	1.8538 03 1.8608 03 1.8638 03 1.8538 03 1.8196 03 1.7558 03
ol 10	n (HE) ZCN3	2.4006 07 1.6490 07 1.3266 U7 1.1399 07	1.0145 07 9.2226 06 8.5155 06 7.9555 06 7.9555 06	7.069E 06 6.716E 06 6.716E 06 6.131E 06 6.131E 06 5.079E 06	5.6495 06 5.4375 06 5.2395 06 5.0558 06 6.0018 06	4.5426 06 4.2746 06 4.0116 06 3.7656 06 3.7656 06 3.5468 06	3.3306 06 3.1455 06 2.9655 06 2.7976 06 2.7976 06 2.7976 06	2.4920 06 2.3540 06 2.3246 06 2.2246 06 2.1026 05 1.9086 05	1,8005 06 1,7795 06 1,6545 06 1,5955 06 1,5955 06	1.4316 06 1.3576 06 1.2866 06 1.2206 06 1.2206 06 1.1576 06
Nod	N(0) /CM3	7.600E 10 3.221E 10 1.901E 10 1.289E 10	9.433E 09 7.241E 09 5.741E 09 4.659E 05 2.847E 09	3.2186 09 2.7206 09 2.3186 09 1.9906 09 1.97156 09	1.4066 09 1.2926 09 1.1278 09 9.8556 09 0.6426 08	6,670E 08 5,150E 03 4,053E 03 3,176E 08 2,496E 08	1.9666 00 1.5536 06 1.2296 06 9.7398 07 7.7336 07	6.150E 07 4.695C 07 3.906E 07 3.121E 07 2.497E 07	2.0006 07 1.6045 07 1.2095 07 1.2095 07 1.0345 07 8.3446 06	6.727E 06 5.431E 06 4.389E 06 3.552E 06 2.878E 06
·	N (02) ZCN3	7.5006 10 2.1336 10 9.4006 09 5.1056 09	3.053809 1.951809 1.305809 9.022803	4.612E 08 3.3799 08 2.5795 08 1.8755 08 1.8755 08	1.0746 03 0.2016 07 6.2926 07 4.8466 07 3.7456 07	2.2566 07 1.3726 07 0.4018 06 5.1766 06 3.2056 06	1.9926 06 1.2446 06 7.7936 05 4.9046 05 3.0946 05	1.9588 05 1.2438 05 7.9108 04 5.0496 04 3.2328 04	2.0745 04 1.3354 04 8.6116 03 5.5706 03 3.6126 03	2.348E 03 1.530E 03 9.999E 02 6.549E 02 4.299E 02
	N(112) /CH3	6.0006 11 1.2566 11 5.9966 13 3.4176 10	2.146E 10 1.427E 10 1.003E 10 7.215E 09 5.309E 09	3.975E 09 3.018E 09 2.316E 09 1.793E 09 1.793E 09	1.0276 09 0.6566 08 6.6566 08 6.6566 08 5.4506 00 4.3466 00	2.7865 55 1.8005 08 1.1715 08 7.6615 07 5.0345 07	3.3195 07 2.1976 07 1.4596 07 9.7226 06 6.4955 06	4.3506 06 2.9226 06 1.9676 06 1.3286 06 U.9826 05	6.0915 05 4.1415 05 2.8216 05 1.9266 05 1.3186 05	- 9.0428 04 6.2158 04 4.2018 04 2.9568 04 2.9568 04
1413 ⁰ x	REAN NOL WT	27.01 26.41 25.92 25.92	25,08 24,69 24,31 25,94 25,94 23,57	23.21 22.86 22.51 22.17 21.65	21.52 21.52 20.59 20.59 20.31	19.76 19.26 16.80 10.38 18.00	17,65 17,65 17,65 17,66 16,53 16,59	16.37 16.37 15.96 15.96 15.55	15, 35 15, 11 15, 68 15, 68 15, 35	14.05 13.73 13.39 12.62 12.63
T(4) =	SCALE HT KII	11.2 18.8 24.5 29.3	80044 80044 80044	,	30550 30550 240 240 240 240 240 240 240 240 240 24	65.5 60.1 72.5 72.7	76°9 76°9 80°7 82°4 82°4	0.5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	96.4 96.4 98.5 100.8 108.8	196.1 109.2 112.6 116.5 120.7
2083 ⁰ K	PRESSURE DYNE/CH2	2.7226-02 1.3906-02 0.6036-03 6.0716-03	4.4126-03 3.3189-03 2.5509-03 2.0008-03 2.0008-03 2.0008-03	1,2056-03 1,0490-03 6,6120-04 7,1196-04 7,2196-04	4,9536-05 4,1656-04 3,5166-65 2,9626-65 2,5366-65	1.8596-04 1.3786-04 1.3786-04 1.0226-64 7.8076-64 7.8076-65 5.9546-65	4.5726-05 3.5376-05 2.7520-05 2.1540 05 1.6940-05	1,3390-05 1.0638-05 8.4738-05 6.7036-06 6.7040-05 5.4940-05	7. 5055-05 3.571C-05 2.9085-05 2.3795-05 2.3795-05	1.616E-06 1.332E-06 1.120E-06 9.407E-07 7.947E-07
T(14) = :	DERSTIY GAZGK3	2.4908-11 7.9003-12 3.0238-12 2.2158-12 2.2158-12	1.6196412 9.6856413 6.9000413 5.0667413 3.641412	2.9566-13 2.3106-13 1.0296-13 1.4646-13 1.1036-13	9.636E-14 7.904E-14 6.525E-14 5.418E+14 4.522E-14	3.1936-14 2.2926-14 1.6696-14 1.2306-14 9.1656-14	6.8936-15 6.2326-15 4.0036-15 3.0036-15 2.3906-15	1.863E-15 1.459E-15 1.1405-15 9.0746-16 7.1986-16	5.731E-16 4.578E-16 3.670E-16 2.950E-16 2.360E-16 2.380E-16	1,925E-16 1,562E-16 1,277E-16 1,277E-16 1,034E-16 1,034E-16
~:	темр К	355 562 715 84 0	\$38 1017 1003 1156 1161	1216 1275 1275 1275 1275	13 19 19 19 19 19 19 19 19 19 19 19 19 19	1303 1392 1392 1402 1407	4470 14400 44400 14400 14400 14400	1415 1416 1416 1417	1417 1418 1418 1418 1418 1418	1419 1419 1419 1419 1419
HOUR≕	ALT RH	120 130 140	1 60 1 75 1 80 2 80 2 80 2 80 2 80 2 80 2 80 2 80 2	210 220 250 250 250 250 250	200 270 290 300	320 350 360 400	4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5500 560 660 600 600 600 800 800 800 800 800 8	620 640 660 700 700	720 740 760 800

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	N(0) NCH3	7.6005 10 3.2476 10 1.9166 10 1.2976 10	9.464E 09 7.241E 09 5.7222 09 4.52222 09 3.3052 09			9.500 9.500 9.500 9.500 9.500 1.5000 1.5	7.4546 07 5.9246 07 4.7156 07 3.7586 07 2.9996 07 2.3976 07	1.918E 07 1.537E 07 1.234E 07 0.911E 06 7.973E 06	6.423E 06 5.180E 06 4.183E 06 4.183E 06 3.382E 06 2.737E 06
	N(CC) VCH3	7.5008 10 2.1456 10 9.5088 09 5.0908 09	3,0256 09 1,92726 09 1,2726 09 8,7756 09 8,7856 09		で 、 、 、 、 、 、 、 、 、 、 、 、 、	2.1215 07 1.2375 07 1.2375 07 1.2375 07 1.2395 05 2.9926 05 2.9926 05 1.1576 05 1.1576 05 1.2576 05 1.2576 05	2.864E 05 1.809E 05 1.146E 05 7.285E 05 7.285E 05 2.966E 04	1.900E 04 1.220E 04 7.053E 03 5.073E 03 5.073E 03 3.284E 03	2.1315 03 1.3155 03 1.3855 03 9.0395 03 9.0395 02 5.9095 02 3.8725 02
	N(NZ) /CH3	4.200E 11 1.2646 11 6.0178 10 3.4146 10	2,1355 10 1.4215 10 9,8645 09 7,0605 09 5,1715 09	00 2005 0 00 2005 0 00 2005 0 00 2005 0 00 2005 0 0 0000 0 0000000000	 4 5 5 4 4 4 5 5 5 4 5 5 5 5 5 5 5 6 5 5 5 5 7 5 7 5 7 5 <li< th=""><th>2.0500 2.0500 2.0500 2.0500 4.12006 4.12006 4.12006 3.1206 0.1 2.0632 0.1 2.0632 0.1 2.0632 0.1 2.0632 0.1 2.0632 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</th><th></th><th>5.644E 05 3.930E 05 2.605E 05 1.75E 05 1.213E 05</th><th>8.3095 04 5.7025 04 3.4215 04 2.7035 04 1.0575 04</th></li<>	2.0500 2.0500 2.0500 2.0500 4.12006 4.12006 4.12006 3.1206 0.1 2.0632 0.1 2.0632 0.1 2.0632 0.1 2.0632 0.1 2.0632 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		5.644E 05 3.930E 05 2.605E 05 1.75E 05 1.213E 05	8.3095 04 5.7025 04 3.4215 04 2.7035 04 1.0575 04
1413 ⁰ K	HEAN HOL HT	27.01 26.41 25.91 25.47	23.52 24.65 23.65 23.53 23.52 23.52	20000 2000 2000 2000 2000 2000 2000 20	200 200 200 200 200 200 200 200 200 200	119,59 119,59 118,33 128,33 124,62 114,61 12	100 100 100 100 100 100 100 100 100 100	15.29 14.800	113 113 113 113 113 113 113 113 113 113
= (4) ⊨	SCALE HT KH	11-2 26-2 26-2 26-2 26-2 26-2 26-2 26-2	5	44556 40960 40960	2000 2000 2000 2000 2000 2000 2000 200	600 100 100 100 100 100 100 100	85.7 87.3 87.3 90.7 92.4	94.9 96.9 98.9 98.9 100.8 4.9 8.9 8.9 8.9	106.2 109.3 112.8 116.8 121.2
2083 ⁰ K	PRESSURE DYNE/CM2	2.7226-02 1.3926-02 9.7226-03 5.9836-03	4,328E-03 3,242E-03 2,490E-03 1,949E-03 1,949E-03 1,549E-03	1.2458+03 1.0136-03 0.3026-04 6.8542-04 5.0376+04	4.7528-044 4.2028-044 3.3738-04 3.3738-04 2.9548-04 2.4388-04	17858-04 1.5236-04 9.9128-05 9.9128-05 7.4978-05 5.7178-05 5.7178-05 5.7178-05 5.7178-05 5.2666-05 2.6666-05 2.6666-05 2.6666-05	1.283E-05 1.018E+05 8.115E-06 6.495E-06 5.220E-06	4.213E-06 3.416E-06 2.781E-06 2.275E-06 1.870E-06	1.545E-06 1.283E-06 1.0725-06 9.003E-07 7.6095E-07
T(14) =	DENSITY GA/CH3	2.4936-11 7.9495-12 3.8395-12 2.2156-12	1.4125-12 9.5916-13 6.8116-13 4.9955-13 3.7555-13	2.8315-13 2.2455-13 1.7726-13 1.4168-13 1.426-13	9,2916-15 7,6136-15 6,2736-14 6,2736-14 4,3966-14	3.0678-14 2.2016-14 1.6926-14 1.1816-14 1.1816-14 1.3046-15 8.6296-15 3.8446+15 3.8446+15 3.98466+153.98466+15 3.98466+153.98466+15 3.98466+153.98466+15 3.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.98466+153.9846555555555555555555555555555555555555	1.7886-15 1.4006-15 1.1026-15 8.7026-16 8.7026-16 6.9006-16	5.491E-15 4.384E-10 3.512E-16 2.822E-16 2.275E-10	1.84JE-16 1.492E-16 1.214E-10 9.912E-17 8.119E-17
+	TEMP K	355 556 703 827	923 1002 1121 1151	12021 12022 12021 120 120		13379 13379 14402 14405 144005 14405 14405 14405 14405 14405 14405 14405 14405 14405 14400	141 141 141 1141 1141	1411 1412 1412 1412 1412	1412 1412 1413 1413
HOUR	AL T KM	120 150 150	1 60 1 70 1 90 1 90 1 90	N 0 4 0 9 N 0 4 0 4 N 0 4 0 4 0 4 N 0 4 0 4 0 4 0 N 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0	2222 2222 2222 2222 2222 222 222 222 2	90000 00000 NAA900 NAA90 COODO 00000	6 6 6 0 6 6 0 7 7 6 0 7 7 7 6 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	620 660 700 700	720 750 760 760 800

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	(A) CH3	006 09 576 09 446 38 146 08	226 08 986 07 946 07 796 07 906 07	786 06 116 06 226 06 166 95 536 06	856 06 1156 06 1226 05 386 05 206 05	(668 05 128 05 446 04 918 04 758 04	1(H) /C.43 71E_03	41E 03 12E 03 183E 03 155E 03 127E 03	000E 03 74E 03 74BE 03 19BE 03 19BE 03	3736 03 3496 03 3256 03 3026 03 3026 03
	žŇ	07 4 50 07 1 4 0 07 4 4 0	000 000 000 000 000 000 000 000 000 00	06 06 06 06 06 2.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06 1.2 06 1.2 05 8.8 8.8 05 4.7	000 000 000 000 000 00 00 00 00 00 00 0	005 006 006 2•1	06 06 06 06 2.0 0 0 2.0 0 0 5 0 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	06 06 06 1.9 06 1.9 0 0 0 1.8 0 0 0 1.8 0 0 0 1.8 0 0 0 0 1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06 06 06 1.88 06 1.88 1.88 1.88 1.88 06 1.88 06 1.48 06 1.48 06 1.48 06 1.48 06 1.48 06 1.48 06 1.48 06 1.48 06 06 1.48 06 06 1.48 06 06 06 06 06 06 06 06 06 06 06 06 06
lel 10	NCHE) /CM3	2.4006 1.6656 1.3436 1.1486	1.019E 9.232E 8.492E 7.896E 7.602E	6.9846 6.8236 6.3066 5.716 5.716	5.542E 5.331E 5.137E 4.957E 4.789E	44003 •4603 •6002	9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6	2.503E 2.369E 2.244E 2.126E 2.015E	1.910E 1.811E 1.718E 1.630E 1.547E	1.469E 1.395E 1.325E 1.260E
Mod	N (D) /CH3	7.6006 10 3.2656 10 1.9226 10 1.2956 10	9.4086 09 7.1676 09 5.6636 09 4.55516 09 3.7396 09	3.1166 09 2.6276 09 2.2356 09 1.9166 09 1.6536 09	1.4346 09 1.2496 09 1.0926 09 9.5796 08 8.4236 08	6.557E 09 5.136E 09 4.047E 08 3.201E 09 2.539E 05	2.0128 08 1.6048 08 1.2858 08 1.0298 08 3.2388 03	6.611E 07 5.313E 07 5.313E 07 4.275E 07 3.446E 07 2.780E 07	2.2466 07 1.8176 07 1.4716 07 1.1936 07 9.6886 05	7.875E 06 6.409E 06 5.222E 06 4.259E 06
	N(02) /CM3	7.500E 10 2.153E 10 9.500E 09 5.055E 09	2.9896 09 1.6916 09 1.2536 09 8.6186 08 6.0786 08	4.3765 08 3.2765 08 2.3775 08 1.7845 08 1.3515 08	1.030E 08 7.913E 07 6.109E 07 4.739E 07 3.690E 07	2.2506 07 1.3536 07 8.7236 05 5.4758 95 3.4558 06	2.1855 06 1.3915 06 6.3785 06 5.6865 05 5.6865 05 5.6865 05	2.3548 05 1.5208 05 9.8498 04 6.3976 04 4.1655 04	2.7196 04 1.7796 04 1.1676 04 1.1676 04 7.6766 03 5.0606 03	3.3445 03 2.2156 03 1.4706 03 9.7856 03 6.7255 03
	N (N2) /CH3	4.000E 11 1.269E 11 6.018E 10 3.396E 10	2.1136 13 1.4006 10 9.6956 09 6.9306 39 5.0776 09	3.791E 09 2.874E 09 2.207E 09 1.712E 09 1.339E 09	1.054E 09 3.355E 08 6.654E 08 5.321E 08 4.271E 08	2.7765 08 1.5256 03 1.2056 03 8.0175 07 5.3485 07	3.5318 07 2.4108 07 1.6278 07 1.1018 07 7.4748 06	5.086E 06 3.469E 06 2.372E 06 1.625E 06 1.116E 05	7.634E 05 5.300E 05 3.664E 05 2.539E 05 1.763E 05 1.763E 05	1.226E 05 8.5496 04 5.9726 04 4.181E 04 2.9331E 04
1413 ⁰ K	MEAN MOL MI	27.01 26.43 25.91 25.46	225 25 25 25 25 25 25 25 25 25 25 25 25	23.15 22.81 22.47 22.14 21.82 21.82	21.53 21.19 20.93 20.61 20.33	19.60 18.37 18.47 18.46 18.09	17,75 17,45 17,45 16,49 16,69	16.47 16.27 16.07 15.87 15.67	15.47 15.26 15.05 14.81 14.81	14.30 14.01 13.70 13.37
T (4) =	SCALE HT KM	11.2 18.5 24.0 28.8	44994 4494 4494 4494 4494 4494 4494 44	43.2 50.5 54.8 54.8 56.7	58.6 60.3 62.0 63.1 65.1	67.9 70.6 73.1 75.4	79.79 29.15 20.15 20.55	88.7 90.4 932.4 953.7	97.3 99.2 101.2 103.4 105.8	4.801 2.111 2.111 7.71 7.71
2083 ⁰ K	PRESSURE DYNE/CM2	2.722E-02 1.388E-02 8.663E-03 5.931E-03	4.2876-03 3.2146-03 2.4746-03 1.9426-03 1.9426-03	1.252E-03 1.022E-03 8.421E-04 6.992E-04 5.844E-04	4.913E-04 4.153E-04 3.526E-04 3.007E-04 2.574E-04	1.505E-04 1.427E-04 1.627E-04 3.2548-05 6.3558-05	4.9228-05 3.8419-05 3.0158-05 2.3798+05 2.3798+05	1.502E-05 1.201E-05 9.649E-06 1.780E-06 6.298E-06	5.1176-06 4.1756-06 3.4196-06 2.8126-06 2.3236-06	1.927E-06 1.606E-06 1.345E-06 1.132E-06 1.132E-06 9.579E-07
T(14) = 0	DENS I I Y GM/CM3	2.490E-11 7.984E-12 3.841E-12 2.205E-12	1.3986~12 9.4616-13 6.6986-13 4.9056-13 3.6876-13	2.8336-13 2.2196-13 1.7506-13 1.4026-13 1.1356-13	9.274E-14 7.635E-14 6.329E-14 5.278E-14 4.426E-14	3.1578-14 2.2906-14 1.6646-14 1.2546-14 1.2546-14	7.163E-15 5.488E-15 4.236E-15 3.291E-15 2.572E-15	2.021E-15 1.590E-15 1.266E-15 1.006E-15 8.058E-16	6.464E-16 5.201E-16 4.199E-16 3.399E-16 2.760E-16	2.≿⊹6E-16 1.836E-16 1.503E-16 1.235E-16 1.235E-16 1.017E-16
ه	TEMP K	. 355 552 703 824	923 1007 11377 1189	1232 1269 1301 1328	1373 1386 1403 1412 1422	1437 1468 1468 1461 1461	1481 1469 1472 1472	1472 1473 1473 1473 1473	1474 1474 1474 1474 1474	1474 1474 1474 1474
HOUR	ALT KM	120 140 150	160 190 200 200	210 220 250 250 250	260 270 280 290	00000000000000000000000000000000000000	4 4 4 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 0 5 6 0 6 0 0 6 0 0 6 0 0 6 0 0 6 0 0	620 640 680 100	723 740 780 800

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HDUR=	3	1 (14) = 1	2063 °K	T (4) =	1413 ⁰ K			Mode	01 IC	
ALY KE	TER: K	UENS LTY GNZCH3	PPESSURE DYDC/CN2	SCALE HT KH	NGAN NOL WT	N (112.) / C/13	N(02) / CN3	N(0) 70/3	и (нЕ) /СИЗ	NEA) Zonz
00000 00000 00000	888 888 898 898 898 898 898 898 898 898	2,4908~11 7.9885~12 3.6246~12 2.1055~32	2.72%:+02 1.3870+02 8.6608+03 5.9930+03	1100 100 100 100 100 100 100 100 100 10	27.01 26.40 25.91 29.45	4.000E 11 1.2695 11 5.9955 10 3.3665 10	7.5006 10 2.1528 10 9.4518 09 9.4518 09 9.6149 09	7,600E 10 3,2456 10 1,9146 10 1,2826 10	2.4002 07 1.6655 07 1.3355 07 1.1466 07	4,5005 09 1,0578 09 4,0208 00 4,0208 00
27000 27000	50468 50466 60466 60466	1. 	4, 2010 CB 3, 2000-00 2, 2010-00 2, 2010-00 2, 2000-00 2, 2000-00 2, 2000-00	90924 90924 90924 90924	25.03 25.03 25.67 25.67 25.03	2,0028 10 9,5555 00 6,5555 00 6,5558 00 6,5588 00 5,0558 00	2.9576 09 1.6558 09 1.25558 09 6.5768 09 6.5568 09	9,2518 09 7,5068 09 5,4008 09 5,4158 09 9,6288 09	1.000E 07 9.071E 00 8.302E 00 7.650E 00 7.175E 00	00000000000000000000000000000000000000
00000 67600 87600 8665 8665 8665	ଅନ୍ୟାର ଜୁନ୍ଦ୍ର ଜୁନ୍ଦ୍ର ଜୁନ୍ଦୁ ଜୁନ ଜୁନ୍ଦୁ ଜୁନ୍ଦୁ ଜୁନ୍ଦୁ ଜୁନ୍ଦୁ ଜୁନ ଜୁନ୍ଦୁ ଜୁନ ଜୁନ ଜୁନ ଜୁନ ଜୁନ ଜୁନ ଜୁନ ଜୁନ ଜୁନ ଜୁ	2. Clark 2. Clark 2. Clark 2. Clark 2. Clark 1. 700 1. 1726 1. 1726 1. 1726	1, 33557 1, 33557 2, 23567 2, 23567 7, 005957 7, 005957 0, 236670 7, 0059570 7, 0059570	5 2000 2000 2000 2000 2000 2000 2000	かかないよ の	3, 5016 09 2,9136 09 2,2555 09 1,7626 09 1,4176 09	4, 4378 60 3, 2928 60 2, 4618 60 2, 4618 60 1, 8948 60 1, 4628 60	3.0216 09 2.15536 09 2.1516 69 1.6896 09 1.6896 09	6.7495 05 6.2395 05 6.0795 05 5.7945 06 5.7945 06	1.000 7.1000 7.1000 7.1000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.00000 7.0000 7.0000 7.00000 7.000000 7.00000000
200 200 200 200 200 200 200 200 200 200	88400 88400 90400 90400 9040 9040 9040 9	9.6958-14 8.0958-14 6.7928-14 5.7428-14 5.8288-14	5.6500-05 4.8592-04 4.1926-04 3.6316-04 3.1566-04	0000 000 000 00 00 00 00 00 00 00 00 00	21-76 21-58 21-21 20-95 20-69	1.1358 00 9.1708 03 7.4465 00 6.0018 08 4.9076 03	1.1395 00 8.5426 07 7.0646 07 5.4156 07 5.4806 07	1.4266 09 1.25556 09 1.1066 09 9.8166 00 8.7276 00	5.2295 06 5.1365 06 5.2965 06 5.2015 06 4.6275 06	1.950 1.950 1.9000 1.9000 1.9000 1.9000 1.9000 1.9000 1.9000 1.9000 1.9000 1.90000 1.90000 1.90000 1.90000 1.90000000000
000000000 000000 000000000000000000000	1653 1653 1653 1677 1677	3.5526-14 2.6736-14 2.6736-14 1.5476-14 1.5476-14	2.4098-04 1.8608-05 1.7498-04 1.1398-04 1.1398-04	777 777 777 777 777 777 777 777 777 77	20.21 19.75 19.33 19.58 18.58	3.390E 08 2.331E 05 1.617E 08 1.130E 08 7.934E 07	2.091007 1.000007 1.200007 1.20000 5.52000 5.52000	6.954E 00 5.588E 00 4.5196 00 3.672E 00 2.996E 00	4.3478 05 4.0959 05 3.6765 05 3.6726 05 3.4546 05 3.4546 05	3.6033 05 2.1238 05 1.2558 05 7.6058 05 4.6058 04
・ 本 よ よ よ よ よ よ よ よ よ よ よ よ よ	6691 6691 6691	9.3230-15 7.3316-15 5.8055-15 4.6265-15	7.179E-05 5.754E-05 4.637E-05 3.754E-05 3.054E-05	8 6 6 6 6 6 9 4 6 6 6 6 9 6 7 8 6 9 6 7 8 6 9 6 7 8 9 6 7 8 9 7 8	18.25 17.95 17.65 17.65 17.85	5,5902 07 2,9592 07 2,8132 07 2,0055 07 1,4395 07	3.7088 06 2.5016 06 1.6945 06 1.1516 06 7.8406 05	2.4495 03 2.0095 03 1.6525 03 1.3615 03 1.3615 03	3.3106 06 3.1478 06 2.9958 66 2.0516 06 2.7162 06	ы (н) /стіз 2.0486 03
5550 5550 5550 5550 5550 5550 5550 555	1702 1703 1703 1705 1705	2.9868-15 2.4178-15 1.9658-15 1.6038-15 1.3138-15	2.4936-05 2.0446-05 1.6626-05 1.3086-05 1.1506-05	99.7 99.7 101.6 103.6 105.2 107.0	16.95 16.75 16.75 16.37 16.19	1.026E 07 7.370E 06 5.303E 06 3.825E 06 2.764E 06	5.357E 05 3.670E 05 2.521E 05 1.736E 05 1.736E 05 1.736E 05	9.276E 07 7.6575E 07 6.3559E 07 5.276E 07 4.382E 07	2.589E 06 2.469E 06 2.3555E 06 2.3555E 06 2.247E 06 2.1455 06	2.0235 03 1.9985 03 1.9745 03 1.9516 03 1.9236 03
6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1705 1705 1705 1705	1.0796-15 8.8926-16 7.3516-16 6.0936-16 5.3646-16	9.5516-06 7.9596-06 6.6536-06 5.5776-06 4.6906-06	108.8 110.6 112.5 114.4	16.02 15.85 15.68 15.50 15.32	2.0015 06 1.4528 06 1.0568 06 7.6888 05 5.6108 05	8.284E 04 5.743E 04 3.950E 04 2.778E 04 1.938E 04	3.644E 07 3.034E 07 2.528E 07 2.110E 07 1.762E 07	2.0485 06 1.5566 06 1.5566 06 1.8695 06 1.7076 06 1.7076 06	1.9065 03 1.8045 03 1.8045 03 1.8425 03 1.8415 03 1.8215 03
120 120 140 160 180 180	1707 1707 1707 1703 1703	4.2196-16 3.5233-16 2.5555-16 2.4765-16 2.4765-16 2.0806-16	3,9566+06 3,3676+06 2,8406+06 2,4196+06 2,4196+06 2,666+06	113.5 120.0 123.1 125.7 125.7	15-14 14-94 14-14 14-52 14-52	4.101E 05 3.003E 05 2.203E 05 1.619C 05 1.192E 05	1.3555 04 9.4955 03 6.6675 03 4.6905 03 3.3065 03 3.3065 03	1.4736 07 1.2336 07 1.0336 07 1.0336 07 8.6666 06 7.2758 05	1.632E 06 1.561E 06 1.494E 06 1.454E 06 1.459E 05 1.368E 05	1.8005 03 1.7805 03 1.7416 03 1.7416 03 1.7226 03

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Model 10	N(02) N(0) N(HE) N(A) ZCH3 ZCH3 ZCH3 ZCH3 ZCH3	7.500E 10 7.500E 10 2.400E 37 4.500E 2.141E 10 3.241E 10 1.656E 07 1.653E 9.300E 09 1.667E 10 1.322E 07 4.010E 4.955E 09 1.253E 10 1.120E 07 1.855E	2.934E 09 8.965E 09 9.014E 06 1.017E 1.870E 09 6.759E 09 9.014E 06 1.017E 1.256E 09 5.329E 09 8.035E 06 3.713E 8.621E 03 4.304E 09 7.428E 06 2.420E 6.3555E 09 6.936E 06 2.420E	4.733E 08 2.930EE 09 6.529E 06 1.14.4E 3.931E 00 2.547E 09 6.1859 06 8.171E 2.753E 05 2.195E 09 5.059E 05 5.954E 2.145E 05 1.910E 09 5.404E 06 4.374E 2.145E 08 1.617E 09 5.404E 06 3.267E	1.342E 08 1.470E 09 5.201E 06 2.46%E 1.075E 08 1.312E 09 5.0172 06 1.875E 8.655E 07 1.16%E 09 4.850E 06 1.457E 7.015E 07 1.046E 09 4.697E 06 1.4637E 5.710E 07 9.385E 08 4.555E 05 8.597E	3. 827E 07 7.619E 08 4.298E 06 5.238E 2.596E 07 6.237E 08 4.071E 06 3.237E 1.777E 07 5.138E 08 3.066E 06 2.032E 1.226E 07 4.253E 03 3.679E 06 1.276E 1.226E 06 3.534E 08 3.506E 06 8.001E 8.505E 06 3.534E 08 3.506E 06 8.001E	5.922E 0.6 2.943E 0.8 3.345E 0.6 N (H) 4.145E 3.6 2.459E 0.8 3.195E 0.6 N (H) 2.914E 0.6 2.059E 0.3 3.054E 0.6 /CM3 2.914E 0.6 2.059E 0.3 3.054E 0.6 /CM3 2.054E 0.6 1.727E 0.8 2.921E 0.6 1.969E 1.452E 0.6 1.451E 0.8 2.795E 0.5 1.969E	1.029E 06 1.221E 08 2.676E 06 1.947E 7.316E 05 1.029E 08 2.563E 06 1.926E 5.212E 05 8.604E 07 2.456E 06 1.926E 3.721E 05 7.336E 07 2.356E 06 1.864E 2.663E 05 7.336E 07 2.357E 06 1.864E	1.910E 05 5.253E 07 2.164E 06 1.844E 1.372E 05 4.4522E 07 2.076E 06 1.825E 9.983E 04 3.778E 07 1.952E 06 1.825E 7.131E 04 3.778E 07 1.952E 06 1.805E 7.131E 04 3.778E 07 1.632E 06 1.767E
N (C2) N	/CI13	4.0006 11 7.5 1.2626 11 2.1 5.9376 10 9.3 3.3236 10 4.9	2.0616 10 2.9 1.3706 10 1.8 9.5786 09 1.2 6.9555 09 8.6 5.2005 09 6.3	3.9796 09 4.7 3.1016 09 4.7 2.4536 09 2.7 1.9646 09 2.1 1.5096 09 1.6	1.296E 09 1.3 1.064E 09 1.0 8.794E 08 8.6 7.303E 08 7.0 6.090E 05 5.7	6.281E 08 3.7 3.043E 08 3.7 3.043E 08 2.5 2.192E 08 1.7 1.574E 08 1.7 1.143E 08 8.5	6.3185 07 5.5 6.00865 07 4.1 4.4676 07 2.5 3.2885 07 2.6 2.4276 07 1.4	1.795E 07 1.0 1.331E 07 7.3 9.890E 06 5.2 7.364E 06 3.7 5.493E 06 2.6	4.105E 06 1.5 3.074E 06 1.5 2.3365 06 9.6 1.732E 06 7.1 1.304E 06 7.1
1413 K	REAN MOL NT	27.01 26.61 25.92 25.49	25.10 24.75 24.59 24.07 23.16	23.45 23.16 22.68 22.61 22.34	22.08 21.82 21.57 21.33 21.09	20.64 20.21 19.60 19.42 19.42	18.73 18.42 18.13 17.87 17.62	17.39 17.18 16.98 16.79 16.62	16.45 16.29 16.13 15.97 15.82
L (4) =	SCALE HT KA	11.2 18.6 24.7 30.2	84445 8444 844 844 844 844 844 844 844 8	555.0 555.0 55.9 57.9 57.9 57.9	69.9 72.1 76.3 76.3 78.2	81.7 85.0 98.0 90.9 93.6	96.2 98.7 101.1 103.3 105.5	107.7 109.7 111.7 113.7 113.6	117.5 119.4 121.3 123.2 123.2
2083 ⁰ K	PRESSURE DYNE/CN2	2.7226-02 1.3936-02 8.7616-03 6.0776-03	4.4785-03 3.4326-03 2.7%06-03 2.1%76-03 2.1%76-03 2.1%76-03	1.4928-03 1.2548-03 1.0548-03 9.00548-05 7.8148-04	6.755E-04 5.869E-04 5.120E-04 4.432E-04 3.938E-04	3.067E-04 2.413E-04 1.915E-04 1.531E-04 1.233E-04	9.976E-05 8.126E-05 6.651E-05 5.469E-05 4.516E-05	3.744E-05 3.114E-05 2.600E-05 2.177E-05 1.829E-05	1.540E-05 1.301E-05 1.102E-05 9.356E-05 7.965E-06
T(1.4) = 2	DENS I I Y Gr/Cr3	2.490E-11 7.9376-12 3.7876-12 2.1546-12	1.360E+12 9.2070+13 6.5630+13 4.853E+13 3.713E+13	2.9036-13 2.3156-13 1.8746-13 1.5386-13 1.2766-13	1.069E-13 9.0206-14 7.667E-14 6.556E-14 5.637E-14	4.2246-14 3.2146-14 2.4776-14 1.9306-14 1.5186-14	L.202E-14 9.603E-15 7.721E-15 6.245E-15 5.079E-15	4.151E-15 3.408E-15 2.810E-15 2.326E-15 1.932E-15	1.611E-15 1.346E-15 1.129E-15 9.492E-16 8.000E-16
10	T E NP K	355 557 865	999 1109 1211 1211 1251	1653 1513 1562 1667 1665	1679 1708 1733 1754 1754	1802 1824 1851 1853 1853	1869 1874 1874 1879 1882 1884	1686 1588 1589 1589 1681	1892 1893 1893 1894 1894
#00Uft#	ALT KH	150 150 150	160 150 190 200	210 220 230 250	260 250 290 290	320 340 360 400 400	4400 460 500 500	5500 560 560 560 560	620 660 660 700

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-	NCA) Zone	\$.5 008 05 1.0448 05 3.5455 5 3.5455 5 5.5455 5 5.5455 5 5.555 5 5.5555 5 5.5555 5 5.5555 5 5.5555 5 5.5555 5 5.55	2.0076 076 2.2255 075 2.52555 075 2.52555 075 2.52555 075 2.52555 075 2.52555 075		2000 2000 2000 2000 2000 2000 2000 200	6.7918 05 4.3928 05 2.7358 05 2.7558 05 1.7558 05 1.27558 05	H(E) /C:13 1.921E 03	1.9016 03 1.8035 03 1.6615 03 1.6615 03 1.6615 03 1.6215 03 1.6285 03	1.8046 03 1.7876 03 1.7695 03 1.7526 03 1.7556 03	1.718E 03 1.702E 03 1.656E 03 1.655E 03 1.655E 03 1.655E 03
1 10	NCHET ZCH3	2.4006 07 1.6405 07 1.3012 07 1.0976 07	2, 5905 00 2, 5905 00 7, 6446 00 7, 2058 00 7, 2058 00 7, 2058 00 7, 2058 00	6. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	5. 1520 00 4. 9140 00 4. 6998 00 4. 6898 00 4. 5898 00 4. 5339 06	4.2876 05 4.0225 05 3.0722 05 3.6526 05 3.6526 05 3.5556 05	3.2726 06 3.2276 06 3.0526 06 2.9646 06 2.9646 06	2.7295 06 2.6205 05 2.5165 05 2.4185 06 2.4185 06 2.4185 06	2.2355 06 2.1495 06 2.0685 06 1.9505 06 1.9155 06	1. 844E 06 1. 776E 06 1. 711E 06 1. 711E 06 1. 643E 06 1. 589E 06
Mod	N (0) / CM3	7.6005 10 3.1545 10 1.8495 10 1.8495 10	0.7976 09 6.7745 09 5.2745 69 6.2985 69 5.5885 69 3.5666 69	3.0176 09 2.5003 69 2.2556 09 1.9555 09 1.7398 09	1.5305 69 - 1.3725.09 1.2292 69 1.1055 09 9.9645 08	0.1696 08 6.7526 08 6.6166 03 6.6166 03 6.6936 03 3.9306 08	3.3136 03 2.7555 08 2.3565 08 2.0036 08 1.7016 08	1.4466 03 1.2316 08 1.6496 08 5.9586 07 7.6566 07	6.550E 07 5.609E 07 4.809E 07 4.127E 07 3.545E 07	3.048E 07 2.623E 07 2.260E 07 2.260E 07 1.948E 07 1.681E 07
	11(02) 7013	7.500E 10 2.120E 10 9.206E 09 4.944E 09	2.9526 09 1.5066 09 1.3016 09 1.3016 09 9.2492 00 0.2492 00	5,1006 00 3,5055 00 6,0025 00 2,3055 00 2,3055 00 2,3055 00 2,9105 00	1.5356 08 1.2426 06 1.0125 00 0.2628 07 6.8118 67	4.6588 07 3.2246 07 2.2537 07 1.5966 07 1.1236 07	7.9008 05 5.7038 05 4.0918 05 2.9456 06 2.9456 06 2.1266 06	1.5396 06 1.1176 06 8.1276 05 5.9266 05 4.3316 05	3.172E 05 2.328E 05 1.712E 05 1.261E 05 9.309E 04	6.8945 04 5.1005 04 3.7856 04 2.8145 04 2.9965 04
	n (n 2) Z C H 3	4.000E 11 1.2466 11 5.6636 10 3.2936 10	2.059E 10 1.305E 10 5.735E 10 7.2002 09 7.2002 09 5.450E 09	4.2196 09 3.3396 09 2.1515 09 2.1515 09 1.7578 09	1.4476 09 1.2603 09 1.0022 09 8.3866 03 7.0576 03	5.0496 03 3.6596 03 2.6656 03 1.9566 08 1.9566 08 1.4466 08	1.072E 03 7.952E 07 5.956E 07 4.472E J7 3.361E 07	2.5335 07 1.91355 07 1.4476 07 1.4476 07 1.0985 07 8.341E 05	6.3498 06 4.8428 06 3.6998 06 2.8318 06 2.8318 06 2.1708 05	1.666E 06 1.281E 06 9.867E 05 7.611E 05 5.8808 05
1413 ⁰ K	NGL UT	27.01 26.01 25.94 25.94	25.15 24.01 24.01 24.49 24.19 24.09	222 222 222 222 222 222 222 222 222 22	22.31 22.07 21.03 21.50 21.37	20.52 20.52 20.12 19.75 19.35	19,06 18,75 18,46 18,19 17,94	17.70 17.58 17.28 17.28 17.09 16.90	16.73 16.57 16.41 16.26 16.12	15.97 15.83 15.58 15.39
T (4) =	HI KH SCALE	11 • 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	でき 3 S ま で S S S S S S S S S S S S S S S S S S S	2000 2000 2000 2000 2000 2000 2000 200	73.1 75.5 77.6 77.6 81.6	800 80 80 80 80 80 80 80 80 80 80 80 80	100.6 105.2 105.7 108.2 110.6	112.9 115.1 117.2 121.4 121.4	123.5 1225.5 1229.5 131.3	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2083 ⁰ K	PRESSURE DYREZCH2	2.7226-02 1.4026-02 6.9126-03 6.2116-03	4, 6716-03 3, 6376-03 2, 6076-03 2, 6076-03 2, 5076-03 2, 5076-03 1, 5576-03	1, (), (), (), (), (), (), (), (7, 7058-04 6, 7925-04 5, 5025-04 5, 5025-04 5, 5025-04	3.6175-04 2.8755-04 2.3046-04 1.5146-04 1.5146-04	1.2346+04 1.0146+04 8.3755+65 6.9476+05 6.9476+05 5.7866+05	4, 8986-05 4, 0598-05 8, 4176-05 8, 4176-05 2, 4446-05 2, 4446-05	2.0765-05 1.7676-05 1.5595-05 1.2916-05 1.1076-05	9.5218-06 8.2042-06 7.0058-06 6.1325-06 5.3108-06
T(14) -	DEKSTIY GNZCM3	2.4936-11 7.8491-12 3.7361-12 2.1326-12	1, 35550-12 0, 26651-12 6, 6735-12 4, 9975-13 3, 6565-13 3, 6565-13	3.010000 2.400000 1.400000 1.400000 1.400000 1.400000 1.400000 1.400000 1.400000 1.400000 1.400000 1.400000 1.40000000000	1.1655-13 9.5026-14 0.4706-14 7.2855-14 6.3606-14	4.7736-14 3.6695-14 2.8556-14 2.2456-14 1.7816-14	1.4232-14 1.1465-14 9.2916-15 7.5765-15 6.2116-15	5.1176-15 4.2356-15 3.5206-15 2.9376-15 2.9376-15 2.4596-15	2.0666-15 1.7416-15 1.4726-15 1.2486-15 1.2486-15 1.0606-15	9.0296-16 7.7066-16 6.5946-16 5.6536-16 4.8556-16
12	1 LER K	905 905 905 905	1063 11268 1278 1278 1278	100 100 100 100 100 100 100 100 100 100	1220 1222 1222 1222 1222	1909 1934 1953 1963	1988 1985 2001 2005 2015	2013 2015 2017 2019 2023	2022 2023 2024 2024 2024 2025	2026 2026 2025 2025 2021 2021
#00R=	AL T KA	120 130 150	160 130 190 200	2000 2000 2000 2000 2000	260 270 230 250 300	320 340 400 400	4 4 4 4 9 0 4 4 4 9 0 0 0 0 0	520 550 560 600	620 640 680 700	720 740 780 800

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1.1.4

0000 100000 90000 00000 00000 $\frac{1}{2} \frac{1}{2} \frac{1}$ S 50000 1.0626 6.3976 6.7496 2.7496 1.9096 3.2165 2.4586 1.9385 1.5195 1.1966 7.520E 4.7945 3.091E 2.0105 1.3105 1.883E 1.862E 1.862E 1.863E 1.825E 1.805E 1.704E 1.683E 1.672E 1.657E 1.657E N (II) /CM3 1.753E 1.770E 1.753E 1.753E 1.755E NLA) /CH3 (1) (0) (0) (0) 1.903E 4.5003 1.0360 3.5930 1.9278 **333**33 999999 000000 000000 1000 4.2985 4.0005 3.8825 3.7026 3.5376 5.1636 4.9886 4.8206 4.6816 4.5816 NCHE) /CH3 2,400E 1,6256 1,286E 1,085E 9.5068 8.5468 7.8216 7.2536 6.7958 6.413E 6.091E 5.014E 5.571E 5.3566 3.382E 3.239E 3.104E 2.977E 2.857E 2.7445 2.6365 2.5345 2.5345 2.347 2.347 2.2566 2.1716 2.0916 2.0146 1.9406 1.870E 1.803E 1.738E 1.676E 1.617E Model 10 0100 50050 60666 60000 20000 100100 8.7578 6.6848 5.0048 4.3026 3.6168 3.6168 3.069E 2.640E 2.295E 2.012E 1.777E 1.5795 1.4106 1.2666 1.1386 1.0276. 8.433E 6.981E 5.816E 4.870E 4.095E 3.4536 2.9216 2.4776 2.4776 2.1066 1.7936 1.529E 1.306E 1.110E 9.574E 8.212E 7.052E 6.062E 5.217E 4.494E 3.876E 3.3456 2.39906 2.5006 2.1636 1.8766 7.600E 3.154E 1.823E 1.212E N10) /CH3 00000 000000 00000 100000 3000 100 100 100 100 00000 00000 00000 5.0409 3.5049 2.4598 1.7408 1.2388 7.599E 2.100E 9.255E 4.967E 2.9956 1.9516 1.3426 9.6106 7.0926 5.3575 6.1236 3.221E 2.5476 2.0350 1.6395 1.3305 1.0055 8.9045 7.3386 8,8505 6,3636 4,5946 3,3286 3,4196 2,4196 1.764E 1.290E 9.452E 6.945E 5.114E 3.774E 2.792E 2.069E 1.536E 1.143E 8.519E 6.361E 4.758E 3.566E 2.677E N (02) / C N3 1101 60 200 8 3 8 8 8 8 9 9 9 9 8 000 000 000 000 000 00 70 70 70 70 20 27 20 27 20 20 20 4.0006 1.2356 5.8246 3.2976 2.0796 1.4096 1.6056 7.5306 5.6536 4.3968 3.4788 2.7908 2.2668 1.8548 1.531E 1.272E 1.0638 8.9203 7.5203 5.3996 3.9206 2.8726 2.1166 1.5726 1.170E 8.763E 6.585E 4.964E 3.753E 2.8458 2.1628 1.6478 1.2578 9.6168 7.3708 5.6588 4.3528 3.3528 3.3538 2.5888 2.6016 1.5496 1.2026 9.3326 7.2596 NCN2) /CN3 °× NEAN NOL ET 22.41 22.17 21.94 21.71 21.48 21.05 20.63 20.24 19.87 19.51 25.19 24.86 24.55 24.25 23.95 23.69 23.42 23.16 23.16 23.16 22.65 9.18 6.87 18.58 18.58 18.30 6.84 6.68 6.52 6.37 16.22 27.01 26.42 25.95 25.55 17.81 17.59 17.39 17.19 6.08 5.94 5.60 5.51 1413 а 11.2 19.3 26.0 32.1 37.8 43.0 55.9 559.4 62.4 65.8 71.2 73.7 76.0 80.5 82.5 86.1 89.7 93.0 99.1 102.0 104.8 107.4 116.0 114.9 117.2 119.5 121.7 121.8 125.9 128.0 130.0 132.0 134.0 136.0 136.1 140.1 142.2 142.2 SCALE HT KM (4) 2,7226-02 1.4136-02 9.0486-03 6.4096-03 4.8136-03 3.7576-03 3.0136-03 2.4556-03 2.4556-03 1.7210-03 1.4526-03 1.2516-03 1.2516-03 1.0766-03 9.3436-04 8.1395-04 7.1225-04 6.2565-04 5.5156-04 4.8775-04 3.847E-04 3.054E-04 2.455E-04 1.992E-04 1.623E-04 1.329E-04 1.095E-04 9.073E-05 7.549E-05 6.307E-05 5.290E-05 4.452E-05 3.760E-05 3.185E-05 2.706E-05 2.706E-05 2.3066-05 1.9706-05 1.6876-05 1.6486-05 1.4486-05 1.074E-05 9.285E-06 8.041E-06 6.979E-06 PRESSURE DYNE/CM2 ి 2083 7.4958-11 7.7658-12 3.7115-12 2.1328-12 1.366-12 9.4072-13 6.8206-13 5.1356-13 3.9796-13 3.1546-13 2.5456-13 2.0836-13 1.7276-13 1.4466-13 1.221E-13 1.0396-13 0.891E-14 7.656E-14 6.625E-14 5.0266-14 3.8696-14 3.0158-14 2.3756-14 1.88756-14 1.511E-14 1.219E-14 9.906E-15 8.097E-15 6.654E-15 5.497E-15 4.561E-15 3.801E-15 3.180E-15 2.671E-15 2.2516-15 1.9026-15 1.6136-15 1.3716-15 1.1696-15 9.984E-16 8.553E-16 7.338E-16 6.310E-16 5.437E-16 đ DENS I TY GM/CM3 1.(14) 2062 2065 2069 2071 2073 2075 2077 2078 2073 2083 1555 1618 1672 1722 1761 1797 1829 1856 1861 1902 1905 1987 2005 2019 2033 2039 2045 2053 2053 2081 2082 2082 2083 2083 2083 K K 1068 1195 1205 1205 1938 355 577 761 926 ±00R= 2200 5500 5600 5600 5600 740 20 20 50 23

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	iel 10	N (NE) ZCH3	2.4005 07 1.6166 07 1.2018 07 1.2018 07 1.0055 07	40 8740 9 40 8440 4 40 8440 4 40 8040 4 40 8040 4 4 40 8040 4 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	、 、 、 、 、 、 、 、 、 、 、 、 、 、	5. 2000 5.00 5.00 5.00 5.00 5.00 5.00 5.00	4.3156 05 4.0996 05 3.0005 05 3.7005 05 3.7005 05 3.7005 05	3.3705 06 3.2325 06 3.0955 06 2.9675 05 2.9675 06 2.8465 06	2. 731E 06 2.623E 06 2.520E 06 2.522E 06 2.329E 06	2,241E 06 2,1545 05 2,075E 05 1,995E 06 1,925E 06	1.8545 06 1.7875 06 1.7236 06 1.6615 06 1.6625 06
	Mod	и(0) ZGH3	7.6005 10 3.1306 10 1.8176 10 1.8176 10	C. 8348 09 C. 7700 09 S. 7700 09 S. 7700 09 S. 7700 09 S. 6728 09 S. 6728 09	8.1145 02 2.6755 02 2.9276 02 2.93276 02 2.9358 03 2.9358 03 2.9358 03	1.5096 09 1.6166 09 1.86166 09 1.1366 09 1.0296 09	8.3595 00 6.9215 03 6.7495 03 6.7495 03 4.7495 03 4.0246 03	3.304E G0 2.056E G0 2.417E 00 2.451E 00 2.051E 08 1.743E 00	1.4346 08 1.2455 09 1.2316 03 9.2516 07 7.9245 07	6.7966 07 5.8356 07 5.0165 07 70 3161 07 3.7186 07	3.206E 07 2.767E 07 2.390G 07 2.067E 07 1.789E 07
		N(02) /CH3	7.5000 10 2.6000 10 5.2000 09	3.0408 09 1.90458 09 1.3446 09 9.7058 08 7.2088 08	5,4278 09 4,1648 09 4,1648 00 3,2428 00 2,5548 00 2,0388 00	1.6315 00 1.3155 05 1.3755 05 1.0725 05 5.7695 07 7.2035 07	4.9195 07 3.3976 07 2.3716 07 1.6595 07 1.1026 07	8.412E U6 6.034E U5 4.3331E 05 3.129E 05 2.267E 06	1.640E 06 1.201E 06 8.791E 05 6.435E 05 4.727E 05	3.490E 05 2.568E 05 1.899E 05 1.407E 05 1.045E 05	7.770E 04 5.750E 04 4.323E 04 3.233E 04 2.4225 04
		n182) 7083	4,0000 11 1,2280 11 5,6290 10 3,3230 10	2.1076 10 1.4322 10 1.6226 10 7.5538 09 5.7428 09	6.4556 09 3.5168 09 2.6126 09 2.6126 09 2.7768 09 1.6578 09	1.5208 09 1.2266 09 1.0545 09 8.6196 09 7.4120 08	5.2916 08 3.8220 03 2.7646 08 2.0446 08 1.5116 08	1.121E 08 6.363E 07 6.263E 07 4.705E 07 3.549E 07	2.683E 07 2.034E U7 1.546E 07 1.177E 07 8.984E 06	6.871E 05 5.264E 06 4.041E 05 3.108E 05 2.394E 06	1.840E 06 1.426E 05 1.106E 05 8.572E 05 6.657E 05
	1413 ⁰ K	NÉAN Mol VI	27.01 26.42 25.55	25, 21 26, 67 26, 57 26, 75 28, 25 29, 25 29, 25	23,73 23,73 23,14 22,14 22,14 22,16 22,14 22,63 22,63 22,63 22,63	22.36 22.14 21.67 21.67 21.46	21.00 20.53 20.19 19.61 19.45	19.12 16.01 16.52 18.25 18.25	17.76 17.54 17.34 17.34 17.14	16.79 16.63 16.53 16.32 16.18	16.03 15.89 15.75 15.45
	. 1 . (4) =	UN TH SCALE	11.2 19.5 20.5 30.0 30.0 20.0	84455 1445 1445 1445 1445 1445 1445 1445	2002 2002 2002 2002 2002 2002 2002 200	72.5 77.0 77.1 79.2 81.2	8888 8888 9888 9888 9888 9888 9888 988	101.3 104.1 105.5 105.5 111.9	114.3 116.6 118.6 121.9 121.2 123.6 123.6	1255 1275 1229 1229 1229 1220 1220 1220 1220 1220	50000 5000000
	1083 ^O K	PRC\$SURE DYACZICK2	2.7226-02 1.4359-02 9.1284-03 6.400(-03	4.8500-63 3.4000-63 6.4000-63 8.4000-63 8.4000-63 8.4000-63 8.4000-63	1.71703 1.0-09-03 1.2016-03 1.017-03 1.01700 0.2021-00	6.0150-00 6.000-00 6.1300-00 4.100-00 4.100-00 4.100-00 4.100-00 4.100-00 4.100-00 4.100-00 4.100-00 4.00-000 4.00-0	3.7486-04 2.9778-04 2.3866-04 1.9276-04 1.5666-04	1.281E-04 1.0546-04 8.7226-05 7.2496-05 6.0506-05	5.0698+05 4.2631+05 3.5976-05 3.0458-05 2.5058-05	2.2016-05 1.8796-05 1.6056-05 1.3796-05 1.1666-05	1.0226-05 0.8596-05 7.6456-06 6.6306-06 5.7646-05
	T(14) = 2	DERSTIY Ch/Ch3	2.4905-11 7.7196-12 3.7106-12 2.1486-12		9, 1920-19 2, 520-19 2, 1020-19 1, 7370-19 1, 6910-13	1.2226-12 1.0346-12 0.6516-13 0.6516-14 7.6526-14	4.9578-14 3.6016-14 2.9526-14 2.3185-14 1.8353-14	1.4678-14 1.1826-14 9.5846-15 7.8216-15 6.4196-15	5.2956+15 4.3896+15 3.6546-15 3.0556-15 2.5636-15	2.1586-15 1.8226-15 1.5446-15 1.3128-15	9.5388-16 9.5388-16 8.1628-16 6.9998-16 6.0158-16 5.1798-16
	16	TC722 K	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	50000 00000 00000 00000 00000 00000 00000	10000 1000 1000 1000 1000	1755 1755 1851 1851	1910 1930 1931 1931 1931	2003 2019 2027 2035 2045	2049 2049 2059 2059	2063 2063 2063 2063	2067 2067 2068 2068 2068
	HC:JR	1	000000000000000000000000000000000000000	100 100 100 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2200 2200 2200 2200 2200 2200	88884 1990 1990 1990 1990 1990 1990 1990 199	444 000000 000000	9 9 9 9 9 4 9 6 9 9 6 0 0 0 0 0 0	6650 6650 6650 6650 6650 6650 6650 6650	720 720 780 780 780

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