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48-Inch Lidar Aerosol Measurements Taken at the Langley Research Center

May 1974 to December 1987

W. H. Fuller, Jr., M. T. Osborn, and W. H. Hunt

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48-Inch Lidar Aerosol Measurements Taken at the Langley Research Center

May 1974 to December 1987

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Scientific and Technical Information Division

#### Preface

This report summarizes the measurements obtained using the ground-based 48-inch lidar system at the Langley Research Center between 1974 and 1987. The data set, taken at a wavelength of 0.6943  $\mu$ m, provides a long-term history of the stratospheric and upper tropospheric aerosols at a fixed midlatitude location. It is anticipated that future reports describing the 48-inch lidar measurements will be published biennially.

Plots and tables of peak backscatter mixing ratio and integrated backscatter versus time for the entire 14-year period are presented and highlight the influence of several major volcanic eruptions. In addition, scattering-ratio profiles from June 1982 to December 1987 have been included, along with tables containing numerical values of the backscattering ratio and backscattering function. Although no attempt has been made to provide any scientific analysis of the data, this report is intended to present the measurements in a ready-to-use format for further scientific applications. The authors recognize other members of the lidar team under the direction of M. P. McCormick including B. R. Rouse, B. D. Poole, Jr., and O. Youngbluth of the NASA Langley Research Center and F. C. Diehl of Wyle Laboratories, whose dedicated efforts provided these data. The authors also thank L. R. Poole, G. S. Kent, and L. R. McMaster for reviewing this report and providing many helpful suggestions.

# Contents

. 2

Preface	•	•	•	•	•	•	iii
Summary	•	•	•	•	•	•	1
Introduction	•	•	•	•	•	•	1
48-Inch Lidar System	•	•	•	•	•	•	1
Lidar Profiles	•	•	•	•	•	•	1
Error Analysis	•	•	•	•	•	•	2
Integrated Backscatter	•	•	•	•	•	•	2
Long-Term Record	•	•	•	•	•	•	3
Concluding Remarks	•	•	•	•	•	•	3
Table: 1. Summary of Lidar Measurements Taken May 1974 to December 1987	•	•	•	•	•	•	4
Figures:							7
1. Peak backscatter mixing ratio versus time	•	•	•	•	•	•	8
Appendix A—Lidar Scattering-Ratio Profiles	•		•	•	•	•	9
Appendix B-Tables of Scattering Ratio and Scattering Function Versus A	Alti	tuc	le				
for Each Profile	•	•	•	•	•	•	39
References			•	•		•	97

#### Summary

This report presents lidar data taken between 1974 and 1987 using a ground-based 48-inch lidar system located at the NASA Langley Research Center in Hampton, Virginia. Two hundred and thirty-six lidar measurements were obtained during this time period. Plots of peak backscatter mixing ratio and integrated backscatter versus time are presented for the entire measurement sequence. The plots highlight the influence of several major volcanic eruptions on the long-term stratospheric aerosol layer. In particular, the eruptions of El Chichon in late March-early April 1982 produced a massive aerosol laver. Aerosol enhancement from El Chichon reached Hampton, Virginia, by May 1982 with a scattering ratio of approximately 50 detected on July 1, 1982. Maximum aerosol loading, as measured by integrated aerosol backscatter, occurred between January and March 1983. Peak optical depth at a wavelength of 0.6943  $\mu m$  was then calculated to be approximately 0.13. In addition, scattering-ratio profiles from June 1982 to December 1987, along with tables containing numerical values of the backscatter ratio and backscattering function versus altitude, have been included to describe further the stratospheric and upper tropospheric aerosol layers. A brief discussion of lidar-error analysis is included. No attempt has been made in this report to give any detailed explanations or interpretations of the data. The intent of the report is to provide, in a ready-to-use format, a 14-year summary of lidar observations at a fixed midlatitude location to be used for further scientific studies.

### Introduction

Routine ground-based lidar measurements have been taken at the Langley Research Center, Hampton, Virginia (37.1°N, 76.3°W), since May 1974. These lidar measurements provide highresolution vertical profiles of the stratospheric and upper tropospheric aerosols. The lidar system, often referred to as the 48-inch lidar system because of its 48-in. telescope, has evolved over the years and provides a valuable long-term history of the midlatitude stratospheric aerosol. Characteristics of the current system are described in this report. Data from this system have been used in a number of studies of the stratospheric aerosol layer (refs. 1 The 48-inch lidar measurements are curto 8). rently being archived at the World Ozone Data Center where they are distributed and used for aerosol attenuation corrections to Umkehr ozone measurements. Each month the Smithsonian's SEAN Bulletin (Scientific Event Alert Network) reports the

most recent lidar measurements from Langley; Mauna Loa Observatory, Hawaii; Garmisch Partenkirchen, West Germany; and Fukuoka, Japan. The lidar groups at all the aforementioned locations have also begun publishing summaries of their lidar data. A smaller version (a 14-in. telescope) of this ground-based system has been used for airborne observations of the stratospheric aerosol (refs. 8 to 16) and polar stratospheric clouds (refs. 17 to 20).

### **48-Inch Lidar System**

The lidar system used for the measurements presented in this report consists of a ruby laser, nominally emitting 1 joule per pulse at a repetition rate of 1 Hz at a wavelength ( $\lambda$ ) of 0.6943  $\mu$ m, and a 48-in. (1.22-m) cassegrainian configured telescope mounted on a mobile platform. The divergence of the transmitted laser beam is approximately 1.0 mrad, and the maximum receiver field of view is 4.0 mrad. The signal bandwidth of the lidar is 1 MHz, which is equivalent to a 150-m-altitude resolution. Three photomultiplier tubes, electronically switched on at specific times after laser firing, are used to enhance the dynamic range. The photomultiplier output signals are processed with an analog-to-digital converter and minicomputer, stored on magnetic tape, and displayed on an interactive terminal.

# **Lidar Profiles**

The lidar backscatter ratio (or scattering ratio) is defined as

$$R(z) = \frac{f_A(z) + f_M(z)}{f_M(z)} = 1 + \frac{f_A(z)}{f_M(z)}$$
(1)

where  $f_A$  is the aerosol backscattering function, or scattering function, and  $f_M$  is the molecular backscattering function, both in units of  $(\text{km-sr})^{-1}$ and both at altitude z. The function  $f_M(z)$  is calculated from a temperature-pressure profile obtained from the radiosonde launch at Wallops Island, Virginia (120 km northeast of the lidar system), just prior to or just after the lidar data are collected. The scattering ratio R(z) is calculated by evaluating

$$R(z) = k S(z) z^2 / f_M(z) q^2(z)$$
 (2)

where S(z) is the lidar signal received from altitude z,  $q^2(z)$  is the two-way atmospheric transmittance, and k is a system constant determined by normalizing the right-hand side of equation (2) to an expected minimum value of  $R(R_{\min})$  over a specified altitude range. The transmittance  $q^2(z)$  is calculated from a combination of radiosonde-derived molecular extinction, model or lidar-derived aerosol extinction, and model ozone absorption. During periods of background or moderate aerosol loading, aerosol extinction can be adequately modeled. However, since the eruptions of El Chichon  $(17.3^{\circ}N, 93.2^{\circ}W)$  in late March-early April 1982, aerosol extinction has been calculated directly from the aerosol backscattering function. The lidar equation (2) is solved three times using an updated value for aerosol extinction for the second and third iterations.

Appendix A presents the 114 scattering-ratio profiles obtained between June 1982 and November 1987. The profiles obtained before June 1982 were not stored numerically on a computer and could not be replotted easily for this report. The tropopause height corresponding to each profile is indicated by an arrow (as determined from the Wallops Island radiosonde). Each profile represents the sum of approximately 50 to 100 laser shots. The scattering-ratio profiles, plotted at 0.15-km intervals, have been linearly smoothed over 0.3 km to reduce noise fluctuations. It should be noted that the scale of the horizontal axis has been changed several times to accommodate the large variations in maximum scattering ratio.

Appendix B contains a numerical tabulation of the scattering ratio and scattering function versus altitude for each profile. The scattering-ratio and scattering-function values here are reported at 0.75-km intervals and smoothed over 0.90 km to reduce the amount of data to a manageable size. The profiles were normalized to a backscatter ratio of 1, a value that would be obtained only if no aerosols were present at some altitude within the normalization region. Occasionally, the numerical values of the scattering ratio are less than 1, and the corresponding scattering functions are negative. This occurs when the profile contains minima outside the normalization region. True minimum values of the scattering ratio and scattering function should be considered as 1 and 0, respectively.

The first scattering profiles presented in appendix A show the arrival of aerosol layers from El Chichon over Hampton, Virginia. The most dramatic evidence was on July 1, 1982, when the scatteringratio peak at  $\lambda = 0.6943 \ \mu m$  was 49.3 at 25.4 km. Initially, there were several distinct layers evident. By January 1983 these layers had merged into one broad layer, which decreased and declined in altitude with time. A much smaller enhancement in scattering ratio appears in April 1986. This is attributable to the eruption of Ruiz (5°N) in Colombia in November 1985. Several profiles exhibit large aerosol layers below the tropopause, which are due to cirrus clouds.

# **Error Analysis**

Lidar measurements are subject to a number of uncertainties arising both from the measurements themselves and from the assumptions used in the data analysis. The random error in the lidar scattering ratio contains contributions from signal measurement error, two-way transmission error, density errors, and error in the assumed value of  $R_{\min}$ . The magnitude of these errors is related to the amount of aerosol loading, the lidar wavelength, the proximity in time and space to a good molecular density profile, the number of laser shots averaged together in a measurement sequence, background lighting conditions, models used for atmospheric attenuation, etc. All these random errors can be measured or estimated as discussed by Russell et al. (ref. 21). However, systematic errors due to imperfect system alignment, nonlinearities in the detectors and signal-processing response (ref. 22), incorrect background measurement, etc., are usually hard to estimate and are not included in the error analysis. On the last two scattering-ratio profiles in appendix A (taken September 29 and November 13, 1987).  $1-\sigma$  random error bars are plotted and give some indication of the very good quality of the 48-inch lidar scattering-ratio measurement.

The random error in the aerosol backscattering function contains contributions from the same error sources as the scattering ratio. However, the relative error in the scattering function is more sensitive to the amount of aerosol being measured since it is proportional to  $f_M/f_A$ ; i.e., as the amount of aerosol being measured becomes small, the relative error in scattering function becomes very large. Measurements from the 48-inch lidar data system have been successfully compared with aerosol number concentrations measured by the University of Wyoming dustsonde flights (refs. 1, 2, and 3). A detailed error analysis of the lidar measurements is presented by Russell et al. (ref. 21).

## **Integrated Backscatter**

The integrated aerosol backscatter is defined as

$$\int_{h_T}^{30 \text{ km}} f_A(z) \, dz \tag{3}$$

where  $f_A$  is the aerosol backscattering function  $(\text{km-sr})^{-1}$  at altitude z, and  $h_T$  is the height of the tropopause. The numerical tabulations in appendix B contain the values of the integrated aerosol backscatter and tropopause height for the profiles in appendix A. These values show that the

maximum aerosol loading over Hampton from El Chichon occurred between January and March 1983.

An aerosol optical model was formulated using the size distribution and index of refraction data from a six-channel dustsonde launch on January 28, 1983, at Laramie, Wyoming (41°N). By assuming the aerosol characteristics determined from the dustsonde flight to be representative of the aerosol over the most massive part of the stratospheric cloud, a value for converting integrated backscatter to optical depth was calculated to be 48 sr (ref. 10). Using this conversion, a peak optical depth of about 0.13 at  $\lambda = 0.6943 \ \mu m$  was determined at Hampton, Virginia.

### Long-Term Record

The 48-inch lidar system at the Langley Research Center has been used for routine lidar measurements since May 1974. Table 1 lists the date, the parameter (peak scattering ratio (R) - 1), which is often called the backscatter mixing ratio, the altitude of the peak scattering ratio, and the integrated backscatter for the 236 lidar measurements taken between May 1974 and December 1987. (The actual number of measurement occasions is greater than 236. Some of the early data, taken before 1979, represent averages from several different measurement dates.) Figures 1 and 2 present the 48-inch lidar long-term plots of peak (R-1) and integrated backscatter. Figures 1 and 2 also show the major volcanic eruptions between 1974 and 1987 that injected aerosols into the stratosphere. From these figures, it is evident that the eruptions of El Chichon during late March and early April 1982 easily produced the largest enhancement in aerosol loading during this period. It is also evident that the stratospheric aerosol loading in 1987 is still approximately twice the background levels observed between 1977 and 1979.

### **Concluding Remarks**

This report has presented a summary of the 48-inch lidar data obtained at the NASA Langley Research Center between 1974 and 1987. Long-term plots of peak backscatter mixing ratio and integrated backscatter show numerous variations in the stratospheric aerosol layer during this 14-year time period. The most dramatic change was caused by the eruptions of El Chichon in late March-early April 1982. Scattering-ratio profiles measured between June 1982 and December 1987 further describe the effect of these eruptions and provide a more detailed description of the stratospheric and upper tropospheric aerosol layers. In addition, tables containing numerical values of the backscatter ratio and backscattering function versus altitude have been supplied for each profile. A brief discussion of lidar-error analysis is included. As such, the 48-inch lidar data set has been presented in a ready-to-use format for use in further scientific applications.

NASA Langley Research Center Hampton, VA 23665-5225 August 22, 1988

	1	Peak	Int. back		ـــــــــــــــــــــــــــــــــــــ	Deak	Int.
Date	$\overline{R-1}$	Alt., km	$sr^{-1}$	Date	$\overline{R-1}$	Alt., km	$sr^{-1}$
5/ 5/74	.07	17.0	.195E-04	11/ 1/78	.08	20.1	.332E-04
10/10/74	.28	16.4	.824E-04	12/13/78	.10	20.0	.465E-04
11/26/74	1.38	21.0	.320E-03	1/18/79	.07	20.0	.574E-04
11/28/74	.48	16.6	.327E-03	3/ 7/79	<b>.</b> 08	20.6	.635E-04
12/18/74	1.68	17.8	.451E-03	3/12/79	.10	21.0	.635E-04
2/ 1/75	1.45	20.4	.296E-03	4/18/79	.08	20.0	.220E-04
3/ 1/75	1.40	20.4	.407E-03	4/19/79	.07	20.6	.220E-04
4/ 1/75	1.13	18.5	.280E~03	5/ 2/79	.08	20.3	.282E-04
4/15/75	.86	17.8	.250E-03	6/26/79	.08	21.0	.417E-04
5/ 1/75	.75	17.3	.223E-03	10/18/79	.08	20.0	.305E-04
6/ 1/75	.58	16.4	.178E-03	10/31/79	,13	20.0	.454E-04
7/15/75	.53	18.2	.128E-03	11/17/79	.16	22.3	.472E-04
8/ 1/75	.52	17.3	.132E-03	5/ 5/80	.12	18.3	.397E-04
9/15/75	.51	18,7	.152E-03	5/15/80	.09	19.2	.538E-04
11/ 1/75	.45	17.4	.158E-03	5/26/80	.12	18.6	.868E-04
12/ 1/75	.46	18.5	.173E-03	5/27/80	.26	13.7	.868E-04
1/22/76	.38	17.6	.211E-03	6/ 4/80	2.25	18.0	.299E-03
2/19/76	.22	19.2	.903E-04	6/ 5/80	1.85	14.0	.299 <b>E</b> -03
3/17/76	,19	18.2	.117E-03	6/ 9/80	.64	13.4	.150E-03
4/15/76	.19	18.5	.131E-03	6/12/80	1,00	14.3	.150E-03
5/12/76	.17	19.6	.740E-04	6/17/80	.45	18.0	.141E-03
6/13/76	.15	19.7	.720E-04	6/19/80	1.44	18.8	.141E-03
7/19/76	.19	19.3	.697E-04	7/ 7/80	.63	19.1	.131E03
8/30/76	.19	18.9	.911E-04	7/14/80	.58	18.8	.131E-03
9/22/76	.15	18.8	.850E-04	7/28/80	.74	20.7	.952E-04
10/28/76	.15	18.0	.730E-04	8/ 3/80	.56	20.7	<b>.114E-</b> 03
12/ 1/76	.14	19.8	.650E~04	8/ 7/80	.48	17.6	.114E-03
12/20/76	.13	19.9	.475E-04	8/25/80	.34	17.7	.987E-04
2/ 1/77	.13	20.6	.287E-04	8/28/80	.35	18.7	.987E-04
3/24/77	.14	21.3	.721E-04	9/11/80	.28	17.5	.96 <b>9E</b> −04
5/11/77	.13	24.0	.347E-04	11/12/80	.34	18.5	.110E-03
6/ 1/77	.12	23.3	.370E-04	11/20/80	.25	.17.7	.864E-04
8/ 1/77	.10	22.0	.421E-04	11/25/80	.28	18.5	.844E-04
8/31/77	.10	21.0	.449E-04	12/ 1/80	.25	17.9	.105E-03
9/10/77	.10	21.3	.530E-04	12/ 2/80	.18	17.7	.105E-03
10/17/77	.09	22.4	.783E-04	12/11/80	.34	14.7	.267E-03
11/ 3/77	.09	22.4	.680E-04	1/ 1/81	.22	17.0	.230E-03
12/ 7/77	.10	22.4	.574E-04	1/28/81	.27	17.0	.209E-03
1/23/78	.12	23.6	.508E-04	2/ 3/81	.21	17.0	.249E-03
2/15/78	.10	23.1	.734E-04	2/23/81	.23	18.5	.100E-03
3/28/78	.08	20.7	.377E-04	3/ 3/81	.17	18.5	.106E-03
5/ 2/78	.12	21.0	.349E-04	3/12/81	.19	18.5	.112E-03
// 5/78	•08	22.0	.435E-04	3/25/81	•13	20.0	.847E-04
8/15/78	.07	22.0	.400E-04	4/ 7/81	.13	19.2	.580E-04
9/20/78	.07	20.6	.3/UE-U4	5/ 4/81	<b>,</b> 1δ	19.2	.909E-04

Table 1. Summary of Lidar Measurements Taken May 1974 to December 1987

Tahl	ρ	1	Con	tin	11.	òr	ł
TUN	<u> </u>	<b>T</b> •	COIL	0111	.u	υu	t

			Int.				Int.
		Peak	back.,			Peak	back.,
Date	R-1	Alt., km	sr <sup>-1</sup>	Date	$\frac{R-1}{}$	Alt., km	sr <sup>-1</sup>
5/12/81	.12	20.0	.114E-03	12/14/82	15.80	22.4	.210E-02
6/ 8/81	.96	15.0	.130E-03	1/ 3/83	13.20	21.0	.245E-02
6/11/81	1.61	14.6	.253E-03	1/13/83	7.81	18.9	.266E-02
6/23/81	.70	16.5	.235E-03	1/18/83	8.49	18.6	.263E-02
7/15/81	.55	17.0	.219E-03	3/ 2/83	8.63	20.7	.270E-02
7/23/81	.42	17.0	.193E-03	3/ 3/83	7.51	20.6	.248E-02
7/30/81	.46	17.0	.170E-03	3/22/83	6.30	21.8	.244E-02
8/13/81	.53	15.3	.150E-03	6/22/83	3.92	18.8	.130E-02
8/26/81	.48	16.2	.128E-03	6/23/83	3.04	18.8	.981E-03
8/27/81	.43	16.7	.128E-03	6/26/83	3.32	18.7	.953E-03
9/ 9/81	.39	15.5	.118E-03	6/27/83	3.50	18.6	.884E-03
9/21/81	.32	16.5	.134E-03	6/30/83	3,25	19.2	.777E-03
9/24/81	.36	17.0	.134E-03	7/ 7/83	2.57	20.1	.792E-03
10/ 7/81	.34	17.3	.146E-03	7/26/83	2.81	18.8	.855E-03
10/19/81	.25	17.0	.923E-04	7/27/83	3.08	18.2	.901E-03
12/29/81	.22	18.0	.956E-04	8/15/83	2.80	17.7	.842E-03
1/ 5/82	.30	15.9	.191E-03	8/25/83	2.90	18.3	•/52E-03
1/26/82	.15	22.2	.126E-03	8/30/83	2.70	18.2	.809E-03
2/10/82	.64	16.1	.260E-03	9/19/83	3.00	18.3	.85/E-03
3/ 8/82	.67	15.1	.369E-03	10/ 3/83	2.80	18.0	.826E-03
3/1//82	.55	17.3	.240E-03	10/27/83	2.40	13.0	•1/3E-02
3/29/02	.61	17.9	-705E-03	10/31/83	2.50	10./	.101E-02
4/ 1/02	.52	1/.5	178F-03	11/ 0/03 20/71/11	2.00	1/./	./OUE-US
4/ //02	•34 10	13.1	266F-03	11/1/03	2 90	18.0	.100E-02
4/14/02	-45	13.4	288E-03	11/21/03	4 30	19.0	-923E-03
4/23/02	.30	19.3	245E-03	11/20/83	3 40	191	1108-02
5/ 4/82	-02 35	12.5	.217E-03	12/ 7/83	2,10	16.7	102E-02
5/10/82	1 35	17 3	.302E-03	2/ 8/84	2.20	17.9	.934E-03
5/17/82	3,19	17.2	.408E-03	2/21/84	1,90	17.9	.875E-03
6/ 2/82	1.18	23.2	.213E-03	3/ 1/84	1.60	18.6	.963E-03
6/ 9/82	2.77	20.2	.386E-03	3/ 7/84	1.60	16.2	.650E-03
6/14/82	7.40	22.7	.774E-03	3/14/84	1.70	18.5	.912E-03
6/23/82	1.74	18.9	.631E-03	4/ 2/84	1.30	20.6	.564E-03
7/ 1/82	48.30	25.4	.240E-02	4/11/84	1.30	18.2	.792E-03
7/21/82	3.74	24.6	.574E-03	4/25/84	1.10	18.6	.420E-03
8/19/82	5.45	21.8	.582E-03	4/26/84	1.10	18.6	.384E-03
9/ 8/82	3.76	21.5	.732E-03	5/ 9/84	1.20	19.4	.664E-03
9/14/82	8.50	23.4	.814E-03	5/16/84	1.20	19.7	.112E-02
9/23/82	4.49	21.9	.877E-03	5/24/84	1.00	20.1	.344E-03
10/ 6/82	10.50	25.8	.901E-03	6/ 4/84	1.10	19.7	.365E-03
10/27/82	9.00	22.4	.160E-02	6/11/84	1.10	17.9	.388E-03
11/16/82	15.40	23.6	.135E-02	6/25/84	1.00	18.6	.563E-03
11/29/82	23.20	22.7	.273E-02	7/ 9/84	1.40	18.0	.549E-03
12/ 7/82	16.60	23.9	.160E-02	8/ 7/84	1.00	19.1	.297E-03

		Peak	Int. back.,			Peak	Int. back.,
Date	$\overline{R-1}$	Alt., km		Date	R-1	Alt., km	$\mathrm{sr}^{-1'}$
8/15/84	1.00	18.6	.305E-03	6/18/86	.49	19.5	.680E-04
8/21/84	1.00	20.0	.315E-03	6/26/86	.44	20.0	.770E-04
9/ 6/84	.90	18.2	.428E-03	8/26/86	.33	19.4	.102E-03
9/19/84	.80	18.3	.259E-03	9/17/86	.32	19.5	.109E-03
10/29/84	1.10	20.0	.247E-03	10/16/86	.49	20.6	.125E-03
11/ 8/84	.60	18,5	.221E-03	10/20/86	.54	20.3	.196E-03
11/29/84	.80	18.0	.270E-03	10/29/86	.47	19.5	.109E-03
2/10/85	1.00	18.8	.348E-03	11/19/86	.71	24.3	.217E-03
2/20/85	.70	21.3	.401E-03	11/21/86	.42	19.5	.182E-03
3/ 6/85	.80	20.1	.232E-03	12/ 3/86	.47	19.7	.214E-03
3/12/85	.70	17.7	.298E-03	12/ 4/86	.40	19.1	.158E-03
5/ 6/85	.60	20.4	.234E-03	12/22/86	.41	19.4	.116E-03
6/13/85	.70	19.7	.286E-03	1/ 8/87	.37	19.8	.154E-03
6/20/85	.50	18.3	.271E-03	1/14/87	.39	19.8	.115E-03
6/26/85	.50	19.1	,196E-03	2/13/87	.58	20.1	.274E-03
7/ 9/85	.60	20.0	.241E-03	2/19/87	.45	19.8	.145E-03
7/18/85	.50	20.7	.150E-03	2/26/87	.40	24.6	.176E-03
8/ 3/85	.40	19.5	.940E-04	5/ 1/87	.42	21.8	.134E-03
11/ 7/85	.45	19.1	.181E-03	6/11/87	.29	21.2	.910E-04
12/10/85	.44	17.9	.162E-03	6/19/87	.33	21.8	.111E-03
2/14/86	.44	15.5	.324E-03	6/26/87	.30	21.2	.750E-04
3/ 6/86	.42	16.7	.224E-03	6/30/87	.41	24.2	.122E-03
4/29/86	.89	18.6	.209E03	7/22/87	.43	22.2	.118E-03
4/30/86	.77	19.1	.168E-03	7/24/87	.38	22.1	.131E-03
5/ 6/86	.68	19.8	.134E-03	8/12/87	.51	24.3	.144E-03
5/13/86	.62	18.8	.154E-03	8/25/87	.44	22.2	.137E-03
6/ 4/86	.56	21.5	.115E-03	9/29/87	.37	25.4	.117E-03
6/10/86	.44	20.6	.770E-04	11/13/87	.34	20.0	.141E-03

Table 1. Concluded









# Appendix A

# Lidar Scattering-Ratio Profiles

This appendix presents the 114 48-inch lidar scattering-ratio profiles measured between June 1982

and November 1987. The arrow indicates the tropopause height corresponding to each profile (as determined from the Wallops Island radiosonde). These profiles correspond to the numerical tables presented in appendix B.





























 $\mathbf{23}$ 



 $\mathbf{24}$ 




























## Appendix **B**

## Tables of Scattering Ratio and Scattering Function Versus Altitude for Each Profile

This appendix contains numerical tables of scattering ratio and aerosol backscattering function versus altitude for the profiles shown in appendix A. Values are given every 0.75 km and smoothed over 0.90 km. Each table also includes the date, normalization height (HNORM), tropopause height (TROP), integrated backscatter, and number of altitude levels for each profile.

DATE 6/ HNORM TROP INT BACK LEVELS	/14/82 27.62 KM 13.00 KM (SCATTER .7 35	74E-03 SR**-1	DATE 6/2 HNORM 2 TROP 1 INT BACKS LEVELS	23/82 27.77 KM 12.40 KM SCATTER .6 35	31E-03 SR**-1
HEIGHT,	SCATTERING	AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL
КМ	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.044	.1502E-04	4.22	2,219	.4169E-03
4.97	1.105	.3329E-04	4.97	2.269	.4011E-03
5.72	1.107	.3139E-04	5.72	1.832	.2430E-03
6.47	1.148	.4029E-04	6.47	2.653	.4466E-03
7.22	1.117	.2941E-04	7.22	2,695	.4234E-03
7.97	1.060	.1392E-04	7.97	2.329	.3067E-03
8.72	1.079	.1716E-04	8.72	2,241	.2641E-03
9.47	1.158	.3133E-04	9.47	2.438	.2824E-03
10.22	1.226	.4080E-04	10.22	7.000	.1082E-02
10.97	1.185	.3011E-04	10.97	3.079	.3436E-03
11.72	1.315	.4613E-04	11.72	1.614	.9130E-04
12.47	1.546	.7144E-04	12.47	1.497	.6714E-04
13.22	1.625	.7374E-04	13.22	1.711	.8460E-04
13.97	1.580	.6083E-04	13,97	1.564	.6016E-04
14.72	1.665	.6252E-04	14.72	1.600	.5653E-04
15.47	1.774	.6463E-04	15.47	1,501	.4230E-04
16.22	2.043	.7749E-04	16.22	1.777	.5823E-04
16.97	2.121	.7361E-04	16.97	2.353	.9034E-04
17.72	2.162	.6762E-04	17,72	2.446	.8414E-04
18.47	2.435	.7396E-04	18,47	2.443	.7433E-04
19.22	1.679	.3095E-04	19.22	2.523	.6962E-04
19.97	3.694	.1086E-03	19,97	2,525	.6183E-04
20.72	2.065	.3796E-04	20.72	1.844	.3038E-04
21.47	3.235	.7065E-04	21.47	1.941	.3005E-04
22.22	5.676	.1313E-03	22,22	1,651	.1846E-04
22.97	5.037	.1007E-03	22,97	1.223	.5626E-05
23.72	1.093	.2057E-05	23.72	1,455	.1019E-04
24.47	1.046	.9015E-06	24.47	1,823	.1634E-04
25.22	1.023	.4053E-06	25.22	1,144	.2520E-05
25.97	1.421	.6528E-05	25.97	1.082	.1277E-05
26.72	1.141	.1938E-05	26.72	1.100	.1376E-05
27.47	1.021	.2521E-06	27.47	1.033	.4018E-06
28.22	1.016	.1743E-06	28.22	1.023	.2509E-06
28.97	1.000	.1940E-08	28.97	1.005	.4912E-07
29.72	, 990	8633E-07	29.72	1.005	.4736E-07

DATE 7/	/ 1/82		DATE 7	/21/82		
HNORM	5.19 KM		HNORM	6.02 KM		
TROP	14.00 KM		TROP	15.50 KM		
INT BACK	SCATTER .	240E-02 SR**-1	INT BAC	KSCATTER	.574E-03 SR**-1	
LEVELS	40		LEVELS	40		
HEIGHT,	SCATTERING	AEROSOL	HEI GHT,	SCATTERIN	G AEROSOL	
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,	
		(KM-SR)**-1			(KM-SR)**-1	
4.29	1.044	.1506E-04	4.22	1.069	.2335E-04	
5.04	1.003	.1005E-05	4.97	.959	1292E-04	
5.79	1.054	.1564E-04	5.72	.983	4915E-05	
6.54	1.074	.1995E-04	6.47	1.023	.6057E-05	
7.29	1.081	.1994E-04	7.22	1.032	.7994E-05	
8.04	1.114	.2599E-04	7.97	1.041	.9466E-05	
8.79	1.153	.3190E-04	8.72	1.061	.1296E-04	
9.54	1.175	.3356E-04	9.47	1.082	.1615E-04	
10.29	1.236	.4165E-04	10.22	1.088	.1586E-04	
11.04	1.255	.4125E-04	10.97	1.092	.1517E-04	
11.79	1.180	.2657E-04	11.72	1.139	.2081E-04	
12.54	1.188	.2536E-04	12.47	1.177	.2407E-04	
13.29	1.336	.4103E-04	13.22	1.058	.7112E-05	
14.04	1.350	.3802E-04	13.97	1.164	.1793E-04	
14.79	1.633	.6054E-04	14.72	1.254	.2493E-04	
15.54	1.805	.6768E-04	15.47	1.389	.3411E-04	
16.29	2.027	.7657E-04	16.22	1.801	.6240E-04	
17.04	2.240	.8236E-04	16.97	2,250	.8554E-04	
17.79	2.171	.6789E-04	17.72	2.455	.8792E-04	
18.54	2.234	.6288E-04	18.47	2.264	.6742E-04	
19.29	2.169	.5280E-04	19.22	2.243	.5862E-04	
20.04	1.898	.3583E-04	19.97	2.033	.4314E-04	
20.79	1.664	.2340E-04	20.72	3,138	.7911E-04	
21.54	1.267	.8310E-05	21.47	3.704	.8873E-04	
22.29	2.224	.3369E-04	22.22	1.996	.2902E-04	
23.04	5.775	.1177E-03	22.97	1.186	.4798E-05	
23.87	19.614	.4009E-03	23.72	1.257	.5877E-05	
24.69	40.542	.7456E-03	24.47	2.982	.3986E-04	
25.44	48.548	.7992E-03	25.22	3,757	.4925E-04	
26.19	28.385	.4103E-03	25,97	2,989	.3155E-04	
26.94	3.491	.3326E-04	26.72	1.228	.3209E-05	
27.69	1.188	.2232E-05	27.47	1,180	.2260E-05	
28.44	1.037	.3961E-06	28.22	1.153	.1708E-05	
29.19	1.060	.5649E-06	28.97	1.147	.1466E-05	
29.94	1.126	.1062E-05	29.72	1,174	.1540E-05	
30.69	1.124	.9260E-06	30.47	1.161	.1273E-05	
31.44	1.138	.9199E-06	31.22	1.197	.1389E-05	
32.19	1.146	.8692E-06	31.97	1.119	.7492E-06	
32,94	1.161	.8545E-06	32.72	1.096	.5404E-06	
33.69	1.185	.8776E-06	33.47	1.114	.5722E-06	

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DATE 8,	/19/82		DATE 9/	8/82	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	HNORM	6.32 KM		HNORM	9.92 KM	
INT BACKSCATTER .582E-03 SR**-1 LEVELS 40 HEIGHT, SCATTERING AEROSOL KM RATIO BACKSCATTER, (KM-SR)**-1 4.22 .9372158E-04 4.97 .9796631E-05 5.72 1.015 .4380E-05 5.72 1.015 .4380E-05 5.72 1.016 .4242E-05 6.47 1.016 .4242E-05 6.47 1.016 .4242E-05 7.97 1.063 .1462E-04 7.22 1.033 .0905E-05 7.97 1.063 .1462E-04 8.72 1.075 .1596E-04 8.72 1.075 .1596E-04 8.72 1.075 .1596E-04 8.72 1.075 .1596E-04 8.72 1.025 .1106 1.16E-04 8.72 1.075 .1596E-04 1.172 1.036 .1228E-04 1.172 1.036 .1228E-04 1.172 1.036 .1228E-04 1.172 1.036 .1228E-04 1.172 1.036 .1228E-04 1.172 1.041 .150E-04 1.172 1.042 .150E-04 1.172 1.042 .150E-04 1.172 1.042 .150E-04 1.172 1.042 .150E-04 1.172 2.2421 .6718E-04 16.72 .019 .6847E-04 1.172 2.2422 .6550E-04 1.1772 2.225 .4532E-04 20.72 2.534 .5521E-04 2.77 2.225 .4532E-04 20.72 2.534 .5521E-04 2.77 2.225 .4532E-04 20.72 2.534 .5531E-04 2.77 2.225 .4532E-04 20.72 2.534 .5531E-04 2.77 2.225 .4532E-04 22.27 1.373 .5935E-04 2.77 2.225 .4532E-04 22.27 1.373 .5935E-04 2.77 2.225 .4532E-04 22.27 1.373 .5935E-04 2.77 2.225 .4532E-04 22.77 2.538 .3135E-04 2.527 1.343 .8784E-05 22.97 3.373 .5935E-04 2.527 1.299 .4900E-05 25.22 3.423 .4210E-04 2.527 1.343 .8784E-05 22.97 2.333 .5933E-04 2.527 2.248 .1091E-04 27.47 1.229 .2779E-05 2.8	TROP	15.60 KM		TROP 1	3.60 KM	
LEVELS40LEVELS40HEIGHT, SCATTERING KMAEROSOL BACKSCATTER, (KM-SR)**-1HEIGHT, SCATTERING KMAEROSOL BACKSCATTER, (KM-SR)**-1 $4.22$ .9372158E-044.221.136.4683E-04 $4.97$ .9796631E-054.971.274.8740E-04 $5.72$ 1.016.4242E-056.471.041.1109E-04 $7.22$ 1.043.1060E-047.221.036.9995E-05 $7.97$ 1.063.1462E-047.221.036.9995E-05 $7.97$ 1.075.1596E-048.721.052.1116E-04 $9.47$ 1.098.1928E-049.471.036.7128E-05 $10.22$ 1.119.1254E-0410.221.021.3762E-05 $10.97$ 1.196.3268E-0410.971.069.1150E-04 $11.72$ 1.331.5053E-0411.721.182.2490E-04 $13.22$ 1.215.2557E-0413.221.344.4226E-04 $13.97$ 1.513.5700E-0413.971.450.4907E-04 $14.72$ 1.682.6754E-0416.97.2019.6847E-04 $14.72$ 1.426.3766E-0416.97.2019.6847E-04 $16.97$ 2.013.6898E-0416.97.2019.6832E-04 $16.97$ 1.988.6898E-0416.97.2019.6832E-04 $19.92$ 2.423.65470E-0418.47.491.7839E-04 $19.97$ 2.308.5470E-0417.72 <td>INT BAC</td> <td>KSCATTER .</td> <td>582E-03 SR**-1</td> <td>INT BACKS</td> <td>SCATTER .7</td> <td>32E-03 SR**-1</td>	INT BAC	KSCATTER .	582E-03 SR**-1	INT BACKS	SCATTER .7	32E-03 SR**-1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LEVELS	40		LEVELS	40	
HEIGHT, SCATTERING KMAEROSOL RATIOHEIGHT, SCATTERING KMAEROSOL RATIOHEIGHT, SCATTERING KMAEROSOL RATIO4.22.937 $-2158E-04$ 4.22 $1.136$ $4683E-04$ 4.97.979 $-6631E+05$ 4.97 $1.274$ $8740E-04$ 5.72 $1.015$ $4380E+05$ $5.72$ $1.061$ $11801E-04$ 6.47 $1.016$ $4242E+05$ $6.47$ $1.041$ $1109E-04$ 7.22 $1.043$ $1060E+04$ $7.22$ $1.036$ $9095E+05$ 7.97 $1.063$ $.1462E+04$ $7.97$ $1.057$ $.1314E+04$ 8.72 $1.075$ $.1596E+04$ $8.72$ $1.052$ $.1116E+04$ 9.47 $1.098$ $.1928E+04$ $9.47$ $1.036$ $.7128E+05$ 10.97 $1.196$ $.3268E+04$ $10.97$ $1.069$ $.1150E+04$ 12.47 $1.82$ $.2490E+04$ 12.47 $1.82$ $.2490E+04$ 13.22 $1.215$ $.2657E+04$ $13.22$ $1.344$ $.4226E-04$ 13.97 $1.513$ $.5700E+04$ $14.72$ $1.458$ $.4407E+04$ 16.97 $1.988$ $.6898E+04$ $15.47$ $1.525$ $.4516E+04$ 16.97 $1.998$ $.6898E+04$ $17.72$ $2.321$ $.7879E-04$ 16.22 $1.439$ $.3450E+04$ $15.47$ $1.525$ $.4516E+04$ 16.97 $1.098$ $.6898E+04$ $17.72$ $2.321$ $.7879E-04$ 17.72 $2.423$ $.8644E+04$ $17.72$ $2.321$ $.7839E-04$						
KMRATIOBACKSCATTER, (KM-SR)**-1KMRATIOBACKSCATTER, (KM-SR)**-1 $4.22$ .937 $2158E-04$ $4.22$ $1.136$ $.4683E-04$ $4.97$ .979 $6631E-05$ $4.97$ $1.274$ $.8740E-04$ $5.72$ $1.015$ $.4380E-05$ $5.72$ $1.061$ $.1801E-04$ $6.47$ $1.016$ $.4242E-05$ $6.47$ $1.041$ $.1109E-04$ $7.22$ $1.043$ $.1060E-04$ $7.22$ $1.036$ $.9095E-05$ $7.97$ $1.063$ $.1462E-04$ $7.97$ $1.057$ $.1314E-04$ $8.72$ $1.036$ .7128E-05 $10.22$ $.1116E-04$ $9.47$ $1.098$ $.1928E-04$ $9.47$ $1.036$ .7128E-05 $10.22$ $1.119$ .2154E-04 $10.22$ $1.021$ $.3762E-05$ $10.97$ $1.196$ $.3268E-04$ $11.72$ $1.104$ $.1569E-04$ $12.47$ $1.261$ $.3599E-04$ $12.47$ $1.82$ $.2490E-04$ $13.22$ $1.215$ $.2657E-04$ $13.22$ $1.344$ $.4226E-04$ $13.97$ $1.450$ $.4907E-04$ $14.72$ $.458$ $.4407E-04$ $16.47$ $1.426$ $.3786E-04$ $15.47$ $1.525$ $.4516E-04$ $16.22$ $1.660$ $.5023E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8648E-04$ $17.72$ $2.321$ $.7879E-04$ $16.97$ $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2$	HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT, S	CATTERING	AEROSOL
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	КМ	RATIO	BACKSCATTER,	КМ	RATIO	BACKSCATTER,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			(KM-SR)**-1			(KM-SR)**-1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			•••••			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.22	.937	2158E-04	4.22	1.136	.4683E-04
5.72 $1.015$ $.4380E-05$ $5.72$ $1.061$ $.1801E-04$ $6.47$ $1.016$ $.4242E-05$ $6.47$ $1.041$ $.1109E-04$ $7.22$ $1.043$ $.1060E-04$ $7.22$ $1.036$ $.9095E-05$ $7.97$ $1.063$ $.1462E-04$ $7.97$ $1.057$ $.1314E-04$ $8.72$ $1.075$ $.1596E-04$ $8.72$ $1.052$ $.1116E-04$ $9.47$ $1.098$ $.1928E-04$ $9.47$ $1.036$ $.7128E-05$ $10.22$ $1.119$ $.2154E-04$ $10.27$ $1.021$ $.3762E-05$ $10.97$ $1.196$ $.3268E-04$ $10.97$ $1.069$ $.1150E-04$ $11.72$ $1.331$ $.5053E-04$ $11.72$ $1.104$ $.1569E-04$ $12.47$ $1.261$ $.3599E-04$ $12.47$ $1.182$ $.2490E-04$ $13.22$ $1.215$ $.2657E-04$ $13.22$ $1.344$ $.4226E-04$ $13.97$ $1.513$ $.5700E-04$ $13.97$ $1.450$ $.4907B-04$ $14.72$ $1.682$ $.6754E-04$ $14.72$ $1.458$ $.4407E-04$ $14.72$ $1.682$ $.6754E-04$ $15.47$ $1.525$ $.4516E-04$ $16.22$ $1.439$ $.3450E-04$ $16.97$ $2.019$ $.6847E-04$ $16.22$ $1.439$ $.3450E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$	4.97	.979	6631E-05	4.97	1.274	.8740E-04
	5.72	1.015	4380E-05	5.72	1.061	.1801E-04
7.221.043.1060E-047.221.036.9095E-057.971.063.1462E-047.971.057.1314E-048.721.075.1596E-048.721.052.1116E-049.471.098.1928E-049.471.036.7128E-0510.221.119.2154E-0410.221.021.3762E-0510.971.196.3268E-0410.971.069.1150E-0411.721.331.5053E-0411.721.104.1569E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0415.471.426.3766E-0415.471.525.4516E-0416.221.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7839E-0419.222.421.6718E-0419.22.422.6550E-0419.972.308.5470E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.23.520.7293E-0422.27.553.521E-0422.971.343.8784E-0522.973.373.5935E-0423.721.829 </td <td>6.47</td> <td>1,016</td> <td>4242E-05</td> <td>6.47</td> <td>1.041</td> <td>.1109E-04</td>	6.47	1,016	4242E-05	6.47	1.041	.1109E-04
7.971.0631.462E-047.971.0571.314E-048.721.075.1596E-048.721.052.1116E-049.471.098.1928E-049.471.036.7128E-0510.221.119.2154E-0410.221.021.3762E-0510.971.196.3268E-0410.971.069.1150E-0411.721.331.5053E-0411.721.104.1569E-0412.471.261.3599E-0412.471.182.2490E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.407E-0415.471.426.3786E-0416.97.019.6847E-0416.221.439.3450E-0416.97.019.6847E-0417.722.423.6648E-0417.722.321.7878E-0418.472.461.7816E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.2971.343.8784E-0522.97.373.5935E-0423.721.829.1876E-0423.721.917.2031E-0425.221.523.9311E-0525.223.423.4210E-0425.221.523.9311E-0525.97.018.1566E-0526.721.299	7.22	1.043	1060E-04	7.22	1.036	90958-05
8.72 $1.075$ $1.596E-04$ $8.72$ $1.057$ $1.16E-04$ $9.47$ $1.098$ $.1928E-04$ $9.47$ $1.036$ $.7128E-05$ $10.22$ $1.119$ $.2154E-04$ $10.22$ $1.021$ $.3762E-05$ $10.97$ $1.196$ $.3268E-04$ $10.97$ $1.069$ $.1150E-04$ $11.72$ $1.331$ $.5053E-04$ $11.72$ $1.104$ $.1569E-04$ $12.47$ $1.261$ $.3599E-04$ $12.47$ $1.182$ $.2490E-04$ $13.22$ $1.215$ $.2657E-04$ $13.22$ $1.344$ $.4226E-04$ $13.97$ $1.513$ $.5700E-04$ $13.97$ $1.450$ $.4907E-04$ $14.72$ $1.682$ $.6754E-04$ $14.72$ $1.458$ $.4407E-04$ $15.47$ $1.426$ $.3786E-04$ $15.47$ $1.525$ $.4516E-04$ $16.97$ $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.72$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $1876E-04$ $22.72$ $3.423$ $.4210E-04$ $22.22$ $3.520$ $.7293E-04$ $22.72$ $3.73$ $.5935E-04$ $2$	7 97	1 063	1462E-04	7 97	1 057	1314E-04
9.471.0381.1328E-049.471.0321.13021.130310.221.119.2154E-0410.221.021.3762E-0510.971.196.3268E-0410.971.069.1150E-0411.721.331.5053E-0411.721.104.1569E-0412.471.261.3599E-0412.471.182.2490E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0415.471.525.4516E-0416.211.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.972.308.5470E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.971.343.8784E-0522.973.73.5935E-0423.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.223.423.4210E-0426.721.299.4190E-0526.721.399.5436E-05 <td< td=""><td>8 72</td><td>1 075</td><td>1596E-04</td><td>8 72</td><td>1 052</td><td>1116E-04</td></td<>	8 72	1 075	1596E-04	8 72	1 052	1116E-04
1.0.22 $1.1000$ $1.1000$ $1.1000$ $1.1000$ $1.1000$ $10.22$ $1.119$ $2.154E-04$ $10.22$ $1.021$ $3.762E-05$ $10.97$ $1.196$ $3.268E-04$ $10.97$ $1.069$ $.1150E-04$ $11.72$ $1.331$ $5053E-04$ $11.72$ $1.104$ $.1569E-04$ $12.47$ $1.261$ $.3599E-04$ $12.47$ $1.182$ $.2490E-04$ $13.22$ $1.215$ $.2657E-04$ $13.22$ $1.344$ $.4226E-04$ $13.97$ $1.513$ $.5700E-04$ $13.97$ $1.450$ $.4907E-04$ $14.72$ $1.682$ $.6754E-04$ $14.72$ $1.458$ $.4407E-04$ $15.47$ $1.426$ $.3786E-04$ $16.22$ $1.660$ $.5023E-04$ $16.22$ $1.439$ $.3450E-04$ $16.22$ $1.660$ $.5023E-04$ $16.97$ $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.92$ $2.421$ $.6718E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.860$ $1269E-03$ $21.47$ $4.35$ $.9900E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.71$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$	9 17	1 098	1928F-04	9.17	1 036	71288-05
10.221.119.219E-0410.271.021.3702E-0310.971.196.3268E-0410.971.069.1150E-0411.721.331.5053E-0411.721.104.1569E-0412.471.261.3599E-0412.471.182.2490E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0415.471.426.3786E-0415.471.525.4516E-0416.221.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.222.421.6718E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.971.343.8784E-0522.973.73.5935E-0423.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.97.018.1566E-0526.721.299.4190E-0526.72.399.5436E-0527.47 <td< td=""><td>10 22</td><td>סנינ נ סוו ו</td><td>21548-04</td><td>10 22</td><td>1 021</td><td>-7120D 00 27678-05</td></td<>	10 22	סנינ נ סוו ו	21548-04	10 22	1 021	-7120D 00 27678-05
10.571.136.32081-0410.571.106.11301-0411.721.331.5053E-0411.721.104.1569E-0412.471.261.3599E-0412.471.182.2490E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0416.221.439.3450E-0416.271.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.222.421.6718E-0419.22.422.6550E-0419.972.308.5470E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.223.520.7293E-0422.224.265.9216E-0423.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.1356E-0425.971.186.2942E-0525.972.018.1566E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.47	10.22	1 104	22695.04	10.22	1.021	.5702B 05
11.721.331.503E-0411.721.104.1569E-0412.471.2471.182.2490E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0415.471.426.3786E-0416.221.660.5023E-0416.221.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.922.421.6718E-0419.222.422.6550E-0419.972.308.5470E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.2971.343.8784E-0522.973.373.5935E-0423.721.829.1876E-0423.721.917.2031E-0425.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-04 <td>10.57</td> <td>1,190 1 221</td> <td>.3200E-04</td> <td>10.37</td> <td>1.005</td> <td>11506-04</td>	10.57	1,190 1 221	.3200E-04	10.37	1.005	11506-04
12.471.261.3599E-0412.471.182.2490E-0413.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0415.471.426.3786E-0415.471.525.4516E-0416.221.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.222.421.6718E-0419.22.422.6550E-0419.972.308.5470E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.223.520.7293E-0422.224.265.9216E-0422.971.343.8784E-0522.973.373.5935E-0423.721.829.1876E-0423.721.917.2031E-0425.971.186.2942E-0525.972.018.1566E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.97	11./2	1.331	.0003E-04	11.72	1.104	.10076-04
13.221.215.2657E-0413.221.344.4226E-0413.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0415.471.426.3786E-0415.471.525.4516E-0416.221.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.222.421.6718E-0419.922.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.223.520.7293E-0422.224.265.9216E-0423.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0526.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.22.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.104.8928E-0630.47	12.47	1.261	.3599E-04	12.47	1.182	.24906-04
13.971.513.5700E-0413.971.450.4907E-0414.721.682.6754E-0414.721.458.4407E-0415.471.426.3786E-0415.471.525.4516E-0416.221.439.3450E-0416.221.660.5023E-0416.971.988.6898E-0416.972.019.6847E-0417.722.423.8644E-0417.722.321.7879E-0418.472.461.7816E-0418.472.491.7839E-0419.222.421.6718E-0419.972.433.5833E-0420.722.225.4532E-0420.722.534.5521E-0421.474.880.1269E-0321.474.135.9990E-0422.971.343.8784E-0522.973.373.5935E-0423.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.47 <td>13.22</td> <td>1.215</td> <td>.265/E-04</td> <td>13,22</td> <td>1.344</td> <td>.42268-04</td>	13.22	1.215	.265/E-04	13,22	1.344	.42268-04
14.72 $1.682$ $.6754E-04$ $14.72$ $1.458$ $.4407E-04$ $15.47$ $1.426$ $.3786E-04$ $15.47$ $1.525$ $.4516E-04$ $16.22$ $1.439$ $.3450E-04$ $16.22$ $1.660$ $.5023E-04$ $16.97$ $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.22$ $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ <tr<< td=""><td>13.97</td><td>1.513</td><td>.5700E-04</td><td>13.97</td><td>1.450</td><td>.490/15-04</td></tr<<>	13.97	1.513	.5700E-04	13.97	1.450	.490/15-04
15.47 $1.426$ $.3786E-04$ $15.47$ $1.525$ $.4516E-04$ $16.22$ $1.439$ $.3450E-04$ $16.22$ $1.660$ $.5023E-04$ $16.97$ $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.22$ $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.104$ $.8928E-06$ <tr< td=""><td>14.72</td><td>1.682</td><td>.6/54E~04</td><td>14.72</td><td>1.458</td><td>.440/E-04</td></tr<>	14.72	1.682	.6/54E~04	14.72	1.458	.440/E-04
16.22 $1.439$ $.3450E-04$ $16.22$ $1.660$ $.5023E-04$ $16.97$ $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.22$ $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.73$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.104$ $.8928E-06$ <tr<< td=""><td>15.47</td><td>1,426</td><td>.3786E-04</td><td>15.47</td><td>1.525</td><td>.4516E~04</td></tr<<>	15.47	1,426	.3786E-04	15.47	1.525	.4516E~04
16.97 $1.988$ $.6898E-04$ $16.97$ $2.019$ $.6847E-04$ $17.72$ $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.22$ $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $3.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$ <td>16.22</td> <td>1.439</td> <td>.3450E-04</td> <td>16.22</td> <td>1.660</td> <td>.5023E-04</td>	16.22	1.439	.3450E-04	16.22	1.660	.5023E-04
17.72 $2.423$ $.8644E-04$ $17.72$ $2.321$ $.7879E-04$ $18.47$ $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.22$ $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $3.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ <tr< td=""><td>16.97</td><td>1.988</td><td>.6898E-04</td><td>16.97</td><td>2.019</td><td>.6847E-04</td></tr<>	16.97	1.988	.6898E-04	16.97	2.019	.6847E-04
18.47 $2.461$ $.7816E-04$ $18.47$ $2.491$ $.7839E-04$ $19.22$ $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $3.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$ <td>17.72</td> <td>2,423</td> <td>.8644E-04</td> <td>17,72</td> <td>2.321</td> <td>.7879E-04</td>	17.72	2,423	.8644E-04	17,72	2.321	.7879E-04
19.22 $2.421$ $.6718E-04$ $19.22$ $2.422$ $.6550E-04$ $19.97$ $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$	18.47	2.461	.7816E-04	18.47	2.491	.7839E-04
19.97 $2.308$ $.5470E-04$ $19.97$ $2.433$ $.5833E-04$ $20.72$ $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $3.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$	19.22	2.421	.6718E-04	19.22	2.422	.6550E-04
20.72 $2.225$ $.4532E-04$ $20.72$ $2.534$ $.5521E-04$ $21.47$ $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $3.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$	19.97	2,308	.5470E-04	19.97	2.433	.5833E-04
21.47 $4.880$ $.1269E-03$ $21.47$ $4.135$ $.9990E-04$ $22.22$ $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $3.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$	20.72	2.225	.4532E-04	20.72	2.534	.5521E-04
22.22 $3.520$ $.7293E-04$ $22.22$ $4.265$ $.9216E-04$ $22.97$ $1.343$ $.8784E-05$ $22.97$ $3.373$ $.5935E-04$ $23.72$ $1.829$ $.1876E-04$ $23.72$ $1.917$ $.2031E-04$ $24.47$ $2.267$ $.2538E-04$ $24.47$ $2.598$ $.3135E-04$ $25.22$ $1.523$ $.9311E-05$ $25.22$ $.423$ $.4210E-04$ $25.97$ $1.186$ $.2942E-05$ $25.97$ $2.018$ $.1566E-04$ $26.72$ $1.299$ $.4190E-05$ $26.72$ $1.399$ $.5436E-05$ $27.47$ $1.906$ $.1127E-04$ $27.47$ $1.229$ $.2779E-05$ $28.22$ $2.941$ $.2135E-04$ $28.22$ $1.116$ $.1256E-05$ $28.97$ $1.942$ $.9170E-05$ $28.97$ $1.105$ $.1009E-05$ $29.72$ $2.248$ $.1091E-04$ $29.72$ $1.104$ $.8928E-06$ $30.47$ $1.951$ $.7439E-05$ $30.47$ $1.708$ $.5391E-05$ $31.22$ $1.299$ $.2086E-05$ $31.22$ $1.320$ $.2169E-05$	21.47	4.880	.1269E-03	21.47	4.135	.9990E-04
22.971.343.8784E-0522.973.373.5935E-0423.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	22.22	3.520	.7293E-04	22.22	4.265	.9216E-04
23.721.829.1876E-0423.721.917.2031E-0424.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	22.97	1.343	.8784E-05	22.97	3.373	.5935E-04
24.472.267.2538E-0424.472.598.3135E-0425.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	23.72	1.829	.1876E-04	23.72	1.917	.2031E-04
25.221.523.9311E-0525.223.423.4210E-0425.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	24.47	2,267	.2538E-04	24.47	2.598	.3135E-04
25.971.186.2942E-0525.972.018.1566E-0426.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	25.22	1.523	.9311E-05	25.22	3.423	.4210E-04
26.721.299.4190E-0526.721.399.5436E-0527.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	25.97	1.186	.2942E-05	25.97	2.018	.1566E-04
27.471.906.1127E-0427.471.229.2779E-0528.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	26.72	1.299	.4190E-05	26.72	1.399	.5436E-05
28.222.941.2135E-0428.221.116.1256E-0528.971.942.9170E-0528.971.105.1009E-0529.722.248.1091E-0429.721.104.8928E-0630.471.951.7439E-0530.471.708.5391E-0531.221.299.2086E-0531.221.320.2169E-05	27.47	1.906	.1127E-04	27.47	1.229	.2779E-05
28.97       1.942       .9170E-05       28.97       1.105       .1009E-05         29.72       2.248       .1091E-04       29.72       1.104       .8928E-06         30.47       1.951       .7439E-05       30.47       1.708       .5391E-05         31.22       1.299       .2086E-05       31.22       1.320       .2169E-05	28.22	2,941	.2135E-04	28.22	1,116	1256E-05
29.72       2.248       .1091E-04       29.72       1.104       .8928E-06         30.47       1.951       .7439E-05       30.47       1.708       .5391E-05         31.22       1.299       .2086E-05       31.22       1.320       .2169E-05	28,97	1,942	.9170E-05	28.97	1,105	1009E-05
30.47         1.951         .7439E-05         30.47         1.708         .5391E-05           31.22         1.299         .2086E-05         31.22         1.320         .2169E-05	29.72	2.248	1091E-04	29.72	1,104	.8928E-06
31.22 1.299 .2086E-05 31.22 1.320 .2169E-05	30.47	1,951	.7439E-05	30 47	1,708	5391E-05
	31 22	1 299	2086E-05	21 22	1 320	21698-05
31,97 1,074 4590E-06 31,97 1,300 1813E-05	31 97	1 074	4590E-06	21 97	1,300	1813E-05
32.57 1.074 .4000 00 $31.57$ 1.000 .1015E 00 32.72 1.124 .6891E-06 32.72 1.232 1.245E-05	32.72	1 124	6891E-06	32 72	1 222	12458-05
33 47 $1.258$ $1.280  E - 05$ $33 47$ $1.200$ $9561  E - 06$	33.47	1,258	.1280E-05	33.47	1.200	.9561E~06

DATE 9/14/82 HNORM 7.22 KM TROP 16.60 KM INT BACKSCATTER .8 LEVELS 37	314E-03 SR**-1	DATE 9/2 HNORM TROP 1 INT BACKS LEVELS	3/82 6.02 KM 4.80 KM CATTER .7 37	777E-03 SR**-1
HEIGHT, SCATTERING KM RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, S KM	CATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
3.47 .925 4.22 .971 4.97 1.001 5.72 1.006 6.47 1.033 7.22 1.017 7.97 1.047 8.72 1.074 9.47 1.113 10.22 1.107 10.97 1.121 11.72 1.153 12.47 1.167 13.22 1.160 13.97 1.256 14.72 1.341 15.47 1.404 16.22 1.560 16.97 2.186 17.72 2.394 18.47 2.630 19.22 2.587 19.97 2.674 20.72 3.040 21.47 2.812 22.22 5.615 22.97 7.149 23.72 4.882 24.47 3.217 25.22 2.858 25.97 1.993 26.72 2.537 27.47 2.974 28.22 2.931	2745E-04 9747E-05 .4417E-06 .1685E-05 .8801E-05 .4169E-05 .1070E-04 .1560E-04 .1920E-04 .1920E-04 .2302E-04 .2302E-04 .2302E-04 .2302E-04 .2869E-04 .3400E-04 .3587E-04 .4431E-04 .8273E-04 .8493E-04 .8791E-04 .7541E-04 .6983E-04 .7472E-04 .5701E-04 .1293E-03 .1535E-03 .8610E-04 .4338E-04 .3235E-04 .1538E-04 .2119E-04 .2107E-04	4.37 5.12 5.87 6.62 7.37 8.12 8.87 9.62 10.37 11.12 11.87 12.62 13.37 14.12 14.87 15.62 16.37 17.12 17.87 18.62 19.37 20.12 20.87 21.62 22.37 23.12 23.87 24.62 25.37 26.12 26.87 27.62 28.37 29.12	1.032 .998 .997 1.016 1.029 1.064 1.079 1.051 1.061 1.152 1.204 1.234 1.278 1.487 1.439 1.629 1.859 2.181 2.680 2.869 2.732 2.675 2.832 4.932 3.842 3.842 3.841 4.825 3.977 4.118 3.778 2.564 2.002 1.989 1.607	.1089E-04 7525E-06 8624E-06 .4348E-05 .7088E-05 .1461E-04 .9859E-05 .1075E-04 .2453E-04 .2955E-04 .3060E-04 .5025E-04 .4066E-04 .5117E-04 .6215E-04 .9472E-04 .9472E-04 .9472E-04 .6674E-04 .6674E-04 .6424E-04 .1220E-03 .7799E-04 .6899E-04 .8149E-04 .5207E-04 .8149E-04 .5207E-04 .1175E-04 .1033E-04 .1033E-04 .5652E-05
28.972.44229.721.42030.471.807	.1401E-04 .3617E-05 .6194E-05	29.87 30.62 31.37	1.545 1.609 1.368	.4506E-05 .4474E-05 .2425E-05

DATE 10/ HNORM	/ 6/82 5.12 KM		DATE 10/ HNORM	/27/82 6.92 KM	
TROP	15.80 KM		TROP	10.90 KM	
INT BACH	KSCATTER .9	901E-03 SR**-1	INT BACK	SCATTER .	160E-02 SR**-1
LEVELS	35		LEVELS	32	
HEIGHT,	SCATTERING	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
3.62	1.167	.6127E-04	4.22	1.016	.5421E-05
4.37	1.037	.1241E-04	4.97	1.024	.7688E-05
5.12	1.020	.6115E-05	5.72	1.029	.8466E-05
5.87	1,032	.9400E-05	6.47	1.030	.8099E-05
6.62	1.049	.1317E-04	7.22	1.022	.5665E-05
7.37	1.105	.2603E-04	7.97	1.028	.6431E-05
8.12	1.114	.2617E-04	8.72	1.040	.8494E-05
8.87	1.136	.2880E-04	9.47	1.033	.6580E-05
9.62	1.163	.3179E-04	10.22	1.067	.1210E-04
10.37	1.166	.2974E-04	10,97	1.145	.2390E-04
11.12	1.199	.3263E-04	11.72	1,190	.2768E-04
11.87	1.264	.3897E-04	12.47	1.243	.3162E-04
12.62	1.396	.5279E-04	13.22	1.319	.3702E-04
13.37	1.410	.4930E-04	13.97	1.351	.3650E-04
14.12	1.479	.5141E-04	14.72	1.521	.4835E-04
14.87	1.522	.5013E-04	15.47	1.803	.6652E-04
15.62	1.609	.5210E-04	16.22	2.000	.7342E-04
16.37	1.817	.6141E-04	16.97	2,435	.9348E-04
17,12	2,540	.1018E-03	17.72	3.188	.1267E-03
17.87	2.700	.9896E-04	18.47	3.909	.1497E-03
18,62	2.963	.1007E03	19.22	4.733	.1707E-03
19.37	3.365	.1067E-03	19.97	6.297	.2154E-03
20.12	2.794	.7121E-04	20.72	8.190	.2599E-03
20.87	3.114	.7384E-04	21.47	7,953	.2236E-03
21.62	4.590	.1104E-03	22.22	9.204	.2347E-03
22.37	8.353	.1992E-03	22.97	7.261	.1568E-03
23.12	2.627	.3888E-04	23.72	5.746	.1040E-03
23.87	1.541	.1140E-04	24.47	2.603	.3097E-04
24.62	1.421	.7858E-05	25.22	1.469	.8002E-05
25.37	6.078	.8402E-04	25.97	1.388	.5853E-05
26.12	6.651	.8288E-04	26.72	1.375	.5007E-05
26.87	2.414	.1837E-04	27.47	1.197	.2325E-05
27,62	1,551	.6317E-05			
28.37	1.379	.3887E-05			
29.12	1,575	.5267E-05			

DATE 11, HNORM TROP INT BACK LEVELS	/16/82 5.27 KM 12.20 KM KSCATTER .] 35	135E-02 SR**-1	DATE 11/ HNORM TROP INT BACH	/29/82 5.12 KM 15.80 KM (SCATTER .2	273E-02 SR**-1
		AFRACAL			₰₣₽₳₢₳₮
RM KM	DATIENING DATIO	BYCKCCYMMED	REIGHI,	DATION	BACKCCAMMER
11M	KAIIO	(KM-SR)**-1	IXM	MIIU	(KM-SR)**-1
3.47	.965	1312E-04	4.22	<b>.</b> 956	1486E-04
4.22	.987	4538E-05	4.97	.989	3345E-05
4.97	.996	- <b>.</b> 1164E-05	5.72	1.023	.6662E-05
5.72	1.012	.3472E-05	6.47	1.053	.1419E-04
6.47	1.012	.3312E-05	7.22	1.066	.1627E-04
7.22	1.008	.2036E-05	7.97	1.081	.1860E-04
7.97	1.031	.7270E-05	8.72	1.104	.2196E-04
8.72	1.040	<b>.8682E-05</b>	9.47	1.107	.2066E-04
9.47	1.094	.1855E-04	10.22	1.119	.2116E-04
10.22	1.205	.3721E-04	10.97	1.103	.1687E-04
10.97	3.687	.4451E-03	11.72	1.141	.2063E-04
11.72	3.526	.3810E-03	12.47	1.174	.2311E-04
12.47	1.715	.9477E-04	13.22	1.192	.2290E-04
13.22	1.314	.3686E-04	13.97	1.251	.2699E-04
13.97	1.300	.3103E-04	14.72	1.332	.3179E-04
14.72	1.545	.4992E-04	15.47	1.535	.4572E-04
15.47	1.798	.6474E-04	16.22	2.005	.7595E-04
16,22	2.078	.7663E-04	16,97	2.210	.8071E-04
16.97	2.461	.9227E-04	17.72	2.977	.1165E-03
17.72	2.679	.9409E-04	18,47	4.296	.1716E-03
18.47	2.821	.9043E-04	19.22	6.637	.2577E-03
19.22	3.048	.9070E-04	19,97	9.140	.3255E-03
19.97	3.373	.9306E-04	20.72	14.266	.4674E-03
20.72	5.158	.1434E-03	21.47	20.144	.5931E-03
21.47	4.925	.1196E-03	22,22	22,598	.5885E-03
22.22	7.542	.1761E-03	22.97	21.314	.4897E-03
22.97	7.100	.1461E-03	23.72	11.078	.2167E-03
23.72	13.281	.2644E-03	24.47	5.130	.7825E-04
24.47	8.362	.1400E-03	25.22	3.517	.4198E-04
25.22	3.050	.3437E-04	25,97	3.140	.3144E-04
25.97	3.010	.3002E-04	26.72	2.423	.1843E-04
26.72	3.585	.3437E-04	27.47	2.570	.1795E-04
27.47	2,096	.1289E-04	28,22	3.518	.2540E-04
28.22	1.648	.6735E-05	28,97	3.446	.2178E-04
28,97	1.369	.3396E-05			

$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	DATE 12	/ 7/82		DATE 12/	14/82	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	HNORM	5.57 KM		HNORM	5.27 KM	
INT BACKSCATTER.160E-02SR**-1INT BACKSCATTER.210E-02SR**-1LEVELS40LEVELS40HEIGHT, SCATTERINGAEROSOLHEIGHT, SCATTERINGAEROSOLKMRATIOBACKSCATTER, (KM-SR)**-1KMRATIOBACKSCATTER, (KM-SR)**-14.22.979 $7408E-05$ 4.971.001.3207E-065.721.007.2034E-055.721.007.2954E-056.471.006.1545E+056.471.011.295E-057.221.027.6845E+057.221.020.4545E-057.221.027.6845E+057.971.020.4571E+058.721.112.2413B+048.721.021.4445E+059.471.118.2330E+049.471.029.5696E+0510.971.066.1409F+0410.971.063.8469E+0511.721.153.2254E+0411.721.073.1068E+0412.2471.176.2330E+0413.971.151.1601E+0414.721.438.4149E+0414.72.228.229E+0415.471.662.7291E+0415.471.764.1330E+0414.721.438.4149E+0414.72.228.229E+0415.471.661E+0413.221.101.1185E+0415.471.622.485.1123E+0316.27.76616.772.485.123E+0316.77.2286.239E+0317.723.103.1238E+03 <th>TROP</th> <th>16.40 KM</th> <th></th> <th>TROP</th> <th>17.50 KM</th> <th></th>	TROP	16.40 KM		TROP	17.50 KM	
LEVELS         40         LEVELS         40           HEIGHT, SCATTERING         AEROSOL         HEIGHT, SCATTERING         AEROSOL           KM         RATIO         BACKSCATTER, (KM-SR)**-1         RATIO         BACKSCATTER, (KM-SR)**-1           4.22         .979        7408E-05         4.22         .990        3548E-05           6.47         1.007         .2034E-05         5.72         1.007         .1257E-04           7.22         1.027         .6645E-05         7.97         1.020         .4571E-05           8.72         1.112         .2413E-04         8.72         1.021         .4445E-05           9.47         1.118         .2330E-04         9.47         1.029         .5696E-05           10.22         1.084         .1510E-04         10.22         1.043         .7668E-05           10.71         1.066         .409F-04         10.97         .053         .8469E-05           11.72         1.138         .2330E-04         12.47         1.078         .1013E-04           13.97         1.291         .364E-04         13.22         1.01         .1185E-04           14.72         1.438         .4149E-04         14.72         .285         .2704E-04	INT BAC	KSCATTER .	160E-02 SR**-1	INT BACK	SCATTER .	210E-02 SR**-1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LEVELS	40		LEVELS	40	
KMRATIOBACKSCATTER, (KM-SR)**-1KMRATIOBACKSCATTER, (KM-SR)**-1 $4.22$ .979 $7408E-05$ $4.22$ .990 $3548E-05$ $4.97$ .996 $1424E-05$ $4.97$ 1.001.3207E-06 $5.72$ 1.007.2034E-05 $5.72$ 1.007.1955E-05 $6.47$ 1.006.1545E-05 $6.47$ 1.001.2954E-05 $7.22$ 1.027.6845E-05 $7.22$ 1.020.4571E-05 $8.72$ 1.112.2413E-04 $8.72$ 1.021.4445E-05 $9.47$ 1.118.2330E-04 $9.47$ 1.023.8469E-05 $10.22$ 1.084.1510E-0410.221.043.7668E-05 $10.97$ 1.086.1409E-0410.971.053.8469E-05 $11.72$ 1.153.2254E-0411.721.073.1068E-04 $13.22$ 1.199.2361E-0413.221.101.1185E-04 $13.22$ 1.199.2361E-0413.221.101.1185E-04 $13.97$ 1.291.3084E-0413.971.551.1601E-04 $14.72$ 1.285.2704E-0415.471.484.4143E-04 $16.22$ 2.485.1123E-0316.221.767.5847E-04 $17.72$ 3.103.1238E-0317.723.265.1350E-03 $19.77$ 3.103.1238E-0319.9710.801.3960E-03 $20.72$ 7.384.2306E-0320.721.445.2938E-03 $19.97$ 5.461.1818	HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERING	AEROSOL
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			(KM-SR)**-1			(KM-SR)**-1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.22	.979	7408E-05	4.22	.990	3548E-05
5.72 $1.007$ $.2034E-05$ $5.72$ $1.007$ $.1955E-05$ $6.47$ $1.011$ $.2954E-05$ $7.22$ $1.027$ $.6845E-05$ $7.22$ $1.050$ $.1257E-04$ $7.97$ $1.035$ $.8162E-05$ $7.97$ $1.020$ $.4571E-05$ $8.72$ $1.112$ $.2413E-04$ $8.72$ $1.021$ $.4445E-05$ $9.47$ $1.118$ $.2330E-04$ $9.47$ $1.029$ $.5696E-05$ $10.22$ $1.084$ $.150E-04$ $10.22$ $1.043$ $.7668E-05$ $10.97$ $1.086$ $.1409E-04$ $10.97$ $1.053$ $.8469E-05$ $11.72$ $1.153$ $.2254E-04$ $11.72$ $1.073$ $.1068E-04$ $12.47$ $1.176$ $.2330E-04$ $12.47$ $1.078$ $.1013E-04$ $13.22$ $1.199$ $.2361E-04$ $13.22$ $1.101$ $.1185E-04$ $13.97$ $1.291$ $.3084E-04$ $13.97$ $1.151$ $.1601E-04$ $14.72$ $1.438$ $.4149E-04$ $14.72$ $.285$ $.2704E-04$ $16.97$ $2.583$ $.1058E-03$ $16.97$ $2.228$ $.8299E-04$ $17.72$ $3.103$ $.1238E-03$ $17.72$ $3.265$ $.1350E-03$ $18.47$ $3.764$ $.1433E-03$ $19.97$ $10.801$ $.3960E-03$ $20.72$ $7.384$ $.2306E-03$ $20.72$ $12.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $21.47$ $14.922$ $.4385E-03$ $22.97$ $5.992$ $.1229E-03$ $22.97$ <t< td=""><td>4.97</td><td>•996</td><td>1424E-05</td><td>4.97</td><td>1.001</td><td>.3207E-06</td></t<>	4.97	•996	1424E-05	4.97	1.001	.3207E-06
6.47 $1.006$ $.1545E-05$ $6.47$ $1.011$ $.2954E-05$ $7.22$ $1.027$ $.6845E-05$ $7.22$ $1.050$ $.1257E-04$ $7.97$ $1.011$ $.2471E-05$ $8.72$ $1.021$ $.4445E-05$ $8.72$ $1.112$ $.2413E-04$ $8.72$ $1.021$ $.4445E-05$ $9.47$ $1.118$ $.2330E-04$ $9.47$ $1.029$ $.5696E-05$ $10.22$ $1.084$ $.1510E-04$ $10.22$ $1.043$ $.7668E-05$ $10.97$ $1.086$ $.1409E-04$ $10.97$ $1.053$ $.8469E-05$ $11.72$ $1.153$ $.2254E-04$ $11.72$ $1.073$ $.1068E-04$ $12.47$ $1.176$ $.2330E-04$ $12.47$ $1.073$ $.1068E-04$ $13.97$ $1.291$ $.3084E-04$ $13.27$ $1.101$ $.1185E-04$ $13.97$ $1.291$ $.3084E-04$ $13.97$ $1.51$ $1.1601E-04$ $14.72$ $1.438$ $.4149E-04$ $14.72$ $1.285$ $.2704E-04$ $16.22$ $.2485$ $.1123E-03$ $16.22$ $1.767$ $.5847E-04$ $16.97$ $2.583$ $.1058E-03$ $16.77$ $.2228$ $.8299E-04$ $17.72$ $3.103$ $.1238E-03$ $17.72$ $3.265$ $.1350E-03$ $19.22$ $4.418$ $.1570E-03$ $19.27$ $7.445$ $.2938E-03$ $20.72$ $7.384$ $.2306E-03$ $20.72$ $12.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $20.72$ $12.819$ $.4246E-03$ $22$	5.72	1.007	.2034E-05	5.72	1.007	.1955E-05
7.221.027.6845E-057.221.050.1257E-047.971.035.8162E-057.971.021.4571E-058.721.112.2413E-048.721.021.4445E-059.471.118.2330E-049.471.029.5696E-0510.221.084.1510E-0410.221.043.7668E-0510.971.086.1409E-0410.971.053.8469E-0511.721.153.2254E-0411.721.073.1068E-0412.471.176.2330E-0412.471.078.1013E-0413.221.199.2361E-0413.221.101.1185E-0413.211.438.4149E-0414.721.285.2704E-0415.471.486.4129E-0415.471.484.4143E-0416.222.485.1123E-0316.221.767.5847E-0416.972.583.1058E-0316.972.228.8299E-0417.723.103.1238E-0317.723.265.1350E-0318.473.764.1433E-0318.475.177.2184E-0319.975.461.1818E-0319.9710.801.3960E-0320.727.384.2306E-0320.7212.819.4246E-0321.479.251.2618E-0321.4714.922.4385E-0322.975.992.1229E-0322.976.711.1397E-0323.7212.658.3243E-0425.22.3874.4920E-0425.22 <td< td=""><td>6.47</td><td>1.006</td><td>.1545E-05</td><td>6.47</td><td>1.011</td><td>.2954E-05</td></td<>	6.47	1.006	.1545E-05	6.47	1.011	.2954E-05
7.971.035.8162E-057.971.020.4571E-058.721.112.2413E-048.721.021.4445E-059.471.118.2330E-049.471.029.5696E-0510.221.084.1510E-0410.221.043.7668E-0510.971.086.1409E-0410.971.053.8469E-0511.721.153.2254E-0411.721.073.1068E-0413.221.199.2361E-0413.221.101.1185E-0413.971.291.3084E-0413.971.51.1601E-0414.721.438.4149E-0414.721.285.2704E-0415.471.862.7291E-0415.471.484.4143E-0416.222.485.1123E-0316.221.767.5847E-0416.972.583.1058E-0316.972.228.8299E-0417.723.103.1238E-0317.723.265.1350E-0319.975.461.1818E-0319.9710.801.3960E-0320.727.384.2306E-0320.727.445.2938E-0322.975.992.1229E-0322.976.711.1397E-0323.7212.655.2243E-0323.725.677.1016E-0322.975.992.1229E-0322.976.711.1397E-0323.7212.655.2243E-0323.725.677.1016E-0324.477.372.1237E-0527.47.538.1824E-0425.97	7.22	1.027	.6845E-05	7.22	1.050	.1257E-04
8.72 $1.112$ $.2413E-04$ $8.72$ $1.021$ $.4445E-05$ $9.47$ $1.118$ $.2330E-04$ $9.47$ $1.029$ $.5696E-05$ $10.22$ $1.084$ $.1510E-04$ $10.22$ $1.043$ $.7668E-05$ $10.97$ $1.086$ $.1409E-04$ $10.97$ $1.053$ $.8469E-05$ $11.72$ $1.153$ $.2254E-04$ $11.72$ $1.073$ $.1068E-04$ $12.47$ $1.176$ $.2330E-04$ $12.47$ $1.078$ $.1013E-04$ $13.22$ $1.199$ $.2361E-04$ $13.22$ $1.101$ $.1185E-04$ $13.97$ $1.291$ $.3084E-04$ $13.97$ $1.151$ $.1601E-04$ $14.72$ $1.438$ $.4149E-04$ $14.72$ $1.285$ $.2704E-04$ $15.47$ $1.862$ $.7291E-04$ $15.47$ $1.484$ $.4143E-04$ $16.22$ $2.485$ $.1123E-03$ $16.22$ $1.772$ $.3103$ $1238E-03$ $17.72$ $3.265$ $.1350E-03$ $18.47$ $3.764$ $.1433E-03$ $18.47$ $5.177$ $.2184E-03$ $19.97$ $5.461$ $.1818E-03$ $19.97$ $10.801$ $.3960E-03$ $20.72$ $7.384$ $.2306E-03$ $20.72$ $2.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $21.47$ $14.922$ $.4385E-03$ $22.22$ $12.635$ $.3243E-03$ $22.97$ $6.711$ $.1397E-03$ $22.22$ $12.635$ $.3243E-03$ $22.97$ $6.711$ $.1397E-03$ $22.22$ $12.635$ <td< td=""><td>7.97</td><td>1.035</td><td>.8162E-05</td><td>7.97</td><td>1.020</td><td>.4571E-05</td></td<>	7.97	1.035	.8162E-05	7.97	1.020	.4571E-05
9.471.118.2330E-049.471.029.5696E-0510.221.084.1510E-0410.221.043.7668E-0510.971.086.1409E-0410.971.053.8469E-0511.721.153.2254E-0411.721.073.1068E-0412.471.176.2330E-0412.471.078.1013E-0413.221.199.2361E-0413.221.101.1185E-0413.971.291.3084E-0413.971.151.1601E-0414.721.438.4149E-0414.721.285.2704E-0415.471.862.7291E-0415.471.484.4143E-0416.222.485.1123E-0316.221.767.5847E-0416.972.583.1058E-0316.972.228.8299E-0417.723.103.1238E-0317.723.265.1350E-0319.924.418.1570E-0319.227.445.2938E-0319.975.461.1818E-0319.9710.801.3960E-0320.727.384.2306E-0320.7212.819.4246E-0322.9212.635.3243E-0322.2216.011.416E-0322.975.992.1229E-0322.976.711.1397E-0323.7212.598.2544E-0323.725.677.1016E-0324.477.372.1237E-0324.473.229.4298E-0425.972.141.1731E-0425.97.124.4747E-0426.72 <td>8.72</td> <td>1.112</td> <td>.2413E-04</td> <td>8.72</td> <td>1.021</td> <td>.4445E-05</td>	8.72	1.112	.2413E-04	8.72	1.021	.4445E-05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9.47	1.118	.2330E-04	9.47	1.029	.5696E-05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.22	1.084	.1510E-04	10.22	1.043	.7668E-05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.97	1.086	.1409E-04	10.97	1.053	.8469E-05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.72	1.153	.2254E-04	11.72	1.073	.1068E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12.47	1,176	.2330E-04	12.47	1.078	.1013E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.22	1.199	.2361E-04	13.22	1.101	.1185E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.97	1.291	.3084E-04	13.97	1.151	.1601E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.72	1.438	.4149E-04	14.72	1,285	.2704E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15.47	1,862	.7291E-04	15.47	1.484	.4143E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.22	2.485	.1123E-03	16.22	1.767	.5847E-04
17.72 $3.103$ $.1238E-03$ $17.72$ $3.265$ $.1350E-03$ $18.47$ $3.764$ $.1433E-03$ $18.47$ $5.177$ $.2184E-03$ $19.22$ $4.418$ $.1570E-03$ $19.22$ $7.445$ $.2938E-03$ $19.97$ $5.461$ $.1818E-03$ $19.97$ $10.801$ $.3960E-03$ $20.72$ $7.384$ $.2306E-03$ $20.72$ $12.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $21.47$ $14.922$ $.4385E-03$ $22.22$ $12.635$ $.3243E-03$ $22.22$ $16.011$ $.4146E-03$ $22.97$ $5.992$ $.1229E-03$ $22.97$ $6.711$ $.1397E-03$ $23.72$ $12.598$ $.2544E-03$ $23.72$ $5.677$ $.1016E-03$ $24.47$ $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1638E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $1.638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $31.97$ $1.838$ $.4657E-05$ </td <td>16.97</td> <td>2.583</td> <td>.1058E-03</td> <td>16.97</td> <td>2.228</td> <td>.8299E-04</td>	16.97	2.583	.1058E-03	16.97	2.228	.8299E-04
18.47 $3.764$ $.1433E-03$ $18.47$ $5.177$ $.2184E-03$ $19.22$ $4.418$ $.1570E-03$ $19.22$ $7.445$ $.2938E-03$ $19.97$ $5.461$ $.1818E-03$ $19.97$ $10.801$ $.3960E-03$ $20.72$ $7.384$ $.2306E-03$ $20.72$ $12.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $21.47$ $14.922$ $.4385E-03$ $22.22$ $12.635$ $.3243E-03$ $22.22$ $16.011$ $.4146E-03$ $22.97$ $5.992$ $.1229E-03$ $22.97$ $6.711$ $.1397E-03$ $23.72$ $12.598$ $.2544E-03$ $23.72$ $5.677$ $.1016E-03$ $24.47$ $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $31.97$ $1.838$ $.4657E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ </td <td>17.72</td> <td>3.103</td> <td>.1238E-03</td> <td>17.72</td> <td>3.265</td> <td>.1350E-03</td>	17.72	3.103	.1238E-03	17.72	3.265	.1350E-03
19.224.418.1570E-0319.227.445.2938E-0319.975.461.1818E-0319.9710.801.3960E-0320.727.384.2306E-0320.7212.819.4246E-0321.479.251.2618E-0321.4714.922.4385E-0322.2212.635.3243E-0322.2216.011.4146E-0322.975.992.1229E-0322.976.711.1397E-0323.7212.598.2544E-0323.725.677.1016E-0324.477.372.1237E-0324.473.229.4298E-0425.222.437.2465E-0425.223.874.4920E-0425.972.141.1731E-0425.974.124.4747E-0426.721.836.1117E-0426.723.592.3487E-0428.221.532.5486E-0528.222.558.1638E-0428.971.558.5025E-0528.972.654.1541E-0429.721.467.3723E-0529.722.467.1211E-0430.471.413.2920E-0530.472.176.8313E-0531.221.417.2614E-0531.221.989.6196E-0531.971.413.2295E-0531.971.838.4657E-0532.721.476.2331E-0532.721.816.4000E-0533.471.510.2203E-0533.471.860.3716E-05	18.47	3.764	.1433E-03	18.47	5.177	.2184E-03
19.97 $5.461$ $.1818E-03$ $19.97$ $10.801$ $.3960E-03$ $20.72$ $7.384$ $.2306E-03$ $20.72$ $12.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $21.47$ $14.922$ $.4385E-03$ $22.22$ $12.635$ $.3243E-03$ $22.22$ $16.011$ $.4146E-03$ $22.97$ $5.992$ $.1229E-03$ $22.97$ $6.711$ $.1397E-03$ $23.72$ $12.598$ $.2544E-03$ $23.72$ $5.677$ $.1016E-03$ $24.47$ $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $31.47$ $1.838$ $.4657E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ </td <td>19.22</td> <td>4.418</td> <td>.1570E-03</td> <td>19.22</td> <td>7.445</td> <td>.2938E-03</td>	19.22	4.418	.1570E-03	19.22	7.445	.2938E-03
20.72 $7.384$ $.2306E-03$ $20.72$ $12.819$ $.4246E-03$ $21.47$ $9.251$ $.2618E-03$ $21.47$ $14.922$ $.4385E-03$ $22.22$ $12.635$ $.3243E-03$ $22.22$ $16.011$ $.4146E-03$ $22.97$ $5.992$ $.1229E-03$ $22.97$ $6.711$ $.1397E-03$ $23.72$ $12.598$ $.2544E-03$ $23.72$ $5.677$ $.1016E-03$ $24.47$ $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $33.47$ $1.860$ $.3716E-05$	19.97	5,461	.1818E-03	19.97	10.801	.3960E-03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20.72	7.384	.2306E-03	20.72	12.819	.4246E-03
22.22 $12.635$ $.3243E-03$ $22.22$ $16.011$ $.4146E-03$ $22.97$ $5.992$ $.1229E-03$ $22.97$ $6.711$ $.1397E-03$ $23.72$ $12.598$ $.2544E-03$ $23.72$ $5.677$ $.1016E-03$ $24.47$ $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $29.72$ $2.467$ $.1211E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $32.72$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $33.47$ $1.510$ $.2203E-05$ $33.47$ $1.860$ $.3716E-05$	21.47	9.251	.2618E-03	21.47	14.922	.4385E-03
22.97 $5.992$ $.1229E-03$ $22.97$ $6.711$ $.1397E-03$ $23.72$ $12.598$ $.2544E-03$ $23.72$ $5.677$ $.1016E-03$ $24.47$ $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $32.47$ $1.510$ $.2203E-05$ $33.47$ $1.860$ $.3716E-05$	22.22	12.635	.3243E-03	22.22	16,011	.4146E-03
23.7212.598.2544E-0323.725.677.1016E-0324.477.372.1237E-0324.473.229.4298E-0425.222.437.2465E-0425.223.874.4920E-0425.972.141.1731E-0425.974.124.4747E-0426.721.836.1117E-0426.723.592.3487E-0427.471.535.6297E-0527.472.538.1824E-0428.221.532.5486E-0528.222.558.1638E-0428.971.558.5025E-0528.972.654.1541E-0429.721.467.3723E-0529.722.467.1211E-0430.471.413.2920E-0530.472.176.8313E-0531.221.417.2614E-0531.221.989.6196E-0531.971.413.2295E-0532.721.816.4000E-0532.721.476.2331E-0532.721.816.4000E-0533.471.510.2203E-0533.471.8603716E-05	22.97	5,992	.1229E-03	22.97	6.711	.1397E-03
24.47 $7.372$ $.1237E-03$ $24.47$ $3.229$ $.4298E-04$ $25.22$ $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $32.72$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$	23.72	12,598	.2544E-03	23.72	5,677	.1016E-03
25.22 $2.437$ $.2465E-04$ $25.22$ $3.874$ $.4920E-04$ $25.97$ $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $29.72$ $2.467$ $.1211E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $32.72$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $33.47$ $1.510$ $.2203E-05$ $33.47$ $1.860$ $.3716E-05$	24.47	7.372	.1237E-03	24.47	3.229	.4298E-04
25.97 $2.141$ $.1731E-04$ $25.97$ $4.124$ $.4747E-04$ $26.72$ $1.836$ $.1117E-04$ $26.72$ $3.592$ $.3487E-04$ $27.47$ $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $32.72$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $33.47$ $1.510$ $.2203E-05$ $33.47$ $1.860$ $.3716E-05$	25.22	2.437	.2465E-04	25.22	3.874	.4920E-04
26.72       1.836       .1117E-04       26.72       3.592       .3487E-04         27.47       1.535       .6297E-05       27.47       2.538       .1824E-04         28.22       1.532       .5486E-05       28.22       2.558       .1638E-04         28.97       1.558       .5025E-05       28.97       2.654       .1541E-04         29.72       1.467       .3723E-05       29.72       2.467       .1211E-04         30.47       1.413       .2920E-05       30.47       2.176       .8313E-05         31.22       1.417       .2614E-05       31.22       1.989       .6196E-05         31.97       1.413       .2295E-05       31.97       1.838       .4657E-05         32.72       1.476       .2331E-05       32.72       1.816       .4000E-05         33.47       1.510       .2203E-05       33.47       1.860       3716E-05	25,97	2.141	.1731E-04	25.97	4.124	4747E-04
27.47 $1.535$ $.6297E-05$ $27.47$ $2.538$ $.1824E-04$ $28.22$ $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $32.72$ $1.816$ $.4000E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $33.47$ $1.510$ $.2203E-05$ $33.47$ $1.860$ $.3716E-05$	26.72	1.836	.1117E-04	26.72	3.592	3487E-04
28.22 $1.532$ $.5486E-05$ $28.22$ $2.558$ $.1638E-04$ $28.97$ $1.558$ $.5025E-05$ $28.97$ $2.654$ $.1541E-04$ $29.72$ $1.467$ $.3723E-05$ $29.72$ $2.467$ $.1211E-04$ $30.47$ $1.413$ $.2920E-05$ $30.47$ $2.176$ $.8313E-05$ $31.22$ $1.417$ $.2614E-05$ $31.22$ $1.989$ $.6196E-05$ $31.97$ $1.413$ $.2295E-05$ $31.97$ $1.838$ $.4657E-05$ $32.72$ $1.476$ $.2331E-05$ $32.72$ $1.816$ $.4000E-05$ $33.47$ $1.510$ $.2203E-05$ $33.47$ $1.860$ $.3716E-05$	27.47	1.535	.6297E-05	27.47	2.538	1824E-04
28.97       1.558       .5025E-05       28.97       2.654       .1541E-04         29.72       1.467       .3723E-05       29.72       2.467       .1211E-04         30.47       1.413       .2920E-05       30.47       2.176       .8313E-05         31.22       1.417       .2614E-05       31.22       1.989       .6196E-05         31.97       1.413       .2295E-05       31.97       1.838       .4657E-05         32.72       1.476       .2331E-05       32.72       1.816       .4000E-05         33.47       1.510       .2203E-05       33.47       1.860       3716E-05	28.22	1,532	5486E-05	28 22	2 558	1638E-04
29.72       1.467       .3723E-05       29.72       2.467       .1211E-04         30.47       1.413       .2920E-05       30.47       2.176       .8313E-05         31.22       1.417       .2614E-05       31.22       1.989       .6196E-05         31.97       1.413       .2295E-05       31.97       1.838       .4657E-05         32.72       1.476       .2331E-05       32.72       1.816       .4000E-05         33.47       1.510       .2203E-05       33.47       1.860       3716E-05	28 97	1 558	.5025E-05	28.97	2.654	1541E-04
30.47       1.413       .2920E-05       30.47       2.176       .8313E-05         31.22       1.417       .2614E-05       31.22       1.989       .6196E-05         31.97       1.413       .2295E-05       31.97       1.838       .4657E-05         32.72       1.476       .2331E-05       32.72       1.816       .4000E-05         33.47       1.510       .2203E-05       33.47       1.860       3716E-05	29.72	1 467	3723E-05	29.72	2.054	12115-04
31.22       1.417       .2614E-05       31.22       1.989       .6196E-05         31.97       1.413       .2295E-05       31.97       1.838       .4657E-05         32.72       1.476       .2331E-05       32.72       1.816       .4000E-05         33.47       1.510       .2203E-05       33.47       1.860       .3716E-05	30 47	1 413	2920E-05	30 47	2,176	83138-05
31.97       1.413       .2295E-05       31.97       1.838       .4657E-05         32.72       1.476       .2331E-05       32.72       1.816       .4000E-05         33.47       1.510       .2203E-05       33.47       1.860       .3716E-05	30.17	1.417	.2614E-05	31 22	1 989	6196F-05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	31.07	1 412	2295E-05	31.07	1 838	4657F-05
33.47 1.510 .2203E-05 33.47 1.860 3716E-05	32 72	1 476	2331E-05	32.72	1 816	4000-05
	33.47	1,510	.2203E-05	33.47	1,860	3716E-05

ň

DATE 1/ 3/83 HNORM 5.12 H TROP 11.80 H INT BACKSCATTEN LEVELS 35	KM KM R .245E-02 SR**-	DATE 1, HNORM TROP 1 INT BACI LEVELS	/13/83 5.72 KM 9.30 KM KSCATTER 35	.266E-02 SR**-1
HEIGHT, SCATTE KM RAT	RING AEROSOL IO BACKSCATTER (KM-SR)**-3	HEIGHT, , KM	SCATTERIN RATIO	G AEROSOL BACKSCATTER, (KM-SR)**-1
4.22.9 $4.97$ .9 $5.72$ $1.0$ $6.47$ $1.0$ $7.22$ $1.0$ $7.97$ $1.0$ $8.72$ $1.1$ $9.47$ $1.1$ $10.22$ $1.1$ $10.97$ $1.1$ $11.72$ $1.2$ $12.47$ $1.2$ $13.22$ $1.3$ $13.97$ $1.5$ $14.72$ $2.2$ $15.47$ $2.5$ $16.22$ $2.6$ $16.97$ $3.7$ $17.72$ $6.2$ $18.47$ $7.7$ $19.22$ $9.3$ $19.97$ $9.2$ $20.72$ $10.8$ $21.47$ $13.4$ $22.297$ $4.3$ $23.72$ $3.4$ $24.47$ $3.6$ $25.22$ $3.4$ $25.97$ $2.4$ $26.72$ $2.6$	80      7179E-05         95      1559E-05         31       .3295E-05         32       .8714E-05         30       .7617E-05         50       .1169E-04         16       .2492E-04         03       .2023E-04         70       .3023E-04         73       .2757E-04         32       .3300E-04         67       .3362E-04         96       .4444E-04         96       .4444E-04         96       .4444E-04         97       .3362E-04         98       .5937E-04         99       .1172E-03         11       .1219E-03         121       .1219E-03         13       .1723E-03         22       .3357E-04         13       .1723E-03         24       .365       .3662E-03         290       .3204E-03       .3399E-03         380       .3399E-03       .32         380       .3399E-03       .32         355       .3766E-03       .373         2139E-04       .10       .5083E-04         410       .5083E-04       .4948E-04	$\begin{array}{c} 4.22\\ 4.97\\ 5.72\\ 6.47\\ 7.22\\ 7.97\\ 8.72\\ 9.47\\ 10.22\\ 10.97\\ 11.72\\ 12.47\\ 13.22\\ 13.97\\ 14.72\\ 15.47\\ 16.22\\ 16.97\\ 17.72\\ 18.47\\ 19.22\\ 19.97\\ 20.72\\ 21.47\\ 19.97\\ 20.72\\ 21.47\\ 22.22\\ 22.97\\ 23.72\\ 24.47\\ 25.22\\ 25.97\\ 26.72\end{array}$	.965 .994 1.007 1.023 1.015 1.108 1.301 1.550 1.601 1.683 1.850 2.078 2.534 2.653 2.735 3.380 3.628 4.734 5.335 7.599 8.727 7.731 8.281 7.091 4.835 3.073 2.800 2.604 2.770 2.799 2.787	1256E-04 2047E-05 .2007E-05 .6503E-05 .3797E-05 .2465E-04 .6265E-04 .1019E-03 .9900E-04 .1010E-03 .1126E-03 .1277E-03 .1617E-03 .1617E-03 .1664E-03 .1813E-03 .2320E-03 .2424E-03 .2320E-03 .2424E-03 .3288E-03 .3288E-03 .32609E-03 .2609E-03 .2520E-03 .1053E-03 .5018E-04 .3032E-04 .2965E-04 .2670E-04 .2355E-04
27.471.828.221.728.971.429.721.4	330       .9448E-05         707       .7150E-05         471       .4231E-05         416       .3322E-05	27.47 28.22 28.97 29.72	2.344 1.692 1.394 1.292	.1577E-04 .7223E-05 .3647E-05 .2386E-05

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DATE 1,	/18/83		DATE 3/	2/83	
HNORM	5.12 KM		HNORM	6.02 KM	
TROP	9.20 KM		TROP 1	0.20 KM	
INT BACK	KSCATTER .2	63E-02 SR**-1	INT BACKS	CATTER	.270E-02 SR**-1
LEVELS	34		LEVELS	39	
HEIGHT,	SCATTERING	AEROSOL	HEIGHT, S	CATTERIN	G AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1,105	3774E-04	4 22	949	- 1752E-04
4,97	1.028	9114E-05	4 97	958	- 1345E-04
5.72	1 045	13558-04	5 72	996	~ 1119F-05
6 47	1 071	1911E-04	6 47	1 015	3971F-05
7 22	1 073	1799E-04	7 22	1 032	8087F-05
7 97	1 133	2956F-01	7.22	1 0/1	-0007E 05
8 72	1 201	-2900E-04		1.041	.94946-09
0.72	1 204	.0000E-04	0,72	1.003	.10145-04 1000p 04
2.47	1,324	· 2017E-04	9.47	1.093	.18026-04
10.22	1.430	./UIZE~U4	10.22		.29/8E-04
10.97	1.295	.42/3E-04	10.97	1.856	.1310E-03
11.72	1.331	.4309E-04	11.72	2.290	.1/6/E-U3
12.47	1.426	.49998-04	12.4/	2.687	.2057E-03
13.22	1,602	.6419E-04	13.22	3.267	.2464E-03
13.97	1.628	.6022E-04	13,97	3.314	.2242E-03
14.72	1.901	.7783E-04	14.72	2.995	.1722E-03
15.47	3.151	.1667E-03	15.47	3.536	.1979E-03
16.22	5.869	.3337E-03	16.22	4.598	.2543E-03
16.97	7.778	.4134E-03	16.97	6.202	.3267E-03
17.72	8.315	.3952E-03	17.72	8.299	.4074E-03
18.47	9.329	.4040E-03	18.47	7.963	.3452E-03
19.22	9.329	.3613E-03	19.22	7.704	.2946E-03
19.97	8.401	.2836E-03	19.97	8.516	.2927E-03
20.72	6.597	.1890E-03	20.72	9.459	.2916E-03
21.47	5.811	.1443E-03	21.47	4.381	.1028E-03
22.22	4.883	.1035E-03	22.22	3.068	.5553E←04
22.97	3.833	.6710E-04	22.97	2.793	.4247E-04
23.72	3.106	.4432E-04	23.72	2.256	.2627E-04
24.47	2.951	.3632E-04	24.47	2.097	.2051E-04
25.22	2,778	.2928E-04	25.22	1.851	.1413E-04
25.97	2.318	.1920E-04	25.97	2.017	1486E-04
26.72	2 092	1419E~04	26 72	2 000	1302E-04
27 47	1 919	1067E-04	20.12	1 882	1017E-04
28.22	1 443	4558E-05	27.17	1 762	77868-05
28 97	1 200	2572F-05	20.22	1 720	6578F-05
40.71	26026	.33725-03	20.31	1 620	5025±-05
			20.12	1 200	11020 <u>5-00</u>
			30.4/ 21 22	1.020 1.751	14403B-03 1670B 05
			J⊥.22 21 07	1,701 1,701	401CE 05
			31.31	1.700	.40T0R-02
			32.12	1./22	·2228E-02

DATE 3/	/ 3/83		DATE 3/	/22/83	
HNORM	7.82 KM		HNORM	8.27 KM	
TROP	10.70 KM		TROP	10.40 KM	
INT BACH	KSCATTER	.248E-02 SR**-1	INT BACK	SCATTER .	244E-02 SR**-1
LEVELS	39		LEVELS	36	
HEIGHT,	SCATTERIN	G AEROSOL	HEI GHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
		-			
4,22	1.036	.1275E-04	4.22	1.079	.2775E-04
4.97	1.065	.2121E-04	4.97	1.059	.1870E-04
5.72	1.112	.3371E-04	5.72	.990	2927E-05
6.47	1.034	.9469E-05	6.47	1.015	.4049E-05
7.22	1.013	.3216E-05	7.22	1,008	.1939E-05
7.97	1.006	.1364E-05	7,97	1.002	.4563E-06
8.72	1.038	8066E-05	8.72	1.001	2509E-06
9.47	1.084	1641E-04	9.47	1,207	3954E-04
10 22	1 132	2346E-04	10 22	1 414	7111E-04
10.97	1 404	6408E-04	10.97	1 775	1165E-03
11 72	1 724	10178-03	11 72	2 299	17428-03
$12 \ 47$	2 145	14238-03	12.72	2.277	21738-03
13 22	2.145	18058-03	13 22	3 059	22008-03
13.22	2.000	1881 - 03	13.22	3,000	2005 03 2096F-03
13.57	2.001	1700-03	10.07	3,170	20005 00 2247F-02
14.12	2.913	1700E-03	14.72	J.720	.2347B 03
10.47	3.204	.1/01E-US	10.47	4.105	22220E-03
16.22	4.202	•2313E-03	10,22	4.034 E 755	,2001E-00
10.9/	5./10	.290/8-03	10.3/	5.700	-2000E-US
1/./2	7.392	· 3596E-03	1/./2	J.194	.22096-03
10.4/	7.650	.33436-03	10.47	4.030	.1010E-03
19.22	7.568	-2860E-03	19.22	4.869	.16326-03
19.97	7.232	.24228-03	19.97	5.731	.1/80E-03
20.72	7.999	.2414E-U3	20.72	6.011	.16865-03
21.4/	4.440	.1039E-03	21.47	6.792	.1/59E-03
22.22	2.812	.4851E-04	22.22	6.410	.1463E-U3
22.97	2.465	.34//E-04	22.97	2.645	.3944E-04
23.72	1.920	.1936E-04	23.72	1.721	.1533E-04
24.47	1.856	.1609E-04	24.4/	1.360	.6788E-05
25.22	1.602	.1010E-04	25.22	1.373	.6226E-05
25.97	1.825	.1216E-04	25.97	1.260	.3846E-05
26.72	1.872	.1135E-04	26.72	1.096	.1256E-05
27.47	1.714	.8222E-05	27.47	1.076	.8839E-06
28.22	1.590	.6020E-05	28.22	1.041	.4249E-06
28.97	1.484	.4366E-05	28.97	1.037	.3324E-06
29.72	1.565	.4508E-05	29.72	1.035	.2781E-06
30.47	1.607	.4259E-05	30.47	.956	3157E-06
31.22	1.559	.3485E-05			
31.97	1.634	.3530E-05			
32.72	1.803	.3998E-05			

DATE 6/ HNORM	22/83 8.12 KM		DATE 6/. HNORM	23/83 5.12 км	·	
TROP	13.20 KM		TROP	13.40 KM		
INT BACK	SCATTER	130E-02 SE**-1	INT BACK	SCATTER .	981E-03 SR**-1	
LEVELS	39	1002 02 08 1	LEVELS	36		
	0,0			50		
HEI GHT,	SCATTERING	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL	
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,	
		(KM-SR)**-1			(KM-SR)**-1	
					•	
4.22	1.052	.1791E-04	4.22	.994	1971E-05	
4.97	1.107	.3368E-04	4.97	1.006	.2016E-05	
5.72	1.146	.4273E-04	5.72	1.055	.1617E-04	
6.47	1.052	.1419E-04	6.47	1.122	.3304E-04	
7.22	1.088	.2212E-04	7.22	1.137	.3434E-04	
7.97	1.020	.4531E-05	7.97	1.189	.4365E-04	
8.72	1.427	.9137E-04	8.72	1.081	.1739E-04	
9.47	9.492	.1679E-02	9.47	1.077	.1517E-04	
10.22	11.280	.1864E-02	10.22	1.111	.2015E-04	
10.97	5,341	.7121E-03	10,97	1,260	.4312E-04	
11.72	2.325	.1962E-03	11.72	1.408	.6160E-04	
12.47	1.838	.1130E-03	12.47	1,181	.2491E-04	
13.22	2.102	.1344E-03	13.22	1.679	.8498E-04	
13.97	2.098	.1189E-03	13.97	1.644	.7108E-04	
14.72	1,973	.9575E-04	14.72	1.803	.7877E-04	
15,47	2,259	.1106E-03	15.47	1.849	.7451E-04	
16.22	2,950	.1527E-03	16.22	2.657	.1288E-03	
16.97	3.538	.1767E-03	16.97	3,156	.1487E-03	
17.72	4.055	-1885E-03	17.72	3,611	.1589E-03	
18.47	4.643	.1978E-03	18,47	3,935	.1566E-03	
19.22	4.530	.1655E-03	19.22	3,670	.1247E-03	
19.97	4.318	.1373E-03	19,97	3,675	.1100E-03	
20.72	4,003	.1097E-03	20.72	3.380	.8610E-04	
21.47	3.096	.6770E-04	21.47	2.349	.4308E-04	
22.22	2.272	.3635E-04	22.22	2.036	.2921E-04	
22,97	2,122	.2836E-04	22.97	1.835	.2081E-04	
23.72	1,571	.1274E-04	23.72	1,412	9067E-05	
24.47	1.465	.9146E-05	24.47	1,404	.7882E-05	
25.22	1.567	.9900E-05	25.22	1.548	9574E-05	
25.97	1.797	.1233E-04	25.97	1,699	-1086E-04	
26.72	1,803	.1101E-04	26.72	1,625	.8603E-05	
27.47	1.584	.7141E-05	27.47	1.379	.4669E-05	
28.22	1,412	4507E-05	28-22	1,219	.2386E-05	
28,97	1.316	.3093E-05	28.97	1,156	.1504E-05	
20 72	1 220	2803E-05	29.72	1,151	1294E-05	
27.17.	1.3/1					
30.47	1,282	.2189E-05	30.47	1,136	.1041E-05	
30.47	1.282 1.282 1.284	.2189E-05	30.47	1.136	.1041E-05	
30.47 31.22 31.97	1.320 1.282 1.284 1.292	.2189E-05 .1953E-05 .1785E-05	30.47	1.136	.1041E-05	

DATE 6, HNORM TROP INT BACH LEVELS	/26/83 5.57 KM 14.90 KM KSCATTER . 38	953E-03 SR**-1	DATE 6/ HNORM TROP INT BACH LEVELS	/27/83 7.07 KM 15.80 KM KSCATTER .8 33	384E-03 SR**-1
HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.97 20.72 21.47 22.22 23.72 24.47 25.22 24.47 25.22 25.97 23.72 25.97 25.72 27.47 28.97 29.72 30.47 31.22	$\begin{array}{c} 1.207\\ .977\\ 1.052\\ 1.122\\ 1.083\\ 1.073\\ 1.045\\ 1.074\\ 1.104\\ 1.136\\ 1.173\\ 1.200\\ 1.236\\ 1.253\\ 1.227\\ 1.486\\ 2.856\\ 3.422\\ 4.003\\ 4.233\\ 4.113\\ 3.613\\ 3.392\\ 2.489\\ 2.366\\ 2.051\\ 2.455\\ 2.144\\ 1.740\\ 1.594\\ 1.605\\ 1.476\\ 1.301\\ 1.276\\ 1.293\\ 1.253\\ 1.241\\ \end{array}$	.7088E-04 7406E-05 .1527E-04 .3300E-04 .2071E-04 .1674E-04 .9567E-05 .1457E-04 .1884E-04 .2255E-04 .2616E-04 .2756E-04 .2941E-04 .2807E-04 .2807E-04 .2270E-04 .1440E-03 .1659E-03 .1818E-03 .1731E-03 .1659E-03 .1818E-03 .1731E-03 .1467E-03 .1078E-03 .8639E-04 .2638E-04 .3243E-04 .2264E-04 .300E-04 .9279E-05 .8392E-05 .5859E-05 .3293E-05 .2701E-05 .2568E-05 .1984E-05 .1676E-05	4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.22 19.97 20.72 21.47 22.22 22.97 23.72 24.47 25.22 25.97 26.72 27.47 28.22	1.157 1.054 1.072 1.015 1.036 1.051 1.061 1.148 1.206 1.249 1.324 1.382 1.324 1.382 1.340 2.188 3.339 4.134 4.352 4.186 3.802 3.721 2.432 2.169 2.286 2.250 1.921 1.609 1.512 1.465 1.345 1.271	.5345E-04 .3308E-04 .1567E-04 .1961E-04 .3803E-05 .8280E-05 .1086E-04 .1387E-04 .1099E-04 .2451E-04 .3131E-04 .3447E-04 .4007E-04 .4267E-04 .2352E-04 .3050E-04 .3050E-04 .1611E-03 .1891E-03 .1777E-03 .1497E-03 .1157E-03 .9878E-04 .326E-04 .3244E-04 .3244E-04 .2795E-04 .1831E-04 .1075E-04 .7967E-05 .6390E-05 .4211E-05 .2966E-05
31.97	1.239	.1471E-05			

DATE 6, HNORM TROP INT BACI LEVELS	/30/83 9.17 KM 14.10 KM KSCATTER .7 35	77E-03 SR**-1	DATE 7/ 7/83 HNORM 27.17 KM TROP 15.30 KM INT BACKSCATTER .792E-03 SR**-1 LEVELS 35				
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL		
KM	RATIO	BACKSCATTER,	КМ	RATIO	BACKSCATTER,		
		(KM-SR)**-1			(KM-SR)**-1		
4.22	1,242	.8226E-04	4.22	1.024	.8137E-05		
4.97	1,129	.4066E-04	4.97	1.023	.7486E-05		
5.72	1.100	.2921E-04	5.72	1.088	.2613E-04		
6.47	1.069	.1865E-04	6.47	1.104	.2870E-04		
7.22	1.051	.1265E-04	7.22	1.089	.2265E-04		
7.97	1.052	.1182E-04	7.97	1.156	.3658E-04		
8.72	1.046	.9658E-05	8.72	1.597	.1290E-03		
9.47	1.030	.5853E-05	9.47	2,199	.2347E-03		
10.22	1.109	<b>.</b> 1957 <b>E</b> -04	10.22	2.118	.1995E-03		
10.97	1.091	.1511E-04	10.97	1.938	.1529E-03		
11.72	1,179	.2705E-04	11.72	2.291	.1919E-03		
12.47	1.174	.2404E-04	12.47	2.621	.2169E-03		
13.22	1.086	.1086E-04	13.22	2.724	.2054E-03		
13,97	1.018	.2073E-05	13.97	1.798	.8466E-04		
14.72	1.109	,1095E-04	14.72	1.412	.3949E-04		
15.47	1.317	.2855E-04	15.47	1.735	.6321E-04		
16.22	1.884	.7038E-04	16.22	2.888	.1424E-03		
16.97	2.226	.8601E-04	16.97	3.288	.1551E-03		
17.72	3.004	.1241E-03	17.72	3.258	.1343E-03		
18.47	3.772	.1514E-03	18.47	3.464	.1292E-03		
19.22	4.171	.1512E-03	19.22	3.357	.1095E-03		
19.97	3.964	.1233E-03	19.97	3.489	.1021E-03		
20.72	3.448	.8992E-04	20.72	3.439	.8834E-04		
21.47	2.636	.5300E-04	21.47	2.639	.5254E-04		
22.22	2.146	.3271E-04	22.22	1.788	.2236E-04		
22,97	1.819	.2058E-04	22,97	1.796	.2000E-04		
23.72	1.982	.2176E-04	23.72	1.906	.2014E-04		
24.47	1,976	.1910E-04	24.47	1.584	.1151E-04		
25.22	1.776	.1351E-04	25.22	1,265	.4630E-05		
25,97	1.900	.1394E-04	25.97	1.141	.2189E-05		
26.72	1.740	.1020E-04	26.72	1.055	.7575E-06		
27.47	1.279	.3419E-05	27.47	1.034	.4175E-06		
28.22	1.181	.1976E-05	28.22	1.030	.3283E-06		
28,97	1.155	.1508E-05	28.97	.950	4860E-06		
29.72	1.095	.8233E-06	29.72	.947	4529E-06		

DATE 7/	/26/83		DATE 7/3	27/83	
HNORM	5.42 KM		HNORM	7.07 KM	
TROP	14.60 KM		TROP	15.40 KM	
INT BACH	SCATTER .9	953E-03 SR**-1	INT BACK	SCATTER .9	01E-03 SR**-1
LEVELS	40		LEVELS	36	
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERING	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.035	.1188E-04	4.22	1.137	.4693E-04
4.97	1.011	.3610E-05	4.97	1.100	.3157E-04
5.72	1.021	.6082E-05	5.72	1.098	.2869E-04
6.47	1.077	.2085E-04	6.47	1.031	.8277E-05
7 22	1,106	2653E-04	7.22	1,005	1300E-05
7 97	1 093	2151E-04	7 97	1.014	3318E-05
8 72	1 1 2 2	28308-04	8 72	1 069	1460E-04
9.17	1 160	2050D 04 2167E-04	9.17	1 032	63738-05
10 22	1.005	.JIO/E-04	10.22	1 092	1/00F_0/
10.22	1.095	,1/10E-04	10.22	1.003	.14770 04
10.37	1.404	,/903E-04	10.37	1.004	1624E 04
11./2	2.023	.14045-03	11.72	1.107	1034B-04
12.47	2.088	.1401E-03	12.47	1.121	.10008-04
13.22	1.334	.3900E-04	13.22	1.086	.1054E-04
13.97	1.415	.4389E-04	13.97	1.155	.1/028-04
14.72	1.571	.5476E-04	14.72	1.372	.3641E-04
15.47	1.905	.7712E-04	15.47	2.066	.9286E-04
16.22	2.485	.1137E-03	16,22	2.508	.1160E-03
16.97	3.004	.1362E-03	16.97	3.333	.1604E-03
17.72	3.512	.1506E-03	17.72	3.841	.1720E-03
18.47	3.751	.1449E-03	18.47	3.956	.1574E-03
19.22	3.641	.1231E-03	19.22	3.881	.1351E-03
19.97	3.375	.9788E-04	19.97	3.529	.1046E-03
20.72	3.019	.7316E-04	20.72	3.136	.7795E-04
21.47	2.629	.5219E-04	21.47	2.866	.6020E-04
22.22	2.555	.4411E-04	22.22	2,895	.5407E-04
22.97	2.189	.2989E-04	22.97	2.314	.3316E-04
23.72	1.819	.1824E-04	23.72	1.845	.1887E-04
24.47	1.568	.1118E-04	24,47	1.557	.110)E-04
25.22	1.406	7053E-05	25.22	1.388	.6806E-05
25 97	1 384	5941E-05	25 97	1 575	8935E-05
26 72	1 589	8118E-05	26 72	1 524	7227E-05
20.72	1 /19	5156F-05	20.12	1 333	40936-05
2/.4/	1 207	2255F-05	2/.4/	1 201	2204F-05
20.22	1 272	.3233E-05	20.22	1 226	2204B 05
20,71 10 71	1 250	.20046-00 0170p 05	20.21	1 162	1120E-05
27.12	עכ2.ד כבו נ	.21/05-UJ	23.12	נסג.ב לסו ו	,1420B-00 140Ev-05
3U.4/ 21 22	1.1/2	10000-05	30.4/	1.102	.1403E-03
31.22	1.10U	.12375-05			
31.9/	1.160	.901/E-06			
32.12	1.124	.6/8/E-06			
33.47	1.098	.4781E-06			

DATE 8/	/15/83		DATE 8/2	25/83	
HNORM	7.97 KM		HNORM	5.87 KM	
TROP	15.10 KM		TROP ]	16.40 KM	
INT BACH	SCATTER	.842E-03 SR**-1	INT BACKS	SCATTER .	752E-03 SR**-1
LEVELS	40		LEVELS	37	
HEIGHT,	SCATTERING	G AEROSOL	HEIGHT, S	SCATTERING	AEROSOL
КМ	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	944	1914E-04	4.22	945	- 1880F-04
4.97	1.002	-5682E-06	4.97	1.013	4117E-05
5 72	1 018	5321E-05	5 72	1 026	7631E-05
6 47	1 039	1044E-04	6 47	1 022	5932F-05
7 22	1 058	1457F-04	7 22	1 063	1574F-04
7 97	1 017	3937F-05	7 97	1.065	12008-04
2 73	1 029	.3337E 03	0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1.050	12505-04
0.12	1.030	.0202E-05	0.72	1.009	.12005-04
9.47	1.045	.0/33E-02	3.4/ 10.00	1.122	.239/E-04
10.22	1.031	.0000000	10.22	1.079	.1428E-04
10.97	1.104	.1691E-04	10.97	1.080	.1320E-04
11./2	1.074	.10936-04	11.72	1.095	.1443E-04
12.47	1.063	.8454E-05	12.47	1.098	.1361E-04
13.22	1.084	.1035E-04	13.22	1.382	.4844E-04
13.97	1.169	.1882E-04	13.97	1.354	•4025E-04
14.72	1.367	.3669E-04	14.72	1,540	.5467E-04
15.47	1.948	<b>.8454E-04</b>	15.47	1.759	.6878E-04
16.22	2.707	.1340E-03	16.22	2.253	.1017E-03
16.97	3.407	.1665E-03	16.97	3.228	.1566E-03
17.72	3.662	.1625E-03	17.72	3.612	<b>.1619E-03</b>
18.47	3.547	.1372E-03	18.47	3.807	.1534E-03
19.22	3.556	.1216E-03	19.22	3.634	.1263E-03
19.97	3.249	.9451E-04	19,97	3.351	.9814E-04
20.72	2.924	.7143E-04	20.72	3.288	.8463E-04
21.47	2,517	.4985E-04	21.47	2.850	.6062E-04
22,22	2,153	,3356E04	22.22	2.587	.4594E-04
22.97	1.783	.2021E-04	22,97	2.152	.2946E-04
23.72	1.621	.1418E-04	23.72	1.765	.1728E-04
24.47	1.543	.1101E-04	24.47	1,488	.9766E-05
25.22	1.690	.1239E-04	25.22	1.372	.6600E-05
25.97	1,439	6994E-05	25.97	1,298	4701E-05
26 72	1 177	2495E-05	26 72	1 215	3006E-05
20.72	1 133	1668E-05	27 47	1 187	2330F-05
27.47	1 193	2163E-05	28.22	1 162	17968-05
20.22	1 121	12175-05	20.22	1 152	15198-05
20.31	1 066 1.101	-TOT/E-00	20.37	1,100 ULL L	• TOTOE-00
23.12	1 057	15030 0C	29.12	1.110 1.14	00-4C00C.
30.4/	1.007	.43235-VO 4707₽ 00	JU.4/ 21 22	1 102	+11215-US
31.22	1.007	.4/U/E-Ub	31.22	1.103	·/12/E-06
31.9/	1.038	.23035-06			
32.12	1.032	.1/8/E-06			

33.47 .993 -.3592E-07

DATE 8/	/30/83		DATE 9,	/19/83	
HNORM	5.27 KM		HNORM	5.12 KM	
TROP	14.10 КМ		TROP	14.80 KM	
INT BACH	KSCATTER .	.809E-03 SR**-1	INT BAC	KSCATTER .8	857E-03 SR**-1
LEVELS	39		LEVELS	35	
HEIGHT,	SCATTERING	G AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	.955	1535E-04	4.22	.952	1658E-04
4.97	1.002	.5647E-06	4.97	.992	2546E-05
5.72	1.021	.6143E-05	5.72	1.014	.4021E-05
6.47	1.045	.1208E-04	6.47	1.036	.9981E-05
7.22	1.035	.8579E-05	7.22	1.060	.1530E-04
7.97	1.024	.5607E-05	7.97	1.084	.1970E-04
8.72	1.080	.1691E-04	8.72	1.092	.2001E-04
9.47	1.113	.2197E-04	9.47	1.126	.2510E-04
10.22	1,129	.2316E-04	10.22	1.180	.3265E-04
10.97	1,169	2793E-04	10.97	1.278	4599E-04
11.72	1,171	.2586E~04	11.72	1.330	4967E-04
12.47	1,220	.3026E-04	12.47	1,479	.6535E-04
13.22	1.456	-5685E-04	13.22	1.757	9284E-04
13,97	1.673	7483E-04	13.97	1.579	6378E-04
14 72	1 675	6621E-04	14.72	1.754	7460E-04
15 47	2 105	9649E-04	15 47	2 156	1009E-03
16 22	2 290	1005E-03	16 22	2 537	1185F-03
16 97	2.872	1293E-03	16 97	2.007	1241E-03
17 72	3 452	1489E-03	17 72	2 723	1653E-03
18 47	3 615	1396E-03	18 47	3 862	1525F-03
19 22	3 424	1143E-03	19 22	2 511	1171E-03
19 97	2 852	76708-04	19 97	3 113	8741F-04
20 72	2,002	5177E-04	20 72	2 629	5910F-04
20.72	2.420	16517-04 16518-01	20,72	2.025	-0710B 04
21.4/	2.400	2700E 04	21.47	2 . 720	- JJZJE-04 2025E-04
22.22	1 760	10150-04	22.22	2,300	-3323E-04
22.97	1 /00	05700 05	22.31	2,090	2733E-04
23.12	1,427	- 5576E-05	23.12	1.713	.2031E-04
24,47	1.301	-0314E-00	24,4/	1,791	.1000E-04
20.22	1.32/	.0692E-00	20,22	1,660	.11005-04
25.37	1,200	.4435E-US	25.97	1,5/6	.0000E-05
26.72	1.205	.2796E-05	26.72	1.369	.5028E-05
2/.4/	1.220	.2746E-U5	2/.4/	1,296	.36165-05
20.22	1.1/5	1304E-05	20.22	1.219	.238UE-U5
20.37	1.124	·12045-05	20.9/	1.23/	.ZZØ/E-UD
23.12	1.0/1	.022UE-Ub	23.12	1.24/	*STICE-02
30.4/	1.094	./1/05-Ub			
31.2Z	1.003	.218/E-U/			
31.97	.950	30558-06			
32.72	.984	8846E-07			

DATE 10,	/ 3/83		DATE 10,	/27/83		
HNORM	5.12 KM		HNORM	28.22 KM		
TROP	13./U KM		TROP	9.40 KM		
INT BACI	KSCATTER .8	26E-03 SR**-1	INT BACI	KSCATTER .1	73E-02 SR**-1	
LEVELS	33		LEVELS	32		
HEIGHT,	SCATTERI NG	AEROSOL	HEI GHT,	SCATTERI NG	AEROSOL	
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,	
		(KM-SR)**-1		÷	(KM-SR)**-1	
4.22	.967	1135E-04	4.22	1.142	.4963E-04	
4.97	.998	5036E-06	4.97	1,163	.5283E-04	
5.72	1.021	.6024E-05	5.72	1.157	.4673E-04	
6.47	1.029	.7721E-05	6.47	1.150	.4107E-04	
7.22	1.046	.1140E-04	7.22	1.160	.4047E-04	
7.97	1.054	.1240E-04	7.97	1.174	.4056E-04	
8.72	1.077	.1642E-04	8.72	1.176	.3776E-04	
9.47	1.070	.1381E-04	9.47	1.278	.5453E-04	
10,22	1.074	.1338E-04	10.22	1.508	.8796E-04	
10,97	1.089	.1486E-04	10,97	1.870	.1347E-03	
11,72	1.112	.1717E-04	11.72	2.311	.1795E-03	
12.47	1.120	.1681E-04	12.47	2.714	.2105E-03	
13.22	1.218	.2759E-04	13.22	3.262	.2492E-03	
13,97	1.470	.5324E-04	13.97	3.412	.2391E-03	
14.72	1.556	.5573E-04	14.72	3.392	.2105E-03	
15.47	1.863	.7626E-04	15.47	3.346	.1836E-03	
16.22	2.513	.1172E-03	16.22	3.338	.1642E-03	
16.97	2.890	.1297E-03	16,97	3.244	.1420E-03	
17.72	3.547	.1522E-03	17.72	3,258	.1260E-03	
18.47	3.750	.1453E-03	18.47	3.194	.1096E-03	
19.22	3,397	.1116E-03	19.22	2.524	.6734E-04	
19.97	2.907	.7798E-04	19.97	2.196	.4673E-04	
20.72	2.270	<b>.4565E-</b> 04	20.72	1.825	.2854E-04	
21.47	1.894	.2822E-04	21.47	1.688	.2112E-04	
22,22	2.032	.2861E-04	22,22	1.707	.1927E-04	
22.97	2.441	.3514E-04	22.97	1.509	.1230E-04	
23.72	1.941	<b>.</b> 2034E-04	23.72	1.594	.1275E-04	
24.47	1.612	.1175E-04	24.47	1.601	.1146E-04	
25.22	1.478	.8167E-05	25.22	1.516	.8739E-05	
25.97	1.324	.4917E-05	25,97	1.306	.4613E-05	
26.72	1.286	.3865E-05	26.72	1.238	.3204E-05	
27.47	1.261	.3135E-05	27.47	1.071	.8461E-06	
28.22	1.238	.2546E-05				

DATE 10 HNORM TROP INT BAC LEVELS	/31/83 27.92 KM 11.40 KM KSCATTER .1 32	01E-02 SR**-1	DATE 11. HNORM TROP INT BACI LEVELS	/ 8/83 29.12 KM 15.00 KM KSCATTER . 37	110E-02 SR**-1
HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47	1.116 $1.172$ $1.150$ $1.169$ $1.156$ $1.167$ $1.158$ $1.117$ $1.121$ $1.167$ $1.355$ $1.795$ $1.795$ $1.795$ $1.753$ $1.840$ $2.195$ $3.242$ $3.431$ $3.066$ $3.116$	.4082E-04 .5621E-04 .4494E-04 .4678E-04 .3992E-04 .3932E-04 .3435E-04 .2347E-04 .2210E-04 .2764E-04 .5271E-04 .1041E-03 .1127E-03 .7760E-04 .7757E-04 .9886E-04 .1662E-03 .1589E-03 .1187E-03 .1076E-03	4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47	1.194 $1.229$ $1.226$ $1.233$ $1.191$ $1.197$ $1.190$ $1.196$ $1.220$ $1.254$ $1.255$ $1.361$ $1.272$ $1.288$ $1.696$ $2.416$ $2.853$ $3.453$ $3.726$ $3.567$	.6667E-04 .7282E-04 .638E-04 .6344E-04 .4799E-04 .4578E-04 .4084E-04 .3880E-04 .3965E-04 .4170E-04 .3790E-04 .3790E-04 .3299E-04 .3143E-04 .6775E-04 .1209E-03 .1414E-03 .1644E-03 .1609E-03 .1335E-03
19.22 19.97 20.72 21.47 22.22 22.97 23.72 24.47 25.22 25.97 26.72 27.47	3.120 2.621 2.149 1.788 1.461 1.423 1.484 1.381 1.164 1.078 1.032 1.039	.9569E-04 .6429E-04 .4007E-04 .2430E-04 .1257E-04 .1018E-04 .1029E-04 .7198E-05 .2751E-05 .1167E-05 .4195E-06 .4560E-06	19.22 19.97 20.72 21.47 22.22 22.97 23.72 24.47 25.22 25.97 26.72 27.47 28.22 28.97 29.72 30.47 31.22	3.407 2.940 1.824 1.673 1.658 1.657 1.817 1.454 1.183 1.179 1.168 1.133 1.076 1.029 1.027 .993 .999	.1097E-03 .7752E-04 .2939E-04 .2119E-04 .1827E-04 .1611E-04 .1767E-04 .8705E-05 .3119E-05 .2715E-05 .2715E-05 .2238E-05 .1562E-05 .7953E-06 .2673E-06 .2280E-06 5041E-07 3954E-08

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	DATE 11	./17/83		DATE 11	/21/83	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	HNORM	29.87 KM		HNORM	29 72 KM	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TROP	10.20 KM		TROP	9.30 KM	
LEVELS37LEVELS361255 03 58 - 1HEIGHT, SCATTERING KMRATIO RATIOAEROSOL BACKSCATTER, (KM-SR)**-1HEIGHT, SCATTERING KMAEROSOL BACKSCATTER, (KM-SR)**-14.221.372.1304E-03 .13554.221.130 .497.4512E-04 .4974.971.355.1149E-03 .13554.971.171 .5445E-046.471.312 .1383.1142E-03 .11225.721.162 .4765E-047.221.378 .9557E-04.9571E-04 .227.97.4765E-04 .47977.971.292 .6715E-04.647 .971.173 .4021E-04.4021E-04 .4466E-048.721.336 .6992E-04.692E-04 .797.1218 .4466E-04.4260E-04 .221.721.822 .1118E-0311.72 .1.22.320E-0410.97.760 .1156E-0310.97 .1.22.320E-0411.72 .22.1633E-03 .13.2213.22 .200.3262E-0413.97 .22.1633E-03 .13.2213.22 .200.320E-0414.72 .23.1882E-03 .13.9713.47 .466 .4257E-0415.47 .47 .488 .1069E-0316.72 .200 .201E-04.3038E-0416.22 .4242 .444 .481 .1231E-0316.97 .1472.466 .1282E-0319.22 .444 .481 .1231E-0316.97 .16.23.3038E-0416.22 .447 .485 .1579E-0317.72 .23.622 .1561E-03.16.97 .222 .222 .3044 .222 .23.141 .2978E-0419.97 .3.013 .8107E-04.121E-0	INT BAC	KSCATTER .	165E~02 SR**-1	INT BACI	(SCATTER	925E-03 SP**-1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LEVELS	37		LEVELS	36	2200 02 SK1
ReferenceRATIORATIORATIORACKSCATTER, (KM-SR)**-1RATIORATIORACKSCATTER, (KM-SR)**-1 $4.22$ $1.372$ $1.304E-03$ $4.22$ $1.130$ $.4512E-04$ $4.97$ $1.355$ $.1149E-03$ $4.97$ $1.171$ $.5445E-04$ $5.72$ $1.383$ $.1142E-03$ $5.72$ $1.162$ $.4765E-04$ $6.47$ $1.312$ $.8569E-04$ $6.47$ $1.174$ $.4765E-04$ $7.22$ $1.378$ $.9557E-04$ $7.22$ $1.181$ $.4568E-04$ $7.97$ $1.222$ $.6715E-04$ $7.97$ $1.173$ $.4021E-04$ $8.72$ $1.336$ $.6992E-04$ $8.72$ $1.207$ $.4446E-04$ $9.47$ $1.323$ $.6082E-04$ $9.47$ $1.218$ $.4260E-04$ $10.22$ $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1832E-03$ $13.97$ $.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $.446$ $.4257E-04$ $14.72$ $3.790$ $.2420E-03$ $16.22$ $.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.$	HEIGHT	<u> </u>	λερόσοι		601 <b>6</b> 7777	
Image of the second	км	RATIO	BACKSCADURD	HEIGHT,	SCATTERI NG	AEROSOL
4.221.372.1304E-034.221.130.4512E-044.971.355.1149E-034.971.171.5445E-045.721.383.1142E-035.721.162.4765E-046.471.312.8569E-046.471.174.4741E-047.221.378.9557E-047.221.181.4568E-047.971.292.6715E-047.971.173.4021E-048.721.336.6992E-048.721.207.4446E-049.471.323.6082E-049.471.218.4260E-0410.221.464.7899E-0410.221.318.5564E-0410.971.760.1156E-0310.971.208.3262E-0411.721.822.1118E-0311.721.220.3120E-0413.222.502.1633E-0313.221.270.3141E-0413.972.952.1882E-0313.971.347.3669E-0414.723.790.2420E-0314.721.466.4257E-0414.723.684.2106E-0315.471.628.5303E-0416.223.650.1862E-0316.973.048.1375E-0317.723.838.1749E-0317.723.622.1561E-0316.973.838.1749E-0316.973.043.1375E-0317.723.855.1579E-0317.723.622.1561E-0318.473.481.1231E-0316.473.465.1282E-0319.923.424<	••••	MIIIO	(KM - CP) * * - 1	KM	RATIO	BACKSCATTER,
4.22 $1.372$ $.1304E-03$ $4.22$ $1.130$ $.4512E-04$ $4.97$ $1.355$ $.1149E-03$ $4.97$ $1.171$ $.5445E-04$ $5.72$ $1.383$ $.1142E-03$ $5.72$ $1.162$ $.4765E-04$ $6.47$ $1.312$ $.8569E-04$ $6.47$ $1.174$ $.4741E-04$ $7.22$ $1.378$ $.9557E-04$ $7.22$ $1.181$ $.4568E-04$ $7.97$ $1.292$ $.6715E-04$ $7.97$ $1.173$ $.4021E-04$ $8.72$ $1.336$ $.6992E-04$ $8.72$ $1.207$ $.4446E-04$ $9.47$ $1.323$ $.6082E-04$ $9.47$ $1.218$ $.4260E-04$ $10.22$ $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $.1156E-03$ $10.97$ $1.220$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $.446$ $.4257E-04$ $16.97$ $3.838$ $.1749E-03$ $16.22$ $.206$ $.9040E-04$ $16.97$ $3.848$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.655$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $16.47$ $3.645$ $.1282E-03$ $19.97$ <			(IM-SR) ····~1			(KM-SR)**-1
4.971.355.1149E-034.971.171.5445E-045.721.383.1142E-035.721.162.4765E-046.471.312.8569E-046.471.174.4741E-047.221.378.9557E-047.221.181.4568E-047.971.292.6715E-047.971.173.4021E-048.721.336.6992E-048.721.207.4446E-049.471.323.6082E-049.471.218.4260E-0410.221.464.7899E-0410.221.318.5564E-0410.971.760.1156E-0310.971.208.3262E-0411.721.822.1118E-0311.721.220.3120E-0412.472.223.1494E-0312.471.250.3201E-0413.972.952.1632E-0313.971.347.3669E-0414.723.790.2420E-0314.721.446.4257E-0415.473.684.2106E-0316.222.06.9040E-0416.973.838.1749E-0316.22.1561E-0317.723.855.1579E-0317.723.622.1561E-0318.473.481.1231E-0318.473.465.1282E-0319.923.424.1069E-0315.273.044.7251E-0419.973.073.8121E-0419.973.013.8107E-0420.722.107.3794E-0420.723.044.7251E-0421.471.788.5604E-04<	4.22	1.372	.1304E-03	4.22	1.130	.4512E-04
5.721.383.1142E-035.721.162.4765E-046.471.312.8569E-046.471.174.4741E-047.221.378.9557E-047.221.181.4568E-047.971.292.6715E-047.971.173.4021E-048.721.336.6992E-048.721.207.4446E-049.471.323.6082E-049.471.218.4260E-0410.221.464.7899E-0410.221.318.5564E-0410.971.760.1156E-0310.971.208.3262E-0411.721.822.1118E-0311.721.220.3120E-0413.222.502.1633E-0313.221.270.3141E-0413.972.952.1882E-0313.971.347.3669E-0414.723.790.2420E-0314.721.446.4257E-0415.473.684.2106E-0316.222.206.9040E-0416.973.838.1749E-0316.273.048.1375E-0317.723.855.1579E-0317.723.622.1561E-0318.473.481.1231E-0318.473.465.1282E-0319.973.073.8121E-0419.973.013.8107E-0420.722.107.3794E-0420.723.044.7251E-0421.471.787.2388E-0421.472.786.5604E-0422.971.498.1187E-0422.971.518.1256E-0423.721.726 </td <td>4.97</td> <td>1.355</td> <td>.1149E-03</td> <td>4.97</td> <td>1.171</td> <td>.5445E-04</td>	4.97	1.355	.1149E-03	4.97	1.171	.5445E-04
6.47 $1.312$ $.8569E-04$ $6.47$ $1.174$ $.4741E-04$ $7.22$ $1.378$ $.9557E-04$ $7.22$ $1.181$ $.4568E-04$ $7.97$ $1.292$ $.6715E-04$ $7.97$ $1.173$ $.4021E-04$ $8.72$ $1.336$ $.6992E-04$ $8.72$ $1.207$ $.4446E-04$ $9.47$ $1.323$ $.6082E-04$ $9.47$ $1.218$ $.4260E-04$ $10.22$ $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $.1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.250$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.92$ $3.073$ $.8121E-04$ $19.97$ $.013$ $.8107E-04$ $20.72$	5.72	1.383	.1142E-03	5.72	1.162	.4765E-04
7.22 $1.378$ $.9557E-04$ $7.22$ $1.181$ $.4568E-04$ $7.97$ $1.292$ $.6715E-04$ $7.97$ $1.173$ $.4021E-04$ $8.72$ $1.336$ $.6992E-04$ $8.72$ $1.207$ $.4446E-04$ $9.47$ $1.323$ $.6082E-04$ $9.47$ $1.218$ $.4260E-04$ $10.22$ $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $.1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.220$ $.3120E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $.446$ $.4257E-04$ $14.72$ $3.664$ $.2106E-03$ $15.47$ $.668$ $.5303E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.441$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.2$	6.47	1.312	.8569E-04	6.47	1.174	4741E - 04
7.97 $1.292$ $.6715E-04$ $7.97$ $1.173$ $.4021E-04$ $8.72$ $1.336$ $.6992E-04$ $8.72$ $1.207$ $.4446E-04$ $9.47$ $1.323$ $.6082E-04$ $9.47$ $1.218$ $.4260E-04$ $10.22$ $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $.1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.250$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $16.22$ $3.650$ $.1862E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.885$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$	7.22	1.378	.9557E-04	7.22	1.181	4568E-04
8.72 $1.336$ $.6992E-04$ $8.72$ $1.207$ $.4446E-04$ $9.47$ $1.323$ $.6082E-04$ $9.47$ $1.218$ $.4260E-04$ $10.22$ $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $.1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.250$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $.2066$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ <td< td=""><td>7.97</td><td>1.292</td><td>.6715E-04</td><td>7.97</td><td>1,173</td><td>4021E-04</td></td<>	7.97	1.292	.6715E-04	7.97	1,173	4021E-04
9.471.323.6082E-049.471.218.4260E-0410.221.464.7899E-0410.221.318.5564E-0410.971.760.1156E-0310.971.208.3262E-0411.721.822.1118E-0311.721.220.3120E-0412.472.223.1494E-0312.471.250.3201E-0413.222.502.1633E-0313.221.270.3141E-0413.972.952.1882E-0313.971.347.3669E-0414.723.790.2420E-0314.721.446.4257E-0415.473.684.2106E-0315.471.628.5303E-0416.223.650.1862E-0316.222.206.9040E-0416.973.838.1749E-0316.973.048.1375E-0317.723.855.1579E-0317.723.622.1561E-0318.473.481.1231E-0318.473.465.1282E-0319.223.424.1069E-0319.223.141.9798E-0419.973.073.8121E-0419.973.013.8107E-0420.722.107.3794E-0420.723.044.7251E-0421.471.787.2388E-0421.472.788.5604E-0422.221.558.1501E-0422.971.518.1256E-0423.721.726.1533E-0423.721.342.7252E-0524.471.650.1221E-0424.471.251.4724E-0525.22<	8.72	1.336	.6992E-04	8.72	1,207	4446E-04
10.22 $1.464$ $.7899E-04$ $10.22$ $1.318$ $.5564E-04$ $10.97$ $1.760$ $.1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.250$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $22.22$ $1.558$ $.1501E-04$ $21.47$ $2.788$ $.5604E-04$ $22.27$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ <tr< td=""><td>9.47</td><td>1.323</td><td>.6082E-04</td><td>9.47</td><td>1.218</td><td>42608-04</td></tr<>	9.47	1.323	.6082E-04	9.47	1.218	42608-04
10.97 $1.760$ $.1156E-03$ $10.97$ $1.208$ $.3262E-04$ $11.72$ $1.822$ $.1118E-03$ $11.72$ $1.220$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.250$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.97$ $1.498$ $.187E-04$ $22.97$ $1.518$ $.1256E-04$ $22.97$ $1.498$ $.187E-04$ $22.97$ $.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $.342$ $.7252E-05$	10.22	1.464	.7899E-04	10.22	1 318	556AF-04
11.72 $1.822$ $.1118E-03$ $11.72$ $1.200$ $.3120E-04$ $12.47$ $2.223$ $.1494E-03$ $12.47$ $1.250$ $.3201E-04$ $13.22$ $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.27$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $3387E$ $05$ <	10.97	1.760	.1156E-03	10,97	1 208	32628-04
12.47 $2.223$ $1494E-03$ $12.47$ $1.250$ $3120E-04$ $13.22$ $2.502$ $1633E-03$ $13.22$ $1.270$ $3141E-04$ $13.97$ $2.952$ $1882E-03$ $13.97$ $1.347$ $3669E-04$ $14.72$ $3.790$ $2420E-03$ $14.72$ $1.446$ $4257E-04$ $15.47$ $3.684$ $2106E-03$ $15.47$ $1.628$ $5303E-04$ $16.22$ $3.650$ $1862E-03$ $16.22$ $2.206$ $9040E-04$ $16.97$ $3.838$ $1749E-03$ $16.97$ $3.048$ $1375E-03$ $17.72$ $3.855$ $1579E-03$ $17.72$ $3.622$ $1561E-03$ $18.47$ $3.481$ $1231E-03$ $18.47$ $3.465$ $1282E-03$ $19.22$ $3.424$ $1069E-03$ $19.22$ $3.141$ $9798E-04$ $19.97$ $3.073$ $8121E-04$ $19.97$ $3.013$ $8107E-04$ $20.72$ $2.107$ $3794E-04$ $20.72$ $3.044$ $7251E-04$ $21.47$ $1.787$ $2388E-04$ $21.47$ $2.788$ $5604E-04$ $22.27$ $1.558$ $1501E-04$ $22.97$ $1.518$ $1256E-04$ $23.72$ $1.726$ $1533E-04$ $23.72$ $1.342$ $7252E-05$ $24.47$ $1.650$ $1221E-04$ $24.47$ $1.251$ $4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $3287E-05$	11.72	1.822	.1118E-03	11.72	1 220	3120E-04
13.22 $2.502$ $.1633E-03$ $13.22$ $1.270$ $.3141E-04$ $13.97$ $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	12.47	2.223	.1494E-03	12.47	1.250	3201 E-04
13.97 $2.952$ $.1882E-03$ $13.97$ $1.347$ $.3669E-04$ $14.72$ $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3387E$	13.22	2.502	.1633E-03	13.22	1 270	31415 04
14.72 $3.790$ $.2420E-03$ $14.72$ $1.446$ $.4257E-04$ $15.47$ $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	13.97	2,952	.1882E-03	13.97	1 347	*27410-04
15.47 $3.684$ $.2106E-03$ $15.47$ $1.628$ $.5303E-04$ $16.22$ $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	14.72	3.790	.2420E-03	14.72	1 446	1257E-04
16.22 $3.650$ $.1862E-03$ $16.22$ $2.206$ $.9040E-04$ $16.97$ $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	15.47	3.684	.2106E-03	15.47	1 628	5202E 04
16.97 $3.838$ $.1749E-03$ $16.97$ $3.048$ $.1375E-03$ $17.72$ $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1561E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	16.22	3.650	.1862E-03	16.22	2 206	9040E-04
17.72 $3.855$ $.1579E-03$ $17.72$ $3.622$ $.1575E-03$ $18.47$ $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	16.97	3.838	.1749E-03	16.97	3 048	1275 - 02
18.47 $3.481$ $.1231E-03$ $18.47$ $3.465$ $.1282E-03$ $19.22$ $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $23.72$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	17.72	3.855	.1579E-03	17.72	3 622	1561E-02
19.22 $3.424$ $.1069E-03$ $19.22$ $3.141$ $.9798E-04$ $19.97$ $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	18.47	3.481	.1231E-03	18.47	3 465	•1001E-03
19.97 $3.073$ $.8121E-04$ $19.97$ $3.013$ $.8107E-04$ $20.72$ $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	19.22	3.424	.1069E-03	19 22	3.400 3.141	•1202E-US
20.72 $2.107$ $.3794E-04$ $20.72$ $3.044$ $.7251E-04$ $21.47$ $1.787$ $.2388E-04$ $21.47$ $2.788$ $.5604E-04$ $22.22$ $1.558$ $.1501E-04$ $22.22$ $2.322$ $.3659E-04$ $22.97$ $1.498$ $.1187E-04$ $22.97$ $1.518$ $.1256E-04$ $23.72$ $1.726$ $.1533E-04$ $23.72$ $1.342$ $.7252E-05$ $24.47$ $1.650$ $.1221E-04$ $24.47$ $1.251$ $.4724E-05$ $25.22$ $1.571$ $.9553E-05$ $25.22$ $1.203$ $.3287E-05$	19.97	3.073	.8121E-04	19.97	3 013	• 97 90E-04 9107E 04
21.47       1.787       .2388E-04       21.47       2.788       .5604E-04         22.22       1.558       .1501E-04       22.22       2.322       .3659E-04         22.97       1.498       .1187E-04       22.97       1.518       .1256E-04         23.72       1.726       .1533E-04       23.72       1.342       .7252E-05         24.47       1.650       .1221E-04       24.47       1.251       .4724E-05         25.22       1.571       .9553E-05       25.22       1.203       3387E 05	20.72	2.107	.3794E-04	20 72	3 044	-0107E-04 72E1E 04
22.22       1.558       .1501E-04       22.22       2.322       .3659E-04         22.97       1.498       .1187E-04       22.97       1.518       .1256E-04         23.72       1.726       .1533E-04       23.72       1.342       .7252E-05         24.47       1.650       .1221E-04       24.47       1.251       .4724E-05         25.22       1.571       .9553E-05       25.22       1.203       3387E-05	21.47	1.787	.2388E-04	21 47	2 788	•7251E-04 5604E-04
22.97       1.498       .1187E-04       22.97       1.518       .1256E-04         23.72       1.726       .1533E-04       23.72       1.342       .7252E-05         24.47       1.650       .1221E-04       24.47       1.251       .4724E-05         25.22       1.571       .9553E-05       25.22       1.203       3387E-05	22.22	1.558	.1501E-04	22 22	2 3 2 2	- JOU4E-04
23.72       1.726       .1533E-04       23.72       1.342       .7252E-05         24.47       1.650       .1221E-04       24.47       1.251       .4724E-05         25.22       1.571       .9553E-05       25.22       1.203       3387E 05	22,97	1.498	.1187E-04	22 97	1 518	12560 04
24.47       1.650       .1221E-04       24.47       1.251       .4724E-05         25.22       1.571       .9553E-05       25.22       1.203       3387E 05	23.72	1.726	.1533E-04	23 72	1 342	-1236E-04 7253B 05
25.22 1.571 .9553E-05 25.22 1.203 3387E 05	24.47	1.650	.1221E-04	23.72	1 251	• 7232E-05
	25.22	1.571	.9553E-05	25 22	1 202	
25.97 1.403 .5996E-05 25.97 1.157 2210E.05	25.97	1.403	.5996E-05	25.22	1,203	.330/E-U5
26.72 1.287 .3777E-05 26.72 1.126 1.656E 05	26.72	1.287	.3777E-05	26.72	1 126	• 2319E-05
27.47 1.208 .2436E-05 27.47 1.059 6837E of	27.47	1.208	.2436E-05	20.72	1 059	• 1000E-00
28.22 1.213 .2224E-05 28.22 1.042 .0037E-06	28.22	1.213	.2224E-05	28 22	1 042	.003/E-U6
28.97 1.078 .7191E-06 28.97 1.027 2467E-06	28.97	1.078	.7191E-06	28 97	1 0042	• 42045-00 24675 02
29.72 1.018 .1484E-06 29.72 1.006 4400P 07	29.72	1.018	.]484E-06	20.07	1 006	
30.47 1.007 .5192E-07 30.47 1.000 .4492E-07	30.47	1,007	5192E-07	30 17	1 000	• 44725-U /
31.22 1.008 .5387E-07	31.22	1,008	.5387E-07	00.41	T.000	.0000E+00

DATE 11, HNORM	/29/83 28.52 KM		DATE 11, HNORM	/30/83 27.92 KM	
TROP	15.00 KM		TROP	11.30 KM	
INT BAC	KSCATTER .8	08E-03 SR**-1	INT BACI	KSCATTER .]	10E-02 SR**-1
LEVELS	37		LEVELS	35	
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERING	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.131	.4470E-04	4.22	1.029	.9942E-05
4.97	1.155	.4872E~04	4.97	1.064	.2028E-04
5.72	1.168	.4897E04	5.72	1.083	.2433E-04
6.47	1.163	.4408E-04	6.47	1.100	.2701E-04
7.22	1.172	.4316E~04	7.22	1.120	.3005E-04
7.97	1.181	.4189E-04	7.97	1.132	.3052E-04
8.72	1.267	.5670E-04	8.72	1.139	.2955E-04
9.47	1.380	.7402E04	9.47	1.166	.3241E-04
10.22	1,247	.4378E-04	10.22	1.177	.3158E04
10.97	1.232	.3724E-04	10.97	1.204	.3307E-04
11.72	1.384	.5520E~04	11.72	1,296	.4271E-04
12.47	1.354	.4595E-04	12.47	1.725	.9232E-04
13.22	1.333	.3869E-04	13.22	2.262	.1426E-03
13.97	1.634	.6587E-04	13.97	1.868	.8782E04
14.72	1.840	.7784E-04	14.72	2.229	.1111E-03
15.47	2.638	.1337E-03	15.47	2.633	.1319E-03
16.22	3.319	.1689E-03	16.22	3.092	.1510E-03
16.97	3.222	.1448E-03	16.97	3.323	.1480E-03
17.72	3.485	.1429E-03	17.72	3.372	.1346E-03
18.47	3.418	.1217E-03	18.47	3.299	.1134E-03
19.22	4.823	.1704E-03	19.22	3.824	.1246E-03
19.97	2.963	.7747E04	19,97	3.036	.8041E-04
20.72	2.445	.5046E-04	20.72	2.546	.5383E-04
21.47	1.893	.2750E-04	21.47	1.938	.2890E-04
22.22	1.362	.9832E-05	22.22	1.484	.1320E-04
22.97	1.260	.6233E-05	22.97	1.307	.7414E-05
23.72	1.236	.4982E-05	23.72	1.176	.3756E-05
24.47	1.146	.2744E-05	24.47	1.115	.2160E-05
25.22	1.140	.2333E-05	25.22	1.108	.1799E-05
25.97	1.089	.1326E-05	25.97	1.052	.7751E-06
26.72	1.034	.4431E-06	26.72	1.030	.3929E-06
27.47	1.034	.3923E-06	27.47	1.011	.1311E-06
28.22	1.014	.1489E-06	28.22	1.049	.5111E-06
28,97	1.055	.5018E-06	28.97	1.063	.5841E-06
29.72	1.037	.2968E-06	29.72	1.031	.2514E-06
30.47	1.037	.2643E-06			
31.22	1.010	.6179E-07			1

DATE 12/	/ 7/83		DATE 2/	8/84	
HNORM	28.22 KM		HNORM	29.72 КМ	
TROP	11.60 KM		TROP	10.30 KM	
INT BACH	SCATTER .1	.02E-02 SR**-1	INT BACKS	SCATTER .	.934E-03 SR**-1
LEVELS	32		LEVELS	38	
עדז רטיי		AFRACAT			
neigni,	DAMIO		HEIGHT, A		
лм	RATIO	BACKSCATTER,	ΓM	RATIU	BACKSCATTER,
		(KM-SK)**-1			(KM-SK)**~1
4.22	1.030	.1062E-04	4.22	1.429	.1502E-03
4.97	1.023	.7611E-05	4.97	1.301	.9738E−04
5.72	1.044	.1307E-04	5.72	1.139	.417 <b>4E-</b> 04
6.47	1.070	.1892E-04	6.47	1.114	.3145E-04
7.22	1.102	.2525E-04	7.22	1.119	.3035 <b>E</b> -04
7.97	1.088	.1990E-04	7.97	1.147	.3447E-04
8.72	1.121	.2491E-04	8.72	1.198	.4276E-04
9.47	1.164	.3088E-04	9.47	1.151	.2982E-04
10.22	1.206	.3505E-04	10.22	1.323	.5828E-04
10.97	1.218	.3336E-04	10.97	1.704	.1112E-03
11.72	1.431	.5944E-04	11.72	1.831	.1163E-03
12.47	1.799	.9741E-04	12,47	1.755	.924 <b>4E</b> -04
13.22	2.550	.1696E03	13.22	1.382	.4190E-04
13.97	2.637	.1593E-03	13.97	1.342	.3364E-04
14.72	2.718	.1515E-03	14.72	1.778	.6873E-04
15.47	2.646	.1296E-03	15.47	2.333	.1042E-03
16.22	2.819	.1284E-03	16.22	2.663	.1165E-03
16.97	2,910	.1203E-03	16.97	2.843	.1149E-03
17.72	2.651	.9285E-04	17.72	3.092	.1148E-03
18.47	2.557	.7777E-04	18.47	2,971	.9560E-04
19,22	2.414	.6123E-04	19.22	2.347	.5818E-04
19.97	2.320	.5098E-04	19.97	2.310	.4960E-04
20.72	2.037	.3562E-04	20.72	1.940	.3140E-04
21.47	1.870	.2638E-04	21,47	1,462	.137 <b>9E</b> −04
22.22	1.398	.1065E-04	22.22	1.391	.1037 <b>E-</b> 04
22.97	1.242	.5724E-05	22.97	1.313	.7295E-05
23.72	1.164	.3471E-05	23.72	1.213	.4388E-05
24.47	1.130	.2451E-05	24.47	1.333	.6062E-05
25.22	1.113	.1889E-05	25.22	1.526	.8579E-05
25.97	1.094	.1384E-05	25.97	1.499	.7281E-05
26.72	1.056	.7368E-06	26.72	1.453	.5907E-05
27.47	1.056	.6475E-06	27.47	1.284	.3317E-05
			28.22	1.319	.3283E-05
			28.97	1.069	.6312E-06
			29.72	1.017	.1382E-06
			30.47	1.039	.2752E-06
			31.22	1.005	.3288E-07
			31.97	1.015	.8708E-07

DATE 2, HNORM TROP INT BAC	/21/84 28.97 KM 12.20 KM KSCATTER .8	75E03 SR**-1	DATE 3, HNORM TROP INT BAC	/ 1/84 28.67 KM 9.60 KM KSCATTER .9	)63E-03 SR**-1
LEVELS	36		LEVELS	36	
HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEI GHT , KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22	1.134	.4692E-04	4.22	1.723	.2526E-03
4.97	1.136	.4424E−04	4.97	2.033	.3332E-03
5.72	1.112	.3332E-04	5.72	2.352	.4010E-03
6.47	1.098	.2673E-04	6.47	3.979	.8105E-03
7.22	1.151	.3756E-04	7.22	3.886	.7203E-03
7.97	1.223	.5068E-04	7.97	1.586	.1343E-03
8.72	1.360	.7460E-04	8.72	1.199	.4197E-04
9.47	1.161	.3029E-04	9.47	1.936	.1793E-03
10.22	1.527	.8937E-04	10.22	2.194	.2025E-03
10.97	2.071	.1630E-03	10.97	1.782	.1171E-03
11.72	2.340	.1829E-03	11./2	2.149	.1516E-U3
12.4/	2.361	.1664E-03	12.4/	2.1//	.1403E-03
13.22	2.232	.1354E-03	13.22	2.096	.11/1E-U3
13.97	2.230	.1208E-03	13.97	2.365	.1300E-03
14.72	2.305	.1151E-U3	14./2	2.421	.11908-03
15.47	2.484	.1149E-03	15.47	2.335	.10136-03
10.22	2.506	.10428-03	16.22	2.403	.94365-04
10.97	2.6/3	.1032E-03	16.97	2.3/2	.82/6E-04
10 17	2.808	.9924E-04	11.12	2.463	./090E-04
10.22	2,569	.//Z/E-U4	10.4/	2.372	./JOLE-04
19.22	2,342	.3/03E-04 1667E-01	19.22	2.400	+00225-04 20015-04
19.97	2.219	.400/E-04	19.97	1.755	.2001E-04
20.72	1 238	1500F-04	20.72	1 329	-2111B-04 9812F-05
21.7	1 484	·1395E-04	21.47	1.325	7348E-05
22.22	1 269	6341F-05	22.22	1 282	6583E-05
22.27	1 219	4567F-05	22.57	1 277	5777F-05
23.72	1 207	3786F-05	23.72 24 A7	1 202	3733E-05
25.27	1 315	5126E-05	25 22	1 112	1846E-05
25.97	1,205	2989E~05	25.97	1,131	1912E-05
26.72	1,178	2309E-05	26.72	1.210	2732E-05
27.47	1.048	.5514E~06	27.47	1,236	.2721E-05
28.22	1,031	.3157E-06	28.22	1,016	.1624E-06
28.97	1.015	.1348E-06	28.97	1.018	.1588E-06
29.72	1.010	.8199E-07	29.72	1.019	1540E-06
30.47	1.011	.7765E-07	30.47	.980	1412E-06
•			- •		

DATE 3/	/ 7/84		DATE 3/	14/84		
HNORM	27.47 KM		HNORM	27.62 KM		
TROP	10.90 KM		TROP	11.10 KM		
INT BACK	KSCATTER .6	50E-03 SR**-1	INT BACK	SCATTER .	912E-03 SR**-1	
LEVELS	36		LEVELS	37		
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERING	AEROSOL	
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,	
		(KM-SR)**-1			(KM-SR)**-1	
4.22	1,130	.4545E-04	4,22	1,128	.4559E-04	
4.97	1.106	.3414E-04	4.97	1.258	.8483E-04	
5.72	1.111	.3280E-04	5.72	1.153	.4669E-04	
6.47	1.063	.1698E-04	6.47	1.234	.6497E-04	
7.22	1.078	.1930E-04	7.22	1,295	.7488E-04	
7.97	1.070	.1577E-04	7.97	1.273	.6350E-04	
8.72	1.112	.2320E-04	8.72	1.252	.5373E-04	
9.47	1.191	.3575E-04	9.47	1.244	.4749E-04	
10.22	1.261	.4445E-04	10.22	1.603	.1060E-03	
10.97	1.328	.5040E-04	10.97	1.900	.1422E-03	
11.72	1.461	.6350E-04	11.72	2.159	.1604E-03	
12.47	1.350	.4281E-04	12.47	2.159	.1432E-03	
13.22	1,219	.2422E-04	13.22	2.120	.1225E-03	
13.97	1.255	.2549E-04	13.97	2.135	.1117E-03	
14,72	1.600	.5370E-04	14.72	1.974	.8657E-04	
15.47	2.040	.8253E-04	15.47	2.002	.7907E-04	
16.22	2.442	.1018E-03	16.22	2.067	.7531E-04	
16.97	2.437	.9070E-04	16.97	2.232	.7819E-04	
17.72	2.544	.8669E-04	17.72	2.410	.8052E-04	
18.47	2.445	.7154E-04	18.47	2.557	.7755E-04	
19.22	2.194	.5218E-04	19.22	1.914	.4048E-04	
19,97	1.923	.3582E-04	19.97	1.918	.3603E-04	
20.72	1.711	.2448E-04	20.72	1.570	.1967E-04	
21.47	1.794	.2417E-04	21.47	1.490	.1496E-04	
22.22	1,612	.1649E-04	22.22	1,326	8799E-05	
22.97	1.570	.1361E-04	22.97	1.32/	.7800E-05	
23.72	1.357	./554E-05	23.72	1.424	.8950E-05	
24.47	1.519	.9811E-05	24.4/	1.463	.8669E-05	
25.22	1.460	.//U4E-05	25.22	1.331	.5505E-05	
25.97	1.181	.2669E-05	25.97	1,194	.2856E-05	
26.72	1.084	.1091E-05	26.72	1.059	.7614E-06	
27.47	1.071	.8170E-06	27.47	1.019	.2189E-06	
20.22	T.068	.6950E-06	28.22	1.039	.3942E-06	
28.97	.993	66/8E-U/	28.9/	1.026	.65415-06	
23.12	COT.T	.0371E-UD	27.12	1.020	.ZUD/E-Ub	
30.4/	1.004	.29/25-0/	3U+4/ 21 22	.334	4UDDE-U/	
			31.22	.700	12/4E-Ub	

DATE 4, HNORM	/ 2/84 27.77 KM		DATE 4/	11/84 27.47 KM		
זאטיי דאייי פארי	LL.ZU NM	64E-03 CD**-1		10.30 NM 50 XUUTD 7	07F-U3 CP**-1	
LEVELS	36	046-03 2K1	LEVELS	32	52E-05 SK 1	
HEI GHT ,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL	
KM	RATIO	BACKSCATTER,	КМ	RATIO	BACKSCATTER,	
		(KM-SR)**-1			(KM-SR)**-1	
4.22	1.406	.1425E-03	4.22	1.006	.2226E-05	
4.97	1.425	.1374E-03	4.97	1.032	.1027E-04	
5.72	1.289	.8583E-04	5.72	1.048	.1414E-04	
6.47	1.239	.6565E-04	6.47	1.075	.2048E-04	
7.22	1.172	.4353E-04	7.22	1.112	.2830E-04	
7.97	1.136	.3172E-04	7.97	1.162	.3777E-04	
8.72	1.155	.3311E-04	8.72	1.203	.4346E-04	
9.47	1.204	.3994E-04	9.47	1.305	.6001E-04	
10.22	1.132	.2370E-04	10.22	1.306	.5469E-04	
10.97	1,215	.3522E-04	10.97	1.405	.6418E-04	
11.72	1.355	.5207E-04	11.72	1.760	.1073E-03	
12.47	1.582	.7273E-04	12.47	1.943	.1168E-03	
13.22	1.919	.1020E-03	13.22	2.078	.1186E-03	
13.97	1.899	.8965E-04	13.97	2.050	.1030E-03	
14.72	1.680	.6110E-04	14.72	1.635	.5553E-04	
15.47	1.320	.2559E-04	15.47	1.710	,5563E-04	
16.22	1.539	.3844E-04	16.22	1,957	.6699E-04	
16,97	1.820	.5209E-04	16.97	2.096	.6774E-04	
17,72	2.012	.5626E-04	17.72	2.164	.6436E-04	
18.47	1.944	.4613E-04	18.47	2.217	.5943E-04	
19.22	1.850	.3723E-04	19.22	2.093	.4738E-04	
19,97	1.696	.2666E-04	19.97	1.892	.3433E-04	
20.72	2.227	.4129E-04	20.72	1.858	.2929E-04	
21.47	1.793	.2365E-04	21.47	1.873	.2644E-04	
22.22	1.253	.6692E-05	22.22	1.375	.1006E-04	
22.97	1.186	.4368E-05	22.97	1.143	.3417E-05	
23.72	1.169	.3512E-05	23.72	1.112	.2359E-05	
24.47	1.155	.2855E-05	24.47	1.209	.3915E-05	
25.22	1.100	.1633E-05	25.22	1.123	.2038E-05	
25.97	1.111	.1608E-05	25.97	1.064	.9366E-06	
26.72	1.066	.8469E-06	26.72	1.052	.6773E-06	
27.47	1.019	.2147E-06	27.47	.984	1821E-06	
28.22	1.062	.6341E-06				
28.97	1.069	.6267E-06				
29.72	1.000	.1622E-08				
30.47	1.005	.3485E-07				

DATE 4,	/25/84		DATE 4/2	26/84	
HNORM	28.67 KM		HNORM 2	28.97 KM	
TROP	11.00 KM		TROP 1	11.40 KM	
INT BACE	KSCATTER .	420E-03 SR**-1	INT BACKS	SCATTER .3	384E-03 SR**-1
LEVELS	40		LEVELS	38	
HEIGHT,	<b>SCATTERING</b>	AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4,22	1.330	.1139E-03	4.22	2.259	.4356E-03
4.97	1.431	.1373E-03	4.97	1.743	.2389E-03
5.72	1.442	.1302E-03	5.72	1.600	.1777E-03
6.47	1.427	.1161E-03	6.47	1,708	1939E-03
7.22	1,381	-9563E-04	7.22	1.24]	.6102E-04
7.97	1,311	7196E-04	7,97	1 137	.3211E-04
8 72	1.326	6926E-04	8 72	1 106	2279E-04
9 47	1.302	5798E-04	9 47	1 096	1902E-04
10 22	1 186	3225F-04	10.22	1 114	20535-04
10.22	1,100	1734F-04	10.22	1 207	3415F-04
10.07	1 161	2267F-04	10.57	1 162	24108-04
12.17	1 162	2028F-04	10 /7	1 224	1216F-01
12.27	1 242	20305~04	12.47	1 221	2647E-04
12 07	1 212	2164E-04	12 07	1 226	20975-04 2426F-04
14 72	1 200	.3104E-04	14 70	1.230	100CF 04
14./Z	1.377	· 3007E~04	14.12	1.204	,1000EF 04
10.47	1.000	.40916-04 E200E 04	10.47	1 404	2672E 04
10.22	1.700	.5300E-04	16.22	1,494	.30/3E-04
10.37	1.700	.0009E-04	10.97	1.000	.41/45-04 ECO4D 04
1/./2	1.928	.52/1E-04	1/./2	1,962	.0604E-04
18.47	2.020	.51356-04	18.47	2.039	.5362E-04
19.22	1.992	.4433E-04	19.22	1.990	.44/UE-U4
19.97	1.770	.3034E-04	19,97	1.820	.3293E-04
20.72	1.546	.1899E-04	20.72	1.628	.220/E-04
21.47	1.400	.1232E-04	21.47	1.419	.1304E-04
22.22	1.513	.1398E-04	22.22	1.342	.9406E-05
22.97	1.521	.1253E-04	22.97	1.336	.8194E-05
23.72	. 1.349	.7384E-05	23.72	1.661	.1425E-04
24.47	1.544	.1024E-04	24.47	1.405	.7654E-05
25.22	1.417	.7003E-05	25,22	1.188	.3140E-05
25.97	1.243	.3649E-05	25.97	1.175	.2598E-05
26.72	1.094	.1262E-05	26.72	1.121	.1604E-05
27.47	1.052	.6118E-06	27.47	1.032	.3772E-06
28.22	1.006	.6312E-07	28.22	1.022	.2265E-06
28.97	1.031	.2875E-06	28.97	1.003	.3170E-07
29.72	1.003	.2650E-07	29.72	.989	9391E-07
30.47	.981	1396E-06	30.47	.968	2326E-06
31.22	.974	1710E-06	31.22	.979	1325E-06
31.97	<b>.</b> 976	1401E-06	31.97	.946	3118E-06
32.72	.963	1924E-06			
33.47	.947	2443E-06			

DATE 5/	/. 9/84		DATE 5/1	6/84	
HNORM	28.52 KM		HNORM 2	28.67 KM	
TROP	10.90 KM		TROP	9.60 KM	
INT BACH	SCATTER .	664E-03 SR**-1	INT BACKS	CATTER .	112E-02 SR**-1
LEVELS	34		LEVELS	36	
	• -			• -	
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT, S	CATTERI NG	AEROSOL
КM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-l
4.22	1.303	.1057E-03	4.22	1.585	.2072E-03
4.97	1.450	.1450E-03	4.97	1.722	.2359E-03
5.72	1.492	.1467E-03	5.72	1.521	.1569E-03
6.47	1.394	.1077E-03	6.47	1.414	.1149E-03
7.22	1.284	.7045E-04	7.22	1.542	.1387E-03
7.97	1,475	.1079E-03	7.97	1.796	.1859E-03
8.72	1.444	.9226E-04	8.72	1.909	.1909E-03
9.47	1.484	.9192E-04	9.47	1.991	.1882E-03
10.22	1.544	.9394E-04	10.22	2.086	.1847E-03
10.97	1.562	.8806E-04	10.97	2.097	.1652E-03
11.72	1.499	.7014E-04	11.72	2.113	.1500E-03
12.47	1,600	.7533E-04	12.47	2.105	.1342E-03
13.22	1.781	8752E-04	13.22	1,991	.1080E-03
13.97	1.837	.8398E-04	13.97	2.048	.1022E-03
14.72	1,838	.7586E-04	14.72	2.079	.9452E-04
15.47	1,908	.7305E-04	15.47	2.019	.7854E-04
16.22	1,994	.7073E-04	16.22	2,126	.7850E-04
16 97	1 949	5994E-04	16 97	2.111	.6838E-04
17 72	1 898	5032E-04	17 72	1 998	5504E-04
18 47	1 964	4790E-04	18.47	1,925	4546E-04
19 22	2 128	4973E-04	19 22	2 032	4518E-04
19 97	1 894	34965-04	19 97	2127	44248-04
20 72	1 541	1876F-04	20 72	1 795	27018-04
20.72	1 227	10052-04	20.72	1 380	.27015 04 1141E-04
21.47	1 222	.1005E-04 6216E-0E	41.47 00 00	1,200	\$220F-05
22.22	1.220	+0210E-00	22.22	1.300	0420E-05
22.91	1.357	.0014E-U3	22.97	1.343	.0100E-03
23.12	1.311	.0039E-UD	23.12	1.400	.04/35-US
24.47	1.306	.5804E-05	24.4/	1.33/	.033/E-05
25.22	1.156	.26226-05	25.22	1.201	.33468-05
25.97	1.11/	.1/44E-05	25.97	1.190	.28048-05
26.72	1.081	.1063E-05	26.72	1.146	.1914E-05
27.47	1.082	.9565E-06	27.47	1.078	.9163E-06
28.22	1.024	.2478E-06	28.22	1.030	.3138E-06
28,97	1.000	.1863E-08	28.97	1.032	.2969E-06
			29.72	1.021	.1778E-06
			30.47	1.006	.4407E-07

DATE 5/	/24/84		DATE 6/	4/84		
HNORM	28.67 KM		HNORM 2	28.82 KM		
TROP	13.50 KM		TROP .	12.90 KM		
INT BACH	KSCATTER .3	344E-03 SR**-1	INT BACKS	SCATTER .3	365E-03 SR**-1	
LEVELS	39		LEVELS	37		
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL	
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,	
		(KM-SR)**-1			(KM-SR)**-1	
1 22	957	- 1/628-0/	1 22	1 100	1194E-01	
4.2Z 1.97	1 060	18987-04	4.22	1.148	.41045 04 4700E-04	
94.97 5 70	1.000	·10305-04	4.J/ 5.70	1 227	.4700E-04	
0.12 6 17	1.120	- 30335-04 25117 04	5.12	1.227	.000UE-04	
7 22	1.123	.3011E-04	0.47	1,240	.0001D-04	
7.07	1.064	.10016-04	7.22	1.230	.0900E-04	
1.91	1.050	.12996-04	/.9/	1.210	.484ZE-04	
8.72	1.053	.11408-04	8.72	1.223	.4/51E-04	
9.47	1.054	.10/5E-04	9.4/	1.206	.4048E-04	
10.22	1.095	.1/21E-04	10.22	1,231	.4171E-04	
10.97	1.106	.1/63E-04	10.97	1.230	.3798E-04	
11.72	1.137	.2085E-04	11.72	1.276	.4156E-04	
12.47	1.263	.3613E-04	12.47	1.294	.4025E-04	
13.22	1.562	.6910E-04	13.22	1.371	.4448E-04	
13.97	1.403	.4369E-04	13.97	1.399	.4209E-04	
14.72	1.457	.4422E-04	14.72	1.283	.2668E-04	
15.47	1.314	.2659E-04	15.47	1.414	.3502E-04	
16.22	1.449	.3397E-04	16.22	1.414	.3139E-04	
16.97	1.734	.4917E-04	16.97	1.572	.3871E-04	
17.72	1.966	.5673E-04	17.72	1,899	.5384E-04	
18.47	1.927	.4781E-04	18.47	2.100	.5755E-04	
19.22	1.826	.3750E-04	19.22	2.058	.4869E-04	
19.97	1.921	.3673E-04	19.97	1,906	.3676E-04	
20.72	1.801	.2809E-04	20.72	1.665	.2382E-04	
21.47	1.510	.1584 <b>E-</b> 04	21.47	1.507	.1611E-04	
22.22	1.498	.1370E-04	22.22	1.315	.8884E-05	
22.97	1.279	.6800E-05	22,97	1.311	.7753E-05	
23.72	1.167	.3598E-05	23.72	1,289	.6334E-05	
24.47	1.170	.3207E-05	24.47	1.216	.4163E-05	
25.22	1.128	.2147E-05	25.22	1.200	.3420E-05	
25.97	1.136	.2031E-05	25,97	1.141	.2132E-05	
26.72	1.111	.1485E-05	26.72	1,056	.7480E-06	
27.47	1.063	.7421E-06	27.47	1.076	.9026E-06	
28.22	1.016	.1687E-06	28.22	1.041	.4359E-06	
28.97	1.013	.1219E-06	28,97	1.015	.1415E-06	
29.72	.980	1667E-06	29,72	1.033	.2806E-06	
30.47	.952	3551E-06	30.47	1.034	.2564E-06	
31.22	.947	3486E-06	31.22	1.008	.5217E-07	
31.97	.942	3353E-06			-	
32.72	.973	1387E-06				

DATE 67 HNORM TROP INT BACH LEVELS	/11/84 6.02 KM 14.10 KM KSCATTER . 34	388E-03 SR**-1	DATE 6/2 HNORM 2 TROP 1 INT BACK LEVELS	25/84 28.97 KM 10.50 KM SCATTER .5 35	563E-03 SR**-1
HEIGHT,	SCATTERING	AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	.931	2377E-04	4.22	.947	1824E-04
4.97	.973	8627E-05	4.97	1.015	.4883E-05
5.72	.999	3518E-06	5.72	1.045	.1320E-04
6.47	1.026	.6934E-05	6.47	1.030	.8189E-05
7.22	1.035	.8663E-05	7.22	1.050	.1244E-04
7.97	1.032	.7330E-05	7.97	1.188	.4349E-04
8.72	1.038	.8085E-05	8.72	1.156	.3335E-04
9.47	1.044	.8659E-05	9.47	1.141	.2755E-04
10.22	1.060	.1082E-04	10.22	1.175	.3104E-04
10.97	1.065	.1088E-04	10.97	1.246	.3915E-04
11.72	1.069	.1046E-04	11.72	1.505	.7190E-04
12.47	1.149	.2068E-04	12.47	1.609	.7721E-04
13.22	1.317	.4004E-04	13.22	1.569	.6438E-04
13.97	1.514	.5854E-04	13.97	1.470	.4/86E-04
14./2	1.531	.5341E-04	14.72	1.450	.4110E-04
15.4/	1.61/	.5456E-04	15.47	1.453	.3705E-04
16.22	1.706	.54/5E-04	16.22	1./19	.5281E-04
16.97	1.838	.5/33E-04	16.97	1.816	.533/E-04
1/./2	2.035	.6ZUIE-04	1/./2	1.805	.46775-04
10.47	1.952	.50/6E-04	18.47	1.897	.4629E-04
19.22	1.908	.421/E-U4	19.22	1.850	.3860E-04
19.9/	1.004	.3514E-04	19.97	1.//3	.3113B-04
20.72	1.700	.2361E-04	20.72	1.600	.2346E-04
21.47	1 407	.10/1E-04	21.47	1.001	・1///BFV4 コピコンエーロイ
22.22	1 202	.1149E-04 0702E-05	22.22	1.000	•1016P-04
22.27	1 227	9703E-05	22.31	1 427	.1010E-04 0622E-05
23.72	1 256	.0024E-00 5002E-05	23.12	1 422	• 2032E-05
24.47	1,200	.JUUZE-UJ 29520-05	24.47	1 200	.0209E-05
25.22	1 145	2239 <u>5</u> -05	25.22	1 244	2764E-05
25.57	1 000	1350F-05	25.57	1 189	25998-05
27.47	1,076	9096E-06	20.72	1,110	1340E-05
28.22	1.073	.7787E-06	28.22	1.042	4558E-06
28,97	1,036	.3479E-06	28.97	1.023	-2200E-06
			29.72	1.026	.2231E-06
DATE 7,	/ 9/84		DATE 8/	7/84	
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HNORM	29.57 КМ		HNORM 2	28.37 KM	
TROP	13.20 KM		TROP ]	15.30 KM	
INT BAC	KSCATTER	.549E-03 SR**-1	INT BACKS	SCATTER .	297E-03 SR**-1
LEVELS	37		LEVELS	40	
	-				
HEIGHT,	SCATTERIN	G AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER.	КМ	RATIO	BACKSCATTER.
		(KM-SR)**-1			(KM-SR)**-1
		····· ···· · · · · · ·			
4.22	1.669	.2288E-03	4.22	1.138	.4694E-04
4.97	1.649	.2055E-03	4.97	1.038	.1177E-04
5.72	1.352	.1033E-03	5.72	1.002	.4615E-06
6.47	1.306	8280E-04	6.47	1.020	.5275E-05
7.22	1,349	8714E-04	7.22	1.024	5872E-05
7 97	1 396	9117E-04	7 97	1 054	12288-04
8 72	1 392	83248-04	8 72	1 066	1381 -04
9 17	1 201	76505-04	9.72	1 088	17125-04
10 22	1 462	9221E-04	10 22	1.000	1920E-04
10.22	1.403	103316-04	10.22	1,002	1029E-04
10,97	1.019	.10236-03	10.97	1.000	.133355~04
10 47	1.49/	.75096-04	11.12	1.072	.100/E-04
12.4/	1.350	.4/35E-04	12.47	1.088	.1202E-04
13.22	1.3/0	.4581E-04	13.22	1.079	.9912E-05
13.97	1.452	.4963E-04	13.97	1.122	.13/2E-04
14.72	1.512	.5010E-04	14.72	1.194	.1962E-04
15.47	1.718	.6267E-04	15.47	1.357	.3192E-04
16.22	2.133	.8812E-04	16.22	1.546	.4261E-04
16.97	2.319	.9094E-04	16.97	1.654	.4509E-04
17.72	2.272	.7717E-04	17.72	1.830	.5030E-04
18.47	2.313	.7007E-04	18.47	1.910	.4846E-04
19.22	2.229	.5781E-04	19.22	1.939	.4382E-04
19.97	2.114	.4628E-04	19.97	1.909	.3710E-04
20.72	1.861	.3158E-04	20.72	1.716	.2587 <b>E</b> -04
21.47	1.671	.2178E-04	21.47	1.685	.2208E-04
22.22	1.493	.1415E-04	22.22	1.518	.1482E-04
22.97	1.426	.1069E-04	22.97	1.477	.1205E-04
23.72	1.486	.1077E-04	23.72	1.396	.8822E-05
24.47	1.499	.9894E-05	24.47	1.305	.6015E-05
25.22	1.321	.5634E-05	25.22	1.271	.4741E-05
25.97	1.249	.3888E-05	25.97	1,223	.3456E-05
26.72	1.189	.2613E-05	26.72	1.189	.2597E-05
27.47	1,164	2018E-05	27.47	1.201	.2451E-05
28.22	1.213	2329E-05	28.22	1.010	1039E-06
28 97	1 1 3 3	1290E-05	28.97	1,129	1248E-05
29 72	1 035	3047E-06	29 72	1 111	9670E-06
20 47	1 077	5962E-06	30 47	1 190	14808-05
31 22	1 100	.6846E-06	31 22	1,072	.5016E-06
J. + • 6.6	<b>X.X00</b>	+UUIUD VV	31 97	1,142	88258-06
			32 72	961	- 2156F-06
			33 47	1,098	4743F-06
			JJ • ¥/		

DATE 8, HNORM TROP INT BACI LEVELS	/15/84 29.72 KM 14.50 KM KSCATTER . 40	305E-03 SR**-1	DATE 8/2 HNORM 2 TROP 1 INT BACKS LEVELS	21/84 29.72 KM .3.90 KM SCATTER . 40	315E-03 SR**-1
HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, S KM	CATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.97 20.72 21.47 20.72 21.47 22.22 23.72 23.72 24.47 25.22	.916 1.038 1.110 1.114 1.089 1.095 1.121 1.136 1.133 1.111 1.114 1.104 1.116 1.252 1.304 1.360 1.570 1.707 1.831 1.928 1.878 1.801 1.714 1.491 1.396 1.367 1.323 1.200	$(M-SR)^{+-1}$ 2842E-04 .1198E-04 .3178E-04 .3060E-04 .2202E-04 .2176E-04 .2548E-04 .2548E-04 .2644E-04 .284E-04 .1725E-04 .1457E-04 .1457E-04 .3108E-04 .3224E-04 .4887E-04 .4887E-04 .4887E-04 .4968E-04 .4968E-04 .4137E-04 .3331E-04 .2623E-04 .1593E-04 .1593E-04 .1593E-04 .1593E-05 .7236E-05 .3960E-05 .4278E-05	4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.22 19.97 20.72 21.47 22.22 22.97 23.72 24.47 25.22	.922 .974 1.001 1.026 1.013 1.020 1.019 1.029 1.019 1.029 1.019 1.020 1.046 1.120 1.046 1.120 1.377 1.615 1.750 1.733 1.775 1.748 1.925 1.878 1.623 1.426 1.356 1.245 1.256 1.274	$(M-SR)^{-1}$ 2642E-04 8172E-05 .4073E-06 .6898E-05 .3295E-05 .4574E-05 .3971E-05 .3971E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-05 .3492E-04 .2055E-04 .2055E-04 .2055E-04 .3298E-04 .3298E-04 .3512E-04 .3512E-04 .3201E-04 .3201E-04 .2022E-04 .2022E-04 .3201E-04 .3201E-04 .3201E-04 .3201E-04 .3039E-05 .5486E-05 .5060E-05 .4813E-05
25.97 26.72 27.47 28.22 28.97 29.72 30.47 31.22 31.97 32.72 33.47	1.220 1.096 1.074 1.100 1.028 .995 .973 .922 .917 .955 971	.3458E-05 .1332E-05 .9130E-06 .1100E-05 .2744E-06 4374E-07 2108E-06 5463E-06 5102E-06 2461E-06 1432E-06	25.97 26.72 27.47 28.22 28.97 29.72 30.47 31.22 31.97 32.72 33 47	1.129 1.060 1.099 1.085 1.035 1.002 .962 .976 .944 .963 922	.2018E-05 .8337E-06 .1222E-05 .9265E-06 .3370E-06 .1906E-07 2944E-06 1617E-06 3430E-06 2032E-06 3820E-06

DATE 9 HNORM TROP INT BAC	/ 6/84 29.57 KM 12.80 KM KSCATTER .4	428E-03 SR**-1	DATE 9/ HNORM TROP INT BACK	19/84 29.27 KM 15.10 KM SCATTER .2	259E-03 SR**-1
LEVELS	35		LEVELS	35	
HEIGHT,	SCATTERI NG	AEROSOL	HEI GHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	.972	9844E-05	4.22	1.002	.8167E-06
4.97	1.004	.1165E-05	4.97	1.017	.5473E-05
5,72	1.057	.1709E-04	5.72	1.034	.1000E-04
6.47	1.039	.1079E-04	6.47	1.047	.1277E-04
7.22	1.041	.1046E-04	7.22	1.068	.1701E-04
7.97	1.059	.1376E-04	7,97	1.081	.1862E-04
8.72	1.114	.2425E-04	8.72	1.096	.2042E-04
9.47	1.150	.2882E-04	9.47	1.109	.2147E-04
10.22	1.181	.3183E-04	10.22	1.108	.1951E-04
10.97	1.265	.4230E-04	10.97	1.111	.1811E-04
11.72	1.324	.4672E-04	11.72	1.132	.1948E-04
12.47	1.398	.5173E-04	12.47	1.122	.1623E-04
13.22	1.453	.5219E-04	13.22	1.146	.1746E-04
13.97	1.455	.4700E-04	13.97	1.155	.1677E-04
14.72	1.370	.3419E-04	14.72	1.168	.1624E-04
15.47	1,606	.5013E-04	15.47	1.291	.2500E-04
16.22	1.809	.5902E-04	16.22	1.460	.3499E-04
16.97	1.843	.5442E-04	16.97	1.631	.4255E-04
17.72	1.870	.4982E-04	17.72	1.756	.4488E-04
18.47	1.843	.4284E-04	18.47	1.827	.4331E-04
19.22	1.786	.3548E-04	19.22	1.774	.3559E-04
19.97	1.746	.2999E-04	19,97	1.693	.2797E-04
20.72	1.811	.2899E-04	20.72	1.620	.2212E-04
21.47	1.837	.2656E-04	21.47	1.559	.1765E-04
22.22	1.674	.1898E-04	22.22	1.441	.1235E-04
22.97	1.615	.1536E-04	22,97	1.366	.9072E-05
23.72	1.492	.1090E-04	23.72	1.433	.9522E-05
24.47	1.395	.7780E-05	24.47	1.364	.7075E-05
25.22	1.273	.4783E-05	25.22	1.359	.6182E-05
25.97	1.184	.2849E-05	25.97	1.241	.3687E-05
26.72	1.155	.2123E-05	26.72	1.159	.2168E-05
27.47	1.094	.1132E-05	27.47	1.139	.1692E-05
28.22	1.054	.5745E-06	28.22	1.093	.1008E-05
28.97	1.044	.4206E-06	28,97	1.032	.3081E-06
29.72	1.015	.1291E-06	29.72	1.021	.1793E-06

DATE 10. HNORM TROP INT BACK LEVELS	/29/84 11.42 KM 15.30 KM KSCATTER .2 35	47E-03 SR**-1	DATE 1: HNORM TROP INT BAG LEVELS	1/ 8/84 28.67 KM 10.30 KM CKSCATTER . 33	221E-03 SR**-1
HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER,	HEI GHT KM	, SCATTERING RATIO	AEROSOL BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.97	1.016	.5020E-05	4.22	1.421	.1473E-03
5.72	1.028	.8219E-05	4.97	1.057	.1848E-04
6.47	1.026	.7156E-05	5.72	1,938	2794E-03
7.22	1.033	.8163E-05	6.47	5.305	.1184E-02
7,97	1.020	.4623E-05	7.22	4.249	.8253E-03
8.72	1.027	.5663E-05	7.97	12.240	2634E-02
9.47	1.017	.3413E-05	8.72	17.266	.3508E-02
10.22	1.018	.3276E-05	9.47	9,631	.1710E-02
10.97	1.014	.2374E-05	10.22	1.715	.1298E-03
11.72	1.009	.1293E-05	10.97	1.163	.2590E-04
12.47	1.034	.4615E-05	11.72	1.068	.9681E-05
13.22	1.052	.6429E-05	12.47	1.039	.4970E-05
13.97	1.083	.9151E-05	13.22	1.061	.6958E-05
14.72	1.139	.1367E-04	13.97	1.082	.8416E-05
15.47	1,241	.2114E-04	14.72	1.105	.9632E-05
16.22	1.369	.2866E-04	15.47	1.164	.1355E-04
16.97	1.460	.3145E-04	16.22	1.290	.2147E-04
17.72	1.577	.3456E-04	16.97	1.391	.2596E-04
18.47	1.712	.3736E-04	17.72	1.494	.2884E-04
19.22	1.831	.3890E-04	18.47	1.519	.2663E-04
19.97	1.993	.4035E-04	19.22	1.459	.2085E-04
20.72	2.015	.3680E-04	19.97	1.363	.1447E-04
21.47	1.798	.2563E-04	20.72	1.272	.9462E-05
22.22	1.414	.1153E-04	21.47	1.411	.1273E-04
22.97	1.225	.5451E-05	22,22	1.100	.2734E-05
23.72	1.115	.2486E-05	22.97	1.246	.5944E-05
24.47	1.130	.2489E-05	23.72	1.280	.5948E-05
25.22	1.164	.2748E-05	24.47	1.248	.4674E-05
25.97	1.214	.3158E-05	25.22	1.304	.5071E-05
26.72	1.262	.3417E-05	25.97	1.264	.3941E-05
27.47	1.267	.3083E-05	26.72	1.185	.2473E-05
28.22	1.220	.2270E-05	27.47	1.103	.1241E-05
28.97	1.199	.1829E-05	28.22	1.059	.6380E-06
29.72	1.222	.1818E-05			
30,47	1,136	•9932E-06			

DATE 11	/29/84		DATE 2,	/10/85	
HNORM	6.77 KM		HNORM	29.42 KM	
TROP	11.20 KM		TROP	10.90 KM	
INT BAC	KSCATTER .2	270E-03 SR**-1	INT BACI	KSCATTER .	348E-03 SR**-1
LEVELS	37		LEVELS	36	
HEIGHT,	SCATTERI NG	AEROSOL	HEI GHT,	SCATTERI NO	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	•938	2114E-04	4.22	.968	1131E-04
4.97	.968	1014E-04	4.97	1.103	.3325E-04
5.72	.989	3100E-05	5.72	1.042	.1242E-04
6.47	1.005	.1243E-05	6.47	1.070	.1919E-04
7.22	1.010	.2499E-05	7.22	1.082	.2064E-04
7.97	1.030	.6919E-05	7,97	1.077	.1795E-04
8.72	1.027	.5789E-05	8.72	1.075	.1611E-04
9.47	1.049	.9538E-05	9.47	1.125	.2457E-04
10.22	1.065	.1145E-04	10.22	1.141	.2526E-04
10.97	1.099	.1582E-04	10.97	1.181	.2910E-04
11.72	1.128	.1833E-04	11.72	1.199	.2857E-04
12.47	1.149	.1882E-04	12.47	1.375	.4686E-04
13.22	1,165	.1883E-04	13.22	1.404	.4515E-04
13.97	1.169	.1732E-04	13.97	1.366	.3593E-04
14.72	1.179	.1663E-04	14.72	1.291	.2581E-04
15.47	1.248	.2089E-04	15.47	1.272	.2176E-04
16.22	1.485	.3646E-04	16.22	1.411	.2927E-04
16,97	1.656	.4304E-04	16.97	1,527	.3330E-04
1/./2	1.69/	.3980E-04	1/./2	T.69T	.3866E-U4
18.4/	1.750	.38235-04	18.47	1.920	.45538-04
19,22	1,001	.29926-04	19.22	1.710	.3126E-04
19.97	1,484	.1941E-04	19.97	1.525	.20265-04
20./2	1.402	.14285-04 0000 05	20.72	1.494	.1690E-04
21,47	1.202	.0200E-05	Z1,4/ 22,22	1.419	.125/E-U4
22.22	1.1/1	.4/ZOE-UO	22.22	1.200	.6/V6E-U5
22.31	1,100	.3/09E-U5	22.97	1.124	.2851E-05
23.12	1.149	.3158E-U5	23.12	1.089	.1808E-05
24.47	1.000	.1000 <u>0</u> -05	24,4/	1.122	.2293B-05
23.22	1.076	.1201E-05	23.22	1.123	.1962E-05
20,97	1 171	.1020E-05	20.37	1.071	- 7776 P 06
20,72	1.1/1 1.1/1	.22375-05 16695-05	20.72	1.059	-7330E-00 E00EE-06
20 33	1.144 1 Agg	10228-05	28 22	1 000	-000E-00 2288E-04
20.22	1 071	4552F-05	20.22	1 017	15005-VO
20.31	דיטיד 1 חום	1550R-06	20.97	1 000	1406P-07
20.12	1 027	2653F-06	27.12	1 002	•1420B-07 1972₽_07
30+47	1 000	000010-00	JV.4/	1.00Z	.12/36-0/
JIIC	<b>1.000</b>	·00000400			

DATE 2/	/20/85		DATE 3.	/ 6/85	
HNORM	6.62 KM		HNORM	29.27 KM	
TROP	10.80 KM		TROP	10.70 KM	
INT BACH	SCATTER .	401E-03 SR**-1	INT BAC	KSCATTER	.232E-03 SR**-1
LEVELS	38		LEVELS	38	
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HEIGHT,	SCATTERING	AEROSOL	HEIGHT,	SCATTERIN	G AEROSOL
KM	RATIO	BACKSCATTER,	КM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.018	.6317E-05	4.22	1.181	.6263E-04
4.97	1.063	.2031E-04	4.97	1.084	.2701E-04
5.72	,999	4172E-06	5.72	1.103	.3056E-04
6.47	1.001	.2199E-06	6.47	1.134	.3652E-04
7.22	1.010	.2433E-05	7.22	1.148	.3703E-04
7.97	1.017	.3927E-05	7.97	1.104	.2404E-04
8.72	1.025	.5448E-05	8.72	1.075	.1599E-04
9.47	1.029	.5661E-05	9.47	1.085	.1652E-04
10.22	1.040	.7197E-05	10.22	1.196	.3425E-04
10.97	1.113	.1800E-04	10.97	1.175	.2710E-04
11.72	1.373	.5288E-04	11.72	1.110	.1540E-04
12.47	1,454	.5723E-04	12.47	1.099	.1253E-04
13.22	1.450	499]E-04	13.22	1.096	.1081E-04
13.97	1.470	.4661E-04	13.97	1.101	.1039E-04
14.72	1.468	.4166E-04	14.72	1.119	.1108E-04
15.47	1.467	.3673E-04	15.47	1.165	.1363E-04
16.22	1.477	.3360E-04	16.22	1.197	.1463E-04
16.97	1.519	.3264E-04	16.97	1.311	.2062E-04
17.72	1.536	.2978E-04	17.72	1.448	.2622E-04
18.47	1.472	.2306E-04	18.47	1,585	.3003E-04
19.22	1.497	.2137E-04	19.22	1.675	.3065E-04
19.97	1.544	.2079E-04	19.97	1.779	.3064E-04
20.72	1.458	.1558E-04	20.72	1.765	.2699E-04
21.47	1.609	.1833E-04	21.47	1.577	.1802E-04
22.22	1.227	.5971E-05	22.22	1.267	.7370E-05
22.97	1.258	.6017E-05	22.97	1.196	.4778E-05
23.72	1,562	.1167E-04	23.72	1.137	.2948E-05
24.47	1.391	7174E-05	24.47	1.107	.2024E-05
25.22	1,225	.3656E-05	25.22	1.077	.1282E-05
25.97	1.123	.1783E-05	25.97	1.067	.9819E-06
26.72	1.070	.9058E-06	26.72	1.046	.5971E-06
27.47	1.046	.5230E-06	27.47	1.027	.3167E-06
28,22	1,025	.2582E-06	28.22	1.025	.2541E-06
28,97	1.038	.3425E-06	28.97	1.005	.4722E-07
29.72	1.032	.2557E-06	29.72	1.013	.1014E-06
30.47	1.058	.4108E-06	30.47	1.032	.2312E-06
31.22	1.034	.2185E-06	31.22	.998	1516E-07
31,97	1.026	.1443E-06	31.97	1.034	.1878E-06
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DATE 3. HNORM	/12/85 28.97 KM		DATE 5/ HNORM	6/85 7.52 KM	
TROP	11.40 KM		TROP .	12.40 KM	004m 00 cn++ 1
INT BAU	KSCATTER .2	98E-03 SK**-1	INT BACK	SCATTER .	.234E-03 SK^^-1
LEVELS	36		LEVELS	38	
HEIGHT,	SCATTERING	AEROSOL	HEIGHT, 🕄	SCATTERI NG	G AEROSOL
KM	RATIO	BACKSCATTER,	КМ	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.250	.8572E-04	4.22	1.733	.2518E-03
4.97	1.471	.1492E-03	4.97	1.241	.7664E-04
5.72	1.097	.2808E-04	5.72	1.085	.2498E-04
6.47	1.125	.3310E-04	6.47	1,009	.2427E-05
7.22	1.114	.2784E-04	7.22	1.002	.4976E-06
7.97	1.103	2304E-04	7.97	1.005	.1196E-05
8.72	1.121	2508E-04	8.72	1.008	.1614E-05
9.47	1.083	.1573E-04	9.47	1.032	.6282E-05
10.22	1.092	.1593E04	10.22	1.149	.2676E-04
10,97	1,109	.1735E-04	10.97	1.384	.6316E-04
11.72	1.176	.2478E-04	11.72	1.269	.4035E-04
12.47	1.214	.2687E-04	12.47	1.214	.2924E-04
13.22	1.204	.2281E-04	13.22	1.100	.1215E-04
13.97	1.228	2301E-04	13.97	1.217	2344E-04
14.72	1.484	4387E-04	14.72	1.282	.2690E-04
15.47	1,509	.4158E-04	15.47	1.400	.3387E-04
16.22	1,583	.4176E-04	16.22	1.462	.3473E-04
16,97	1.602	.3917E-04	16.97	1.453	.3005E-04
17.72	1.628	.3516E-04	17.72	1.467	.2720E-04
18.47	1.518	.2606E-04	18.47	1.390	.1997E-04
19.22	1.479	.2117E-04	19.22	1.520	.2358E-04
19.97	1.441	.1715E-04	19.97	1.527	.2117E-04
20.72	1.322	.1103E-04	20.72	1.448	.1557E-04
21.47	1.242	.7387E05	21.47	1.382	.1178E-04
22.22	1.238	.6391E-05	22.22	1.331	.9048E-05
22.97	1.161	.3819E-05	22.97	1.223	.5421E-05
23.72	1.163	.3399E-05	23.72	1.205	.4423E-05
24.47	1.091	.1682E-05	24.47	1.108	.2047E-05
25.22	1,057	.9405E-06	25.22	1.091	.1531E-05
25.97	1.048	.7030E-06	25.97	1.034	.5122E-06
26.72	1.023	.2987E-06	26.72	1.042	.5570E-06
27.47	1.008	.9642E-07	27.47	1.008	.9219E-07
28.22	1,010	.1024E-06	28,22	1.014	.1426E-06
28.97	1.000	1807E-08	28,97	1.028	.2622E-06
29.72	1.006	.4462E-07	29.72	.999	4949E-08
30.47	.993	5193E-07	30.47	1.022	.1595E-06
			31.22	.988	8054E-07
			31.97	.976	1367E-06

DATE 6,	/13/85		DATE 6/2	20/85	
HNORM	30.32 KM		HNORM 2	29.27 KM	
TROP	12.30 KM		TROP ]	2.40 KM	
INT BACK	KSCATTER .2	86E-03 SR**-1	INT BACKS	CATTER .2	71E-03 SR**-1
LEVELS	40		LEVELS	34	
HEIGHT,	SCATTERING	AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL
КМ	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4,22	1.110	.3775E-04	4.22	1.107	.3724E-04
4.97	1.173	.5497E-04	4.97	1.217	.6909E-04
5.72	1.105	.3050E-04	5.72	1.212	.6224E-04
6.47	1.086	.2289E-04	6.47	1.340	9196E-04
7 22	1 123	3022E-04	7 22	1 373	9254E-04
7 97	1 154	3499E-04	7 97	1 520	1189E-03
8 72	1 138	2901F-04	8 72	1 468	9881E-04
9 47	1,100	2180F-04	9 47	1 297	7714E-04
10 22	1 146	258/F-04	10 22	1 320	5705F-04
10.22	1 170	2304E-04	10.22	1 207	2276E-04
10,97	1 272	•2771 <u>5</u> -04 2001E-01	10.27	1.207	.33705-04 26957-04
	1.273	·33345-04	11.72	1 220	.2090E-04
12.4/	1,207	-3357E-04 2007E 04	12.47	1.230	.3131E-04
13.22	1.203	·323/6-04	13.22	1.204	-30726-04 3540B-04
13.9/	1.269	.2/9/E-04	13.97	1.343	.33485-04
14./2	1.313	.2885E-04	14.72	1.375	.34/9E-04
10.47	1,419	.3434 <u>5</u> -04	15,47	1.305	.3136E-04
10,22	1.4/0	·3468E-04	16.22	1.385	.201/6-04
10.9/	1.418	.2703E-04	10.9/	1.487	.31656-04
1/./2	1.507	.2909E-04	1/./2	1.500	.28835-04
18,4/	1.523	.2663E-04	18.4/	1.522	.26685-04
19.22	1.604	·2/25E-04	19.22	1.534	.2420E-04
19.9/	1,586	.23395-04	19.97	1.48/	.1953E-04
20,72	1.592	.2095E-04	20.72	1,485	.1/25E-04
21.4/	1.468	.14/4E-04	21.47	1.361	.1141E-04
22,22	1.366	.1026E-04	22.22	1.339	.9512E-05
22.97	1,303	.7499E-05	22.97	1,292	.7236E-05
23.72	1,198	.4320E-05	23.72	1.138	.3013E-05
24.47	1,148	.2864E-05	24.47	1.090	.1754E-05
25.22	1.107	.1843E-05	25.22	1.034	.5832E-06
25.97	1.063	.9585E-06	25.97	1.040	.6186E-06
26.72	1.045	.6070E-06	26.72	1.045	.6087E-06
27.47	1.057	.6840E-06	27.47	1.016	.1935E-06
28.22	1.049	.5258E-06	28.22	1.043	.4586E-06
28,97	1.061	.5831E-06	28,97	1.011	.1035E-06
29.72	1.046	.3891E-06			
30.47	1.009	.6609E-07			
31,22	1.020	.1320E-06			
31.97	1.033	.1939E-06			
32.72	1.025	.1317E-06			
33.47	.945	2618E-06			

DATE 6/	/26/85		DATE 7/	/ 9/85	
HNORM	29.12 KM		HNORM	28.22 KM	
TROP	12.80 KM		TROP	13.20 KM	
INT BACH	SCATTER	.196E-03 SR**-1	INT BACH	SCATTER .	241E-03 SR**-1
LEVELS	40		LEVELS	33	
HEIGHT,	SCATTERI N	IG AEROSOL	HEI GHT,	SCATTERI NO	G AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.176	.6008E-04	4.22	1.543	.1852E-03
4.97	1.250	.7920E-04	4.97	2.845	.5778E-03
5.72	1.172	.5036E-04	5.72	2.057	.3070E-03
6.47	1.244	.6558E-04	6.47	1.261	.7039E-04
7.22	1.193	.4800E-04	7.22	1.146	.3655E-04
7.97	1.139	.3208E-04	7.97	1.106	.2442E-04
8.72	1.116	.2459E-04	8.72	1.154	.3266E-04
9.47	1.116	.2281E-04	9.47	1.168	.3283E-04
10.22	1.116	.2082E-04	10.22	1.158	.2832E-04
10.97	1,131	.2152E-04	10,97	1.139	.2282E-04
11.72	1,136	.2029E-04	11.72	1,176	.2647E-04
12.47	1,127	.1727E-04	12.47	1,247	.3378E-04
13 22	1 180	2162E-04	13.22	1.256	3165E-04
13.97	1 105	1131E-04	13 97	1 217	2337E-04
14 72	1 186	1791E-04	14.72	1.284	2716E-04
15 47	1,301	2537E-04	15.47	1.373	3184E-04
16 22	1 313	2332E-04	16 22	1 387	2942E-04
16.97	1.340	2260E-04	16.97	1,465	.3125E-04
17 72	1 412	2428E-04	17.72	1.484	2870E-04
18.47	1,495	.2587E-04	18.47	1.466	.2454E-04
19.22	1,503	.2330E-04	19.22	1.538	.2514E-04
19.97	1,500	2051E-04	19,97	1.558	.2307E-04
20.72	1.469	1707E-04	20.72	1.541	.1967E-04
21 47	1 365	1176E-04	21 47	1 405	1302E-04
22.47	1 255	7230E-05	22.22	1.352	1001E-04
22.22	1 1 7 7	3321E-05	22.97	1 260	6531E-05
22.07	1 116	2563E-05	23 72	1 188	4172E-05
23.72	1 112	2184E-05	24 47	1 089	17538-05
25.27	1 081	13958-05	25 22	1 129	2257F-05
25.97	1.001	1071E-05	25.22	1.12	1767F-05
25.57	1 042	5747E-06	26 72	1 075	10288-05
20.72	1 024	2880E-06	20.72	1 054	6566F-06
27.47	1 033	3617E-06	28 22	1 000	- 2168F-08
20.22	1 006	.5641E-07	2	1.000	• 5100B 00
20.27	1 000	7641 E-07			
20.17	1 030	2337F-06			
21 22	1 000	16045-06			
21 07	1 005	.100₩ <u>0</u> =00 3178₽_07			
37.21	1.005 120	- JUVIE-01			
22.12	. 701 04F	- 1709F-06			
22.41	. 203	- • T 102E-00			

DATE 7,	/18/85		DATE 8/	3/85	
HNORM	30.62 KM		HNORM	28.22 KM	
TROP	16.00 KM		TROP	15.90 KM	
INT BAC	KSCATTER	.150E-03 SR**-1	INT BACK	SCATTER .	940E-04 SR**-1
LEVELS	38		LEVELS	33	
HEIGHT,	SCATTERIN	ig aerosol	HEI GHT ,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	КМ	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
	3 0 3 4	11667 04	C 17	1 104	
4.22	1.034		0.4/ 7 00	1.104	+ OUTOE04
4.97	1.266	.84116-04	7.22	1.233	.58806-04
5.72	1.599	.1/56E-03	7.97	1.076	.1/60E-04
6.47	1.191	.5147E-04	8.72	1.103	.2193E-04
7.22	1.146	.3642E-04	9.47	1.191	.3705E-04
7.97	1,192	.4402E-04	10.22	1.153	.2708E-04
8.72	1.167	.3544E-04	10.97	1.224	.3597E-04
9.47	1.152	.2963E-04	11.72	1.116	.1686E-04
10.22	1,144	.2567E-04	12.47	1.126	.1667E-04
10.97	1.215	.3529E-04	13.22	1.107	.1268E-04
11.72	1,178	.2669E-04	13.97	1.154	.1643E-04
12.47	1.130	.1763E-04	14.72	1.122	.1166E-04
13.22	1.145	.1764E-04	15.47	1,057	.4885E-05
13.97	1.147	.1617E-04	16.22	1.133	.1016E-04
14.72	1.164	.1607E-04	16.97	1,182	.1232E-04
15.47	1,251	.2195E-04	17.72	1.233	1400E-04
16 22	1,337	2608E-04	18.47	1.312	.1644E-04
16 97	1 377	2580E-04	19.22	1.377	.1747E-04
17 72	1 432	2608E-04	19 97	1 362	1488E-04
10 17	1,452	2420F-04	20 72	1 364	1323F-04
10.47	1,400	2204E-04	20.72	1 294	94405-05
19.22	1.400	10120-04	21.47	1 209	- 5925F-05
19.97	1.400		22.22	1,205	-00025E-05
20.72	1,005	16600 04	22. 17	1,110	1040E-05
21.47	1.403	.1569E-04	23.12	1,009	.1907E-05
22.22	1.41/	.12026-04	24.4/	1.033	.1941E-00
22.97	1.276	./0618-05	25.22	1.072	.1253E-U5
23.72	1.175	.3969E-05	25.97	1.090	.1403E-05
24.47	1.120	.2411E-05	26.72	1.045	.6192E-06
25,22	1.118	.2090E-05	27.47	1.089	.1098E-05
25.97	1.059	.9325E-06	28.22	1.000	.0000E+00
26.72	1.049	.6794E-06	28,97	1.010	.9763E-07
27.47	1.019	.2340E-06	29.72	1.081	.7005E-06
28.22	1.062	.6774E-06	30.47	1.074	.5736E-06
28.97	1.010	.9365E-07			
29,72	1.025	.2205E-06			
30.47	1.026	.2025E-06			
່ານ້ຳງ	000	41000 00			

31.22 .999 -.4126E-08 31.97 .944 -.3444E-06

DATE 11/	/ 7/85		DATE 12	/10/85	
HNORM	5.42 KM		HNORM	8.42 KM	
TROP	11.20 КМ		TROP	13.30 KM	
INT BACH	SCATTER .	181E-03 SR**-1	INT BACK	SCATTER	162E-03 SR**-1
LEVELS	36		LEVELS	36	
	50			30	
HEIGHT.	SCATTERI NO	, AEROSOL	HEIGHT.	SCATTERING	G AEROSOL
КМ	RATIO	BACKSCATTER.	КМ	RATIO	BACKSCATTER.
•		(KM-SR)**-]			(KM-SR)**-1
		(101 200) -			(1.1. 6.1.) 1
4.22	.947	1787E-04	4.22	1.123	.4333E-04
4.97	.978	6851E-05	4.97	1.026	.8549E-05
5.72	1.014	.4012E-05	5.72	1.032	.9537E-05
6.47	1.016	.4200E-05	6.47	1.020	.5551E-05
7.22	1.035	.8625E-05	7.22	1.036	.9073E-05
7.97	1.054	.1238E-04	7.97	1.001	.2800E-06
8.72	1.070	.1475E-04	8.72	1.007	.1412E-05
9.47	1.053	.1032E-04	9.47	1.051	.1010E-04
10.22	1.056	.1001E-04	10.22	1,635	.1141E-03
10.97	1.083	1332E-04	10.97	3,400	3943E-03
11 72	1,101	1454E-04	11.72	3,400	3552E-03
12 47	1,092	1170E-04	12 47	3,400	3237E-03
13 22	1 112	1290E-04	13 22	1 606	7308F-04
13.97	1,134	1390E-04	13.97	1,171	1801 E-04
14 72	1 219	2023E-04	14 72	1 152	14368-04
15 47	1 224	1869E-04	15 47	1 257	2133F-04
16 22	1 270	2003E-04	16 22	1 300	22218-04
16 97	1 340	2234E-04	16 97	1 313	2044F-04
17 72	1 304	2204D 04	17 70	1 407	22115-04
19.47	1 400	2068F-04	18 47	1 3/9	17805-04
10.47	1.400	1053F-01	10.47	1.345	.1700E~04
19.22	1.427	1502E-04	19.22	1 217	130/E-04
20 72	1.375	9196F-05	20 72	1 201	.1244 <u>5</u> -04 1044 <u>p</u> -04
20.72	1 125	.9190E-05	20.72	1 244	-1044E-04 7460R 05
21.47	1.135	.4139E-00	21.47	1.244	.7460E-05
22.22	1.0/1	.1932E-US	22.22	1.199	.5366E-U5
22.97	1.069	.1647E-US	22.97	1.140	.3331E-U5
23.72	1.064	.134/E-05	23.72	1.076	.15998-05
24.47	1.035	.6694E-06	24.4/	1.125	.22998-05
25.22	1.061	.10145-05	25.22	1.156	.2519E-05
25.97	1.093	.13/48-05	25.97	1.1/4	.2508E-05
26.72	1.094	.1243E-05	26.72	1.130	.1671E-05
27.47	1.092	.1082E-05	27.47	1.106	.1223E-05
28.22	1.132	.13/5E-05	28.22	1.113	.1159E-05
28.97	1.139	.1285E-05	28.97	1.084	.7692E-06
29.72	1.152	.1249E-05	29.72	1.091	.7406E-06
30.47	1.134	.9796E-06	30.47	1.064	.4685E-06

TROP INT BACILEVELS	27.62 KM 8.90 KM KSCATTER .3 36	24E-03 SR**-1	TROP I INT BACKS LEVELS	10.40 KM SCATTER . 38	224E-03 SR**-1
HEI GHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, S KM	SCATTERING RATIO	; AEROSOL BACKSCATTER, (KM-SR)**-1
4.22	1.022	.7711E-05	4.22	1.008	.2771E-05
4.97	1.038	.1255E-04	4.97	1.110	.3496E-04
5.72	1.041	.1226E-04	5.72	1.186	.5471E-04
6.47	1.033	.9152E-05	6.47	1.120	.3275E-04
7.22	1.038	.9709E-05	7.22	1.129	.3247E-04
7.97	1.058	.1351E-04	7.97	1.106	.2466E-04
8.72	1.077	.1630E-04	8.72	1.063	.1334E-04
9.47	1.089	.1675E-04	9.47	1.048	.9314E-05
10.22	1.187	.3112E-04	10.22	1.089	.1570E-04
10.97	1,275	.4045E-04	10.97	1.175	.2734E-04
11.72	1.279	.3687E-04	11.72	1.257	.3504E-04
12.47	1.331	.3903E-04	12.47	1.204	.2456E-04
13.22	1.333	.3531E-04	13.22	1.201	.2178E-04
13.97	1.300	.2854E-04	13.97	1.203	.1968E-04
14.72	1,377	.3197E-04	14.72	1.246	.2116E-04
15.47	1.426	.3220E-04	15.47	1.223	.1728E-04
16.22	1.411	.2780E-04	16.22	1.355	.2475E-04
16.97	1.408	.2471E-04	16.97	1.390	.2382E-04
17.72	1.362	.1936E-04	17.72	1.353	.1920E-04
18.47	1.290	.1396E-04	18.47	1.300	.1455E-04
19.22	1.340	.1439E-04	19.22	1.305	.1320E-04
19.97	1.317	.1194E-04	19.97	1.265	.1016E-04
20.72	1.264	.8824E-05	20.72	1.229	.7706E-05
21.47	1.167	.4915E-05	21.47	1,151	.4536E-05
22.22	1.135	.3540E-05	22.22	1.147	.3916E-05
22.97	1.096	.2241E-05	22.97	1.099	.2346E-05
23.72	1.115	.2369E-05	23.72	1.102	.2148E-05
24.47	1.099	.1807E-05	24.47	1.084	.1580E-05
25.22	1.097	.1572E-05	25.22	1.105	.1737E-05
25.97	1.074	.1062E-05	25.97	1.052	.7635E-06
26.72	1.051	.6528E-06	26.72	1.040	.5183E-06
27.47	1.007	.8126E-07	27.47	1.011	.1318E-06
28,22	1.007	./394E-07	28.22	.970	3119E-06
28.97	.995	40/0E-07	28,97	.960	3647E-06
29.72	T.010	.12/4E-U6	29.72	.898	8132E-06
30.4/	.963	20135-06	30.47	.8/4	0090E-06
			31.22	.914	5354E-U6

DATE 4 HNORM	/29/86 6.92 КМ		DATE 4/ HNORM	30/86 28.52 КМ	
TROP	12.60 KM		TROP	13.60 KM	
INT BAC	KSCATTER .2	209E-03 SR**-1	INT BACK	SCATTER .	168E-03 SR**-1
LEVELS	40		LEVELS	35	
HEIGHT,	SCATTERING	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.045	.1556E-04	4.22	1.169	.5856E-04
4.97	1.020	.6485E-05	4.97	1.601	.1923E-03
5.72	1.030	.8899E-05	5.72	2.127	.3328E-03
6.47	1.058	.1588E-04	6.47	2,115	.3043E-03
7.22	1.039	.9838E-05	7.22	1.785	.1982E-03
7.97	1.147	.3394E-04	7,97	1.376	.8730E-04
8.72	1.117	.2490E-04	8.72	1.084	.1809E-04
9.47	1.112	.2207E-04	9.47	1.055	.1079E-04
10.22	1.136	.2445E-04	10.22	1.152	.2693E-04
10.97	1.154	.2504E-04	10.97	1.205	.3269E-04
11.72	1.189	.2798E-04	11.72	1.243	.3503E-04
12.47	1.921	.1236E-03	12.47	1.234	.3036E-04
13.22	1.205	.2441E-04	13.22	1.213	.2476E-04
13.97	1.140	.1482E-04	13,97	1.191	.1969E-04
14.72	1.112	.1045E-04	14.72	1.179	.1650E-04
15.47	1.095	.7899E−05	15.47	1.258	.2123E-04
16.22	1.155	.1142E-04	16.22	1,254	.1871E-04
16.97	1.293	.1917E-04	16,97	1.263	.1716E-04
17.72	1.404	.2344E-04	17.72	1.347	.2005E-04
18.47	1.764	.3922E-04	18.47	1.497	.2541E-04
19.22	1.543	.2471E-04	19.22	1.688	.3129E-04
19.97	1.426	.1716E-04	19.97	1.423	.1688E-04
20.72	1.239	.8509E05	20.72	1.338	.1185E-04
21.47	1.159	.5019E-05	21.47	1.213	.6629E-05
22.22	1.128	.3552E-05	22.22	1.213	.5899E-05
22.97	1.133	.3216E-05	22.97	1.152	.3709E-05
23.72	1.121	.2595E-05	23.72	1.154	.3309E-05
24.47	1.119	.2272E-05	24,47	1.122	.2315E-05
25.22	1.090	.1513E-05	25.22	1.118	.1974E-05
25.97	1.089	.1322E-05	25.97	1.103	.1528E-05
26.72	1.054	.7122E-06	26.72	1.096	.1255E-05
27.47	1.041	.4857E-06	27.47	1.066	.7642E-06
28.22	1.023	.2430E-06	28.22	1.024	.2486E-06
28.97	1.025	.2331E-06	28,97	1.003	.2386E-07
29.72	1.025	.2026E-06	29.72	1.014	.1160E-06
30.47	1.042	.3086E-06			
31.22	1.004	.2467E-07			
31,97	1.016	.9266E-07			
32.72	.990	5216E-07			
33.47	1.025	<b>.</b> 1134 <b>E</b> -06			

DATE 5, HNORM TROP INT BACH LEVELS	/ 6/86 28.52 KM 13.80 KM KSCATTER .3 35	123E-03 SR**-1	DATE 5/ HNORM TROP INT BACK LEVELS	13/86 26.42 KM 12.40 KM SCATTER .1 38	54E-03 SR**-1
HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.22 19.97 20.72 21.47 22.22 23.72 24.47 25.22 25.97 26.72 27.47 28.97 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72 29.72	.946 1.030 .999 1.018 1.093 1.137 1.114 1.082 1.084 1.013 1.041 1.051 1.190 1.207 1.130 1.174 1.209 1.205 1.255 1.243 1.412 1.579 1.294 1.194 1.096 1.078 1.070 1.060 1.032 1.059 1.063 1.042 1.012 1.005 .962	1863E-04 .9413E-05 2362E-06 .5043E-05 .2352E-04 .3201E-04 .2460E-04 .1626E-04 .1525E-04 .1525E-04 .2142E-05 .6203E-05 .6897E-05 .2304E-04 .1231E-04 .1231E-04 .1449E-04 .1531E-04 .1328E-04 .1328E-04 .1226E-04 .1836E-04 .1226E-04 .1836E-04 .1022E-04 .5965E-05 .2609E-05 .1887E-05 .1486E-05 .1125E-05 .5317E-06 .8728E-06 .8294E-06 .1244E-06 .1244E-06 .1244E-06 .1244E-06	4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.22 19.97 20.72 21.47 22.22 22.97 23.72 24.47 25.22 25.97 26.72 27.47 28.22 28.97 29.72 30.47	1.857 1.516 1.495 1.503 1.558 1.605 1.556 1.546 1.898 3.000 2.911 2.639 1.237 1.168 1.290 1.322 1.436 1.290 1.322 1.436 1.323 1.194 1.323 1.194 1.094 1.075 1.094 1.075 1.044 1.075 1.044 1.075 1.044 1.075 1.044 1.075 1.043 1.076 1.058 1.043 1.017 1.080 1.067 .996 .978 .941	.2957E-03 .1645E-03 .1444E-03 .1348E-03 .1348E-03 .1383E-03 .169E-03 .1058E-03 .1598E-03 .2201E-03 .2806E-04 .1749E-04 .1749E-04 .1749E-04 .2370E-04 .236E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-04 .1858E-05 .2907E-05 .2023E-05 .2505E-05 .1777E-05 .1455E-05 .9987E-06 .6410E-06 .2303E-06 .9450E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082E-06 .7082
			31.22 31.97	.947 .957	3465E-06 2513E-06

$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	DATE 6/	′ 4/86		DATE 6/	10/86	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	HNORM	7.22 KM		HNORM	8.12 KM	
INT BACKSCATTER .115E-03 SR**-1 LEVELS 38 HEIGHT, SCATTERING AEROSOL KM RATIO BACKSCATTER, (KM-SR)**-1 4.22 1.064 .2196E-04 HEIGHT, SCATTERING AEROSOL KM RATIO BACKSCATTER, (KM-SR)**-1 4.22 1.064 .2196E-04 4.22 .9777933E-05 4.97 1.052 .1646E-04 4.97 1.043 .1341E-04 5.72 1.033 .9608E-05 5.72 1.027 .7834E-05 6.47 1.023 .6125E-05 6.47 1.051 .1366E-04 7.22 1.000 .0000E+00 7.22 1.001 .2998E-06 7.97 1.027 .6210E-05 7.97 1.002 .5508E-06 8.72 1.033 .1047E-04 9.47 2.777 .3456E-03 10.22 1.124 .2248E-04 10.22 3.000 .3584E-03 10.97 1.053 .1047E-04 9.47 2.777 .3456E-03 10.22 1.124 .2248E-04 10.22 3.000 .3584E-03 10.32 1.124 .2248E-04 10.22 3.000 .3584E-03 11.72 1.062 .9308E-05 11.72 1.941 .1423E-03 12.47 1.053 .1047E-04 12.47 1.180 .2453E-03 13.77 1.103 .1142E-04 13.97 1.020 .2180E-05 13.97 1.103 .1142E-04 13.97 1.020 .2180E-05 14.72 1.091 .9024E-05 14.72 1.036 .3624E-05 15.47 1.156 .1368E-04 15.47 1.040 .3673E-05 16.22 1.181 .1386E-04 16.27 1.033 .432E-05 16.47 1.294 .1549E-04 12.24 .123 .1327E-04 17.72 1.311 .1858E-04 15.47 1.040 .3673E-05 16.47 1.294 .1549E-04 18.47 1.245 .1336E-04 19.92 1.313 .116E-04 17.72 1.213 .1327E-04 19.92 1.313 .116E-04 19.97 1.295 .1216E-04 19.22 1.330 .1571E-04 19.92 1.343 .1562E-04 19.77 1.245 .1336E-04 19.92 1.343 .1562E-04 19.97 1.295 .2126E-04 22.47 1.492 .1553E-04 21.47 1.099 .1571E-04 19.97 1.359 .1443B-04 19.97 1.292 .9449E-05 22.97 1.064 .3565E-05 22.97 1.067 .3759E-06 23.72 1.64 .3565E-05 22.97 1.067 .3759E-06 24.47 1.492 .1553E-04 21.47 1.292 .9449E-05 22.97 1.163 .4030E-05 22.97 1.067 .8759E-06 23.72 1.64 .3565E-05 22.97 1.057 .8759E-06 24.47 1.059 .703B-05 22.92 1.045 .4448E-05 24.97 1.051 .1214E-06 24.97 1.052 .1244E-05 26.72 1.048 .6609E-06 27.47 1.059 .703B-06 27.47 1.011 .1310E-06 24.97 1.052 .2245E-06 28.97 1.014 .1299E-06 29.72 1.064 .5404E-06 28.97 1	TROP	15.30 KM		TROP	16.50 KM	
LEVELS 38 LEVELS 38 HEIGHT, SCATTERING AEROSOL MEIGHT, SCATTERING AEROSOL BACKSCATTER, (KM-SR)**-1 4.22 1.064 .2196E-04 4.22 .9777933E-05 4.97 1.052 .1646E-04 4.97 1.043 .1341E-04 5.72 1.033 .9608E-05 5.72 1.027 .7834E-05 6.47 1.023 .6125E-05 6.47 1.051 .1366E-04 7.22 1.000 .0000E+00 7.22 1.001 .2989E-06 7.77 1.027 .6210E-05 7.97 1.002 .5508E-06 8.72 1.048 .1018E-04 8.72 1.681 .1435E-03 9.47 1.053 .1047E-04 9.47 2.777 .3456E-03 10.22 1.124 .2248E-04 10.22 3.000 .3584E-03 10.97 1.153 .2534E-04 10.97 2.998 .3302E-03 11.72 1.062 .9308E-05 11.72 1.941 .1423E-03 12.47 1.093 .1274E-04 13.97 1.020 .21808E-05 14.72 1.091 .924E-05 14.72 1.041 .5047E-05 13.97 1.103 .1142E-04 13.97 1.020 .2180E-05 14.72 1.091 .924E-05 14.72 1.036 .3624E-05 15.47 1.156 .1368E-04 16.27 1.036 .3624E-05 15.47 1.103 .1142E-04 13.97 1.020 .2180E-05 14.72 1.091 .9024E-05 14.72 1.036 .3624E-05 15.47 1.156 .1368E-04 16.97 1.141 .1003E-04 17.72 1.311 .1858E-04 15.47 1.040 .3673E-05 16.97 1.217 .4648E-04 16.97 1.141 .1003E-04 17.72 1.311 .1858E-04 15.47 1.040 .3673E-05 16.97 1.217 .1468E-04 16.97 1.141 .1003E-04 17.72 1.311 .1858E-04 15.47 1.245 .13327E-04 18.47 1.294 .1549E-04 18.47 1.245 .13327E-04 19.97 1.359 .1443E-04 19.97 1.292 .9449E-05 12.47 1.292 .1343 .1166E-04 20.72 1.413 .1507E-04 19.92 1.313 .116E-04 20.72 1.413 .1507E-04 19.92 1.313 .116E-04 20.72 1.413 .1507E-04 22.97 1.63 .4332E-05 22.97 1.094 .2366E-05 23.72 1.164 .3565E-05 22.97 1.094 .2366E-05 23.72 1.164 .3565E-05 22.72 1.048 .6609E-05 23.72 1.164 .3565E-05 22.72 1.048 .6609E-05 23.72 1.164 .3565E-05 22.72 1.048 .6609E-05 23.72 1.164 .3565E-05 22.72 1.048 .6609E-06 23.72 1.042 .4492E-06 26.72 1.043 .6609E-06 24.47 1.032 .2436E-06 28.97 1.014 .1299E-06 24.97 1.053 .4332E-05 25.97 1.057 .8759E-06 24.97 1.054 .24492E-06 28.72 1.048 .6609E-06 24.97 1.054 .2042E-05 25.72 1.048 .6609E-05 23.72 1.064 .5404E-06 28.72 1.048 .6609E-06 24.97 1.054 .042 .492E-06 28.97 1.014 .1299E-06 24.97 1.054 .24492E-06 28.97 1.014 .1299E-06 24.97 1.052 .24	INT BACK	SCATTER .1	15E-03 SR**-1	INT BACK	SCATTER .	770E-04 SR**-1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	LEVELS	38		LEVELS	38	
HEI GHT, SCATTERING         ARROSOL         HEI GHT, SCATTERING         RAROSOL         BACKSCATTER, (KM-SR)**-1         HEI GHT, SCATTERING         BACKSCATTER, (KM-SR)**-1           4.22         1.064         .2196E-04         4.22         .977        7933E-05           4.97         1.052         .1646E-04         4.97         1.043         .1341E-04           5.72         1.033         .9608E-05         5.72         1.027         .7834E-05           6.47         1.023         .6125E-05         6.47         1.051         .1366E-04           7.22         1.001         .0000E+00         7.22         1.001         .2989E-06           7.97         1.027         .6210E-05         7.97         1.002         .5508E-06           8.72         1.048         .1018E-04         8.72         1.681         .1435E-03           9.47         1.053         .1047E-04         10.22         3.000         .3548E-03           10.22         1.124         .2248E-04         10.22         3.002         .3548E-03           11.72         1.093         .1274E-04         12.247         1.463         .5477           13.22         1.091         .9024E-05         14.72         .036         .3624E-05						
KMRATIOBACKSCATTER, (KM-SR)**-1KMRATIOBACKSCATTER, (KM-SR)**-1 $4.22$ 1.064.2196E-04 $4.22$ .977 $7933E-05$ $4.97$ 1.052.1646E-04 $4.97$ 1.043.1341E-04 $5.72$ 1.033.9608E-05 $5.72$ 1.027.7834E-05 $6.47$ 1.023.6125E-05 $6.47$ 1.051.1366E-04 $7.22$ 1.000.0000E+00 $7.22$ 1.001.2989E-06 $7.77$ 1.027.6210E-05 $7.97$ 1.002.5508E-06 $8.72$ 1.048.1018E-04 $8.72$ 1.681.1435E-03 $10.22$ 1.124.2248E-0410.223.000.3584E-03 $10.97$ 1.153.2534E-0410.972.998.3302E-03 $11.72$ 1.062.9308E-0511.721.941.1423E-03 $12.47$ 1.093.1274E-0412.471.180.2453E-04 $13.97$ 1.103.1142E-0413.221.041.5073E-05 $14.72$ 1.091.9024E-0514.721.036.3624E-05 $15.47$ 1.156.1368E-0416.971.141.1003E-04 $17.72$ 1.311.1368E-0416.971.141.1003E-04 $17.72$ 1.313.1562E-0419.92.1330.1571E-04 $19.97$ 1.226.1433.1562E-0419.22.1330.1571E-04 $19.72$ 1.343.1562E-0522.72.1445.4148E-05 $22.22$ 1.258	HEIGHT,	SCATTERI NG	AEROSOL	HEI GHT ,	SCATTERI NG	AEROSOL
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			(KM-SR)**-1			(KM-SR)**-1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 00	3.064	01067 04		0.77	20222 05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.22	1.064	.21966-04	4.22	.9//	/933E-U5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.97	1.052	.16468-04	4.97	1.043	.1341E-04
6.47 $1.023$ $.6125E-05$ $6.47$ $1.051$ $.1366E-04$ $7.22$ $1.001$ $.0000E+00$ $7.22$ $1.001$ $.2989E-06$ $8.72$ $1.048$ $.1018E-04$ $8.72$ $1.681$ $.1435E-03$ $9.47$ $1.053$ $.1047E-04$ $9.47$ $2.777$ $.3456E-03$ $10.22$ $1.124$ $.2248E-04$ $10.22$ $.3000$ $.3584E-03$ $10.97$ $1.153$ $.2534E-04$ $10.97$ $2.998$ $.3302E-03$ $11.72$ $1.062$ $.9308E-05$ $11.72$ $1.941$ $.1423E-03$ $12.47$ $1.093$ $.1274E-04$ $13.97$ $1.020$ $.2180E-05$ $13.97$ $1.103$ $.1142E-04$ $13.97$ $1.020$ $.2180E-05$ $14.72$ $1.091$ $.9024E-05$ $14.72$ $1.036$ $.3624E-05$ $15.47$ $1.156$ $.1368E-04$ $16.22$ $1.053$ $.4332E-05$ $16.97$ $1.217$ $.1468E-04$ $16.97$ $1.213$ $.1327E-04$ $18.47$ $1.294$	5.72	1.033	.9608E-05	5.72	1.027	.7834E-05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6.4/	1.023	.6125E-05	6.47	1.051	.1366E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.22	1.000	.0000E+00	7.22	1.001	.2989E-06
8.72 $1.048$ $.1018E-04$ $8.72$ $1.681$ $.1435E-03$ $9.47$ $1.053$ $.1047E-04$ $9.47$ $2.777$ $.3456E-03$ $10.22$ $1.124$ $.2248E-04$ $10.22$ $3.000$ $.3584E-03$ $10.97$ $1.153$ $.2534E-04$ $10.97$ $2.998$ $.3302E-03$ $11.72$ $1.062$ $.9308E-05$ $11.72$ $1.941$ $.1423E-03$ $12.47$ $1.093$ $.1274E-04$ $12.47$ $1.180$ $.2453E-04$ $13.22$ $1.090$ $.1113E-04$ $13.22$ $1.041$ $.5047E-05$ $13.97$ $1.103$ $.1142E-04$ $13.97$ $1.020$ $.2180E-05$ $14.72$ $1.091$ $.9024E-05$ $14.72$ $1.036$ $.3624E-05$ $15.47$ $1.156$ $.1368E-04$ $16.22$ $1.053$ $.4332E-05$ $16.22$ $1.181$ $.1386E-04$ $16.97$ $1.141$ $.1003E-04$ $17.72$ $1.217$ $.1468E-04$ $16.97$ $1.141$ $.1003E-04$ $19.22$ $1.343$ $.1562E-04$ $19.22$ $.1330$ $.1571E-04$ $19.97$ $1.359$ $.1443E-04$ $19.97$ $1.295$ $.1216E-04$ $20.72$ $1.313$ $.116E-04$ $20.72$ $.4148E-05$ $22.97$ $1.63$ $.4030E-05$ $22.97$ $.094$ $.2366E-05$ $23.72$ $1.64$ $.3565E-05$ $23.72$ $.089$ $.1962E-05$ $24.47$ $1.35$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $22.21$ $.026$	7.97	1.027	.6210E-05	7.97	1.002	.5508E-06
9.471.053.1047E-049.472.777.3456E-0310.221.124.2248E-0410.223.000.3584E-0310.971.153.2534E-0410.972.998.3302E-0311.721.062.9308E-0511.721.941.1423E-0312.471.093.1274E-0412.471.180.2453E-0413.221.090.1113E-0413.221.041.5047E-0513.971.103.1142E-0413.971.020.2180E-0514.721.091.9024E-0514.721.040.3673E-0516.221.181.1366E-0416.221.053.4332E-0516.221.181.1366E-0416.971.141.1003E-0417.721.311.1858E-0417.72.1336E-0419.221.343.1562E-0419.221.330.1571E-0419.971.359.1443E-0419.971.295.1216E-0420.721.313.1116E-0420.721.413.1507E-0421.471.492.153E-0421.47.292.9449E-0522.221.258.7209E-0522.971.094.2366E-0523.721.163.4030E-0522.971.094.2366E-0523.721.64.3565E-0523.721.089.192E-0524.471.135.2607E-0524.471.092.1790E-0525.221.086.1438E-0525.97.057.8759E-0625.971.090.1	8.72	1.048	.1018E-04	8.72	1.681	.1435E-03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9.47	1.053	.1047E-04	9.47	2.777	.3456E-03
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10.22	1.124	.2248E-04	10.22	3.000	.3584E-03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.97	1.153	.2534E-04	10.97	2,998	.3302E-03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.72	1.062	.9308E-05	11.72	1.941	.1423E-03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12.47	1.093	.1274E-04	12,47	1.180	.2453E-04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.22	1.090	.1113E-04	13.22	1.041	.5047E-05
14.72 $1.091$ $.9024E-05$ $14.72$ $1.036$ $.3624E-05$ $15.47$ $1.156$ $.1368E-04$ $15.47$ $1.040$ $.3673E-05$ $16.22$ $1.181$ $.1386E-04$ $16.22$ $1.053$ $.4332E-05$ $16.97$ $1.217$ $.1468E-04$ $16.97$ $1.141$ $.1003E-04$ $17.72$ $1.311$ $.1858E-04$ $17.72$ $1.213$ $.1327E-04$ $18.47$ $1.294$ $.1549E-04$ $18.47$ $1.245$ $.1336E-04$ $19.22$ $1.343$ $.1562E-04$ $19.22$ $1.330$ $.1571E-04$ $19.97$ $1.359$ $.1443E-04$ $19.97$ $1.295$ $.1216E-04$ $20.72$ $1.313$ $.1116E-04$ $20.72$ $1.413$ $.1507E-04$ $21.47$ $1.492$ $.1553E-04$ $21.47$ $1.292$ $.9449E-05$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $.1448E-05$ $22.97$ $1.163$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.335$ $.2607E-05$ $24.47$ $1.992$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.094$ $.1264E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.4492E-06$ $28.27$ $1.014$ $.1299E-06$ $29.72$ <td>13.97</td> <td>1.103</td> <td>.1142E-04</td> <td>13.97</td> <td>1.020</td> <td>.2180E-05</td>	13.97	1.103	.1142E-04	13.97	1.020	.2180E-05
15.47 $1.156$ $.1368E-04$ $15.47$ $1.040$ $.3673E-05$ $16.22$ $1.181$ $.1386E-04$ $16.22$ $1.053$ $.4332E-05$ $16.97$ $1.217$ $.1468E-04$ $16.97$ $1.141$ $.1003E-04$ $17.72$ $1.311$ $.1858E-04$ $17.72$ $1.213$ $.1327E-04$ $18.47$ $1.294$ $.1549E-04$ $18.47$ $1.245$ $.1336E-04$ $19.22$ $1.343$ $.1562E-04$ $19.22$ $1.330$ $.1571E-04$ $19.97$ $1.359$ $.1443E-04$ $19.97$ $1.295$ $.1216E-04$ $20.72$ $1.313$ $.1116E-04$ $20.72$ $1.413$ $.1507E-04$ $21.47$ $1.492$ $.153E-04$ $21.47$ $1.292$ $.9449E-05$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $1.145$ $.4148E-05$ $22.97$ $1.163$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.35$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.97$ $1.076$ $.1321E-05$ $25.97$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.27$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $29.72$ $1.014$ $.1299E-06$ <	14.72	1.091	.9024E-05	14.72	1.036	.3624E-05
16.22 $1.181$ $1.1386E-04$ $16.22$ $1.053$ $.4332E-05$ $16.97$ $1.217$ $.1468E-04$ $16.97$ $1.141$ $.1003E-04$ $17.72$ $1.311$ $.1858E-04$ $17.72$ $1.213$ $.1327E-04$ $18.47$ $1.294$ $.1549E-04$ $18.47$ $1.245$ $.1336E-04$ $19.22$ $1.343$ $.1562E-04$ $19.22$ $1.330$ $.1571E-04$ $19.97$ $1.359$ $.1443E-04$ $19.97$ $1.295$ $.1216E-04$ $20.72$ $1.313$ $.1116E-04$ $20.72$ $1.413$ $.1507E-04$ $21.47$ $1.492$ $.153E-04$ $21.47$ $1.292$ $.9449E-05$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $.1445$ $.4148E-05$ $22.97$ $1.63$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.97$ $1.042$ $.3944E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $28.97$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$	15.47	1.156	.1368E-04	15.47	1.040	.3673E-05
16.97 $1.217$ $1468E-04$ $16.97$ $1.141$ $1003E-04$ $17.72$ $1.311$ $1858E-04$ $17.72$ $1.213$ $1327E-04$ $18.47$ $1.294$ $1549E-04$ $18.47$ $1.245$ $1336E-04$ $19.22$ $1.343$ $1562E-04$ $19.22$ $1.330$ $1571E-04$ $19.97$ $1.359$ $1443E-04$ $19.97$ $1.295$ $1216E-04$ $20.72$ $1.313$ $1116E-04$ $20.72$ $1.413$ $1507E-04$ $21.47$ $1.492$ $1553E-04$ $21.47$ $1.292$ $9449E-05$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $1.145$ $4148E-05$ $22.97$ $1.163$ $4030E-05$ $22.97$ $1.094$ $2366E-05$ $23.72$ $1.164$ $3565E-05$ $23.72$ $1.089$ $1962E-05$ $24.47$ $1.135$ $2607E-05$ $24.47$ $1.092$ $1790E-05$ $25.22$ $1.086$ $1483E-05$ $25.22$ $1.076$ $1321E-05$ $25.77$ $1.094$ $1264E-05$ $26.72$ $1.048$ $6609E-06$ $27.47$ $1.094$ $1264E-05$ $26.72$ $1.048$ $6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $3661E-07$ $28.97$ $1.042$ $.3944E-06$ $29.72$ $1.015$ $1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $29.72$ $1.018$ </td <td>16.22</td> <td>1,181</td> <td>.1386E-04</td> <td>16.22</td> <td>1.053</td> <td>-4332E-05</td>	16.22	1,181	.1386E-04	16.22	1.053	-4332E-05
17.721.311.1858E-0417.721.213.1327E-0418.471.294.1549E-0418.471.245.1336E-0419.221.343.1562E-0419.221.330.1571E-0419.971.359.1443E-0419.971.295.1216E-0420.721.313.1116E-0420.721.413.1507E-0421.471.492.1553E-0421.471.292.9449E-0522.221.258.7209E-0522.221.145.4148E-0522.971.163.4030E-0522.971.094.2366E-0523.721.164.3565E-0523.721.089.1962E-0524.471.135.2607E-0524.471.092.1790E-0525.221.086.1483E-0525.971.057.8759E-0626.721.094.1264E-0526.721.048.6609E-0627.471.059.7003E-0627.471.011.1310E-0628.221.042.4492E-0628.971.014.1299E-0629.721.064.5404E-0629.721.015.1214E-0630.471.032.2436E-0630.471.036.2640E-0631.97.9811163E-0631.97.9801193E-06	16,97	1.217	.1468E-04	16.97	1,141	1003E-04
18.47 $1.294$ $.1549E-04$ $18.47$ $1.245$ $.1336E-04$ $19.22$ $1.343$ $.1562E-04$ $19.22$ $1.330$ $.1571E-04$ $19.97$ $1.359$ $.1443E-04$ $19.97$ $1.295$ $.1216E-04$ $20.72$ $1.313$ $.1116E-04$ $20.72$ $1.413$ $.1507E-04$ $21.47$ $1.492$ $.1553E-04$ $21.47$ $1.292$ $.9449E-05$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $1.145$ $.4148E-05$ $22.97$ $1.163$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $29.72$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.97$ $.980$ $1193E-06$	17.72	1.311	.1858E-04	17.72	1.213	.1327E-04
19.221.343.1562E-0419.221.330.1571E-0419.971.359.1443E-0419.971.295.1216E-0420.721.313.1116E-0420.721.413.1507E-0421.471.492.1553E-0421.471.292.9449E-0522.221.258.7209E-0522.221.145.4148E-0522.971.163.4030E-0522.971.094.2366E-0523.721.164.3565E-0523.721.089.1962E-0524.471.135.2607E-0524.471.092.1790E-0525.221.086.1483E-0525.221.076.1321E-0525.971.090.1361E-0525.971.057.8759E-0626.721.094.1264E-0526.721.048.6609E-0627.471.059.7003E-0627.471.011.1310E-0628.221.042.4492E-0628.221.003.3661E-0728.971.042.3944E-0629.721.014.1299E-0629.721.064.5404E-0629.721.015.1214E-0630.471.032.2436E-0630.471.036.2640E-0631.97.9811163E-0631.97.9801193E-06	18.47	1.294	.1549E-04	18.47	1.245	.1336E-04
19.971.359.1443E-0419.971.295.1216E-0420.721.313.1116E-0420.721.413.1507E-0421.471.492.1553E-0421.471.292.9449E-0522.221.258.7209E-0522.221.145.4148E-0522.971.163.4030E-0522.971.094.2366E-0523.721.164.3565E-0523.721.089.1962E-0524.471.135.2607E-0524.471.092.1790E-0525.221.086.1483E-0525.221.076.1321E-0525.971.090.1361E-0525.971.057.8759E-0626.721.094.1264E-0526.721.048.6609E-0627.471.059.7003E-0627.471.011.1310E-0628.221.042.4492E-0628.221.003.3661E-0728.971.042.3944E-0629.721.014.1299E-0629.721.064.5404E-0629.721.015.1214E-0630.471.032.2436E-0630.471.036.2640E-0631.221.018.1232E-0631.221.009.6218E-0731.97.9811163E-0631.97.9801193E-06	19.22	1,343	1562E-04	19 22	1 330	1571E-04
20.721.313.1116E-0420.721.413.1507E-0421.471.492.1553E-0421.471.292.9449E-0522.221.258.7209E-0522.221.145.4148E-0522.971.163.4030E-0522.971.094.2366E-0523.721.164.3565E-0523.721.089.1962E-0524.471.135.2607E-0524.471.092.1790E-0525.221.086.1483E-0525.221.076.1321E-0525.971.090.1361E-0525.971.057.8759E-0626.721.094.1264E-0526.721.048.6609E-0627.471.059.7003E-0627.471.011.1310E-0628.221.042.4492E-0628.221.003.3661E-0728.971.042.3944E-0629.721.015.1214E-0630.471.032.2436E-0630.471.036.2640E-0631.97.9811163E-0631.97.9801193E-06	19 97	1 359	1443F-04	19 97	1 295	1216F-04
20.72 $1.413$ $1.413$ $1.413$ $1.413$ $1.413$ $21.47$ $1.492$ $.1553E-04$ $21.47$ $1.292$ $.9449E-05$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $1.145$ $.4148E-05$ $22.97$ $1.163$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	20 72	1 313	11165-04	20.72	1 413	1507F-04
21.47 $1.252$ $1.252$ $1.252$ $1.4552$ $1.252$ $22.22$ $1.258$ $.7209E-05$ $22.22$ $1.145$ $.4148E-05$ $22.97$ $1.163$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $29.72$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	21 47	1 492	15537-04	20.72	1 292	9449F-05
22.97 $1.163$ $.4030E-05$ $22.97$ $1.094$ $.2366E-05$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $29.72$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	22.47	1 258	7209F-05	21.47	1.272	· /1/8F-05
22.97 $1.163$ $.4030E-03$ $22.97$ $1.094$ $.2366E-03$ $23.72$ $1.164$ $.3565E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $28.97$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	22.22	1 162	1020B-05	22.22	1.140	- 4140B-05
23.72 $1.164$ $.3563E-05$ $23.72$ $1.089$ $.1962E-05$ $24.47$ $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $28.97$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	22.27	1.105	.40306-03 25650 05	22.31	1.094	-2300E-03
24.47 $1.135$ $.2607E-05$ $24.47$ $1.092$ $.1790E-05$ $25.22$ $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $28.97$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	23.12	1,104	.3303E-03	23.12	1,002	.1902E-05
25.22 $1.086$ $.1483E-05$ $25.22$ $1.076$ $.1321E-05$ $25.97$ $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $28.97$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	24.47	1.135	.20076-05	24.4/	1.092	.1/906-05
25.97 $1.090$ $.1361E-05$ $25.97$ $1.057$ $.8759E-06$ $26.72$ $1.094$ $.1264E-05$ $26.72$ $1.048$ $.6609E-06$ $27.47$ $1.059$ $.7003E-06$ $27.47$ $1.011$ $.1310E-06$ $28.22$ $1.042$ $.4492E-06$ $28.22$ $1.003$ $.3661E-07$ $28.97$ $1.042$ $.3944E-06$ $28.97$ $1.014$ $.1299E-06$ $29.72$ $1.064$ $.5404E-06$ $29.72$ $1.015$ $.1214E-06$ $30.47$ $1.032$ $.2436E-06$ $30.47$ $1.036$ $.2640E-06$ $31.22$ $1.018$ $.1232E-06$ $31.22$ $1.009$ $.6218E-07$ $31.97$ $.981$ $1163E-06$ $31.97$ $.980$ $1193E-06$	25.22	1.000	.1483E-U5	25.22	1.076	·13218-05
26.72       1.094       .1264E-05       26.72       1.048       .6609E-06         27.47       1.059       .7003E-06       27.47       1.011       .1310E-06         28.22       1.042       .4492E-06       28.22       1.003       .3661E-07         28.97       1.042       .3944E-06       28.97       1.014       .1299E-06         29.72       1.064       .5404E-06       29.72       1.015       .1214E-06         30.47       1.032       .2436E-06       30.47       1.036       .2640E-06         31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	25.97	1.090	.1361E-05	25.97	1.057	.8759E-06
27.47       1.059       .7003E-06       27.47       1.011       .1310E-06         28.22       1.042       .4492E-06       28.22       1.003       .3661E-07         28.97       1.042       .3944E-06       28.97       1.014       .1299E-06         29.72       1.064       .5404E-06       29.72       1.015       .1214E-06         30.47       1.032       .2436E-06       30.47       1.036       .2640E-06         31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	26.72	1.094	.1264E-U5	26.72	1.048	.6609E-06
28.22       1.042       .4492E-06       28.22       1.003       .3661E-07         28.97       1.042       .3944E-06       28.97       1.014       .1299E-06         29.72       1.064       .5404E-06       29.72       1.015       .1214E-06         30.47       1.032       .2436E-06       30.47       1.036       .2640E-06         31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	2/.4/	1.059	./UU3E-06	27.47	1.011	.1310E-06
28.97       1.042       .3944E-06       28.97       1.014       .1299E-06         29.72       1.064       .5404E-06       29.72       1.015       .1214E-06         30.47       1.032       .2436E-06       30.47       1.036       .2640E-06         31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	28.22	1.042	.44925-06	28.22	1.003	.3661E-U/
29.72       1.064       .5404E-06       29.72       1.015       .1214E-06         30.47       1.032       .2436E-06       30.47       1.036       .2640E-06         31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	28.97	1.042	.3944E-06	28,97	1.014	.1299E-06
30.47       1.032       .2436E-06       30.47       1.036       .2640E-06         31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	29.72	1.064	.5404E-06	29.72	1.015	.1214E-06
31.22       1.018       .1232E-06       31.22       1.009       .6218E-07         31.97       .981      1163E-06       31.97       .980      1193E-06	30.47	1.032	.2436E-06	30.47	1.036	.2640E-06
31.97 .9811163E-06 31.97 .9801193E-06	31.22	1.018	.1232E-06	31.22	1.009	.6218E-07
	31.97	.981	1163E-06	31.97	.980	1193E-06

DATE 6/	/18/86		DATE 6/2	26/86	
HNORM	5.87 KM		HNORM 2	27 <b>.</b> 17 KM	
TROP	13.50 KM		TROP 1	13.60 KM	
INT BACH	KSCATTER .	168E-03 SR**-1	INT BACKS	SCATTER .1	77E-03 SR**-1
LEVELS	37		LEVELS	36	
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT, S	SCATTERI NG	AEROSOL
КМ	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.012	.4214E-05	4.22	1.128	.4367E-04
4.97	1.036	.1118E-04	4.97	1.148	.4665E-04
5.72	1.006	.1800E-05	5.72	1.193	.5594E-04
6.47	1.014	.3649E-05	6.47	1.231	.6208E-04
7.22	1.051	.1265E-04	7.22	1.270	.6715E-04
7.97	1.040	.9244E-05	7.97	1.271	.6236E-04
8.72	1.033	.6919E-05	8.72	1,250	.5327E-04
9.47	1.039	.7507E-05	9.47	1.225	.4426E-04
10.22	1.063	.1121E-04	10.22	1,259	.4658E-04
10.97	1.130	.2139E-04	10.97	1.269	.4437E-04
11.72	1.638	.9509E-04	11.72	1.354	.5328E-04
12.47	1.201	.2719E-04	12.47	2.643	.2259E-03
13.22	1.242	.2980E-04	13.22	2.931	.2418E-03
13.97	1.284	.3121E-04	13.97	1.474	.5179E-04
14.72	1.236	.2300É-04	14.72	1.307	.2944E-04
15.47	1.189	.1629E-04	15.47	1.247	.2091E-04
16.22	1.241	.1809E-04	16.22	1.250	.1872E-04
16.97	1.262	.1764E-04	16.97	1.301	.1974E-04
17.72	1.277	.1664E-04	17.72	1.334	.1979E-04
18.47	1.337	.1781E-04	18.47	1.385	.1989E-04
19.22	1.405	.1856E-04	19.22	1.397	.1814E-04
19.97	1.367	.1481E-04	19.97	1,418	.1692E-04
20.72	1.368	.1321E-04	20.72	1.326	.1170E-04
21.47	1.316	.1002E-04	21.47	1.214	.6794E-05
22.22	1.175	.4886E-05	22.22	1.115	.3234E-05
22,97	1.139	.3440E-05	22.97	1.100	.2497E-05
23.72	1,123	.2707E-05	23.72	1.118	.2607E-05
24.47	1.123	.2418E-05	24.47	1.095	.1861E-05
25.22	1.125	.2165E-05	25.22	1,110	.1909E-05
25.97	1.148	.2271E-05	25,97	1.068	.1045E-05
26.72	1.141	.1924E-05	26.72	1.028	.3858E-06
27.47	1.120	.1452E-05	27.47	1.011	.1293E-06
28,22	1.140	.1502E-05	28,22	1,066	.7215E-06
28,97	1.073	.6995E-06	28.97	1.017	.1607E-06
29.72	1.033	.2774E-06	29.72	.990	8281E-07
30.47	1.034	.2584E-06	30.47	1,002	.1842E-07
31,22	1.046	.3109E-06			

DATE 8/	/26/86		DATE 9/	/17/86	
HNORM	6.32 KM		HNORM	6.77 KM	
TROP	13.50 KM		TROP	14.00 KM	
INT BACH	KSCATTER .	102E-03 SR**-1	INT BACH	SCATTER .	109E-03 SR**-1
LEVELS	36		LEVELS	39	
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4 22	1 059	20158-04	1 22	971	- 1008 <b>F-0</b> 4
4 97	1 036	11385-04	1 97	1 003	10158-05
5 72	1 003	8333E-UC	±, )/	1.005	16068-05
6 17	1 000	000000-00	5.12	1.005	.1000E~00
7 00	1.000	.0000E+00	0.4/ 7.00	1.006	.10016-00
7.22	1.020	.40345-03	7.22	1.000	.5002E-07
1.31	1.040	.93106-05	7.97	1.014	.32/5E-05
8.72	1.065	.13/6E-04	8.72	1.014	.3019E-05
9.4/	1.064	.1246E-04	9.47	1.014	.2784E-05
10.22	1.084	.1512E-04	10.22	1.027	.4861E05
10.97	1.092	.1532E-04	10.97	1.035	.5743E-05
11.72	1.107	.1631E-04	11.72	1.025	.3796E-05
12.47	2.051	.1458E-03	12.47	1.042	.5751E-05
13.22	2,367	.1716E-03	13.22	1.104	.1266E-04
13.97	1.080	.8653E-05	13.97	1.135	.1465E-04
14.72	1.099	.9545E-05	14.72	1.158	.1493E-04
15.47	1.101	.8695E-05	15.47	1.131	.1106E-04
16.22	1.150	.1134E-04	16.22	1.130	.9845E-05
16.97	1.209	.1396E-04	16.97	1,161	.1074E-04
17.72	1.200	.1187E-04	17.72	1.221	.1296E-04
18.47	1.264	.1380E-04	18.47	1.287	.1488E-04
19.22	1.311	1427E-04	19.22	1.316	1454E-04
19.97	1.275	.1110E-04	19.97	1,296	1202E-04
20.72	1.253	9036E-05	20 72	1 232	8250E-05
21.47	1 182	5781E-05	21 47	1 246	7718F-05
22 22	1 168	.07010 00 4729r→05	21.77	1,240	5350F-05
22.22	1 139	3/70F-05	22.22	1 156	-0000-00
22.07	1,127	-3470B-03 2688E-05	22.37	1,100	- 3030E-03
23.72	1 104	•2000B-03	23.12	1,137	.3000E-03
24.47	1.104	1010E-00	24.4/	1 1 2 0	.2322E-US
25.22	1 062	.12126-00 0574P-06	20,22	1.120	.2210E-UD
25.97	1 020	. JU/45-06	25.97	1,120	.19035-05
20./2	1.039	-2306E-06	26./2	1.135	.1823E-05
2/.4/	1.04/	.569/15-06	27.47	1.092	.1109E-05
20.22	1.02/	.2981E-06	28.22	1.079	.8570E-06
28.97	1.020	.1898E-06	28,97	1.057	.5534E-06
29.72	1.026	.2258E-06	29.72	1.073	.6239E-06
30.47	1.011	.8130E-07	30.47	1.080	.6151E-06
			31.22	1.052	.3516E-06
			31.97	1.017	.1053E-06
			32.72	1.010	.5372E-07

DATE 10,	/16/86		DATE 10,	/20/86	
HNORM	4.37 KM		HNORM	<b>4.</b> 82 KM	
TROP	15.80 KM		TROP	12.50 KM	
INT BACK	KSCATTER .	125E-03 SR**-1	INT BACI	KSCATTER .	196E-03 SR**-1
LEVELS	39		LEVELS	39	
HEIGHT.	SCATTERING	AEROSOL	HEIGHT.	SCATTERING	AEROSOL
KM	RATIO	BACKSCATTER.	КM	RATIO	BACKSCATTER
		(KM-SR)**-1			(KM-SR)**-1
4.22	.991	3211E-05	4.22	.953	1634E-04
4.97	1.010	•3335E-05	4.97	1.008	.2500E-05
5.72	1.027	.7861E-05	5.72	1.033	.9732E-05
6.47	1.031	.8525E-05	6.47	1.044	.1207E-04
7.22	1.049	.1222E-04	7.22	1.042	.1054E-04
7.97	1.068	.1546E-04	7.97	1.053	.1242E-04
8.72	1.099	.2083E-04	8.72	1.067	.1458E-04
9.47	1.113	.2158E-04	9.47	1.079	.1577E-04
10.22	1.107	.1868E-04	10.22	1.104	.1885E-04
10.97	1,113	.1778E-04	10,97	1.096	.1584E-04
11.72	1,124	.1756E-04	11.72	1.128	.1892E-04
12.47	1,143	.1826E-04	12.47	1.154	.2037E-04
13.22	1,154	1761E-04	13.22	1,173	1998E-04
13.97	1,172	1757E-04	13.97	1,152	1569E-04
14 72	1 158	1451E-04	14 72	1 171	1564E-04
15 47	1 228	1856E-04	15 47	1 234	1904E-04
16 22	1 253	1836F-04	16 22	1 340	2431F-04
16 97	1 235	21086-04	16.97	1 345	2182E-04
17 72	1 326	1840F-04	17 72	1 391	2183F-04
18 17	1 220	16105-04	18 17	1,301	1783 - 04
19.22	1 296	1772F-04	19.22	1.301	16252-04
10 07	1,006	.1//ZE-04	19.22	1.309	19545-04
19.97	1.400	.1002E-04	13.3/	1.433	15000 04
20.72	1.42/	.14096-04	20.72	1.404	·1050E-04
21.47	1.335	.1039E-04	21.47	1.376	-114/6-04
22.22	1.279	./69/E-05	22.22	1.289	./824E-U5
22.97	1.22/	.5535E-U5	22.97	1.253	.60938-05
23.72	1.200	.4305E-05	23.72	1.234	.5002E-05
24.47	1,238	.4544E-05	24.47	1.234	.4430E-05
25.22	1,229	.3892E-05	25.22	1.213	.3570E-05
25.97	1.208	.3140E-05	25.97	1.196	.2911E-05
26.72	1.163	.2183E-05	26.72	1.174	.2294E-05
27.47	1.124	.1466E-05	27.47	1.125	.1469E-05
28.22	1.112	.1168E-05	28.22	1.101	.1051E-05
28.97	1.049	.4616E-06	28.97	1.081	.7606E-06
29.72	1.080	.6646E-06	29.72	1.070	.5767E-06
30.47	1.090	.6583E-06	30.47	1.090	.6598E-06
31.22	1.101	.6631E-06	31.22	1.064	.4202E-06
31.97	1.083	.4872E-06	31.97	1.080	.4696E-06
32.72	1.060	3116E-06	32.72	1.001	4154E-08

DATE 10, HNORM TROP INT BACH LEVELS	/29/86 4.82 KM 16.20 KM (SCATTER 36	.109E-03 SR**-1	DATE 11, HNORM TROP INT BACI LEVELS	/19/86 5.42 KM 12.00 KM KSCATTER .2 37	217E-03 SR**-1
HEIGHT, KM	SCATTERINO RATIO	G AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22	. 964	1234E-04	4.22	. 944	1928E-04
4,97	1,004	.1210E-05	4,97	.985	4812E-05
5.72	1.022	6508E-05	5 72	1 014	4025E-05
6 47	1.041	1125E-04	6 47	1 031	8323E-05
7.22	1.067	1677E-04	7 22	1 037	9163E-05
7 97	1 070	16258-04	7 97	1 052	1202E-04
8 72	1 075	1605F-04	8 72	1 069	1466F-04
9 17	1 078	15205-04	9.17	1 080	1567E-04
10 22	1 096	17338-04	10 22	1 084	1507E-04
10.22	1 097	15928-04	10.22	1.004	1572F-04
10.07	1 114	1687F-04	10.77	1,000	1763E-04
12 47	1 121	1614F-04	12 47	1 120	1597E-04
13 22	1 140	16695-04	13 22	1,120	1821F-04
13.22	1 1 3 8	1471F-04	13 97	1 185	1938E-04
14 72	1 156	14938-04	14 72	1 191	1769F-04
15.47	1 176	1501F-04	15 17	1 187	1561E-04
16 22	1 202	1543F-04	16 22	1 293	21708-04
16.97	1.256	1729E-04	16 97	1 396	2580E-04
17.72	1,344	2061E-04	17 72	1,433	.2470E-04
18.47	1,413	2163E-04	18 47	1 432	.2183E-04
19.22	1.447	2053E-04	19.22	1.440	.1969E-04
19.97	1.384	1560E-04	19.97	1.372	.1437E-04
20.72	1,300	.1081E-04	20.72	1.284	.9757E-05
21.47	1,230	.7246E-05	21.47	1.279	.8369E-05
22.22	1,183	.5053E-05	22.22	1.273	.7194E-05
22.97	1,138	.3395E-05	22.97	1.222	.5226E-05
23.72	1,132	.2881E-05	23.72	1,480	.9988E-05
24.47	1.140	.2691E-05	24.47	1,661	.1229E-04
25.22	1.139	.2376E-05	25.22	1,446	.7432E-05
25.97	1.124	.1867E-05	25.97	1,183	.2706E-05
26.72	1,100	.1338E-05	26.72	1.237	.3082E-05
27.47	1.131	.1545E-05	27.47	1.157	.1815E-05
28.22	1.103	.1071E-05	28.22	1,218	.2240E-05
28.97	1.079	.7345E-06	28.97	1.172	.1578E-05
29.72	1.082	.6795E-06	29.72	1.183	.1505E-05
30.47	1.053	.3885E-06	30.47	1,106	.7773E-06
			31.22	1.099	.6500E-06

DATE 11.	/21/86		DATE 12/	/ 3/86	
	5.42 KM			5.42 AM	
TROP	11.90 MM	00p 00 CD++ 1		9.00 MM	)/TE ()2 CD **_1
INI. DAU	NOLATIER .I	02B-03 SK**-1	INT DACE	SCALLER .2	14E-03 SK
PDAPPO	37		LEVELS	30	
HEI GHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERING	AEROSOL
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	.952	1664E-04	4.22	.970	1036E-04
4.97	.987	4197E-05	4.97	.991	2791E-05
5.72	1.012	.3533E-05	5.72	1.013	.3932E-05
6.47	1.019	.5221E-05	6.47	1.031	.8417E-05
7.22	1.030	.7571E-05	7.22	1.038	.9375E-05
7.97	1.039	.8989E-05	7,97	1.043	.9944E-05
8.72	1.091	.1952E-04	8.72	1.062	.1302E-04
9.47	1.088	.1713E-04	9.47	1.080	.1552E-04
10.22	1.085	.1489E-04	10.22	1.117	.2015E-04
10.97	1.108	.1678E-04	10.97	1.115	.1786E-04
11.72	1.128	.1805E-04	11.72	1.110	.1556E-04
12.47	1.137	.1717E-04	12.47	1.114	.1458E-04
13.22	1.118	.1325E-04	13.22	1.100	.1151E-04
13.97	1.128	.1287E-04	13.97	1.119	.1227E-04
14.72	1.150	.1351E-04	14.72	1.136	.1259 <b>E</b> -04
15.47	1.217	.1768E-04	15.47	1.190	.1582E-04
16.22	1.285	.2052E-04	16.22	1.220	.1622E-04
16.97	1.315	.2052E-04	16.97	1.246	.1618E-04
17.72	1.355	.2035E-04	17.72	1.318	.1832E-04
18.47	1.356	.1783E-04	18.47	1.418	.2114E-04
19.22	1.367	.1659E-04	19.22	1.422	.1890E-04
19.97	1.364	.1441E-04	19.97	1.411	.1628E-04
20.72	1.351	.1215E-04	20.72	1.306	.1059E-04
21.47	1.249	.7575E-05	21.47	1.252	.7708E-05
22.22	1.190	.5096E-05	22,22	1.232	.6272E-05
22,97	1.252	.6039E-05	22,97	1.223	.5333E-05
23.72	1.224	.4673E-05	23.72	1,235	,4967E−05
24.47	1.200	.3709E05	24.47	1.272	.5089E-05
25.22	1.146	.2427E-05	25.22	1.293	.4877E-05
25.97	1.094	.1381E-05	25.97	1.359	.5292 <b>E</b> -05
26.72	1.276	.3594E-05	26.72	1.249	.3257E-05
27.47	1.240	.2768E-05	27.47	1.228	.2651E-05
28.22	1.266	.2731E-05	28,22	1.182	.1885E-05
28,97	1.255	.2341E-05	28.97	1.130	.1201E-05
29.72	1.175	.1434E-05	29.72	1.160	.1314E-05
30.47	1.123	.9051E-06	30.47	1.133	.9722E-06
31.22	1.110	.7194E-06			

DATE 12/	/ 4/86		DATE 12,	/22/86	
HNORM	5.42 KM		HNORM	27.62 KM	
TROP	10.50 KM		TROP	13.00 KM	
INT BACH	SCATTER .	158E-03 SR**-1	INT BAC	KSCATTER	116E-03 SR**-1
LEVELS	39		LEVELS	36	
HEIGHT,	SCATTERI NG	AEROSOL	HEI GHT,	SCATTERI NO	g aerosol
КМ	RATIO	BACKSCATTER,	КМ	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM~SR)**-1
4 00	076		4 22	1 010	
4.22	.976	8405E-05	4.22	1.018	.64/3E-U5
4.97	.998	5099E-06	4.97	1.061	.19/0E-04
5.72	1.008	.24146-05	5./2	1.068	.2032E-04
6.4/	1.021	.5661E-05	6.4/	1.050	.13//E-04
1.22	1.035	.8904E-05	7.22	1.057	.1472E-04
7.97	1.038	.8807E-05	7.97	1.096	.2270E-04
8.72	1.047	<b>,</b> 9946E-05	8,72	1.149	.3236E-04
9.47	1.087	.1687E-04	9.47	1.147	.2893E-04
10.22	1.220	.3859E-04	10.22	2.834	.3250E-03
10.97	1.089	.1425E-04	10.97	3.060	.3315E-03
11.72	1.086	.1225E-04	11.72	1.575	.8253E-04
12,47	1.080	.1017E-04	12.47	1.171	.2154E-04
13.22	1.072	.8327E-05	13.22	1.104	.1174E-04
13.97	1.084	.8641E-05	13.97	1.098	.9823E-05
14.72	1.084	.7750E-05	14.72	1.098	.8860E-05
15.47	1.088	.7317E-05	15.47	1.102	.8284E-05
16.22	1.135	.9981E-05	16.22	1.172	.1220E-04
16.97	1.199	.1309E-04	16,97	1,256	.1609E-04
17.72	1.277	.1594E-04	17.72	1.277	.1558E-04
18.47	1.337	.1704E-04	18.47	1.311	.1564E-04
19.22	1.391	.1742E-04	19.22	1.366	.1597E-04
19.97	1.355	.1395E-04	19.97	1.289	.1119E-04
20.72	1.257	.8888E-05	20.72	1.183	.6301E-05
21.47	1,264	.8086E-05	21.47	1,215	.6588E-05
22.22	1.202	.5478E-05	22.22	1.182	.4944E-05
22,97	1.204	.4883E-05	22,97	1.159	.3769E−05
23.72	1.207	.4373E-05	23.72	1.138	.2861E-05
24.47	1,254	.4765E-05	24.47	1,139	.2552E-05
25.22	1,266	.4425E-05	25.22	1.122	.1996E-05
25.97	1,185	.2726E-05	25.97	1.164	.2394E-05
26.72	1,201	.2638E05	26.72	1.104	.1352E-05
27.47	1.163	.1902E-05	27.47	1.001	.1625E-07
28.22	1.129	.1336E-05	28.22	1.006	.6317E-07
28,97	1.134	.1237E-05	28,97	1.009	.7919E-07
29.72	1.111	.9086E-06	29.72	.980	1617 <b>E-</b> 06
30.47	1.066	.4811E-06	30.47	.925	5422E-06
31.22	1.049	.3158E-06			
31.97	.994	3574E-07			
32.72	1.078	.4032E-06			

DATE 1/ HNORM TROP INT BACH LEVELS	/ 8/87 5.42 KM 10.00 KM KSCATTER .3 33	154E-03 SR**-1	DATE 1/ HNORM TROP INT BACK LEVELS	14/87 9.92 KM 11.70 KM SCATTER . 33	115E-03 SR**-1
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL
KM	RATIO	BACKSCATTER, (KM-SR)**-1	КМ	RATIO	BACKSCATTER, (KM-SR)**-1
4.22	1.002	.8412E-06	4.22	.962	1313E-04
4.97	1.012	.395 <b>4E-</b> 05	4.97	1.001	.3846E-06
5.72	1.003	.8976E-06	5.72	1.013	.3843E-05
6.47	1.010	.2858E-05	6.47	1.015	.4184E-05
7.22	1.019	.4790E-05	7.22	1.020	.4993E-05
7.97	1.033	.7631E-05	7.97	1.014	.3134E-05
8.72	1.031	.6587E-05	8.72	1.025	.5268E-05
9.47	1.066	.1268E-04	9.47	1,008	.1565E-05
10.22	1.080	.1376E-04	10.22	1.003	.6118E-06
10.97	1.068	.1042E-04	10.97	1.059	.9668E-05
11.72	1.048	.6675E-05	11.72	1.083	.1251E-04
12.47	1.054	.6790E-05	12.47	1.033	.4258E-05
13.22	1.091	.1023E-04	13.22	1.018	.2085E-05
13.97	1.139	.1362E-04	13.97	1.026	.2722E-05
14.72	1.147	.1310E-04	14.72	1.031	.2935E-05
15.47	1,198	.1555E-04	15.47	1.070	.5827E-05
16.22	1,224	.1588E-04	16.22	1,121	.9007E-05
16,97	1.233	.1462E-04	16.97	1.138	.9134E-05
17.72	1.275	.1526E-04	17.72	1.192	.1132E-04
18.47	1.273	.1350E-04	18.47	1.276	.1421E-04
19.22	1.284	.1250E-04	19.22	1.331	.1489E-04
19.97	1.333	.1292E-04	19.97	1.357	.1419E-04
20.72	1.244	.8336E-05	20.72	1.318	.1119E-04
21.47	1.195	.5900E-05	21.47	1.328	.1010E-04
22.22	1.188	.5059E-05	22,22	1,295	.7974E-05
22,97	1.162	.3866E-05	22.97	1.269	.6432E-05
23.72	1.152	.3202E-05	23.72	1.215	.4545E-05
24.47	1,116	.2162E-05	24.47	1.258	4853E-05
25.22	1.082	.1350E-05	25.22	1.282	.4705E-05
25.97	1.121	.1764E-05	25,97	1.229	.3400E-05
26.72	1.118	.1503E-05	26.72	1.144	.1893E-05
27.47	1.084	.9496E-06	27.47	1.117	.1351E-05
28.22	1.054	.5404E-06	28.22	1.111	.1125E-05

DATE 2/ HNORM TROP INT BACH LEVELS	/13/87 28.22 KM 8.00 KM KSCATTER . 35	274E-03 SR**-1	DATE 2/2 HNORM 2 TROP 2 INT BACKS LEVELS	19/87 29.87 KM 11.70 KM 5CATTER .1 36	45E-03 SR**-1
HEIGHT, KM	SCATTERING RATIO	GAEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, S KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1
4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.22 19.97 20.72 21.47 22.22 22.97 23.72	1.031 1.054 1.043 1.048 1.072 1.085 1.089 1.159 1.152 1.128 1.134 1.117 1.148 1.66 1.296 1.384 1.420 1.466 1.536 1.370 1.282 1.282 1.228 1.216 1.184	.1074E-04 .1751E-04 .1287E-04 .1315E-04 .1793E-04 .1916E-04 .1813E-04 .2888E-04 .2888E-04 .2846E-04 .2239E-04 .1699E-04 .1699E-04 .147E-04 .147E-04 .1459E-04 .1420E-04 .2046E-04 .2046E-04 .2020E-04 .2066E-04 .1254E-04 .8450E-05 .6080E-05 .5089E-05 .3825E-05	4.22 4.97 5.72 6.47 7.22 7.97 8.72 9.47 10.22 10.97 11.72 12.47 13.22 13.97 14.72 15.47 16.22 16.97 17.72 18.47 19.22 19.97 20.72 21.47 22.22 22.97 23.72	1.060 1.074 1.161 1.242 2.050 1.479 1.125 1.068 1.059 1.054 1.050 1.057 1.063 1.091 1.152 1.211 1.162 1.232 1.326 1.375 1.432 1.329 1.307 1.237 1.179 1.298	2107E-04 2423E-04 4839E-04 6685E-04 2667E-03 1117E-03 2650E-04 1313E-04 1039E-04 8529E-05 7031E-05 7084E-05 7020E-05 9031E-05 1363E-04 1676E-04 1151E-04 1633E-04 1633E-04 1671E-04 1671E-04 1705E-04 1148E-04 9448E-05 6414E-05 4258E-05 6236E-05
24.47 25.22 25.97 26.72 27.47 28.22 28.97 29.72	1.264 1.398 1.312 1.105 1.073 1.000 1.000 .984	.4878E-05 .6515E-05 .4598E-05 .1381E-05 .8483E-06 .0000E+00 .0000E+00 1261E-06	24.47 25.22 25.97 26.72 27.47 28.22 28.97 29.72 30.47	1.311 1.159 1.138 1.072 1.046 1.042 1.029 1.005 .996	.5776E-05 .2620E-05 .2006E-05 .9323E-06 .5214E-06 .4207E-06 .2544E-06 .3775E-07 2503E-07

DATE 2/	/26/87		DATE 5/	/ 1/87	
HNORM	9.17 KM		HNORM	7.52 KM	
TROP	11.80 KM		TROP	12.50 KM	
INT BACH	SCATTER .1	40E-03 SR**-1	INT BACK	SCATTER .1	34E-03 SR**-1
LEVELS	36		LEVELS	40	
				<b>6</b> 01 <b>6</b> 557 100	
HEIGHT,	SCATTERING	AEROSOL	HEIGHT,	SCATTERING	AEROSOL
КМ	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,
		(KM-SR)**-1			(KM-SR)**-1
4.22	1.352	.1244E-03	4.22	.958	1444E-04
4.97	1.287	.9348E-04	4.97	1.041	.1285E-04
5.72	1,065	.1945E-04	5.72	1.084	.2458E-04
6.47	1.018	5006E-05	6 47	1,148	4006E-04
7.22	1.021	5227E-05	7 22	1 002	4506E-06
7 97	1 020	4559E-05	7 97	1 021	4860E-05
8.72	1 010	2088E-05	8 72	1 042	9057E-05
9 47	1 003	6595E-06	9 47	1 059	1152E-04
10 22	1 023	3984F-05	10 22	1 023	4180E-05
10.97	1 017	2756F-05	10.22	1 014	2316F-05
10.07	1 028	2971E-05	10.57	1 056	8231F-05
12 47	1 090	1130E-04	12 47	1 210	2803E-04
13 22	1 110	1247F-04	13 22	1 269	-2000B 04 3164F-04
13.97	1 099	1002E-04	13.97	1 107	1072F-04
14 72	1 074	6659F-05	14 72	1 120	10755-04
15 47	1 079	.0009B 00 6402F∸05	14.72	1 121	9664E-05
16 22	1 135	9790F-05	16 22	1 165	1167E-04
16 97	1 211	1342F-04	16.22	1 293	1824F-04
17 72	1 248	1389E-04	10.57	1 257	14138-04
18 47	1 278	1371F = 0.4	18.47	1 297	1452F-04
19 22	1 312	1356E-04	19.22	1 239	1035E-04
19 97	1 300	1163E-04	19 97	1 359	1374E-04
20 72	1 321	1113F-04	20.72	1 283	9572F-05
21 47	1 282	8643E-05	20.72	1 310	9327E-05
22.27	1 304	8270F-05	21.17	1 265	7081F-05
22.97	1.324	.7682E-05	22.22	1 303	7205E-05
22.72	1 224	4729E-05	22.07	1 253	-7200D 00 5312E-05
24 47	1 372	6924E-05	23.72	1 270	5074F-05
25 22	1 216	3540F-05	25.27	1 269	.3074B 03 4477F-05
25 97	1 182	2629F-05	25.22	1 275	40538-05
26 72	1 157	20118-05	25.57	1 208	2732F-05
27 17	1 138	15527-05	20.72	1 197	2312E-05
27.7	1 186	1862F-05	27.47	1.157	1720F_05
28.97	1 196	1744E-05	20.22	1 248	23258-05
29.72	1,172	1367E-05	20.57	1 267	2232E-05
30 47	1 051	.35788-06	20.12	1 120/	1340-05
JU. T/	TOOT	.35705 00	21 22	1 090	5965E-06
			31 97	1 041	2409F-06
			22 72	1 140	7421 - 06
			33 17	ידייד 1 רו ו	5322F-06
			22*#1	<b>T • + + C</b>	· JJZZE-00

	DATE 6. HNORM TROP INT BACI LEVELS	/11/87 30.02 KM 13.00 KM KSCATTER .9 40	010E-04 SR**-1	DATE 6, HNORM TROP INT BACI LEVELS	/19/87 7.37 KM 13.60 KM KSCATTER 36	.111E-03 SR**-1
	HEI GHT, KM	SCATTERING RATIO	AEROSOL BACKSCATTER, (KM-SR)**-1	HEIGHT, KM	SCATTERINO RATIO	G AEROSOL BACKSCATTER, (KM-SR)**-1
	4 22	1.012	4243E-05	4.22	897	- 3516E-04
	4,97	1,258	.8182E-04	4.97	.941	1849E-04
	5 72	1 354	1039E-03	5 72	994	-1749E-05
	6 47	1 094	2549E-04	6.47	1 030	8154E-05
	7 22	1 038	9543E-05	7 22	1 007	1699E-05
	7 97	1 060	13838-04	7 97	1 032	73988-05
	8 72	1.087	1847F-04	8 72	1.046	9790F-05
	9.72	1 100	1952F-04	9.72	1.040	9487E-05
	10 22	1 073	1206F-04	10 22	1 072	12178-04
	10.22	1.073	.1300B 04 5571F-05	10.22	1.072	9174E-05
	10.77	1.054	2283E-UV	10.07	בייס ב נע נ	6262R-04
	12 47	1.200	5677E-04	10 17	2 300	19/95-03
	12.27	2 136	1373F-03	13 22	1 313	39328-03
	13.97	2,130	1574F-03	13.97	1,313	2213E_04
	14 72	2.470	1690F-04	14.72	1.127	14005-04
	14.72	1 122	1090E-04	14.72	1.142	8304E-04
	16 22	1,132	7418F_05	16 22	1.095	10904E-00
	16.22	1.101	./410E-05	16.22	1.000	- 4203E-03 7290E 05
	10.71	1.074	.4030E-00 01470-05	10.7/	1,100	./SOUE-US
	1/./Z	1.139	.014/E-US	10 17	1.13/	.0290E-U3
	10.47	1.10Z	./000E-05	10.47	1.101	.00/4E-US
	19.22	1.10/	.0400E-U0 7070E 0E	17.44	1.193	.9065E-05
	19.97	1.101	·/2/35-05	19.97	1.220	.9168E-05
,	20.72	1.230	.04/0E-UD	20.12	1.247	.5071E-05
	21.47	1.24/	.7809E-05	21.47	1.301	.9633E-U5
	22.22	1.180	.50496-05	22.22	1.264	·/436E-U5
	22.97	1,150	.3/43E-U5	22.97	1.191	.4//UE-U5
	23.72	1.097	.213/E-05	23.72	1.266	.5930E-05
	24.4/	1.079	.1551E-U5	24.47	1.244	.4840E-05
	25.22	1.051	.89205-06	25.22	1.221	.3896E-U5
	25.97	1,069	.10/05-05	25.97	1.245	.3834E-U5
	26./2	1.106	.1460E-05	20./2	1.219	.3048E-05
	2/.4/	1.098	.11946-05	2/.4/	1.188	.231/E-05
	20.22	1.046	.4931E-Ub	28.22	1.139	.152/5-05
	28.97	1.040	.3852E-06	28.97	1.099	.96/9E-06
	29.72	1.025	.2087E-06	29.72	1.075	.6451E-06
	30.47	1.010	.7/22E-07	30.47	1.058	.4484E-06
	31.22	.983	1175E-06			
	31.97	.963	2210E-06			
	32.72	1.026	.1415E-06			
	33.47	.961	- <b>.</b> 1866E-06			

DATE 6/	/26/87		DATE 6/30/87				
HNORM	13.67 KM		HNORM	6.32 KM			
TROP	15.70 KM		TROP	15,70 KM			
INT BACH	SCATTER .7	50E-04 SR**-1	INT BAC	KSCATTER .1	22E-03 SR**-1		
LEVELS	40		LEVELS	37			
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT,	SCATTERI NG	AEROSOL		
KM	RATIO	BACKSCATTER,	KM	RATIO	BACKSCATTER,		
		(KM-SR)**-1			(KM-SR)**-1		
4.22	1.211	.7185E-04	4.22	1.151	.5177E-04		
4.97	1.240	.7536E-04	4.97	1.034	.1073E-04		
5.72	1.449	.1301E-03	5.7Ż	1.015	4256E-05		
6.47	1.245	.6589E-04	6.47	1,020	.5391E-05		
7.22	1,244	.6003E-04	7.22	1,121	-3015E-04		
7.97	1.053	1201E-04	7,97	1.077	.1781E-04		
8.72	1.017	.3620E-05	8.72	1.081	1723E-04		
9 47	1 031	5978E-05	9 47	1 092	1796E-04		
10 22	1 048	8488E-05	10 22	1 118	2124E-04		
10.97	1 045	7429E-05	10.97	1 132	2185E-04		
10.07	1 061	90658-05	11 72	1 162	2456E-04		
12 47	1 088	11936-04	12 17	1 172	23838-04		
12.22	1 021	2512F-05	13 22	1 189	2365F-04		
13.22	1 000	.23125 03 A369E-07	13 97	1 215	22857-04		
14 72	1.026	2520F-05	1/ 72	1.213	10595-04		
14.72	1.020	2020E-00 2600E-05	14.72	1.100	.10095-04 06727-05		
10.47	1.050	.2000E-0J	16 22	1.100	1010B-00		
16.22	1.056	.4440E-03	16.22	1,100	.12126-04 1270E 04		
10.97	1.074	.0100E-05	10.9/	1.200	.13/95-04		
10 17	1.110	.0/005-03 75057 05	10.72	1.220	*1300B-04		
18.47	1.139	./SUSE-US	10.47	1.244	.13086-04		
19.22	1.182	.86455-05	19.22	1.281	.13225-04		
19.97	1.230	.961/E-05	19.97	1.333	.1381E-04		
20.72	1.252	.9285E-05	20.72	1.355	.1301E-04		
21.47	1.2/3	.8846E-U5	21.47	1.358	.1158E-04		
22.22	1.245	.7042E-05	22.22	1.322	.9238E-05		
22.97	1.22/	.5/56E-U5	22.97	1.355	.9021E-05		
23.72	1.238	.5337E-05	23.72	1.366	.8219E-05		
24.47	1.285	.5661E-05	24.47	1.359	.7147E-05		
25.22	1.259	.4583E-05	25.22	1.330	.5845E-05		
25.97	1.259	.4070E-05	25.97	1.337	.5285E-05		
26.72	1.195	.2720E-05	26.72	1.296	.4042E-05		
27.47	1.160	.1996E-05	27.47	1.245	.2987E-05		
28.22	1.108	.1197E-05	28.22	1.201	.2195E-05		
28.97	1.102	.1005E-05	28.97	1.174	.1704E-05		
29.72	1.065	.5750E-06	29.72	1.181	.1573E-05		
30.47	1.050	.3916E-06	30.47	1.177	.1377E-05		
31.22	1.022	.1535E-06	31.22	1.155	.1069E-05		
31.97	1.003	.1858E-07					
32.72	.997	1741E-07					
33.47	.981	9058E-07					

ኮእጥም 7	100/07		האַ <b>תּע</b> ה 7/1	24/97	
	6 22 VM			6 20 KM	
	D.JZ MM				
TRUP	MA UC.CL	110D 03 CD++ 1			
INT BAU	KSCATTER 40	.118E-03 SK^^-1	INT BACK	SCATTER .	131E-03 SK~~-1
LEVELS	40		LEVELS	40	
			URICUM		A EBOCOL
neiGni,	DATIERIN		neiGni, a		
лм	RAILO	DACASCATTER,	лм	RAIIO	(VM CD) * * 1
		(NM-DK) ***-1			$(M-SR)^{-1}$
1 22	ם פער	2011 - 03	1 20	886	- 38531-04
4.22	1.072	- 3011E-03 3582F-04	4.20	.000	-2028F-04
4.J/ 5.70	1.113	- 4670E-04	±.55	.JJJ 07/	-7409 - 75
5.12	010 I	40/35-00 2127E-06	5.70	1 005	12965-05
7 22	1 020	1205F.05	7 20	1.003	-1390 <u>0</u> -03
7.22	1.020	.4050E-00	7.20	1,010	.2090B-00
7.97	1 002	./IIOE-UD	7.90	1.020	
0./2	1.023	.4/886-05	8.70	1.033	.0904E-US
9.47	1.038	./4ZIE-UD	9.40	1.037	
10.22	1.082	.14/1E-04	10.20	1,080	
10.97	1.062	.1035E-04	10.95	1.076	
11./2	1.095	.14518-04	11.70	1.094	.14375-04
12.4/	1.083	.1135E-04	12.45	1.086	.12026-04
13.22	1.058	./252E-05	13.20	1.102	.12968-04
13.97	1.057	.6393E-05	13.95	1.14/	.16/9E-04
14.72	1.084	.8552E-05	14./0	1.15/	.1611E-04
15.47	1.106	.9692E-05	15.45	1.146	.1308E-04
16.22	1.155	.1239E-04	16.20	1.170	.1360E-04
16.97	1.165	.11/8E-04	16.95	1.1/6	.1252E-04
17.72	1.250	.1559E-04	17.70	1.213	.1320E-04
18.47	1.302	.1654E-04	18.45	1.277	.1505E-04
19.22	1.290	.1401E-04	19.20	1.327	.1558E-04
19.97	1.302	.1319E-04	19.95	1.334	.1405E-04
20.72	1.190	.7507E-05	20.70	1.349	.1297E-04
21.47	1.326	.1159E-04	21.45	1.339	.1119E-04
22.22	1.398	.1161E-04	22.20	1.369	.1079E-04
22.97	1.332	.8527E-05	22.95	1.326	.8420E-05
23.72	1.290	.6548E-05	23.70	1.353	.8027E-05
24.47	1.298	.5933E-05	24.45	1.339	.6826E-05
25.22	1.302	.5314E-05	25.20	1.277	.4961E-05
25.97	1.292	.4595E-05	25.95	1.326	.5175E-05
26.72	1.229	.3237E-05	26.70	1.260	.3649E-05
27.47	1.210	.2641E-05	27.45	1.242	.3014E-05
28.22	1.124	.1372E-05	28.20	1.152	.1690E-05
28.97	1.186	.1834E-05	28,95	1.069	.6859E-06
29.72	1.051	.4538E-06	29.70	1.088	.7748E-06
30.47	1.100	.7889E-06	30.45	1.127	.1001E-05
31.22	.944	3950E-06	31.20	1.113	.7925E-06
31.97	.741	1631E-05	31.95	1.076	.4752E-06
32.72	.947	2918E-06	32.70	1.070	.3925E-06
33.47	.875	6228E-06	33.45	1.053	.2641E-06

DATE 8,	/12/87		DATE 8/2	25/87	
HNORM	6.32 KM		HNORM	5.42 KM	
TROP	15.00 KM		TROP 1	4.30 KM	
INT BAC	KSCATTER .	144E-03 SR**-1	INT BACKS	CATTER .	137E-03 SR**-1
LEVELS	40		LEVELS	39	
				0,2	
HEIGHT,	SCATTERI NG	AEROSOL	HEIGHT, S	CATTERI NG	AEROSOL
КМ	RATIO	BACKSCATTER.	КМ	RATIO	BACKSCATTER.
		(KM-SR)**-]		• •	(KM-SR)**-]
		(			(
4.22	.889	3727E-04	4.22	.932	2342E-04
4.97	.916	2607E-04	4.97	.969	9921E-05
5.72	,968	9372E-05	5.72	1.023	.6715E-05
6.47	1.003	.6954E-06	6.47	1.042	.1136E-04
7.22	1.373	.9199E-04	7.22	1.068	.1679E-04
7.97	2.138	2599E-03	7,97	1.053	1226E-04
8.72	1.360	7599E-04	8.72	1.063	1329E-04
9.47	1.074	1440E-04	9.47	1.061	1196E-04
10.22	1.020	3667E-05	10.22	1.072	1299E-04
10.97	1.041	.6706E-05	10,97	1.090	.1484E-04
11.72	1.041	6153E-05	11.72	1,100	1509E-04
12 47	1 060	8273E-05	12 47	1 108	1482E-04
13 22	1 076	9417F-05	12.22	1 1 2 3	1517F-04
13.22	1 089	.9984F-05	13.22	1 128	1410F-04
14 72	1 08/	2529F_05	14 72	1 120	1128E-04
14.72	1.004	11658-04	14.72	1 151	12005-04
16 22	1,130	1260F-04	16 22	1 167	13096-04 13768-04
16.22	1.1/5	+1303E-04 1504R-04	16.22	1,10/ 101	12/05-04
10.37	1 220	1204E-04	10,97	1,101	.122/E-04
10 17	1.230	,1304E-04	1/./2	1.220	.13125-04
10.4/	1.2/1 1.247	.1401E-04	10.47	1 222	.14Z/E-04
19.22	1.347	104/E-04	19.22	1.323	.14/96-04
19.97	1,300	.1032E-04	19.97	1.300	.14526-04
20.72	1.398	.14556-04	20.72	1.3/3	.1344E-04
21.4/	1.403	.1301E-04	21.47	1.359	.1148E-U4
22.22	1.364	.1043E-04	22.22	1.385	.10928-04
22.97	1.405	.102/E-04	22.97	1.380	.9568E-05
23.12	1.400	.9001E-05	23.72	1.351	./834E-05
24.47	1,454	.9051E-05	24.47	1.356	.7051E-05
25.22	1.366	.6473E-05	25.22	1.303	.5339E-05
25.97	1.362	.5689E-05	25.97	1.218	.3415E-05
26.72	1.305	.4236E-05	26.72	1.173	.2400E-05
27.47	1.268	.3318E-05	27.47	1.160	.1979E-05
28,22	1.254	.2808E-05	28.22	1.121	.1332E-05
28,97	1.158	.1561E-05	28,97	1.078	.7602E-06
29.72	1,100	.8839E-06	29.72	1.130	.1116E-05
30.47	1.184	.1454E-05	30.47	1.103	.7906E-06
31.22	1.057	.4005E-06	31.22	1.011	.7444E-07
31.97	1.095	.5950E-06	31.97	1.074	.4555E-06
32.72	1.070	.3873E-06	32.72	.998	1105E-07
33.47	1.064	.3164E-06			

DATE 9/	/29/87		DATE 11/1	13/87	
HNORM	10.80 KM		HNORM	5.42 KM	
TROP	14.00 KM		TROP ]	12.70 KM	
INT BACH	KSCATTER	.117E-03 SR**-1	INT BACKS	SCATTER	.141E-03 SR**-1
LEVELS	40	•	LEVELS	37	
				0,	
HEIGHT,	SCATTERIN	IG AEROSOL	HEIGHT, S	SCATTERI N	G AEROSOL
КМ	RATIO	BACKSCATTER.	KM	RATIO	BACKSCATTER
		(KM-SR)**-]			(KM-SR)**-1
4.20	. 987	4503E-05	4.22	.973	9135E-05
4.95	1.004	1412E-05	4.97	993	- 2162E-05
5 70	1 028	8196E-05	5 72	1 006	1649E-05
6 45	1 026	72018-05	6 47	1 030	10628-04
7 20	1 064	16105-04	7 22	1 0/0	12202 04
7.20	1 022	-1019E-04	7.22	1.049	,12236-04
7.90	1.023	.54756-05	7.97	1.049	.11345-04
8.70	1.031	.6639E-05	8.72	1.072	.1541E-04
9.45	1.041	.8206E-05	9.47	1.097	.1902E-04
10.20	1.033	.5952E-05	10.22	1.123	.217/E-04
10.95	1.006	.9620E-06	10.97	1.124	.1943E-04
11.70	1.026	.3910E-05	11.72	1.129	.1809E-04
12.45	1.018	.2412E-05	12.47	1.120	.1520E-04
13.20	1.019	.2350E-05	13.22	1.155	.1734E-04
13.95	1.024	.2629E-05	13.97	1.178	.1783E-04
14.70	1.069	.6751E-05	14.72	1.180	.1585E-04
15.45	1.092	.7952E-05	15.47	1.171	.1352E-04
16.20	1.121	.9188E-05	16.22	1.186	.1326E-04
16.95	1.138	.9274E-05	16.97	1.185	.1170E-04
17.70	1.187	.1107E-04	17.72	1.256	.1443E-04
18.45	1.246	.1273E-04	18.47	1.249	.1251E-04
19.20	1.315	1444E-04	19.22	1.298	.1340E-04
19.95	1,255	1042E-04	19.97	1,323	1254E-04
$20.70^{\circ}$	1,287	1030E-04	20.72	1,296	1027E-04
21 45	1 294	9272E-05	21 47	1 250	7736F-05
22.20	1 221	9196E-05	22.17	1 210	5777F-05
22.20	1 303	7458E-05	22.22	1 154	37365-05
22.00	1 222	72208-05	22.07	1 250	5750E 05
23.70	1 246	.7320 <u>5</u> -03	23.12	1.200	*0202E-00
24,45	1.340	.0723E-05	24.4/	1.229	.43416-05
25.20	1.331	.5/21E-05	23.22	1.123	.2069E-05
25.95	1.345	.5298E-05	25.97	1.063	.9399E-06
26.70	1.312	.4260E-05	26.72	1.057	./384E-06
27.45	1.199	.2416E-05	27.47	1.142	.1654E-05
28.20	1.176	.1902E-05	28.22	1.077	.8020E-06
28.95	1.205	.1968E-05	28,97	1.026	.2395E-06
29.70 <sup>.</sup>	1.091	.7762E-06	29.72	1.005	.4445E-07
30.45	1.083	.6351E-06	30.47	1.017	.1205E-06
31.20	1.089	.6040E-06	31.22	.989	6907E-07
31.95	1.135	.8157E-06	-		
32.70	1.052	.2829E-06			
33.45	1.165	.7928E-06			· ·

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16. Abstract A ground-based 48-inch lidar system located at the NASA Langley Research Center in Hampton, Virginia, has been used to obtain high-resolution vertical profiles of the stratospheric and upper tropospheric aerosols since 1974. Two hundred and thirty-six lidar measurements obtained at a wavelength of 0.6943 $\mu$ m between 1974 and 1987 are summarized in this report. Plots of peak backscatter mixing ratio and integrated backscatter versus time are presented for the entire measurement sequence. The plots highlight the influence of several major volcanic eruptions on the long-term stratospheric aerosol layer. In particular, the eruptions of El Chichon in late March- early April 1982 produced a massive aerosol layer. Aerosol enhancement from El Chichon reached Hampton, Virginia, by May 1982 with a scattering ratio of approximately 50 detected on July 1, 1982. Maximum aerosol loading, as measured by integrated backscatter, occurred between January and March 1983. The peak optical depth at a wavelength of 0.6943 $\mu$ m was then calculated to be approximately 0.13. In addition, scattering-ratio profiles from June 1982 to December 1987, along with tables containing numerical values of the backscatter ratio and backscattering function versus altitude, have been included to describe further the stratospheric and upper tropospheric aerosol layers. A brief discussion of lidar-error analysis is included. The intent of this report is to provide, in a ready-to-use format, a 14-year summary of lidar observations at a fixed midlatitude location to be used for further scientific studies.						
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