NRL Report 7489

Concurrent Measurements of Water Vapor and Ozone Over Washington, D.C., During 1969 and 1970

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ABSTRACT

Concurrent measurements of the vertical distribution of water vapor and ozone in the atmosphere have been obtained at approximately one-month intervals at a site near Washington, D.C. Data for 19 soundings during the period 1969 and 1970 are presented in tables and graphs.

PROBLEM STATUS

This is a final report on one phase of a continuing problem.

AUTHORIZATION

NRL Problem A03-09
Project A37540/652/69-R004-02-01

Manuscript submitted August 23, 1972

CONCURRENT MEASUREMENTS OF WATER VAPOR AND OZONE OVER WASHINGTON, D.C., DURING 1969 AND 1970

INTRODUCTION

A program for the systematic observation of water vapor and ozone at heights to 100,000 ft (30.5 km) was initiated in January 1967 to obtain concurrent distributions in the atmosphere of these two gases and to provide data for studies of the atmosphere's general circulation. The program provides for sounding from a site near Washington, D.C., at the NRL Chesapeake Bay Division (38.6°N and 76.6°W) at approximately one-month intervals. Nineteen soundings were made during 1969 and 1970, providing vertical profiles of water vapor and ozone; the results are here presented in tables and graphs. Data for the first two years of the program are reported elsewhere (1). Table 1 gives the date and time of the soundings for this reporting period.

Table 1
Date and Time of Water Vapor and Ozone Soundings

Date			Time (GMT)	Date			Time (GMT)
Feb.	28,	1969	1555	Jan.	14,	1970	1540
Apr.	21,	1969	1608	Feb.	13,	1970	1640
May	2,	1969	1550	Mar.	28,	1970	1436
June	5,	1969	1329	Apr.	16,	1970	1620
Aug.	7,	1969	1640	May	5,	1970	1620
Sept.	11,	1969	1530	June	9,	1970	1530
Oct.	6,	1969	1612	Aug.	5,	1970	1630
Nov.	22,	1969	1930	Sept.	16,	1970	1515
Dec.	6,	1969	1530	Oct.	2,	1970	1516
				Dec.	1,	1970	1604

INSTRUMENTATION

The instrumentation is a consolidation of two instrument systems in a single package, which is carried aloft on an ascent-descent sounding balloon. Data are collected during both the ascent and descent flights. The water vapor measurements are obtained using a frost-point hygrometer (2), which is an instrument for measuring the temperature at which the atmospheric water vapor is in pressure equilibrium with ice or water. Frost-point temperatures are readily converted to vapor pressure, and hence to concentrations, using the relationship between temperature and saturation vapor pressure formulated by Goff and Gratch (3). The partial pressure of ozone is measured by means of an electrochemical concentration cell using the well-known oxidation of potassium iodide (KI) by ozone as the basic reaction, whereby each ozone molecule absorbed in the solution provides two electrons to an external circuit. The electron current is impressed upon an electronic coupler whose resistance varies with the current, thus providing a resistance input for radiosonde transmission. By calibrating the flow rate of the pump and measuring the cell current, the ozone concentration is determined. The use of a nonreactive, Teflon, gas-sampling pump overcomes one of the problems associated with other instruments, that is, the destruction of ozone before reaching the sensor. The electrochemical concentration cell described by Kohmyr (4) is comprised of two bright platinum electrodes immersed in KI solutions of different concentration contained in separate cathode and anode chambers. The chambers are linked by an ion bridge.

A conventional radiosonde is used to telemeter to a ground station the frost-point temperature, the air temperature, the ozone-generated current, and various references and instrument parameters.

An expansible neoprene balloon is used as the sounding vehicle, which supports the instrumentation during both the ascent and descent. Balloon turnaround to initiate the descent sounding is achieved by a balloon control system (5) which releases gas at the top of the flight. Rate of ascent and descent is in the range of 1000 to 2000 ft/min (5 to 10 m/sec).

A major problem in the measurement of water vapor at stratospheric levels using sounding balloons has been the water vapor contamination from the equipment and balloon system (6). For this instrumentation system the problem has been largely overcome by sampling ahead of the contaminated wash of the flight train during a balloon descent and using only the descent sounding data for the measurement of stratospheric water vapor. Contamination by the balloon system is not a problem in the measurement of ozone, and ozone distributions are determined for both the ascent and descent flights.

For most flights the total ozone in a vertical column of the atmosphere, as determined separately for the ascent and descent soundings, is in good agreement. Where disagreement is observed, it is more reasonable to attribute the difference to instrumental difficulties than to a real time and space variability. Distinctive features in the graphs of the vertical distribution generally appear at a slightly different altitude when comparing an ascent and a descent sounding, with the features appearing at a higher altitude during ascent and lower during descent. This is due to the response lag of the sensor, which displaces the distribution upward for the ascent sounding and downward for the descent sounding. The most probable altitude of the feature is between the ascent and descent indicated levels, slightly closer to ascent level because the response time of the sensor decreases with sensor temperature, and for these flights sensor temperatures were observed to be colder during descent.

Occasional large discrepancies in ozone amounts between ascent and descent may be the result of excessively low sensor temperatures during descent. A chemical heater which was employed to warm the sensors during the descent flight was not always effective in maintaining temperature at an optimum level. This temperature was monitored and the data were discarded whenever the temperature was too cold.

DATA COLLECTION AND PROCESSING

A timed programmer sequences the data transmission to provide 4-sec readings of ozone and temperature at 30- and 60-sec intervals, respectively. Frost-point temperature and reference readings are taken during the intervening times, with 60 percent of transmission time allocated to frost-point temperature.

Prior to data extraction, the recorder record is processed by connecting the temperature and ozone segments by straight lines and smoothing the frost-point temperature trace. The smoothed curve is a visual averaging of fluctuations over approximate intervals of 10 sec for frost points above -40°C, 15 sec for frost points of -40 to -80°C, and 30 sec for frost points lower than -80°C. Open intervals in the record of less than 2 min are closed with straight-line segments. Data are then extracted at 1/2-min intervals.

The vertical distribution of frost-point temperatures is obtained for the stratosphere by using the descent sounding data exclusively, and for the troposphere using descent data where available and ascent data to complete the tropospheric distribution. The upper portion of the ascent distribution, considered subject to significant contamination error, is not included in the composite distribution. The ambient air temperatures are derived from those portions of the record which were used for the composite frost-point distribution. Separate vertical distributions of ozone are obtained from the ascent and descent sounding data.

The frost-point temperatures and ambient air temperatures are graphically presented immediately following the text as distributions of temperature vs pressure height. A mixing-ratio scale in terms of grams of water vapor per gram of air and the single mixing ratio curve for the value 2×10^{-6} is shown for convenient reference. When applicable, the point of joining ascent data to descent data to form the composite curve is indicated by an arrow on the left of the chart.

The ozone concentrations are graphically presented on the conventional ozonagram as distributions of ozone partial pressure (OZONE in data tables) and ozone mass-mixing-ratio (MIXRT in data tables) vs pressure height. The ozone graphs, for convenient cross reference, have the same pressure height scale as the frost-point temperature and air temperature graph for each flight. The total ozone in a vertical column, which appears in tabular form on the graphs (values from the data tables multiplied by 10^3), is determined by integrating the observed ozone amount to the top of the flight and adding the estimated residual ozone above the highest flight level by assuming a constant mixing ratio equal to the mixing ratio at the highest altitude. For descents which did not provide data to ground level, the integrated ozone (TOTOZ in data tables) is obtained from the descent data to the lowest altitude for which data are available and the ascent data below this level.

Data tabulations follow the graphs. Values of pressure, P or PRESS in millibars; air temperature, T or TEMP; frost-point temperature, F; ozone partial pressure, OZONE in micromillibars; water vapor mass mixing ratio, w in grams per hilogram; ozone mass mixing ratio, MIXRT in micrograms per gram; and potential temperature, θ or POT T appear for all datum levels. The water vapor content M between successive levels is computed and expressed as centimeters of water at standard temperature and pressure. The lowest datum level is not the surface, nor is the surface level given. Cumulative water vapor content ΣM and integrated ozone TOTOZ in centimeters (std atm) are tabulated starting at the lowest datum level.

ACKNOWLEDGMENTS

The development of instrumentation was made possible through the support of the Naval Air Systems Command. Mr Walter Komhyr (ESSA), developer of the ECC ozonesonde, provided consultative services in the use of the sonde. Instrument preparation and field operations were ably conducted by Mr. W.W. Werner and Mr. R.E. Daniels.

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6. Mastenbrook, H.J., "Frost-Point Hygrometer Measurements in the Stratosphere and the Problem of Moisture Contamination," Humidity and Moisture; Measurement and Control in Science and Industry; Vol. 2, New York, Reinhold, 1965, pp. 480-485

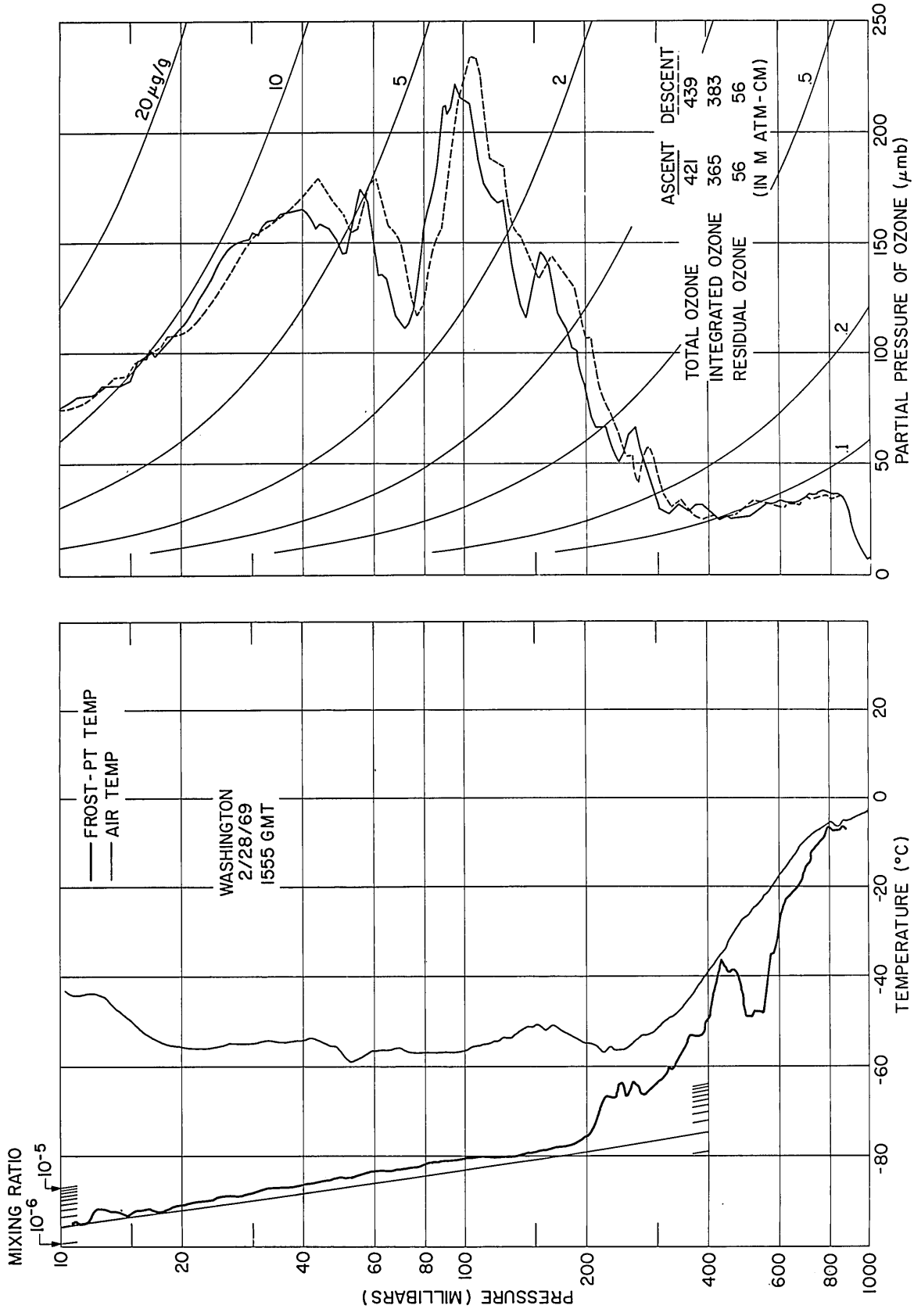
20 μg/g
10
5
2
1
.5
ASCENT DESCENT
421 439
TOTAL OZONE 365 383
INTEGRATED OZONE 56 56
RESIDUAL OZONE (IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0 50 100 150 200 250
FROST-PT TEMP
AIR TEMP
WASHINGTON
2/28/69
1555 GMT
TEMPERATURE (°C)
-80 -60 -40 -20 0 20
MIXING RATIO
10^-6 10^-5
PRESSURE (MILLIBARS)
10 20 40 60 80 100 200 400 600 800 1000

Figure 1

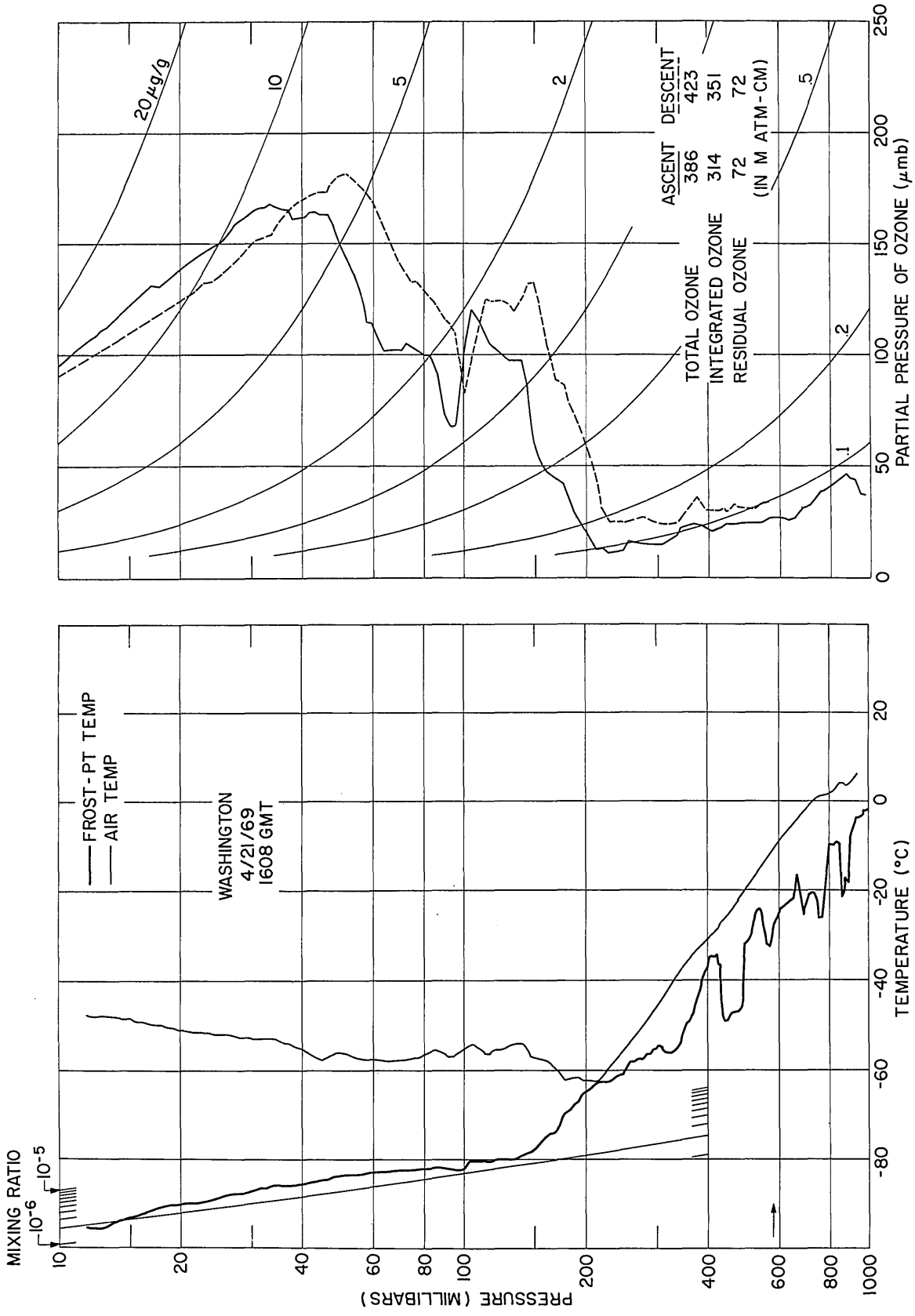
20 μg/g
10
5
2
1
.5
.2
ASCENT DESCENT
386 423
TOTAL OZONE 314 351
INTEGRATED OZONE 72 72
RESIDUAL OZONE (IN M ATM-CM)
0 50 100 150 200 250
PARTIAL PRESSURE OF OZONE (μmb)
FROST-PT TEMP
AIR TEMP
WASHINGTON
4/21/69
1608 GMT
MIXING RATIO
10⁻⁶ 10⁻⁵
10 20 40 60 80 100 200 400 600 800 1000
PRESSURE (MILLIBARS)
-80 -60 -40 -20 0 20
TEMPERATURE (°C)

Figure 2

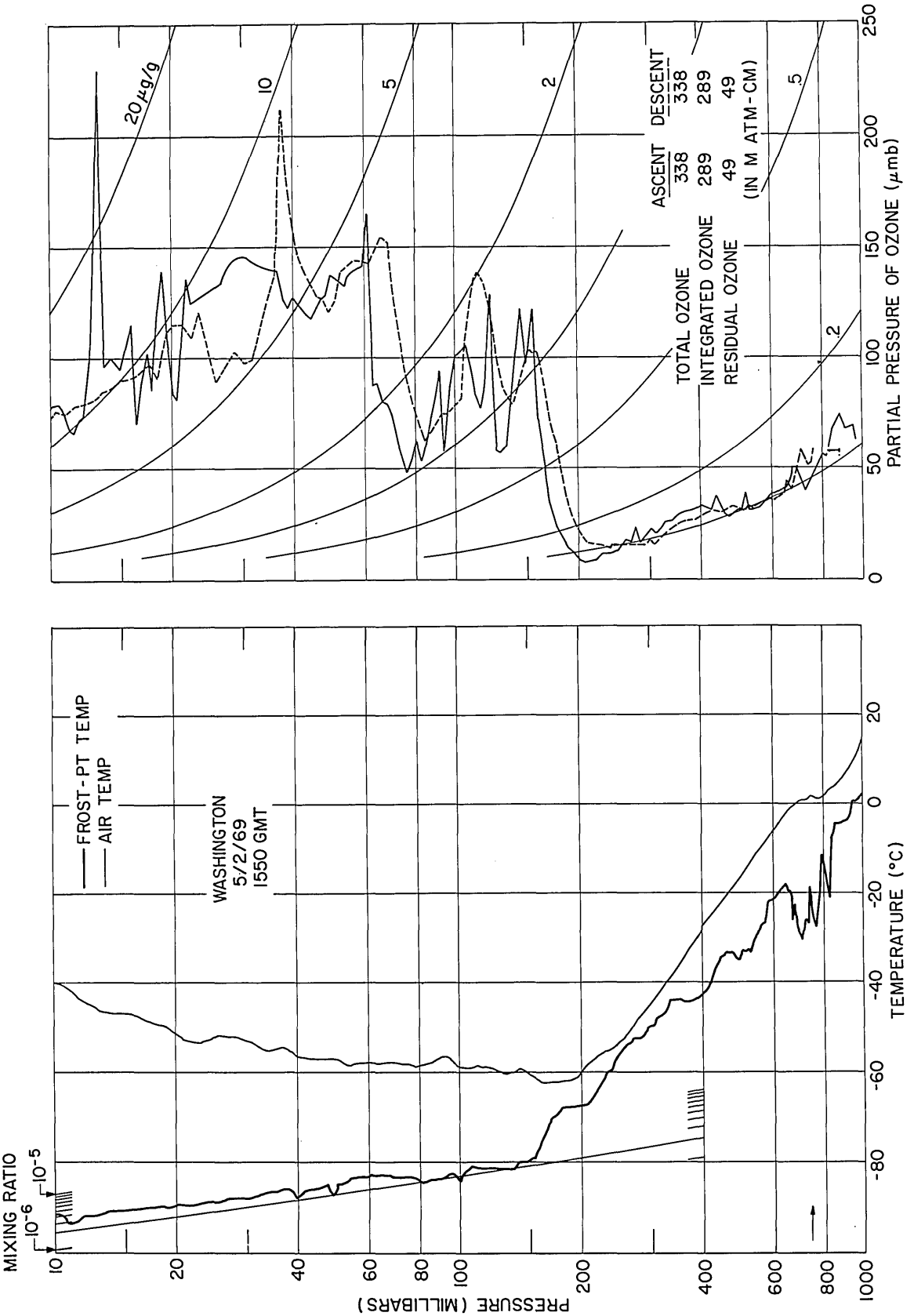
20 μg/g
10
5
2
.5
.2
.1
ASCENT DESCENT
338 338
TOTAL OZONE 289 289
INTEGRATED OZONE 49 49
RESIDUAL OZONE (IN M ATM-CM)
0 50 100 150 200 250
PARTIAL PRESSURE OF OZONE (μmb)
FROST-PT TEMP
AIR TEMP
WASHINGTON
5/2/69
1550 GMT
MIXING RATIO
10 10-6 10-5
20 40 60 80 100 200 400 600 800 1000
PRESSURE (MILLIBARS)
-80 -60 -40 -20 0 20
TEMPERATURE (°C)

Figure 3

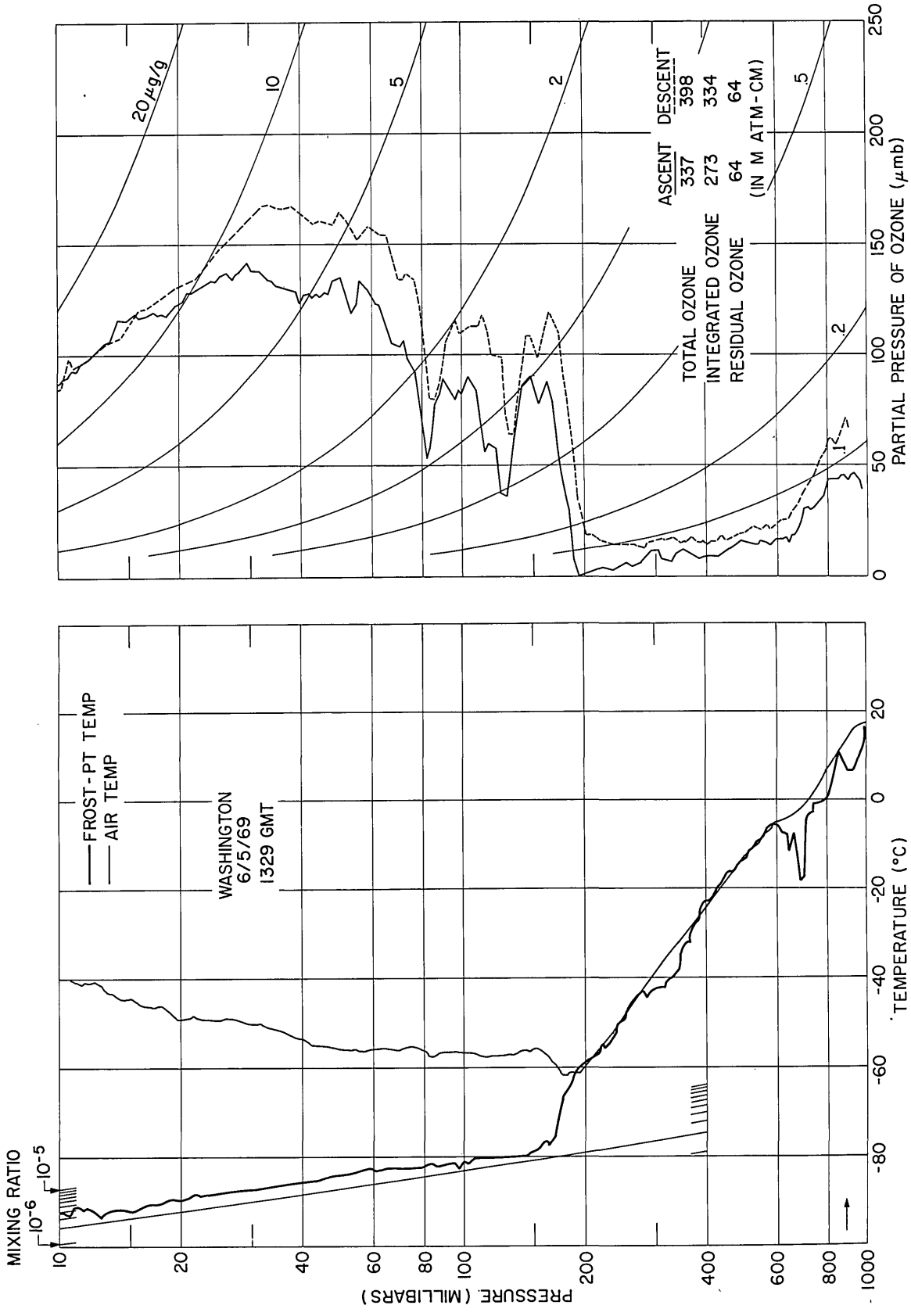
MIXING RATIO
10^{-5}
10^{-6}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
6/5/69
1329 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20 μg/g
10
5
2
1
.5
.2
.1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
337 398
273 334
64 64
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 4

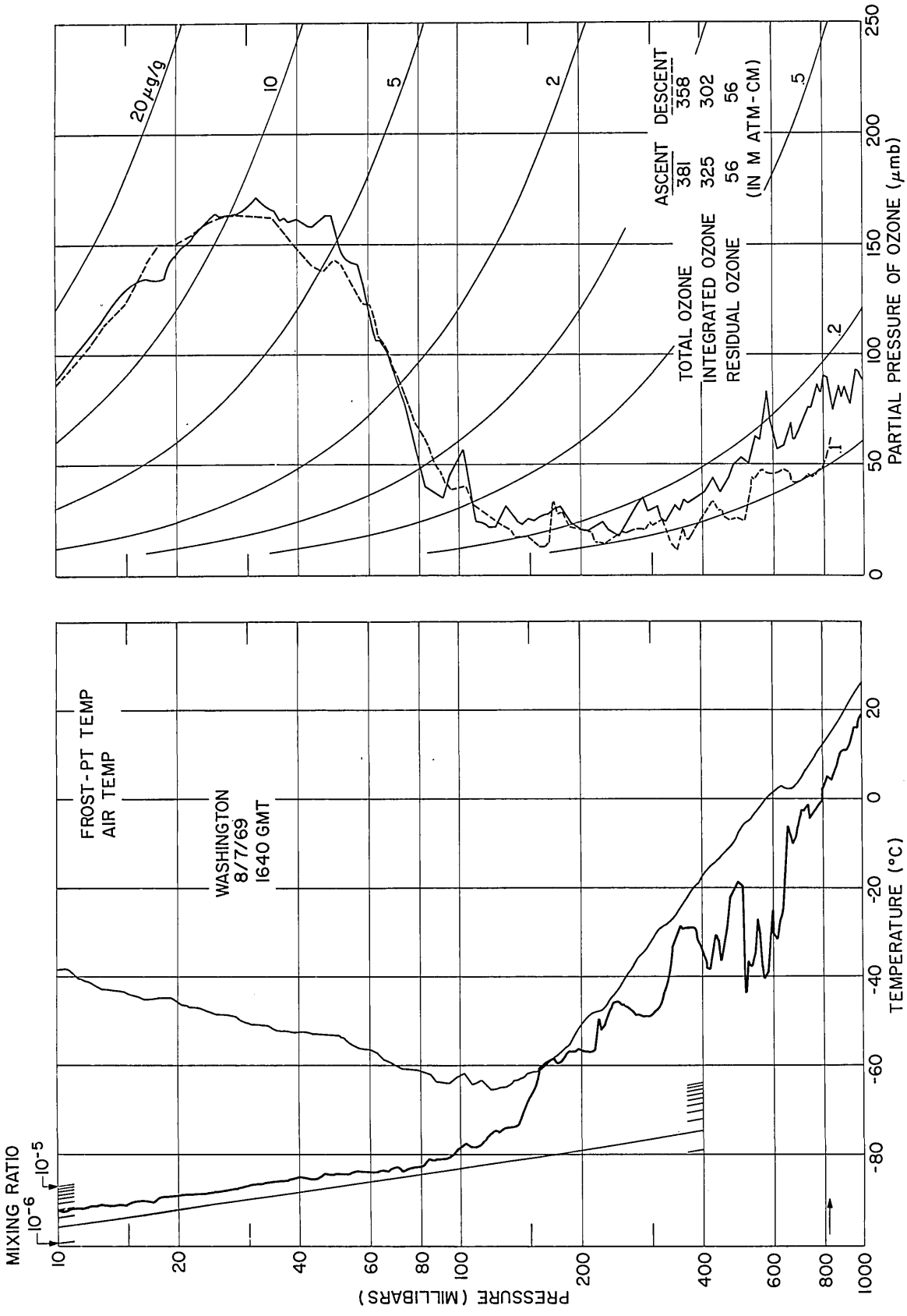
20 μg/g
10
5
2
1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
381 358
325 302
56 56
(IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0
50
100
150
200
250
FROST-PT TEMP
AIR TEMP
WASHINGTON
8/7/69
1640 GMT
MIXING RATIO
10⁻⁶
10⁻⁵
PRESSURE (MILLIBARS)
10
20
40
60
80
100
200
400
600
800
1000
TEMPERATURE (°C)
-80
-60
-40
-20
0
20

Figure 5

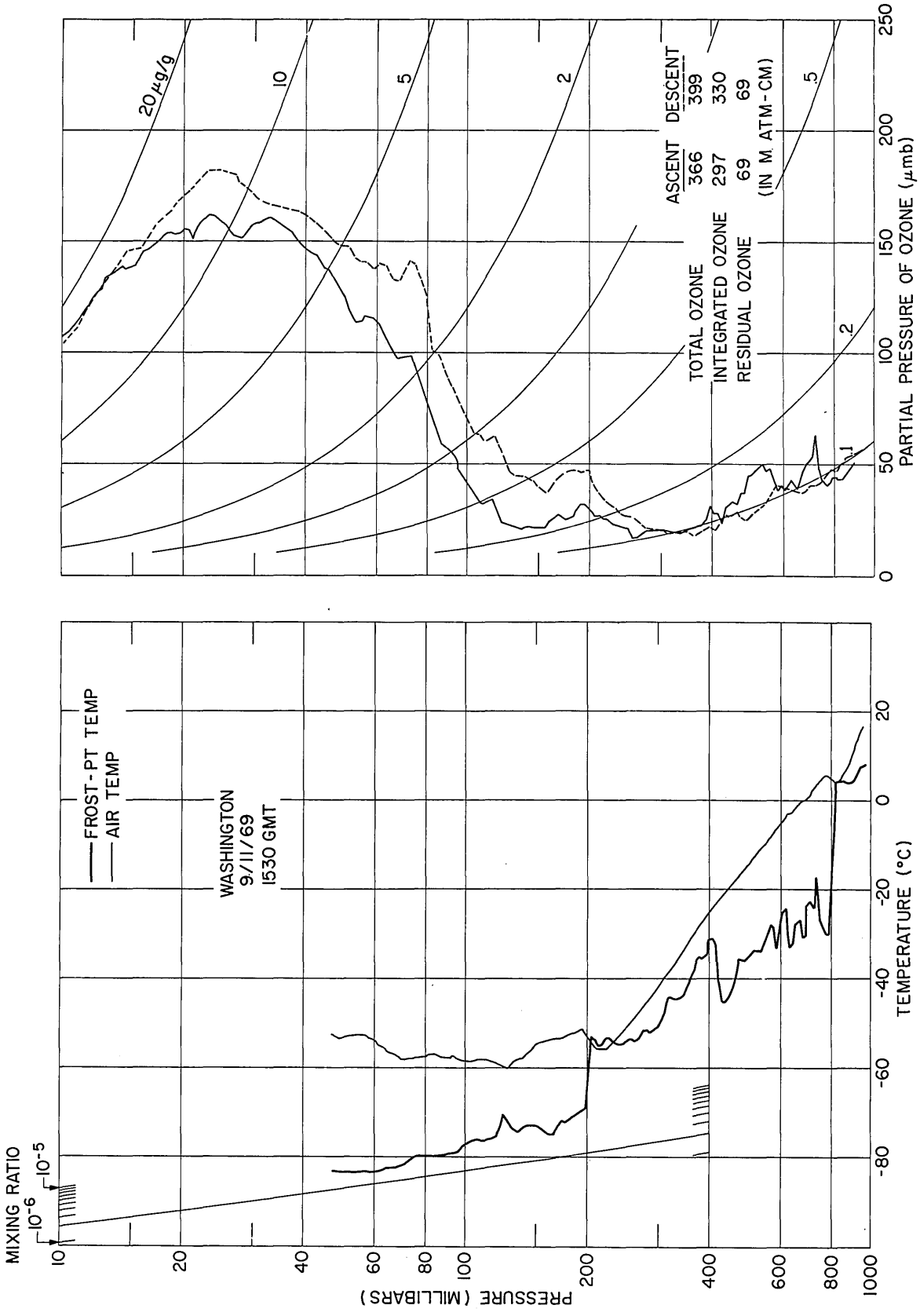
MIXING RATIO
10^{-6}
10^{-5}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
9/11/69
1530 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20μg/g
10
5
2
1
.5
.2
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
366 399
297 330
69 69
(IN M. ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 6

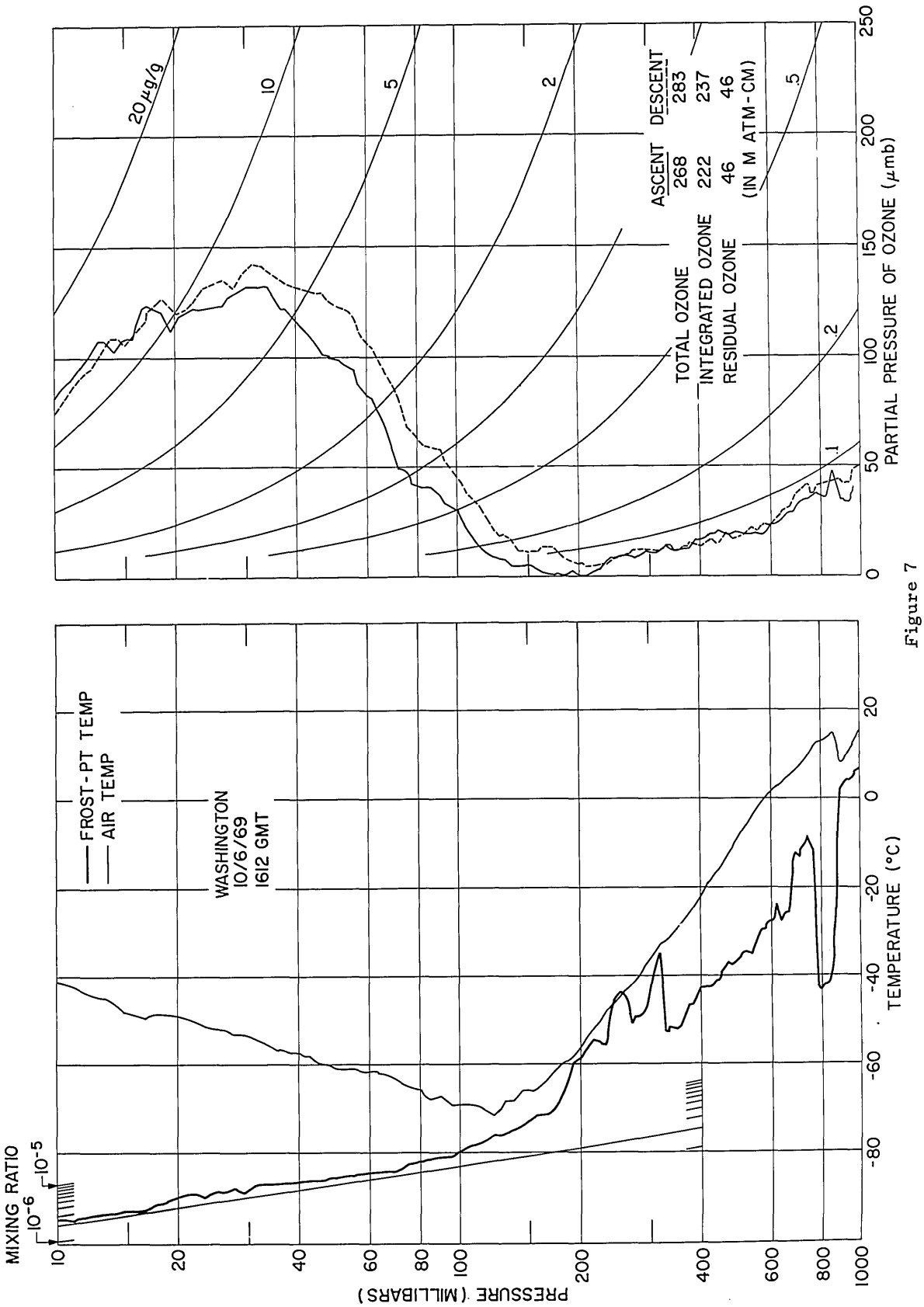
MIXING RATIO
10^{-5}
10^{-6}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
10/6/69
1612 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20 μg/g
10
5
2
1
.5
ASCENT DESCENT
268 283
222 237
46 46
(IN M ATM-CM)
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 7

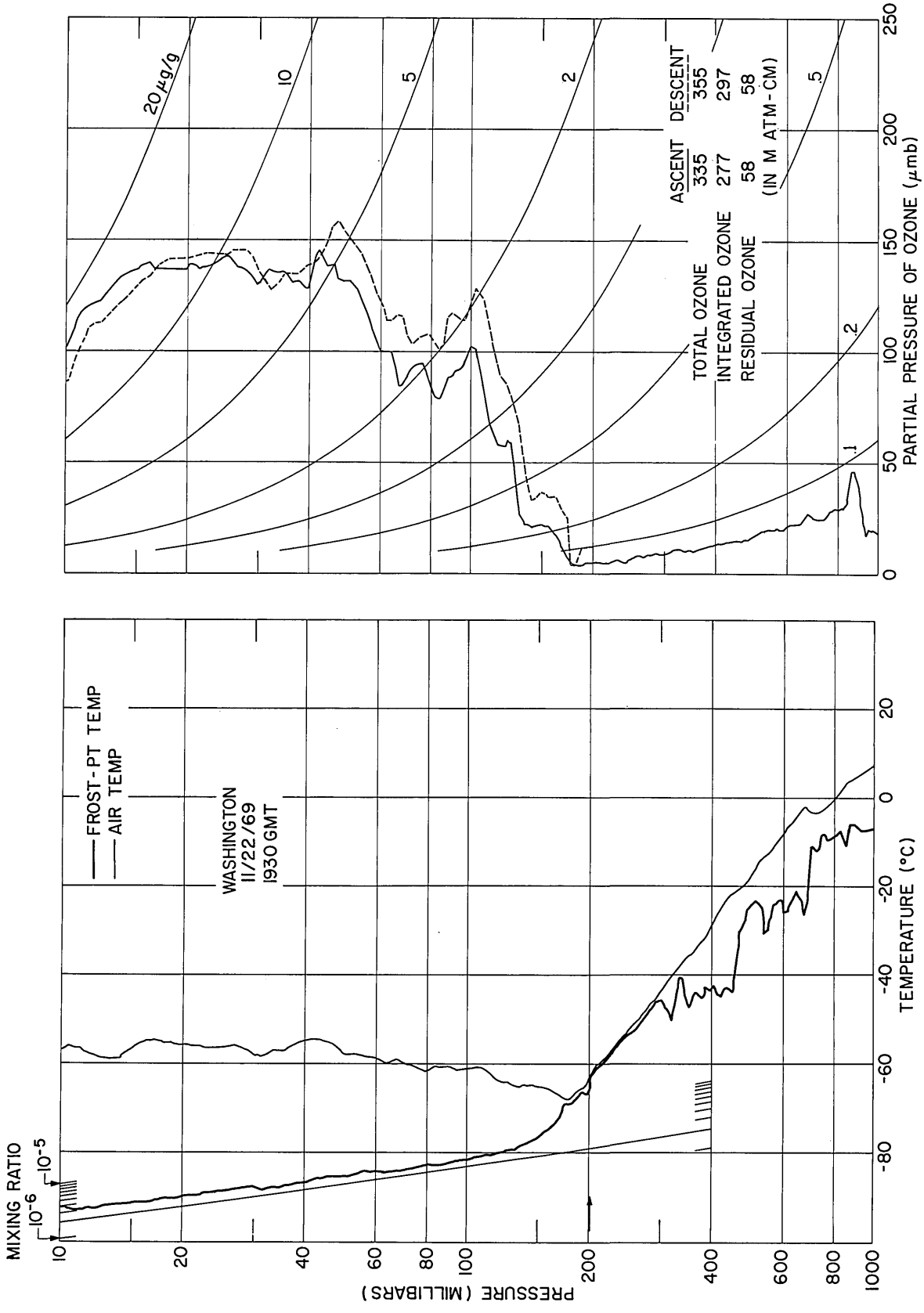
MIXING RATIO
10^{-6}
10^{-5}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
11/22/69
1930 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20 μg/g
10
5
2
1
.5
.2
.1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
335 355
277 297
58 58
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 8

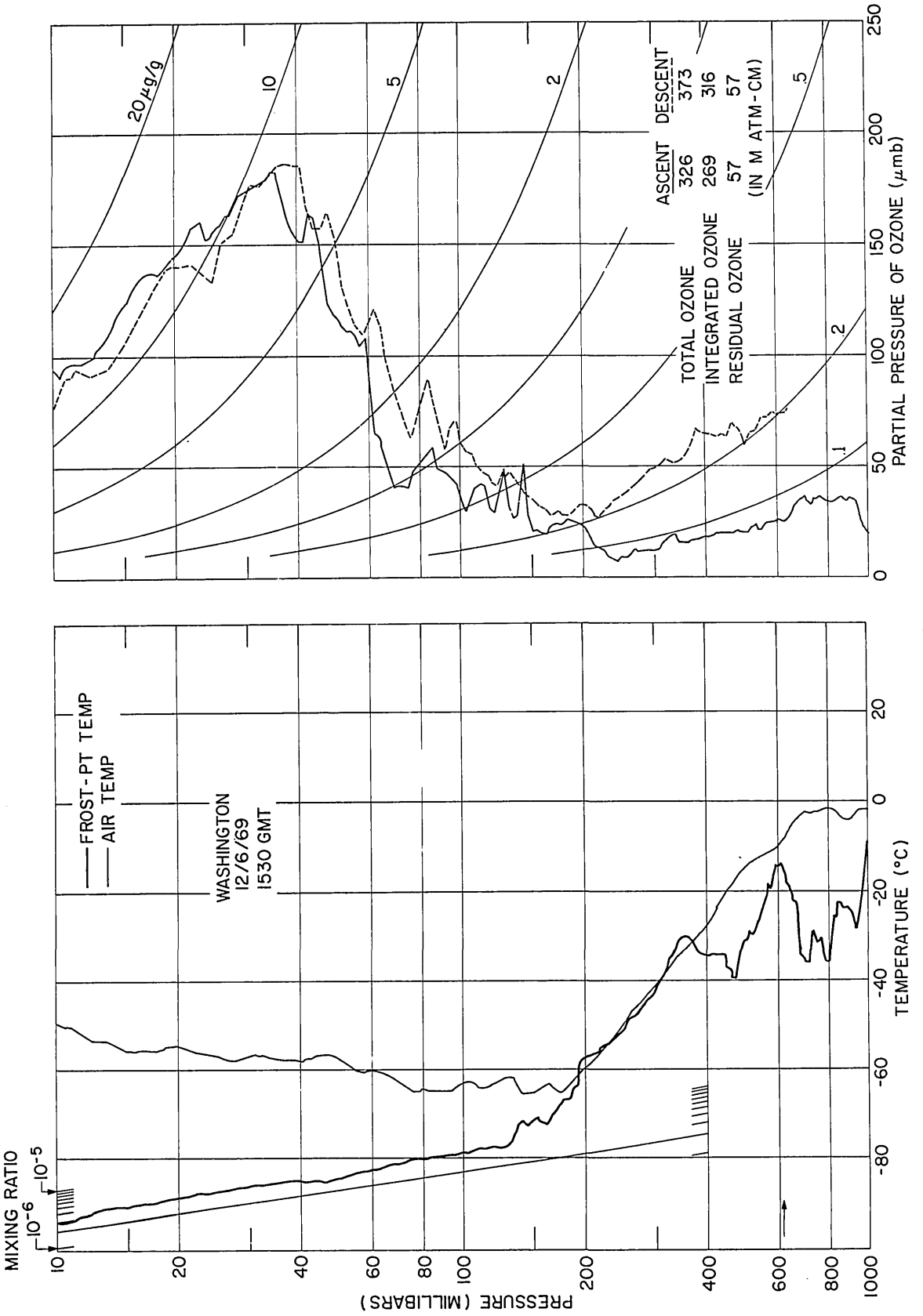
MIXING RATIO
10^{-5}
10^{-6}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
12/6/69
1530 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20μg/g
10
5
2
1
ASCENT DESCENT
326 373
TOTAL OZONE
269 316
INTEGRATED OZONE
57 57
RESIDUAL OZONE
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 9

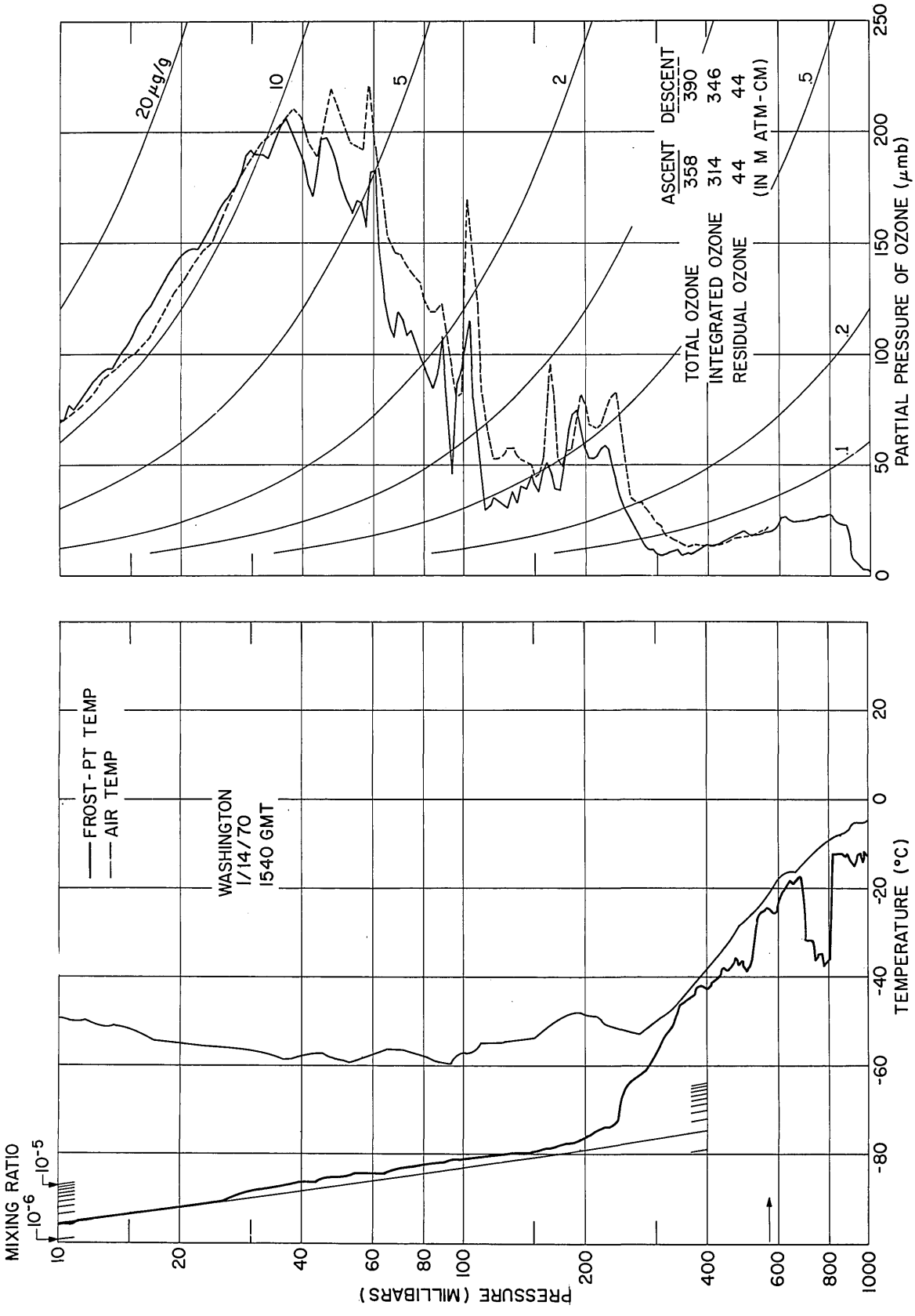
MIXING RATIO
10^{-6}
10^{-5}
PRESSURE (MILLIBARS)
10
20
40
60
80
100
200
400
600
800
1000
FROST-PT TEMP
AIR TEMP
WASHINGTON
1/14/70
1540 GMT
TEMPERATURE (°C)
-80
-60
-40
-20
0
20
20 μg/g
10
5
2
.1
.5
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
358 390
314 346
44 44
(IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0
50
100
150
200
250

Figure 10

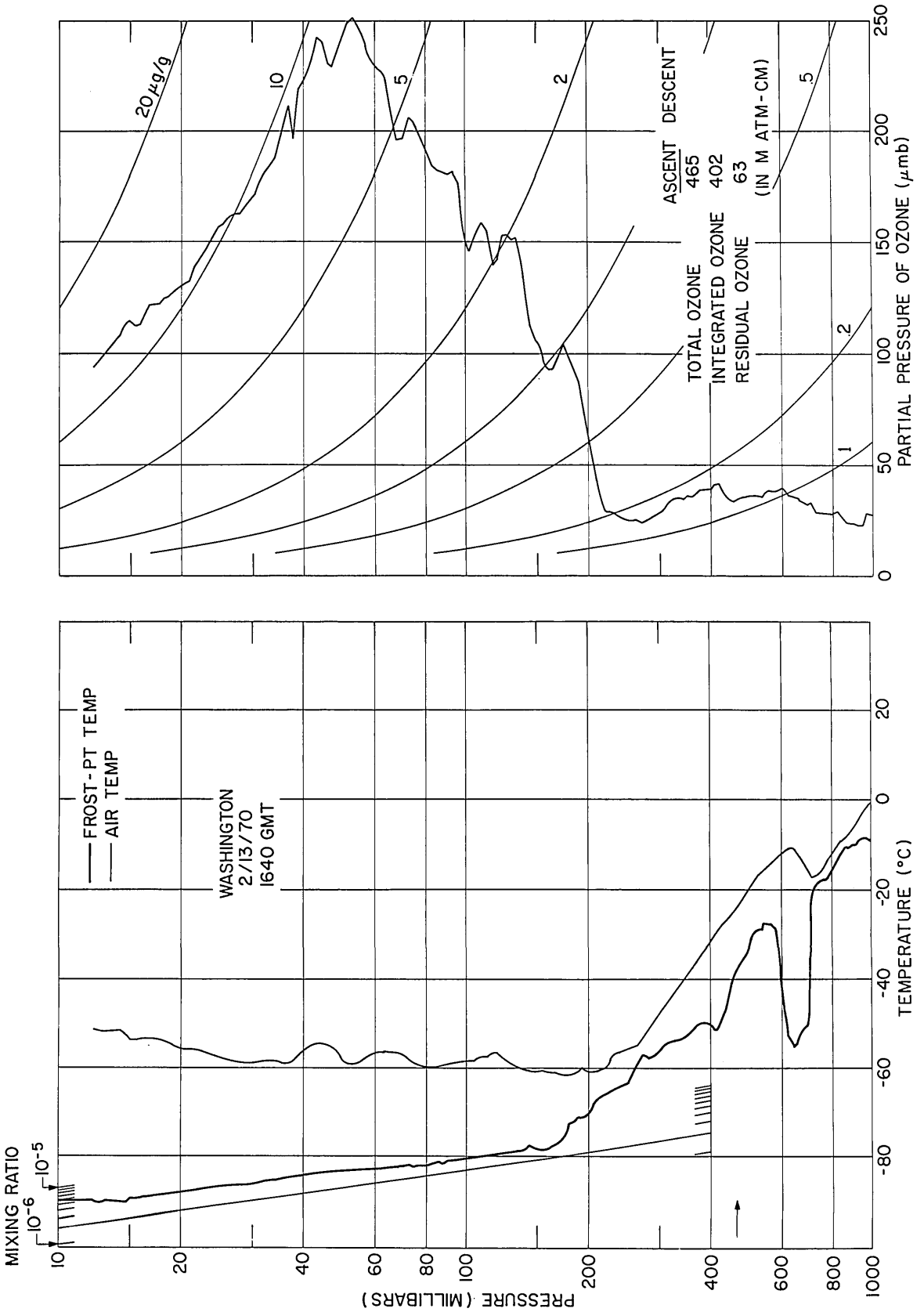
MIXING RATIO
10^{-5}
10^{-6}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
2/13/70
1640 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20μg/g
10
5
2
1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
465
402
63
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 11

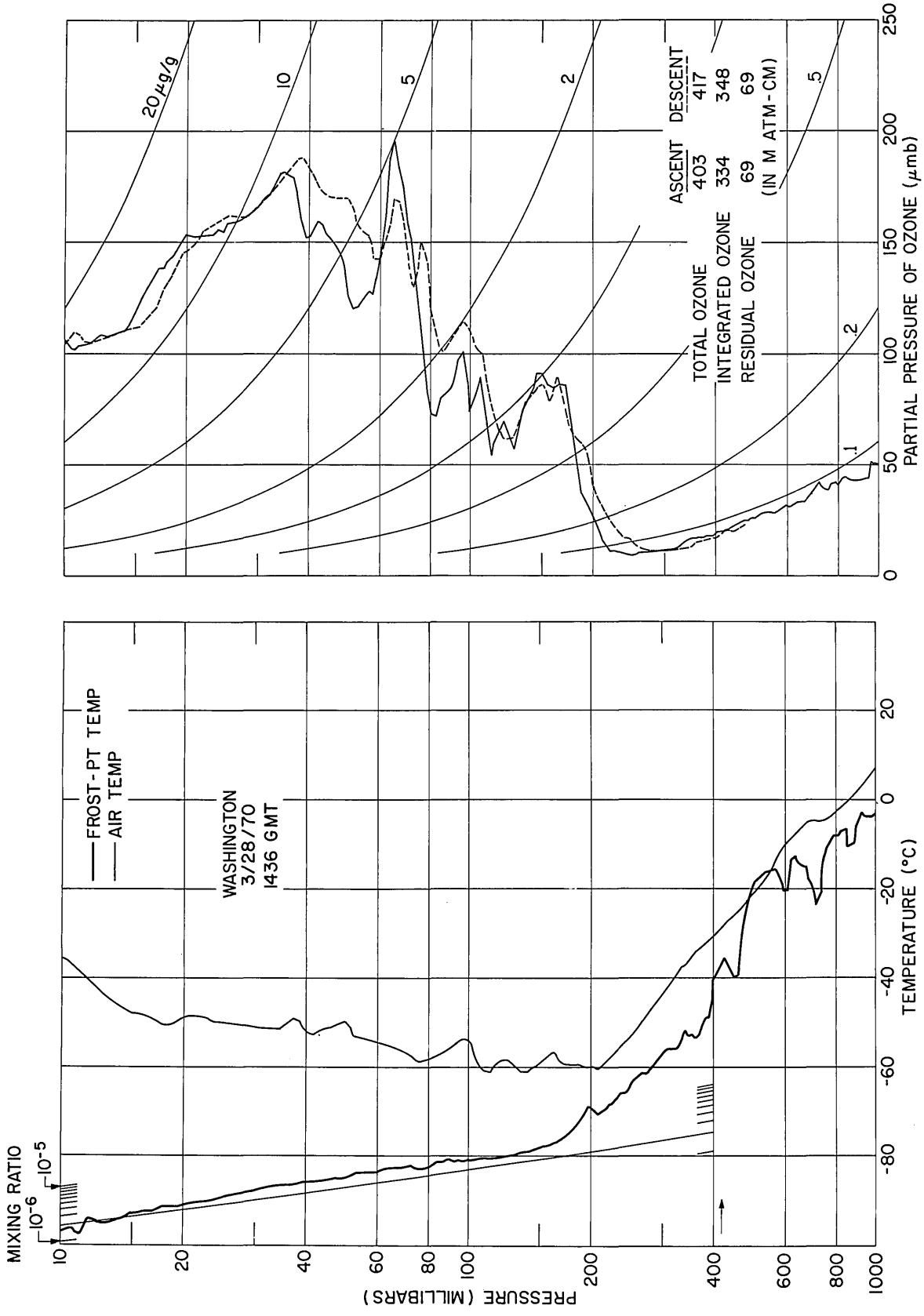
20 μg/g
10
5
2
.5
.2
.1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
403 417
334 348
69 69
(IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0 50 100 150 200 250
FROST-PT TEMP
AIR TEMP
WASHINGTON
3/28/70
1436 GMT
MIXING RATIO
10 10-6 10-5
PRESSURE (MILLIBARS)
10 20 40 60 80 100 200 400 600 800 1000
TEMPERATURE (°C)
-80 -60 -40 -20 0 20

Figure 12

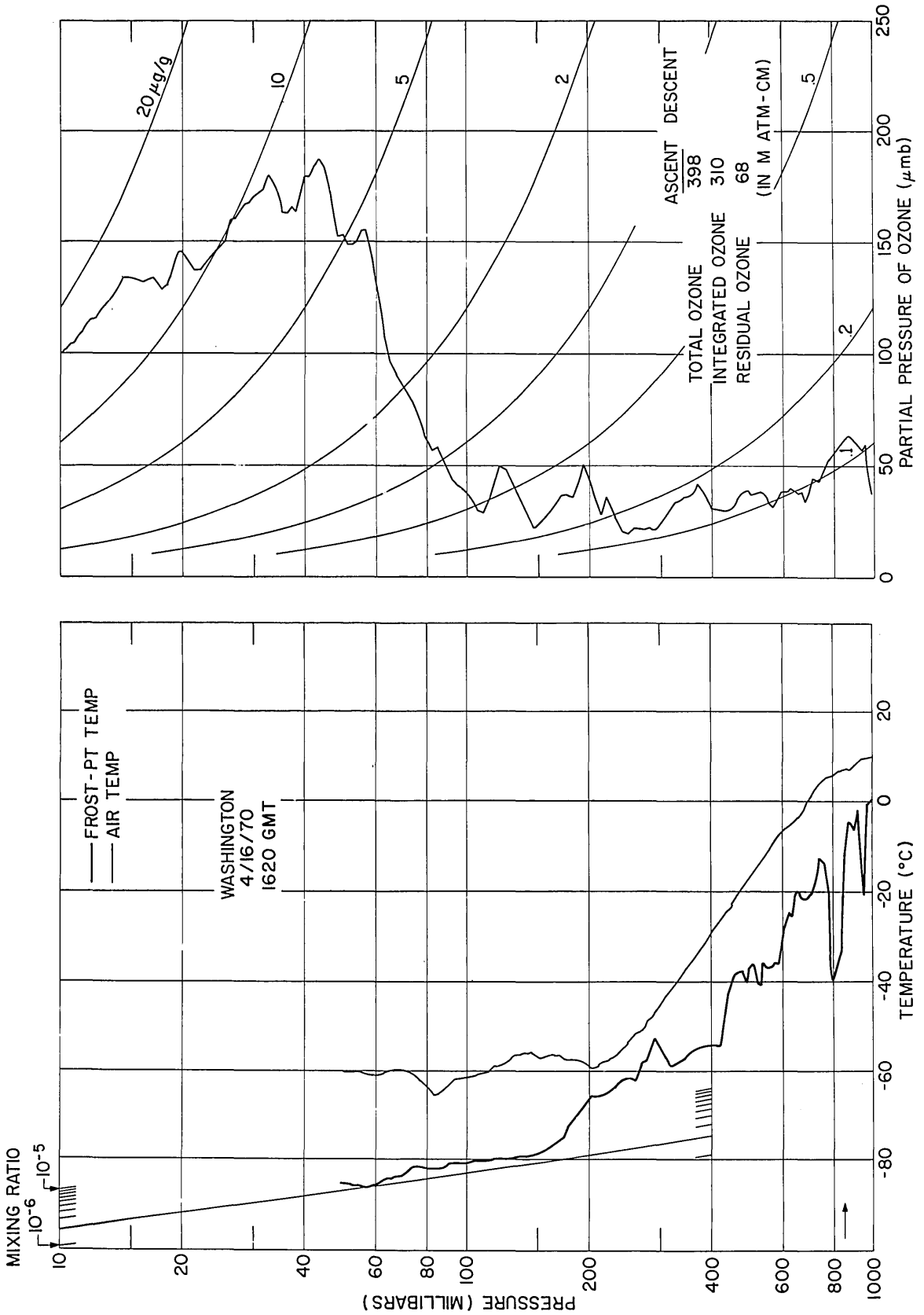
MIXING RATIO
10^{-6}
10^{-5}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
4/16/70
1620 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20 μg/g
10
5
2
1
.5
.2
.1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
398
310
68
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 13

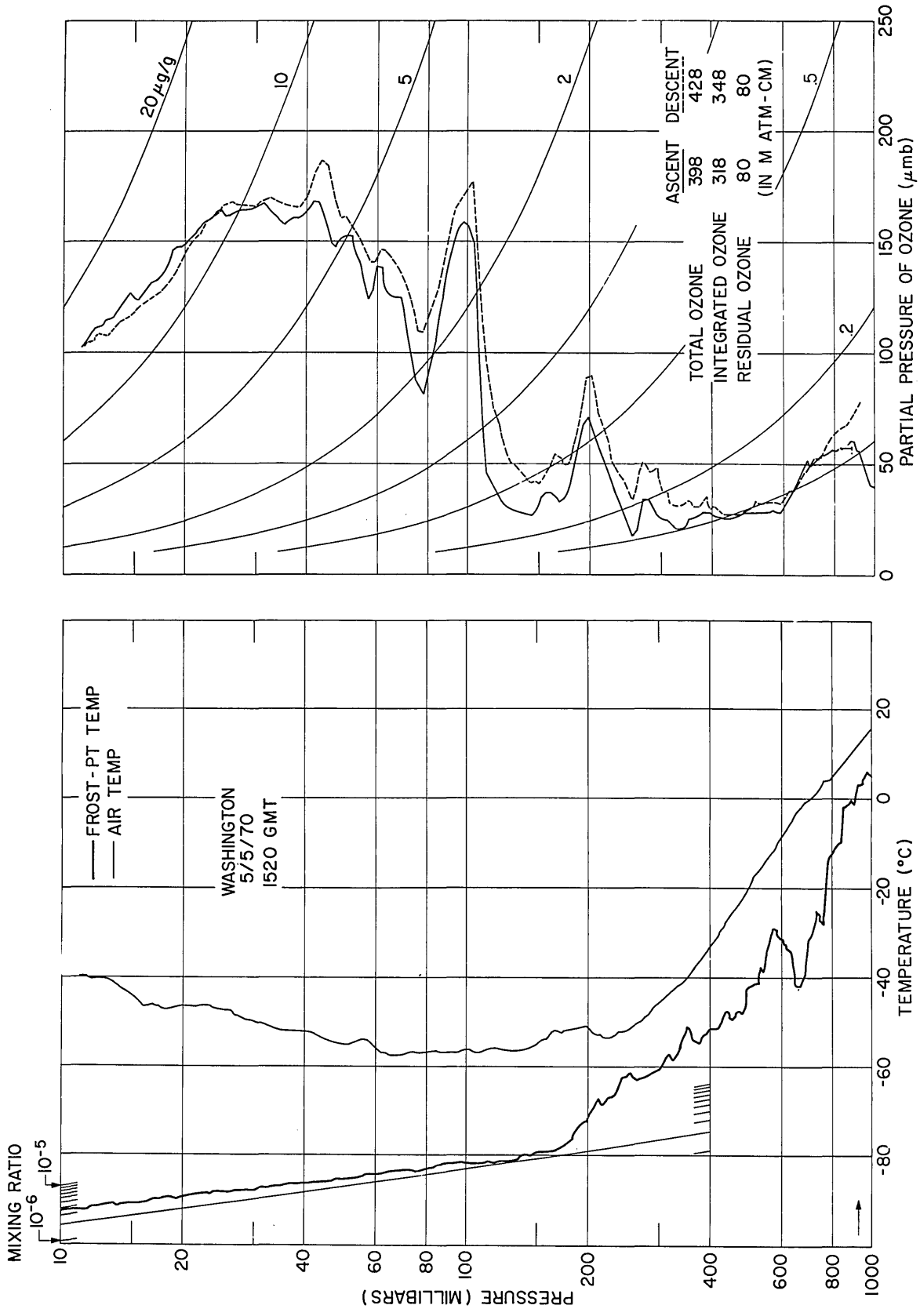
MIXING RATIO
10^{-5}
10^{-6}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
5/5/70
1520 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20μg/g
10
5
2
.5
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
398 428
318 348
80 80
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 14

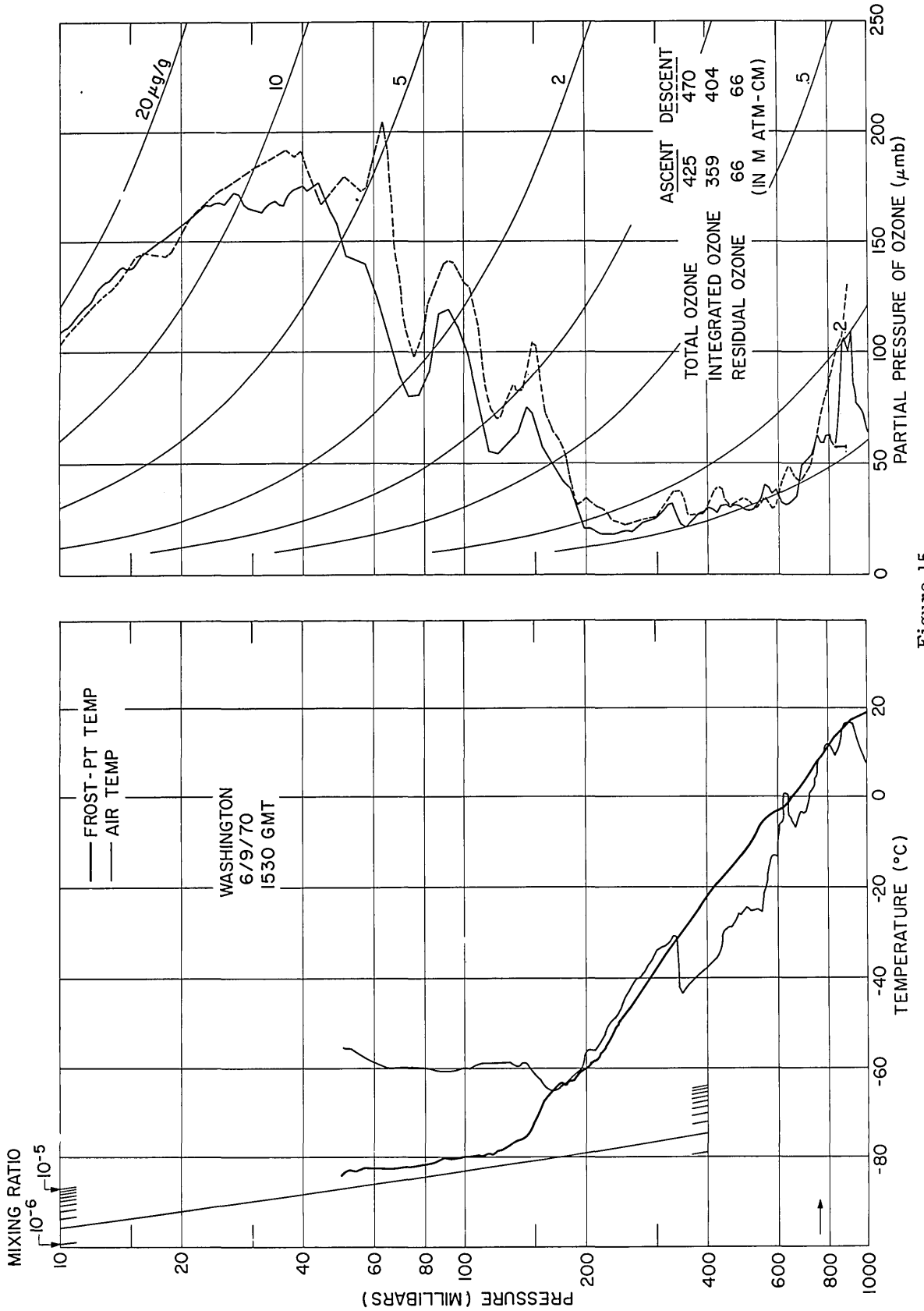
20μg/g
10
5
2
1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
425 470
359 404
66 66
(IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0 50 100 150 200 250
FROST-PT TEMP
AIR TEMP
WASHINGTON
6/9/70
1530 GMT
MIXING RATIO
10⁻⁶ 10⁻⁵
10 20 40 60 80 100 200 400 600 800 1000
PRESSURE (MILLIBARS)
-80 -60 -40 -20 0 20
TEMPERATURE (°C)

Figure 15

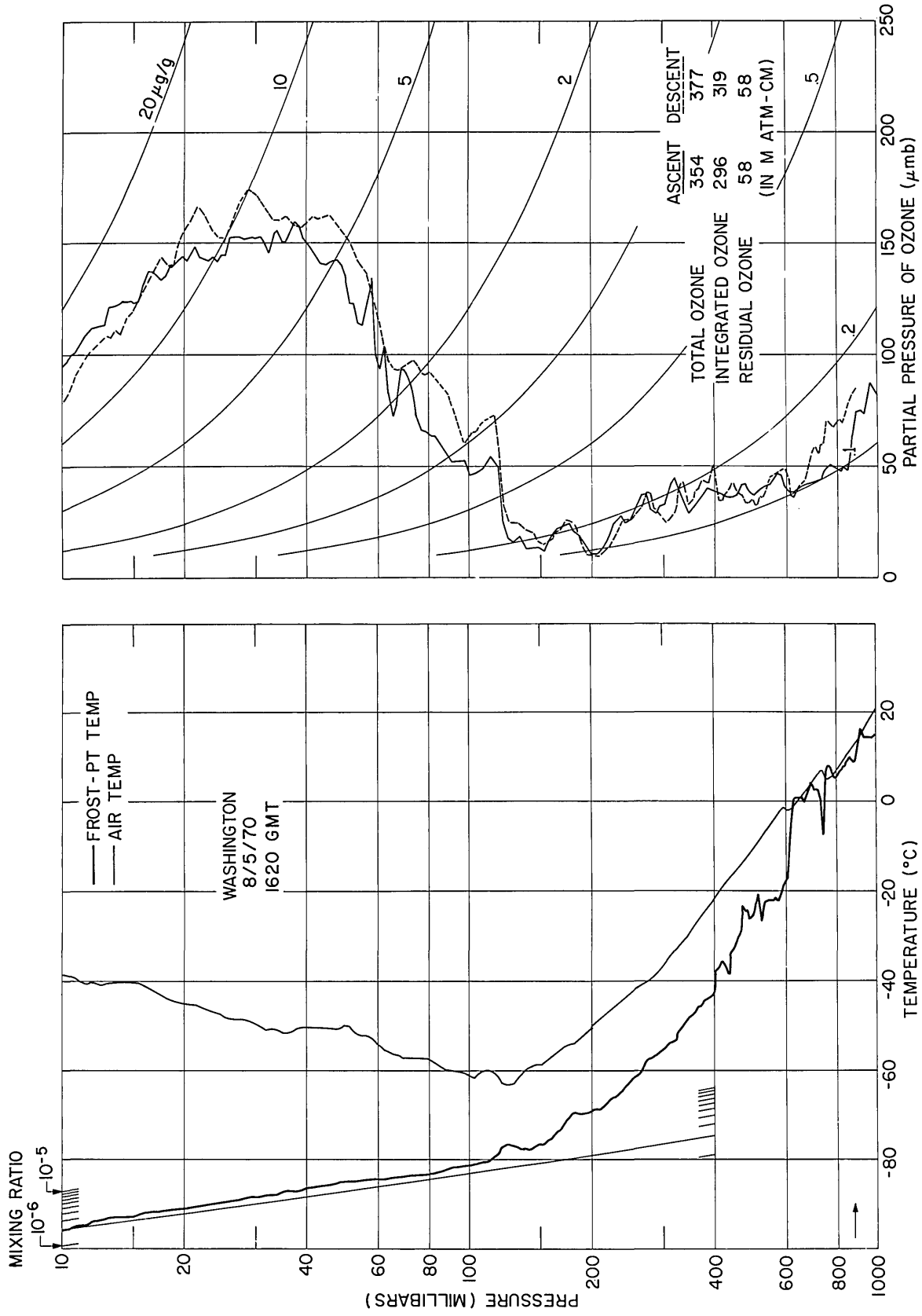
MIXING RATIO
10^{-5}
10^{-6}
10
20
40
60
80
100
200
400
600
800
1000
PRESSURE (MILLIBARS)
FROST-PT TEMP
AIR TEMP
WASHINGTON
8/5/70
1620 GMT
-80
-60
-40
-20
0
20
TEMPERATURE (°C)
20μg/g
10
5
2
1
.5
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
354 377
296 319
58 58
(IN M ATM-CM)
0
50
100
150
200
250
PARTIAL PRESSURE OF OZONE (μmb)

Figure 16

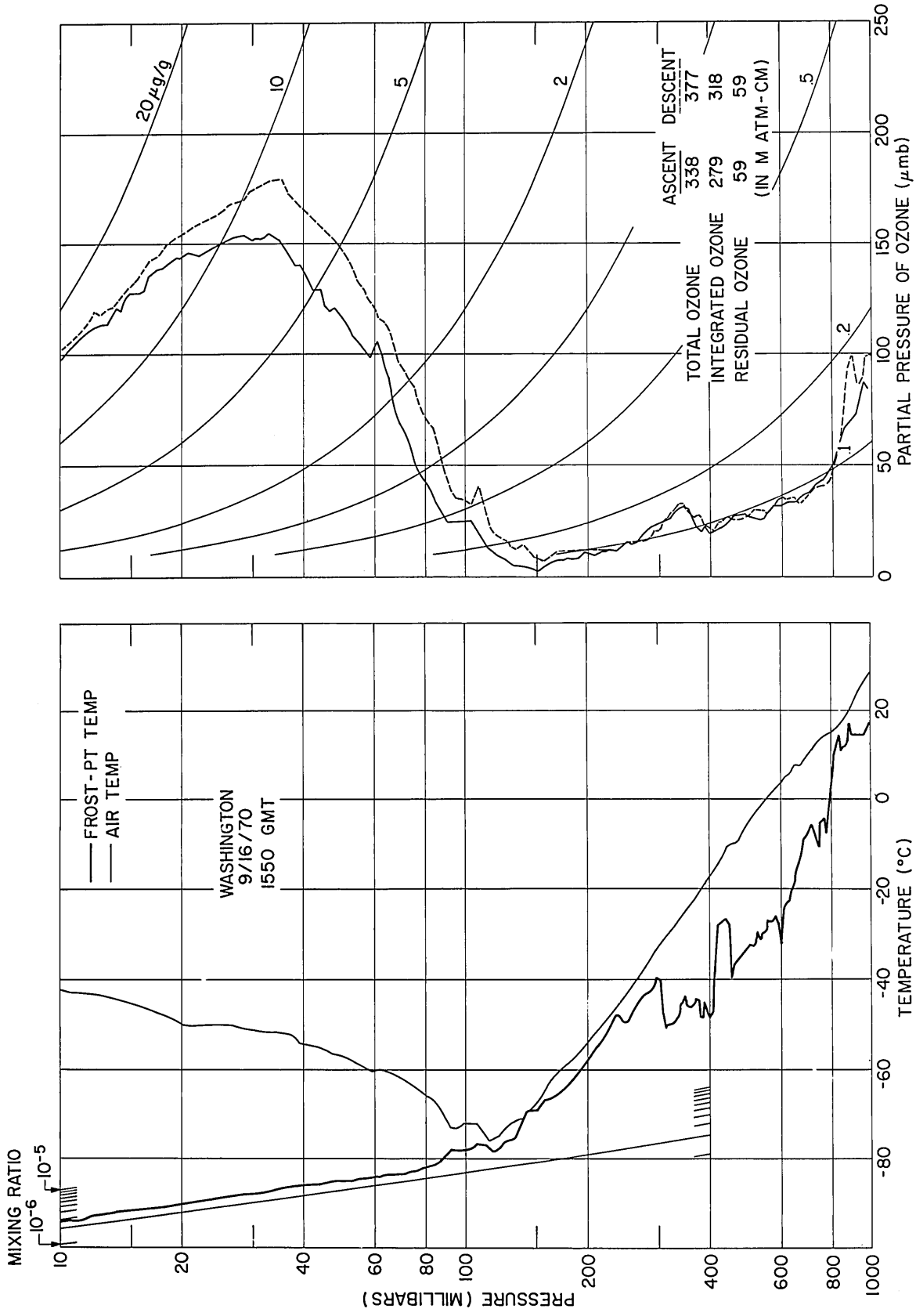
MIXING RATIO
10
10^{-6}
10^{-5}
PRESSURE (MILLIBARS)
20
40
60
80
100
200
400
600
800
1000
FROST-PT TEMP
AIR TEMP
WASHINGTON
9/16/70
1550 GMT
TEMPERATURE (°C)
-80
-60
-40
-20
0
20
20μg/g
10
5
2
1
TOTAL OZONE
INTEGRATED OZONE
RESIDUAL OZONE
ASCENT DESCENT
338 377
279 318
59 59
(IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0
50
100
150
200
250

Figure 17

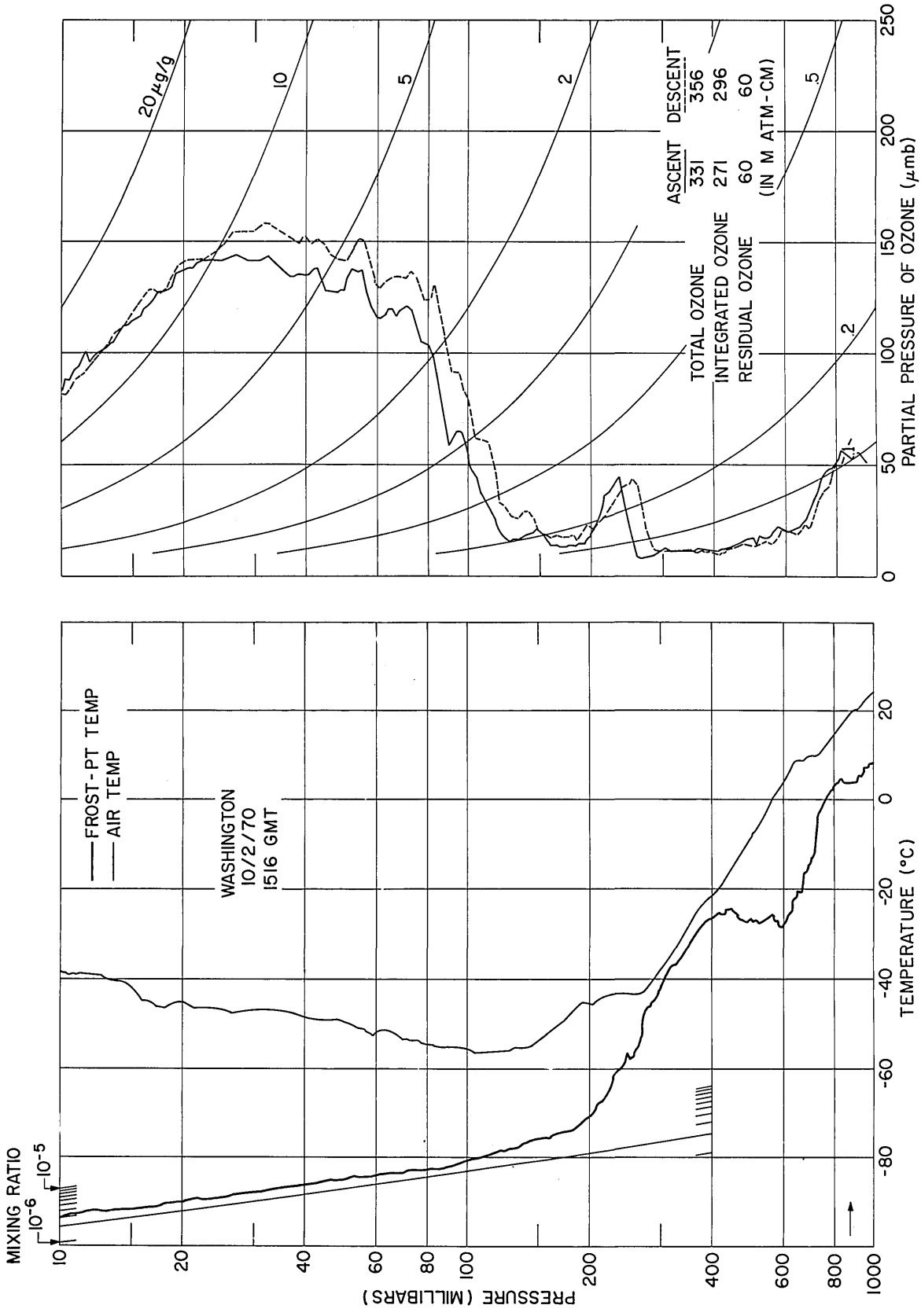
20μg/g
10
5
2
.5
.2
ASCENT DESCENT
331 356
TOTAL OZONE 271 296
INTEGRATED OZONE 60 60
RESIDUAL OZONE (IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0 50 100 150 200 250
FROST-PT TEMP
AIR TEMP
WASHINGTON
10/2/70
1516 GMT
MIXING RATIO
10 10^{-6} 10^{-5}
PRESSURE (MILLIBARS)
10 20 40 60 80 100 200 400 600 800 1000
TEMPERATURE (°C)
-80 -60 -40 -20 0 20

Figure 18

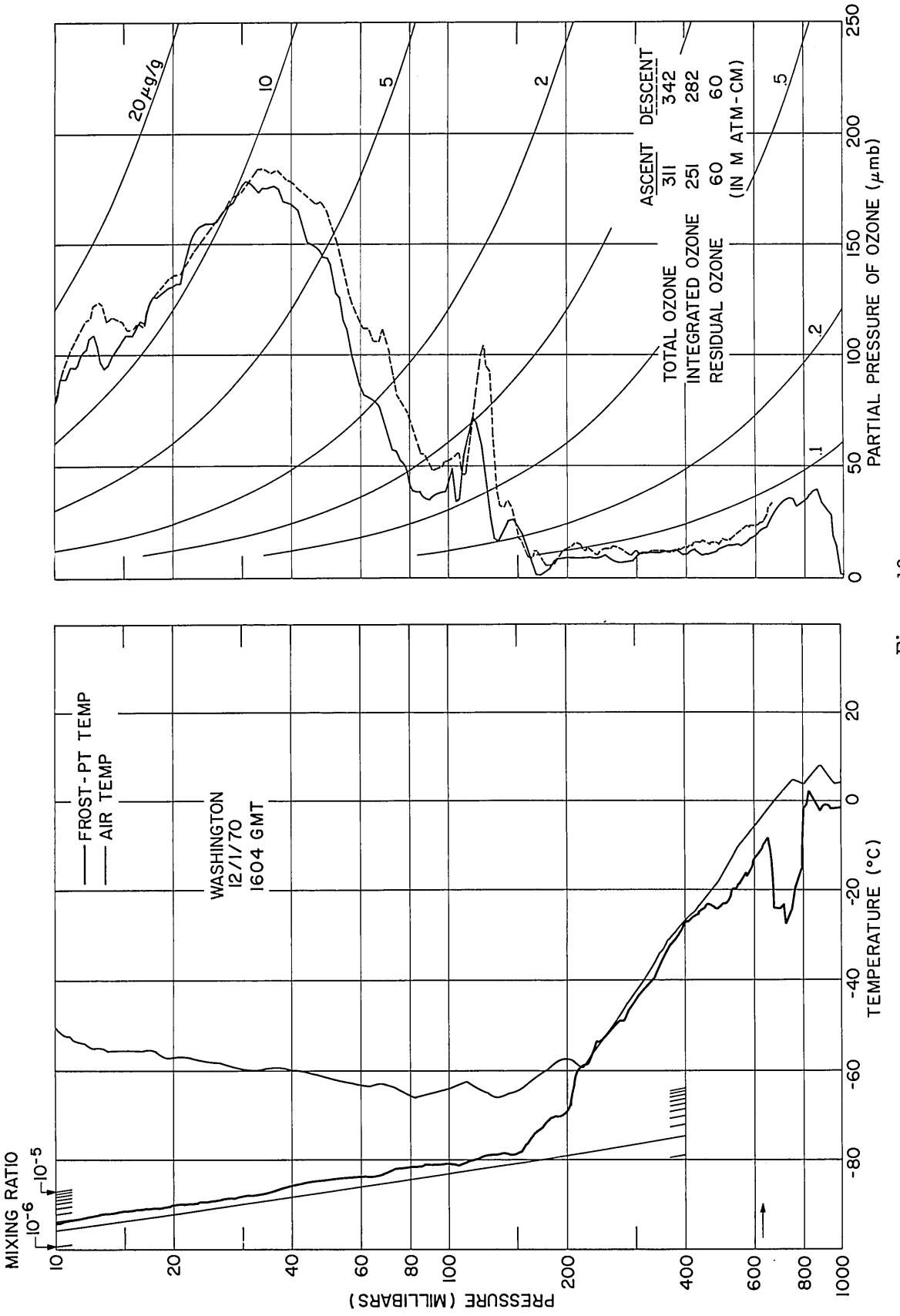
20μg/g
10
5
2
.5
.2
.1
ASCENT DESCENT
311 342
TOTAL OZONE 251 282
INTEGRATED OZONE 60 60
RESIDUAL OZONE (IN M ATM-CM)
PARTIAL PRESSURE OF OZONE (μmb)
0 50 100 150 200 250
FROST-PT TEMP
AIR TEMP
WASHINGTON
12/1/70
1604 GMT
MIXING RATIO
10⁻⁶ 10⁻⁵
10 20 40 60 80 100 200 400 600 800 1000
PRESSURE (MILLIBARS)
-80 -60 -40 -20 0 20
TEMPERATURE (°C)

Figure 19

Table 2

WASHINGTON,D.C. 2/28/69 1555Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
876.00	-5.0	-6.9	2.42504	278.5		
868.00	-5.7	-6.4	2.57033	278.5	0.02038925	0.02038925
856.00	-6.2	-6.9	2.48193	279.1	0.03093216	0.05132141
843.00	-6.5	-7.5	2.40228	280.0	0.03239528	0.08371669
830.00	-6.5	-7.5	2.44006	281.3	0.03211758	0.11583427
818.00	-6.1	-7.5	2.47600	282.9	0.03009829	0.14593256
806.00	-5.2	-6.9	2.63654	285.0	0.03130127	0.17723383
796.00	-5.5	-6.9	2.66981	285.6	0.02707323	0.20430707
788.00	-6.2	-7.5	2.57065	285.8	0.02138963	0.22569670
780.00	-6.5	-9.0	2.26146	286.3	0.01972290	0.24541959
767.00	-6.8	-10.0	2.10622	287.3	0.02896933	0.27438893
755.00	-7.4	-10.5	2.05015	288.0	0.02544716	0.29983609
745.00	-7.8	-11.0	1.99218	288.7	0.02062410	0.32046019
735.00	-8.1	-11.4	1.93759	289.4	0.02004984	0.34051003
725.30	-8.7	-12.8	1.74163	289.9	0.01820840	0.35871843
716.00	-8.9	-14.4	1.51661	290.7	0.01546004	0.37417847
706.00	-9.4	-15.2	1.43087	291.3	0.01503820	0.38921667
698.00	-10.1	-16.3	1.30350	291.6	0.01116072	0.40037739
689.00	-10.3	-18.1	1.11940	292.4	0.01112556	0.41150295
680.00	-11.1	-19.4	1.00107	292.6	0.00973683	0.42123978
671.50	-11.7	-20.0	0.95449	293.0	0.00848076	0.42972054
663.00	-12.5	-20.6	0.91148	293.2	0.00809222	0.43781276
655.00	-13.1	-20.9	0.89630	293.5	0.00737870	0.44519146
647.00	-13.9	-21.5	0.85717	293.6	0.00715704	0.45234850
638.00	-14.5	-22.4	0.79990	294.1	0.00760901	0.45995750
629.00	-15.3	-23.5	0.72903	294.4	0.00702059	0.46697810
621.00	-15.9	-24.2	0.68334	294.8	0.00576475	0.47274285
612.00	-16.6	-25.7	0.59756	295.1	0.00588167	0.47862452
604.00	-17.4	-28.0	0.48039	295.4	0.00439979	0.48302431
596.00	-18.2	-31.8	0.32826	295.6	0.00330063	0.48632494
588.00	-18.9	-34.9	0.23894	295.9	0.00231512	0.48864006
580.00	-19.7	-35.1	0.23805	296.2	0.00194691	0.49058697
573.00	-20.7	-35.2	0.23683	296.0	0.00169600	0.49228297
566.00	-21.5	-38.8	0.16223	296.1	0.00142520	0.49370817
558.00	-21.8	-45.2	0.07873	296.9	0.00098351	0.49469168
550.00	-22.3	-47.5	0.06018	297.5	0.00056698	0.49525866
542.00	-23.1	-48.4	0.05491	297.9	0.00046977	0.49572843
534.00	-23.9	-48.1	0.05773	298.2	0.00045977	0.49618820
526.50	-24.5	-47.9	0.05995	298.6	0.00045031	0.49663851
519.00	-25.3	-48.6	0.05602	298.9	0.00044378	0.49708229
511.50	-25.8	-49.2	0.05304	299.6	0.00041734	0.49749963
504.00	-26.5	-49.0	0.05508	300.0	0.00041373	0.49791337
497.00	-26.9	-48.8	0.05716	300.8	0.00040088	0.49831424
489.00	-27.3	-45.7	0.08435	301.7	0.00057759	0.49889183
481.50	-28.2	-41.9	0.13420	301.9	0.00083629	0.49972812
474.00	-29.1	-39.4	0.17954	302.1	0.00120054	0.50092867
467.00	-30.3	-38.5	0.20280	301.9	0.00136551	0.50229417
460.00	-31.1	-38.8	0.19963	302.2	0.00143725	0.50373142
454.00	-32.2	-39.0	0.19617	301.9	0.00121161	0.50494303
448.00	-33.2	-39.0	0.19879	301.9	0.00120906	0.50615209
441.50	-34.0	-37.8	0.23203	302.1	0.00142875	0.50758083
434.00	-34.8	-36.3	0.27771	302.5	0.00195051	0.50953135
428.00	-35.7	-38.5	0.22129	302.6	0.00152753	0.51105888
422.00	-36.6	-41.0	0.16908	302.7	0.00119500	0.51225388
415.30	-37.4	-43.3	0.13204	303.0	0.00102935	0.51328323

Table 2 (continued)

WASHINGTON,D.C. 2/28/69 1555Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
409.00	-38.0	-45.7	0.10085	303.6	0.00074858	0.51403181
403.00	-39.1	-48.6	0.07215	303.5	0.00052960	0.51456140
396.00	-39.8	-50.4	0.05848	304.1	0.00046656	0.51502797
390.00	-40.6	-53.0	0.04335	304.4	0.00031175	0.51533971
383.00	-41.5	-53.5	0.04101	304.8	0.00030130	0.51564101
377.00	-42.6	-53.5	0.04210	304.7	0.00025442	0.51589544
370.00	-43.6	-53.4	0.04335	305.0	0.00030519	0.51620062
364.00	-44.5	-53.3	0.04453	305.2	0.00026903	0.51646965
358.00	-45.4	-54.0	0.04121	305.5	0.00026249	0.51673213
352.00	-46.2	-55.3	0.03557	305.9	0.00023505	0.51696718
346.00	-47.1	-56.9	0.02931	306.2	0.00019860	0.51716578
340.00	-47.7	-58.1	0.02548	306.8	0.00016771	0.51733348
333.00	-48.5	-59.6	0.02142	307.7	0.00016750	0.51750098
327.50	-48.8	-61.0	0.01799	308.6	0.00011059	0.51761157
322.00	-49.5	-60.8	0.01882	309.1	0.00010329	0.51771486
316.30	-49.9	-61.5	0.01726	310.2	0.00010493	0.51781979
310.00	-50.6	-62.9	0.01457	310.9	0.00010231	0.51792210
305.00	-51.2	-63.3	0.01400	311.6	0.00007287	0.51799498
300.00	-52.2	-63.7	0.01345	311.7	0.00007000	0.51806498
294.50	-52.8	-64.2	0.01270	312.5	0.00007337	0.51813835
289.00	-52.9	-65.0	0.01156	314.0	0.00006808	0.51820643
283.70	-53.1	-66.0	0.01032	315.3	0.00005915	0.51826558
278.00	-53.3	-66.4	0.00985	316.9	0.00005866	0.51832424
273.00	-53.5	-66.0	0.01062	318.2	0.00005223	0.51837647
268.00	-54.4	-64.2	0.01409	318.7	0.00006304	0.51843951
263.00	-54.8	-63.5	0.01578	319.9	0.00007619	0.51851570
258.00	-55.4	-65.0	0.01307	320.7	0.00007359	0.51858929
252.50	-56.0	-67.0	0.00996	321.7	0.00006463	0.51865392
247.00	-56.5	-63.9	0.01587	323.1	0.00007250	0.51872643
242.00	-56.7	-64.2	0.01560	324.7	0.00008030	0.51880673
237.00	-56.5	-67.2	0.01032	327.0	0.00006612	0.51887285
232.00	-55.8	-67.1	0.01074	329.9	0.00005372	0.51892657
226.00	-56.0	-66.8	0.01145	332.1	0.00006794	0.51899450
222.00	-56.9	-67.2	0.01112	332.5	0.00004606	0.51904056
217.00	-56.5	-68.9	0.00887	335.3	0.00005100	0.51909156
212.00	-55.6	-72.0	0.00568	338.9	0.00003712	0.51912869
207.00	-55.2	-73.9	0.00433	341.9	0.00002553	0.51915421
203.00	-55.0	-75.5	0.00346	344.1	0.00001591	0.51917012
198.00	-54.8	-75.9	0.00333	346.9	0.00001733	0.51918745
194.00	-54.4	-76.4	0.00311	349.6	0.00001315	0.51920060
190.00	-53.9	-77.0	0.00291	352.3	0.00001230	0.51921290
185.50	-53.5	-77.4	0.00279	355.4	0.00001308	0.51922598
181.00	-53.1	-77.8	0.00270	358.5	0.00001260	0.51923858
177.00	-52.6	-77.9	0.00270	361.8	0.00001101	0.51924959
173.00	-52.0	-78.1	0.00270	365.1	0.00001101	0.51926060
169.50	-51.4	-78.2	0.00269	368.2	0.00000962	0.51927022
166.00	-51.2	-78.3	0.00272	370.8	0.00000965	0.51927987
162.00	-51.6	-78.6	0.00266	372.7	0.00001096	0.51929083
158.00	-52.2	-78.7	0.00266	374.4	0.00001085	0.51930168
154.70	-51.4	-78.9	0.00262	378.0	0.00000889	0.51931058
151.30	-51.0	-79.1	0.00259	381.0	0.00000904	0.51931962
147.70	-51.4	-79.4	0.00256	383.0	0.00000945	0.51932907
144.00	-51.4	-79.5	0.00256	385.8	0.00000966	0.51933873
140.70	-52.0	-79.7	0.00256	387.4	0.00000862	0.51934735
137.50	-52.6	-79.8	0.00256	388.9	0.00000835	0.51935570

Table 2 (continued)

WASHINGTON,D.C. 2/28/69 1555Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
134.20	-53.3	-80.0	0.00252	390.2	0.00000855	0.51936426
131.00	-53.9	-80.3	0.00249	391.8	0.00000819	0.51937245
128.00	-53.7	-80.5	0.00246	394.8	0.00000758	0.51938002
125.00	-53.7	-80.5	0.00252	397.5	0.00000761	0.51938764
121.70	-54.4	-80.5	0.00258	399.4	0.00000859	0.51939623
118.00	-54.8	-80.4	0.00270	402.2	0.00000998	0.51940620
115.40	-55.0	-80.4	0.00276	404.4	0.00000724	0.51941344
112.50	-55.2	-80.3	0.00287	406.9	0.00000833	0.51942177
109.70	-55.4	-80.3	0.00294	409.5	0.00000829	0.51943006
107.00	-55.6	-80.4	0.00298	412.0	0.00000815	0.51943821
104.00	-55.8	-80.6	0.00299	414.9	0.00000913	0.51944734
101.00	-56.5	-80.6	0.00308	417.2	0.00000928	0.51945662
98.00	-57.1	-80.9	0.00301	419.5	0.00000932	0.51946595
95.10	-57.1	-80.9	0.00307	423.1	0.00000900	0.51947495
92.50	-57.1	-81.2	0.00304	426.5	0.00000810	0.51948304
89.80	-57.1	-81.2	0.00309	430.1	0.00000844	0.51949148
87.40	-57.1	-81.4	0.00309	433.5	0.00000757	0.51949905
85.00	-57.1	-81.5	0.00314	436.9	0.00000763	0.51950668
82.40	-57.1	-81.5	0.00320	440.8	0.00000840	0.51951508
80.00	-56.9	-82.0	0.00304	445.0	0.00000764	0.51952272
77.60	-56.9	-82.3	0.00302	448.9	0.00000742	0.51953014
75.20	-57.1	-82.7	0.00287	452.5	0.00000721	0.51953735
73.00	-56.9	-82.9	0.00288	456.8	0.00000645	0.51954380
70.80	-56.5	-83.1	0.00289	461.7	0.00000647	0.51955027
68.50	-56.2	-83.2	0.00290	466.6	0.00000680	0.51955707
66.00	-56.5	-83.5	0.00289	471.1	0.00000739	0.51956446
64.00	-56.5	-83.5	0.00294	475.3	0.00000595	0.51957041
61.80	-56.5	-83.4	0.00313	480.0	0.00000681	0.51957722
59.60	-56.7	-83.6	0.00311	484.5	0.00000701	0.51958422
57.70	-57.3	-83.8	0.00312	487.6	0.00000605	0.51959027
55.80	-58.0	-84.3	0.00296	490.7	0.00000590	0.51959617
53.80	-58.7	-84.7	0.00286	494.3	0.00000594	0.51960211
52.00	-58.9	-85.2	0.00270	498.6	0.00000511	0.51960722
50.00	-57.3	-84.9	0.00299	507.9	0.00000580	0.51961303
48.40	-55.6	-85.0	0.00304	516.8	0.00000492	0.51961794
46.60	-55.4	-86.9	0.00225	522.9	0.00000486	0.51962280
45.00	-54.8	-85.7	0.00289	529.7	0.00000420	0.51962701
43.30	-54.4	-85.8	0.00296	536.6	0.00000508	0.51963209
41.60	-53.9	-86.2	0.00285	543.8	0.00000504	0.51963713
40.00	-54.4	-86.5	0.00283	548.9	0.00000463	0.51964176
38.30	-54.4	-86.8	0.00277	555.7	0.00000485	0.51964661
36.70	-54.6	-87.1	0.00275	562.0	0.00000450	0.51965111
35.10	-54.8	-87.2	0.00283	568.7	0.00000455	0.51965566
33.50	-54.6	-87.3	0.00291	576.8	0.00000468	0.51966034
32.00	-54.6	-87.7	0.00285	584.4	0.00000441	0.51966475
30.60	-54.8	-88.2	0.00273	591.4	0.00000399	0.51966874
29.20	-54.8	-88.5	0.00272	599.4	0.00000389	0.51967263
27.80	-55.0	-88.9	0.00265	607.3	0.00000384	0.51967647
26.40	-55.0	-88.9	0.00280	616.3	0.00000390	0.51968036
25.00	-55.6	-89.4	0.00270	624.1	0.00000393	0.51968429
23.40	-56.0	-90.1	0.00252	634.8	0.00000426	0.51968856
21.90	-56.2	-90.5	0.00249	646.3	0.00000383	0.51969238
20.60	-56.0	-90.7	0.00259	658.4	0.00000337	0.51969575
19.40	-55.6	-91.1	0.00254	671.1	0.00000314	0.51969889
18.45	-55.0	-92.3	0.00214	682.7	0.00000227	0.51970116

Table 2 (continued)

WASHINGTON,D.C. 2/28/69 1555Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
17.50	-54.4	-92.6	0.00211	695.1	0.00000206	0.51970321
16.75	-53.5	-91.8	0.00259	706.4	0.00000180	0.51970501
16.00	-52.2	-92.1	0.00254	720.3	0.00000196	0.51970697
15.40	-50.6	-92.2	0.00258	733.2	0.00000157	0.51970854
14.75	-49.2	-93.5	0.00211	747.2	0.00000156	0.51971010
14.25	-47.9	-93.2	0.00234	758.8	0.00000113	0.51971123
13.70	-46.9	-92.6	0.00271	770.9	0.00000142	0.51971265
13.25	-45.4	-92.4	0.00294	783.5	0.00000130	0.51971395
12.80	-44.4	-92.2	0.00311	794.8	0.00000139	0.51971533
12.35	-43.9	-92.0	0.00336	804.6	0.00000149	0.51971682
11.90	-43.9	-93.8	0.00247	813.2	0.00000134	0.51971816
11.57	-44.0	-95.2	0.00197	819.2	0.00000075	0.51971891
11.30	-44.2	-95.4	0.00192	824.2	0.00000054	0.51971944
11.03	-44.2	-94.9	0.00219	829.9	0.00000057	0.51972001
10.80	-44.2	-94.9	0.00224	834.9	0.00000052	0.51972053
10.60	-43.9	-94.1	0.00264	840.6	0.00000050	0.51972103
10.40	-43.6	-92.3	0.00379	846.3	0.00000066	0.51972168
10.30	-42.6	-91.2	0.00466	852.2	0.00000043	0.51972211
10.20	-41.5	-90.0	0.00586	858.7	0.00000054	0.51972265
10.10	-42.1	-88.0	0.00849	858.8	0.00000073	0.51972338
10.00	-42.1	-84.8	0.01514	861.2	0.00000121	0.51972459

Table 3

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1030.00					
1024.00	17.42	0.00008	-0.8	270.5	0.02819
1016.00	17.90	0.00019	-1.6	270.3	0.02919
1011.00	16.57	0.00026	-2.1	270.2	0.02715
1004.00	15.57	0.00034	-2.9	269.9	0.02570
980.00	15.61	0.00064	-3.4	271.3	0.02640
960.00	17.55	0.00093	-4.1	272.2	0.03029
933.00	12.06	0.00120	-4.5	274.0	0.02142
913.00	17.69	0.00150	-4.8	275.5	0.03210
894.00	23.75	0.00189	-5.3	276.6	0.04402
880.00	29.63	0.00226	-5.5	277.6	0.05578
868.00	32.43	0.00261	-5.3	278.9	0.06190
858.00	33.96	0.00293	-5.8	279.3	0.06559
845.00	34.98	0.00335	-7.0	279.3	0.06859
832.00	34.60	0.00377	-8.3	279.2	0.06891
819.00	34.11	0.00419	-9.4	279.2	0.06900
807.00	34.48	0.00460	-9.9	279.9	0.07080
795.00	34.95	0.00501	-9.0	282.0	0.07285
780.00	35.92	0.00555	-8.0	284.7	0.07631
767.00	35.92	0.00603	-7.0	287.1	0.07760
753.00	35.30	0.00654	-6.5	289.2	0.07769
740.00	33.92	0.00701	-7.4	289.7	0.07596
727.00	33.17	0.00747	-8.5	289.9	0.07560
715.00	34.04	0.00792	-9.7	290.0	0.07890
703.00	32.58	0.00835	-10.7	290.3	0.07679
691.00	31.29	0.00878	-11.7	290.6	0.07504
679.00	30.84	0.00921	-12.5	291.2	0.07525
664.00	29.81	0.00973	-13.0	292.5	0.07438
650.00	29.81	0.01023	-13.5	293.7	0.07598
637.00	30.60	0.01072	-14.5	294.2	0.07960
625.00	30.24	0.01117	-15.5	294.7	0.08018
612.00	30.15	0.01168	-16.6	295.1	0.08162
600.00	30.58	0.01215	-17.7	295.7	0.08445
590.00	30.48	0.01256	-18.8	295.8	0.08561
579.00	28.39	0.01298	-20.1	295.9	0.08124
569.00	28.47	0.01337	-20.3	297.0	0.08291
559.00	27.98	0.01376	-20.6	298.3	0.08293
548.00	27.36	0.01419	-21.3	299.0	0.08274
538.00	25.88	0.01457	-21.8	300.0	0.07972
524.00	24.37	0.01508	-23.2	300.6	0.07706
511.00	23.37	0.01554	-24.7	301.0	0.07577
497.00	23.37	0.01605	-26.1	301.7	0.07791
485.00	22.92	0.01649	-27.7	301.9	0.07829
473.00	21.62	0.01692	-29.1	302.3	0.07574
462.00	21.55	0.01732	-30.4	302.6	0.07728
451.00	22.44	0.01775	-31.9	302.8	0.08243
441.00	22.36	0.01814	-33.6	302.7	0.08402
430.00	21.46	0.01857	-35.0	303.1	0.08270
420.00	21.90	0.01898	-36.1	303.7	0.08639
411.00	24.13	0.01939	-37.3	304.1	0.09730
402.00	24.58	0.01982	-38.5	304.5	0.10133
392.00	26.06	0.02034	-40.0	304.7	0.11016
382.00	26.53	0.02088	-41.8	304.6	0.11510
373.00	26.53	0.02138	-43.4	304.6	0.11788
364.00	25.15	0.02187	-45.0	304.5	0.11447
355.00	24.64	0.02235	-46.4	304.9	0.11502

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
346.00	26.11	0.02288	-47.2	306.0	0.12504
337.00	26.10	0.02343	-48.1	307.1	0.12831
328.00	25.10	0.02396	-48.8	308.5	0.12682
320.00	23.14	0.02441	-49.7	309.4	0.11982
311.00	24.02	0.02495	-50.6	310.7	0.12798
303.00	25.07	0.02547	-51.6	311.7	0.13712
295.00	33.00	0.02617	-52.6	312.7	0.18534
286.00	38.69	0.02711	-53.3	314.3	0.22419
278.00	46.09	0.02815	-53.5	316.6	0.27472
271.00	52.68	0.02921	-53.7	318.6	0.32214
264.00	61.47	0.03048	-54.4	320.1	0.38580
256.00	59.58	0.03193	-54.6	322.6	0.38566
249.00	50.49	0.03303	-55.0	324.6	0.33601
242.00	45.49	0.03405	-55.2	326.9	0.31151
235.00	48.35	0.03518	-55.6	329.0	0.34090
229.00	55.54	0.03631	-55.8	331.2	0.40191
223.00	60.45	0.03758	-56.2	333.0	0.44918
218.00	61.18	0.03867	-56.7	334.5	0.46502
212.00	61.22	0.04002	-56.2	337.9	0.47853
207.00	64.50	0.04124	-55.4	341.5	0.51633
201.00	75.30	0.04299	-54.4	346.0	0.62077
196.00	83.05	0.04464	-53.1	350.5	0.70213
191.00	92.23	0.04652	-52.9	353.4	0.80016
186.00	95.62	0.04852	-52.8	356.4	0.85183
181.00	101.55	0.05071	-53.1	358.5	0.92970
177.00	106.38	0.05258	-53.5	360.2	0.99591
173.00	109.84	0.05457	-53.7	362.2	1.05201
168.00	117.07	0.05728	-53.5	365.6	1.15471
164.00	127.96	0.05971	-54.4	366.8	1.29287
160.20	136.28	0.06223	-55.0	368.2	1.40957
156.00	139.73	0.06516	-54.4	372.0	1.48421
152.00	136.20	0.06796	-53.3	376.5	1.48471
148.00	126.92	0.07063	-52.8	380.4	1.42101
144.50	117.46	0.07285	-52.6	383.4	1.34698
141.00	112.21	0.07502	-52.6	386.1	1.31870
137.50	117.95	0.07736	-52.6	388.9	1.42135
134.00	125.90	0.07993	-52.8	391.4	1.55680
130.50	135.89	0.08277	-52.8	394.4	1.72541
127.00	152.72	0.08604	-52.9	397.1	1.99263
124.00	163.04	0.08912	-52.9	399.8	2.17867
121.00	162.52	0.09226	-53.1	402.3	2.22558
118.30	165.00	0.09520	-53.5	404.1	2.31107
115.00	164.48	0.09888	-53.7	407.0	2.36993
112.20	171.16	0.10221	-54.2	409.2	2.52768
109.00	182.56	0.10638	-54.6	411.8	2.77520
106.00	197.74	0.11074	-55.2	413.9	3.09113
103.00	206.23	0.11541	-55.2	417.3	3.31778
100.50	206.55	0.11942	-55.2	420.2	3.40546
98.50	207.82	0.12272	-55.4	422.3	3.49602
95.80	213.45	0.12740	-55.6	425.2	3.69200
93.50	205.05	0.13134	-56.2	426.9	3.63392
91.20	202.08	0.13531	-56.5	429.5	3.67165
89.00	193.47	0.13904	-56.9	431.7	3.60207
87.20	183.44	0.14200	-57.1	433.7	3.48578
85.00	173.98	0.14551	-57.1	436.9	3.39168

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
83.00	164.53	0.14860	-57.1	439.9	3.28469
81.00	157.22	0.15163	-57.3	442.5	3.21612
79.10	148.70	0.15442	-56.7	446.9	3.11492
77.10	131.03	0.15707	-56.5	450.6	2.81598
75.40	116.59	0.15912	-56.7	453.1	2.56211
73.70	109.33	0.16109	-56.9	455.6	2.45810
71.80	105.59	0.16326	-57.1	458.5	2.43686
70.00	106.84	0.16541	-57.1	461.8	2.52902
68.30	109.23	0.16753	-57.1	465.1	2.64994
66.60	116.13	0.16984	-57.1	468.5	2.88938
65.00	124.66	0.17223	-56.2	473.6	3.17789
63.20	129.35	0.17510	-55.2	479.8	3.39123
61.80	128.93	0.17738	-55.2	482.9	3.45679
60.20	139.01	0.18026	-55.4	486.0	3.82635
58.70	154.57	0.18334	-56.5	487.1	4.36316
57.20	163.81	0.18669	-57.6	488.3	4.74547
56.00	173.68	0.18959	-57.8	490.7	5.13906
54.70	170.79	0.19276	-58.5	492.5	5.17359
53.30	161.56	0.19607	-58.7	495.6	5.02267
52.00	152.23	0.19904	-58.9	498.6	4.85101
50.80	144.97	0.20171	-58.0	504.1	4.72872
49.50	147.52	0.20473	-56.2	512.0	4.93830
48.30	152.58	0.20768	-55.4	517.6	5.23444
47.20	154.69	0.21050	-55.6	520.5	5.43039
46.20	156.79	0.21315	-55.6	523.7	5.62348
45.00	158.48	0.21644	-55.6	527.7	5.83550
43.90	157.60	0.21952	-55.0	532.9	5.94843
43.00	157.51	0.22210	-54.4	537.6	6.06968
42.00	160.12	0.22507	-53.3	543.8	6.31721
41.00	164.01	0.22819	-53.7	546.5	6.62847
40.10	165.24	0.23109	-54.6	547.9	6.82792
39.00	164.43	0.23470	-55.2	550.7	6.98625
38.10	163.98	0.23772	-55.6	553.4	7.13165
37.20	163.56	0.24081	-55.2	558.2	7.28552
36.20	163.17	0.24432	-55.0	563.1	7.46890
35.30	162.78	0.24756	-54.6	568.3	7.64089
34.40	161.20	0.25084	-54.4	573.0	7.76484
33.60	160.36	0.25382	-53.3	579.6	7.90800
32.80	159.95	0.25686	-52.8	585.1	8.08049
32.00	158.66	0.25996	-53.1	588.2	8.21579
31.20	153.16	0.26302	-53.5	591.4	8.13441
30.40	153.16	0.26616	-54.2	594.2	8.34847
29.75	151.90	0.26875	-54.4	597.3	8.46060
29.00	153.25	0.27184	-54.4	601.7	8.75621
28.30	152.23	0.27478	-54.4	605.9	8.91349
27.60	150.20	0.27775	-53.7	611.9	9.01769
27.00	149.37	0.28034	-53.3	616.9	9.16706
26.30	147.35	0.28340	-53.5	621.0	9.28360
25.65	144.38	0.28625	-53.7	624.9	9.32689
25.00	141.58	0.28912	-53.9	628.9	9.38381
24.40	137.35	0.29175	-54.4	632.1	9.32770
23.90	133.92	0.29394	-54.6	635.3	9.28463
23.20	129.75	0.29699	-54.8	640.1	9.26726
22.60	126.07	0.29960	-55.0	644.3	9.24338
22.00	123.33	0.30222	-55.0	649.2	9.28911

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
21.40	119.45	0.30482	-55.0	654.4	9.24936
20.75	115.80	0.30765	-55.0	660.2	9.24728
20.10	113.00	0.31048	-55.2	665.6	9.31527
19.60	110.27	0.31268	-55.4	669.7	9.32240
19.10	107.37	0.31487	-54.8	676.6	9.31466
18.60	105.37	0.31708	-54.2	683.7	9.38699
18.10	102.26	0.31928	-53.7	690.3	9.36142
17.60	100.14	0.32149	-54.4	693.9	9.42761
17.10	99.99	0.32377	-54.4	699.7	9.68868
16.66	99.83	0.32582	-53.7	706.9	9.92950
16.20	97.80	0.32798	-53.5	713.2	10.00335
15.87	96.96	0.32956	-52.8	720.0	10.12410
15.50	94.93	0.33133	-51.8	728.1	10.14799
15.15	90.88	0.33296	-51.8	732.9	9.93980
14.85	88.10	0.33436	-51.6	737.7	9.83044
14.45	86.99	0.33623	-50.8	746.0	9.97532
14.10	85.79	0.33789	-49.9	754.4	10.08185
13.80	85.60	0.33935	-49.5	760.3	10.27794
13.50	85.40	0.34083	-48.8	767.6	10.48262
13.20	85.21	0.34234	-47.7	776.2	10.69646
12.95	83.75	0.34360	-46.9	783.4	10.71635
12.70	84.64	0.34491	-46.0	790.8	11.04326
12.50	83.38	0.34595	-45.7	795.5	11.05245
12.25	81.69	0.34725	-45.4	801.3	11.05012
12.00	81.32	0.34858	-45.4	806.0	11.22839
11.80	80.89	0.34965	-45.2	810.5	11.35952
11.60	81.15	0.35075	-44.9	815.7	11.59233
11.40	81.20	0.35186	-44.5	820.9	11.80227
11.20	81.03	0.35299	-44.4	825.7	11.98876
11.00	80.40	0.35414	-44.2	830.5	12.11090
10.85	79.10	0.35500	-44.0	834.4	12.08044
10.63	78.22	0.35626	-43.7	840.5	12.19259
10.45	77.57	0.35731	-43.6	845.2	12.30009
10.32	77.11	0.35807	-42.9	850.6	12.38067
10.20	76.47	0.35878	-42.6	854.6	12.42201
10.10	75.58	0.35936	-42.3	858.2	12.40031
10.00	75.09	0.35995	-42.1	861.2	12.44275

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
880.00					
876.00	34.26	0.00012	-5.0	278.5	0.06481
868.00	33.50	0.00037	-5.7	278.5	0.06394
856.00	33.48	0.00073	-6.2	279.1	0.06481
843.00	33.48	0.00114	-6.5	280.0	0.06580
830.00	32.62	0.00154	-6.5	281.3	0.06513
818.00	32.52	0.00191	-6.1	282.9	0.06587
806.00	32.62	0.00229	-5.2	285.0	0.06707
796.00	32.60	0.00261	-5.5	285.6	0.06787
788.00	33.57	0.00288	-6.2	285.8	0.07058
780.00	33.67	0.00315	-6.5	286.3	0.07153
767.00	33.22	0.00359	-6.8	287.3	0.07178
755.00	32.79	0.00400	-7.4	288.0	0.07197
745.00	32.45	0.00434	-7.8	288.7	0.07217
735.00	32.45	0.00469	-8.1	289.4	0.07316
725.30	32.09	0.00503	-8.7	289.9	0.07331
716.00	31.54	0.00535	-8.9	290.7	0.07299
706.00	32.07	0.00570	-9.4	291.3	0.07527
698.00	32.07	0.00599	-10.1	291.6	0.07613
689.00	31.74	0.00632	-10.3	292.4	0.07633
680.00	30.86	0.00664	-11.1	292.6	0.07520
671.50	29.28	0.00693	-11.7	293.0	0.07225
663.00	29.25	0.00722	-12.5	293.2	0.07309
655.00	28.92	0.00750	-13.1	293.5	0.07316
647.00	28.92	0.00778	-13.9	293.6	0.07407
638.00	29.47	0.00811	-14.5	294.1	0.07655
629.00	29.87	0.00844	-15.3	294.4	0.07870
621.00	28.75	0.00873	-15.9	294.8	0.07671
612.00	27.17	0.00905	-16.6	295.1	0.07355
604.00	27.41	0.00933	-17.4	295.4	0.07519
596.00	27.38	0.00962	-18.2	295.6	0.07612
588.00	27.36	0.00991	-18.9	295.9	0.07711
580.00	28.12	0.01022	-19.7	296.2	0.08034
573.00	28.69	0.01049	-20.7	296.0	0.08296
566.00	28.77	0.01077	-21.5	296.1	0.08423
558.00	29.26	0.01110	-21.8	296.9	0.08689
550.00	30.15	0.01144	-22.3	297.5	0.09084
542.00	30.15	0.01179	-23.1	297.9	0.09218
534.00	30.02	0.01214	-23.9	298.2	0.09315
526.50	29.93	0.01248	-24.5	298.6	0.09419
519.00	30.42	0.01282	-25.3	298.9	0.09713
511.50	30.42	0.01317	-25.8	299.6	0.09856
504.00	29.61	0.01352	-26.5	300.0	0.09736
497.00	28.08	0.01383	-26.9	300.8	0.09361
489.00	26.33	0.01416	-27.3	301.7	0.08922
481.50	24.56	0.01446	-28.2	301.9	0.08452
474.00	23.59	0.01476	-29.1	302.1	0.08248
467.00	23.59	0.01503	-30.3	301.9	0.08371
460.00	23.18	0.01531	-31.1	302.2	0.08348
454.00	23.58	0.01555	-32.2	301.9	0.08607
448.00	23.25	0.01580	-33.2	301.9	0.08599
441.50	22.44	0.01606	-34.0	302.1	0.08420
434.00	21.62	0.01635	-34.8	302.5	0.08256
428.00	21.96	0.01659	-35.7	302.6	0.08502
422.00	22.78	0.01685	-36.6	302.7	0.08946
415.30	23.26	0.01714	-37.4	303.0	0.09281

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
409.00	23.26	0.01742	-38.0	303.6	0.09424
403.00	22.93	0.01769	-39.1	303.5	0.09427
396.00	22.52	0.01800	-39.8	304.1	0.09423
390.00	21.71	0.01826	-40.6	304.4	0.09226
383.00	21.85	0.01857	-41.5	304.8	0.09454
377.00	21.92	0.01885	-42.6	304.7	0.09636
370.00	21.99	0.01917	-43.6	305.0	0.09849
364.00	23.26	0.01947	-44.5	305.2	0.10586
358.00	24.76	0.01980	-45.4	305.5	0.11461
352.00	26.21	0.02015	-46.2	305.9	0.12337
346.00	28.78	0.02054	-47.1	306.2	0.13782
340.00	29.28	0.02094	-47.7	306.8	0.14272
333.00	28.14	0.02140	-48.5	307.7	0.14000
327.50	26.16	0.02175	-48.8	308.6	0.13235
322.00	26.98	0.02211	-49.5	309.1	0.13885
316.80	29.72	0.02249	-49.9	310.1	0.15544
310.00	31.39	0.02303	-50.6	310.9	0.16777
305.00	34.19	0.02347	-51.2	311.6	0.18575
300.00	38.89	0.02398	-52.2	311.7	0.21482
294.50	43.94	0.02462	-52.8	312.5	0.24725
289.00	51.73	0.02539	-52.9	314.0	0.29658
283.70	52.85	0.02616	-53.5	314.8	0.30866
278.00	49.07	0.02695	-53.3	316.9	0.29245
273.00	42.15	0.02755	-53.5	318.2	0.25583
268.00	35.61	0.02807	-54.4	318.7	0.22016
263.00	39.67	0.02866	-54.8	319.9	0.24996
258.00	48.16	0.02939	-55.4	320.7	0.30932
252.50	48.03	0.03021	-56.0	321.7	0.31519
247.00	49.91	0.03107	-56.5	323.1	0.33484
242.00	57.08	0.03200	-56.7	324.7	0.39086
237.00	61.08	0.03300	-56.5	327.0	0.42705
232.00	66.22	0.03412	-55.8	329.9	0.47298
226.00	70.42	0.03558	-56.0	332.1	0.51628
222.00	73.89	0.03662	-56.9	332.5	0.55150
217.00	77.34	0.03801	-56.5	335.3	0.59056
212.00	86.31	0.03960	-55.6	338.9	0.67462
207.00	97.76	0.04144	-55.2	341.9	0.78258
203.00	101.49	0.04300	-55.0	344.1	0.82844
198.00	104.92	0.04507	-54.8	346.9	0.87801
194.00	113.14	0.04689	-54.4	349.6	0.96638
190.00	120.76	0.04888	-53.9	352.3	1.05315
185.50	126.03	0.05126	-53.5	355.4	1.12582
181.00	128.58	0.05376	-53.1	358.5	1.17712
177.00	130.37	0.05606	-52.6	361.8	1.22046
173.00	132.97	0.05846	-52.0	365.1	1.27359
169.50	135.18	0.06064	-51.4	368.2	1.32145
166.00	137.32	0.06290	-51.2	370.8	1.37073
162.00	136.88	0.06554	-51.6	372.7	1.40011
158.00	132.92	0.06816	-52.2	374.4	1.39394
154.70	129.05	0.07031	-51.4	378.0	1.38226
151.30	129.12	0.07258	-51.0	381.0	1.41410
147.70	134.42	0.07513	-51.4	383.0	1.50796
144.00	138.86	0.07791	-51.4	385.8	1.59784
140.70	143.65	0.08054	-52.0	387.4	1.69178
137.50	147.68	0.08322	-52.6	388.9	1.77966

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
134.20	148.56	0.08607	-53.3	390.2	1.83425
131.00	153.84	0.08901	-53.9	391.8	1.94584
128.00	164.87	0.09202	-53.7	394.8	2.13429
125.00	179.88	0.09539	-53.7	397.5	2.38450
121.70	181.30	0.09922	-54.4	399.4	2.46849
118.00	182.08	0.10366	-54.8	402.2	2.55684
115.40	186.01	0.10693	-55.0	404.4	2.67092
112.50	201.12	0.11097	-55.2	406.9	2.96226
109.70	218.56	0.11532	-55.4	409.5	3.30131
107.00	226.61	0.11978	-55.6	412.0	3.50921
104.00	227.05	0.12488	-55.8	414.9	3.61745
101.00	221.98	0.13001	-56.5	417.2	3.64180
98.00	210.62	0.13502	-57.1	419.5	3.56120
95.10	199.43	0.13975	-57.1	423.1	3.47476
92.50	180.93	0.14371	-57.1	426.5	3.24107
89.80	165.22	0.14758	-57.1	430.1	3.04858
87.40	152.39	0.15084	-57.1	433.5	2.88907
85.00	144.45	0.15401	-57.1	436.9	2.81602
82.40	134.28	0.15730	-57.1	440.8	2.70023
80.00	119.15	0.16009	-56.9	445.0	2.46798
77.60	112.09	0.16278	-56.9	448.9	2.39349
75.20	113.86	0.16561	-57.1	452.5	2.50875
73.00	124.86	0.16853	-56.9	456.8	2.83409
70.80	137.51	0.17185	-56.5	461.7	3.21816
68.50	145.99	0.17566	-56.2	466.6	3.53151
66.00	151.35	0.18010	-56.5	471.1	3.79985
64.00	156.75	0.18391	-56.5	475.3	4.05843
61.80	167.95	0.18855	-56.5	480.0	4.50325
59.60	171.54	0.19346	-56.7	484.5	4.76919
57.70	164.94	0.19768	-57.3	487.6	4.73655
55.80	161.38	0.20195	-58.0	490.7	4.79210
53.80	155.18	0.20642	-58.7	494.3	4.77948
52.00	156.51	0.21062	-58.9	498.6	4.98722
50.00	163.24	0.21568	-57.3	507.9	5.40971
48.40	166.78	0.21996	-55.6	516.8	5.70978
46.60	171.25	0.22508	-55.4	522.9	6.08931
45.00	174.51	0.22990	-54.8	529.7	6.42590
43.30	177.57	0.23530	-54.4	536.6	6.79512
41.60	173.62	0.24079	-53.9	543.8	6.91548
40.00	170.56	0.24607	-54.4	548.9	7.06533
38.30	166.56	0.25178	-54.4	555.7	7.20586
36.70	163.45	0.25729	-54.6	562.0	7.37954
35.10	160.32	0.26293	-54.8	568.7	7.56849
33.50	158.64	0.26877	-54.6	576.8	7.84678
32.00	156.42	0.27443	-54.6	584.4	8.09979
30.60	153.41	0.27985	-54.8	591.4	8.30705
29.20	149.41	0.28537	-54.8	599.4	8.47874
27.80	142.32	0.29090	-55.0	607.3	8.48261
26.40	134.54	0.29638	-55.0	616.3	8.44451
25.00	126.14	0.30181	-55.6	624.1	8.36064
23.40	121.23	0.30814	-56.0	634.8	8.58489
21.90	114.82	0.31415	-56.2	646.3	8.68773
20.60	109.39	0.31943	-56.0	658.4	8.79863
19.40	108.52	0.32458	-55.6	671.1	9.26918
18.45	107.74	0.32885	-55.0	682.7	9.67587

Table 3 (continued)

WASHINGTON,D.C. 2/28/69 1555Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
17.50	105.36	0.33324	-54.4	695.1	9.97571
16.75	102.93	0.33680	-53.5	706.4	10.18277
16.00	99.70	0.34041	-52.2	720.3	10.32503
15.40	97.05	0.34334	-50.6	733.2	10.44237
14.75	96.30	0.34662	-49.2	747.2	10.81849
14.25	92.68	0.34914	-47.9	758.8	10.77709
13.70	90.08	0.35194	-46.9	770.9	10.89484
13.25	88.30	0.35427	-45.4	783.5	11.04308
12.80	85.37	0.35660	-44.4	794.8	11.05120
12.35	81.95	0.35891	-43.9	804.6	10.99532
11.90	80.62	0.36128	-43.9	813.2	11.22633
11.57	78.44	0.36302	-44.0	819.2	11.23335
11.30	76.57	0.36445	-44.2	824.2	11.22870
11.03	75.64	0.36589	-44.2	829.9	11.36370
10.80	75.53	0.36715	-44.2	834.9	11.58869
10.60	75.11	0.36826	-43.9	840.6	11.74063
10.40	74.91	0.36938	-43.6	846.3	11.93476
10.30	74.48	0.36995	-42.6	852.2	11.98218
10.20	74.71	0.37053	-41.5	858.7	12.13669
10.10	73.86	0.37110	-42.1	858.8	12.11764
10.00	74.75	0.37169	-42.1	861.2	12.38638

Table 4

WASHINGTON,D.C. 4/21/69 1608Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1000.00	18.8	-1.3	3.44233	291.9		
989.00	15.9	-1.9	3.31132	290.0	0.03790317	0.03790317
973.00	13.3	-1.9	3.36607	288.7	0.05450935	0.09241252
960.00	10.5	-3.0	3.09736	287.0	0.04286966	0.13528218
944.00	8.1	-3.6	3.00583	286.0	0.04982193	0.18510411
930.00	6.2	-3.6	3.05130	285.3	0.04326524	0.22836935
917.00	5.1	-5.1	2.70327	285.2	0.03816809	0.26653743
900.00	4.2	-8.0	2.14702	285.9	0.04206881	0.30860625
888.00	3.7	-18.0	0.87475	286.4	0.01850059	0.32710683
874.00	3.7	-17.1	0.96597	287.7	0.01314796	0.34025479
860.00	4.2	-22.0	0.61712	289.6	0.01130777	0.35156257
846.00	4.2	-9.3	2.03544	291.0	0.01894689	0.37050946
832.00	3.4	-8.9	2.14971	291.5	0.02989393	0.40040339
819.00	2.6	-9.7	2.02581	291.9	0.02769472	0.42809811
806.00	2.0	-9.3	2.13681	292.7	0.02760916	0.45570727
792.00	1.5	-12.1	1.69405	293.5	0.02736326	0.48307053
779.00	1.5	-18.6	0.94483	294.9	0.01750280	0.50057333
765.00	1.3	-25.8	0.47646	296.3	0.01015212	0.51072545
752.00	1.0	-25.8	0.48471	297.5	0.00637512	0.51710057
740.00	0.8	-21.5	0.75241	298.5	0.00757420	0.52467477
727.00	0.1	-19.9	0.88861	299.3	0.01088434	0.53555912
715.00	-0.7	-20.5	0.85908	299.8	0.01070016	0.54625928
703.00	-1.4	-22.5	0.72047	300.6	0.00967073	0.55593000
690.00	-2.2	-25.4	0.55080	301.3	0.00843188	0.56436188
678.00	-3.0	-19.9	0.95293	301.9	0.00920650	0.57356838
665.00	-3.8	-16.2	1.38440	302.7	0.01550269	0.58907107
653.00	-4.8	-21.5	0.85279	303.1	0.01369708	0.60276814
642.00	-5.7	-22.0	0.82695	303.5	0.00942714	0.61219528
630.00	-6.6	-22.7	0.78564	304.1	0.00987299	0.62206827
618.00	-7.7	-23.2	0.76507	304.6	0.00949411	0.63156239
606.00	-8.6	-23.8	0.72946	305.3	0.00915017	0.64071255
594.00	-9.6	-25.6	0.62665	305.9	0.00830272	0.64901527
580.00	-10.8	-29.6	0.42673	306.5	0.00752413	0.65653940
571.00	-11.6	-32.4	0.32288	307.0	0.00344209	0.65998149
563.00	-12.5	-31.9	0.34427	307.2	0.00272307	0.66270456
556.00	-13.4	-29.6	0.44516	307.2	0.00281940	0.66552396
547.50	-14.1	-26.6	0.61373	307.7	0.00459213	0.67011610
539.00	-15.0	-24.1	0.80234	308.0	0.00614114	0.67625723
531.00	-15.9	-24.1	0.81445	308.3	0.00659914	0.68285638
523.00	-16.7	-26.4	0.65562	308.6	0.00600028	0.68885665
515.50	-17.6	-28.7	0.52655	308.8	0.00452362	0.69338027
508.00	-18.5	-30.9	0.42274	309.0	0.00363249	0.69701276
500.00	-19.2	-31.6	0.40100	309.5	0.00336219	0.70037495
493.00	-20.1	-31.4	0.41368	309.7	0.00290958	0.70328453
485.50	-21.0	-46.0	0.08184	310.0	0.00189613	0.70518066
478.00	-21.9	-46.7	0.07688	310.3	0.00060735	0.70578801
470.50	-22.8	-46.8	0.07640	310.6	0.00058654	0.70637455
463.00	-23.5	-47.0	0.07595	311.1	0.00058297	0.70695752
456.00	-24.5	-47.6	0.07222	311.1	0.00052918	0.70748670
449.00	-25.3	-48.9	0.06246	311.6	0.00048103	0.70796773
442.00	-26.1	-48.9	0.06345	312.0	0.00044970	0.70841743
435.00	-26.7	-47.3	0.07822	312.6	0.00050599	0.70892342
428.00	-27.8	-36.8	0.26727	312.7	0.00123392	0.71015734
421.00	-28.5	-34.3	0.35560	313.2	0.00222457	0.71238191
414.00	-29.5	-34.7	0.34526	313.5	0.00250307	0.71488498

Table 4 (continued)

WASHINGTON,D.C. 4/21/69 1608Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
407.00	-30.3	-34.5	0.36218	314.0	0.00252657	0.71741155
401.50	-30.9	-34.9	0.35061	314.4	0.00200018	0.71941173
394.00	-31.6	-38.1	0.25212	315.2	0.00230633	0.72171806
387.50	-32.1	-39.7	0.21215	316.0	0.00153966	0.72325771
381.00	-32.9	-42.8	0.15146	316.5	0.00120585	0.72446357
374.00	-33.5	-45.0	0.12040	317.4	0.00097092	0.72543449
368.00	-34.3	-47.7	0.08853	317.8	0.00063958	0.72607407
361.50	-35.1	-49.3	0.07361	318.3	0.00053770	0.72661177
355.00	-36.0	-49.7	0.07188	318.8	0.00048249	0.72709427
349.00	-36.8	-51.9	0.05549	319.3	0.00038993	0.72748419
343.00	-37.7	-54.1	0.04241	319.7	0.00029969	0.72778388
337.00	-38.9	-55.5	0.03628	319.7	0.00024088	0.72802476
330.00	-39.9	-55.9	0.03532	320.2	0.00025571	0.72828047
324.50	-41.1	-56.2	0.03425	320.1	0.00019521	0.72847568
319.00	-42.2	-56.2	0.03484	320.2	0.00019386	0.72866954
313.00	-43.4	-55.9	0.03688	320.2	0.00021956	0.72888910
307.00	-44.7	-54.5	0.04514	320.2	0.00025108	0.72914018
301.00	-45.8	-54.7	0.04472	320.4	0.00027507	0.72941525
295.00	-46.8	-55.3	0.04266	320.8	0.00026747	0.72968272
289.50	-48.0	-56.4	0.03731	320.8	0.00022439	0.72990711
284.00	-48.9	-56.3	0.03876	321.3	0.00021346	0.73012057
278.00	-50.0	-57.4	0.03436	321.7	0.00022382	0.73034439
272.50	-51.1	-57.4	0.03505	322.0	0.00019476	0.73053915
267.00	-51.8	-57.8	0.03381	322.8	0.00019322	0.73073237
262.00	-53.0	-58.1	0.03318	322.9	0.00017089	0.73090325
257.00	-53.9	-58.2	0.03320	323.2	0.00016934	0.73107259
251.00	-54.9	-59.8	0.02742	323.9	0.00018556	0.73125815
246.00	-56.0	-61.3	0.02302	324.2	0.00012866	0.73138682
241.00	-57.0	-61.2	0.02371	324.5	0.00011921	0.73150603
236.00	-58.1	-61.7	0.02269	324.8	0.00011838	0.73162441
231.00	-59.3	-62.5	0.02074	325.1	0.00011079	0.73173521
226.00	-60.0	-62.5	0.02120	326.1	0.00010698	0.73184219
221.00	-61.2	-62.5	0.02148	326.3	0.00010886	0.73195105
216.50	-62.2	-62.6	0.02172	326.7	0.00009917	0.73205022
212.00	-62.4	-62.9	0.02137	328.3	0.00009893	0.73214915
207.00	-62.4	-63.9	0.01903	330.5	0.00010306	0.73225222
202.00	-62.4	-64.4	0.01809	332.9	0.00009470	0.73234692
197.00	-62.2	-65.3	0.01626	335.6	0.00008764	0.73243456
193.00	-61.7	-67.0	0.01309	338.4	0.00005989	0.73249445
188.50	-61.7	-67.6	0.01228	340.7	0.00005825	0.73255270
184.00	-61.9	-68.9	0.01046	342.7	0.00005221	0.73260491
179.50	-62.2	-69.5	0.00980	344.7	0.00004651	0.73265142
175.00	-61.2	-71.2	0.00781	348.8	0.00004044	0.73269187
171.50	-60.2	-73.3	0.00575	352.4	0.00002422	0.73271609
167.00	-59.3	-74.2	0.00513	356.7	0.00002497	0.73274106
163.00	-58.4	-74.3	0.00519	360.7	0.00002106	0.73276212
159.00	-57.7	-75.2	0.00465	364.4	0.00002009	0.73278222
156.00	-57.5	-76.1	0.00408	366.7	0.00001337	0.73279559
152.00	-57.3	-77.3	0.00346	369.8	0.00001540	0.73281099
147.50	-57.0	-78.4	0.00300	373.4	0.00001483	0.73282582
143.00	-55.2	-78.9	0.00283	380.0	0.00001338	0.73283920
139.50	-54.1	-79.2	0.00279	384.5	0.00001003	0.73284923
136.00	-54.1	-79.7	0.00264	387.3	0.00000970	0.73285893
132.50	-54.1	-80.2	0.00250	390.2	0.00000919	0.73286812
129.00	-54.7	-80.2	0.00257	392.1	0.00000906	0.73287718

Table 4 (continued)

WASHINGTON,D.C. 4/21/69 1608Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
126.00	-55.2	-80.1	0.00267	394.0	0.00000802	0.73288520
122.50	-55.4	-80.1	0.00274	396.8	0.00000967	0.73289487
119.30	-55.6	-80.2	0.00278	399.4	0.00000902	0.73290389
116.00	-56.0	-80.4	0.00275	401.9	0.00000930	0.73291319
113.00	-56.2	-80.5	0.00278	404.5	0.00000846	0.73292165
109.50	-55.2	-80.4	0.00291	410.1	0.00001016	0.73293181
106.40	-54.3	-80.5	0.00295	415.0	0.00000927	0.73294107
103.50	-54.7	-80.7	0.00291	417.6	0.00000868	0.73294975
100.50	-54.9	-82.2	0.00235	420.7	0.00000806	0.73295781
97.50	-55.8	-82.3	0.00239	422.8	0.00000725	0.73296506
94.80	-56.8	-82.2	0.00249	424.1	0.00000672	0.73297178
92.10	-57.0	-82.2	0.00257	427.2	0.00000697	0.73297875
89.40	-56.2	-82.1	0.00268	432.5	0.00000723	0.73298598
86.80	-55.8	-81.8	0.00289	437.0	0.00000739	0.73299337
84.10	-55.6	-82.0	0.00289	441.4	0.00000796	0.73300133
81.70	-56.2	-82.1	0.00294	443.8	0.00000714	0.73300847
79.00	-57.0	-82.2	0.00299	446.3	0.00000816	0.73301663
76.70	-57.3	-82.3	0.00304	449.6	0.00000707	0.73302370
74.10	-57.5	-82.4	0.00310	453.6	0.00000813	0.73303183
71.50	-57.7	-82.5	0.00316	457.8	0.00000830	0.73304013
69.20	-57.7	-82.5	0.00322	462.1	0.00000748	0.73304762
66.90	-57.7	-82.6	0.00328	466.6	0.00000762	0.73305524
64.60	-57.7	-82.8	0.00329	471.3	0.00000771	0.73306295
62.30	-57.7	-83.0	0.00331	476.2	0.00000775	0.73307070
60.00	-57.5	-83.1	0.00339	481.8	0.00000786	0.73307856
58.00	-57.5	-83.1	0.00350	486.5	0.00000703	0.73308560
56.00	-57.3	-83.4	0.00346	491.9	0.00000711	0.73309271
54.00	-57.0	-83.5	0.00348	497.6	0.00000709	0.73309979
52.00	-56.4	-83.6	0.00356	504.5	0.00000718	0.73310698
50.00	-56.2	-83.8	0.00359	510.6	0.00000729	0.73311427
48.10	-56.2	-84.0	0.00361	516.3	0.00000698	0.73312124
46.30	-57.0	-84.4	0.00351	519.9	0.00000654	0.73312778
44.50	-57.5	-84.7	0.00348	524.8	0.00000642	0.73313421
42.80	-57.0	-85.0	0.00344	531.7	0.00000600	0.73314021
41.00	-56.0	-85.4	0.00336	540.9	0.00000624	0.73314645
39.30	-55.2	-85.7	0.00332	549.6	0.00000579	0.73315224
37.50	-54.3	-85.8	0.00342	559.1	0.00000619	0.73315844
35.80	-53.9	-85.9	0.00352	567.6	0.00000602	0.73316446
34.10	-53.4	-86.0	0.00363	577.1	0.00000621	0.73317066
32.50	-53.0	-86.5	0.00348	586.1	0.00000581	0.73317647
30.90	-53.0	-86.8	0.00347	594.6	0.00000567	0.73318215
29.40	-52.8	-87.4	0.00325	603.7	0.00000514	0.73318729
27.80	-52.6	-87.6	0.00331	613.9	0.00000536	0.73319265
26.30	-52.2	-88.1	0.00323	624.8	0.00000501	0.73319765
24.85	-52.0	-88.9	0.00297	635.6	0.00000459	0.73320224
23.30	-51.8	-89.6	0.00278	647.9	0.00000455	0.73320679
22.20	-51.6	-89.8	0.00280	657.5	0.00000313	0.73320992
21.00	-51.4	-90.1	0.00283	668.6	0.00000344	0.73321336
19.80	-51.1	-90.3	0.00287	681.1	0.00000349	0.73321685
18.70	-50.3	-90.4	0.00297	694.6	0.00000327	0.73322013
17.90	-50.0	-91.1	0.00276	704.5	0.00000234	0.73322246
17.10	-49.8	-91.7	0.00256	714.3	0.00000217	0.73322463
16.30	-49.3	-92.3	0.00242	725.9	0.00000203	0.73322666
15.60	-49.1	-92.8	0.00228	735.6	0.00000168	0.73322834
14.95	-48.5	-93.3	0.00219	746.4	0.00000148	0.73322983

Table 4 (continued)

WASHINGTON,D.C. 4/21/69 1608Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
14.30	-48.4	-93.7	0.00211	756.5	0.00000143	0.73323125
13.80	-48.0	-94.3	0.00195	765.4	0.00000104	0.73323229
13.20	-48.0	-95.1	0.00175	775.2	0.00000113	0.73323342
12.75	-47.9	-95.7	0.00160	783.5	0.00000077	0.73323419
12.20	-47.9	-95.7	0.00167	793.4	0.00000092	0.73323511
11.75	-47.7	-95.4	0.00185	802.6	0.00000081	0.73323591

Table 5

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1000.00					
989.00	40.61	0.00035	16.1	290.1	0.06804
973.00	40.61	0.00088	13.3	288.7	0.06915
960.00	40.61	0.00131	10.5	287.0	0.07009
944.00	38.60	0.00182	8.1	285.9	0.06776
930.00	40.27	0.00230	6.2	285.2	0.07176
916.00	41.84	0.00280	5.0	285.2	0.07568
900.00	43.03	0.00340	4.2	285.8	0.07922
888.00	44.95	0.00387	3.6	286.3	0.08387
874.00	45.74	0.00445	3.6	287.6	0.08671
860.00	45.09	0.00502	4.2	289.5	0.08689
846.00	43.58	0.00559	4.2	290.9	0.08535
832.00	42.40	0.00614	3.3	291.4	0.08444
819.00	40.96	0.00665	2.5	291.8	0.08288
806.00	40.18	0.00716	1.9	292.6	0.08259
792.00	39.17	0.00770	1.4	293.5	0.08195
779.00	38.58	0.00821	1.4	294.8	0.08206
765.00	37.68	0.00875	1.2	296.2	0.08161
752.00	37.57	0.00926	1.0	297.4	0.08279
740.00	35.45	0.00971	0.7	298.5	0.07937
740.00	35.45	0.00971	0.7	298.5	0.07937
727.00	33.58	0.01018	0.0	299.2	0.07654
715.00	31.81	0.01059	-0.8	299.8	0.07371
703.00	30.16	0.01100	-1.5	300.5	0.07109
690.00	29.75	0.01143	-2.3	301.2	0.07144
678.00	29.77	0.01185	-3.1	301.8	0.07275
665.00	28.83	0.01229	-3.9	302.6	0.07185
653.00	26.27	0.01267	-4.9	303.0	0.06666
642.00	26.19	0.01302	-5.8	303.4	0.06760
630.00	25.25	0.01339	-6.7	304.0	0.06641
618.00	25.64	0.01378	-7.7	304.5	0.06875
606.00	25.72	0.01418	-8.6	305.2	0.07033
594.00	25.80	0.01459	-9.7	305.8	0.07197
582.00	25.88	0.01501	-10.5	306.5	0.07368
572.00	26.27	0.01536	-11.7	306.7	0.07610
561.00	25.40	0.01575	-12.7	307.2	0.07503
550.00	24.93	0.01614	-13.7	307.8	0.07510
540.00	24.38	0.01650	-14.7	308.2	0.07481
529.00	24.78	0.01690	-15.8	308.7	0.07761
519.00	23.87	0.01726	-16.1	310.1	0.07620
507.00	23.43	0.01769	-16.6	311.5	0.07659
495.00	23.43	0.01814	-17.4	312.6	0.07844
486.00	23.50	0.01848	-18.4	313.0	0.08012
475.00	22.70	0.01889	-19.7	313.5	0.07918
466.00	22.24	0.01922	-21.1	313.5	0.07907
455.00	22.16	0.01964	-22.3	314.1	0.08071
446.00	22.22	0.01999	-23.7	314.2	0.08257
436.00	21.70	0.02038	-25.1	314.4	0.08248
428.00	20.12	0.02067	-26.4	314.5	0.07791
419.00	20.11	0.02101	-27.8	314.5	0.07953
407.00	19.58	0.02146	-29.3	315.3	0.07971
398.00	19.57	0.02181	-30.5	315.8	0.08146
388.50	20.54	0.02220	-31.7	316.4	0.08759
380.00	21.56	0.02257	-32.7	317.0	0.09401
370.50	22.08	0.02301	-33.5	318.2	0.09875
361.00	21.63	0.02346	-34.8	318.9	0.09930

Table 5 (continued)

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
353.00	21.56	0.02384	-36.0	319.3	0.10121
344.00	20.88	0.02427	-37.6	319.5	0.10060
336.00	17.23	0.02459	-39.2	319.5	0.08496
327.00	15.06	0.02491	-40.7	319.9	0.07633
318.00	14.30	0.02522	-42.1	320.6	0.07450
310.00	13.26	0.02549	-43.6	320.8	0.07089
303.00	12.70	0.02572	-45.1	320.8	0.06942
244.00	12.73	0.02790	-46.4	339.3	0.08647
287.00	12.77	0.02626	-47.9	321.8	0.07374
279.00	12.82	0.02655	-49.3	322.4	0.07614
271.00	13.36	0.02685	-50.6	323.2	0.08169
263.00	13.87	0.02718	-52.1	323.8	0.08737
256.00	13.91	0.02748	-53.4	324.3	0.09003
249.00	11.83	0.02774	-55.0	324.5	0.07875
242.50	9.73	0.02794	-56.2	325.1	0.06648
235.00	9.68	0.02818	-57.5	326.1	0.06826
229.00	9.20	0.02837	-59.1	326.2	0.06655
222.00	8.64	0.02858	-60.3	327.3	0.06452
215.00	10.14	0.02884	-61.7	328.1	0.07812
209.00	13.19	0.02913	-62.5	329.5	0.10458
202.50	16.00	0.02953	-63.0	331.7	0.13095
196.00	20.59	0.03006	-62.7	335.2	0.17405
189.00	24.97	0.03078	-62.0	340.0	0.21892
183.00	29.44	0.03153	-61.5	343.9	0.26658
177.30	35.56	0.03242	-61.0	347.8	0.33238
172.00	40.98	0.03340	-60.0	352.4	0.39479
167.00	43.12	0.03440	-58.9	357.3	0.42782
162.00	44.86	0.03548	-58.2	361.6	0.45888
157.50	46.66	0.03652	-58.0	364.9	0.49093
153.00	51.90	0.03770	-57.8	368.3	0.56210
148.00	55.92	0.03917	-57.8	371.8	0.62608
144.00	67.10	0.04062	-56.7	376.6	0.77213
140.70	89.47	0.04226	-55.2	381.7	1.05363
137.00	96.92	0.04430	-54.4	386.0	1.17224
134.00	97.03	0.04600	-54.0	389.2	1.19984
130.00	95.60	0.04828	-54.2	392.2	1.21847
126.70	94.28	0.05020	-54.4	394.7	1.23302
123.00	94.68	0.05241	-54.6	397.7	1.27555
120.50	96.17	0.05397	-55.0	399.3	1.32239
117.00	99.05	0.05628	-55.2	402.3	1.40284
114.50	105.19	0.05807	-55.6	404.1	1.52222
111.00	109.66	0.06076	-55.8	407.3	1.63701
108.00	113.16	0.06321	-56.0	410.1	1.73616
105.00	116.10	0.06579	-55.4	414.6	1.83212
102.70	113.76	0.06778	-54.2	419.5	1.83551
100.00	102.06	0.06993	-54.4	422.4	1.69115
98.00	84.53	0.07127	-55.2	423.2	1.42921
96.00	70.19	0.07242	-55.4	425.3	1.21156
93.90	65.19	0.07356	-55.2	428.4	1.15031
91.80	65.89	0.07473	-55.2	431.2	1.18937
89.80	70.35	0.07596	-55.4	433.5	1.29820
87.80	79.20	0.07736	-55.2	436.7	1.49478
85.80	89.16	0.07899	-55.2	439.6	1.72194
83.80	94.61	0.08075	-55.2	442.6	1.87067
82.00	96.95	0.08241	-55.2	445.3	1.95909

Table 5 (continued)

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
80.00	97.05	0.08430	-55.2	448.5	2.01018
78.20	97.22	0.08605	-56.0	449.7	2.06003
76.20	99.04	0.08807	-56.2	452.6	2.15375
74.60	100.49	0.08976	-57.1	453.6	2.23210
72.90	102.28	0.09162	-57.5	455.6	2.32491
71.30	100.44	0.09338	-57.3	459.0	2.33412
69.60	98.61	0.09526	-57.1	462.6	2.34775
67.80	98.93	0.09731	-57.5	465.2	2.41792
66.30	99.09	0.09906	-57.5	468.2	2.47662
64.80	98.88	0.10084	-57.8	470.8	2.52847
63.20	98.88	0.10279	-57.5	474.6	2.59248
61.80	103.32	0.10462	-57.3	478.2	2.77032
60.20	107.38	0.10685	-57.1	482.2	2.95573
58.80	110.70	0.10890	-57.1	485.5	3.11964
57.20	113.77	0.11138	-57.1	489.3	3.29561
55.90	125.90	0.11367	-56.9	493.0	3.73195
54.60	132.14	0.11612	-57.1	495.9	4.01013
53.30	137.83	0.11874	-56.9	499.8	4.28500
52.00	141.00	0.12149	-56.5	504.3	4.49290
50.80	145.74	0.12418	-56.0	508.7	4.75373
49.50	149.63	0.12724	-55.6	513.5	5.00889
47.10	160.15	0.13353	-55.6	520.8	5.63428
46.00	163.13	0.13657	-56.0	523.3	5.87629
44.80	163.01	0.13997	-56.7	525.7	6.02909
43.80	163.32	0.14288	-56.9	528.6	6.17850
42.70	164.53	0.14619	-57.1	532.0	6.38482
41.70	164.10	0.14926	-56.2	537.7	6.52067
40.60	161.03	0.15266	-55.6	543.4	6.57195
39.60	161.84	0.15584	-55.6	547.3	6.77185
38.60	161.40	0.15910	-55.4	551.8	6.92864
37.60	160.51	0.16243	-55.4	555.9	7.07338
36.70	163.14	0.16555	-55.4	559.8	7.36579
35.80	164.88	0.16878	-55.2	564.3	7.63139
34.90	164.84	0.17209	-55.0	569.0	7.82622
34.05	165.22	0.17531	-53.8	576.2	8.04038
33.20	165.18	0.17861	-53.0	582.4	8.24411
32.30	165.22	0.18219	-51.9	590.1	8.47601
31.50	165.18	0.18546	-51.5	595.3	8.68882
30.75	164.35	0.18859	-51.9	598.4	8.85603
30.00	163.00	0.19177	-52.6	600.6	9.00308
29.20	163.04	0.19525	-53.0	604.2	9.25181
28.50	161.78	0.19835	-53.0	608.4	9.40610
27.90	159.53	0.20103	-53.0	612.1	9.47447
27.20	157.33	0.20418	-53.0	616.5	9.58452
26.60	155.12	0.20692	-53.0	620.5	9.66265
25.90	153.83	0.21015	-52.4	626.9	9.84126
25.30	150.81	0.21295	-52.1	632.2	9.87749
24.60	149.52	0.21626	-51.5	638.9	10.07165
24.10	148.75	0.21867	-51.7	642.1	10.22700
23.40	147.02	0.22209	-51.7	647.5	10.41106
22.85	145.30	0.22482	-51.3	653.0	10.53684
22.30	144.44	0.22760	-50.4	660.3	10.73277
21.80	142.37	0.23015	-50.8	663.5	10.82127
21.20	141.05	0.23326	-50.9	668.3	11.02429
20.80	140.18	0.23536	-50.9	671.9	11.16750

Table 5 (continued)

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
20.20	138.89	0.23857	-50.8	678.1	11.39294
19.70	137.16	0.24129	-49.5	686.9	11.53683
19.20	135.08	0.24403	-48.3	695.8	11.65727
18.70	133.78	0.24682	-48.3	701.0	11.85411
18.30	132.11	0.24907	-48.4	704.8	11.96183
17.85	130.83	0.25164	-48.6	709.3	12.14445
17.40	131.32	0.25429	-48.6	714.5	12.50530
17.00	130.89	0.25669	-48.8	718.7	12.75753
16.60	131.32	0.25916	-49.1	722.5	13.10797
16.27	128.44	0.26120	-49.3	726.1	13.08056
15.90	125.96	0.26349	-49.5	730.3	13.12659
15.55	123.95	0.26567	-49.5	734.9	13.20787
15.20	122.70	0.26787	-49.7	739.1	13.37571
14.77	120.77	0.27061	-49.8	744.6	13.54895
14.40	118.84	0.27299	-49.8	750.0	13.67449
14.07	117.21	0.27513	-49.3	756.8	13.80306
13.70	136.84	0.27801	-48.8	764.4	16.55082
13.40	113.50	0.28000	-48.4	770.5	14.03471
13.10	111.81	0.28200	-48.1	776.7	14.14215
12.80	110.84	0.28402	-47.4	784.2	14.34898
12.50	109.21	0.28607	-46.6	792.5	14.47637
12.20	107.51	0.28813	-46.6	798.0	14.60179
11.90	106.72	0.29023	-46.6	803.7	14.85986
11.60	105.02	0.29235	-46.6	809.6	15.00155
11.30	103.33	0.29448	-46.4	816.3	15.15255
11.07	101.02	0.29612	-46.4	821.1	15.12069
10.80	99.64	0.29807	-46.4	826.9	15.28684
10.57	98.36	0.29974	-46.4	832.0	15.41968
10.30	97.09	0.30172	-46.4	838.2	15.61884
10.05	95.39	0.30357	-45.7	846.6	15.72719
9.85	93.74	0.30506	-44.9	854.5	15.76931
9.72	92.54	0.30603	-43.5	863.2	15.77564
9.60	93.15	0.30694	-42.5	869.8	16.07738
9.49	91.47	0.30778	-41.6	876.1	15.97187
9.40	90.13	0.30845	-40.7	882.0	15.88746

Table 5 (continued)

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
584.00					
580.00	33.35	0.00018	-10.9	306.4	0.09529
571.00	32.61	0.00058	-11.7	306.9	0.09463
563.00	32.20	0.00094	-12.6	307.1	0.09477
556.00	31.88	0.00126	-13.4	307.1	0.09500
547.50	31.88	0.00165	-14.2	307.6	0.09648
539.00	31.79	0.00204	-15.1	307.9	0.09773
531.00	31.38	0.00241	-15.9	308.2	0.09792
523.00	29.76	0.00276	-16.8	308.5	0.09430
515.50	29.41	0.00310	-17.7	308.7	0.09452
508.00	29.76	0.00344	-18.6	308.9	0.09708
500.00	29.85	0.00382	-19.3	309.4	0.09894
493.00	30.71	0.00416	-20.2	309.6	0.10323
485.50	31.54	0.00454	-21.1	309.9	0.10764
478.00	31.21	0.00493	-22.0	310.2	0.10820
470.50	30.12	0.00530	-22.8	310.5	0.10607
463.00	30.03	0.00568	-23.6	311.0	0.10745
456.00	29.12	0.00603	-24.6	311.1	0.10582
449.00	29.03	0.00639	-25.4	311.5	0.10714
442.00	27.60	0.00673	-26.2	311.9	0.10345
435.00	28.49	0.00709	-26.8	312.5	0.10854
428.00	27.96	0.00745	-27.8	312.6	0.10824
421.00	27.51	0.00781	-28.6	313.1	0.10828
414.00	27.96	0.00818	-29.5	313.4	0.11190
407.00	27.96	0.00855	-30.3	314.0	0.11382
401.50	27.06	0.00884	-31.0	314.3	0.11169
394.00	27.96	0.00926	-31.7	315.1	0.11758
387.50	30.12	0.00965	-32.2	315.9	0.12879
381.00	32.11	0.01008	-33.0	316.4	0.13965
374.00	33.02	0.01057	-33.5	317.4	0.14629
368.00	32.54	0.01098	-34.4	317.7	0.14650
361.50	30.23	0.01141	-35.2	318.2	0.13855
355.00	29.06	0.01182	-36.0	318.8	0.13565
349.00	26.44	0.01218	-36.9	319.2	0.12554
343.00	23.94	0.01251	-37.8	319.6	0.11563
337.00	23.18	0.01283	-38.9	319.6	0.11399
330.00	22.41	0.01320	-39.9	320.1	0.11254
324.50	21.96	0.01349	-41.1	320.0	0.11213
319.00	22.34	0.01380	-42.2	320.1	0.11606
313.00	21.89	0.01412	-43.5	320.1	0.11588
307.00	21.96	0.01446	-44.7	320.1	0.11852
301.00	22.35	0.01481	-45.9	320.3	0.12306
295.00	23.14	0.01518	-46.9	320.7	0.12999
289.50	23.99	0.01553	-48.1	320.7	0.13729
284.00	24.93	0.01591	-49.0	321.2	0.14545
278.00	25.36	0.01634	-50.0	321.7	0.15116
272.50	25.37	0.01674	-51.1	321.9	0.15430
267.00	25.05	0.01714	-51.9	322.7	0.15549
262.00	24.23	0.01750	-53.0	322.8	0.15322
257.00	23.75	0.01786	-54.0	323.1	0.15313
251.00	22.57	0.01828	-55.0	323.8	0.14899
246.00	23.34	0.01866	-56.0	324.1	0.15724
241.00	23.36	0.01903	-57.1	324.4	0.16059
236.00	22.66	0.01941	-58.2	324.7	0.15913
231.00	22.68	0.01979	-59.3	325.0	0.16266
226.00	25.15	0.02023	-60.0	326.0	0.18438

Table 5 (continued)

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
221.00	27.51	0.02071	-61.2	326.2	0.20628
216.50	33.29	0.02125	-62.2	326.6	0.25478
212.00	40.59	0.02193	-62.5	328.2	0.31722
207.00	47.32	0.02282	-62.5	330.5	0.37881
202.00	54.30	0.02387	-62.5	332.8	0.44545
197.00	60.89	0.02507	-62.2	335.6	0.51215
193.00	65.27	0.02613	-61.7	338.3	0.56041
188.50	69.55	0.02742	-61.7	340.6	0.61139
184.00	72.71	0.02881	-62.0	342.6	0.65479
179.50	78.95	0.03035	-62.2	344.6	0.72876
175.00	83.88	0.03204	-61.2	348.7	0.79421
171.50	85.04	0.03339	-60.3	352.3	0.82168
167.00	87.87	0.03524	-59.3	356.6	0.87188
163.00	94.82	0.03705	-58.4	360.6	0.96396
159.00	104.68	0.03911	-57.8	364.3	1.09089
156.00	114.65	0.04083	-57.5	366.6	1.21779
152.00	123.03	0.04335	-57.3	369.7	1.34115
147.50	129.51	0.04643	-57.1	373.3	1.45488
143.00	128.63	0.04957	-55.2	379.9	1.49048
139.50	122.60	0.05197	-54.2	384.4	1.45625
136.00	119.27	0.05436	-54.2	387.2	1.45312
132.50	117.30	0.05678	-54.2	390.1	1.46687
129.00	119.33	0.05930	-54.8	392.0	1.53281
126.00	119.15	0.06152	-55.2	393.9	1.56688
122.50	120.68	0.06420	-55.4	396.7	1.63244
119.30	120.30	0.06671	-55.6	399.3	1.67095
116.00	119.79	0.06937	-56.0	401.8	1.71115
113.00	119.76	0.07184	-56.2	404.4	1.75615
109.50	113.29	0.07466	-55.2	410.0	1.71428
106.40	102.89	0.07699	-54.4	414.9	1.60231
103.50	90.78	0.07897	-54.8	417.5	1.45333
100.50	80.32	0.08084	-55.0	420.6	1.32427
97.50	88.21	0.08295	-55.8	422.6	1.49913
94.80	98.52	0.08513	-56.9	424.0	1.72200
92.10	110.59	0.08766	-57.1	427.1	1.98971
89.40	118.13	0.09043	-56.2	432.4	2.18947
86.80	119.32	0.09321	-55.8	436.9	2.27778
84.10	119.51	0.09619	-55.6	441.3	2.35468
81.70	121.57	0.09897	-56.2	443.7	2.46570
79.00	125.73	0.10231	-57.1	446.2	2.63725
76.70	128.46	0.10530	-57.3	449.5	2.77511
74.10	129.91	0.10884	-57.5	453.5	2.90502
71.50	133.88	0.11262	-57.8	457.7	3.10261
69.20	138.40	0.11619	-57.8	462.0	3.31389
66.90	144.57	0.12005	-57.8	466.5	3.58064
64.60	151.23	0.12423	-57.8	471.2	3.87899
62.30	158.27	0.12876	-57.8	476.1	4.20962
60.00	164.87	0.13365	-57.5	481.7	4.55326
58.00	169.27	0.13818	-57.5	486.4	4.83598
56.00	175.43	0.14304	-57.3	491.8	5.19085
54.00	178.52	0.14817	-57.1	497.4	5.47790
52.00	181.25	0.15357	-56.5	504.3	5.77573
50.00	180.81	0.15917	-56.2	510.5	5.99209
48.10	178.23	0.16462	-56.2	516.2	6.13995
46.30	174.78	0.16989	-57.1	519.8	6.25503

Table 5 (continued)

WASHINGTON,D.C. 4/21/69 1608Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
44.50	173.45	0.17532	-57.5	524.7	6.45842
42.80	172.00	0.18061	-57.1	531.6	6.65880
41.00	170.62	0.18639	-56.0	540.8	6.89541
39.30	169.30	0.19205	-55.2	549.5	7.13799
37.50	166.17	0.19820	-54.4	559.0	7.34264
35.80	162.69	0.20416	-54.0	567.5	7.53018
34.10	158.29	0.21024	-53.4	577.0	7.69165
32.50	154.33	0.21610	-53.0	586.0	7.86830
30.90	151.24	0.22213	-53.0	594.5	8.11025
29.40	147.28	0.22791	-52.8	603.5	8.30094
27.80	142.77	0.23422	-52.6	613.8	8.50979
26.30	137.96	0.24026	-52.3	624.7	8.69202
24.85	134.39	0.24628	-52.1	635.4	8.96087
23.30	132.62	0.25303	-51.9	647.8	9.43144
22.20	129.60	0.25797	-51.7	657.3	9.67330
21.00	125.41	0.26348	-51.5	668.4	9.89506
19.80	123.13	0.26920	-51.1	680.9	10.30435
18.70	121.18	0.27467	-50.4	694.4	10.73745
17.90	118.22	0.27875	-50.0	704.3	10.94319
17.10	115.73	0.28292	-49.8	714.1	11.21385
16.30	113.31	0.28721	-49.3	725.7	11.51898
15.60	110.85	0.29105	-49.1	735.4	11.77434
14.95	108.95	0.29471	-48.6	746.2	12.07527
14.30	107.23	0.29848	-48.4	756.3	12.42471
13.80	105.45	0.30144	-48.1	765.2	12.66119
12.20	99.40	0.31111	-47.9	793.2	13.50069
11.75	97.96	0.31402	-47.7	802.4	13.81382
11.30	95.80	0.31697	-47.6	812.0	14.04804
11.00	94.41	0.31898	-47.6	818.3	14.22226
10.60	93.08	0.32170	-47.6	827.0	14.55005
10.30	90.87	0.32376	-46.7	836.9	14.61824
10.00	90.40	0.32587	-46.1	846.5	14.97941
9.80	89.66	0.32730	-44.9	855.7	15.16027
9.66	89.66	0.32832	-43.8	863.5	15.37999
9.52	89.66	0.32935	-42.1	873.6	15.60616
9.40	90.13	0.33025	-40.7	882.0	15.88746

Table 6

WASHINGTON,D.C. 5/2/69 1550Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1022.10	18.8	3.0	4.60756	290.1		
995.00	15.7	2.2	4.45342	289.2	0.12528185	0.12528185
979.00	12.7	1.4	4.26614	287.6	0.07118006	0.19646191
961.00	10.6	0.6	4.10335	287.0	0.07686263	0.27332454
946.00	9.1	0.6	4.16885	286.8	0.06330759	0.33663213
930.00	7.9	-2.3	3.37968	286.9	0.06162064	0.39825277
912.00	7.4	-3.7	3.07938	288.1	0.05931791	0.45757069
897.00	6.2	-3.7	3.13113	288.2	0.04752943	0.50510012
883.00	5.0	-4.3	3.01282	288.3	0.04388536	0.54898548
868.00	4.3	-4.3	3.06514	288.9	0.04651497	0.59550045
852.00	3.7	-4.3	3.12299	289.9	0.05051533	0.64601577
838.00	3.3	-8.8	2.14167	290.8	0.03760474	0.68362051
824.00	2.8	-21.1	0.70028	291.6	0.02029969	0.70392020
809.00	2.0	-14.7	1.31143	292.4	0.01539577	0.71931597
795.00	1.5	-11.3	1.81896	293.3	0.02235995	0.74167593
780.00	1.1	-21.4	0.71916	294.4	0.01942444	0.76110036
767.00	1.3	-27.7	0.39157	296.1	0.00736713	0.76846750
753.00	1.1	-22.0	0.70458	297.4	0.00782968	0.77629718
740.00	0.1	-18.3	1.02180	297.8	0.01145053	0.78774771
736.00	-0.2	-26.8	0.44686	298.0	0.00299726	0.79074497
726.00	-0.4	-26.1	0.48591	298.8	0.00475901	0.79550398
718.00	-0.4	-26.8	0.45807	299.8	0.00385296	0.79935694
709.00	-0.4	-30.5	0.31491	300.9	0.00354939	0.80290634
700.00	-0.4	-28.7	0.38458	302.0	0.00321195	0.80611829
690.00	-0.7	-27.5	0.44517	302.9	0.00423341	0.81035169
680.00	-1.0	-22.5	0.73886	303.9	0.00604097	0.81639266
672.00	-1.3	-26.1	0.52499	304.6	0.00515857	0.82155123
663.00	-1.7	-19.3	1.03907	305.3	0.00718191	0.82873314
655.00	-2.2	-19.3	1.05178	305.8	0.00853409	0.83726723
647.00	-2.5	-17.6	1.24645	306.5	0.00938055	0.84664778
638.00	-3.1	-18.3	1.18548	307.0	0.01116702	0.85781480
629.00	-3.9	-19.0	1.12951	307.3	0.01063004	0.86844484
621.00	-4.5	-19.9	1.04449	307.9	0.00887347	0.87731831
612.00	-5.1	-20.8	0.97065	308.4	0.00925320	0.88657150
604.00	-6.0	-21.1	0.95574	308.5	0.00786283	0.89443434
596.00	-6.8	-21.4	0.94153	308.8	0.00774395	0.90217829
588.00	-7.6	-22.0	0.90259	309.1	0.00752698	0.90970527
580.00	-8.3	-24.4	0.72178	309.4	0.00663006	0.91633534
571.50	-9.1	-26.6	0.58909	309.8	0.00568490	0.92202023
563.00	-10.0	-27.0	0.57102	310.1	0.00503109	0.92705133
555.00	-10.6	-28.3	0.50660	310.7	0.00439844	0.93144977
548.00	-11.2	-29.6	0.45145	311.0	0.00342159	0.93487136
539.00	-12.1	-31.5	0.37526	311.5	0.00379614	0.93866749
530.00	-13.0	-33.3	0.31604	311.9	0.00317438	0.94184187
522.00	-13.7	-32.7	0.33915	312.4	0.00267428	0.94451615
515.00	-14.7	-33.3	0.32525	312.4	0.00237289	0.94688904
507.00	-15.4	-33.1	0.33650	312.9	0.00270106	0.94959010
498.00	-16.2	-35.2	0.27210	313.6	0.00279461	0.95238471
490.00	-16.9	-34.9	0.28621	314.2	0.00227882	0.95466352
483.00	-17.7	-34.4	0.30593	314.5	0.00211480	0.95677833
475.00	-18.4	-33.3	0.35266	315.1	0.00268814	0.95946646
468.00	-19.5	-33.4	0.35147	315.1	0.00251475	0.96198122
460.00	-20.5	-33.3	0.36417	315.4	0.00292097	0.96490218
453.00	-21.2	-33.9	0.34401	315.9	0.00252919	0.96743138
446.00	-22.1	-34.3	0.33722	316.2	0.00243294	0.96986431

Table 6 (continued)

WASHINGTON,D.C. 5/2/69 1550Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
439.00	-23.1	-35.7	0.29338	316.4	0.00225213	0.97211644
432.00	-23.9	-36.9	0.26131	316.8	0.00198103	0.97409747
425.00	-24.6	-38.6	0.21999	317.4	0.00171893	0.97581640
418.00	-25.2	-40.6	0.17914	318.2	0.00142545	0.97724185
411.00	-26.2	-41.9	0.15609	318.4	0.00119724	0.97843908
404.00	-27.3	-42.6	0.14633	318.5	0.00108006	0.97951914
398.00	-28.3	-43.0	0.14268	318.6	0.00088471	0.98040385
392.00	-29.5	-43.5	0.13558	318.5	0.00085182	0.98125566
386.00	-30.5	-43.9	0.13240	318.5	0.00082036	0.98207603
380.00	-31.5	-44.2	0.12937	318.6	0.00080134	0.98287737
373.00	-32.4	-44.5	0.12683	319.1	0.00091499	0.98379236
367.00	-33.5	-44.6	0.12727	319.2	0.00077784	0.98457020
361.00	-34.5	-44.5	0.13104	319.3	0.00079075	0.98536095
355.00	-35.3	-44.1	0.14028	319.7	0.00083059	0.98619154
349.00	-36.4	-44.1	0.14269	319.8	0.00086625	0.98705779
343.00	-37.5	-44.2	0.14333	319.9	0.00087558	0.98793337
337.00	-38.3	-44.1	0.14778	320.4	0.00089114	0.98882451
331.50	-39.2	-44.1	0.15023	320.8	0.00083624	0.98966075
326.00	-40.2	-46.5	0.11463	320.9	0.00074321	0.99040396
320.00	-40.9	-47.2	0.10738	321.7	0.00067961	0.99108357
315.00	-41.8	-47.9	0.10046	321.9	0.00053021	0.99161378
309.00	-42.6	-48.3	0.09776	322.4	0.00060680	0.99222057
303.00	-43.7	-49.9	0.08221	322.8	0.00055094	0.99277151
298.00	-44.6	-50.0	0.08175	323.0	0.00041828	0.99318979
293.00	-45.4	-50.7	0.07614	323.5	0.00040279	0.99359258
287.50	-46.5	-51.8	0.06817	323.7	0.00040494	0.99399752
282.00	-47.6	-52.5	0.06384	323.8	0.00037042	0.99436795
277.00	-48.4	-52.6	0.06364	324.3	0.00032520	0.99469314
271.00	-49.4	-52.8	0.06370	324.9	0.00038980	0.99508294
266.00	-50.4	-53.8	0.05729	325.2	0.00030865	0.99539159
261.00	-51.8	-54.0	0.05662	324.9	0.00029060	0.99568219
256.00	-52.9	-55.0	0.05110	325.1	0.00027480	0.99595699
250.00	-53.3	-55.8	0.04687	326.7	0.00029990	0.99625689
245.00	-53.8	-57.2	0.03966	327.8	0.00022074	0.99647763
240.00	-54.8	-59.9	0.02837	328.3	0.00017354	0.99665116
235.50	-55.2	-60.0	0.02836	329.5	0.00013025	0.99678141
231.00	-55.6	-60.7	0.02656	330.7	0.00012609	0.99690750
226.50	-55.8	-62.5	0.02102	332.3	0.00010922	0.99701673
221.50	-56.5	-63.6	0.01852	333.2	0.00010086	0.99711758
217.00	-57.1	-64.9	0.01571	334.2	0.00007859	0.99719617
212.00	-57.8	-66.5	0.01287	335.5	0.00007290	0.99726907
208.00	-58.4	-67.4	0.01140	336.4	0.00004952	0.99731859
203.50	-59.5	-67.6	0.01133	336.8	0.00005217	0.99737076
199.50	-61.0	-67.9	0.01113	336.3	0.00004582	0.99741659
195.00	-61.5	-67.8	0.01149	337.7	0.00005193	0.99746852
191.00	-61.7	-67.7	0.01195	339.4	0.00004785	0.99751637
187.00	-61.9	-67.8	0.01198	341.0	0.00004885	0.99756522
183.00	-62.2	-68.1	0.01179	342.8	0.00004852	0.99761374
179.00	-62.2	-68.3	0.01161	344.9	0.00004776	0.99766150
175.50	-62.2	-68.7	0.01119	346.9	0.00004071	0.99770221
172.00	-62.4	-69.9	0.00961	348.5	0.00003714	0.99773935
168.00	-62.6	-70.6	0.00885	350.5	0.00003768	0.99777703
164.00	-62.4	-73.2	0.00610	353.3	0.00003050	0.99780753
160.70	-62.4	-75.0	0.00470	355.3	0.00001818	0.99782571
157.50	-61.9	-76.7	0.00370	358.2	0.00001372	0.99783943

Table 6 (continued)

WASHINGTON,D.C. 5/2/69 1550Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
153.70	-61.5	-79.4	0.00245	361.5	0.00001192	0.99785136
150.00	-61.0	-79.8	0.00233	364.8	0.00000903	0.99786038
146.50	-60.1	-80.3	0.00222	368.8	0.00000813	0.99786851
143.00	-59.5	-80.3	0.00227	372.5	0.00000802	0.99787653
140.00	-59.5	-80.7	0.00218	374.8	0.00000682	0.99788334
137.00	-59.9	-81.7	0.00189	376.3	0.00000622	0.99788957
133.50	-60.3	-81.8	0.00188	378.3	0.00000673	0.99789630
130.00	-60.6	-81.7	0.00199	380.8	0.00000691	0.99790321
127.00	-60.1	-81.7	0.00203	384.2	0.00000615	0.99790936
124.00	-59.7	-81.7	0.00206	387.6	0.00000626	0.99791562
120.70	-59.2	-81.6	0.00217	391.4	0.00000711	0.99792273
117.50	-58.8	-81.4	0.00229	395.2	0.00000727	0.99793000
114.30	-58.8	-81.4	0.00235	398.3	0.00000757	0.99793757
111.00	-58.6	-81.4	0.00245	402.1	0.00000808	0.99794565
108.40	-58.8	-81.2	0.00258	404.4	0.00000667	0.99795232
106.00	-58.8	-81.6	0.00247	407.0	0.00000618	0.99795850
103.00	-58.8	-82.7	0.00211	410.4	0.00000700	0.99796550
100.50	-58.8	-84.4	0.00163	413.3	0.00000476	0.99797026
97.80	-58.2	-82.9	0.00213	417.7	0.00000517	0.99797543
95.20	-57.1	-82.8	0.00225	423.0	0.00000581	0.99798124
92.80	-56.7	-83.4	0.00209	426.8	0.00000531	0.99798655
90.00	-56.9	-83.9	0.00195	430.2	0.00000578	0.99799233
87.80	-57.6	-84.1	0.00194	432.0	0.00000437	0.99799671
85.20	-57.8	-84.2	0.00197	435.3	0.00000520	0.99800190
83.00	-58.0	-84.5	0.00191	438.2	0.00000436	0.99800627
80.70	-58.6	-84.8	0.00188	440.4	0.00000445	0.99801071
78.50	-58.8	-83.9	0.00227	443.5	0.00000466	0.99801537
76.00	-58.4	-83.4	0.00252	448.5	0.00000611	0.99802148
73.90	-58.4	-83.4	0.00259	452.1	0.00000547	0.99802696
70.70	-58.2	-83.4	0.00271	458.3	0.00000865	0.99803561
69.60	-58.0	-83.5	0.00271	460.8	0.00000304	0.99803865
67.50	-58.0	-83.3	0.00292	464.8	0.00000603	0.99804468
65.50	-58.0	-83.3	0.00301	468.9	0.00000604	0.99805073
63.50	-58.0	-83.2	0.00314	473.0	0.00000628	0.99805700
61.50	-58.0	-83.2	0.00325	477.4	0.00000652	0.99806353
59.60	-58.0	-83.4	0.00326	481.7	0.00000631	0.99806983
57.70	-58.0	-83.4	0.00332	486.1	0.00000637	0.99807621
55.80	-58.2	-83.6	0.00334	490.3	0.00000645	0.99808266
54.00	-58.4	-83.8	0.00335	494.5	0.00000614	0.99808879
52.30	-58.0	-84.7	0.00294	500.0	0.00000546	0.99809425
50.60	-57.4	-85.0	0.00288	506.2	0.00000505	0.99809930
49.10	-57.1	-87.7	0.00184	511.0	0.00000361	0.99810291
47.50	-57.1	-85.1	0.00301	515.9	0.00000396	0.99810687
46.00	-57.1	-85.7	0.00283	520.6	0.00000446	0.99811133
44.40	-56.9	-85.9	0.00284	526.4	0.00000463	0.99811596
42.80	-56.9	-86.2	0.00276	532.0	0.00000457	0.99812053
41.30	-56.7	-86.6	0.00268	537.9	0.00000417	0.99812470
39.70	-56.5	-88.2	0.00209	544.5	0.00000389	0.99812859
38.30	-55.2	-86.0	0.00319	553.7	0.00000377	0.99813236
36.80	-54.6	-86.3	0.00316	561.5	0.00000486	0.99813722
35.40	-55.0	-86.6	0.00313	566.7	0.00000449	0.99814171
33.90	-55.2	-86.8	0.00315	573.3	0.00000480	0.99814652
32.50	-54.6	-87.3	0.00303	581.8	0.00000442	0.99815093
31.20	-53.7	-87.8	0.00285	591.1	0.00000390	0.99815484
29.70	-52.9	-88.1	0.00284	601.5	0.00000435	0.99815919

Table 6 (continued)

WASHINGTON,D.C. 5/2/69 1550Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
28.40	-52.2	-88.0	0.00302	611.3	0.00000389	0.99816308
26.90	-52.0	-88.3	0.00302	621.3	0.00000463	0.99816770
25.60	-51.8	-88.6	0.00301	630.7	0.00000400	0.99817171
24.40	-52.9	-89.0	0.00293	636.3	0.00000364	0.99817534
23.20	-53.5	-89.1	0.00303	643.9	0.00000365	0.99817899
22.20	-53.3	-89.5	0.00299	652.6	0.00000307	0.99818206
21.10	-52.9	-89.6	0.00308	663.2	0.00000341	0.99818547
20.15	-51.7	-89.5	0.00330	675.9	0.00000309	0.99818856
19.30	-50.3	-90.0	0.00314	688.6	0.00000279	0.99819135
18.50	-49.6	-89.8	0.00338	699.1	0.00000266	0.99819401
17.80	-49.2	-90.0	0.00338	707.9	0.00000242	0.99819643
17.05	-48.6	-90.1	0.00346	718.8	0.00000262	0.99819904
16.40	-47.9	-90.3	0.00347	728.9	0.00000230	0.99820134
15.80	-47.3	-90.5	0.00349	738.9	0.00000213	0.99820347
15.20	-47.1	-90.4	0.00366	747.6	0.00000219	0.99820566
14.65	-46.9	-90.5	0.00372	756.1	0.00000207	0.99820773
14.10	-46.8	-90.7	0.00378	764.9	0.00000210	0.99820983
13.60	-46.6	-90.9	0.00376	773.4	0.00000192	0.99821175
13.10	-46.3	-91.4	0.00358	782.8	0.00000187	0.99821363
12.65	-45.7	-91.7	0.00347	792.9	0.00000162	0.99821525
12.20	-44.9	-91.9	0.00348	803.8	0.00000160	0.99821685
11.80	-44.0	-92.1	0.00348	814.8	0.00000142	0.99821827
11.40	-43.1	-93.3	0.00287	826.1	0.00000130	0.99821956
11.10	-42.0	-93.4	0.00288	836.2	0.00000088	0.99822044
10.80	-41.3	-93.5	0.00289	845.4	0.00000088	0.99822133
10.50	-40.6	-91.9	0.00402	854.9	0.00000106	0.99822238
10.20	-40.2	-91.3	0.00461	863.6	0.00000132	0.99822370
9.95	-39.6	-91.7	0.00443	871.9	0.00000115	0.99822486
9.75	-39.5	-93.0	0.00352	877.5	0.00000081	0.99822567
9.53	-39.5	-91.7	0.00463	883.2	0.00000091	0.99822658
9.34	-39.6	-93.7	0.00323	887.8	0.00000076	0.99822734
9.17	-39.9	-93.7	0.00329	891.4	0.00000056	0.99822791
9.03	-39.6	-93.5	0.00346	896.4	0.00000048	0.99822839
8.90	-39.6	-94.1	0.00315	900.1	0.00000044	0.99822883
8.78	-38.9	-94.1	0.00319	906.3	0.00000039	0.99822922

Table 7

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
979.00					
961.00	68.57	0.00100	10.6	287.0	0.11824
946.00	69.15	0.00186	9.1	286.8	0.12112
930.00	68.18	0.00278	7.9	286.9	0.12147
912.00	68.36	0.00384	7.4	288.1	0.12421
897.00	69.36	0.00474	6.2	288.2	0.12812
883.00	72.58	0.00565	5.0	288.3	0.13620
868.00	72.32	0.00662	4.3	288.9	0.13806
852.00	69.71	0.00765	3.7	289.9	0.13557
838.00	65.77	0.00851	3.3	290.8	0.13004
824.00	58.27	0.00928	2.8	291.6	0.11719
809.00	54.06	0.01007	2.0	292.4	0.11072
795.00	53.38	0.01080	1.5	293.3	0.11127
780.00	50.71	0.01157	1.1	294.4	0.10772
767.00	48.90	0.01222	1.3	296.1	0.10565
753.00	45.57	0.01288	1.1	297.4	0.10029
740.00	42.19	0.01346	0.1	297.8	0.09448
726.00	39.17	0.01405	-0.7	298.5	0.08941
712.00	41.69	0.01469	-0.4	300.5	0.09702
700.00	44.71	0.01529	-0.0	302.4	0.10583
688.00	48.44	0.01595	-0.9	303.0	0.11667
675.50	49.33	0.01667	-1.4	304.0	0.12101
663.00	44.18	0.01732	-2.1	304.9	0.11041
652.00	41.16	0.01786	-2.6	305.7	0.10461
639.00	39.65	0.01849	-3.5	306.4	0.10282
627.00	38.14	0.01906	-4.5	307.0	0.10080
614.00	37.14	0.01968	-5.2	308.0	0.10022
600.00	36.37	0.02034	-6.2	309.0	0.10043
589.00	36.01	0.02087	-7.2	309.4	0.10131
578.00	35.09	0.02139	-8.3	309.7	0.10060
567.00	32.28	0.02188	-9.2	310.4	0.09434
556.50	29.47	0.02231	-10.2	310.9	0.08776
546.00	28.15	0.02274	-11.4	311.2	0.08543
533.50	28.65	0.02326	-12.6	311.8	0.08900
521.00	30.68	0.02383	-13.8	312.4	0.09757
512.00	35.84	0.02433	-15.1	312.5	0.11599
502.00	29.14	0.02478	-16.3	312.7	0.09619
490.00	28.13	0.02532	-17.4	313.6	0.09513
481.00	27.66	0.02572	-18.5	313.9	0.09529
470.00	26.17	0.02620	-19.6	314.6	0.09227
458.00	27.10	0.02675	-20.9	315.4	0.09804
448.00	30.13	0.02728	-22.2	315.7	0.11146
438.00	34.33	0.02789	-23.6	316.0	0.12987
427.00	30.04	0.02849	-24.8	316.7	0.11656
416.00	29.11	0.02909	-26.2	317.3	0.11593
405.00	30.02	0.02973	-27.7	317.8	0.12281
396.00	30.10	0.03026	-29.1	318.0	0.12593
384.50	29.18	0.03094	-30.6	318.7	0.12576
375.00	28.14	0.03150	-32.0	319.1	0.12434
366.00	27.67	0.03203	-33.3	319.6	0.12529
357.00	26.75	0.03256	-34.8	319.9	0.12414
347.00	25.41	0.03313	-36.3	320.5	0.12134
338.00	23.59	0.03361	-37.8	320.9	0.11566
330.50	23.08	0.03402	-39.2	321.0	0.11574
322.00	21.62	0.03447	-40.6	321.5	0.11127
314.50	18.06	0.03480	-42.0	321.6	0.09516

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
307.00	17.01	0.03513	-43.2	322.2	0.09180
299.00	18.58	0.03552	-44.6	322.7	0.10295
291.00	15.82	0.03585	-45.7	323.7	0.09006
283.00	12.98	0.03614	-47.3	324.0	0.07603
275.00	19.47	0.03658	-48.7	324.5	0.11730
267.00	13.57	0.03690	-50.4	324.8	0.08420
260.00	13.74	0.03719	-51.8	325.2	0.08756
252.00	11.01	0.03746	-53.5	325.7	0.07242
244.00	8.98	0.03769	-54.4	327.3	0.06097
237.00	8.94	0.03789	-55.2	328.9	0.06247
230.00	8.89	0.03810	-56.1	330.3	0.06402
223.50	7.34	0.03827	-56.9	331.7	0.05445
217.00	5.34	0.03839	-58.0	333.0	0.04079
210.00	5.34	0.03853	-59.2	334.1	0.04213
203.00	5.83	0.03869	-60.3	335.6	0.04760
197.50	8.29	0.03887	-61.2	336.9	0.06954
190.00	9.81	0.03917	-61.5	340.2	0.08554
184.00	12.24	0.03948	-61.2	343.7	0.11020
178.00	16.07	0.03990	-61.5	346.6	0.14957
173.00	23.07	0.04042	-61.7	349.1	0.22093
167.50	36.20	0.04134	-61.7	352.3	0.35810
162.80	56.81	0.04262	-61.7	355.2	0.57826
157.50	81.56	0.04475	-61.7	358.6	0.85808
153.00	113.54	0.04735	-61.7	361.6	1.22963
148.00	97.57	0.04991	-61.5	365.4	1.09235
144.00	114.64	0.05239	-59.7	371.4	1.31918
140.00	83.73	0.05425	-58.6	376.3	0.99097
136.00	69.66	0.05584	-59.0	378.7	0.84871
132.00	55.79	0.05716	-59.2	381.5	0.70031
129.00	53.62	0.05813	-59.5	383.6	0.68871
125.00	53.10	0.05945	-59.7	386.7	0.70384
121.60	115.40	0.06196	-59.7	389.8	1.57247
118.00	90.90	0.06412	-59.5	393.5	1.27643
115.00	74.99	0.06564	-59.2	396.8	1.08044
112.00	73.70	0.06718	-58.6	401.1	1.09037
109.00	88.35	0.06908	-57.8	405.8	1.34304
106.00	97.94	0.07123	-57.4	409.8	1.53108
103.00	99.43	0.07349	-57.1	413.5	1.59953
100.00	97.23	0.07576	-56.9	417.4	1.61115
97.80	89.40	0.07733	-57.4	419.3	1.51467
95.20	70.45	0.07883	-58.0	421.3	1.22621
92.70	66.87	0.08023	-58.0	424.6	1.19527
90.30	85.78	0.08201	-58.0	427.8	1.57412
87.70	74.16	0.08372	-58.0	431.3	1.40118
85.50	63.65	0.08500	-57.8	434.9	1.23345
83.20	52.23	0.08612	-57.6	438.7	1.04020
81.20	49.23	0.08707	-58.0	440.9	1.00455
79.20	57.25	0.08819	-58.2	443.7	1.19777
77.10	48.15	0.08921	-58.8	445.8	1.03492
75.10	43.23	0.09011	-58.8	449.1	0.95386
73.20	49.94	0.09112	-58.2	453.8	1.13046
71.40	57.01	0.09224	-57.8	457.9	1.32316
69.60	68.86	0.09363	-57.8	461.2	1.63940
67.70	73.72	0.09524	-58.0	464.4	1.80428
66.00	75.52	0.09676	-58.2	467.4	1.89593

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
64.30	81.17	0.09843	-58.6	470.0	2.09170
62.80	83.91	0.09999	-58.0	474.5	2.21388
61.00	134.63	0.10309	-57.6	479.4	3.65710
59.60	144.95	0.10574	-57.6	482.6	4.02978
58.20	136.77	0.10831	-57.6	485.9	3.89395
56.60	141.29	0.11142	-57.8	489.3	4.13639
55.30	138.25	0.11396	-57.8	492.6	4.14261
53.80	133.26	0.11685	-57.8	496.4	4.10427
52.50	132.16	0.11940	-57.6	500.4	4.17119
51.00	134.27	0.12247	-57.4	505.0	4.36233
49.80	137.03	0.12505	-57.1	509.0	4.55937
48.50	133.86	0.12785	-57.1	512.8	4.57347
47.30	128.61	0.13039	-57.4	516.0	4.50552
46.00	126.12	0.13317	-57.4	520.2	4.54315
44.70	122.16	0.13593	-57.6	523.9	4.52842
43.80	118.36	0.13783	-57.8	526.5	4.47778
42.80	119.87	0.14002	-57.4	531.0	4.64091
41.70	122.83	0.14254	-56.9	536.0	4.88098
40.50	124.98	0.14542	-56.5	541.5	5.11341
39.50	128.25	0.14796	-55.9	546.8	5.38021
38.50	123.04	0.15045	-55.8	551.3	5.29562
37.60	126.50	0.15281	-55.4	556.1	5.57482
36.70	134.06	0.15537	-55.2	560.4	6.05292
35.70	139.82	0.15842	-54.8	565.9	6.48978
34.80	140.30	0.16125	-55.0	569.5	6.68051
33.90	142.33	0.16420	-55.2	573.3	6.95714
33.00	143.23	0.16724	-55.4	577.2	7.19169
32.20	143.62	0.17002	-55.4	581.3	7.39051
31.40	144.87	0.17290	-55.4	585.5	7.64510
30.60	146.09	0.17588	-54.8	591.4	7.91074
29.70	145.71	0.17931	-53.8	599.0	8.12942
29.00	145.71	0.18206	-53.1	605.1	8.32565
28.20	144.46	0.18525	-52.4	612.0	8.48802
27.50	141.94	0.18806	-52.0	617.4	8.55269
26.80	138.17	0.19088	-52.0	622.0	8.54306
26.10	133.26	0.19366	-51.5	628.2	8.46035
25.40	131.79	0.19649	-51.1	634.1	8.59753
24.80	131.52	0.19897	-51.0	639.0	8.78737
24.10	130.01	0.20191	-50.8	644.7	8.93879
23.50	128.65	0.20447	-50.6	649.9	9.07109
22.80	125.86	0.20748	-50.6	655.5	9.14676
22.20	124.96	0.21011	-51.1	659.0	9.32711
21.60	136.15	0.21305	-51.3	663.6	10.44471
21.10	112.48	0.21513	-51.5	667.6	8.83305
20.50	85.01	0.21707	-51.7	672.6	6.87123
20.00	83.56	0.21870	-51.5	677.9	6.92267
19.95	105.13	0.21891	-51.8	677.3	8.73219
18.90	130.97	0.22450	-51.7	688.4	11.48261
18.35	123.72	0.22738	-51.3	695.3	11.17184
17.80	94.59	0.22965	-50.8	703.0	8.80562
17.40	98.27	0.23142	-50.4	708.7	9.35846
16.90	95.12	0.23361	-49.9	716.3	9.32613
16.40	78.49	0.23547	-49.8	723.0	7.93003
15.95	94.75	0.23755	-49.6	729.3	9.84364
15.50	111.62	0.24007	-49.6	735.3	11.93283

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
15.10	100.13	0.24214	-48.7	743.6	10.98781
14.60	95.55	0.24468	-47.9	753.5	10.84395
14.20	99.52	0.24686	-47.1	762.3	11.61340
13.80	99.19	0.24910	-46.6	770.2	11.91058
13.40	140.00	0.25235	-46.5	777.2	17.31185
13.10	209.17	0.25609	-46.6	781.7	26.45739
12.70	137.97	0.25947	-46.2	790.3	18.00093
12.35	93.84	0.26154	-44.4	802.6	12.59094
12.00	74.03	0.26322	-43.2	813.6	10.22277
11.65	71.19	0.26488	-43.8	818.3	10.12614
11.30	67.58	0.26651	-44.4	823.3	9.90999
11.00	69.08	0.26798	-44.0	831.3	10.40624
10.70	76.77	0.26966	-43.5	839.5	11.88857
10.40	79.14	0.27143	-41.9	852.4	12.60891
10.13	78.69	0.27307	-40.5	864.2	12.87117
9.83	77.37	0.27490	-40.6	871.2	13.04237
9.60	76.59	0.27633	-40.9	876.0	13.21919
9.42	74.93	0.27745	-40.6	881.8	13.18058
9.27	72.49	0.27837	-40.2	887.5	12.95700
9.13	70.44	0.27922	-39.6	893.6	12.78375
9.02	68.22	0.27987	-39.2	898.3	12.53151
8.93	66.72	0.28040	-39.0	901.4	12.38073
8.85	64.92	0.28086	-38.8	904.8	12.15415
8.80	62.94	0.28114	-38.8	906.3	11.85138
8.75	61.59	0.28142	-38.6	908.3	11.66301
8.70	61.14	0.28170	-38.2	911.4	11.64418
8.65	61.14	0.28198	-37.6	915.0	11.71149

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
762.00					
756.00	56.76	0.00035	1.8	297.8	0.12442
745.00	51.32	0.00095	1.5	298.7	0.11414
736.00	50.41	0.00143	1.1	299.3	0.11350
726.00	51.85	0.00199	0.9	300.3	0.11833
718.00	54.89	0.00247	0.9	301.3	0.12667
709.00	57.46	0.00304	0.9	302.4	0.13428
700.00	51.59	0.00356	0.9	303.5	0.12212
690.00	46.53	0.00409	-0.0	303.7	0.11174
680.00	41.96	0.00458	-0.4	304.5	0.10225
672.00	38.45	0.00494	-0.7	305.2	0.09480
663.00	39.64	0.00536	-1.1	305.9	0.09907
655.00	42.09	0.00576	-1.7	306.4	0.10648
647.00	39.35	0.00614	-2.2	306.8	0.10078
638.00	36.18	0.00654	-2.9	307.3	0.09396
629.00	35.62	0.00694	-3.7	307.7	0.09385
621.00	35.18	0.00730	-4.3	308.0	0.09386
612.00	34.61	0.00770	-5.1	308.4	0.09371
604.00	33.81	0.00805	-6.0	308.5	0.09275
596.00	33.40	0.00840	-6.8	308.8	0.09286
588.00	33.47	0.00876	-7.6	309.1	0.09432
580.00	32.77	0.00911	-8.3	309.4	0.09362
571.50	32.75	0.00949	-9.1	309.8	0.09496
563.00	32.74	0.00988	-10.0	310.1	0.09635
555.00	32.31	0.01025	-10.6	310.7	0.09646
548.00	31.11	0.01056	-11.2	311.0	0.09408
539.00	30.24	0.01095	-12.1	311.5	0.09296
530.00	30.24	0.01136	-13.0	311.9	0.09454
522.00	30.56	0.01172	-13.7	312.4	0.09702
515.00	29.18	0.01203	-14.7	312.4	0.09390
507.00	28.74	0.01239	-15.4	312.9	0.09394
498.00	29.17	0.01280	-16.2	313.6	0.09705
490.00	30.00	0.01318	-16.9	314.2	0.10146
483.00	30.09	0.01353	-17.7	314.5	0.10323
475.00	29.65	0.01392	-18.4	315.1	0.10343
468.00	29.29	0.01426	-19.5	315.1	0.10372
460.00	28.87	0.01465	-20.5	315.4	0.10398
453.00	28.43	0.01500	-21.2	315.9	0.10398
446.00	27.64	0.01534	-22.1	316.2	0.10269
439.00	28.47	0.01569	-23.1	316.4	0.10744
432.00	28.88	0.01606	-23.9	316.8	0.11076
425.00	29.03	0.01643	-23.9	318.2	0.11320
418.00	28.26	0.01681	-25.2	318.2	0.11203
411.00	27.48	0.01717	-26.2	318.4	0.11080
404.00	26.70	0.01753	-27.3	318.5	0.10952
398.00	26.27	0.01784	-28.3	318.6	0.10937
342.00	25.76	0.02093	-29.5	331.1	0.12481
386.00	24.97	0.01854	-30.5	318.5	0.10720
380.00	24.25	0.01884	-31.5	318.6	0.10574
373.00	23.79	0.01919	-32.4	319.1	0.10567
367.00	23.72	0.01950	-33.5	319.2	0.10711
361.00	23.33	0.01980	-34.5	319.3	0.10708
355.00	22.17	0.02009	-35.3	319.7	0.10346
349.00	21.31	0.02038	-36.4	319.8	0.10117
343.00	20.45	0.02066	-37.5	319.9	0.09879
337.00	19.16	0.02093	-38.3	320.4	0.09422

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
331.50	18.26	0.02116	-39.2	320.8	0.09125
326.00	17.00	0.02139	-40.2	320.9	0.08643
320.00	16.13	0.02162	-40.9	321.7	0.08354
315.00	14.28	0.02180	-41.8	321.9	0.07511
309.00	12.93	0.02200	-42.6	322.4	0.06933
303.00	12.86	0.02220	-43.7	322.8	0.07031
298.00	14.80	0.02239	-44.6	323.0	0.08232
293.00	11.62	0.02255	-45.4	323.5	0.06573
287.50	11.63	0.02272	-46.5	323.7	0.06703
282.00	11.64	0.02290	-47.6	323.8	0.06837
277.00	12.07	0.02307	-48.4	324.3	0.07219
271.00	12.11	0.02328	-49.4	324.9	0.07405
266.00	12.16	0.02346	-50.4	325.2	0.07574
261.00	12.16	0.02364	-51.8	324.9	0.07720
256.00	12.17	0.02383	-52.9	325.1	0.07874
250.00	12.21	0.02405	-53.3	326.7	0.08092
245.00	12.21	0.02425	-53.8	327.8	0.08257
240.00	11.42	0.02443	-54.8	328.3	0.07881
235.50	11.03	0.02460	-55.2	329.5	0.07759
231.00	11.47	0.02477	-55.6	330.7	0.08230
226.50	11.92	0.02496	-55.8	332.3	0.08721
221.50	12.33	0.02518	-56.5	333.2	0.09226
217.00	11.94	0.02537	-57.1	334.2	0.09117
212.00	11.95	0.02559	-57.8	335.5	0.09342
208.00	12.89	0.02578	-58.4	336.4	0.10268
203.50	15.31	0.02605	-59.5	336.8	0.12470
199.50	18.53	0.02634	-61.0	336.3	0.15392
195.00	22.95	0.02675	-61.5	337.7	0.19506
191.00	26.62	0.02719	-61.7	339.4	0.23096
187.00	33.10	0.02774	-61.9	341.0	0.29328
183.00	41.11	0.02844	-62.2	342.8	0.37227
179.00	52.81	0.02936	-62.2	344.9	0.48889
175.50	59.71	0.03030	-62.2	346.9	0.56373
172.00	65.15	0.03133	-62.4	348.5	0.62764
168.00	74.44	0.03271	-62.6	350.5	0.73421
164.00	86.60	0.03436	-62.4	353.3	0.87499
160.70	94.84	0.03588	-62.4	355.3	0.97792
157.50	99.02	0.03746	-61.9	358.2	1.04179
153.70	99.49	0.03938	-61.5	361.5	1.07257
150.00	97.27	0.04125	-61.0	364.8	1.07448
146.50	92.57	0.04297	-60.1	368.8	1.04701
143.00	85.86	0.04461	-59.5	372.5	0.99487
140.00	78.07	0.04592	-59.5	374.8	0.92407
137.00	75.10	0.04720	-59.9	376.3	0.90833
133.50	78.99	0.04882	-60.3	378.3	0.98044
130.00	82.54	0.05055	-60.6	380.8	1.05212
127.00	90.16	0.05221	-60.1	384.2	1.17639
124.00	105.09	0.05419	-59.7	387.6	1.40430
120.70	119.83	0.05675	-59.2	391.4	1.64500
117.50	128.56	0.05947	-58.8	395.2	1.81301
114.30	133.79	0.06239	-58.8	398.3	1.93954
111.00	132.95	0.06547	-58.6	402.1	1.98464
108.40	119.08	0.06769	-58.8	404.4	1.82024
106.00	104.46	0.06954	-58.8	407.0	1.63285
103.00	85.03	0.07147	-58.8	410.4	1.36798

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
100.50	75.71	0.07294	-58.8	413.3	1.24835
97.80	72.48	0.07449	-58.2	417.7	1.22793
95.20	70.79	0.07600	-57.1	423.0	1.23208
92.80	70.40	0.07742	-56.7	426.8	1.25709
90.00	69.14	0.07909	-56.9	430.2	1.27288
87.80	65.57	0.08037	-57.6	432.0	1.23756
85.20	60.95	0.08182	-57.8	435.3	1.18546
83.00	59.64	0.08305	-58.0	438.2	1.19065
80.70	65.14	0.08450	-58.6	440.4	1.33751
78.50	72.28	0.08608	-58.8	443.5	1.52574
76.00	83.41	0.08821	-58.4	448.5	1.81863
73.90	94.38	0.09029	-58.4	452.1	2.11629
70.70	110.30	0.09415	-58.2	458.3	2.58507
69.60	129.08	0.09575	-58.0	460.8	3.07299
67.50	147.97	0.09933	-58.0	464.8	3.63249
65.50	151.03	0.10291	-58.0	468.9	3.82083
63.50	140.90	0.10636	-58.0	473.0	3.67664
61.50	138.42	0.10986	-58.0	477.4	3.72942
59.60	139.27	0.11331	-58.0	481.7	3.87200
57.70	139.82	0.11689	-58.0	486.1	4.01534
55.80	144.51	0.12071	-58.2	490.3	4.29119
54.00	141.53	0.12437	-58.4	494.5	4.34290
52.30	139.75	0.12790	-58.0	500.0	4.42775
50.60	130.46	0.13131	-57.4	506.2	4.27203
49.10	123.16	0.13423	-57.1	511.0	4.15633
47.50	125.75	0.13752	-57.1	515.9	4.38652
46.00	127.94	0.14076	-57.1	520.6	4.60849
44.40	131.74	0.14445	-56.9	526.4	4.91666
42.80	137.93	0.14844	-56.9	532.0	5.34007
41.30	145.17	0.15253	-56.7	537.9	5.82449
39.70	161.36	0.15757	-56.5	544.5	6.73467
38.30	189.99	0.16295	-55.2	553.7	8.21986
36.80	187.44	0.16886	-54.6	561.5	8.43979
35.40	132.89	0.17293	-55.0	566.7	6.22010
33.90	123.43	0.17715	-55.2	573.3	6.03330
32.50	110.27	0.18082	-54.6	581.8	5.62213
31.20	99.42	0.18403	-53.7	591.1	5.28016
29.70	98.69	0.18787	-52.9	601.5	5.50596
28.40	101.52	0.19146	-52.2	611.3	5.92340
26.90	96.23	0.19558	-52.0	621.3	5.92741
25.60	89.27	0.19907	-51.8	630.7	5.77830
24.40	103.37	0.20299	-52.9	636.3	7.01985
23.20	121.40	0.20782	-53.5	643.9	8.67066
22.20	109.72	0.21164	-53.3	652.6	8.18937
21.10	115.03	0.21625	-52.9	663.2	9.03330
20.15	115.58	0.22046	-51.7	675.9	9.50425
19.30	111.80	0.22426	-50.3	688.6	9.59819
18.50	95.52	0.22745	-49.6	699.1	8.55550
17.80	95.90	0.23038	-49.2	707.9	8.92740
17.05	95.90	0.23363	-48.6	718.8	9.32010
16.40	93.40	0.23650	-47.9	728.9	9.43731
15.80	90.99	0.23918	-47.3	738.9	9.54245
15.20	90.57	0.24195	-47.1	747.6	9.87361
14.65	89.88	0.24456	-46.9	756.1	10.16618
14.10	87.80	0.24722	-46.8	764.9	10.31820

Table 7 (continued)

WASHINGTON,D.C. 5/2/69 1550Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
13.60	86.04	0.24967	-46.6	773.4	10.48314
13.10	83.96	0.25215	-46.3	782.8	10.62036
12.65	80.85	0.25438	-45.7	792.9	10.58987
12.20	79.70	0.25666	-44.9	803.8	10.82501
11.80	79.25	0.25875	-44.0	814.8	11.12814
11.40	80.23	0.26093	-43.1	826.1	11.66127
11.10	76.36	0.26254	-42.0	836.2	11.39906
10.80	75.29	0.26417	-41.3	845.4	11.55212
10.50	75.25	0.26584	-40.6	854.9	11.87567
10.20	76.05	0.26758	-40.2	863.6	12.35404
9.95	72.53	0.26900	-39.6	871.9	12.07793
9.75	70.48	0.27013	-39.5	877.5	11.97871
9.53	68.55	0.27137	-39.5	883.2	11.91932
9.34	65.26	0.27241	-39.6	887.8	11.57858
9.17	62.99	0.27332	-39.9	891.4	11.38266
9.03	62.05	0.27407	-39.6	896.4	11.38614
8.90	60.18	0.27476	-39.6	900.1	11.20337
8.78	62.14	0.27543	-38.9	906.3	11.72733
8.71	60.95	0.27582	-37.6	913.2	11.59452
8.67	60.49	0.27603	-37.4	915.5	11.56149
8.64	60.49	0.27620	-37.2	917.0	11.60163

Table 8

WASHINGTON,D.C. 6/5/69 1329Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1013.10	17.2	13.8	9.74695	289.3		
1000.00	17.1	16.9	12.09112	290.2	0.14595855	0.14595855
980.00	16.9	12.4	9.17867	291.7	0.21703863	0.36299718
963.00	16.7	9.8	7.84114	293.0	0.14762073	0.51061791
948.00	16.4	8.6	7.33838	294.0	0.11616979	0.62678770
930.00	15.7	6.4	6.40852	294.9	0.12624708	0.75303478
919.00	14.9	6.4	6.48603	295.1	0.07236738	0.82540216
900.00	13.9	6.4	6.62441	295.9	0.12709103	0.95249319
893.00	12.7	7.5	7.20402	295.2	0.04938726	1.00188045
880.00	12.5	8.6	7.91265	296.3	0.10026364	1.10214409
868.00	12.2	11.1	9.49189	297.1	0.10655844	1.20870253
855.00	10.5	11.1	9.63845	296.6	0.12688491	1.33558744
842.00	9.4	6.4	7.08593	296.8	0.11092698	1.44651442
830.00	8.4	4.3	6.22527	296.9	0.08149714	1.52801156
818.00	7.6	1.6	5.17959	297.4	0.06982570	1.59783726
807.00	6.6	0.7	4.93431	297.5	0.05676171	1.65459897
793.00	5.9	-0.1	4.77502	298.2	0.06935239	1.72395136
782.00	4.7	-0.9	4.53122	298.1	0.05222888	1.77618024
770.00	3.8	-0.9	4.60235	298.4	0.05591982	1.83210006
759.00	2.8	-0.9	4.66956	298.5	0.05203624	1.88413630
748.00	1.8	-0.9	4.73875	298.7	0.05280172	1.93693801
735.50	0.7	-3.2	3.99070	299.0	0.05567250	1.99261052
722.00	-0.1	-3.2	4.06581	299.7	0.05549123	2.04810175
711.00	-0.8	-5.2	3.46732	300.2	0.04227776	2.09037951
700.00	-1.5	-17.5	1.16496	300.8	0.02599752	2.11637703
689.50	-2.0	-19.0	1.02925	301.5	0.01175469	2.12813172
679.00	-2.6	-13.3	1.76514	302.2	0.01496990	2.14310163
668.00	-2.8	-7.7	2.97905	303.4	0.02662555	2.16972717
657.00	-3.5	-9.9	2.48792	304.1	0.03068197	2.20040914
647.00	-4.4	-11.4	2.20132	304.3	0.02392469	2.22433383
636.00	-4.8	-7.7	3.12970	305.4	0.02991898	2.25425281
626.00	-5.0	-7.7	3.17995	306.6	0.03219205	2.28644486
615.00	-5.1	-7.1	3.40944	308.0	0.03698123	2.32342609
606.00	-5.2	-6.5	3.64879	309.2	0.03241020	2.35583629
596.00	-5.3	-5.9	3.91719	310.5	0.03860190	2.39443820
587.00	-6.5	-5.9	3.97763	310.5	0.03625172	2.43068991
577.00	-7.3	-5.9	4.04702	311.1	0.04094207	2.47163199
568.00	-8.0	-7.1	3.69323	311.7	0.03554195	2.50717394
558.00	-8.7	-9.4	3.07479	312.4	0.03453074	2.54170468
549.00	-9.5	-9.4	3.12545	312.9	0.02847053	2.57017520
539.00	-10.5	-9.4	3.18374	313.4	0.03218975	2.60236495
529.00	-11.0	-9.9	3.09290	314.4	0.03202367	2.63438862
518.00	-11.8	-11.9	2.63273	315.4	0.03213365	2.66652226
507.50	-12.6	-12.4	2.57302	316.3	0.02788795	2.69441022
497.00	-13.3	-13.8	2.31632	317.3	0.02619288	2.72060309
487.00	-14.2	-14.2	2.26989	318.0	0.02339903	2.74400212
477.00	-15.2	-14.7	2.22679	318.7	0.02294227	2.76694440
467.00	-16.2	-16.3	1.95020	319.4	0.02131118	2.78825558
457.00	-17.4	-16.3	1.99301	319.9	0.02011843	2.80837401
448.00	-18.3	-17.1	1.88897	320.6	0.01782542	2.82619943
440.00	-19.4	-18.2	1.72907	320.8	0.01476753	2.84096695
433.00	-20.2	-19.3	1.58628	321.4	0.01184056	2.85280752
426.00	-21.2	-19.7	1.55974	321.6	0.01123581	2.86404333
420.00	-22.1	-20.7	1.43558	321.7	0.00916937	2.87321270
415.00	-22.6	-21.9	1.28322	322.2	0.00693572	2.88014842

Table 8 (continued)

WASHINGTON,D.C. 6/5/69 1329Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
409.50	-23.2	-22.9	1.18918	322.6	0.00693785	2.88708627
404.00	-23.8	-23.2	1.17074	323.0	0.00662222	2.89370850
400.00	-24.7	-22.9	1.21748	322.8	0.00487391	2.89858241
394.00	-25.5	-23.5	1.16636	323.1	0.00729746	2.90587987
389.00	-26.2	-24.0	1.11614	323.5	0.00582269	2.91170257
383.00	-26.8	-26.4	0.89001	324.1	0.00614127	2.91784383
378.00	-27.5	-27.7	0.79518	324.4	0.00429895	2.92214278
373.00	-28.4	-28.6	0.73151	324.4	0.00389461	2.92603739
368.00	-29.2	-29.5	0.67520	324.6	0.00358855	2.92962594
362.00	-30.1	-32.0	0.52708	324.9	0.00368043	2.93330637
357.00	-30.8	-32.4	0.51257	325.3	0.00265216	2.93595853
352.00	-31.3	-33.4	0.46939	325.9	0.00250499	2.93846352
347.00	-31.6	-35.4	0.38462	326.9	0.00217858	2.94064210
342.00	-32.1	-38.3	0.28298	327.5	0.00170304	2.94234514
337.00	-32.4	-39.3	0.25544	328.5	0.00137350	2.94371865
331.00	-32.9	-39.9	0.24366	329.5	0.00152784	2.94524649
326.00	-34.2	-40.1	0.24344	329.2	0.00124260	2.94648909
320.00	-35.2	-40.8	0.22906	329.6	0.00144644	2.94793553
315.00	-35.7	-42.1	0.19950	330.3	0.00109328	2.94902881
310.00	-37.0	-42.2	0.19970	330.0	0.00101837	2.95004718
305.00	-38.0	-42.2	0.20297	330.1	0.00102721	2.95107439
300.00	-38.7	-42.4	0.20329	330.7	0.00103637	2.95211076
295.00	-39.6	-42.6	0.20066	331.0	0.00103048	2.95314125
290.00	-40.7	-43.5	0.18424	331.1	0.00098190	2.95412315
285.00	-41.6	-44.3	0.16966	331.4	0.00090281	2.95502596
280.00	-42.5	-43.5	0.19082	331.8	0.00091960	2.95594556
275.00	-43.5	-43.4	0.19713	332.1	0.00098967	2.95693523
270.00	-44.4	-44.1	0.18422	332.5	0.00097283	2.95790806
265.00	-45.3	-44.9	0.17016	333.1	0.00090404	2.95881210
260.00	-46.3	-45.9	0.15547	333.4	0.00083069	2.95964279
255.50	-46.9	-47.3	0.13323	334.1	0.00066283	2.96030562
251.00	-48.0	-49.3	0.10668	334.3	0.00055082	2.96085644
246.00	-49.2	-49.9	0.10115	334.4	0.00053020	2.96138664
241.00	-50.1	-51.0	0.08944	335.0	0.00048622	2.96187286
237.00	-51.4	-52.4	0.07641	334.6	0.00033849	2.96221135
232.00	-52.5	-53.6	0.06740	334.9	0.00036687	2.96257822
227.50	-53.5	-54.6	0.06020	335.3	0.00029297	2.96287118
223.00	-54.5	-55.5	0.05452	335.7	0.00026339	2.96313457
218.50	-55.5	-55.4	0.05685	336.1	0.00025569	2.96339026
214.00	-56.4	-56.7	0.04895	336.8	0.00024290	2.96363316
209.50	-57.7	-57.7	0.04365	336.8	0.00021259	2.96384575
205.00	-58.5	-58.0	0.04280	337.5	0.00019848	2.96404423
200.50	-59.9	-58.6	0.04031	337.5	0.00019080	2.96423503
197.00	-60.6	-59.4	0.03705	338.0	0.00013814	2.96437318
193.00	-61.6	-60.1	0.03419	338.5	0.00014540	2.96451858
189.00	-61.6	-61.2	0.03006	340.5	0.00013113	2.96464971
184.80	-61.6	-63.6	0.02223	342.7	0.00011205	2.96476176
180.00	-61.9	-65.2	0.01807	344.9	0.00009870	2.96486046
176.00	-62.1	-66.7	0.01507	346.7	0.00006763	2.96492809
172.00	-60.6	-71.6	0.00738	351.4	0.00004581	2.96497390
167.50	-59.5	-76.0	0.00385	356.1	0.00002578	2.96499968
163.00	-58.1	-77.5	0.00311	361.1	0.00001597	2.96501566
159.50	-57.0	-76.9	0.00355	365.2	0.00001189	2.96502755
156.00	-56.4	-78.0	0.00301	368.6	0.00001171	2.96503926
152.30	-55.9	-78.4	0.00291	371.9	0.00001118	2.96505044

Table 8 (continued)

WASHINGTON,D.C. 6/5/69 1329Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
149.00	-56.1	-79.1	0.00266	373.9	0.00000938	2.96505982
145.60	-56.4	-79.4	0.00257	376.0	0.00000907	2.96506889
142.00	-56.4	-79.9	0.00243	378.7	0.00000917	2.96507806
138.50	-56.8	-79.4	0.00270	380.6	0.00000915	2.96508721
135.00	-57.0	-79.7	0.00264	383.0	0.00000954	2.96509676
132.00	-57.2	-79.9	0.00264	385.1	0.00000809	2.96510485
129.00	-57.2	-80.4	0.00249	387.7	0.00000785	2.96511270
125.50	-57.7	-80.6	0.00247	389.9	0.00000885	2.96512155
122.00	-57.7	-80.7	0.00248	393.1	0.00000883	2.96513038
119.00	-57.7	-80.6	0.00260	395.9	0.00000778	2.96513815
116.00	-57.7	-80.6	0.00267	398.8	0.00000807	2.96514622
113.00	-57.7	-80.5	0.00277	401.8	0.00000833	2.96515455
110.00	-57.4	-80.3	0.00295	405.3	0.00000876	2.96516332
107.20	-57.2	-80.6	0.00289	408.7	0.00000835	2.96517166
104.50	-57.2	-81.0	0.00276	411.7	0.00000778	2.96517944
101.80	-57.0	-81.4	0.00266	415.2	0.00000746	2.96518690
99.30	-57.0	-81.2	0.00280	418.2	0.00000696	2.96519387
96.70	-56.8	-82.6	0.00229	421.8	0.00000675	2.96520062
94.00	-56.8	-81.7	0.00271	425.2	0.00000689	2.96520751
91.40	-56.8	-81.7	0.00279	428.6	0.00000729	2.96521480
88.90	-56.8	-81.9	0.00279	432.0	0.00000712	2.96522192
86.40	-57.0	-82.1	0.00277	435.1	0.00000710	2.96522902
83.80	-57.7	-81.6	0.00312	437.6	0.00000781	2.96523683
81.30	-57.4	-81.6	0.00321	441.9	0.00000807	2.96524490
78.90	-55.9	-82.6	0.00281	448.8	0.00000737	2.96525227
76.60	-55.5	-82.6	0.00286	453.5	0.00000665	2.96525892
74.10	-55.5	-82.6	0.00299	457.8	0.00000746	2.96526639
71.90	-55.7	-82.6	0.00308	461.3	0.00000682	2.96527321
69.70	-56.1	-82.6	0.00314	464.5	0.00000699	2.96528019
67.50	-56.1	-82.7	0.00320	468.8	0.00000712	2.96528731
65.20	-55.7	-82.8	0.00327	474.4	0.00000760	2.96529491
63.20	-55.7	-82.7	0.00342	478.6	0.00000683	2.96530173
61.00	-55.9	-83.3	0.00323	483.0	0.00000747	2.96530920
59.20	-56.1	-82.8	0.00360	486.7	0.00000628	2.96531548
57.10	-56.6	-83.0	0.00364	490.8	0.00000776	2.96532325
55.30	-56.4	-83.3	0.00352	495.8	0.00000658	2.96532982
53.40	-56.1	-83.6	0.00351	501.2	0.00000681	2.96533664
51.70	-56.1	-84.0	0.00339	505.9	0.00000598	2.96534261
49.80	-55.9	-84.0	0.00347	511.8	0.00000664	2.96534926
48.10	-55.5	-84.3	0.00345	517.9	0.00000600	2.96535526
46.30	-55.3	-84.6	0.00339	524.1	0.00000628	2.96536154
44.60	-55.1	-85.2	0.00319	530.2	0.00000571	2.96536724
42.80	-54.9	-85.4	0.00319	537.0	0.00000586	2.96537310
41.10	-54.1	-85.6	0.00323	545.3	0.00000556	2.96537866
39.50	-53.5	-85.7	0.00331	553.0	0.00000533	2.96538400
37.90	-52.9	-85.9	0.00330	561.1	0.00000539	2.96538939
36.30	-52.1	-86.2	0.00325	570.0	0.00000535	2.96539474
34.80	-51.6	-86.5	0.00324	578.4	0.00000497	2.96539971
33.20	-51.0	-86.8	0.00320	587.7	0.00000526	2.96540497
31.80	-50.3	-87.0	0.00324	597.0	0.00000460	2.96540957
30.30	-50.1	-87.3	0.00325	605.8	0.00000496	2.96541453
28.70	-49.5	-87.4	0.00332	616.7	0.00000536	2.96541989
27.00	-49.0	-87.6	0.00342	629.1	0.00000585	2.96542574
25.50	-49.2	-88.2	0.00329	638.9	0.00000514	2.96543088
24.00	-49.4	-88.5	0.00328	649.6	0.00000503	2.96543592

Table 8 (continued)

WASHINGTON,D.C. 6/5/69 1329Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
22.60	-49.0	-88.6	0.00343	661.9	0.00000479	2.96544070
21.60	-48.5	-88.6	0.00358	672.1	0.00000358	2.96544428
20.60	-49.0	-89.3	0.00334	679.6	0.00000353	2.96544781
19.60	-49.0	-89.5	0.00334	689.4	0.00000341	2.96545122
18.75	-47.6	-89.7	0.00338	702.5	0.00000291	2.96545413
17.90	-46.3	-90.2	0.00323	716.2	0.00000287	2.96545700
17.15	-46.3	-90.4	0.00325	725.0	0.00000248	2.96545948
16.40	-46.1	-90.8	0.00316	734.9	0.00000245	2.96546193
15.80	-45.6	-91.5	0.00287	744.4	0.00000185	2.96546378
15.20	-44.6	-91.9	0.00280	755.9	0.00000174	2.96546551
14.60	-44.6	-92.0	0.00283	764.6	0.00000172	2.96546724
14.10	-44.3	-91.8	0.00304	773.4	0.00000150	2.96546873
13.60	-43.2	-92.2	0.00297	785.2	0.00000153	2.96547027
13.10	-42.1	-92.5	0.00291	797.4	0.00000150	2.96547177
12.70	-41.1	-93.4	0.00254	807.7	0.00000111	2.96547288
12.20	-40.7	-92.6	0.00307	818.7	0.00000143	2.96547431
11.80	-40.8	-91.4	0.00396	826.0	0.00000144	2.96547574
11.40	-41.0	-92.0	0.00362	833.6	0.00000155	2.96547729
11.15	-40.7	-91.2	0.00432	840.0	0.00000101	2.96547830
10.80	-40.2	-91.0	0.00460	849.3	0.00000159	2.96547990
10.55	-39.9	-93.5	0.00299	856.1	0.00000097	2.96548087
10.25	-39.9	-92.5	0.00371	863.2	0.00000103	2.96548189
10.00	-39.9	-92.0	0.00412	869.3	0.00000100	2.96548289
9.80	-39.9	-92.7	0.00373	874.4	0.00000080	2.96548369

Table 9

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1000.00					
980.00	52.22	0.00083	16.9	291.7	0.08830
963.00	57.26	0.00162	16.7	293.0	0.09853
948.00	52.55	0.00228	16.4	294.0	0.09185
930.00	53.52	0.00309	15.7	294.9	0.09536
919.00	53.04	0.00358	14.9	295.1	0.09563
900.00	50.61	0.00442	13.9	295.9	0.09318
884.00	51.49	0.00515	13.0	296.4	0.09651
868.00	52.94	0.00591	11.7	296.7	0.10106
853.00	51.65	0.00662	10.7	297.0	0.10034
837.00	51.65	0.00739	9.7	297.7	0.10226
823.00	50.85	0.00807	9.1	298.5	0.10237
809.00	50.20	0.00875	7.8	298.5	0.10281
795.00	47.28	0.00940	6.6	298.7	0.09855
781.00	42.79	0.01000	5.5	299.0	0.09078
767.00	40.49	0.01058	4.3	299.3	0.08748
752.50	39.01	0.01117	3.1	299.6	0.08589
739.00	36.57	0.01169	1.5	299.5	0.08201
726.00	35.23	0.01219	0.7	300.1	0.08041
714.00	37.67	0.01268	-0.3	300.5	0.08742
702.50	35.81	0.01314	0.0	302.2	0.08447
690.00	31.56	0.01359	0.1	303.9	0.07580
678.00	26.86	0.01396	-0.7	304.5	0.06565
665.00	24.56	0.01434	-1.3	305.4	0.06119
654.00	23.67	0.01465	-2.2	306.0	0.05998
641.00	21.04	0.01498	-2.6	307.3	0.05439
630.00	21.59	0.01528	-2.8	308.5	0.05679
620.00	21.67	0.01555	-3.0	309.7	0.05791
607.50	20.69	0.01588	-3.8	310.6	0.05644
598.00	20.68	0.01614	-4.7	311.0	0.05730
587.00	18.77	0.01642	-5.6	311.5	0.05297
576.00	17.34	0.01667	-6.5	312.2	0.04987
566.00	17.45	0.01692	-7.2	313.0	0.05109
555.00	18.81	0.01721	-8.0	313.8	0.05615
545.00	19.29	0.01748	-8.7	314.5	0.05865
536.00	17.03	0.01771	-9.4	315.2	0.05264
526.50	17.10	0.01795	-10.3	315.8	0.05381
517.00	17.92	0.01821	-11.4	316.0	0.05743
506.50	18.54	0.01851	-24.7	301.7	0.06066
496.00	19.83	0.01884	-12.9	317.9	0.06626
487.00	19.94	0.01912	-13.7	318.7	0.06783
480.00	17.94	0.01933	-14.5	319.0	0.06192
471.00	15.43	0.01956	-15.6	319.4	0.05428
463.00	14.28	0.01975	-16.6	319.7	0.05112
454.00	13.31	0.01996	-17.8	320.0	0.04858
445.00	13.31	0.02017	-18.9	320.4	0.04957
436.00	13.06	0.02038	-20.0	320.9	0.04965
428.00	11.61	0.02055	-21.0	321.3	0.04497
419.00	11.11	0.02074	-22.1	321.9	0.04395
410.00	11.16	0.02093	-23.1	322.6	0.04510
402.00	11.15	0.02110	-24.1	323.1	0.04597
392.00	11.20	0.02132	-25.3	323.9	0.04734
383.50	10.69	0.02151	-26.6	324.3	0.04618
375.00	10.23	0.02169	-27.6	325.0	0.04520
367.00	11.27	0.02188	-28.8	325.4	0.05089
359.00	11.78	0.02209	-30.0	325.9	0.05436

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
351.00	12.90	0.02232	-31.2	326.4	0.06088
343.00	12.27	0.02254	-32.3	327.0	0.05930
335.00	10.71	0.02274	-33.5	327.6	0.05295
327.00	7.69	0.02289	-34.9	327.9	0.03895
319.00	7.69	0.02304	-36.3	328.3	0.03992
311.00	8.64	0.02321	-37.6	328.9	0.04605
304.00	12.09	0.02343	-38.9	329.2	0.06592
296.00	12.09	0.02368	-40.4	329.6	0.06765
289.00	11.09	0.02389	-41.5	330.3	0.06357
282.00	8.63	0.02406	-42.5	331.1	0.05068
275.00	5.62	0.02417	-43.6	331.9	0.03385
268.00	4.59	0.02426	-44.8	332.7	0.02836
261.00	4.58	0.02436	-46.3	333.1	0.02910
254.00	6.10	0.02449	-47.8	333.4	0.03978
247.00	4.60	0.02459	-49.2	334.0	0.03087
240.00	3.17	0.02466	-50.5	334.8	0.02189
234.00	2.66	0.02472	-52.1	334.7	0.01881
228.00	3.76	0.02479	-53.5	335.1	0.02730
221.00	4.64	0.02491	-55.1	335.6	0.03476
215.00	3.19	0.02498	-56.8	335.7	0.02456
209.00	2.09	0.02502	-57.7	337.1	0.01653
203.00	1.01	0.02505	-58.5	338.5	0.00826
198.00	0.46	0.02505	-59.9	338.7	0.00385
192.00	2.64	0.02512	-60.9	340.2	0.02278
186.30	9.62	0.02535	-60.9	343.1	0.08561
181.00	30.88	0.02605	-60.9	345.9	0.28269
175.70	40.76	0.02701	-61.9	347.3	0.38438
170.00	59.90	0.02857	-61.6	351.0	0.58384
165.70	79.38	0.03017	-59.2	357.5	0.79377
161.00	85.34	0.03211	-57.4	363.5	0.87833
157.30	80.49	0.03359	-56.6	367.4	0.84788
153.00	76.64	0.03527	-56.1	371.1	0.83007
149.00	85.06	0.03705	-56.1	373.9	0.94593
146.00	87.83	0.03846	-56.4	375.7	0.99677
142.50	85.09	0.04009	-56.4	378.3	0.98945
139.00	81.79	0.04169	-56.4	381.0	0.97496
136.00	68.99	0.04288	-57.2	381.9	0.84054
132.50	53.14	0.04397	-57.4	384.3	0.66452
129.30	38.89	0.04473	-57.7	386.6	0.49843
126.00	33.65	0.04541	-57.4	389.9	0.44253
123.00	42.16	0.04621	-57.2	393.0	0.56799
120.00	56.43	0.04731	-57.2	395.8	0.77916
117.50	56.88	0.04826	-57.4	397.7	0.80209
114.50	56.48	0.04941	-57.7	400.3	0.81739
112.00	58.72	0.05044	-57.7	402.8	0.86876
109.00	69.71	0.05193	-57.7	406.0	1.05972
106.70	80.98	0.05330	-57.4	408.9	1.25758
104.00	85.13	0.05502	-58.1	410.6	1.35640
101.20	83.00	0.05681	-59.2	411.6	1.35905
99.20	79.01	0.05805	-59.7	413.1	1.31978
97.00	78.77	0.05945	-59.7	415.7	1.34567
94.80	77.87	0.06086	-59.5	418.9	1.36110
92.30	81.89	0.06259	-59.2	422.6	1.47020
90.20	84.87	0.06413	-58.5	426.7	1.55908
88.30	82.58	0.06552	-58.1	430.2	1.54973

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
86.20	76.03	0.06696	-58.1	433.2	1.46147
84.40	65.54	0.06805	-58.3	435.4	1.28675
82.50	52.87	0.06900	-58.1	438.7	1.06180
80.80	57.91	0.06995	-57.7	442.2	1.18758
79.00	71.46	0.07123	-57.4	445.5	1.49881
77.10	83.70	0.07283	-57.2	449.1	1.79893
75.20	91.37	0.07463	-57.0	452.7	2.01336
73.60	93.47	0.07622	-56.8	456.0	2.10444
72.00	99.96	0.07796	-56.6	459.3	2.30047
70.50	102.59	0.07966	-56.4	462.5	2.41121
68.90	100.70	0.08149	-56.6	465.1	2.42189
67.40	101.35	0.08325	-56.8	467.6	2.49167
65.90	104.91	0.08511	-57.0	470.1	2.63792
64.50	110.54	0.08699	-57.0	473.0	2.83969
63.00	116.39	0.08915	-57.0	476.2	3.06118
61.50	118.72	0.09141	-56.8	480.0	3.19861
60.00	122.66	0.09380	-56.1	484.8	3.38737
58.80	126.02	0.09581	-55.5	489.0	3.55115
57.50	126.96	0.09805	-55.5	492.2	3.65868
56.10	133.69	0.10065	-55.5	495.7	3.94882
54.90	126.61	0.10281	-55.3	499.2	3.82145
53.60	120.90	0.10510	-55.3	502.6	3.73763
52.30	122.00	0.10747	-55.1	506.7	3.86517
51.10	128.86	0.10983	-54.9	510.5	4.17843
50.00	134.74	0.11214	-54.9	513.7	4.46516
48.90	135.08	0.11452	-54.9	517.0	4.57728
47.80	134.29	0.11693	-55.1	519.8	4.65508
46.70	128.91	0.11930	-55.1	523.3	4.57388
45.70	127.72	0.12148	-55.1	526.6	4.63090
44.70	126.95	0.12370	-54.9	530.4	4.70609
43.60	128.61	0.12623	-54.9	534.2	4.88788
42.60	126.61	0.12855	-55.1	537.2	4.92469
41.60	127.99	0.13095	-54.7	541.9	5.09801
40.60	126.33	0.13338	-53.9	547.7	5.15580
39.70	122.58	0.13554	-53.7	551.7	5.11605
38.80	128.50	0.13787	-53.5	555.8	5.48787
37.90	129.56	0.14027	-53.3	560.1	5.66461
37.00	129.92	0.14274	-53.1	564.4	5.81811
36.20	130.73	0.14499	-52.9	568.5	5.98393
35.40	131.49	0.14731	-52.5	573.1	6.15483
34.60	131.85	0.14969	-52.9	575.9	6.31424
33.80	133.44	0.15216	-53.1	579.2	6.54164
33.00	134.67	0.15470	-53.1	583.2	6.76203
32.30	135.90	0.15700	-53.1	586.8	6.97173
31.50	137.17	0.15972	-52.5	592.6	7.21543
30.80	140.47	0.16221	-52.1	597.4	7.55694
30.20	142.92	0.16443	-52.1	600.8	7.84140
29.40	142.53	0.16745	-52.1	605.4	8.03294
28.70	140.11	0.17012	-52.1	609.6	8.08951
28.05	137.71	0.17261	-52.1	613.6	8.13519
27.40	136.87	0.17514	-51.8	618.8	8.27704
26.90	134.40	0.17710	-51.2	623.6	8.27901
26.20	137.27	0.17996	-50.3	631.0	8.68142
25.60	136.39	0.18245	-49.9	636.2	8.82780
25.00	135.18	0.18498	-49.7	641.0	8.95953

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
24.40	133.24	0.18754	-49.5	646.0	9.04803
23.90	133.59	0.18972	-49.2	650.9	9.26215
23.40	132.38	0.19193	-48.5	656.9	9.37416
22.80	131.24	0.19462	-48.1	662.8	9.53799
22.35	129.97	0.19667	-47.6	668.1	9.63592
21.80	129.16	0.19921	-47.4	673.4	9.81735
21.30	128.29	0.20156	-47.3	678.4	9.97997
20.80	127.07	0.20394	-47.6	682.0	10.12264
20.30	123.17	0.20631	-47.6	686.8	10.05407
19.90	123.17	0.20825	-47.4	691.2	10.25617
19.44	121.18	0.21048	-47.6	695.3	10.32917
19.00	119.58	0.21264	-47.8	699.3	10.42870
18.50	118.29	0.21513	-48.0	704.1	10.59451
18.00	119.21	0.21771	-47.4	711.3	10.97436
17.60	118.93	0.21982	-46.8	718.0	11.19688
17.20	119.94	0.22200	-46.3	724.4	11.55491
16.80	119.36	0.22422	-45.9	730.3	11.77243
16.40	117.88	0.22646	-46.4	733.8	11.91002
16.07	117.94	0.22835	-46.6	737.5	12.16140
15.70	118.03	0.23053	-46.4	743.0	12.45729
15.30	119.13	0.23295	-45.8	750.7	12.90172
14.95	116.97	0.23509	-44.6	759.5	12.96427
14.60	116.63	0.23727	-44.1	766.3	13.23723
14.30	116.63	0.23918	-44.4	769.7	13.51493
13.95	113.68	0.24141	-44.6	774.6	13.50259
13.60	109.00	0.24359	-44.8	779.7	13.28012
13.30	106.47	0.24547	-44.9	784.2	13.26519
13.00	105.39	0.24737	-44.9	789.3	13.43360
12.70	103.29	0.24927	-44.6	795.7	13.47709
12.40	102.43	0.25120	-44.3	802.3	13.68703
12.10	100.20	0.25314	-43.6	810.2	13.72114
11.80	97.88	0.25508	-42.9	818.8	13.74431
11.55	97.88	0.25674	-42.4	825.5	14.04180
11.30	95.14	0.25838	-41.9	832.4	13.95080
11.00	93.14	0.26036	-41.8	839.4	14.03063
10.70	92.34	0.26238	-41.6	846.6	14.30038
10.45	90.33	0.26406	-41.5	852.9	14.32281
10.20	87.89	0.26574	-41.3	859.4	14.27792
10.00	87.37	0.26711	-41.1	864.8	14.47695
9.75	87.05	0.26885	-41.0	871.7	14.79445
9.57	86.32	0.27012	-40.5	878.1	14.94621
9.40	83.74	0.27130	-40.2	883.7	14.76076
9.35	84.14	0.27166	-40.2	885.1	14.91096
9.32	81.18	0.27186	-39.9	887.0	14.43258

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
919.00					
900.50	70.99	0.00114	13.1	295.0	0.13063
893.00	76.21	0.00164	12.7	295.2	0.14142
880.00	77.35	0.00254	12.5	296.3	0.14564
868.00	74.08	0.00334	12.2	297.1	0.14143
855.00	70.30	0.00418	10.5	296.6	0.13624
842.00	67.38	0.00499	9.4	296.8	0.13260
830.00	67.13	0.00576	8.4	296.9	0.13402
818.00	67.62	0.00653	7.6	297.4	0.13697
807.00	67.55	0.00725	6.6	297.5	0.13871
793.00	64.95	0.00815	5.9	298.2	0.13571
782.00	61.04	0.00883	4.7	298.1	0.12934
770.00	60.11	0.00956	3.8	298.4	0.12936
759.00	58.11	0.01022	2.8	298.5	0.12687
748.00	53.84	0.01084	1.8	298.7	0.11926
735.50	51.14	0.01152	0.7	299.0	0.11522
722.00	48.97	0.01224	-0.1	299.7	0.11239
711.00	45.61	0.01279	-0.8	300.2	0.10629
700.00	43.15	0.01332	-1.5	300.8	0.10215
689.50	41.24	0.01381	-2.0	301.5	0.09911
679.00	37.57	0.01427	-2.6	302.2	0.09169
668.00	36.30	0.01474	-2.8	303.4	0.09005
657.00	34.74	0.01519	-3.5	304.1	0.08762
647.00	32.67	0.01559	-4.4	304.3	0.08367
636.00	30.44	0.01600	-4.8	305.4	0.07930
626.00	29.82	0.01637	-5.0	306.6	0.07892
615.00	29.50	0.01679	-5.1	308.0	0.07947
606.00	29.08	0.01712	-5.2	309.2	0.07951
596.00	26.54	0.01747	-5.3	310.5	0.07379
587.00	25.27	0.01778	-6.5	310.5	0.07132
577.00	24.83	0.01811	-7.3	311.1	0.07131
568.00	25.08	0.01842	-8.0	311.7	0.07317
558.00	26.16	0.01879	-8.7	312.4	0.07768
549.00	24.76	0.01911	-9.5	312.9	0.07473
539.00	24.67	0.01947	-10.5	313.4	0.07585
529.00	25.21	0.01984	-11.0	314.4	0.07897
518.00	25.20	0.02026	-11.8	315.4	0.08060
507.50	24.69	0.02066	-12.6	316.3	0.08062
497.00	23.44	0.02104	-13.3	317.3	0.07815
487.00	21.92	0.02140	-14.2	318.0	0.07460
477.00	20.70	0.02174	-15.2	318.7	0.07191
467.00	19.86	0.02207	-16.2	319.4	0.07048
457.00	19.16	0.02239	-17.4	319.9	0.06946
448.00	17.82	0.02267	-18.3	320.6	0.06590
440.00	19.43	0.02295	-19.4	320.8	0.07315
433.00	20.23	0.02321	-20.2	321.4	0.07741
426.00	19.46	0.02346	-21.2	321.6	0.07571
420.00	17.18	0.02365	-22.1	321.7	0.06776
415.00	17.59	0.02382	-22.6	322.2	0.07022
409.50	17.93	0.02401	-23.2	322.6	0.07255
404.00	17.58	0.02419	-23.8	323.0	0.07209
400.00	15.89	0.02432	-24.7	322.8	0.06582
394.00	16.32	0.02451	-25.5	323.1	0.06864
389.00	17.07	0.02468	-26.2	323.5	0.07270
383.00	16.69	0.02489	-26.8	324.1	0.07222
378.00	16.24	0.02506	-27.5	324.4	0.07118

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
362.00	18.03	0.02567	-30.1	324.9	0.08255
357.00	15.85	0.02585	-30.8	325.3	0.07359
352.00	16.12	0.02603	-31.3	325.9	0.07590
347.00	15.33	0.02620	-31.6	326.9	0.07321
342.00	15.72	0.02638	-32.1	327.5	0.07614
337.00	15.71	0.02656	-32.4	328.5	0.07723
331.00	17.79	0.02682	-32.9	329.5	0.08908
326.00	18.15	0.02703	-34.2	329.2	0.09225
320.00	17.37	0.02729	-35.2	329.6	0.08995
315.00	16.27	0.02749	-35.7	330.3	0.08559
310.00	17.43	0.02771	-37.0	330.0	0.09315
305.00	17.38	0.02793	-38.0	330.1	0.09442
300.00	17.85	0.02817	-38.7	330.7	0.09860
295.00	17.02	0.02839	-39.6	331.0	0.09560
290.00	15.88	0.02861	-40.7	331.1	0.09073
285.00	15.43	0.02882	-41.6	331.4	0.08970
280.00	12.73	0.02900	-42.5	331.8	0.07533
275.00	12.33	0.02917	-43.5	332.1	0.07431
270.00	12.79	0.02936	-44.4	332.5	0.07850
265.00	12.89	0.02955	-45.3	333.1	0.08061
260.00	12.95	0.02974	-46.3	333.4	0.08252
255.50	13.14	0.02992	-46.9	334.1	0.08520
251.00	12.73	0.03010	-48.0	334.3	0.08402
246.00	12.73	0.03030	-49.2	334.4	0.08573
241.00	13.62	0.03053	-50.1	335.0	0.09365
237.00	12.75	0.03069	-51.4	334.6	0.08917
232.00	13.69	0.03092	-52.5	334.9	0.09777
227.50	14.11	0.03114	-53.5	335.3	0.10280
223.00	14.64	0.03137	-54.5	335.7	0.10879
218.50	15.06	0.03162	-55.5	336.1	0.11424
214.00	16.00	0.03188	-56.4	336.8	0.12390
209.50	17.23	0.03217	-57.7	336.8	0.13630
205.00	18.10	0.03248	-58.5	337.5	0.14631
200.50	19.02	0.03281	-59.9	337.5	0.15720
197.00	24.72	0.03316	-60.6	338.0	0.20795
193.00	33.65	0.03370	-61.6	338.5	0.28888
189.00	45.73	0.03446	-61.6	340.5	0.40089
184.80	66.45	0.03564	-61.6	342.7	0.59580
180.00	80.13	0.03730	-61.9	344.9	0.73765
176.00	92.99	0.03895	-62.1	346.7	0.87545
172.00	108.49	0.04092	-60.6	351.4	1.04516
167.50	113.59	0.04330	-59.5	356.1	1.12366
163.00	115.68	0.04578	-58.1	361.1	1.17601
159.50	110.10	0.04767	-57.0	365.2	1.14375
156.00	102.64	0.04947	-56.4	368.6	1.09019
152.30	98.36	0.05133	-55.9	371.9	1.07012
149.00	104.00	0.05313	-56.1	373.9	1.15660
145.60	106.52	0.05507	-56.4	376.0	1.21221
142.00	102.46	0.05710	-56.4	378.7	1.19559
138.50	88.58	0.05884	-56.8	380.6	1.05972
135.00	71.87	0.06030	-57.0	383.0	0.88209
132.00	62.09	0.06140	-57.2	385.1	0.77940
129.00	64.79	0.06257	-57.2	387.7	0.83221
125.50	82.32	0.06436	-57.7	389.9	1.08687
122.00	97.58	0.06654	-57.7	393.1	1.32530

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
119.00	98.26	0.06847	-57.7	395.9	1.36816
116.00	103.49	0.07056	-57.7	398.8	1.47832
113.00	112.22	0.07288	-57.7	401.8	1.64563
110.00	111.50	0.07525	-57.4	405.3	1.67963
107.20	109.63	0.07748	-57.2	408.7	1.69455
104.50	109.69	0.07969	-57.2	411.7	1.73930
101.80	107.76	0.08192	-57.0	415.2	1.75409
99.30	106.21	0.08400	-57.0	418.2	1.77223
96.70	109.57	0.08630	-56.8	421.8	1.87748
94.00	109.73	0.08875	-56.8	425.2	1.93422
91.40	102.51	0.09102	-56.8	428.6	1.85834
88.90	90.43	0.09300	-56.8	432.0	1.68557
86.40	79.52	0.09479	-57.0	435.1	1.52496
83.80	76.53	0.09664	-57.7	437.6	1.51322
81.30	91.39	0.09882	-57.4	441.9	1.86263
78.90	114.35	0.10153	-55.9	448.8	2.40158
76.60	128.21	0.10452	-55.5	453.5	2.77343
74.10	133.97	0.10803	-55.5	457.8	2.99579
71.90	132.75	0.11119	-55.7	461.3	3.05937
69.70	130.79	0.11440	-56.1	464.5	3.10943
67.50	138.90	0.11792	-56.1	468.8	3.40982
65.20	148.37	0.12198	-55.7	474.4	3.77064
63.20	151.09	0.12570	-55.7	478.6	3.96145
61.00	153.17	0.12998	-55.9	483.0	4.16065
59.20	155.73	0.13367	-56.1	486.7	4.35884
57.10	152.50	0.13801	-56.6	490.8	4.42550
55.30	153.94	0.14191	-56.4	495.8	4.61258
53.40	156.47	0.14623	-56.1	501.2	4.85520
51.70	161.38	0.15035	-56.1	505.9	5.17222
49.80	164.21	0.15520	-55.9	511.8	5.46367
48.10	160.10	0.15959	-55.5	517.9	5.51539
46.30	159.70	0.16440	-55.3	524.1	5.71525
44.60	160.98	0.16916	-55.1	530.2	5.98094
42.80	160.17	0.17437	-54.9	537.0	6.20103
41.10	162.64	0.17957	-54.1	545.3	6.55697
39.50	165.18	0.18475	-53.5	553.0	6.92905
37.90	168.07	0.19024	-52.9	561.1	7.34823
36.30	166.93	0.19592	-52.1	570.0	7.62005
34.80	166.93	0.20148	-51.6	578.4	7.94850
33.20	168.62	0.20775	-51.0	587.7	8.41594
31.80	167.39	0.21344	-50.3	597.0	8.72206
30.30	163.36	0.21968	-50.1	605.8	8.93374
28.70	158.79	0.22648	-49.5	616.7	9.16774
27.00	154.20	0.23391	-49.0	629.1	9.46320
25.50	148.77	0.24063	-49.2	638.9	9.66724
24.00	143.62	0.24750	-49.4	649.6	9.91577
22.60	137.88	0.25404	-49.0	661.9	10.10880
21.60	134.50	0.25885	-48.5	672.1	10.31786
20.60	132.29	0.26380	-49.0	679.6	10.64085
19.60	130.88	0.26894	-49.0	689.4	11.06487
18.75	129.25	0.27347	-47.6	702.5	11.42256
17.90	125.46	0.27806	-46.3	716.2	11.61393
17.15	122.72	0.28221	-46.3	725.0	11.85665
16.40	121.69	0.28651	-46.1	734.9	12.29561
15.80	119.95	0.29004	-45.6	744.4	12.57973

Table 9 (continued)

WASHINGTON,D.C. 6/5/69 1329Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
15.20	115.46	0.29357	-44.6	755.9	12.58628
14.60	110.99	0.29710	-44.6	764.6	12.59622
14.10	107.60	0.30006	-44.3	773.4	12.64525
13.60	106.68	0.30310	-43.2	785.2	12.99750
13.10	105.20	0.30621	-42.1	797.4	13.30604
12.70	103.19	0.30873	-41.1	807.7	13.46300
12.20	100.56	0.31192	-40.7	818.7	13.65808
11.80	97.58	0.31449	-40.8	826.0	13.70198
11.40	96.92	0.31713	-41.0	833.6	14.08771
11.15	95.57	0.31880	-40.7	840.0	14.20279
10.80	96.51	0.32123	-40.2	849.3	14.80788
10.55	97.06	0.32303	-39.9	856.1	15.24505
10.25	88.45	0.32504	-39.9	863.2	14.29948
10.00	84.64	0.32669	-39.9	869.3	14.02427
9.80	83.65	0.32803	-39.9	874.4	14.14300
9.60	81.06	0.32935	-39.8	880.1	13.99124
9.45	78.44	0.33032	-39.6	884.6	13.75407
9.30	79.65	0.33133	-39.8	888.1	14.19060

Table 10

WASHINGTON,D.C. 8/7/69 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1013.70	27.9	20.8	15.25303	299.9		
1002.00	26.3	19.5	14.21646	299.3	0.17591484	0.17591484
992.00	25.7	18.3	13.27454	299.5	0.14026022	0.31617506
978.00	24.7	16.0	11.61123	299.7	0.17775546	0.49393052
963.00	23.9	16.0	11.79552	300.3	0.17913323	0.67306375
949.00	23.1	13.9	10.43280	300.8	0.15877366	0.83183741
932.00	21.8	11.9	9.34509	301.0	0.17154287	1.00338028
918.00	20.7	11.0	8.92655	301.2	0.13051172	1.13389200
903.00	19.5	11.0	9.07700	301.3	0.13778228	1.27167428
889.00	18.4	10.1	8.69072	301.5	0.12691224	1.39858652
873.00	17.4	9.3	8.35673	302.0	0.13916285	1.53774937
859.00	16.3	6.2	6.85175	302.3	0.10863202	1.64638138
845.00	15.0	4.1	6.01265	302.4	0.09188855	1.73826994
830.60	13.8	4.8	6.41811	302.6	0.09132802	1.82959795
819.00	13.5	4.8	6.50996	303.5	0.07651309	1.90611105
810.00	12.9	2.8	5.72039	303.8	0.05615977	1.96227082
802.00	12.4	2.2	5.52515	304.1	0.04590014	2.00817096
792.00	12.1	-0.7	4.55381	304.9	0.05142324	2.05959420
782.00	11.4	-1.3	4.41016	305.3	0.04573452	2.10532872
772.80	10.3	-1.8	4.27091	305.2	0.04074789	2.14607661
763.00	9.6	-2.3	4.14330	305.4	0.04207109	2.18814770
754.40	8.2	-3.3	3.85304	304.9	0.03508602	2.22323372
746.00	7.4	-4.2	3.59305	305.1	0.03191181	2.25514553
736.80	6.7	-1.3	4.68274	305.4	0.03884554	2.29399107
727.00	5.7	-2.3	4.34991	305.4	0.04516326	2.33915433
718.00	4.9	-2.8	4.22190	305.7	0.03936036	2.37851469
709.00	4.7	-2.8	4.27586	306.5	0.03902036	2.41753505
700.00	4.1	-4.7	3.68206	307.0	0.03654147	2.45407652
690.00	3.4	-6.9	3.09410	307.5	0.03457225	2.48864877
681.20	2.8	-8.9	2.63182	308.0	0.02570825	2.51435702
672.00	2.4	-10.0	2.41626	308.7	0.02369508	2.53805210
664.00	2.2	-8.5	2.79355	309.6	0.02126454	2.55931664
655.00	2.2	-6.0	3.50938	310.8	0.02894204	2.58825869
647.00	2.5	-13.0	1.90543	312.2	0.02210127	2.61035996
638.00	2.9	-24.8	0.63138	313.9	0.01164862	2.62200858
630.00	3.1	-26.8	0.52141	315.2	0.00470528	2.62671386
621.00	2.5	-28.8	0.42962	315.9	0.00436700	2.63108086
613.00	2.2	-31.6	0.32609	316.7	0.00308453	2.63416539
605.00	1.8	-30.3	0.38050	317.4	0.00288405	2.63704944
596.80	1.0	-25.3	0.63759	317.7	0.00425939	2.64130883
589.00	0.7	-35.5	0.22313	318.6	0.00342531	2.64473414
580.80	0.0	-39.6	0.14408	319.1	0.00153628	2.64627042
572.00	-0.7	-40.4	0.13281	319.6	0.00124321	2.64751362
565.00	-1.3	-38.0	0.17637	320.0	0.00110422	2.64861785
557.00	-2.2	-29.8	0.43383	320.3	0.00249060	2.65110845
549.30	-2.8	-27.0	0.58749	320.8	0.00401232	2.65512077
541.00	-3.5	-34.7	0.26392	321.4	0.00360545	2.65872622
534.00	-4.3	-37.6	0.19642	321.7	0.00164408	2.66037031
527.00	-4.8	-37.9	0.19152	322.2	0.00138551	2.66175581
520.00	-5.1	-36.7	0.22100	323.2	0.00147327	2.66322908
512.00	-5.2	-43.7	0.10155	324.4	0.00131652	2.66454559
504.60	-6.0	-19.6	1.31963	324.8	0.00536568	2.66991127
497.00	-7.1	-18.9	1.43655	324.8	0.01068724	2.68059852
490.00	-8.3	-18.7	1.49197	324.7	0.01045901	2.69105753
483.00	-9.2	-18.9	1.47829	325.0	0.01060808	2.70166561

Table 10 (continued)

WASHINGTON,D.C. 8/7/69 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
476.00	-10.1	-20.6	1.27838	325.2	0.00984525	2.71151085
469.00	-10.8	-22.8	1.04801	325.7	0.00830853	2.71981939
461.50	-11.3	-28.8	0.57824	326.5	0.00622291	2.72604230
454.00	-11.9	-34.5	0.32346	327.4	0.00345041	2.72949271
447.00	-12.5	-36.4	0.26754	328.1	0.00211072	2.73160343
439.00	-13.1	-31.7	0.44850	329.0	0.00292261	2.73452605
432.40	-14.0	-30.6	0.51580	329.3	0.00324713	2.73777318
425.00	-14.6	-36.0	0.29293	330.2	0.00305338	2.74082655
418.00	-15.1	-38.6	0.22382	331.1	0.00184554	2.74267209
412.00	-16.0	-38.5	0.22995	331.3	0.00138907	2.74406117
404.80	-16.7	-35.0	0.34309	332.0	0.00210502	2.74616619
398.00	-18.0	-33.0	0.43227	332.0	0.00269001	2.74885620
391.00	-18.8	-31.7	0.50361	332.6	0.00334242	2.75219861
385.00	-19.5	-29.2	0.67050	333.2	0.00359421	2.75579283
378.00	-20.3	-29.0	0.69440	333.8	0.00487466	2.76066749
372.00	-21.2	-30.3	0.61907	334.2	0.00402082	2.76468832
365.40	-22.3	-29.0	0.71837	334.4	0.00450363	2.76919194
359.00	-23.4	-29.2	0.71912	334.6	0.00469386	2.77388580
353.00	-24.2	-28.5	0.78214	335.2	0.00459571	2.77848151
347.50	-25.3	-29.8	0.69567	335.2	0.00414692	2.78262843
341.70	-26.3	-31.7	0.57633	335.4	0.00376408	2.78639251
335.00	-27.4	-33.4	0.49159	336.0	0.00365054	2.79004305
330.00	-28.0	-39.5	0.25675	336.5	0.00190904	2.79195209
324.00	-28.3	-42.3	0.19000	337.9	0.00136761	2.79331969
318.40	-28.8	-44.8	0.14478	338.9	0.00095650	2.79427619
312.50	-29.4	-47.3	0.10859	339.8	0.00076269	2.79503888
307.50	-30.3	-48.0	0.10167	340.1	0.00053638	2.79557526
302.00	-31.4	-48.7	0.09546	340.4	0.00055315	2.79612841
296.50	-32.2	-49.0	0.09339	341.1	0.00052993	2.79665833
290.00	-33.3	-49.1	0.09453	341.6	0.00062322	2.79728156
284.30	-34.4	-49.1	0.09643	342.0	0.00055535	2.79783691
279.00	-35.6	-48.8	0.10127	342.1	0.00053458	2.79837149
273.50	-36.7	-48.7	0.10540	342.4	0.00057994	2.79895143
268.50	-37.9	-48.0	0.11644	342.6	0.00056592	2.79951735
263.30	-38.7	-47.3	0.12889	343.3	0.00065086	2.80016821
258.30	-40.2	-46.6	0.14276	343.0	0.00069297	2.80086118
253.30	-41.3	-46.4	0.15022	343.2	0.00074739	2.80160857
249.00	-42.5	-45.8	0.16280	343.1	0.00068672	2.80229530
244.20	-43.7	-45.9	0.16425	343.2	0.00080093	2.80309623
239.00	-44.7	-46.3	0.16089	343.9	0.00086262	2.80395885
234.30	-45.9	-48.7	0.12181	344.0	0.00067790	2.80463675
229.00	-47.2	-51.2	0.09262	344.2	0.00057984	2.80521659
225.00	-47.7	-52.3	0.08155	345.2	0.00035545	2.80557204
220.00	-47.9	-49.6	0.11737	347.2	0.00050745	2.80607948
216.00	-48.1	-56.6	0.04870	348.8	0.00033892	2.80641841
212.00	-48.6	-57.3	0.04521	349.8	0.00019166	2.80661007
207.50	-49.4	-57.1	0.04750	350.6	0.00021286	2.80682293
203.00	-50.5	-57.0	0.04946	351.2	0.00022262	2.80704554
198.40	-51.5	-56.6	0.05302	351.8	0.00024052	2.80728606
194.00	-53.0	-57.1	0.05128	351.7	0.00023414	2.80752020
190.50	-54.3	-57.2	0.05126	351.4	0.00018311	2.80770331
187.00	-55.7	-57.2	0.05222	351.1	0.00018478	2.80788809
183.00	-56.3	-57.8	0.04954	352.3	0.00020767	2.80809576
179.00	-56.9	-59.4	0.04097	353.5	0.00018471	2.80828048
175.20	-57.6	-59.8	0.03923	354.6	0.00015549	2.80843597

Table 10 (continued)

WASHINGTON,D.C. 8/7/69 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
171.00	-58.2	-58.7	0.04660	356.0	0.00018393	2.80861990
167.60	-58.8	-59.0	0.04582	357.0	0.00016033	2.80878023
164.00	-59.7	-59.5	0.04390	357.8	0.00016479	2.80894502
160.70	-60.6	-59.8	0.04317	358.3	0.00014659	2.80909161
157.00	-61.3	-61.0	0.03740	359.5	0.00015210	2.80924371
153.70	-61.6	-64.3	0.02411	361.3	0.00010356	2.80934726
150.00	-61.8	-66.9	0.01708	363.4	0.00007776	2.80942502
146.50	-62.8	-68.4	0.01403	364.2	0.00005556	2.80948058
143.00	-63.0	-70.9	0.00997	366.3	0.00004286	2.80952345
140.20	-63.3	-73.7	0.00665	368.0	0.00002375	2.80954720
137.00	-63.5	-73.8	0.00665	370.0	0.00002173	2.80956892
134.20	-64.0	-74.0	0.00656	371.2	0.00001887	2.80958779
131.00	-65.0	-74.2	0.00656	372.0	0.00002142	2.80960921
128.20	-65.0	-74.4	0.00647	374.3	0.00001861	2.80962782
125.00	-65.3	-75.2	0.00588	376.5	0.00002016	2.80964798
122.30	-65.6	-74.9	0.00631	378.4	0.00001679	2.80966477
119.00	-65.6	-75.5	0.00588	381.3	0.00002052	2.80968530
116.20	-64.5	-76.6	0.00505	385.9	0.00001561	2.80970090
113.00	-63.5	-78.0	0.00420	390.9	0.00001510	2.80971600
110.30	-64.0	-78.5	0.00396	392.6	0.00001125	2.80972725
107.00	-64.3	-78.5	0.00409	395.6	0.00001355	2.80974080
104.50	-62.8	-78.0	0.00454	401.1	0.00001100	2.80975180
102.00	-61.8	-77.8	0.00478	405.8	0.00001189	2.80976369
98.90	-62.8	-78.9	0.00412	407.5	0.00001408	2.80977777
96.50	-63.5	-80.5	0.00325	408.9	0.00000902	2.80978680
93.90	-63.5	-81.1	0.00300	412.1	0.00000829	2.80979508
91.10	-63.5	-81.1	0.00314	415.7	0.00000877	2.80980385
88.70	-63.3	-81.2	0.00312	419.4	0.00000767	2.80981152
86.30	-63.0	-81.6	0.00301	423.2	0.00000752	2.80981904
83.90	-61.8	-81.2	0.00330	429.1	0.00000774	2.80982677
81.50	-61.6	-82.7	0.00267	433.1	0.00000731	2.80983408
79.10	-61.3	-83.0	0.00261	437.3	0.00000646	2.80984054
76.80	-61.1	-83.3	0.00255	441.5	0.00000606	2.80984660
74.50	-61.1	-83.3	0.00263	445.4	0.00000609	2.80985269
72.50	-60.9	-84.0	0.00239	449.3	0.00000513	2.80985782
70.40	-60.4	-83.1	0.00288	454.1	0.00000565	2.80986347
68.20	-59.5	-83.0	0.00303	460.2	0.00000664	2.80987011
66.30	-59.1	-84.0	0.00261	464.9	0.00000547	2.80987558
64.10	-58.4	-83.8	0.00280	470.8	0.00000608	2.80988166
62.40	-57.3	-84.1	0.00273	476.8	0.00000480	2.80988646
60.40	-56.5	-84.1	0.00282	483.1	0.00000566	2.80989212
58.70	-56.3	-84.0	0.00295	487.5	0.00000501	2.80989713
56.80	-56.1	-84.0	0.00305	492.5	0.00000582	2.80990295
55.00	-55.7	-84.0	0.00315	498.0	0.00000570	2.80990865
53.20	-54.7	-84.5	0.00297	505.1	0.00000563	2.80991427
51.50	-53.6	-84.3	0.00319	512.5	0.00000535	2.80991962
49.80	-53.2	-84.4	0.00324	518.3	0.00000557	2.80992519
48.20	-53.4	-84.7	0.00322	522.7	0.00000527	2.80993047
46.60	-53.2	-84.5	0.00340	528.2	0.00000540	2.80993587
45.10	-53.2	-84.8	0.00338	533.2	0.00000519	2.80994106
43.50	-53.0	-85.5	0.00307	539.2	0.00000526	2.80994632
42.10	-52.8	-85.5	0.00317	544.7	0.00000445	2.80995077
40.60	-52.6	-85.3	0.00342	550.8	0.00000504	2.80995581
39.00	-52.5	-85.5	0.00342	557.7	0.00000558	2.80996139
37.50	-52.3	-85.8	0.00342	564.4	0.00000524	2.80996663

Table 10 (continued)

WASHINGTON,D.C. 8/7/69 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
36.00	-52.3	-85.9	0.00349	571.0	0.00000529	2.80997192
34.70	-51.9	-86.0	0.00355	578.0	0.00000467	2.80997659
33.30	-51.0	-86.3	0.00348	587.2	0.00000503	2.80998162
32.00	-50.8	-86.7	0.00341	594.4	0.00000457	2.80998619
30.60	-50.8	-86.8	0.00349	602.1	0.00000493	2.80999111
29.30	-49.9	-87.2	0.00342	612.0	0.00000458	2.80999570
27.90	-49.1	-87.7	0.00329	623.0	0.00000480	2.81000049
26.50	-48.7	-87.9	0.00332	633.2	0.00000472	2.81000521
25.10	-48.6	-88.3	0.00327	643.6	0.00000471	2.81000992
23.70	-47.7	-88.7	0.00323	656.7	0.00000465	2.81001456
22.60	-47.1	-88.8	0.00331	667.6	0.00000367	2.81001824
21.40	-46.7	-88.9	0.00341	679.1	0.00000412	2.81002235
20.40	-46.3	-89.1	0.00350	689.9	0.00000353	2.81002588
19.60	-45.0	-89.3	0.00347	701.8	0.00000284	2.81002872
18.75	-44.8	-89.4	0.00360	711.2	0.00000306	2.81003179
17.80	-44.8	-90.0	0.00341	721.8	0.00000339	2.81003518
17.30	-45.1	-90.8	0.00303	726.7	0.00000164	2.81003682
16.60	-45.1	-90.3	0.00343	735.4	0.00000231	2.81003913
16.00	-44.7	-90.4	0.00347	744.7	0.00000211	2.81004124
15.40	-44.2	-90.7	0.00342	754.4	0.00000211	2.81004335
14.90	-43.6	-91.2	0.00326	763.6	0.00000170	2.81004506
14.30	-43.4	-91.2	0.00340	773.1	0.00000204	2.81004710
13.86	-43.1	-91.4	0.00338	781.1	0.00000152	2.81004862
13.40	-43.0	-91.6	0.00336	789.2	0.00000158	2.81005020
12.95	-42.8	-91.3	0.00365	797.5	0.00000161	2.81005181
12.50	-42.1	-91.5	0.00368	808.2	0.00000168	2.81005349
12.10	-41.2	-91.6	0.00369	818.9	0.00000150	2.81005500
11.75	-41.0	-92.0	0.00355	826.3	0.00000129	2.81005629
11.37	-40.4	-92.0	0.00367	836.2	0.00000140	2.81005769
11.00	-39.1	-92.0	0.00379	848.9	0.00000141	2.81005909
10.70	-38.3	-92.2	0.00374	858.7	0.00000115	2.81006025
10.40	-38.3	-92.6	0.00356	865.7	0.00000112	2.81006136
10.13	-38.3	-92.4	0.00380	872.3	0.00000101	2.81006238
9.80	-38.3	-91.8	0.00442	880.6	0.00000138	2.81006376
9.55	-38.3	-92.6	0.00393	887.1	0.00000107	2.81006483
9.30	-38.6	-92.7	0.00391	892.8	0.00000100	2.81006583
9.10	-38.6	-92.7	0.00400	898.3	0.00000081	2.81006664
8.90	-38.1	-92.9	0.00397	905.7	0.00000081	2.81006745
8.67	-38.3	-92.9	0.00407	911.9	0.00000094	2.81006839
8.50	-38.7	-92.9	0.00415	915.4	0.00000071	2.81006910
8.37	-38.7	-93.0	0.00409	919.5	0.00000055	2.81006965
8.23	-37.7	-93.0	0.00416	927.8	0.00000059	2.81007024

Table 11

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1013.70					
1002.00	88.21	0.00081	26.3	299.3	0.14587
992.00	89.41	0.00152	25.7	299.5	0.14935
978.00	92.25	0.00255	24.7	299.7	0.15630
963.00	93.06	0.00369	23.9	300.3	0.16012
949.00	86.75	0.00469	23.1	300.8	0.15147
932.00	80.73	0.00584	21.8	301.0	0.14353
918.00	79.87	0.00680	20.7	301.2	0.14417
903.00	84.49	0.00790	19.5	301.3	0.15505
889.00	82.18	0.00891	18.4	301.5	0.15317
873.00	84.03	0.01012	17.4	302.0	0.15950
859.00	82.64	0.01117	16.3	302.3	0.15942
845.00	75.79	0.01215	15.0	302.4	0.14861
830.60	79.93	0.01324	13.8	302.6	0.15945
817.00	88.26	0.01439	12.9	303.0	0.17901
803.00	90.44	0.01562	11.7	303.3	0.18662
787.00	82.58	0.01693	11.0	304.2	0.17387
772.00	85.14	0.01823	10.0	304.9	0.18274
758.00	81.71	0.01941	9.0	305.4	0.17863
744.00	75.97	0.02053	7.7	305.7	0.16919
730.00	75.97	0.02167	6.9	306.4	0.17244
716.00	71.71	0.02276	6.0	307.1	0.16596
703.00	66.71	0.02373	4.5	307.1	0.15725
691.00	63.04	0.02459	3.1	307.0	0.15118
676.00	60.97	0.02564	1.7	307.4	0.14945
663.00	68.54	0.02669	1.0	308.3	0.17131
650.00	60.48	0.02764	2.1	311.3	0.15417
636.00	53.69	0.02856	2.9	314.2	0.13989
624.00	55.40	0.02939	2.1	315.0	0.14711
612.50	57.12	0.03023	1.4	315.8	0.15451
600.00	65.43	0.03130	0.8	317.1	0.18070
588.00	71.33	0.03244	0.4	318.4	0.20100
576.00	83.21	0.03379	-0.1	319.6	0.23938
564.50	71.07	0.03492	-1.1	320.4	0.20860
551.00	52.56	0.03593	-1.9	321.6	0.15806
540.00	61.95	0.03691	-2.6	322.7	0.19009
529.00	57.08	0.03784	-3.4	323.6	0.17879
517.50	50.78	0.03872	-4.5	324.2	0.16259
506.00	53.04	0.03966	-5.6	325.1	0.17369
495.70	53.21	0.04053	-6.6	325.7	0.17788
484.00	50.53	0.04148	-7.8	326.5	0.17298
472.50	47.70	0.04239	-9.1	327.2	0.16726
462.00	43.20	0.04315	-10.7	327.2	0.15494
450.00	40.41	0.04399	-12.1	328.0	0.14878
440.00	37.78	0.04466	-13.6	328.2	0.14229
430.00	41.43	0.04541	-15.0	328.6	0.15964
420.00	43.38	0.04622	-16.2	329.2	0.17115
409.80	39.20	0.04698	-17.7	329.6	0.15851
400.00	37.51	0.04770	-19.0	330.3	0.15538
391.00	35.59	0.04834	-20.0	331.1	0.15084
382.00	34.16	0.04897	-20.5	332.7	0.14816
372.00	32.26	0.04964	-21.7	333.6	0.14369
363.00	33.75	0.05029	-23.1	334.1	0.15408
353.80	30.97	0.05092	-24.4	334.7	0.14507
345.00	31.50	0.05155	-26.1	334.9	0.15130
336.70	30.43	0.05213	-27.4	335.5	0.14974

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
328.00	26.77	0.05269	-28.6	336.2	0.13523
319.60	25.31	0.05320	-29.4	337.7	0.13120
311.00	29.14	0.05383	-30.4	338.9	0.15525
303.30	30.83	0.05444	-31.8	339.5	0.16842
292.50	29.08	0.05527	-33.2	340.9	0.16474
287.00	33.75	0.05578	-34.7	340.7	0.19485
279.00	33.75	0.05653	-36.2	341.3	0.20044
271.30	29.20	0.05718	-37.4	342.2	0.17831
264.00	26.15	0.05774	-38.9	342.8	0.16410
256.20	21.76	0.05826	-40.4	343.4	0.14071
249.00	19.23	0.05869	-42.2	343.6	0.12800
241.00	19.29	0.05919	-43.9	344.3	0.13266
234.00	19.35	0.05964	-45.6	344.6	0.13705
227.80	25.33	0.06018	-47.2	344.8	0.18426
221.00	22.95	0.06072	-48.9	345.2	0.17205
214.70	21.74	0.06122	-49.3	347.5	0.16782
208.00	21.21	0.06175	-49.8	349.9	0.16894
202.50	21.26	0.06220	-51.5	349.8	0.17400
195.00	22.73	0.06288	-53.0	351.2	0.19317
188.80	23.84	0.06349	-54.7	351.7	0.20925
183.00	28.68	0.06419	-56.3	352.3	0.25968
177.00	31.78	0.06503	-56.7	355.0	0.29748
172.00	30.82	0.06573	-57.1	357.2	0.29687
166.20	27.49	0.06647	-57.3	360.4	0.27411
161.00	27.56	0.06716	-58.0	362.6	0.28365
155.80	27.06	0.06787	-58.4	365.3	0.28784
151.00	25.61	0.06850	-58.8	367.8	0.28105
146.50	25.58	0.06911	-60.2	368.7	0.28932
142.00	23.27	0.06968	-61.1	370.4	0.27153
137.50	25.13	0.07032	-61.3	373.4	0.30285
133.00	30.18	0.07111	-61.8	376.1	0.37606
129.00	30.98	0.07186	-62.0	379.0	0.39795
125.00	27.15	0.07254	-63.0	380.7	0.35984
121.60	22.22	0.07302	-63.5	382.8	0.30276
118.00	22.27	0.07355	-63.8	385.6	0.31268
114.50	23.81	0.07411	-63.8	388.9	0.34453
111.00	24.99	0.07473	-63.8	392.4	0.37309
108.00	30.44	0.07539	-63.5	396.0	0.46696
104.00	49.01	0.07685	-63.5	400.3	0.78080
101.30	56.84	0.07803	-63.5	403.3	0.92980
98.90	52.87	0.07903	-63.5	406.1	0.88576
95.80	48.12	0.08024	-63.8	409.3	0.83231
93.10	40.39	0.08115	-64.3	411.6	0.71881
90.50	35.74	0.08195	-64.0	415.5	0.65436
87.90	36.87	0.08280	-63.8	419.5	0.69506
85.50	37.89	0.08362	-63.3	423.8	0.73422
83.00	39.78	0.08456	-63.3	427.4	0.79407
81.00	45.04	0.08542	-63.3	430.4	0.92143
78.40	54.21	0.08682	-63.0	434.9	1.14572
76.30	64.53	0.08820	-62.3	439.9	1.40148
74.20	73.18	0.08982	-62.3	443.4	1.63412
72.30	81.29	0.09148	-62.5	446.2	1.86311
70.40	88.37	0.09334	-62.5	449.6	2.07992
68.60	94.75	0.09528	-62.8	452.4	2.28873
66.80	100.96	0.09740	-62.8	455.8	2.50443

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
65.00	105.86	0.09968	-62.3	460.5	2.69869
63.20	106.73	0.10205	-60.9	467.3	2.79830
61.60	110.32	0.10428	-59.5	473.7	2.96750
60.00	116.92	0.10671	-59.1	478.3	3.22897
58.50	124.40	0.10920	-58.6	482.8	3.52349
56.90	138.96	0.11224	-58.2	487.6	4.04664
55.50	142.61	0.11504	-57.3	493.0	4.25762
54.00	142.10	0.11812	-56.7	498.3	4.36043
52.50	142.52	0.12129	-56.1	503.7	4.49834
51.20	148.47	0.12423	-54.7	510.6	4.80496
49.80	155.47	0.12763	-53.2	518.3	5.17304
48.40	162.92	0.13130	-53.2	522.5	5.57756
47.10	163.36	0.13481	-53.2	526.6	5.74707
45.80	161.47	0.13838	-52.8	531.7	5.84183
44.70	159.52	0.14144	-52.3	536.8	5.91345
43.50	158.15	0.14484	-51.5	542.8	6.02408
42.40	158.61	0.14804	-51.2	547.6	6.19832
41.10	160.35	0.15199	-51.0	553.0	6.46479
40.00	161.73	0.15545	-50.6	558.2	6.69962
39.00	161.64	0.15868	-50.5	562.7	6.86752
37.90	160.72	0.16231	-49.9	568.6	7.02672
36.90	162.00	0.16573	-50.1	572.5	7.27485
36.00	161.99	0.16889	-50.3	576.1	7.45582
35.00	165.64	0.17258	-49.6	582.6	7.84200
34.10	166.01	0.17599	-49.1	588.3	8.06664
33.20	167.74	0.17953	-49.4	591.9	8.37182
32.30	169.98	0.18322	-49.6	596.1	8.71995
31.40	170.84	0.18703	-49.8	600.5	9.01536
30.70	169.01	0.19004	-49.8	604.4	9.12238
30.00	167.19	0.19309	-49.8	608.4	9.23440
29.10	164.88	0.19705	-49.8	613.7	9.38840
28.20	163.54	0.20111	-49.6	619.7	9.60928
27.50	163.06	0.20434	-49.4	624.6	9.82496
26.80	163.06	0.20766	-48.9	630.7	10.08159
26.10	162.49	0.21106	-48.2	637.4	10.31590
25.40	162.49	0.21455	-47.9	643.3	10.60019
24.70	162.94	0.21814	-47.4	649.9	10.93102
24.00	162.06	0.22182	-47.1	656.2	11.18866
23.40	159.23	0.22500	-46.9	661.5	11.27514
22.70	156.96	0.22877	-46.4	668.7	11.45705
22.20	154.61	0.23149	-46.3	673.4	11.53994
21.60	151.44	0.23476	-46.1	679.2	11.61729
21.00	150.53	0.23811	-46.1	684.7	11.87775
20.40	146.85	0.24147	-46.3	689.9	11.92815
19.80	144.63	0.24488	-46.3	695.8	12.10340
19.30	141.56	0.24774	-46.3	700.9	12.15351
18.80	136.75	0.25057	-46.3	706.2	12.05278
18.30	134.08	0.25343	-46.1	712.2	12.14058
17.80	133.71	0.25635	-45.5	719.8	12.44717
17.30	133.77	0.25936	-44.5	728.7	12.81298
16.85	134.22	0.26215	-44.4	734.7	13.19878
16.40	134.22	0.26502	-44.4	740.4	13.56094
15.95	132.96	0.26794	-43.9	747.9	13.81304
15.50	132.14	0.27093	-43.0	757.0	14.12649
15.10	132.66	0.27367	-43.1	762.2	14.55740

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
14.70	129.66	0.27642	-43.3	767.6	14.61520
14.30	125.52	0.27915	-43.3	773.6	14.54473
13.90	121.83	0.28188	-43.1	780.5	14.52265
13.55	120.05	0.28430	-43.1	786.2	14.68017
13.20	116.66	0.28671	-43.3	791.5	14.64393
12.85	114.16	0.28913	-43.3	797.6	14.72051
12.50	111.11	0.29155	-43.1	804.5	14.72889
12.15	109.00	0.29399	-43.0	811.6	14.86479
11.80	106.12	0.29644	-42.8	818.9	14.90116
11.55	103.97	0.29820	-42.4	825.6	14.91542
11.25	101.89	0.30032	-41.6	834.5	15.00734
10.95	98.42	0.30242	-40.6	844.7	14.89265
10.65	95.55	0.30451	-39.6	855.2	14.86596
10.38	91.91	0.30638	-38.4	865.7	14.67246
10.10	90.10	0.30832	-37.9	874.6	14.78239
9.83	88.13	0.31021	-38.1	880.3	14.85638
9.55	84.59	0.31214	-38.4	886.6	14.67650
9.30	81.82	0.31385	-38.4	893.3	14.57791
9.05	79.52	0.31556	-38.6	899.7	14.55929
8.80	78.10	0.31729	-38.7	906.4	14.70634
8.58	76.26	0.31882	-38.6	913.5	14.72723
8.37	75.01	0.32028	-37.3	925.0	14.84958
8.20	74.34	0.32149	-36.6	933.2	15.02239
8.03	71.53	0.32267	-37.2	936.6	14.75958
7.90	70.22	0.32357	-36.9	942.1	14.72756
7.87	70.22	0.32379	-35.9	947.0	14.78370
7.85	69.59	0.32393	-35.5	949.3	14.68966

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
850.00					
839.00	64.71	0.00067	15.3	303.3	0.12779
828.30	60.65	0.00128	14.3	303.4	0.12134
819.00	56.39	0.00178	13.5	303.5	0.11410
810.00	52.82	0.00224	12.9	303.8	0.10806
802.00	48.90	0.00263	12.4	304.1	0.10102
792.00	47.59	0.00310	12.1	304.9	0.09956
782.00	46.89	0.00357	11.4	305.3	0.09936
772.80	46.47	0.00400	10.3	305.2	0.09964
763.00	45.55	0.00446	9.6	305.4	0.09892
754.40	44.54	0.00486	8.2	304.9	0.09784
746.00	44.63	0.00526	7.4	305.1	0.09913
736.80	45.21	0.00570	6.7	305.4	0.10167
727.00	44.59	0.00617	5.7	305.4	0.10164
718.00	43.81	0.00660	4.9	305.7	0.10110
709.00	43.06	0.00703	4.7	306.5	0.10063
700.00	42.18	0.00745	4.1	307.0	0.09985
690.00	41.86	0.00793	3.4	307.5	0.10053
681.20	41.98	0.00836	2.8	308.0	0.10213
672.00	41.89	0.00881	2.4	308.7	0.10328
664.00	43.77	0.00922	2.2	309.6	0.10923
655.00	46.40	0.00972	2.2	310.8	0.11737
647.00	46.52	0.01017	2.5	312.2	0.11914
638.00	47.64	0.01070	2.9	313.9	0.12373
630.00	47.64	0.01117	3.1	315.2	0.12530
621.00	46.74	0.01170	2.5	315.9	0.12472
613.00	46.33	0.01218	2.2	316.7	0.12524
605.00	46.02	0.01265	1.8	317.4	0.12604
596.80	45.68	0.01315	1.0	317.7	0.12683
589.00	45.78	0.01362	0.7	318.6	0.12878
580.80	45.87	0.01413	0.0	319.1	0.13088
572.00	46.67	0.01469	-0.7	319.6	0.13520
565.00	47.06	0.01515	-1.3	320.0	0.13801
557.00	47.03	0.01568	-2.2	320.3	0.13992
549.30	45.48	0.01618	-2.8	320.8	0.13720
541.00	44.92	0.01672	-3.5	321.4	0.13760
534.00	43.63	0.01717	-4.3	321.7	0.13539
527.00	40.92	0.01759	-4.8	322.2	0.12867
520.00	34.97	0.01796	-5.1	323.2	0.11143
512.00	27.85	0.01831	-5.2	324.4	0.09012
504.60	25.32	0.01860	-6.0	324.8	0.08313
497.00	26.07	0.01891	-7.1	324.8	0.08690
490.00	26.46	0.01920	-8.3	324.7	0.08948
483.00	26.11	0.01950	-9.2	325.0	0.08957
476.00	25.34	0.01979	-10.1	325.2	0.08822
469.00	25.40	0.02009	-10.8	325.7	0.08973
461.50	25.45	0.02041	-11.3	326.5	0.09139
454.00	25.85	0.02075	-11.9	327.4	0.09436
447.00	27.59	0.02109	-12.5	328.1	0.10229
439.00	29.92	0.02151	-13.1	329.0	0.11292
432.40	30.82	0.02188	-14.0	329.3	0.11810
425.00	32.51	0.02233	-14.6	330.2	0.12676
418.00	32.78	0.02276	-15.1	331.1	0.12995
412.00	31.17	0.02311	-16.0	331.3	0.12538
404.80	28.48	0.02351	-16.7	332.0	0.11657
398.00	25.54	0.02385	-18.0	332.0	0.10633

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
391.00	23.88	0.02418	-18.8	332.6	0.10121
385.00	21.88	0.02445	-19.5	333.2	0.09416
378.00	20.11	0.02474	-20.3	333.8	0.08816
372.00	17.34	0.02496	-21.2	334.2	0.07722
365.40	15.92	0.02519	-22.3	334.4	0.07218
359.00	20.17	0.02547	-23.4	334.6	0.09312
353.00	18.37	0.02571	-24.2	335.2	0.08625
347.50	12.97	0.02587	-25.3	335.2	0.06184
341.70	13.01	0.02605	-26.3	335.4	0.06310
335.00	14.38	0.02627	-27.4	336.0	0.07114
330.00	17.99	0.02648	-28.0	336.5	0.09031
324.00	20.67	0.02678	-28.3	337.9	0.10573
318.40	24.22	0.02712	-28.8	338.9	0.12603
312.50	25.12	0.02749	-29.4	339.8	0.13317
307.50	24.34	0.02780	-30.3	340.1	0.13117
302.00	22.69	0.02812	-31.4	340.4	0.12449
296.50	22.83	0.02845	-32.2	341.1	0.12759
290.00	21.90	0.02884	-33.3	341.6	0.12516
284.30	21.44	0.02917	-34.4	342.0	0.12496
279.00	21.44	0.02949	-35.6	342.1	0.12734
273.50	21.36	0.02983	-36.7	342.4	0.12942
268.50	20.92	0.03013	-37.9	342.6	0.12912
263.30	20.92	0.03045	-38.7	343.3	0.13167
258.30	20.02	0.03076	-40.2	343.0	0.12843
253.30	20.08	0.03107	-41.3	343.2	0.13138
249.00	19.23	0.03133	-42.5	343.1	0.12794
244.20	18.32	0.03161	-43.7	343.2	0.12433
239.00	16.88	0.03190	-44.7	343.9	0.11706
234.30	15.38	0.03214	-45.9	344.0	0.10875
229.00	14.28	0.03240	-47.2	344.2	0.10331
225.00	15.43	0.03261	-47.7	345.2	0.11366
220.00	15.04	0.03288	-47.9	347.2	0.11326
216.00	14.54	0.03309	-48.1	348.8	0.11151
212.00	18.69	0.03336	-48.6	349.8	0.14610
207.50	20.93	0.03372	-49.4	350.6	0.16716
203.00	20.93	0.03408	-50.5	351.2	0.17087
198.40	20.94	0.03446	-51.5	351.8	0.17492
194.00	20.94	0.03483	-53.0	351.7	0.17889
190.50	20.97	0.03513	-54.3	351.4	0.18238
187.00	21.45	0.03545	-55.7	351.1	0.19009
183.00	24.99	0.03587	-56.3	352.3	0.22630
179.00	28.22	0.03636	-56.9	353.5	0.26123
175.20	27.85	0.03684	-57.6	354.6	0.26339
171.00	32.87	0.03747	-58.2	356.0	0.31846
167.60	15.75	0.03772	-58.8	357.0	0.15570
164.00	13.66	0.03795	-59.7	357.8	0.13803
160.70	13.66	0.03817	-60.6	358.3	0.14086
157.00	13.67	0.03842	-61.3	359.5	0.14426
153.70	14.38	0.03866	-61.6	361.3	0.15503
150.00	15.88	0.03897	-61.8	363.4	0.17545
146.50	17.51	0.03929	-62.8	364.2	0.19809
143.00	17.45	0.03963	-63.0	366.3	0.20219
140.20	17.93	0.03991	-63.3	368.0	0.21196
137.00	17.88	0.04023	-63.5	370.0	0.21624
134.20	20.64	0.04057	-64.0	371.2	0.25487

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
131.00	22.08	0.04099	-65.0	372.0	0.27933
128.20	22.98	0.04138	-65.0	374.3	0.29698
125.00	24.26	0.04187	-65.3	376.5	0.32155
122.30	25.20	0.04230	-65.6	378.4	0.34145
119.00	26.89	0.04288	-65.6	381.3	0.37441
116.20	27.40	0.04340	-64.5	385.9	0.39078
113.00	29.41	0.04405	-63.5	390.9	0.43126
110.30	30.86	0.04463	-64.0	392.6	0.46360
107.00	33.92	0.04545	-64.3	395.6	0.52531
104.50	37.72	0.04615	-62.8	401.1	0.59807
102.00	40.01	0.04692	-61.8	405.8	0.64991
98.90	40.63	0.04791	-62.8	407.5	0.68079
96.50	38.99	0.04866	-63.5	408.9	0.66942
93.90	40.08	0.04953	-63.5	412.1	0.70720
91.10	43.97	0.05058	-63.5	415.7	0.79974
88.70	47.77	0.05159	-63.3	419.4	0.89233
86.30	51.09	0.05269	-63.0	423.2	0.98099
83.90	57.00	0.05396	-61.8	429.1	1.12564
81.50	63.78	0.05542	-61.6	433.1	1.29667
79.10	67.28	0.05701	-61.3	437.3	1.40940
76.80	70.82	0.05866	-61.1	441.5	1.52806
74.50	77.79	0.06053	-61.1	445.4	1.73027
72.50	83.98	0.06233	-60.9	449.3	1.91938
70.40	90.09	0.06442	-60.4	454.1	2.12046
68.20	96.76	0.06685	-59.5	460.2	2.35081
66.30	101.89	0.06912	-59.1	464.9	2.54641
64.10	106.28	0.07195	-58.4	470.8	2.74747
62.40	114.12	0.07438	-57.3	476.8	3.03040
60.40	121.62	0.07750	-56.5	483.1	3.33648
58.70	123.47	0.08029	-56.3	487.5	3.48539
56.80	127.65	0.08360	-56.1	492.5	3.72392
55.00	129.67	0.08690	-55.7	498.0	3.90656
53.20	136.11	0.09048	-54.7	505.1	4.23951
51.50	140.53	0.09408	-53.6	512.5	4.52160
49.80	142.69	0.09786	-53.2	518.3	4.74772
48.20	141.22	0.10150	-53.4	522.7	4.85472
46.60	139.01	0.10521	-53.2	528.2	4.94294
45.10	138.93	0.10880	-53.2	533.2	5.10435
43.50	140.76	0.11281	-53.0	539.2	5.36184
42.10	143.43	0.11651	-52.8	544.7	5.64507
40.60	146.57	0.12071	-52.6	550.8	5.98184
39.00	149.34	0.12545	-52.5	557.7	6.34489
37.50	153.76	0.13022	-52.3	564.4	6.79398
36.00	158.61	0.13533	-52.3	571.0	7.30067
34.70	162.58	0.14005	-51.9	578.0	7.76358
33.30	162.39	0.14533	-51.0	587.2	8.08053
32.00	163.38	0.15047	-50.8	594.4	8.46026
30.60	162.83	0.15622	-50.8	602.1	8.81736
29.30	162.81	0.16180	-49.9	612.0	9.20763
27.90	163.27	0.16811	-48.6	624.4	9.69679
26.50	163.62	0.17476	-48.7	633.2	10.23064
25.10	163.18	0.18175	-48.6	643.6	10.77223
23.70	160.54	0.18903	-47.7	656.7	11.22402
22.60	157.02	0.19492	-47.1	667.6	11.51228
21.40	153.41	0.20153	-46.7	679.1	11.87841

Table 11 (continued)

WASHINGTON,D.C. 8/7/69 1640Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
20.40	150.58	0.20722	-46.3	689.9	12.23077
19.60	149.72	0.21195	-45.0	701.8	12.65724
18.75	149.61	0.21718	-44.8	711.2	13.22158
17.80	148.29	0.22327	-44.8	721.8	13.80430
17.30	142.96	0.22649	-45.1	726.7	13.69322
16.60	140.38	0.23106	-45.1	735.4	14.01262
16.00	135.95	0.23502	-44.7	744.7	14.07894
15.40	127.60	0.23887	-44.2	754.4	13.72902
14.90	123.01	0.24207	-43.6	763.6	13.67964
14.30	120.42	0.24598	-43.4	773.1	13.95307
13.86	117.50	0.24888	-43.1	781.1	14.04756
13.40	114.30	0.25193	-43.3	788.1	14.13372
12.95	111.58	0.25493	-42.8	797.5	14.27678
12.50	107.91	0.25795	-42.1	808.2	14.30461
12.10	103.29	0.26060	-41.2	818.9	14.14418
11.75	100.23	0.26292	-41.0	826.3	14.13451
11.37	97.72	0.26546	-40.4	836.2	14.24155
11.00	93.95	0.26791	-39.1	848.9	14.15213
10.70	91.37	0.26991	-38.3	858.7	14.14972
10.40	89.62	0.27192	-38.3	865.7	14.27897
10.13	87.23	0.27373	-38.3	872.3	14.26869
9.80	85.26	0.27596	-38.3	880.6	14.41607
9.55	82.66	0.27765	-38.3	887.1	14.34210
9.30	79.23	0.27931	-38.6	892.8	14.11589
9.10	77.85	0.28064	-38.6	898.3	14.17586
8.90	75.21	0.28196	-38.1	905.7	14.00278
8.67	73.88	0.28349	-38.3	911.9	14.11900
8.50	72.42	0.28462	-38.7	915.4	14.11718
8.37	71.07	0.28549	-38.7	919.5	14.07060
8.23	70.35	0.28643	-37.7	927.8	14.16498
8.10	69.05	0.28729	-36.9	935.4	14.12546
7.90	69.26	0.28866	-35.9	945.9	14.52717
7.85	69.84	0.28901	-35.5	949.3	14.74209

Table 12

WASHINGTON,D.C. 9/11/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
950.00	16.8	8.1	7.07931	294.3		
939.00	15.7	8.1	7.16320	294.1	0.07993249	0.07993249
928.00	14.2	7.2	6.79089	293.6	0.07831378	0.15824627
917.50	13.0	6.3	6.44833	293.3	0.07092439	0.22917065
907.00	11.4	5.4	6.13546	292.6	0.06741314	0.29658379
895.00	10.2	4.5	5.85882	292.5	0.07343437	0.37001816
883.00	8.9	4.5	5.93920	292.2	0.07223282	0.44225098
872.00	8.0	3.7	5.67636	292.4	0.06518938	0.50744035
862.00	6.8	4.5	6.08531	292.1	0.06000851	0.56744886
852.00	6.0	4.5	6.15744	292.2	0.06246302	0.62991188
842.00	5.4	4.5	6.23130	292.6	0.06320788	0.69311976
832.00	4.5	4.5	6.30696	292.7	0.06397072	0.75709048
821.00	4.1	4.5	6.39233	293.4	0.07127151	0.82836199
812.00	4.1	4.5	6.46392	294.3	0.05903378	0.88739577
802.00	4.8	-11.2	1.81243	296.1	0.04222624	0.92962201
791.00	5.5	-26.2	0.43907	298.0	0.01263593	0.94225794
780.00	6.0	-30.1	0.29942	299.7	0.00414457	0.94640251
770.00	5.8	-29.4	0.32835	300.6	0.00320293	0.94960544
760.00	5.3	-28.6	0.36090	301.1	0.00351661	0.95312205
750.00	4.7	-26.9	0.43340	301.6	0.00405254	0.95717459
741.00	4.1	-25.1	0.52526	302.1	0.00440199	0.96157658
731.00	3.6	-16.5	1.22561	302.6	0.00893302	0.97050960
721.00	2.7	-23.9	0.60782	302.9	0.00935424	0.97986384
712.50	2.0	-23.4	0.64588	303.2	0.00543697	0.98530081
704.00	1.2	-22.4	0.72269	303.3	0.00593513	0.99123595
695.00	0.4	-23.4	0.66216	303.5	0.00635902	0.99759497
686.00	0.1	-30.5	0.32748	304.3	0.00454425	1.00213921
677.00	-0.0	-30.5	0.33183	305.3	0.00302743	1.00516664
667.00	-0.7	-26.5	0.50930	305.9	0.00429147	1.00945812
658.00	-1.4	-27.1	0.48340	306.3	0.00455833	1.01401644
649.00	-2.2	-29.2	0.39754	306.6	0.00404517	1.01806161
640.00	-2.6	-31.9	0.30182	307.4	0.00321134	1.02127296
630.00	-2.7	-32.8	0.27996	308.6	0.00296827	1.02424122
621.00	-2.8	-29.2	0.41548	309.7	0.00319337	1.02743459
612.00	-3.5	-23.9	0.71620	310.3	0.00519650	1.03263109
603.50	-4.3	-24.9	0.66029	310.6	0.00596947	1.03860056
594.00	-5.2	-28.6	0.46184	310.9	0.00543886	1.04403942
586.00	-6.0	-32.8	0.30100	311.2	0.00311360	1.04715302
577.00	-6.6	-28.4	0.48540	311.9	0.00361101	1.05076403
568.50	-7.6	-27.5	0.53599	312.1	0.00442952	1.05519355
560.00	-8.2	-28.2	0.51069	312.7	0.00453918	1.05973273
551.00	-9.1	-29.9	0.43236	313.1	0.00433032	1.06406305
542.00	-9.7	-31.4	0.37688	313.8	0.00371587	1.06777892
534.00	-10.5	-33.4	0.30770	314.2	0.00279417	1.07057309
526.00	-11.3	-33.4	0.31238	314.6	0.00253092	1.07310401
518.00	-12.0	-33.3	0.32284	315.1	0.00259272	1.07569673
510.00	-12.9	-33.9	0.30579	315.4	0.00256581	1.07826255
501.50	-13.8	-34.4	0.29538	315.8	0.00260712	1.08086966
493.00	-14.5	-34.9	0.28563	316.6	0.00251972	1.08338938
486.00	-15.4	-35.6	0.26672	316.8	0.00197271	1.08536209
478.00	-16.1	-35.5	0.27567	317.4	0.00221387	1.08757596
470.00	-17.0	-35.6	0.27581	317.8	0.00225095	1.08982690
463.00	-17.8	-38.9	0.19575	318.2	0.00168413	1.09151104
456.00	-18.6	-40.9	0.15788	318.6	0.00126297	1.09277400
449.00	-19.4	-42.9	0.12726	318.9	0.00101837	1.09379237

Table 12 (continued)

WASHINGTON,D.C. 9/11/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
442.00	-20.3	-44.5	0.10783	319.2	0.00083963	1.09463201
434.00	-21.0	-45.2	0.10056	320.1	0.00085060	1.09548261
427.00	-21.8	-44.8	0.10747	320.6	0.00074296	1.09622557
420.00	-22.5	-39.0	0.21263	321.1	0.00114319	1.09736877
413.00	-23.3	-32.8	0.42717	321.7	0.00228498	1.09965374
406.00	-24.4	-31.0	0.52259	321.9	0.00339198	1.10304572
398.50	-25.3	-31.0	0.53243	322.4	0.00403707	1.10708279
392.00	-25.9	-34.6	0.37158	323.1	0.00299801	1.11008080
385.50	-26.7	-35.2	0.35334	323.6	0.00240410	1.11248489
379.00	-27.5	-35.2	0.35941	324.1	0.00236372	1.11484861
372.50	-28.6	-35.6	0.34804	324.3	0.00234612	1.11719474
366.00	-29.5	-37.5	0.28810	324.7	0.00210965	1.11930439
359.50	-30.5	-39.8	0.22759	325.0	0.00171019	1.12101458
352.50	-31.7	-41.9	0.18292	325.2	0.00146608	1.12248066
347.00	-33.0	-43.7	0.15026	325.0	0.00093494	1.12341560
340.00	-34.1	-44.3	0.14381	325.3	0.00105026	1.12446586
334.00	-35.3	-44.0	0.15019	325.4	0.00089999	1.12536585
327.50	-36.4	-44.6	0.14371	325.6	0.00097466	1.12634051
321.50	-37.8	-44.1	0.15404	325.5	0.00091148	1.12725199
315.00	-38.7	-44.4	0.15326	326.2	0.00101910	1.12827109
309.50	-39.9	-47.7	0.10425	326.1	0.00072259	1.12899368
304.00	-41.0	-50.1	0.07973	326.2	0.00051625	1.12950993
298.00	-41.8	-51.0	0.07281	327.0	0.00046694	1.12997687
292.00	-43.1	-51.4	0.07035	327.0	0.00043824	1.13041511
286.00	-44.1	-51.7	0.06952	327.6	0.00042819	1.13084330
281.00	-45.3	-51.4	0.07310	327.5	0.00036385	1.13120715
275.00	-46.3	-51.8	0.07153	328.0	0.00044275	1.13164990
269.00	-47.4	-53.3	0.06034	328.6	0.00040366	1.13205356
264.00	-48.6	-53.9	0.05712	328.5	0.00029964	1.13235320
259.00	-49.6	-53.7	0.05946	328.9	0.00029740	1.13265060
253.50	-50.3	-53.7	0.06075	329.8	0.00033731	1.13298791
248.00	-51.5	-54.3	0.05772	330.2	0.00033244	1.13332035
243.00	-52.3	-54.6	0.05652	330.9	0.00029143	1.13361179
238.00	-53.3	-54.7	0.05711	331.4	0.00028988	1.13390167
233.00	-54.1	-54.2	0.06208	332.1	0.00030407	1.13420574
228.00	-54.8	-53.4	0.06970	333.2	0.00033619	1.13454192
223.00	-55.6	-53.2	0.07356	334.0	0.00036545	1.13490738
218.00	-55.8	-54.5	0.06366	335.8	0.00035003	1.13525741
213.50	-55.6	-55.1	0.05986	338.2	0.00028357	1.13554098
209.00	-55.2	-53.7	0.07368	340.9	0.00030660	1.13584758
204.00	-54.3	-52.9	0.08388	344.6	0.00040196	1.13624954
199.00	-52.7	-68.6	0.01003	349.7	0.00023958	1.13648912
194.40	-51.5	-69.6	0.00893	354.0	0.00004450	1.13653362
190.00	-51.9	-70.2	0.00834	355.6	0.00003878	1.13657240
185.70	-52.3	-70.4	0.00820	357.3	0.00003629	1.13660869
181.50	-52.5	-71.3	0.00742	359.4	0.00003347	1.13664216
177.00	-52.9	-72.1	0.00672	361.3	0.00003247	1.13667463
172.50	-53.5	-72.2	0.00675	362.9	0.00003093	1.13670556
168.50	-53.7	-73.5	0.00566	365.0	0.00002532	1.13673089
164.00	-53.7	-74.9	0.00467	367.9	0.00002372	1.13675460
160.60	-53.9	-74.8	0.00488	369.7	0.00001657	1.13677118
157.00	-54.1	-74.2	0.00545	371.8	0.00001897	1.13679015
153.00	-54.3	-73.6	0.00616	374.2	0.00002369	1.13681384
149.00	-55.0	-73.0	0.00689	375.9	0.00002664	1.13684048
145.50	-55.8	-72.8	0.00736	377.0	0.00002545	1.13686593

Table 12 (continued)

WASHINGTON,D.C. 9/11/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
142.00	-56.7	-73.0	0.00731	378.0	0.00002619	1.13689212
138.00	-57.9	-73.8	0.00661	379.1	0.00002841	1.13692053
134.00	-58.3	-74.3	0.00631	381.5	0.00002639	1.13694692
130.50	-58.8	-73.6	0.00722	383.5	0.00002418	1.13697109
127.00	-60.0	-72.1	0.00937	384.3	0.00002963	1.13700072
123.40	-59.5	-70.3	0.01259	388.4	0.00004033	1.13704105
120.00	-59.1	-75.1	0.00618	392.4	0.00003256	1.13707361
116.50	-58.6	-76.0	0.00556	396.6	0.00002097	1.13709458
113.00	-58.3	-76.4	0.00536	400.5	0.00001950	1.13711407
110.00	-58.3	-76.4	0.00550	403.6	0.00001662	1.13713069
107.00	-58.3	-76.3	0.00579	406.8	0.00001728	1.13714797
104.00	-58.6	-76.8	0.00549	409.7	0.00001727	1.13716524
101.00	-58.6	-77.0	0.00546	413.1	0.00001677	1.13718201
98.10	-58.6	-78.1	0.00471	416.6	0.00001505	1.13719705
95.50	-58.3	-79.0	0.00418	420.2	0.00001179	1.13720884
92.80	-58.3	-79.4	0.00404	423.7	0.00001132	1.13722015
90.00	-58.1	-79.6	0.00401	427.9	0.00001150	1.13723165
87.50	-57.9	-79.9	0.00397	431.8	0.00001018	1.13724183
84.80	-57.2	-80.0	0.00399	437.1	0.00001097	1.13725279
82.10	-57.0	-80.0	0.00412	441.6	0.00001118	1.13726397
79.50	-57.6	-80.0	0.00431	444.3	0.00001119	1.13727517
77.10	-57.9	-80.0	0.00445	447.7	0.00001073	1.13728589
74.50	-57.9	-80.3	0.00437	452.1	0.00001170	1.13729759
72.40	-58.1	-81.2	0.00384	455.3	0.00000880	1.13730640
70.00	-58.1	-81.9	0.00352	459.8	0.00000901	1.13731541
67.80	-57.2	-82.4	0.00339	466.0	0.00000775	1.13732316
65.30	-56.5	-82.6	0.00337	472.5	0.00000862	1.13733178
63.20	-55.6	-82.9	0.00334	478.8	0.00000719	1.13733897
61.00	-54.5	-83.2	0.00327	486.1	0.00000741	1.13734639
59.00	-53.9	-83.4	0.00328	492.2	0.00000668	1.13735307
56.90	-52.9	-83.5	0.00330	499.6	0.00000705	1.13736012
54.80	-52.9	-83.7	0.00333	505.0	0.00000711	1.13736723
52.90	-52.9	-83.9	0.00335	510.1	0.00000648	1.13737370
51.20	-53.3	-83.7	0.00356	514.0	0.00000600	1.13737970
49.30	-53.5	-83.5	0.00387	519.1	0.00000721	1.13738691
47.50	-52.9	-83.4	0.00407	526.1	0.00000730	1.13739420

Table 13

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1000.00					
892.00	51.13	0.00461	-1.4	280.8	0.09497
878.00	48.74	0.00522	0.1	283.6	0.09199
862.00	47.00	0.00590	1.3	286.4	0.09035
850.00	44.30	0.00639	2.6	288.9	0.08636
835.00	43.32	0.00700	3.7	291.5	0.08596
820.00	43.29	0.00762	4.4	293.8	0.08748
808.00	44.53	0.00814	4.7	295.3	0.09132
793.00	44.38	0.00880	5.5	297.8	0.09273
780.00	42.20	0.00935	6.1	299.8	0.08964
769.00	41.02	0.00981	5.8	300.7	0.08839
756.00	42.33	0.01038	5.3	301.6	0.09278
741.00	44.17	0.01108	4.3	302.2	0.09878
730.00	48.34	0.01165	3.7	302.9	0.10972
718.00	63.60	0.01248	3.0	303.6	0.14677
706.00	53.55	0.01319	2.2	304.1	0.12569
695.00	51.79	0.01384	1.3	304.6	0.12348
682.00	50.87	0.01459	0.5	305.3	0.12359
670.00	47.69	0.01526	-0.3	305.9	0.11794
660.00	43.22	0.01578	-0.8	306.7	0.10850
649.00	39.53	0.01630	-1.8	307.1	0.10094
637.50	41.70	0.01689	-2.4	307.9	0.10839
626.00	43.19	0.01751	-3.2	308.6	0.11432
614.00	40.05	0.01812	-3.9	309.5	0.10808
604.00	38.91	0.01863	-4.7	310.1	0.10674
593.00	40.72	0.01922	-5.3	310.9	0.11378
582.00	38.31	0.01978	-6.3	311.5	0.10909
572.50	40.74	0.02031	-7.2	311.9	0.11793
563.00	44.47	0.02090	-8.5	311.9	0.13087
552.00	48.72	0.02166	-9.5	312.5	0.14626
542.00	47.32	0.02234	-10.6	312.7	0.14468
532.00	50.49	0.02308	-11.7	313.2	0.15725
521.00	49.50	0.02390	-12.6	314.0	0.15744
511.00	47.91	0.02463	-13.5	314.6	0.15537
500.00	45.49	0.02542	-14.5	315.3	0.15076
490.00	45.01	0.02613	-15.4	316.1	0.15222
480.00	37.37	0.02674	-16.5	316.5	0.12901
471.00	37.48	0.02730	-17.7	316.8	0.13186
461.00	32.80	0.02786	-18.3	318.0	0.11791
452.00	33.72	0.02838	-19.2	318.6	0.12363
442.00	32.74	0.02896	-20.1	319.6	0.12275
433.00	31.28	0.02947	-20.9	320.5	0.11971
424.00	28.37	0.02994	-22.1	320.7	0.11086
414.00	28.37	0.03048	-23.3	321.4	0.11354
405.00	28.18	0.03096	-24.5	321.9	0.11529
396.30	31.20	0.03150	-25.7	322.4	0.13047
388.00	25.72	0.03193	-26.7	323.0	0.10982
379.00	22.79	0.03235	-27.8	323.7	0.09964
370.00	22.51	0.03278	-29.1	324.2	0.10081
362.00	22.50	0.03317	-30.4	324.6	0.10297
353.00	22.04	0.03360	-31.7	325.1	0.10346
345.40	20.63	0.03396	-33.1	325.2	0.09898
337.00	19.81	0.03434	-34.4	325.8	0.09741
328.50	20.15	0.03475	-35.9	326.2	0.10166
320.00	20.07	0.03517	-37.5	326.4	0.10393
312.50	20.50	0.03555	-39.3	326.1	0.10868

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
304.00	21.28	0.03601	-41.0	326.2	0.11600
297.50	20.83	0.03637	-42.6	326.0	0.11604
290.00	20.37	0.03678	-44.3	326.0	0.11641
283.20	20.36	0.03716	-45.8	326.0	0.11914
276.00	20.28	0.03757	-47.0	326.7	0.12174
269.00	19.39	0.03797	-48.3	327.3	0.11944
262.00	17.66	0.03833	-49.6	327.8	0.11167
255.00	17.19	0.03870	-50.7	328.7	0.11168
248.00	21.37	0.03917	-51.5	330.2	0.14282
241.50	21.94	0.03963	-52.1	331.8	0.15055
235.00	22.71	0.04012	-52.7	333.5	0.16015
229.00	23.39	0.04060	-53.7	334.4	0.16928
223.00	25.26	0.04113	-54.5	335.6	0.18768
217.50	25.70	0.04163	-55.6	336.4	0.19578
212.00	27.01	0.04218	-56.3	337.8	0.21112
206.50	26.92	0.04274	-56.3	340.4	0.21601
201.00	30.38	0.04339	-53.1	348.1	0.25045
195.70	32.21	0.04407	-52.1	352.3	0.27274
191.00	32.64	0.04469	-52.1	354.8	0.28316
186.50	30.29	0.04526	-51.7	357.9	0.26914
182.00	26.67	0.04578	-51.5	360.7	0.24285
177.30	25.34	0.04630	-51.3	363.7	0.23686
173.00	26.47	0.04681	-51.3	366.3	0.25348
169.00	27.55	0.04732	-51.5	368.4	0.27012
165.00	27.11	0.04784	-51.5	370.9	0.27229
161.30	25.48	0.04829	-51.5	373.3	0.26174
157.50	22.38	0.04871	-51.5	375.9	0.23542
153.80	21.34	0.04911	-52.5	376.8	0.22993
150.00	21.34	0.04954	-53.5	377.7	0.23575
146.20	21.75	0.04998	-54.8	378.3	0.24650
142.50	22.25	0.05043	-55.6	379.6	0.25878
139.30	22.24	0.05083	-57.0	379.7	0.26457
136.00	21.55	0.05123	-57.9	380.7	0.26258
132.00	21.87	0.05175	-58.6	382.7	0.27452
128.00	22.69	0.05230	-58.3	386.5	0.29373
125.00	23.14	0.05273	-59.3	387.4	0.30674
122.00	24.04	0.05319	-60.3	388.3	0.32649
118.50	29.45	0.05387	-60.3	391.5	0.41174
115.00	34.22	0.05468	-60.3	394.9	0.49313
112.00	33.20	0.05537	-59.8	398.8	0.49114
109.00	32.62	0.05607	-59.3	402.9	0.49588
106.00	34.24	0.05683	-59.1	406.5	0.53517
103.00	38.30	0.05770	-58.8	410.4	0.61612
101.00	40.29	0.05832	-58.6	413.1	0.66102
98.20	43.70	0.05929	-58.6	416.5	0.73732
95.80	46.12	0.06019	-58.3	419.9	0.79770
93.20	53.19	0.06135	-57.9	424.1	0.94562
91.10	56.16	0.06236	-58.6	425.5	1.02140
88.80	57.32	0.06351	-59.1	427.6	1.06963
86.60	59.04	0.06468	-58.6	431.7	1.12975
84.50	64.01	0.06592	-57.9	436.1	1.25513
82.40	71.06	0.06734	-57.2	440.7	1.42899
80.40	76.80	0.06883	-56.7	444.7	1.58277
78.50	81.73	0.07037	-57.0	447.3	1.72513
76.60	86.50	0.07204	-57.6	449.0	1.87121

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
74.90	93.43	0.07370	-57.9	451.4	2.06699
73.00	98.29	0.07569	-57.4	455.7	2.23095
71.30	98.62	0.07753	-57.2	459.3	2.29201
69.70	98.52	0.07929	-57.0	462.8	2.34214
67.80	97.68	0.08142	-56.7	466.9	2.38724
66.00	99.35	0.08353	-56.7	470.5	2.49429
64.50	102.99	0.08540	-56.3	474.6	2.64589
63.00	107.32	0.08740	-55.6	479.3	2.82258
61.40	110.70	0.08965	-54.8	484.7	2.98751
60.00	114.59	0.09173	-53.7	490.3	3.16455
58.70	115.60	0.09373	-53.9	492.9	3.26316
59.30	113.69	0.09282	-54.1	491.0	3.17667
56.00	116.57	0.09809	-53.9	499.6	3.44935
54.70	113.93	0.10020	-53.5	503.9	3.45112
53.40	113.84	0.10236	-53.5	507.4	3.53247
52.10	116.12	0.10462	-53.3	511.4	3.69306
51.00	119.78	0.10664	-53.3	514.6	3.89179
49.80	125.98	0.10901	-53.1	518.5	4.19182
48.60	128.33	0.11148	-52.7	523.1	4.37535
47.50	132.29	0.11387	-52.1	528.0	4.61487
46.50	135.42	0.11615	-52.1	531.2	4.82556
45.50	137.37	0.11851	-51.9	535.0	5.00260
44.50	138.13	0.12093	-52.1	537.9	5.14354
43.50	140.77	0.12346	-52.5	540.5	5.36233
42.60	143.89	0.12583	-52.3	544.2	5.59694
41.60	144.66	0.12854	-51.9	548.9	5.76210
40.60	145.83	0.13135	-51.7	553.2	5.95162
39.70	147.28	0.13395	-51.3	557.8	6.14738
38.80	149.22	0.13665	-50.7	562.9	6.37271
37.90	151.16	0.13946	-50.5	567.2	6.60874
37.00	154.52	0.14239	-50.1	572.1	6.92018
36.20	155.42	0.14507	-50.1	575.6	7.11418
35.40	156.54	0.14783	-50.5	578.3	7.32724
34.60	157.89	0.15068	-50.5	582.1	7.56154
33.80	159.60	0.15363	-50.1	587.0	7.82399
33.00	160.54	0.15667	-49.9	591.6	8.06125
32.20	160.63	0.15978	-49.8	596.2	8.26595
31.50	159.75	0.16255	-49.8	600.0	8.40315
30.80	158.92	0.16537	-49.9	603.3	8.54987
30.10	158.49	0.16825	-50.1	606.8	8.72479
29.40	157.24	0.17117	-50.1	610.9	8.86204
28.80	154.17	0.17368	-50.3	614.0	8.86991
28.10	152.65	0.17664	-50.7	617.3	9.00163
27.50	151.49	0.17922	-50.7	621.1	9.12786
26.80	152.32	0.18233	-50.7	625.7	9.41798
26.10	154.13	0.18555	-50.3	631.5	9.78515
25.50	157.19	0.18843	-49.9	636.8	10.21446
24.90	158.95	0.19142	-48.3	645.9	10.57745
24.20	160.57	0.19504	-46.7	655.9	10.99419
23.70	161.35	0.19770	-46.5	660.3	11.28122
23.10	161.73	0.20097	-46.5	665.2	11.60137
22.60	160.68	0.20375	-46.7	668.8	11.78114
22.20	159.22	0.20599	-46.8	671.7	11.88418
21.60	157.03	0.20939	-46.5	678.1	12.04644
21.10	151.39	0.21219	-46.0	684.2	11.88862

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
20.60	155.21	0.21513	-45.4	690.5	12.48440
20.10	155.55	0.21814	-45.1	696.4	12.82309
19.60	153.61	0.22120	-44.8	702.4	12.98624
19.15	153.57	0.22402	-44.8	707.1	13.28838
18.70	154.00	0.22691	-44.6	712.5	13.64589
18.30	154.00	0.22954	-44.3	717.9	13.94416
17.90	152.65	0.23220	-44.1	723.0	14.13105
17.45	150.87	0.23523	-43.6	729.9	14.32608
17.00	148.97	0.23831	-44.3	733.2	14.52032
16.65	147.47	0.24073	-44.8	735.9	14.67614
16.25	146.41	0.24354	-45.1	740.0	14.92904
15.90	145.71	0.24604	-45.3	744.0	15.18530
15.50	141.53	0.24889	-45.8	747.8	15.13034
15.15	138.96	0.25140	-46.0	752.1	15.19802
14.80	138.58	0.25395	-46.0	757.1	15.51499
14.40	137.82	0.25694	-45.4	764.8	15.85871
14.10	138.96	0.25925	-44.9	771.2	16.32979
13.75	137.13	0.26197	-44.3	779.0	16.52599
13.40	136.01	0.26474	-43.3	788.2	16.81887
13.10	134.57	0.26714	-42.9	794.4	17.02189
12.80	132.33	0.26956	-42.0	803.1	17.13025
12.50	128.70	0.27197	-41.2	811.3	17.05995
12.20	126.53	0.27440	-40.7	818.7	17.18482
11.90	124.77	0.27685	-40.1	826.7	17.37399
11.70	122.86	0.27850	-39.5	832.9	17.39971
11.40	118.37	0.28092	-38.7	841.9	17.20516
11.10	115.37	0.28335	-38.4	849.4	17.22195
10.85	113.54	0.28539	-38.1	856.1	17.33940
10.60	111.10	0.28744	-37.9	862.3	17.36649
10.30	109.96	0.28993	-38.1	868.9	17.68904
10.10	108.09	0.29161	-37.9	874.3	17.73399
9.85	105.07	0.29368	-37.8	881.2	17.67600
9.63	103.75	0.29554	-37.6	887.4	17.85109
9.40	100.25	0.29745	-37.3	894.7	17.67191
9.20	96.89	0.29909	-37.5	899.7	17.45047
9.02	94.01	0.30056	-37.3	905.3	17.27018
8.88	93.20	0.30171	-37.2	910.0	17.39154
8.80	90.94	0.30236	-37.2	912.3	17.12399
8.76	87.55	0.30268	-37.0	914.1	16.56079
8.74	86.85	0.30283	-37.0	914.7	16.46500

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
958.50					
950.00	57.90	0.00041	16.8	294.3	0.10099
939.00	57.47	0.00094	15.7	294.1	0.10141
928.00	56.37	0.00146	14.2	293.6	0.10066
917.50	56.04	0.00196	13.0	293.3	0.10120
907.00	55.86	0.00247	11.4	292.6	0.10206
895.00	55.31	0.00305	10.2	292.5	0.10240
883.00	54.68	0.00364	8.9	292.2	0.10261
872.00	54.19	0.00417	8.0	292.4	0.10297
862.00	53.73	0.00466	6.8	292.1	0.10329
852.00	53.18	0.00515	6.0	292.2	0.10343
842.00	50.64	0.00562	5.4	292.6	0.09965
832.00	50.22	0.00610	4.5	292.7	0.10001
821.00	49.14	0.00661	4.1	293.4	0.09917
812.00	47.26	0.00702	4.1	294.3	0.09645
802.00	47.24	0.00749	4.8	296.1	0.09760
791.00	48.14	0.00801	5.5	298.0	0.10085
780.00	47.33	0.00854	6.0	299.7	0.10054
770.00	46.66	0.00901	5.8	300.6	0.10040
760.00	44.80	0.00947	5.3	301.1	0.09767
750.00	43.72	0.00993	4.7	301.6	0.09660
741.00	42.47	0.01033	4.1	302.1	0.09496
731.00	41.39	0.01078	3.6	302.6	0.09381
721.00	40.97	0.01122	2.7	302.9	0.09415
712.50	40.57	0.01160	2.0	303.2	0.09436
704.00	40.55	0.01199	1.2	303.3	0.09544
695.00	40.53	0.01240	0.4	303.5	0.09663
686.00	39.45	0.01281	0.1	304.3	0.09529
677.00	37.62	0.01320	-0.0	305.3	0.09207
667.00	37.51	0.01364	-0.7	305.9	0.09318
658.00	37.58	0.01404	-1.4	306.3	0.09463
649.00	37.90	0.01445	-2.2	306.6	0.09676
640.00	38.26	0.01488	-2.6	307.4	0.09906
630.00	38.60	0.01536	-2.7	308.6	0.10153
621.00	39.20	0.01580	-2.8	309.7	0.10458
612.00	39.54	0.01626	-3.5	310.3	0.10704
603.50	39.90	0.01670	-4.3	310.6	0.10954
594.00	40.33	0.01720	-5.2	310.9	0.11252
586.00	40.95	0.01764	-6.0	311.2	0.11580
577.00	41.08	0.01814	-6.6	311.9	0.11797
568.50	39.72	0.01861	-7.6	312.1	0.11577
560.00	37.89	0.01906	-8.2	312.7	0.11210
551.00	35.20	0.01951	-9.1	313.1	0.10585
542.00	33.71	0.01995	-9.7	313.8	0.10306
534.00	31.31	0.02032	-10.5	314.2	0.09715
526.00	30.50	0.02068	-11.3	314.6	0.09609
518.00	29.81	0.02104	-12.0	315.1	0.09536
510.00	28.31	0.02139	-12.9	315.4	0.09197
501.50	28.57	0.02177	-13.8	315.8	0.09440
493.00	26.39	0.02212	-14.5	316.6	0.08868
486.00	25.04	0.02241	-15.4	316.8	0.08539
478.00	26.09	0.02275	-16.1	317.4	0.09043
470.00	26.89	0.02311	-17.0	317.8	0.09481
463.00	28.63	0.02345	-17.8	318.2	0.10245
456.00	28.63	0.02379	-18.6	318.6	0.10402
449.00	27.89	0.02413	-19.4	318.9	0.10291

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
442.00	27.32	0.02447	-20.3	319.2	0.10243
434.00	27.77	0.02487	-21.0	320.1	0.10602
427.00	27.40	0.02522	-21.8	320.6	0.10634
420.00	24.14	0.02554	-22.5	321.1	0.09523
413.00	22.07	0.02583	-23.3	321.7	0.08853
406.00	20.86	0.02611	-24.4	321.9	0.08515
398.50	22.13	0.02644	-25.3	322.4	0.09201
392.00	21.66	0.02672	-25.9	323.1	0.09154
385.50	20.92	0.02699	-26.7	323.6	0.08991
379.00	20.17	0.02726	-27.5	324.1	0.08820
372.50	19.73	0.02753	-28.6	324.3	0.08775
366.00	19.00	0.02780	-29.5	324.7	0.08601
359.50	18.59	0.02806	-30.5	325.0	0.08570
352.50	19.69	0.02837	-31.7	325.2	0.09254
347.00	20.06	0.02862	-33.0	325.0	0.09579
340.00	20.86	0.02895	-34.1	325.3	0.10168
334.00	20.50	0.02924	-35.3	325.4	0.10169
327.50	19.47	0.02954	-36.4	325.6	0.09852
321.50	19.11	0.02982	-37.8	325.5	0.09847
315.00	18.81	0.03012	-38.7	326.2	0.09894
309.50	19.54	0.03040	-39.9	326.1	0.10463
304.00	20.35	0.03068	-41.0	326.2	0.11094
298.00	20.79	0.03101	-41.8	327.0	0.11559
292.00	21.09	0.03135	-43.1	327.0	0.11969
286.00	21.47	0.03170	-44.1	327.6	0.12440
281.00	21.53	0.03200	-45.3	327.5	0.12697
275.00	21.95	0.03238	-46.3	328.0	0.13224
269.00	23.16	0.03278	-47.4	328.6	0.14263
264.00	24.46	0.03314	-48.6	328.5	0.15352
259.00	25.97	0.03353	-49.6	328.9	0.16613
253.50	26.37	0.03398	-50.3	329.8	0.17234
248.00	27.19	0.03445	-51.5	330.2	0.18166
243.00	27.56	0.03489	-52.3	330.9	0.18794
238.00	28.41	0.03536	-53.3	331.4	0.19777
233.00	30.49	0.03587	-54.1	332.1	0.21681
228.00	31.71	0.03642	-54.8	333.2	0.23045
223.00	32.54	0.03698	-55.6	334.0	0.24180
218.00	34.28	0.03760	-55.8	335.8	0.26059
213.50	37.03	0.03821	-55.6	338.2	0.28738
209.00	38.55	0.03886	-55.2	340.9	0.30562
204.00	42.71	0.03967	-54.3	344.6	0.34694
199.00	47.79	0.04061	-52.7	349.7	0.39791
194.40	47.40	0.04148	-51.5	354.0	0.40404
190.00	47.01	0.04233	-51.9	355.6	0.41002
185.70	47.84	0.04320	-52.3	357.3	0.42686
181.50	47.86	0.04406	-52.5	359.4	0.43697
177.00	47.48	0.04501	-52.9	361.3	0.44446
172.50	46.44	0.04595	-53.5	362.9	0.44606
168.50	45.22	0.04679	-53.7	365.0	0.44468
164.00	43.56	0.04772	-53.7	367.9	0.44014
160.60	39.32	0.04837	-53.9	369.7	0.40568
157.00	37.18	0.04903	-54.1	371.8	0.39236
153.00	39.10	0.04983	-54.3	374.2	0.42342
149.00	40.62	0.05068	-55.0	375.9	0.45171
145.50	42.85	0.05148	-55.8	377.0	0.48797

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
142.00	43.68	0.05232	-56.7	378.0	0.50969
138.00	45.09	0.05334	-57.9	379.1	0.54144
134.00	45.14	0.05439	-58.3	381.5	0.55821
130.50	45.44	0.05534	-58.8	383.5	0.57694
127.00	47.96	0.05637	-60.0	384.3	0.62576
123.40	53.06	0.05757	-59.5	388.4	0.71248
120.00	58.62	0.05887	-59.1	392.4	0.80945
116.50	62.99	0.06034	-58.6	396.6	0.89592
113.00	61.36	0.06182	-58.3	400.5	0.89977
110.00	60.80	0.06311	-58.3	403.6	0.91592
107.00	63.69	0.06450	-58.3	406.8	0.98635
104.00	64.53	0.06595	-58.6	409.7	1.02807
101.00	68.44	0.06753	-58.6	413.1	1.12285
98.10	73.88	0.06923	-58.6	416.6	1.24797
95.50	79.14	0.07091	-58.3	420.2	1.37320
92.80	84.23	0.07281	-58.3	423.7	1.50395
90.00	87.33	0.07493	-58.1	427.9	1.60793
87.50	93.88	0.07701	-57.9	431.8	1.77781
84.80	100.44	0.07950	-57.2	437.1	1.96270
82.10	108.71	0.08228	-57.0	441.6	2.19401
79.50	124.00	0.08543	-57.6	444.3	2.58447
77.10	131.76	0.08862	-57.9	447.7	2.83165
74.50	139.51	0.09240	-57.9	452.1	3.10302
72.40	141.55	0.09559	-58.1	455.3	3.23955
70.00	135.78	0.09921	-58.1	459.8	3.21418
67.80	132.35	0.10254	-57.2	466.0	3.23464
65.30	133.51	0.10650	-56.5	472.5	3.38794
63.20	138.98	0.11009	-55.6	478.8	3.64394
61.00	140.30	0.11401	-54.5	486.1	3.81114
59.00	137.26	0.11763	-53.9	492.2	3.85484
56.90	140.68	0.12165	-52.9	499.6	4.09670
54.80	141.07	0.12584	-52.9	505.0	4.26567
52.90	143.02	0.12983	-52.9	510.1	4.47986
51.20	147.79	0.13364	-53.3	514.0	4.78294
49.30	148.17	0.13806	-53.5	519.1	4.97992
47.50	149.42	0.14245	-52.9	526.1	5.21232
45.90	152.93	0.14659	-52.5	532.2	5.52067
44.20	155.66	0.15122	-52.3	538.5	5.83531
42.60	158.77	0.15585	-52.1	544.7	6.17578
41.00	160.28	0.16069	-51.3	552.6	6.47785
39.50	162.67	0.16548	-50.7	560.0	6.82399
37.80	163.93	0.17117	-50.5	567.6	7.18619
36.10	164.77	0.17716	-50.3	575.6	7.56319
34.50	165.65	0.18309	-50.1	583.6	7.95600
32.90	166.43	0.18933	-50.1	591.6	8.38234
31.50	167.61	0.19508	-49.9	599.5	8.81665
30.00	170.27	0.20164	-49.6	608.9	9.40459
28.80	173.87	0.20725	-48.6	618.6	10.00349
27.60	176.51	0.21318	-47.4	629.7	10.59726
25.90	180.03	0.22221	-47.4	641.3	11.51755
24.50	182.09	0.23020	-47.2	652.0	12.31507
23.20	181.59	0.23802	-47.2	662.3	12.96990
21.90	177.59	0.24611	-47.2	673.3	13.43649
21.00	173.51	0.25185	-47.0	681.9	13.69108
20.00	170.32	0.25841	-46.8	692.1	14.11064

Table 13 (continued)

WASHINGTON,D.C. 9/11/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
19.15	167.21	0.26415	-46.8	700.7	14.46863
18.60	163.34	0.26791	-47.0	706.0	14.55113
17.65	160.19	0.27454	-46.8	717.2	15.03871
17.00	157.10	0.27919	-46.7	725.5	15.31229
16.35	150.89	0.28384	-46.5	734.2	15.29204
15.70	147.04	0.28855	-46.0	744.5	15.51831
15.10	146.26	0.29305	-44.8	756.8	16.05033
14.50	145.42	0.29770	-43.4	770.1	16.61781
14.00	141.94	0.30163	-42.0	782.8	16.79977
13.50	136.46	0.30555	-40.5	795.9	16.74874
13.00	133.29	0.30952	-39.8	807.2	16.98971
12.60	130.52	0.31274	-38.8	817.6	17.16424
12.25	126.66	0.31556	-38.5	825.3	17.13294
11.80	122.03	0.31917	-38.4	834.7	17.13639
11.50	116.62	0.32154	-38.1	842.0	16.80363
11.20	114.44	0.32393	-37.9	848.9	16.93088
10.90	110.40	0.32629	-38.1	854.9	16.78265
10.50	107.73	0.32947	-38.2	863.6	17.00160
10.30	105.45	0.33108	-38.2	868.3	16.96441
10.10	103.93	0.33268	-38.2	873.2	17.05060
9.85	101.21	0.33469	-38.4	878.9	17.02580
9.65	98.55	0.33628	-38.2	884.7	16.92151
9.45	94.51	0.33785	-38.1	890.5	16.57228
9.30	90.95	0.33899	-37.9	895.2	16.20439
9.12	88.67	0.34036	-37.9	900.2	16.10982
8.97	87.25	0.34151	-37.8	905.1	16.11748
8.87	86.68	0.34227	-37.5	909.1	16.19289
8.80	86.68	0.34282	-37.3	911.7	16.32170
8.74	86.85	0.34328	-37.2	914.1	16.46500

Table 14

WASHINGTON,D.C. 10/6/69 1612Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1002.00	16.2	7.0	6.20001	289.2		
1000.00	15.2	6.3	5.90705	288.4	0.01235415	0.01235415
988.50	14.4	6.3	5.97644	288.5	0.06972457	0.08207872
976.00	13.4	6.3	6.05372	288.6	0.07672296	0.15880168
966.00	12.5	4.9	5.55032	288.5	0.05920431	0.21800599
956.00	11.7	4.2	5.35188	288.5	0.05562349	0.27362948
946.00	10.8	4.2	5.40895	288.5	0.05490220	0.32853168
936.00	10.0	4.2	5.46724	288.6	0.05549078	0.38402246
926.00	9.2	3.6	5.27909	288.7	0.05482826	0.43885071
916.00	8.5	3.6	5.33722	288.8	0.05416488	0.49301559
905.00	7.6	2.9	5.16569	288.9	0.05894491	0.55196050
896.00	9.5	2.3	4.99395	291.7	0.04665139	0.59861189
885.50	12.3	-4.5	2.96920	295.6	0.04265972	0.64127161
875.00	13.7	-23.2	0.53764	298.1	0.01878663	0.66005824
865.00	14.9	-30.3	0.26464	300.2	0.00409326	0.66415150
855.00	14.7	-38.5	0.11040	301.0	0.00191346	0.66606496
845.00	14.5	-40.4	0.08988	301.9	0.00102183	0.66708680
835.00	13.9	-41.8	0.07823	302.2	0.00085772	0.66794452
824.70	13.6	-42.1	0.07655	303.0	0.00081336	0.66875788
814.00	11.8	-42.3	0.07582	302.3	0.00083179	0.66958967
804.00	13.1	-43.1	0.06941	304.7	0.00074098	0.67033065
794.00	12.9	-42.9	0.07186	305.6	0.00072081	0.67105145
784.00	12.8	-41.8	0.08332	306.5	0.00079175	0.67184320
774.00	12.3	-28.3	0.36521	307.2	0.00228842	0.67413163
764.00	11.7	-11.1	1.92613	307.6	0.01169053	0.68582216
753.00	10.8	-10.0	2.14486	307.9	0.02284740	0.70866956
743.00	10.2	-8.6	2.47498	308.4	0.02357059	0.73224015
733.00	9.2	-10.0	2.20359	308.6	0.02387024	0.75611039
723.00	8.2	-10.7	2.09902	308.7	0.02195210	0.77806249
713.00	7.2	-11.4	2.00284	308.8	0.02092788	0.79899037
704.00	6.7	-13.0	1.75291	309.4	0.01724581	0.81623618
696.00	6.1	-12.4	1.87788	309.8	0.01481956	0.83105574
687.00	5.6	-13.3	1.74642	310.3	0.01664219	0.84769793
677.00	5.0	-22.2	0.76892	310.9	0.01283334	0.86053128
668.00	4.8	-25.7	0.55010	312.0	0.00605669	0.86658797
658.00	4.6	-25.5	0.56878	313.0	0.00570858	0.87229655
649.00	3.9	-25.9	0.55601	313.4	0.00516485	0.87746140
640.00	3.3	-27.9	0.45688	314.0	0.00465101	0.88211240
630.40	2.9	-25.9	0.57243	314.9	0.00504150	0.88715390
621.00	2.6	-23.8	0.71443	316.0	0.00617165	0.89332555
612.00	2.3	-26.9	0.52984	317.0	0.00571346	0.89903901
603.00	1.9	-30.2	0.38573	317.8	0.00420412	0.90324313
596.00	1.3	-27.4	0.51644	318.2	0.00322203	0.90646517
588.00	0.7	-28.1	0.48898	318.7	0.00410377	0.91056894
579.50	-0.2	-29.5	0.42781	319.0	0.00397586	0.91454480
570.00	-1.0	-29.5	0.43494	319.6	0.00418168	0.91872648
562.20	-1.8	-29.9	0.42708	319.9	0.00343047	0.92215695
553.00	-2.6	-31.5	0.36599	320.5	0.00372253	0.92587948
545.30	-3.4	-33.4	0.30211	320.8	0.00262466	0.92850414
537.00	-4.3	-35.0	0.25947	321.1	0.00237813	0.93088227
529.00	-5.1	-34.7	0.27071	321.6	0.00216402	0.93304629
520.00	-6.1	-34.6	0.27922	321.9	0.00252520	0.93557149
513.00	-7.2	-34.8	0.27536	321.9	0.00198063	0.93755211
506.00	-7.9	-35.3	0.26439	322.2	0.00192766	0.93947977
497.00	-9.0	-36.4	0.23883	322.6	0.00231068	0.94179045

Table 14 (continued)

WASHINGTON,D.C. 10/6/69 1612Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
490.00	-10.0	-36.7	0.23600	322.7	0.00169581	0.94348626
482.00	-11.1	-37.4	0.22208	322.8	0.00186970	0.94535596
474.00	-12.1	-37.3	0.22873	323.1	0.00184002	0.94719599
466.30	-13.1	-37.3	0.23251	323.3	0.00181201	0.94900799
459.00	-14.3	-38.1	0.21617	323.4	0.00167111	0.95067911
451.00	-15.3	-39.2	0.19446	323.8	0.00167605	0.95235516
442.00	-16.3	-41.1	0.16021	324.4	0.00162858	0.95398373
434.70	-17.4	-41.5	0.15554	324.5	0.00117601	0.95515974
427.00	-18.3	-42.2	0.14619	325.0	0.00118539	0.95634513
419.20	-19.4	-42.3	0.14559	325.3	0.00116117	0.95750630
412.00	-20.5	-42.5	0.14484	325.4	0.00106688	0.95857318
404.50	-21.7	-42.8	0.14266	325.7	0.00110013	0.95967331
398.00	-22.7	-43.6	0.13272	325.9	0.00091325	0.96058656
391.00	-23.8	-44.8	0.11737	326.1	0.00089317	0.96147973
384.00	-24.7	-46.2	0.10096	326.6	0.00077972	0.96225945
377.00	-25.5	-46.6	0.09764	327.3	0.00070926	0.96296871
370.00	-26.4	-48.2	0.08199	327.8	0.00064154	0.96361025
364.00	-27.5	-49.9	0.06768	327.8	0.00045819	0.96406844
357.00	-28.7	-51.4	0.05795	328.1	0.00044866	0.96451710
351.00	-29.4	-51.9	0.05511	328.8	0.00034608	0.96486319
344.00	-30.3	-51.5	0.05899	329.4	0.00040750	0.96527069
338.00	-31.4	-51.4	0.06062	329.7	0.00036615	0.96563683
332.00	-32.0	-52.6	0.05347	330.4	0.00034926	0.96598609
326.00	-32.3	-52.9	0.05243	331.8	0.00032419	0.96631028
319.00	-32.8	-34.7	0.44905	333.1	0.00179101	0.96810130
313.20	-33.9	-37.1	0.35069	333.3	0.00236660	0.97046790
307.00	-35.0	-40.6	0.24171	333.7	0.00187394	0.97234184
301.00	-35.9	-43.2	0.18340	334.4	0.00130137	0.97364321
295.00	-37.0	-46.7	0.12350	334.7	0.00093951	0.97458272
289.00	-38.4	-48.7	0.09886	334.7	0.00068071	0.97526343
283.00	-39.9	-49.2	0.09512	334.6	0.00059382	0.97585725
277.00	-41.2	-49.1	0.09912	334.7	0.00059462	0.97645187
271.00	-42.1	-51.0	0.07934	335.5	0.00054631	0.97699818
265.50	-42.9	-47.0	0.13306	336.3	0.00059602	0.97759420
260.00	-43.4	-44.3	0.18626	337.6	0.00089605	0.97849025
254.00	-44.5	-43.5	0.21028	338.3	0.00121390	0.97970415
249.00	-45.6	-44.4	0.19240	338.5	0.00102726	0.98073141
243.00	-46.5	-46.3	0.15790	339.6	0.00107235	0.98180376
238.00	-47.3	-49.7	0.10661	340.4	0.00067477	0.98247853
233.00	-48.3	-55.4	0.05284	340.9	0.00040675	0.98288527
228.00	-49.5	-55.6	0.05300	341.2	0.00026999	0.98315526
222.70	-50.8	-54.9	0.05900	341.5	0.00030287	0.98345813
217.50	-52.1	-54.6	0.06271	341.8	0.00032292	0.98378105
212.70	-53.4	-55.6	0.05681	341.9	0.00029272	0.98407377
207.50	-54.6	-56.7	0.05021	342.5	0.00028394	0.98435770
203.00	-55.8	-58.3	0.04149	342.7	0.00021054	0.98456824
198.00	-57.3	-59.2	0.03772	342.8	0.00020209	0.98477033
193.50	-58.0	-59.8	0.03585	344.0	0.00016892	0.98493925
188.50	-59.3	-63.8	0.02119	344.5	0.00014551	0.98508475
184.00	-59.8	-65.6	0.01675	346.1	0.00008710	0.98517186
179.00	-60.5	-67.5	0.01306	347.7	0.00007604	0.98524789
175.00	-61.2	-69.4	0.01013	348.8	0.00004733	0.98529522
171.00	-62.2	-70.6	0.00876	349.5	0.00003856	0.98533378
166.50	-63.2	-71.4	0.00790	350.5	0.00003824	0.98537203
162.00	-64.5	-71.6	0.00794	351.0	0.00003637	0.98540840

Table 14 (continued)

WASHINGTON,D.C. 10/6/69 1612Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
158.00	-65.3	-71.6	0.00805	352.1	0.00003264	0.98544104
154.00	-66.1	-72.0	0.00782	353.3	0.00003239	0.98547343
150.00	-66.1	-72.5	0.00742	356.0	0.00003110	0.98550453
146.00	-65.9	-73.3	0.00680	359.2	0.00002902	0.98553355
142.00	-67.0	-74.0	0.00622	360.1	0.00002658	0.98556013
137.50	-68.2	-74.7	0.00577	361.3	0.00002753	0.98558766
134.00	-68.2	-75.2	0.00550	364.0	0.00002013	0.98560778
130.00	-68.5	-75.7	0.00526	366.6	0.00002197	0.98562976
126.50	-70.1	-75.9	0.00521	366.6	0.00001870	0.98564846
123.00	-71.7	-76.2	0.00509	366.5	0.00001840	0.98566686
119.50	-71.1	-76.8	0.00479	370.8	0.00001765	0.98568451
116.00	-70.4	-77.4	0.00450	375.2	0.00001659	0.98570109
112.00	-69.4	-78.1	0.00413	380.8	0.00001760	0.98571869
108.00	-69.1	-78.5	0.00405	385.4	0.00001668	0.98573537
105.00	-69.1	-79.0	0.00383	388.5	0.00001205	0.98574742
102.00	-69.1	-79.4	0.00366	391.7	0.00001146	0.98575888
98.90	-69.1	-80.1	0.00336	395.2	0.00001111	0.98576999
96.10	-69.1	-80.8	0.00311	398.5	0.00000924	0.98577923
93.30	-68.2	-80.9	0.00315	403.7	0.00000894	0.98578817
90.60	-67.3	-81.2	0.00310	408.8	0.00000861	0.98579677
88.00	-67.6	-81.4	0.00309	411.7	0.00000820	0.98580498
85.50	-67.9	-81.5	0.00308	414.5	0.00000787	0.98581284
83.00	-67.0	-81.8	0.00302	419.8	0.00000778	0.98582062
80.40	-65.6	-82.1	0.00297	426.5	0.00000795	0.98582857
78.00	-65.3	-82.3	0.00296	430.8	0.00000726	0.98583584
75.30	-65.0	-82.6	0.00292	435.8	0.00000810	0.98584394
73.00	-64.5	-83.1	0.00276	440.8	0.00000667	0.98585060
70.90	-63.4	-83.9	0.00251	446.7	0.00000565	0.98585626
68.50	-62.9	-84.1	0.00251	452.2	0.00000615	0.98586241
66.20	-62.4	-84.2	0.00255	457.8	0.00000594	0.98586835
64.00	-61.9	-84.3	0.00259	463.3	0.00000577	0.98587412
61.90	-61.7	-84.4	0.00263	468.3	0.00000559	0.98587971
59.70	-61.7	-84.5	0.00268	473.1	0.00000595	0.98588567
57.70	-61.7	-84.6	0.00272	477.8	0.00000550	0.98589117
55.80	-61.2	-85.0	0.00261	483.5	0.00000516	0.98589633
53.70	-61.0	-85.2	0.00266	489.4	0.00000564	0.98590197
51.80	-61.0	-85.3	0.00270	494.4	0.00000519	0.98590716
49.90	-60.7	-85.4	0.00275	500.3	0.00000528	0.98591244
48.00	-60.2	-85.6	0.00275	507.0	0.00000533	0.98591777
46.30	-59.8	-85.8	0.00274	513.4	0.00000476	0.98592253
44.40	-59.3	-86.2	0.00269	520.7	0.00000526	0.98592778
42.70	-58.2	-86.2	0.00279	529.3	0.00000475	0.98593254
41.00	-57.8	-86.3	0.00285	536.5	0.00000490	0.98593743
39.30	-57.3	-86.5	0.00285	544.2	0.00000495	0.98594238
37.60	-57.1	-86.6	0.00292	551.6	0.00000501	0.98594739
35.90	-56.9	-86.8	0.00300	559.5	0.00000513	0.98595252
34.30	-55.8	-87.0	0.00300	569.6	0.00000490	0.98595742
32.80	-55.0	-87.2	0.00301	579.1	0.00000460	0.98596202
31.00	-53.8	-87.4	0.00312	591.7	0.00000563	0.98596765
29.30	-53.4	-88.8	0.00255	602.4	0.00000492	0.98597256
27.80	-53.1	-87.9	0.00318	612.6	0.00000439	0.98597695
26.20	-52.9	-88.5	0.00301	623.6	0.00000505	0.98598200
24.80	-51.9	-88.8	0.00303	636.2	0.00000431	0.98598631
23.40	-51.4	-89.8	0.00268	648.5	0.00000408	0.98599039
22.30	-50.1	-89.2	0.00314	661.3	0.00000326	0.98599366

Table 14 (continued)

WASHINGTON,D.C. 10/6/69 1612Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
21.20	-49.4	-89.2	0.00330	673.0	0.00000361	0.98599727
20.20	-48.7	-89.7	0.00313	684.5	0.00000328	0.98600055
19.30	-48.5	-90.3	0.00296	694.0	0.00000280	0.98600335
18.60	-48.5	-91.0	0.00269	701.4	0.00000202	0.98600536
17.80	-48.3	-91.3	0.00266	710.8	0.00000218	0.98600754
17.10	-48.8	-92.0	0.00242	717.3	0.00000181	0.98600936
16.90	-49.4	-92.4	0.00226	718.1	0.00000048	0.98600983
15.70	-48.8	-92.7	0.00234	735.1	0.00000282	0.98601265
15.00	-48.1	-92.7	0.00242	747.0	0.00000170	0.98601435
14.40	-47.0	-92.9	0.00244	759.8	0.00000149	0.98601584
13.80	-45.8	-93.1	0.00247	773.0	0.00000151	0.98601735
13.30	-44.8	-93.1	0.00254	784.5	0.00000128	0.98601862
12.80	-44.7	-93.3	0.00253	793.7	0.00000129	0.98601992
12.35	-44.2	-93.5	0.00252	803.6	0.00000116	0.98602108
11.90	-43.4	-93.8	0.00250	815.0	0.00000115	0.98602223
11.50	-42.8	-94.0	0.00248	825.2	0.00000102	0.98602324
11.10	-42.0	-94.5	0.00235	836.4	0.00000098	0.98602423
10.73	-41.7	-94.4	0.00244	845.6	0.00000090	0.98602513
10.30	-41.2	-94.3	0.00263	857.2	0.00000111	0.98602625
10.00	-40.9	-94.3	0.00271	865.6	0.00000082	0.98602707
9.68	-40.5	-94.3	0.00280	875.4	0.00000090	0.98602797
9.40	-40.3	-94.1	0.00299	883.4	0.00000083	0.98602879
9.10	-40.3	-94.9	0.00262	891.6	0.00000086	0.98602965
8.87	-39.7	-94.7	0.00281	900.4	0.00000064	0.98603029
8.65	-38.9	-94.5	0.00301	910.3	0.00000065	0.98603094
8.45	-38.4	-93.8	0.00352	918.1	0.00000067	0.98603161
8.28	-38.6	-93.8	0.00359	922.9	0.00000062	0.98603222
8.13	-38.6	-93.5	0.00382	927.7	0.00000057	0.98603279
8.00	-38.6	-93.3	0.00405	932.0	0.00000052	0.98603331
7.90	-38.1	-93.3	0.00410	937.1	0.00000042	0.98603373
7.81	-37.4	-93.3	0.00415	943.1	0.00000038	0.98603411
7.80	-37.1	-92.9	0.00452	944.5	0.00000004	0.98603415

Table 15

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
961.00					
950.00	39.84	0.00036	6.7	284.0	0.06950
939.00	39.25	0.00072	6.9	285.1	0.06926
927.50	39.25	0.00110	7.3	286.6	0.07012
917.00	39.96	0.00146	7.0	287.2	0.07220
902.00	40.00	0.00199	7.2	288.7	0.07348
892.00	41.58	0.00235	7.3	289.8	0.07724
881.00	44.73	0.00279	9.2	292.8	0.08414
869.00	49.24	0.00332	12.2	297.0	0.09389
857.50	53.32	0.00388	13.3	299.3	0.10303
846.00	50.20	0.00442	13.4	300.6	0.09833
833.50	43.16	0.00493	13.4	301.9	0.08579
821.00	41.05	0.00542	13.4	303.2	0.08285
807.00	41.58	0.00598	13.1	304.3	0.08537
795.00	41.97	0.00648	12.8	305.3	0.08748
784.00	43.29	0.00695	12.3	306.0	0.09150
773.00	42.89	0.00743	12.0	306.9	0.09193
761.50	41.61	0.00792	11.4	307.6	0.09054
751.00	41.23	0.00838	10.3	307.6	0.09097
739.00	40.35	0.00889	9.2	307.9	0.09046
728.00	40.10	0.00936	8.5	308.4	0.09128
716.00	38.92	0.00987	7.6	308.9	0.09008
704.00	38.00	0.01038	7.0	309.7	0.08944
693.00	36.63	0.01084	6.3	310.3	0.08759
681.00	34.91	0.01132	5.7	311.2	0.08494
670.00	34.42	0.01176	5.0	311.9	0.08513
659.00	33.92	0.01220	4.7	313.0	0.08528
648.50	32.32	0.01261	4.0	313.7	0.08258
638.00	31.22	0.01302	3.4	314.5	0.08108
627.00	29.82	0.01343	3.1	315.7	0.07882
616.00	29.28	0.01384	3.1	317.3	0.07877
605.00	28.82	0.01425	2.6	318.3	0.07894
593.00	27.55	0.01468	1.6	319.0	0.07699
583.50	25.53	0.01501	0.4	319.1	0.07250
573.00	24.45	0.01536	-0.7	319.4	0.07071
562.50	24.52	0.01572	-1.6	320.0	0.07224
552.00	25.03	0.01609	-2.6	320.6	0.07513
542.00	24.52	0.01644	-3.8	320.9	0.07497
532.00	24.54	0.01680	-4.9	321.3	0.07643
522.00	24.54	0.01717	-6.0	321.6	0.07789
512.00	24.54	0.01754	-7.3	321.9	0.07941
504.00	25.04	0.01786	-8.4	322.0	0.08233
494.00	25.48	0.01826	-9.5	322.5	0.08545
484.00	24.97	0.01866	-10.7	322.9	0.08549
474.00	24.47	0.01907	-12.0	323.3	0.08554
464.00	24.90	0.01949	-13.2	323.7	0.08893
455.00	25.40	0.01988	-14.5	323.9	0.09251
446.00	25.91	0.02029	-15.9	324.0	0.09625
437.00	24.96	0.02069	-16.9	324.7	0.09463
427.50	24.96	0.02112	-18.0	325.3	0.09673
419.00	23.44	0.02149	-19.1	325.7	0.09272
409.00	22.55	0.02192	-20.3	326.5	0.09137
401.00	22.08	0.02227	-21.4	326.9	0.09123
393.00	22.06	0.02262	-22.6	327.3	0.09302
384.00	20.49	0.02299	-23.3	328.4	0.08840
376.50	18.18	0.02328	-24.6	328.6	0.08002

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
368.00	17.66	0.02359	-25.7	329.2	0.07953
361.00	17.70	0.02386	-26.9	329.5	0.08125
353.00	17.19	0.02417	-27.9	330.2	0.08070
346.00	16.73	0.02443	-29.0	330.7	0.08012
338.00	17.74	0.02476	-29.9	331.6	0.08697
330.00	20.01	0.02514	-30.8	332.6	0.10048
323.00	18.19	0.02545	-31.8	333.4	0.09329
316.50	16.65	0.02571	-33.0	333.7	0.08717
310.00	16.18	0.02598	-34.1	334.1	0.08648
303.00	16.18	0.02627	-35.3	334.6	0.08848
296.00	16.63	0.02658	-36.4	335.2	0.09309
289.00	16.16	0.02688	-37.8	335.5	0.09264
282.00	14.62	0.02717	-39.2	336.0	0.08593
275.00	14.05	0.02744	-40.8	336.0	0.08466
269.00	14.51	0.02770	-42.0	336.4	0.08935
263.00	14.50	0.02796	-43.4	336.5	0.09134
257.00	15.00	0.02823	-44.2	337.6	0.09671
251.00	14.53	0.02850	-45.1	338.5	0.09591
245.00	14.02	0.02877	-45.5	340.3	0.09479
238.70	13.50	0.02904	-46.3	341.6	0.09373
232.50	11.51	0.02928	-47.6	342.2	0.08205
226.50	9.13	0.02947	-49.0	342.6	0.06681
220.00	8.08	0.02966	-50.2	343.6	0.06084
214.00	6.94	0.02981	-51.9	343.8	0.05375
209.00	5.84	0.02992	-53.4	343.7	0.04630
203.00	5.82	0.03005	-54.6	344.7	0.04753
198.00	6.38	0.03018	-55.8	345.3	0.05343
192.70	7.45	0.03034	-56.8	346.3	0.06406
187.00	6.91	0.03050	-58.3	346.8	0.06124
182.30	5.81	0.03062	-59.9	346.8	0.05282
177.00	6.89	0.03078	-61.1	347.8	0.06455
172.50	6.34	0.03091	-62.3	348.3	0.06092
168.00	6.85	0.03105	-63.1	349.7	0.06760
163.30	7.38	0.03122	-63.8	351.3	0.07491
158.00	8.45	0.03144	-64.6	353.3	0.08866
153.60	10.38	0.03167	-65.2	355.2	0.11192
149.00	10.86	0.03193	-66.3	356.4	0.12078
144.50	10.36	0.03218	-67.4	357.5	0.11876
140.00	10.34	0.03244	-68.0	359.7	0.12243
136.00	10.33	0.03267	-68.6	361.7	0.12589
132.00	12.88	0.03298	-68.9	364.2	0.16168
127.30	13.83	0.03337	-69.6	366.9	0.18004
123.00	14.31	0.03376	-71.2	367.5	0.19281
119.00	16.29	0.03419	-72.2	369.1	0.22684
115.00	17.88	0.03467	-71.9	373.4	0.25768
111.30	20.94	0.03521	-71.2	378.2	0.31181
107.50	25.30	0.03591	-70.5	383.2	0.38998
104.00	29.34	0.03667	-70.5	386.8	0.46752
101.20	33.34	0.03739	-70.5	389.9	0.54594
98.30	36.47	0.03823	-70.5	393.1	0.61481
95.20	37.80	0.03918	-68.9	399.8	0.65798
92.70	38.67	0.04000	-68.3	404.1	0.69123
90.00	42.79	0.04100	-67.4	409.3	0.78777
87.70	44.57	0.04191	-66.9	413.5	0.84212
85.50	46.34	0.04284	-66.6	417.1	0.89809

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
83.30	46.18	0.04379	-66.3	420.8	0.91855
81.20	46.01	0.04471	-66.3	423.9	0.93899
79.20	46.80	0.04564	-66.3	426.9	0.97916
77.10	47.65	0.04665	-65.5	431.9	1.02410
75.30	52.44	0.04762	-64.9	436.0	1.15394
73.40	54.14	0.04872	-65.5	438.1	1.22224
71.60	54.91	0.04979	-66.0	440.0	1.27071
69.80	61.26	0.05102	-64.9	445.6	1.45419
68.00	67.43	0.05242	-63.6	451.7	1.64309
66.20	75.08	0.05401	-62.8	456.9	1.87919
64.60	76.42	0.05548	-62.1	461.7	1.96021
63.00	80.55	0.05708	-61.6	466.1	2.11858
61.50	86.99	0.05873	-61.1	470.4	2.34366
60.00	87.77	0.06044	-60.9	474.3	2.42402
58.50	90.85	0.06226	-60.9	477.7	2.57344
57.00	92.61	0.06416	-60.9	481.3	2.69219
55.60	94.45	0.06601	-61.1	484.2	2.81493
54.10	95.48	0.06808	-61.1	488.0	2.92437
52.80	96.28	0.06992	-61.3	490.8	3.02166
51.50	98.58	0.07186	-61.3	494.3	3.17192
50.10	99.79	0.07404	-61.3	498.2	3.30057
48.80	99.79	0.07611	-61.1	502.6	3.38850
47.50	101.13	0.07826	-60.9	507.0	3.52779
46.30	102.00	0.08032	-60.4	511.9	3.65055
45.10	105.85	0.08252	-59.9	516.9	3.88887
44.00	109.91	0.08466	-59.7	521.1	4.13904
42.70	111.25	0.08730	-59.5	526.1	4.31710
41.70	110.43	0.08936	-58.6	531.9	4.38795
40.60	115.63	0.09180	-57.5	538.7	4.71920
39.60	117.43	0.09411	-57.5	542.6	4.91349
38.60	120.60	0.09655	-57.5	546.6	5.17694
37.60	122.14	0.09908	-57.3	551.2	5.38249
36.67	122.55	0.10150	-56.6	556.8	5.53760
35.70	125.53	0.10416	-56.6	561.1	5.82633
34.77	128.99	0.10685	-56.6	565.4	6.14717
33.90	132.36	0.10950	-56.4	570.0	6.46942
33.00	132.41	0.11231	-56.2	575.0	6.64859
32.20	132.06	0.11487	-55.4	581.2	6.79551
31.30	132.00	0.11782	-54.4	588.6	6.98797
30.50	132.00	0.12052	-54.0	594.1	7.17126
29.75	131.63	0.12311	-53.4	599.9	7.33132
29.00	130.83	0.12575	-53.4	604.3	7.47541
28.75	129.98	0.12664	-53.6	605.3	7.49126
27.50	128.27	0.13114	-53.2	614.1	7.72899
26.80	125.76	0.13370	-52.4	620.8	7.77582
26.10	123.86	0.13629	-52.4	625.5	7.86352
25.46	123.27	0.13870	-52.3	630.5	8.02299
24.80	122.96	0.14125	-52.1	635.8	8.21546
24.10	122.89	0.14403	-51.9	641.5	8.44943
23.50	122.62	0.14647	-52.3	645.1	8.64627
22.80	122.20	0.14939	-52.4	650.1	8.88072
22.20	122.78	0.15197	-52.3	655.6	9.16401
21.60	121.41	0.15460	-52.1	661.4	9.31370
21.10	120.65	0.15683	-50.8	669.7	9.47503
20.50	119.60	0.15956	-49.0	680.6	9.66728

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
20.00	115.85	0.16182	-48.8	686.0	9.59824
19.53	109.56	0.16387	-48.8	690.7	9.29524
19.00	116.23	0.16640	-48.5	697.2	10.13665
18.50	121.39	0.16895	-48.0	704.1	10.87261
18.00	122.46	0.17160	-47.3	711.8	11.27291
17.50	123.23	0.17434	-46.9	718.6	11.66823
17.00	124.22	0.17719	-47.1	724.1	12.10816
16.55	123.23	0.17980	-47.8	727.5	12.33801
16.10	116.03	0.18232	-48.1	732.1	11.94198
15.66	110.35	0.18474	-48.3	737.4	11.67625
15.25	110.58	0.18705	-48.1	743.5	12.01511
14.80	110.12	0.18966	-47.8	751.1	12.32903
14.40	105.83	0.19195	-47.3	758.7	12.17777
14.05	103.19	0.19395	-46.9	765.2	12.16973
13.70	105.14	0.19604	-45.9	774.1	12.71704
13.30	109.99	0.19862	-44.5	785.7	13.70286
12.90	110.07	0.20127	-43.1	797.5	14.13895
12.55	105.16	0.20356	-41.5	809.1	13.88483
12.20	101.21	0.20582	-41.8	814.6	13.74646
11.85	98.07	0.20807	-43.7	814.8	13.71388
11.50	95.12	0.21032	-45.0	817.3	13.70601
11.20	93.23	0.21227	-44.8	824.1	13.79365
10.90	89.96	0.21420	-44.6	831.1	13.67550
10.60	88.48	0.21615	-44.5	838.3	13.83091
10.30	86.19	0.21810	-43.7	848.1	13.86553
10.07	82.34	0.21957	-42.3	858.8	13.54950
9.80	79.26	0.22127	-41.7	867.8	13.40213
9.55	77.09	0.22284	-41.5	874.8	13.37518
9.30	72.77	0.22437	-41.4	882.1	12.96613
9.10	69.90	0.22557	-41.4	887.6	12.72834
8.90	68.51	0.22677	-41.4	893.2	12.75571
8.70	66.89	0.22797	-41.2	899.6	12.73995
8.53	65.30	0.22899	-40.2	908.8	12.68519
8.37	64.55	0.22995	-38.4	920.6	12.77821
8.22	63.79	0.23086	-37.3	929.9	12.85919
8.10	61.84	0.23158	-37.1	934.4	12.65127
8.00	60.62	0.23217	-37.0	938.3	12.55642
7.92	59.71	0.23265	-37.1	940.4	12.49327
7.85	58.81	0.23306	-37.1	942.8	12.41299
7.80	58.81	0.23336	-37.3	944.0	12.49256

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1010.00					
1000.00	50.20	0.00008	15.2	288.4	0.08318
988.50	49.67	0.00053	14.4	288.5	0.08325
976.00	49.08	0.00103	13.4	288.6	0.08332
966.00	48.69	0.00142	12.5	288.5	0.08352
956.00	48.26	0.00182	11.7	288.5	0.08364
946.00	48.08	0.00222	10.8	288.5	0.08422
936.00	47.88	0.00262	10.0	288.6	0.08477
926.00	47.46	0.00302	9.2	288.7	0.08492
916.00	47.55	0.00343	8.5	288.8	0.08601
905.00	47.23	0.00388	7.6	288.9	0.08648
896.00	48.12	0.00426	9.5	291.7	0.08900
885.50	49.30	0.00472	12.3	295.6	0.09225
875.00	48.99	0.00518	13.7	298.1	0.09278
865.00	48.96	0.00562	14.9	300.2	0.09380
855.00	48.37	0.00607	14.7	301.0	0.09375
845.00	48.14	0.00652	14.5	301.9	0.09440
835.00	47.71	0.00696	13.9	302.2	0.09468
824.70	47.40	0.00743	13.6	303.0	0.09524
814.00	47.66	0.00792	11.8	302.3	0.09702
804.00	47.09	0.00838	13.1	304.7	0.09705
794.00	46.95	0.00884	12.9	305.6	0.09798
784.00	46.83	0.00931	12.8	306.5	0.09898
774.00	45.59	0.00977	12.3	307.2	0.09760
764.00	42.79	0.01021	11.7	307.6	0.09281
753.00	42.33	0.01070	10.8	307.9	0.09315
743.00	46.56	0.01119	10.2	308.4	0.10384
733.00	46.84	0.01169	9.2	308.6	0.10589
723.00	45.95	0.01219	8.2	308.7	0.10530
713.00	44.65	0.01268	7.2	308.8	0.10376
704.00	43.50	0.01312	6.7	309.4	0.10239
696.00	42.94	0.01350	6.1	309.8	0.10222
687.00	42.46	0.01394	5.6	310.3	0.10242
677.00	39.08	0.01439	5.0	310.9	0.09566
668.00	36.73	0.01478	4.8	312.0	0.09111
658.00	35.92	0.01521	4.6	313.0	0.09046
649.00	35.59	0.01560	3.9	313.4	0.09088
640.00	35.18	0.01598	3.3	314.0	0.09109
630.40	32.75	0.01637	2.9	314.9	0.08608
621.00	31.44	0.01675	2.6	316.0	0.08390
612.00	31.10	0.01711	2.3	317.0	0.08419
603.00	28.92	0.01744	1.9	317.8	0.07946
596.00	27.65	0.01770	1.3	318.2	0.07688
588.00	28.44	0.01800	0.7	318.7	0.08014
579.50	28.75	0.01833	-0.2	319.0	0.08220
570.00	27.96	0.01870	-1.0	319.6	0.08129
562.20	27.57	0.01900	-1.8	319.9	0.08126
553.00	26.04	0.01934	-2.6	320.5	0.07804
545.30	26.82	0.01963	-3.4	320.8	0.08150
537.00	27.59	0.01997	-4.3	321.1	0.08514
529.00	26.46	0.02028	-5.1	321.5	0.08289
520.00	25.20	0.02062	-6.2	321.8	0.08030
513.00	24.27	0.02088	-7.2	321.8	0.07839
506.00	23.33	0.02114	-8.0	322.1	0.07641
497.00	23.03	0.02146	-9.0	322.5	0.07677
490.00	22.23	0.02171	-10.0	322.6	0.07517

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
482.00	22.22	0.02200	-11.2	322.7	0.07637
474.00	23.94	0.02232	-12.2	323.0	0.08369
466.30	25.21	0.02264	-13.2	323.2	0.08959
459.00	23.98	0.02294	-14.4	323.3	0.08655
451.00	21.88	0.02324	-15.4	323.6	0.08038
442.00	20.13	0.02357	-16.4	324.2	0.07548
434.70	20.66	0.02384	-17.5	324.4	0.07874
427.00	22.28	0.02415	-18.4	324.9	0.08647
419.20	21.48	0.02446	-19.5	325.2	0.08491
412.00	20.19	0.02474	-20.7	325.3	0.08120
404.50	19.36	0.02502	-21.8	325.5	0.07929
398.00	18.89	0.02526	-22.8	325.7	0.07864
391.00	19.25	0.02553	-23.9	325.9	0.08157
384.00	19.77	0.02581	-24.8	326.4	0.08531
377.00	20.69	0.02611	-25.6	327.1	0.09094
370.00	18.99	0.02640	-26.5	327.7	0.08506
364.00	18.93	0.02664	-27.7	327.7	0.08617
357.00	17.42	0.02691	-28.8	327.9	0.08087
351.00	17.47	0.02714	-29.5	328.6	0.08246
344.00	17.71	0.02742	-30.4	329.3	0.08531
338.00	19.50	0.02769	-31.5	329.5	0.09559
332.00	19.43	0.02797	-32.2	330.2	0.09699
326.00	18.49	0.02823	-32.4	331.6	0.09399
319.00	16.61	0.02852	-33.0	332.9	0.08625
313.20	16.61	0.02876	-34.1	333.1	0.08785
307.00	17.09	0.02903	-35.2	333.5	0.09222
301.00	17.44	0.02930	-36.0	334.2	0.09601
295.00	17.48	0.02958	-37.1	334.5	0.09817
289.00	17.47	0.02986	-38.6	334.5	0.10015
283.00	17.64	0.03015	-40.0	334.4	0.10330
277.00	17.21	0.03045	-41.4	334.5	0.10294
271.00	17.19	0.03074	-42.3	335.2	0.10509
265.50	15.77	0.03100	-43.1	336.1	0.09845
260.00	15.38	0.03125	-43.5	337.4	0.09799
254.00	14.58	0.03152	-44.6	338.0	0.09513
249.00	14.18	0.03174	-45.8	338.3	0.09435
243.00	13.74	0.03201	-46.6	339.4	0.09366
238.00	12.00	0.03221	-47.4	340.2	0.08356
233.00	10.69	0.03238	-48.5	340.7	0.07603
228.00	11.11	0.03258	-49.7	340.9	0.08078
222.70	10.71	0.03277	-51.0	341.3	0.07972
217.50	10.30	0.03297	-52.3	341.6	0.07847
212.70	10.31	0.03315	-53.6	341.7	0.08028
207.50	10.34	0.03335	-54.8	342.3	0.08254
203.00	11.24	0.03354	-56.0	342.5	0.09176
198.00	11.67	0.03377	-57.5	342.6	0.09764
193.50	12.10	0.03399	-58.1	343.8	0.10360
188.50	13.04	0.03426	-59.5	344.2	0.11463
184.00	13.50	0.03452	-59.9	345.9	0.12155
179.00	15.75	0.03486	-60.6	347.4	0.14583
175.00	17.70	0.03518	-61.3	348.5	0.16761
171.00	19.17	0.03553	-62.3	349.2	0.18580
166.50	19.19	0.03593	-63.3	350.2	0.19093
162.00	18.76	0.03634	-64.6	350.7	0.19191
158.00	17.20	0.03668	-65.5	351.9	0.18034

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
154.00	17.25	0.03703	-66.3	353.0	0.18562
150.00	16.95	0.03738	-66.3	355.7	0.18725
146.00	17.50	0.03775	-66.0	359.0	0.19856
142.00	17.54	0.03814	-67.1	359.8	0.20465
137.50	20.53	0.03866	-68.3	361.1	0.24739
134.00	23.70	0.03914	-68.3	363.7	0.29305
130.00	24.63	0.03973	-68.6	366.3	0.31391
126.50	24.25	0.04025	-70.2	366.4	0.31763
123.00	26.81	0.04085	-71.9	366.3	0.36115
119.50	30.16	0.04154	-71.2	370.6	0.41824
116.00	34.03	0.04233	-70.5	374.9	0.48603
112.00	38.76	0.04341	-69.6	380.5	0.57348
108.00	42.01	0.04461	-69.3	385.1	0.64450
105.00	44.00	0.04559	-69.3	388.2	0.69435
102.00	48.36	0.04670	-69.3	391.4	0.78554
98.90	51.57	0.04796	-69.3	394.9	0.86398
96.10	54.84	0.04920	-69.3	398.2	0.94552
93.30	57.32	0.05054	-68.3	403.4	1.01793
90.60	63.81	0.05202	-67.4	408.5	1.16704
88.00	64.39	0.05350	-67.7	411.4	1.21238
85.50	65.08	0.05498	-68.0	414.2	1.26124
83.00	65.19	0.05651	-67.1	419.5	1.30146
80.40	67.06	0.05819	-65.7	426.2	1.38213
78.00	71.09	0.05989	-65.5	430.5	1.51022
75.30	73.43	0.06193	-65.2	435.4	1.61596
73.00	79.99	0.06389	-64.6	440.5	1.81560
70.90	89.17	0.06595	-63.6	446.4	2.08394
68.50	94.67	0.06852	-63.1	451.9	2.29002
66.20	98.98	0.07119	-62.6	457.4	2.47743
64.00	103.82	0.07396	-62.1	463.0	2.68795
61.90	111.23	0.07689	-61.8	467.9	2.97745
59.70	113.08	0.08012	-61.8	472.8	3.13870
57.70	114.96	0.08322	-61.8	477.4	3.30146
55.80	119.03	0.08636	-61.3	483.1	3.53468
53.70	121.50	0.09004	-61.1	489.0	3.74893
51.80	123.04	0.09354	-61.1	494.1	3.93598
49.90	124.14	0.09720	-60.9	499.9	4.12215
48.00	126.30	0.10108	-60.4	506.6	4.35983
46.30	129.78	0.10477	-59.9	513.0	4.64457
44.40	129.85	0.10907	-59.5	520.3	4.84581
42.70	130.91	0.11310	-58.3	528.9	5.07987
41.00	131.81	0.11733	-57.9	536.1	5.32687
39.30	133.00	0.12178	-57.5	543.8	5.60773
37.60	133.84	0.12645	-57.3	551.2	5.89822
35.90	136.65	0.13144	-57.0	559.1	6.30710
34.30	139.13	0.13645	-56.0	569.2	6.72114
32.80	142.05	0.14146	-55.2	578.7	7.17587
31.00	142.89	0.14783	-54.0	591.3	7.63771
29.30	138.20	0.15399	-53.6	602.0	7.81551
27.80	137.50	0.15969	-53.2	612.2	8.19560
26.20	135.72	0.16604	-53.0	623.2	8.58374
24.80	133.62	0.17184	-52.1	635.8	8.92771
23.40	131.96	0.17789	-51.5	648.0	9.34414
22.30	126.25	0.18269	-50.2	660.8	9.38086
21.20	122.20	0.18757	-49.5	672.6	9.55107

Table 15 (continued)

WASHINGTON,D.C. 10/6/69 1612Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
20.20	120.66	0.19217	-48.8	684.1	9.89771
19.30	124.84	0.19667	-48.6	693.6	10.71800
18.60	127.92	0.20040	-48.6	700.9	11.39568
17.80	124.05	0.20470	-48.5	710.3	11.54748
17.10	121.89	0.20856	-49.0	716.8	11.81127
16.90	114.10	0.20962	-49.5	717.6	11.18720
15.70	112.19	0.21615	-49.0	734.6	11.84023
15.00	105.96	0.21996	-48.3	746.5	11.70552
14.40	111.36	0.22355	-47.1	759.2	12.81417
13.80	109.11	0.22722	-45.9	772.5	13.10100
13.30	104.87	0.23028	-45.0	784.0	13.06529
12.80	100.02	0.23330	-44.8	793.2	12.94833
12.35	95.35	0.23600	-44.3	803.1	12.79370
11.90	93.60	0.23874	-43.5	814.4	13.03362
11.50	90.43	0.24118	-42.9	824.6	13.02979
11.10	87.54	0.24363	-42.1	835.8	13.06827
10.73	81.64	0.24581	-41.8	845.1	12.60756
10.30	76.27	0.24828	-41.4	856.7	12.27034
10.00	76.72	0.25007	-41.1	865.1	12.71281
9.68	73.23	0.25195	-40.6	874.9	12.53451
9.40	70.70	0.25358	-40.5	882.8	12.46257
9.10	68.79	0.25535	-40.5	891.0	12.52641
8.87	67.50	0.25671	-39.9	899.8	12.60892
8.65	66.22	0.25802	-39.0	909.7	12.68554
8.45	65.08	0.25923	-38.6	917.6	12.76153
8.28	62.59	0.26023	-38.7	922.3	12.52522
8.13	61.50	0.26112	-38.7	927.2	12.53349
8.00	60.37	0.26189	-38.7	931.4	12.50494
7.90	59.01	0.26247	-38.3	936.5	12.37654
7.81	58.84	0.26300	-37.6	942.5	12.48361
7.80	58.84	0.26306	-37.3	944.0	12.49961

Table 16

WASHINGTON,D.C. 11/22/69 1930Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1026.10	8.4	-7.5	1.96101	279.5		
1014.00	7.9	-7.5	1.98449	280.0	0.02435742	0.02435742
1002.00	7.6	-7.5	2.00833	280.6	0.02444583	0.04880325
989.00	7.2	-7.2	2.10377	281.2	0.02727414	0.07607739
978.00	6.9	-7.5	2.05778	281.8	0.02335563	0.09943302
964.00	6.4	-7.5	2.08776	282.5	0.02961101	0.12904403
956.00	5.9	-7.5	2.10529	282.6	0.01711451	0.14615854
935.00	5.6	-7.5	2.15274	284.1	0.04562179	0.19178034
920.00	5.1	-7.2	2.26213	285.0	0.03378726	0.22556760
905.00	4.7	-6.4	2.46181	285.9	0.03615260	0.26172020
891.00	4.3	-6.0	2.58918	286.7	0.03607849	0.29779869
878.00	4.1	-6.0	2.62767	287.8	0.03460156	0.33240025
865.00	4.1	-7.5	2.32760	289.0	0.03286664	0.36526688
852.00	3.6	-11.0	1.73243	289.7	0.02692878	0.39219566
840.00	2.1	-9.0	2.10709	289.4	0.02350722	0.41570289
827.00	1.2	-7.5	2.43497	289.6	0.03012590	0.44582878
814.00	0.3	-7.9	2.39396	290.1	0.03202862	0.47785740
802.00	-0.3	-8.6	2.27817	290.6	0.02860485	0.50646225
790.00	-0.7	-9.0	2.24093	291.4	0.02766792	0.53413017
778.50	-1.2	-9.4	2.20426	292.2	0.02608147	0.56021164
767.00	-2.0	-9.7	2.16952	292.6	0.02566253	0.58587417
755.00	-2.4	-8.3	2.49934	293.4	0.02858487	0.61445904
742.00	-2.9	-8.6	2.46312	294.3	0.03291425	0.64737330
731.30	-3.2	-12.0	1.85276	295.2	0.02356119	0.67093448
720.00	-3.4	-12.0	1.88193	296.3	0.02153165	0.69246613
709.00	-3.3	-11.0	2.08302	297.7	0.02225225	0.71471838
700.00	-3.2	-11.4	2.04953	299.0	0.01897598	0.73369436
689.00	-2.4	-22.6	0.72573	301.2	0.01557546	0.74926983
678.00	-1.8	-26.1	0.52071	303.2	0.00699535	0.75626518
668.00	-2.4	-23.9	0.65533	303.9	0.00600020	0.76226538
657.00	-3.3	-22.0	0.80733	304.3	0.00820880	0.77047417
646.80	-4.4	-21.2	0.88885	304.4	0.00882708	0.77930125
636.00	-5.3	-22.6	0.78629	304.9	0.00923035	0.78853160
626.50	-5.9	-23.9	0.69878	305.4	0.00719805	0.79572965
617.00	-6.6	-25.7	0.59251	306.0	0.00625881	0.80198847
606.30	-7.5	-25.7	0.60297	306.5	0.00652635	0.80851481
597.00	-8.6	-23.2	0.79070	306.5	0.00661283	0.81512765
588.00	-9.4	-23.2	0.80282	307.0	0.00731717	0.82244481
578.00	-10.3	-23.9	0.75749	307.4	0.00796076	0.83040557
568.70	-11.3	-24.3	0.74198	307.7	0.00711481	0.83752039
559.00	-12.2	-26.3	0.62087	308.1	0.00674468	0.84426507
549.00	-12.7	-29.6	0.44899	309.1	0.00545843	0.84972350
540.00	-13.2	-30.6	0.41034	310.0	0.00394588	0.85366938
531.80	-14.0	-25.0	0.73800	310.5	0.00480429	0.85847367
523.00	-14.6	-23.9	0.83726	311.2	0.00707260	0.86554628
515.00	-15.6	-23.2	0.91678	311.3	0.00715935	0.87270563
507.00	-16.7	-23.6	0.89664	311.4	0.00740173	0.88010736
498.00	-17.7	-24.3	0.84746	311.8	0.00800861	0.88811596
490.00	-18.7	-25.0	0.80104	312.0	0.00672855	0.89484452
482.60	-19.5	-27.4	0.63908	312.4	0.00543719	0.90028171
475.00	-20.1	-28.7	0.57022	313.1	0.00468911	0.90497082
467.00	-20.8	-30.5	0.48171	313.7	0.00429358	0.90926440
459.00	-21.3	-36.8	0.24739	314.6	0.00297595	0.91224035
452.00	-21.6	-44.2	0.10903	315.7	0.00127294	0.91351329
445.00	-21.9	-43.3	0.12321	316.6	0.00082942	0.91434271

Table 16 (continued)

WASHINGTON,D.C. 11/22/69 1930Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
437.50	-22.8	-42.8	0.13228	317.0	0.00097765	0.91532035
430.00	-23.8	-43.3	0.12751	317.3	0.00099410	0.91631445
422.70	-25.0	-44.8	0.10832	317.4	0.00087834	0.91719279
415.00	-26.2	-44.4	0.11627	317.5	0.00088233	0.91807512
407.50	-27.5	-42.6	0.14515	317.5	0.00100035	0.91907546
400.00	-28.8	-43.5	0.13416	317.5	0.00106879	0.92014425
393.70	-30.1	-43.3	0.13927	317.2	0.00087886	0.92102311
387.00	-31.3	-43.0	0.14634	317.3	0.00097631	0.92199942
380.30	-32.3	-45.1	0.11669	317.4	0.00089915	0.92289857
373.00	-33.0	-44.7	0.12405	318.3	0.00089664	0.92379521
366.00	-34.2	-44.2	0.13465	318.4	0.00092393	0.92471914
359.00	-35.3	-44.9	0.12622	318.7	0.00093169	0.92565083
352.80	-35.7	-47.5	0.09460	319.8	0.00069851	0.92634934
346.00	-36.4	-45.1	0.12827	320.6	0.00077320	0.92712253
339.80	-37.2	-40.8	0.21508	321.1	0.00108610	0.92820863
333.00	-38.2	-40.4	0.22973	321.7	0.00154323	0.92975186
327.00	-39.2	-44.2	0.15072	321.9	0.00116464	0.93091650
321.00	-40.1	-50.9	0.06837	322.5	0.00067067	0.93158717
314.50	-41.1	-48.4	0.09422	322.9	0.00053920	0.93212638
308.00	-42.3	-47.4	0.10945	323.2	0.00067543	0.93280181
302.20	-43.5	-45.9	0.13247	323.2	0.00071588	0.93351768
297.00	-44.5	-45.9	0.13479	323.5	0.00070906	0.93422674
290.00	-45.6	-46.3	0.13252	324.1	0.00095469	0.93518143
284.00	-46.7	-47.6	0.11520	324.4	0.00075833	0.93593976
278.60	-47.7	-48.5	0.10532	324.8	0.00060756	0.93654732
273.00	-48.9	-49.8	0.09197	325.0	0.00056368	0.93711100
267.40	-49.8	-50.6	0.08528	325.6	0.00050641	0.93761741
262.00	-50.8	-51.6	0.07617	326.0	0.00044480	0.93806220
256.00	-51.5	-52.9	0.06641	327.1	0.00043647	0.93849867
250.00	-52.6	-53.7	0.06136	327.7	0.00039114	0.93888982
244.80	-53.8	-54.1	0.05981	328.0	0.00032148	0.93921129
240.00	-54.6	-55.0	0.05458	328.7	0.00028013	0.93949142
234.30	-55.7	-55.9	0.04957	329.1	0.00030286	0.93979429
229.00	-56.6	-56.7	0.04539	330.0	0.00025677	0.94005106
224.00	-57.8	-57.9	0.03966	330.2	0.00021697	0.94026803
219.00	-58.9	-59.4	0.03340	330.7	0.00018638	0.94045441
213.80	-59.6	-60.3	0.03004	331.9	0.00016831	0.94062271
209.00	-60.5	-61.1	0.02773	332.6	0.00014147	0.94076418
201.00	-63.6	-67.4	0.01180	331.4	0.00016134	0.94092552
197.00	-64.9	-67.0	0.01280	331.3	0.00005020	0.94097572
192.50	-65.7	-66.3	0.01448	332.2	0.00006263	0.94103835
188.00	-66.2	-67.2	0.01314	333.6	0.00006342	0.94110177
184.00	-67.1	-68.1	0.01175	334.3	0.00005080	0.94115258
180.00	-68.0	-69.1	0.01038	334.9	0.00004516	0.94119774
176.00	-68.0	-69.1	0.01050	337.1	0.00004261	0.94124035
172.50	-67.7	-69.5	0.01016	339.5	0.00003690	0.94127725
168.70	-67.1	-71.9	0.00730	342.6	0.00003385	0.94131110
165.00	-66.5	-73.6	0.00570	345.8	0.00002455	0.94133566
161.50	-66.0	-74.5	0.00510	348.8	0.00001929	0.94135494
158.00	-65.7	-75.0	0.00483	351.5	0.00001773	0.94137267
155.00	-65.4	-75.4	0.00456	353.9	0.00001438	0.94138706
151.50	-65.2	-76.2	0.00415	356.6	0.00001557	0.94140263
147.50	-64.9	-77.0	0.00373	359.8	0.00001609	0.94141872
144.00	-64.6	-77.5	0.00357	362.8	0.00001304	0.94143176
140.70	-64.9	-77.8	0.00345	364.7	0.00001182	0.94144358

Table 16 (continued)

WASHINGTON,D.C. 11/22/69 1930Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
137.50	-64.9	-78.3	0.00329	367.1	0.00001101	0.94145460
134.20	-65.2	-78.7	0.00314	369.2	0.00001082	0.94146542
131.00	-64.9	-79.4	0.00285	372.2	0.00000978	0.94147520
128.00	-64.1	-79.5	0.00288	376.1	0.00000877	0.94148398
125.00	-64.1	-79.8	0.00281	378.7	0.00000871	0.94149269
122.00	-64.1	-80.2	0.00271	381.3	0.00000846	0.94150114
119.00	-63.6	-80.4	0.00269	385.0	0.00000827	0.94150941
116.00	-62.9	-80.5	0.00272	389.2	0.00000828	0.94151770
113.00	-61.9	-80.7	0.00270	393.9	0.00000830	0.94152600
110.30	-61.2	-80.8	0.00268	398.0	0.00000742	0.94153342
107.50	-60.9	-81.1	0.00262	401.4	0.00000758	0.94154100
104.70	-60.9	-81.2	0.00265	404.4	0.00000753	0.94154853
102.50	-61.2	-81.4	0.00262	406.4	0.00000591	0.94155444
99.40	-61.4	-81.5	0.00265	409.5	0.00000834	0.94156278
97.00	-61.4	-81.7	0.00263	412.4	0.00000647	0.94156925
94.60	-61.4	-82.0	0.00256	415.4	0.00000636	0.94157561
92.10	-61.2	-82.2	0.00254	419.0	0.00000651	0.94158212
89.90	-60.9	-82.5	0.00252	422.4	0.00000568	0.94158780
87.60	-60.9	-82.7	0.00249	425.5	0.00000588	0.94159368
85.20	-60.9	-82.9	0.00248	428.9	0.00000609	0.94159977
83.00	-61.2	-82.8	0.00259	431.7	0.00000568	0.94160545
80.80	-61.6	-82.8	0.00266	434.0	0.00000589	0.94161134
78.80	-61.6	-82.9	0.00268	437.1	0.00000544	0.94161678
76.50	-61.2	-83.3	0.00257	441.8	0.00000615	0.94162293
74.10	-60.7	-83.6	0.00251	446.9	0.00000621	0.94162914
72.00	-60.2	-83.8	0.00249	451.5	0.00000535	0.94163449
70.00	-60.0	-83.9	0.00251	455.7	0.00000510	0.94163959
68.00	-59.3	-84.1	0.00253	460.9	0.00000515	0.94164473
66.00	-59.3	-84.2	0.00256	464.8	0.00000520	0.94164993
64.00	-60.0	-84.4	0.00254	467.5	0.00000521	0.94165514
62.10	-59.6	-84.4	0.00262	472.5	0.00000500	0.94166014
60.40	-59.1	-84.4	0.00269	477.3	0.00000461	0.94166475
58.70	-58.7	-84.4	0.00277	482.2	0.00000474	0.94166949
56.90	-58.5	-84.4	0.00286	487.0	0.00000517	0.94167466
55.00	-58.0	-84.7	0.00279	492.7	0.00000548	0.94168014
53.30	-57.8	-85.0	0.00277	497.6	0.00000482	0.94168496
51.90	-57.8	-85.3	0.00268	501.4	0.00000389	0.94168885
50.20	-57.8	-85.4	0.00271	506.2	0.00000467	0.94169352
48.60	-56.8	-85.4	0.00280	513.4	0.00000450	0.94169802
47.10	-55.9	-85.4	0.00289	520.0	0.00000435	0.94170237
45.60	-55.1	-85.5	0.00292	526.8	0.00000445	0.94170682
44.10	-54.8	-85.9	0.00284	532.8	0.00000441	0.94171123
42.70	-54.6	-86.1	0.00281	538.2	0.00000404	0.94171527
41.20	-54.8	-86.6	0.00267	543.3	0.00000420	0.94171947
40.00	-54.9	-86.8	0.00269	547.4	0.00000329	0.94172275
38.60	-55.3	-87.0	0.00267	552.0	0.00000383	0.94172658
37.30	-56.2	-87.3	0.00264	555.3	0.00000352	0.94173011
36.00	-57.0	-87.5	0.00261	558.9	0.00000349	0.94173359
34.70	-57.0	-87.8	0.00259	564.8	0.00000345	0.94173704
33.50	-57.2	-87.9	0.00262	569.9	0.00000319	0.94174023
32.30	-58.0	-88.2	0.00257	573.6	0.00000318	0.94174340
31.20	-58.5	-88.6	0.00249	578.2	0.00000284	0.94174624
30.00	-58.0	-87.9	0.00292	585.9	0.00000332	0.94174956
29.00	-57.0	-87.9	0.00302	594.5	0.00000304	0.94175260
28.00	-56.4	-88.0	0.00306	602.2	0.00000310	0.94175570

Table 16 (continued)

WASHINGTON,D.C. 11/22/69 1930Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
27.00	-55.9	-88.2	0.00310	609.6	0.00000314	0.94175884
26.00	-56.2	-88.3	0.00314	615.6	0.00000318	0.94176202
25.00	-56.4	-88.6	0.00311	622.0	0.00000319	0.94176521
24.00	-56.6	-88.9	0.00308	628.7	0.00000316	0.94176837
23.10	-56.4	-89.1	0.00304	636.2	0.00000281	0.94177119
22.20	-56.2	-89.4	0.00301	644.1	0.00000278	0.94177397
21.30	-55.9	-89.6	0.00306	652.3	0.00000279	0.94177675
20.40	-55.7	-89.7	0.00311	661.1	0.00000283	0.94177958
19.50	-55.7	-90.0	0.00308	669.6	0.00000284	0.94178242
18.70	-55.3	-90.2	0.00313	678.9	0.00000254	0.94178496
17.90	-55.1	-90.3	0.00318	688.1	0.00000258	0.94178753
17.00	-54.9	-90.8	0.00308	699.0	0.00000287	0.94179041
16.20	-55.1	-91.1	0.00305	708.0	0.00000250	0.94179291
15.40	-56.2	-91.2	0.00312	715.0	0.00000252	0.94179543
14.70	-57.2	-91.4	0.00317	721.1	0.00000225	0.94179768
14.00	-58.7	-91.5	0.00324	726.2	0.00000229	0.94179997
13.40	-58.9	-91.7	0.00328	734.6	0.00000199	0.94180196
12.80	-58.7	-92.0	0.00323	745.0	0.00000199	0.94180396
12.30	-58.5	-92.4	0.00316	754.3	0.00000163	0.94180559
11.80	-57.8	-92.4	0.00329	765.6	0.00000165	0.94180724
11.43	-57.0	-92.8	0.00312	775.6	0.00000121	0.94180845
11.10	-56.6	-92.8	0.00321	783.7	0.00000107	0.94180951
10.73	-56.4	-92.8	0.00332	792.0	0.00000123	0.94181075
10.40	-55.9	-92.6	0.00358	800.6	0.00000116	0.94181191
10.16	-56.8	-92.1	0.00398	803.0	0.00000093	0.94181283
9.90	-57.4	-92.9	0.00357	806.6	0.00000100	0.94181384
9.70	-57.2	-92.9	0.00364	812.1	0.00000074	0.94181457
9.50	-57.0	-92.9	0.00372	817.7	0.00000075	0.94181532
9.32	-56.4	-92.9	0.00379	824.6	0.00000069	0.94181601
9.13	-55.7	-93.0	0.00374	831.8	0.00000073	0.94181674
8.97	-54.8	-93.2	0.00369	839.8	0.00000061	0.94181735
8.80	-54.2	-93.4	0.00363	846.7	0.00000063	0.94181798
8.67	-53.8	-92.9	0.00407	851.8	0.00000051	0.94181849
8.55	-53.8	-92.5	0.00441	855.2	0.00000052	0.94181901
8.45	-53.2	-92.2	0.00475	860.3	0.00000047	0.94181948
8.40	-52.5	-91.7	0.00523	864.7	0.00000025	0.94181973
8.36	-53.0	-91.5	0.00542	863.6	0.00000022	0.94181995

Table 17

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1026.10					
1014.00	17.76	0.00017	7.9	280.0	0.02902
1002.00	18.29	0.00034	7.6	280.6	0.03024
989.00	18.74	0.00053	7.2	281.2	0.03140
978.00	19.26	0.00070	6.9	281.8	0.03263
964.00	19.33	0.00092	6.4	282.5	0.03323
956.00	19.91	0.00105	5.9	282.6	0.03451
935.00	17.06	0.00135	5.6	284.1	0.03024
920.00	23.96	0.00166	5.1	285.0	0.04315
905.00	34.09	0.00210	4.7	285.9	0.06242
891.00	41.63	0.00261	4.3	286.7	0.07742
878.00	46.09	0.00315	4.1	287.8	0.08698
865.00	45.62	0.00368	4.1	289.0	0.08739
852.00	39.52	0.00416	3.6	289.7	0.07686
840.00	31.91	0.00451	2.1	289.4	0.06295
827.00	29.21	0.00487	1.2	289.6	0.05853
814.00	29.21	0.00524	0.3	290.1	0.05946
802.00	28.62	0.00558	-0.3	290.6	0.05912
790.00	29.09	0.00592	-0.7	291.4	0.06102
778.50	28.60	0.00625	-1.2	292.2	0.06087
767.00	28.01	0.00658	-2.0	292.6	0.06050
755.00	25.55	0.00690	-2.4	293.4	0.05608
742.00	24.39	0.00723	-2.9	294.3	0.05446
731.30	24.45	0.00751	-3.2	295.2	0.05539
720.00	24.07	0.00781	-3.4	296.3	0.05539
709.00	24.50	0.00811	-3.3	297.7	0.05726
700.00	24.56	0.00836	-3.2	299.0	0.05814
689.00	25.86	0.00868	-2.4	301.2	0.06220
678.00	27.06	0.00902	-1.8	303.2	0.06612
668.00	25.64	0.00932	-2.4	303.9	0.06361
657.00	23.82	0.00964	-3.3	304.3	0.06007
646.80	22.22	0.00991	-4.4	304.4	0.05693
636.00	22.15	0.01021	-5.3	304.9	0.05771
626.50	22.15	0.01047	-5.9	305.4	0.05858
617.00	22.15	0.01074	-6.6	306.0	0.05948
606.30	21.67	0.01104	-7.5	306.5	0.05923
597.00	20.65	0.01129	-8.6	306.5	0.05732
588.00	19.77	0.01152	-9.4	307.0	0.05570
578.00	19.77	0.01179	-10.3	307.4	0.05667
568.70	20.23	0.01205	-11.3	307.7	0.05894
559.00	19.75	0.01232	-12.2	308.1	0.05855
549.00	19.75	0.01260	-12.7	309.1	0.05962
540.00	19.75	0.01286	-13.2	310.0	0.06062
531.80	19.69	0.01310	-14.0	310.5	0.06134
523.00	19.21	0.01335	-14.6	311.2	0.06087
515.00	18.73	0.01358	-15.6	311.3	0.06025
507.00	17.89	0.01380	-16.7	311.4	0.05848
498.00	17.11	0.01404	-17.7	311.8	0.05695
490.00	16.08	0.01425	-18.7	312.0	0.05439
482.60	15.36	0.01443	-19.5	312.4	0.05272
475.00	15.29	0.01462	-20.1	313.1	0.05333
487.00	14.71	0.01433	-20.8	309.9	0.05005
459.00	14.65	0.01502	-21.3	314.6	0.05290
452.00	14.64	0.01520	-21.6	315.7	0.05368
445.00	14.63	0.01538	-21.9	316.6	0.05449
437.50	14.07	0.01557	-22.8	317.0	0.05329

Table 17 (continued)

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
430.00	14.06	0.01576	-23.8	317.3	0.05419
422.70	13.89	0.01594	-25.0	317.4	0.05443
415.00	13.41	0.01614	-26.2	317.5	0.05354
407.50	13.40	0.01633	-27.5	317.5	0.05450
400.00	12.93	0.01652	-28.8	317.5	0.05355
393.70	12.45	0.01668	-30.1	317.2	0.05241
387.00	12.45	0.01685	-31.3	317.3	0.05329
380.30	11.97	0.01701	-32.3	317.4	0.05217
373.00	11.51	0.01719	-33.0	318.3	0.05112
366.00	11.00	0.01735	-34.2	318.4	0.04978
359.00	10.53	0.01751	-35.3	318.7	0.04858
352.80	10.06	0.01765	-35.7	319.8	0.04723
346.00	10.52	0.01781	-36.4	320.6	0.05038
339.80	10.09	0.01796	-37.2	321.1	0.04922
333.00	10.12	0.01812	-38.2	321.7	0.05038
327.00	10.97	0.01828	-39.2	321.9	0.05558
321.00	11.00	0.01844	-40.1	322.5	0.05679
314.50	10.06	0.01860	-41.1	322.9	0.05301
308.00	9.56	0.01876	-42.3	323.2	0.05142
302.20	9.05	0.01889	-43.5	323.2	0.04963
297.00	8.56	0.01901	-44.5	323.5	0.04773
290.00	8.55	0.01917	-45.6	324.1	0.04886
284.00	8.97	0.01932	-46.7	324.4	0.05233
278.60	8.54	0.01945	-47.7	324.8	0.05079
273.00	8.57	0.01959	-48.9	325.0	0.05200
267.40	7.64	0.01971	-49.8	325.6	0.04735
262.00	8.09	0.01984	-50.8	326.0	0.05119
256.00	8.03	0.01999	-51.5	327.1	0.05197
250.00	7.09	0.02012	-52.6	327.7	0.04699
244.80	6.21	0.02022	-53.8	328.0	0.04200
240.00	4.96	0.02030	-54.6	328.7	0.03426
234.30	5.41	0.02040	-55.7	329.1	0.03824
229.00	6.17	0.02052	-56.6	330.0	0.04464
224.00	5.37	0.02061	-57.8	330.2	0.03972
219.00	5.37	0.02070	-58.9	330.7	0.04061
213.80	4.90	0.02080	-59.6	331.9	0.03795
209.00	4.87	0.02089	-60.5	332.6	0.03859
204.50	5.33	0.02098	-61.6	332.9	0.04316
200.00	5.30	0.02107	-62.9	333.1	0.04390
194.60	5.29	0.02118	-63.6	334.5	0.04507
190.00	4.78	0.02127	-64.9	334.7	0.04170
185.30	4.30	0.02136	-66.2	334.9	0.03841
181.00	4.30	0.02144	-66.8	336.3	0.03933
176.30	5.20	0.02155	-66.5	339.3	0.04892
172.00	8.19	0.02171	-66.2	342.1	0.07888
168.00	11.22	0.02192	-66.0	344.9	0.11070
164.00	15.45	0.02221	-66.0	347.3	0.15610
160.10	18.27	0.02256	-66.0	349.7	0.18911
156.00	21.33	0.02299	-66.0	352.3	0.22654
153.20	21.33	0.02330	-66.0	354.1	0.23069
150.00	22.00	0.02366	-66.0	356.3	0.24298
146.80	21.92	0.02404	-66.0	358.5	0.24742
144.00	21.24	0.02436	-66.2	360.0	0.24437
141.00	21.21	0.02471	-66.2	362.1	0.24929
138.00	22.16	0.02509	-66.0	364.8	0.26604

Table 17 (continued)

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
135.60	22.14	0.02540	-65.2	368.1	0.27060
133.00	25.34	0.02578	-64.9	370.6	0.31567
130.40	33.96	0.02631	-64.9	372.7	0.43152
128.00	47.40	0.02701	-64.4	375.6	0.61365
125.40	59.02	0.02796	-64.1	378.3	0.77991
123.00	60.14	0.02888	-64.1	380.4	0.81018
121.00	57.35	0.02962	-64.4	381.7	0.78539
119.00	56.26	0.03036	-64.9	382.6	0.78333
116.40	58.46	0.03138	-64.4	386.0	0.83224
114.00	62.45	0.03241	-64.1	388.8	0.90768
112.00	65.84	0.03333	-63.6	391.7	0.97411
110.00	70.61	0.03434	-63.6	393.7	1.06368
108.00	79.15	0.03548	-62.9	397.2	1.21433
106.00	89.74	0.03681	-62.4	400.3	1.40277
103.80	97.24	0.03842	-61.6	404.0	1.55227
101.50	101.91	0.04022	-61.2	407.5	1.66365
99.60	102.24	0.04175	-61.2	409.8	1.70086
97.50	98.46	0.04340	-60.9	412.7	1.67324
95.50	93.87	0.04494	-60.7	415.6	1.62866
93.60	92.42	0.04641	-60.5	418.5	1.63615
91.80	91.45	0.04781	-60.5	420.8	1.65073
89.90	89.46	0.04928	-60.5	423.3	1.64896
88.00	88.57	0.05078	-60.5	425.9	1.66777
86.10	83.35	0.05221	-60.5	428.6	1.60402
84.50	79.93	0.05340	-60.5	430.9	1.56729
82.70	79.75	0.05475	-60.9	432.6	1.59797
81.10	80.17	0.05599	-61.2	434.5	1.63795
79.10	85.67	0.05768	-60.7	438.6	1.79473
77.50	91.57	0.05916	-59.8	443.1	1.95787
76.00	95.01	0.06062	-59.6	446.0	2.07149
74.40	94.96	0.06222	-60.0	447.8	2.11492
72.80	94.21	0.06384	-60.0	450.6	2.14421
71.20	93.02	0.06547	-60.0	453.5	2.16489
69.60	88.31	0.06705	-60.2	455.9	2.10253
68.00	85.59	0.06862	-60.5	458.5	2.08562
66.60	84.88	0.07002	-60.5	461.2	2.11191
65.20	92.86	0.07158	-60.5	464.0	2.36003
63.80	100.06	0.07329	-60.7	466.4	2.59875
62.20	100.38	0.07530	-60.7	469.8	2.67412
61.00	100.01	0.07684	-60.9	471.9	2.71661
59.50	101.17	0.07883	-60.7	475.8	2.81739
58.30	104.14	0.08051	-60.2	479.6	2.95976
57.20	108.40	0.08214	-59.3	484.2	3.14011
56.00	114.92	0.08406	-58.7	488.7	3.40054
54.80	119.97	0.08611	-58.0	493.2	3.62753
53.60	124.68	0.08829	-57.8	496.8	3.85424
52.50	128.45	0.09039	-57.4	500.8	4.05402
51.20	130.68	0.09298	-57.8	503.4	4.22914
50.10	132.11	0.09525	-58.2	505.5	4.36951
49.00	132.11	0.09756	-58.2	508.7	4.46760
48.00	132.04	0.09971	-58.2	511.7	4.55829
47.00	133.12	0.10193	-58.0	515.3	4.69336
46.00	139.76	0.10430	-57.8	519.0	5.03423
45.00	138.57	0.10670	-57.4	523.3	5.10232
44.10	138.57	0.10891	-57.2	526.9	5.20645

Table 17 (continued)

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
43.20	142.55	0.11123	-56.6	531.5	5.46774
42.30	145.72	0.11366	-55.3	537.7	5.70814
41.40	142.40	0.11607	-55.3	541.0	5.69954
40.50	134.37	0.11841	-55.3	544.4	5.49749
39.70	128.84	0.12044	-55.1	548.1	5.37754
38.83	129.26	0.12270	-55.1	551.5	5.51591
38.00	131.46	0.12494	-54.8	556.0	5.73228
37.20	131.89	0.12716	-54.2	560.8	5.87493
36.40	131.16	0.12941	-54.0	564.8	5.97067
35.60	134.01	0.13176	-53.4	569.9	6.23758
34.80	135.56	0.13419	-54.0	572.1	6.45471
34.03	135.93	0.13659	-54.2	575.3	6.61862
33.30	135.58	0.13891	-54.2	578.9	6.74626
32.50	135.94	0.14152	-54.4	582.4	6.93092
31.75	137.03	0.14405	-54.6	585.8	7.15153
31.03	134.18	0.14648	-54.8	589.1	7.16497
30.30	131.61	0.14895	-55.9	589.9	7.19752
29.70	130.52	0.15101	-56.6	591.6	7.28168
29.00	133.12	0.15352	-55.9	597.3	7.60635
28.37	135.67	0.15587	-55.3	602.7	7.92410
27.70	137.12	0.15846	-55.7	605.7	8.20237
27.10	137.84	0.16084	-55.3	610.7	8.42823
26.40	138.57	0.16371	-55.3	615.2	8.69714
25.80	141.46	0.16628	-55.1	619.9	9.08536
25.20	143.26	0.16894	-55.1	624.0	9.41984
24.70	142.25	0.17119	-55.5	626.5	9.54285
24.10	141.31	0.17393	-55.7	630.3	9.71560
23.55	139.86	0.17648	-55.9	633.9	9.84103
23.00	139.22	0.17908	-56.6	636.4	10.02972
22.45	138.50	0.18173	-57.0	639.6	10.22211
21.90	138.21	0.18443	-58.0	641.0	10.45701
21.40	137.49	0.18694	-58.0	645.2	10.64574
20.90	139.00	0.18953	-57.2	652.2	11.02035
20.40	139.36	0.19220	-57.0	657.3	11.31978
20.00	137.20	0.19434	-57.2	660.4	11.36667
19.50	136.91	0.19708	-57.2	665.2	11.63403
19.10	136.91	0.19932	-56.6	671.1	11.87768
18.60	136.91	0.20219	-56.2	677.5	12.19697
18.20	136.91	0.20454	-55.9	682.3	12.46504
17.75	136.99	0.20725	-55.1	689.8	12.78831
17.30	137.34	0.21003	-54.4	697.3	13.15493
16.93	137.06	0.21237	-54.2	702.3	13.41476
16.50	137.42	0.21516	-54.6	706.2	13.80048
16.17	139.58	0.21739	-54.6	710.3	14.30341
15.80	139.58	0.21994	-54.6	715.0	14.63826
15.40	138.50	0.22274	-55.1	718.3	14.90256
15.00	136.43	0.22558	-56.2	720.4	15.07094
14.65	136.07	0.22811	-55.9	726.0	15.39051
14.30	135.36	0.23070	-55.1	733.7	15.68423
14.00	134.64	0.23295	-55.3	737.5	15.93557
13.70	133.53	0.23524	-56.2	739.3	16.15091
13.35	131.80	0.23793	-56.2	744.8	16.35959
13.00	128.92	0.24063	-56.2	750.5	16.43283
12.68	126.11	0.24312	-56.6	754.4	16.47975
12.40	124.31	0.24531	-57.2	757.1	16.61114

Table 17 (continued)

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
12.10	122.87	0.24768	-56.2	766.0	16.82561
11.80	122.15	0.25010	-54.9	775.8	17.15219
11.52	121.79	0.25241	-55.1	780.4	17.51726
11.20	119.98	0.25508	-55.3	786.0	17.75122
10.95	118.18	0.25719	-56.4	787.5	17.88388
10.70	114.20	0.25927	-57.2	789.6	17.68522
10.48	108.82	0.26106	-57.2	794.3	17.20622
10.20	105.25	0.26331	-56.8	802.1	17.09850
9.98	100.71	0.26504	-56.4	808.6	16.72174
9.75	94.72	0.26678	-55.7	816.3	16.09835
9.52	90.20	0.26848	-55.9	821.1	15.69992
9.30	89.85	0.27014	-56.2	825.8	16.00804
9.10	90.91	0.27170	-55.7	832.5	16.55387
8.93	90.96	0.27306	-54.9	840.1	16.87792
8.80	87.41	0.27407	-55.9	839.8	16.45817
8.67	83.00	0.27504	-56.6	841.0	15.86308
8.57	82.61	0.27580	-55.7	846.9	15.97323
8.48	81.14	0.27648	-54.9	852.6	15.85568
8.42	79.21	0.27692	-54.6	855.9	15.58704
8.38	75.72	0.27721	-54.0	859.3	14.97231
8.36	74.13	0.27735	-53.0	863.6	14.69207

Table 17 (continued)

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
205.00					
201.00	12.14	0.00019	-63.6	331.4	0.10010
197.00	12.36	0.00039	-64.9	331.3	0.10395
192.50	12.00	0.00060	-65.7	332.2	0.10333
188.00	12.30	0.00083	-66.2	333.6	0.10839
184.00	8.21	0.00097	-67.1	334.3	0.07396
180.00	4.01	0.00104	-68.0	334.9	0.03695
176.00	4.06	0.00111	-68.0	337.1	0.03824
172.50	25.02	0.00151	-67.7	339.5	0.24036
168.70	27.82	0.00200	-67.1	342.6	0.27324
165.00	31.84	0.00256	-66.5	345.8	0.31973
161.50	34.68	0.00315	-66.0	348.8	0.35585
158.00	34.85	0.00375	-65.7	351.5	0.36552
155.00	34.58	0.00427	-65.4	353.9	0.36967
151.50	36.30	0.00493	-65.2	356.6	0.39704
147.50	36.48	0.00570	-64.9	359.8	0.40979
144.00	34.43	0.00635	-64.6	362.8	0.39619
140.70	33.25	0.00696	-64.9	364.7	0.39154
137.50	41.31	0.00771	-64.9	367.1	0.49785
134.20	56.20	0.00879	-65.2	369.2	0.69387
131.00	68.74	0.01010	-64.9	372.2	0.86942
128.00	76.03	0.01149	-64.1	376.1	0.98417
125.00	81.27	0.01301	-64.1	378.7	1.07735
122.00	85.35	0.01465	-64.1	381.3	1.15915
119.00	89.69	0.01641	-63.6	385.0	1.24892
116.00	95.55	0.01834	-62.9	389.2	1.36485
113.00	104.54	0.02050	-61.9	393.9	1.53288
110.30	115.34	0.02270	-61.2	398.0	1.73264
107.50	124.51	0.02523	-60.9	401.4	1.91922
104.70	126.55	0.02787	-60.9	404.4	2.00275
102.50	128.62	0.03002	-61.2	406.4	2.07929
99.40	119.05	0.03291	-61.4	409.5	1.98451
97.00	114.17	0.03511	-61.4	412.4	1.95035
94.60	114.52	0.03738	-61.4	415.4	2.00587
92.10	116.32	0.03984	-61.2	419.0	2.09278
89.90	117.98	0.04209	-60.9	422.4	2.17464
87.60	115.84	0.04446	-60.9	425.5	2.19124
85.20	103.18	0.04672	-60.9	428.9	2.00669
83.00	101.29	0.04881	-61.2	431.7	2.02214
80.80	105.63	0.05105	-61.6	434.0	2.16627
78.80	108.17	0.05320	-61.6	437.1	2.27462
76.50	107.35	0.05571	-61.2	441.8	2.32525
74.10	106.32	0.05838	-60.7	446.9	2.37760
72.00	103.26	0.06073	-60.2	451.5	2.37641
70.00	107.15	0.06311	-60.0	455.7	2.53644
68.00	116.16	0.06577	-59.3	460.9	2.83061
66.00	116.87	0.06852	-59.3	464.8	2.93410
64.00	114.51	0.07130	-60.0	467.5	2.96469
62.10	114.52	0.07403	-59.6	472.5	3.05576
60.40	120.63	0.07667	-59.1	477.3	3.30931
58.70	125.93	0.07951	-58.7	482.2	3.55487
56.90	134.70	0.08282	-58.5	487.0	3.92266
55.00	141.15	0.08661	-58.0	492.7	4.25242
53.30	144.73	0.09020	-57.8	497.6	4.49947
51.90	147.72	0.09330	-57.8	501.4	4.71620
50.20	150.81	0.09727	-57.8	506.2	4.97778

Table 17 (continued)

WASHINGTON,D.C. 11/22/69 1930Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
48.60	154.07	0.10121	-56.8	513.4	5.25297
47.10	158.40	0.10513	-55.9	520.0	5.57262
45.60	156.08	0.10912	-55.1	526.8	5.67169
44.10	147.29	0.11301	-54.8	532.8	5.53435
42.70	143.05	0.11665	-54.6	538.2	5.55105
41.20	139.70	0.12059	-54.8	543.3	5.61859
40.00	139.07	0.12384	-54.9	547.4	5.76079
38.60	137.00	0.12769	-55.3	552.0	5.88126
37.30	134.58	0.13133	-56.2	555.3	5.97873
36.00	135.03	0.13512	-57.0	558.9	6.21522
34.70	134.75	0.13903	-57.0	564.8	6.43452
33.50	130.56	0.14266	-57.2	569.9	6.45803
32.30	128.09	0.14635	-58.0	573.6	6.57106
31.20	131.39	0.14994	-58.5	578.2	6.97800
30.00	136.50	0.15417	-58.0	585.9	7.53945
29.00	142.38	0.15798	-57.0	594.5	8.13549
28.00	145.25	0.16200	-56.4	602.2	8.59580
27.00	145.70	0.16619	-55.9	609.6	8.94191
26.00	145.08	0.17051	-56.2	615.6	9.24580
25.00	143.26	0.17495	-56.4	622.0	9.49539
24.00	143.48	0.17957	-56.6	628.7	9.90615
23.10	144.22	0.18392	-56.4	636.2	10.34535
22.20	144.28	0.18845	-56.2	644.1	10.76877
21.30	143.21	0.19313	-55.9	652.3	11.14050
20.40	142.12	0.19797	-55.7	661.1	11.54364
19.50	141.84	0.20303	-55.7	669.6	12.05269
18.70	141.47	0.20771	-55.3	678.9	12.53600
17.90	141.40	0.21259	-55.1	688.1	13.08928
17.00	138.88	0.21824	-54.9	699.0	13.53680
16.20	134.56	0.22337	-55.1	708.0	13.76376
15.40	131.33	0.22862	-56.2	715.0	14.13041
14.70	127.37	0.23329	-57.2	721.1	14.35725
14.00	123.46	0.23805	-58.7	726.2	14.61198
13.40	121.25	0.24224	-58.9	734.6	14.99392
12.80	116.82	0.24647	-58.7	745.0	15.12304
12.30	113.53	0.25004	-58.5	754.3	15.29460
11.80	112.66	0.25373	-57.8	765.6	15.81994
11.43	110.79	0.25652	-57.0	775.6	16.06046
11.10	105.50	0.25896	-56.6	783.7	15.74939
10.73	98.29	0.26159	-56.4	792.0	15.17814
10.40	91.91	0.26386	-55.9	800.6	14.64434
10.16	87.28	0.26547	-56.8	803.0	14.23489
9.90	85.17	0.26721	-57.4	806.6	14.25440
9.70	84.57	0.26857	-57.2	812.1	14.44734
9.50	82.24	0.26992	-57.0	817.7	14.34387
9.32	80.81	0.27115	-56.4	824.6	14.36692
9.13	81.13	0.27246	-55.7	831.8	14.72481
8.97	77.62	0.27355	-54.8	839.8	14.33871
8.80	74.06	0.27467	-54.2	846.7	13.94519
8.67	70.81	0.27550	-53.8	851.8	13.53273
8.55	70.22	0.27627	-53.8	855.2	13.60889
8.45	69.83	0.27692	-53.2	860.3	13.69360
8.40	71.00	0.27725	-52.5	864.7	14.00549
8.36	73.95	0.27753	-53.0	863.6	14.65769

Table 18

WASHINGTON,D.C. 12/6/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1022.00	-1.6	-2.6	3.00555	269.8		
999.00	-1.9	-8.5	1.85768	271.3	0.05706848	0.05706848
973.00	-2.2	-19.0	0.72501	273.1	0.03426019	0.09132866
953.00	-1.9	-26.0	0.37465	275.0	0.01122100	0.10254966
934.00	-1.6	-28.7	0.29003	276.9	0.00644331	0.10899298
921.00	-4.7	-26.0	0.38767	274.9	0.00449497	0.11348795
909.00	-4.9	-24.2	0.46760	275.6	0.00523634	0.11872429
891.00	-4.5	-23.4	0.51584	277.6	0.00903156	0.12775585
871.00	-4.0	-24.0	0.50077	280.0	0.01037361	0.13812946
858.00	-3.8	-22.9	0.56506	281.5	0.00706935	0.14519880
845.00	-3.1	-22.3	0.60586	283.4	0.00776637	0.15296517
833.00	-2.6	-26.0	0.42865	285.1	0.00633379	0.15929896
822.00	-2.0	-25.5	0.45608	286.7	0.00496536	0.16426432
809.00	-1.6	-32.6	0.22223	288.5	0.00449902	0.16876334
794.70	-1.8	-36.0	0.15740	289.8	0.00276977	0.17153312
781.00	-2.0	-34.2	0.19455	291.0	0.00246009	0.17399320
769.00	-2.2	-30.3	0.29702	292.1	0.00300960	0.17700280
755.50	-2.3	-31.7	0.26234	293.4	0.00385272	0.18085552
742.00	-2.6	-29.7	0.32781	294.7	0.00406480	0.18492032
730.00	-2.8	-28.5	0.37940	295.8	0.00432984	0.18925016
717.00	-2.7	-36.0	0.17446	297.4	0.00367360	0.19292376
704.50	-2.6	-36.0	0.17756	299.1	0.00224505	0.19516881
691.00	-3.0	-34.7	0.20830	300.3	0.00265772	0.19782652
679.00	-3.5	-34.0	0.22791	301.2	0.00267070	0.20049723
667.00	-4.2	-22.6	0.74703	302.0	0.00596903	0.20646626
655.00	-4.9	-22.3	0.78183	302.7	0.00936037	0.21582663
643.00	-6.0	-19.0	1.09776	303.1	0.01150769	0.22733433
631.00	-7.3	-18.4	1.19112	303.3	0.01401352	0.24134784
620.00	-8.4	-15.9	1.52942	303.5	0.01526831	0.25661615
617.00	-8.7	-14.3	1.77295	303.6	0.00505464	0.26167079
607.00	-9.6	-14.3	1.80224	304.0	0.01824075	0.27991155
598.00	-10.6	-13.9	1.89844	304.1	0.01699294	0.29690448
588.00	-10.9	-15.9	1.61287	305.2	0.01791486	0.31481934
579.00	-11.2	-19.3	1.18232	306.2	0.01283506	0.32765440
570.00	-11.6	-18.7	1.27787	307.2	0.01129682	0.33895122
561.00	-11.8	-20.6	1.08251	308.3	0.01083848	0.34978970
552.00	-12.1	-23.7	0.81142	309.4	0.00869660	0.35848630
543.50	-12.5	-25.0	0.72513	310.3	0.00666361	0.36514991
535.00	-12.7	-27.4	0.57963	311.4	0.00565840	0.37080831
526.50	-13.1	-29.5	0.47201	312.4	0.00456066	0.37536896
518.00	-13.5	-29.7	0.46967	313.4	0.00408379	0.37945275
510.00	-14.2	-29.1	0.50869	313.9	0.00399329	0.38344604
501.70	-14.7	-30.9	0.42817	314.8	0.00396730	0.38741333
493.00	-15.5	-30.9	0.43573	315.4	0.00383464	0.39124797
484.00	-16.1	-34.2	0.31400	316.3	0.00344261	0.39469059
476.00	-16.8	-39.7	0.17265	316.9	0.00198633	0.39667692
468.00	-17.6	-39.5	0.18107	317.5	0.00144377	0.39812068
460.00	-18.7	-37.6	0.22628	317.7	0.00166266	0.39978335
452.00	-19.6	-36.9	0.25007	318.2	0.00194429	0.40172763
445.00	-20.7	-34.2	0.34153	318.2	0.00211285	0.40384048
437.00	-21.8	-34.0	0.35420	318.4	0.00283971	0.40668020
430.00	-22.9	-34.2	0.35345	318.5	0.00252732	0.40920752
422.00	-24.2	-34.3	0.35367	318.6	0.00288621	0.41209373
415.00	-25.1	-34.3	0.35964	319.0	0.00254754	0.41464127
408.00	-26.2	-34.5	0.35926	319.0	0.00256751	0.41720879

Table 18 (continued)

WASHINGTON,D.C. 12/6/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
400.00	-27.1	-34.3	0.37313	319.7	0.00298938	0.42019817
393.00	-28.4	-34.3	0.37978	319.6	0.00268900	0.42288717
386.00	-29.6	-34.0	0.40103	319.7	0.00278862	0.42567578
379.00	-30.3	-33.0	0.45678	320.4	0.00306361	0.42873939
372.00	-31.3	-31.7	0.53303	320.9	0.00353504	0.43227443
365.00	-31.9	-30.3	0.62610	321.7	0.00413973	0.43641416
358.30	-32.5	-29.9	0.66504	322.7	0.00441358	0.44082774
352.00	-33.3	-30.1	0.66291	323.3	0.00426840	0.44509615
345.00	-33.9	-30.7	0.63568	324.2	0.00463780	0.44973395
338.00	-34.9	-32.2	0.55315	324.8	0.00424579	0.45397974
332.00	-35.9	-33.7	0.48381	325.2	0.00317436	0.45715410
325.00	-36.7	-35.2	0.42004	326.0	0.00322803	0.46038213
319.20	-37.7	-37.2	0.34260	326.3	0.00225678	0.46263891
313.00	-38.7	-38.8	0.29266	326.8	0.00200950	0.46464841
307.00	-39.7	-40.5	0.24459	327.1	0.00164465	0.46629306
301.20	-40.9	-42.1	0.20935	327.3	0.00134329	0.46763635
295.00	-42.1	-43.6	0.17837	327.5	0.00122644	0.46886279
289.00	-42.8	-44.3	0.16791	328.4	0.00106004	0.46992283
283.30	-43.6	-45.0	0.15821	329.1	0.00094843	0.47087127
275.50	-44.4	-46.1	0.14296	330.6	0.00119854	0.47206981
272.20	-45.4	-47.1	0.12759	330.4	0.00045551	0.47252532
267.00	-46.3	-47.7	0.12081	330.8	0.00065901	0.47318433
261.40	-47.3	-48.2	0.11612	331.3	0.00067693	0.47386126
256.00	-48.7	-49.4	0.10277	331.3	0.00060306	0.47446433
250.50	-49.7	-50.9	0.08729	331.8	0.00053333	0.47499765
245.00	-51.0	-52.2	0.07626	332.1	0.00045894	0.47545659
240.00	-52.1	-53.0	0.06974	332.4	0.00037246	0.47582905
234.00	-53.2	-54.0	0.06351	333.1	0.00040790	0.47623695
229.00	-54.4	-54.8	0.05834	333.4	0.00031082	0.47654777
224.00	-55.8	-55.7	0.05313	333.3	0.00028435	0.47683212
219.20	-56.6	-56.2	0.05048	334.1	0.00025375	0.47708587
214.00	-57.7	-56.6	0.04911	334.8	0.00026423	0.47735010
209.40	-58.3	-57.0	0.04768	335.8	0.00022716	0.47757726
204.00	-59.4	-57.4	0.04651	336.6	0.00025949	0.47783675
200.00	-60.3	-57.8	0.04509	337.1	0.00018692	0.47802367
196.00	-61.0	-58.7	0.04076	337.9	0.00017520	0.47819886
191.80	-62.2	-63.9	0.02052	338.1	0.00013131	0.47833017
187.00	-63.2	-65.1	0.01770	338.9	0.00009359	0.47842376
182.50	-64.0	-67.2	0.01344	340.0	0.00007150	0.47849527
178.00	-65.1	-67.1	0.01405	340.7	0.00006313	0.47855840
174.00	-65.3	-68.3	0.01195	342.5	0.00005307	0.47861146
169.00	-64.8	-69.7	0.01001	346.3	0.00005602	0.47866748
165.00	-63.5	-72.0	0.00729	350.8	0.00003531	0.47870279
161.00	-63.8	-72.9	0.00647	352.9	0.00002809	0.47873089
157.00	-64.3	-72.3	0.00728	354.5	0.00002807	0.47875896
153.00	-65.1	-71.1	0.00906	355.8	0.00003335	0.47879231
149.00	-65.6	-71.9	0.00824	357.6	0.00003531	0.47882762
145.00	-65.6	-72.9	0.00726	360.3	0.00003164	0.47885926
141.00	-65.6	-72.2	0.00828	363.2	0.00003171	0.47889097
137.00	-64.0	-72.9	0.00761	369.1	0.00003242	0.47892338
133.60	-62.0	-76.0	0.00483	375.3	0.00002158	0.47894496
130.00	-62.0	-77.3	0.00406	378.2	0.00001633	0.47896129
126.50	-62.2	-77.7	0.00394	380.8	0.00001429	0.47897558
123.00	-62.7	-77.9	0.00392	382.9	0.00001403	0.47898961
120.00	-63.2	-77.7	0.00411	384.7	0.00001228	0.47900189

Table 18 (continued)

WASHINGTON,D.C. 12/6/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
117.00	-63.8	-77.9	0.00412	386.6	0.00001259	0.47901448
113.60	-64.5	-78.2	0.00405	388.4	0.00001416	0.47902865
110.00	-64.5	-78.3	0.00408	392.0	0.00001494	0.47904358
106.80	-63.5	-78.5	0.00406	397.2	0.00001330	0.47905688
103.50	-63.0	-78.9	0.00395	401.8	0.00001349	0.47907037
100.50	-63.5	-79.1	0.00392	404.2	0.00001205	0.47908242
97.90	-64.0	-79.4	0.00384	406.2	0.00001030	0.47909272
94.80	-64.5	-79.5	0.00387	409.0	0.00001220	0.47910492
92.00	-65.1	-79.6	0.00394	411.4	0.00001116	0.47911607
88.90	-65.1	-79.7	0.00403	415.5	0.00001260	0.47912868
86.00	-65.1	-79.8	0.00406	419.4	0.00001197	0.47914065
83.40	-65.1	-80.0	0.00409	423.1	0.00001081	0.47915147
80.80	-64.5	-80.4	0.00397	428.1	0.00001069	0.47916215
78.50	-64.8	-80.6	0.00393	431.1	0.00000927	0.47917142
75.60	-65.1	-80.7	0.00398	435.2	0.00001171	0.47918313
73.10	-64.0	-81.1	0.00386	441.6	0.00001001	0.47919314
70.60	-63.2	-81.4	0.00385	447.7	0.00000984	0.47920298
68.20	-62.5	-81.6	0.00383	453.7	0.00000941	0.47921239
65.90	-61.3	-82.0	0.00372	460.8	0.00000886	0.47922125
63.60	-60.8	-82.3	0.00365	466.6	0.00000865	0.47922990
61.40	-60.3	-82.8	0.00349	472.3	0.00000801	0.47923791
59.20	-60.3	-83.0	0.00347	477.3	0.00000781	0.47924573
57.20	-60.8	-83.3	0.00345	480.9	0.00000706	0.47925279
55.10	-60.3	-83.6	0.00339	487.2	0.00000732	0.47926011
53.00	-59.2	-83.9	0.00333	495.3	0.00000719	0.47926731
51.10	-58.3	-84.4	0.00317	502.5	0.00000629	0.47927360
49.30	-57.4	-84.8	0.00309	509.7	0.00000575	0.47927935
47.40	-56.8	-85.1	0.00303	517.0	0.00000594	0.47928529
45.70	-56.8	-85.3	0.00305	522.4	0.00000528	0.47929057
44.00	-57.0	-85.3	0.00317	527.6	0.00000540	0.47929596
42.20	-57.7	-85.3	0.00331	532.4	0.00000595	0.47930191
40.60	-58.3	-85.3	0.00344	536.7	0.00000550	0.47930741
38.80	-58.1	-85.2	0.00365	544.2	0.00000651	0.47931392
37.30	-57.9	-85.3	0.00374	550.9	0.00000566	0.47931958
35.70	-57.7	-85.5	0.00373	558.4	0.00000610	0.47932568
34.20	-57.4	-85.7	0.00378	565.9	0.00000575	0.47933143
32.60	-57.0	-86.0	0.00379	574.8	0.00000618	0.47933761
30.90	-56.8	-86.2	0.00381	584.2	0.00000659	0.47934419
29.30	-57.4	-86.5	0.00383	591.4	0.00000624	0.47935043
27.80	-58.3	-87.0	0.00373	598.0	0.00000578	0.47935622
26.20	-57.7	-87.3	0.00370	610.0	0.00000606	0.47936228
24.80	-57.0	-87.6	0.00372	621.5	0.00000530	0.47936759
23.30	-56.4	-87.9	0.00376	634.5	0.00000573	0.47937331
22.00	-56.0	-88.3	0.00372	646.3	0.00000496	0.47937828
20.80	-55.4	-88.8	0.00360	658.5	0.00000448	0.47938276
19.70	-54.8	-89.1	0.00361	670.7	0.00000405	0.47938681
18.90	-55.0	-89.5	0.00349	678.1	0.00000290	0.47938971
18.10	-55.6	-89.8	0.00345	684.6	0.00000283	0.47939254
17.20	-55.8	-90.0	0.00350	694.0	0.00000319	0.47939573
16.50	-55.8	-90.3	0.00344	702.3	0.00000248	0.47939820
15.75	-55.8	-90.5	0.00347	711.7	0.00000264	0.47940085
15.04	-55.8	-90.9	0.00342	721.1	0.00000250	0.47940334
14.40	-55.0	-90.9	0.00357	732.8	0.00000228	0.47940563
13.80	-54.0	-91.2	0.00351	745.2	0.00000217	0.47940780
13.30	-53.6	-91.4	0.00350	754.4	0.00000179	0.47940958

Table 18 (continued)

WASHINGTON,D.C. 12/6/69 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
12.76	-53.4	-91.7	0.00343	764.0	0.00000191	0.47941149
12.30	-53.4	-92.1	0.00334	772.1	0.00000159	0.47941308
11.85	-52.3	-92.4	0.00325	784.4	0.00000151	0.47941459
11.40	-51.3	-92.8	0.00316	796.4	0.00000147	0.47941606
11.13	-50.6	-93.2	0.00296	804.5	0.00000084	0.47941690
10.80	-50.3	-93.7	0.00278	812.8	0.00000097	0.47941787
10.58	-50.1	-93.7	0.00284	818.2	0.00000063	0.47941850
10.30	-49.9	-93.9	0.00284	825.2	0.00000081	0.47941931
10.12	-49.7	-94.0	0.00283	830.0	0.00000052	0.47941983
9.90	-49.9	-94.1	0.00282	834.6	0.00000063	0.47942047
9.75	-50.1	-94.2	0.00280	837.6	0.00000043	0.47942090
9.60	-49.9	-94.5	0.00271	841.9	0.00000042	0.47942132
9.47	-49.9	-94.6	0.00268	845.2	0.00000036	0.47942167

Table 19

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1022.00					
999.00	20.61	0.00037	-1.9	271.3	0.03418
973.00	24.84	0.00089	-2.2	273.1	0.04230
953.00	33.40	0.00144	-1.9	275.0	0.05806
934.00	35.51	0.00200	-1.6	276.9	0.06299
921.00	35.60	0.00239	-4.7	274.9	0.06405
909.00	36.13	0.00277	-4.9	275.6	0.06586
891.00	34.77	0.00332	-4.5	277.6	0.06466
871.00	36.21	0.00397	-4.0	280.0	0.06888
858.00	35.85	0.00439	-3.8	281.5	0.06923
845.00	35.30	0.00482	-3.1	283.4	0.06923
833.00	34.90	0.00521	-2.6	285.1	0.06942
822.00	34.06	0.00557	-2.0	286.7	0.06866
809.00	34.06	0.00600	-1.6	288.5	0.06976
794.70	34.49	0.00648	-1.8	289.8	0.07192
781.00	35.46	0.00697	-2.0	291.0	0.07524
769.00	36.43	0.00742	-2.2	292.1	0.07850
755.50	35.66	0.00791	-2.3	293.4	0.07822
742.00	35.55	0.00842	-2.6	294.7	0.07938
730.00	32.55	0.00884	-2.8	295.8	0.07389
717.00	34.04	0.00932	-2.7	297.4	0.07867
704.50	36.82	0.00983	-2.6	299.1	0.08661
691.00	35.84	0.01038	-3.0	300.3	0.08595
679.00	34.39	0.01086	-3.5	301.2	0.08391
667.00	32.88	0.01132	-4.2	302.0	0.08169
655.00	29.80	0.01175	-4.9	302.7	0.07540
643.00	27.55	0.01215	-6.0	303.1	0.07099
631.00	25.42	0.01253	-7.3	303.3	0.06676
620.00	25.42	0.01288	-8.4	303.5	0.06795
608.00	26.30	0.01329	-9.6	303.9	0.07168
597.00	25.41	0.01365	-10.7	304.1	0.07052
586.00	25.26	0.01402	-11.8	304.4	0.07142
575.00	25.18	0.01440	-12.6	305.2	0.07257
564.00	24.60	0.01478	-12.8	306.6	0.07228
553.00	21.68	0.01511	-13.1	308.0	0.06496
543.00	21.68	0.01542	-13.7	308.9	0.06616
533.00	23.99	0.01578	-14.3	309.8	0.07458
523.00	22.83	0.01612	-14.8	310.9	0.07233
513.00	20.51	0.01643	-15.3	312.0	0.06623
504.00	20.35	0.01672	-15.6	313.3	0.06692
494.00	20.48	0.01704	-15.7	314.9	0.06870
484.00	21.05	0.01738	-16.7	315.5	0.07206
474.00	20.59	0.01772	-17.8	316.1	0.07198
464.00	20.58	0.01806	-18.8	316.7	0.07348
455.00	20.58	0.01838	-19.6	317.6	0.07494
446.20	20.52	0.01870	-20.7	318.0	0.07619
438.00	20.52	0.01900	-21.9	318.1	0.07761
429.00	20.37	0.01933	-23.2	318.4	0.07869
420.00	19.35	0.01966	-24.3	318.8	0.07635
412.00	18.80	0.01994	-25.5	319.1	0.07562
403.80	18.75	0.02024	-26.6	319.5	0.07695
395.50	18.22	0.02054	-27.6	320.0	0.07632
388.00	17.67	0.02081	-28.4	320.8	0.07546
380.00	17.67	0.02110	-29.3	321.5	0.07705
372.00	17.12	0.02138	-30.6	321.7	0.07627
363.00	16.04	0.02170	-32.1	322.1	0.07323

Table 19 (continued)

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
354.50	16.04	0.02200	-33.0	323.0	0.07499
346.60	16.00	0.02228	-33.9	323.8	0.07649
339.00	19.78	0.02263	-35.0	324.4	0.09666
331.00	19.18	0.02299	-36.1	325.1	0.09601
323.00	17.62	0.02333	-37.4	325.6	0.09037
316.00	15.97	0.02360	-38.8	325.7	0.08375
309.00	13.30	0.02384	-40.4	325.5	0.07133
302.00	12.23	0.02406	-41.9	325.5	0.06710
295.00	12.72	0.02430	-42.8	326.4	0.07145
288.30	12.68	0.02453	-43.9	327.0	0.07289
282.00	12.15	0.02474	-44.9	327.7	0.07137
275.40	12.14	0.02497	-45.8	328.6	0.07304
269.00	13.15	0.02521	-47.0	329.1	0.08102
262.60	10.64	0.02541	-47.7	330.4	0.06715
256.00	9.52	0.02560	-48.7	331.3	0.06164
250.00	9.49	0.02578	-49.7	332.0	0.06291
244.00	7.78	0.02593	-50.8	332.7	0.05285
238.00	8.35	0.02609	-52.1	333.2	0.05810
232.00	9.48	0.02629	-53.4	333.6	0.06767
227.30	12.54	0.02649	-54.6	333.8	0.09144
222.00	13.06	0.02673	-56.0	333.9	0.09746
216.50	14.09	0.02701	-57.0	334.7	0.10786
211.00	16.73	0.02735	-57.9	335.8	0.13141
206.00	21.03	0.02775	-58.8	336.7	0.16919
201.00	23.06	0.02820	-59.6	337.7	0.19010
195.80	24.78	0.02871	-60.6	338.8	0.20969
191.00	25.74	0.02921	-61.8	339.3	0.22332
186.00	26.17	0.02976	-62.7	340.2	0.23318
181.00	25.55	0.03031	-63.5	341.7	0.23388
176.50	24.03	0.03079	-64.3	342.9	0.22556
172.00	24.55	0.03129	-64.3	345.4	0.23654
167.50	23.43	0.03178	-64.5	347.6	0.23179
163.00	19.91	0.03221	-64.8	349.9	0.20238
159.30	19.97	0.03257	-65.1	351.7	0.20771
155.00	21.48	0.03303	-65.3	354.0	0.22966
150.80	20.97	0.03349	-65.9	355.9	0.23046
147.00	27.65	0.03405	-66.2	358.0	0.31163
142.80	52.01	0.03524	-65.6	361.9	0.60346
139.00	28.10	0.03583	-63.0	369.3	0.33502
135.60	27.15	0.03637	-60.8	375.8	0.33181
132.00	32.84	0.03706	-61.5	377.5	0.41221
128.50	49.15	0.03811	-62.2	379.1	0.63376
125.00	37.88	0.03893	-62.5	381.6	0.50210
121.60	29.56	0.03958	-62.7	384.2	0.40281
118.00	34.01	0.04038	-62.5	387.9	0.47757
115.00	41.86	0.04123	-62.2	391.3	0.60318
112.00	42.83	0.04213	-62.0	394.7	0.63367
109.00	41.44	0.04302	-61.3	399.1	0.62999
106.00	36.09	0.04381	-62.2	400.5	0.56413
103.00	30.77	0.04451	-63.0	402.4	0.49501
100.00	34.03	0.04530	-63.0	405.8	0.56388
97.50	42.55	0.04615	-63.0	408.7	0.72320
95.00	45.09	0.04708	-63.0	411.8	0.78652
92.50	47.56	0.04808	-63.2	414.4	0.85204
90.00	48.20	0.04912	-63.5	417.2	0.88734

Table 19 (continued)

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
87.60	49.67	0.05018	-63.8	419.9	0.93955
85.20	59.09	0.05148	-64.0	422.7	1.14927
83.00	56.03	0.05264	-63.5	426.9	1.11850
80.90	53.63	0.05372	-63.8	429.5	1.09841
78.80	51.40	0.05479	-64.8	430.6	1.08092
76.60	48.29	0.05587	-65.3	433.0	1.04461
74.50	40.52	0.05676	-64.5	438.1	0.90132
72.50	41.22	0.05764	-63.8	443.2	0.94213
70.70	41.20	0.05846	-63.8	446.4	0.96561
68.80	40.75	0.05934	-64.0	449.3	0.98150
67.00	46.47	0.06031	-64.3	452.2	1.14915
65.00	54.88	0.06162	-64.5	455.5	1.39890
63.40	63.10	0.06286	-64.0	459.9	1.64926
61.70	65.81	0.06428	-63.5	464.7	1.76740
60.00	93.57	0.06634	-62.5	470.6	2.58401
58.40	108.43	0.06866	-61.8	475.9	3.07656
56.80	104.91	0.07096	-61.5	480.3	3.06062
55.20	109.82	0.07343	-61.5	484.2	3.29646
53.90	111.58	0.07553	-61.3	488.1	3.43030
52.60	111.58	0.07768	-61.0	492.0	3.51508
51.30	113.75	0.07993	-60.6	496.7	3.67409
50.00	117.78	0.08232	-60.1	501.4	3.90337
48.70	119.92	0.08481	-59.2	507.4	4.08034
47.40	124.32	0.08747	-58.8	512.4	4.34611
46.30	138.60	0.09004	-58.3	516.9	4.96039
45.00	154.28	0.09351	-57.7	522.7	5.68091
43.80	162.23	0.09697	-57.2	527.8	6.13736
42.60	163.92	0.10056	-57.2	532.0	6.37579
41.60	151.17	0.10340	-57.0	536.1	6.02133
40.50	151.61	0.10661	-56.6	541.3	6.20275
39.40	154.67	0.10997	-56.2	546.6	6.50457
38.40	158.57	0.11319	-56.8	549.1	6.84255
37.50	163.56	0.11625	-57.7	550.6	7.22732
36.50	172.25	0.11993	-57.4	555.4	7.81949
35.50	182.77	0.12394	-56.8	561.5	8.53087
34.60	182.73	0.12764	-57.7	563.4	8.75091
33.70	179.67	0.13138	-58.1	566.6	8.83412
32.85	178.27	0.13498	-57.9	571.3	8.99204
32.05	176.98	0.13842	-57.7	575.9	9.14987
31.20	175.76	0.14215	-57.4	580.9	9.33425
30.30	174.88	0.14619	-57.2	586.4	9.56356
29.60	173.14	0.14939	-56.6	592.0	9.69223
28.85	172.17	0.15288	-56.2	597.5	9.88850
28.10	167.34	0.15636	-56.0	602.6	9.86766
27.40	163.38	0.15961	-55.8	607.5	9.88043
26.70	162.93	0.16294	-56.0	611.5	10.11124
26.00	159.43	0.16628	-57.0	613.2	10.16046
25.30	157.75	0.16968	-57.9	615.5	10.33192
24.60	153.80	0.17309	-57.9	620.5	10.35945
23.90	152.43	0.17656	-57.9	625.6	10.56838
23.25	160.45	0.18006	-56.6	634.3	11.43528
22.60	159.13	0.18362	-55.6	642.5	11.66718
22.00	157.07	0.18696	-55.4	648.1	11.83038
21.40	152.73	0.19029	-54.6	655.6	11.82565
20.80	148.43	0.19362	-55.4	658.5	11.82437

Table 19 (continued)

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
20.25	145.86	0.19671	-56.0	661.7	11.93563
19.65	144.13	0.20013	-55.8	668.1	12.15355
19.10	140.54	0.20328	-55.6	674.2	12.19227
18.60	138.58	0.20619	-55.4	679.9	12.34586
18.10	136.61	0.20912	-54.6	687.7	12.50664
17.60	137.64	0.21217	-54.4	693.9	12.95809
17.10	137.36	0.21529	-53.8	701.5	13.31009
16.67	136.18	0.21803	-53.6	707.2	13.53629
16.20	133.38	0.22104	-54.0	711.8	13.64262
15.75	128.98	0.22391	-54.0	717.5	13.56961
15.30	124.45	0.22676	-53.6	724.8	13.47809
14.80	121.50	0.22995	-53.6	731.7	13.60319
14.40	117.57	0.23249	-53.8	736.8	13.52849
14.06	113.09	0.23463	-53.6	742.5	13.32846
13.70	109.70	0.23687	-53.6	748.0	13.26791
13.30	106.48	0.23936	-53.2	755.7	13.26599
12.90	103.10	0.24185	-52.8	763.6	13.24344
12.55	99.82	0.24402	-52.6	770.3	13.17903
12.20	98.31	0.24621	-52.5	777.2	13.35229
11.90	97.13	0.24812	-52.3	783.5	13.52433
11.60	97.00	0.25008	-52.1	789.9	13.85638
11.25	97.11	0.25243	-52.1	796.8	14.30287
10.90	96.76	0.25484	-51.9	804.7	14.70979
10.65	95.78	0.25660	-51.9	810.1	14.90283
10.40	90.97	0.25830	-51.9	815.6	14.49401
10.13	93.60	0.26025	-51.7	822.4	15.30987
9.90	94.08	0.26195	-51.2	829.9	15.74732
9.67	93.21	0.26368	-51.0	836.2	15.97180
9.50	92.56	0.26498	-50.4	842.4	16.14510
9.35	91.69	0.26613	-50.3	847.0	16.24848
9.20	90.42	0.26729	-50.1	851.6	16.28497
9.12	90.86	0.26791	-49.9	854.4	16.50764
9.05	87.22	0.26844	-49.9	856.3	15.96933
9.01	81.54	0.26873	-49.6	858.7	14.99501
8.98	79.37	0.26894	-49.4	860.2	14.64620
8.97	72.55	0.26900	-49.0	861.8	13.40116

Table 19 (continued)

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
644.00					
635.00	76.81	0.00085	-7.0	303.0	0.20043
626.00	74.20	0.00169	-7.9	303.2	0.19639
617.00	73.78	0.00253	-8.7	303.6	0.19813
607.00	73.89	0.00349	-9.6	304.0	0.20172
598.00	73.86	0.00436	-10.6	304.1	0.20466
588.00	74.66	0.00535	-10.9	305.2	0.21039
579.00	73.78	0.00625	-11.2	306.2	0.21114
570.00	72.22	0.00714	-11.6	307.2	0.20994
561.00	72.41	0.00805	-11.8	308.3	0.21386
552.00	71.99	0.00897	-12.1	309.4	0.21610
543.50	70.78	0.00984	-12.5	310.3	0.21579
535.00	66.49	0.01067	-12.7	311.4	0.20594
526.50	65.55	0.01150	-13.1	312.4	0.20631
518.00	65.86	0.01234	-13.5	313.4	0.21066
510.00	64.62	0.01314	-14.2	313.9	0.20996
501.70	60.03	0.01391	-14.7	314.8	0.19826
493.00	64.43	0.01480	-15.5	315.4	0.21656
484.00	67.78	0.01579	-16.1	316.3	0.23205
476.00	68.94	0.01670	-16.8	316.9	0.23999
468.00	70.10	0.01764	-17.6	317.5	0.24819
460.00	66.90	0.01855	-18.7	317.7	0.24099
452.00	63.93	0.01943	-19.6	318.2	0.23437
445.00	65.04	0.02023	-20.7	318.2	0.24220
437.00	64.72	0.02116	-21.8	318.4	0.24541
430.00	63.77	0.02197	-22.9	318.5	0.24576
422.00	64.20	0.02293	-24.2	318.6	0.25208
415.00	64.37	0.02378	-25.1	319.0	0.25700
408.00	65.25	0.02465	-26.2	319.0	0.26498
400.00	65.21	0.02567	-27.1	319.7	0.27014
393.00	65.67	0.02659	-28.4	319.6	0.27688
386.00	66.30	0.02753	-29.6	319.7	0.28461
379.00	67.22	0.02850	-30.3	320.4	0.29387
372.00	62.50	0.02942	-31.3	320.9	0.27840
365.00	57.89	0.03029	-31.9	321.7	0.26282
358.30	55.38	0.03110	-32.5	322.7	0.25611
352.00	54.11	0.03186	-33.3	323.3	0.25474
345.00	52.85	0.03269	-33.9	324.2	0.25384
338.00	52.01	0.03354	-34.9	324.8	0.25496
332.00	52.80	0.03428	-35.9	325.2	0.26354
325.00	53.50	0.03518	-36.7	326.0	0.27276
319.20	54.51	0.03596	-37.7	326.3	0.28296
313.00	52.01	0.03676	-38.7	326.8	0.27533
307.00	50.31	0.03753	-39.7	327.1	0.27153
301.20	49.16	0.03827	-40.9	327.3	0.27043
295.00	49.26	0.03908	-42.1	327.5	0.27669
289.00	47.90	0.03986	-42.8	328.4	0.27462
283.30	45.84	0.04058	-43.6	329.1	0.26813
275.50	44.00	0.04155	-44.4	330.6	0.26466
272.20	42.61	0.04195	-45.4	330.4	0.25936
267.00	41.30	0.04258	-46.3	330.8	0.25630
261.40	40.04	0.04325	-47.3	331.3	0.25378
256.00	38.86	0.04389	-48.7	331.3	0.25154
250.50	37.62	0.04454	-49.7	331.8	0.24887
245.00	36.71	0.04518	-51.0	332.1	0.24825
240.00	35.50	0.04576	-52.1	332.4	0.24509

Table 19 (continued)

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
234.00	33.54	0.04643	-53.2	333.1	0.23752
229.00	31.35	0.04696	-54.4	333.4	0.22683
224.00	30.14	0.04749	-55.8	333.3	0.22293
219.20	27.52	0.04796	-56.6	334.1	0.20805
214.00	28.49	0.04850	-57.7	334.8	0.22057
209.40	31.58	0.04904	-58.3	335.8	0.24987
204.00	32.90	0.04972	-59.4	336.6	0.26724
200.00	33.37	0.05024	-60.3	337.1	0.27648
196.00	32.95	0.05077	-61.0	337.9	0.27858
191.80	31.66	0.05131	-62.2	338.1	0.27351
187.00	29.17	0.05189	-63.2	338.9	0.25850
182.50	28.78	0.05245	-64.0	340.0	0.26133
178.00	28.87	0.05302	-65.1	340.7	0.26877
174.00	30.27	0.05356	-65.3	342.5	0.28826
169.00	28.00	0.05420	-64.8	346.3	0.27448
165.00	29.49	0.05476	-63.5	350.8	0.29616
161.00	31.30	0.05537	-63.8	352.9	0.32209
157.00	32.65	0.05602	-64.3	354.5	0.34457
153.00	34.58	0.05672	-65.1	355.8	0.37445
149.00	36.54	0.05749	-65.6	357.6	0.40634
145.00	37.51	0.05829	-65.6	360.3	0.42866
141.00	41.53	0.05921	-65.6	363.2	0.48809
137.00	44.93	0.06023	-64.0	369.1	0.54341
133.60	47.87	0.06118	-62.0	375.3	0.59376
130.00	46.08	0.06217	-62.0	378.2	0.58728
126.50	46.95	0.06319	-62.2	380.8	0.61500
123.00	41.77	0.06411	-62.7	382.9	0.56269
120.00	43.26	0.06495	-63.2	384.7	0.59738
117.00	46.84	0.06589	-63.8	386.6	0.66338
113.60	48.34	0.06702	-64.5	388.4	0.70511
110.00	51.67	0.06833	-64.5	392.0	0.77832
106.80	55.58	0.06963	-63.5	397.2	0.86238
103.50	57.38	0.07105	-63.0	401.8	0.91858
100.50	61.32	0.07247	-63.5	404.2	1.01109
97.90	71.44	0.07395	-64.0	406.2	1.20915
94.80	67.76	0.07567	-64.5	409.0	1.18439
92.00	58.63	0.07706	-65.1	411.4	1.05592
88.90	67.75	0.07889	-65.1	415.5	1.26279
86.00	80.92	0.08101	-65.1	419.4	1.55917
83.40	90.25	0.08320	-65.1	423.1	1.79305
80.80	80.30	0.08521	-64.5	428.1	1.64684
78.50	71.55	0.08684	-64.8	431.1	1.51024
75.60	62.57	0.08870	-65.1	435.2	1.37136
73.10	70.39	0.09057	-64.0	441.6	1.59547
70.60	78.87	0.09273	-63.2	447.7	1.85107
68.20	86.04	0.09508	-62.5	453.7	2.09045
65.90	97.68	0.09773	-61.3	460.8	2.45613
63.60	115.36	0.10096	-60.8	466.6	3.00541
61.40	121.66	0.10435	-60.3	472.3	3.28329
59.20	113.85	0.10763	-60.3	477.3	3.18666
57.20	109.90	0.11061	-60.8	480.9	3.18358
55.10	114.80	0.11400	-60.3	487.2	3.45226
53.00	123.83	0.11780	-59.2	495.3	3.87155
51.10	134.29	0.12167	-58.3	502.5	4.35450
49.30	155.26	0.12606	-57.4	509.7	5.21844

Table 19 (continued)

WASHINGTON,D.C. 12/6/69 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
47.40	164.88	0.13118	-56.8	517.0	5.76394
45.70	157.64	0.13573	-56.8	522.4	5.71560
44.00	157.64	0.14044	-57.0	527.6	5.93643
42.20	168.24	0.14599	-57.7	532.4	6.60591
40.60	185.32	0.15165	-58.3	536.7	7.56344
38.80	185.42	0.15829	-58.1	544.2	7.91879
37.30	186.84	0.16410	-57.9	550.9	8.30015
35.70	185.46	0.17052	-57.7	558.4	8.60800
34.20	180.39	0.17664	-57.4	565.9	8.74003
32.60	176.24	0.18330	-57.0	574.8	8.95781
30.90	177.03	0.19079	-56.8	584.2	9.49333
29.30	166.88	0.19780	-57.4	591.4	9.43738
27.80	154.98	0.20423	-58.3	598.0	9.23742
26.20	141.31	0.21084	-57.7	610.0	8.93693
24.80	133.71	0.21664	-57.0	621.5	8.93409
23.30	137.63	0.22342	-56.4	634.5	9.78752
22.00	141.40	0.22983	-56.0	646.3	10.65036
20.80	140.44	0.23605	-55.4	658.5	11.18776
19.70	140.89	0.24209	-54.8	670.7	11.85051
18.90	138.78	0.24663	-55.0	678.1	12.16753
18.10	132.70	0.25116	-55.6	684.6	12.14795
17.20	126.01	0.25624	-55.8	694.0	12.13993
16.50	119.68	0.26016	-55.8	702.3	12.01898
15.75	112.52	0.26430	-55.8	711.7	11.83780
15.04	106.14	0.26816	-55.8	721.1	11.69405
14.40	100.06	0.27160	-55.0	732.8	11.51350
13.80	95.75	0.27482	-54.0	745.2	11.49736
13.30	93.98	0.27755	-53.6	754.4	11.70847
12.76	92.56	0.28058	-53.4	764.0	12.02023
12.30	91.18	0.28323	-53.4	772.1	12.28285
11.85	92.96	0.28596	-52.3	784.4	12.99839
11.40	93.40	0.28882	-51.3	796.4	13.57622
11.13	91.35	0.29055	-50.6	804.5	13.60065
10.80	90.63	0.29270	-50.3	812.8	13.90506
10.58	88.63	0.29414	-50.1	818.2	13.88057
10.30	82.87	0.29589	-49.9	825.2	13.33173
10.12	77.89	0.29698	-49.7	830.0	12.75388
9.90	78.49	0.29834	-49.9	834.6	13.13744
9.75	77.28	0.29927	-50.1	837.6	13.13324
9.60	75.05	0.30019	-49.9	841.9	12.95474
9.47	73.95	0.30099	-49.9	845.2	12.94015
9.35	71.66	0.30171	-49.7	849.0	12.69934
9.25	69.79	0.30230	-49.4	852.9	12.50239
9.17	71.70	0.30279	-49.2	855.7	12.95677
9.10	71.95	0.30323	-49.0	858.3	13.10046
9.05	71.15	0.30354	-48.7	860.9	13.02635
9.02	67.68	0.30372	-48.7	861.8	12.43313
8.98	68.16	0.30395	-48.7	862.8	12.57733
8.97	72.51	0.30402	-49.0	861.8	13.39386

Table 20

WASHINGTON,D.C. 1/14/70 1540Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.70	-5.7	-13.2	1.18652	266.0		
1002.00	-5.6	-13.2	1.20633	267.4	0.02038802	0.02038802
982.00	-5.4	-11.9	1.38796	269.1	0.02647234	0.04686035
962.00	-5.4	-12.4	1.36039	270.7	0.02804439	0.07490475
941.00	-5.3	-12.8	1.33627	272.5	0.02889276	0.10379750
925.00	-5.3	-15.3	1.08318	273.9	0.01975056	0.12354806
905.00	-5.7	-13.7	1.28515	275.2	0.02416655	0.14771461
891.00	-7.0	-12.4	1.46905	275.1	0.01967283	0.16738744
878.00	-7.6	-12.8	1.43237	275.6	0.01924411	0.18663156
864.00	-7.9	-12.4	1.51507	276.6	0.02105314	0.20768470
849.00	-8.0	-12.4	1.54190	277.8	0.02339522	0.23107992
835.00	-8.3	-12.4	1.56782	278.9	0.02221233	0.25329225
820.00	-8.8	-12.4	1.59658	279.8	0.02421733	0.27750958
807.00	-9.1	-35.9	0.15554	280.8	0.01162116	0.28913074
794.00	-9.4	-36.7	0.14529	281.7	0.00199532	0.29112606
781.50	-10.0	-37.4	0.13596	282.4	0.00179371	0.29291978
769.00	-10.6	-34.8	0.18439	283.0	0.00204305	0.29496282
756.00	-11.2	-35.3	0.17791	283.7	0.00240303	0.29736585
743.00	-11.7	-36.5	0.15789	284.6	0.00222723	0.29959308
731.60	-12.2	-31.8	0.26622	285.3	0.00246671	0.30205980
719.00	-12.9	-32.0	0.26562	286.0	0.00341896	0.30547876
705.00	-13.4	-31.8	0.27626	287.1	0.00387063	0.30934939
692.00	-13.9	-19.2	1.00148	288.0	0.00847484	0.31782423
680.50	-14.8	-17.5	1.19649	288.4	0.01289624	0.33072047
669.00	-15.8	-17.9	1.17752	288.7	0.01392910	0.34464957
657.50	-16.4	-18.9	1.08776	289.4	0.01329118	0.35794075
645.00	-16.5	-18.5	1.14472	290.9	0.01423779	0.37217854
633.00	-16.7	-19.2	1.09499	292.3	0.01371253	0.38589107
621.00	-16.8	-20.2	1.01807	293.8	0.01293712	0.39882819
609.00	-17.0	-22.5	0.82447	295.1	0.01128089	0.41010908
598.40	-18.0	-25.4	0.62956	295.4	0.00786363	0.41797271
589.00	-18.9	-25.9	0.60896	295.7	0.00593983	0.42391254
578.00	-19.9	-24.9	0.68523	296.1	0.00726330	0.43117585
565.50	-21.7	-23.6	0.79701	295.9	0.00945307	0.44062891
558.00	-22.4	-23.4	0.82952	296.3	0.00622400	0.44685291
549.00	-23.2	-25.4	0.68627	296.6	0.00696027	0.45381318
540.00	-24.1	-25.9	0.66428	297.0	0.00620149	0.46001467
532.00	-24.8	-27.1	0.59857	297.4	0.00515449	0.46516916
523.00	-25.4	-32.9	0.33173	298.1	0.00427181	0.46944097
516.00	-25.8	-37.4	0.20594	298.8	0.00192026	0.47136122
508.00	-26.5	-38.9	0.17846	299.4	0.00156898	0.47293020
498.30	-27.1	-38.5	0.19067	300.2	0.00182683	0.47475704
491.00	-27.6	-36.5	0.23895	300.8	0.00160012	0.47635715
483.00	-28.4	-37.4	0.22001	301.3	0.00187332	0.47823047
475.00	-29.2	-35.6	0.27354	301.7	0.00201450	0.48024498
467.00	-30.2	-37.0	0.23901	302.1	0.00209206	0.48233703
459.00	-31.2	-38.2	0.21365	302.2	0.00184761	0.48418464
451.80	-32.2	-38.6	0.20703	302.4	0.00154534	0.48572998
444.00	-33.0	-38.3	0.21740	302.9	0.00168904	0.48741902
436.80	-34.0	-38.5	0.21753	303.1	0.00159768	0.48901670
429.00	-35.1	-40.2	0.18155	303.2	0.00158814	0.49060484
421.70	-35.7	-40.7	0.17410	304.0	0.00132461	0.49192945
414.00	-36.7	-41.1	0.16976	304.3	0.00135091	0.49328035
407.00	-37.5	-42.4	0.14983	304.6	0.00114140	0.49442175
400.00	-38.3	-43.2	0.13844	305.2	0.00102954	0.49545129

Table 20 (continued)

WASHINGTON,D.C. 1/14/70 1540Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
392.50	-39.3	-42.0	0.16204	305.5	0.00114979	0.49660108
385.00	-40.0	-42.1	0.16289	306.2	0.00124332	0.49784440
378.00	-41.0	-42.7	0.15475	306.6	0.00113442	0.49897881
371.00	-41.6	-44.1	0.13407	307.4	0.00103151	0.50001032
364.00	-42.7	-44.7	0.12796	307.7	0.00093581	0.50094613
357.00	-43.8	-45.4	0.11920	307.9	0.00088271	0.50182884
350.40	-44.8	-46.2	0.11116	308.2	0.00077571	0.50260455
344.00	-45.6	-46.4	0.11044	308.7	0.00072360	0.50332815
337.20	-46.4	-49.6	0.07598	309.3	0.00064677	0.50397492
330.00	-47.3	-51.4	0.06200	310.1	0.00050687	0.50448179
324.00	-47.8	-52.1	0.05785	311.0	0.00036689	0.50484868
317.50	-48.7	-53.2	0.05133	311.6	0.00036210	0.50521078
311.20	-49.2	-54.8	0.04291	312.6	0.00030293	0.50551370
305.00	-49.8	-56.3	0.03605	313.6	0.00024977	0.50576347
298.50	-50.5	-57.7	0.03046	314.5	0.00022056	0.50598403
293.00	-51.0	-59.1	0.02574	315.4	0.00015769	0.50614172
287.00	-51.6	-60.5	0.02185	316.5	0.00014569	0.50628741
281.00	-52.4	-61.6	0.01914	317.3	0.00012550	0.50641291
275.00	-53.2	-62.3	0.01778	318.1	0.00011301	0.50652592
269.00	-53.0	-62.7	0.01733	320.4	0.00010746	0.50663338
263.50	-52.8	-63.1	0.01671	322.6	0.00009551	0.50672889
258.00	-52.6	-63.8	0.01552	324.9	0.00009043	0.50681931
252.50	-52.4	-64.6	0.01401	327.1	0.00008286	0.50690217
247.00	-52.2	-67.2	0.00988	329.5	0.00006703	0.50696921
241.40	-51.8	-72.6	0.00452	332.2	0.00004115	0.50701036
236.00	-51.6	-73.4	0.00414	334.7	0.00002386	0.50703422
230.50	-51.4	-73.9	0.00390	337.2	0.00002255	0.50705677
225.00	-50.9	-73.8	0.00408	340.4	0.00002239	0.50707916
219.50	-49.6	-74.3	0.00385	344.8	0.00002224	0.50710141
214.00	-48.9	-74.9	0.00359	348.5	0.00002087	0.50712227
209.00	-48.9	-75.7	0.00327	350.8	0.00001749	0.50713977
204.00	-48.7	-76.2	0.00307	353.5	0.00001617	0.50715594
199.00	-48.5	-76.6	0.00295	356.3	0.00001535	0.50717129
194.00	-48.1	-76.9	0.00289	359.5	0.00001489	0.50718618
189.60	-48.1	-77.4	0.00274	361.9	0.00001263	0.50719881
185.00	-48.3	-77.6	0.00271	364.1	0.00001278	0.50721160
180.00	-49.0	-77.8	0.00269	365.8	0.00001378	0.50722538
175.00	-49.4	-78.2	0.00262	368.2	0.00001354	0.50723892
171.00	-49.9	-78.5	0.00256	369.7	0.00001055	0.50724947
167.00	-50.7	-78.8	0.00247	371.0	0.00001025	0.50725973
162.60	-51.2	-79.0	0.00245	372.9	0.00001104	0.50727076
158.00	-52.0	-79.1	0.00249	374.7	0.00001159	0.50728235
154.00	-53.2	-79.3	0.00249	375.5	0.00001017	0.50729252
150.00	-54.0	-79.6	0.00241	376.9	0.00001001	0.50730253
146.10	-54.4	-79.8	0.00242	379.1	0.00000961	0.50731214
142.00	-54.4	-79.8	0.00249	382.2	0.00001026	0.50732240
138.60	-54.4	-79.8	0.00255	384.8	0.00000873	0.50733113
135.00	-54.6	-79.8	0.00262	387.4	0.00000948	0.50734062
131.70	-54.8	-79.8	0.00268	389.7	0.00000892	0.50734953
128.00	-54.8	-79.7	0.00279	392.9	0.00001033	0.50735987
125.20	-55.0	-79.8	0.00279	395.0	0.00000797	0.50736784
122.00	-55.2	-80.3	0.00266	397.6	0.00000889	0.50737673
118.60	-55.2	-80.7	0.00257	400.8	0.00000907	0.50738580
115.00	-55.2	-80.7	0.00262	404.4	0.00000953	0.50739532
111.60	-55.2	-80.8	0.00266	407.8	0.00000916	0.50740449

Table 20 (continued)

WASHINGTON,D.C. 1/14/70 1540Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
108.00	-56.2	-81.0	0.00265	409.7	0.00000976	0.50741425
105.00	-57.3	-81.2	0.00266	410.9	0.00000813	0.50742237
102.00	-57.3	-81.3	0.00270	414.4	0.00000820	0.50743058
98.80	-57.3	-81.3	0.00279	418.1	0.00000897	0.50743954
95.80	-58.0	-81.3	0.00288	420.5	0.00000867	0.50744821
93.10	-59.4	-81.5	0.00285	421.3	0.00000789	0.50745610
90.00	-59.6	-82.0	0.00273	424.9	0.00000882	0.50746492
87.50	-59.4	-82.1	0.00273	428.8	0.00000696	0.50747188
84.90	-58.9	-82.3	0.00274	433.5	0.00000726	0.50747914
82.30	-58.4	-82.6	0.00268	438.3	0.00000720	0.50748634
79.50	-57.8	-82.8	0.00270	444.0	0.00000769	0.50749403
77.00	-57.3	-82.8	0.00275	449.0	0.00000696	0.50750099
74.50	-57.1	-83.0	0.00277	453.7	0.00000705	0.50750804
72.20	-56.7	-83.2	0.00278	458.7	0.00000651	0.50751456
69.80	-56.5	-83.5	0.00272	463.6	0.00000674	0.50752130
67.50	-56.5	-83.8	0.00266	468.1	0.00000632	0.50752762
65.00	-56.5	-84.4	0.00250	473.2	0.00000659	0.50753421
63.00	-57.1	-84.5	0.00255	476.0	0.00000515	0.50753936
60.90	-57.5	-84.5	0.00263	479.6	0.00000555	0.50754491
58.70	-58.0	-84.5	0.00273	483.7	0.00000602	0.50755093
56.60	-58.7	-84.4	0.00287	487.2	0.00000601	0.50755694
54.50	-59.1	-84.6	0.00286	491.5	0.00000614	0.50756308
52.60	-59.4	-85.1	0.00271	495.9	0.00000540	0.50756848
50.70	-59.1	-85.3	0.00273	501.7	0.00000528	0.50757376
48.80	-58.9	-85.3	0.00284	507.8	0.00000540	0.50757915
47.00	-58.2	-85.4	0.00290	514.9	0.00000527	0.50758442
45.00	-57.5	-85.7	0.00290	523.0	0.00000592	0.50759034
43.30	-57.5	-86.4	0.00266	528.7	0.00000482	0.50759516
41.50	-57.8	-86.5	0.00273	534.6	0.00000495	0.50760011
39.70	-58.0	-86.6	0.00277	540.9	0.00000505	0.50760515
38.00	-58.7	-86.9	0.00275	546.0	0.00000479	0.50760994
36.30	-58.7	-87.1	0.00279	553.1	0.00000481	0.50761475
34.70	-58.0	-87.6	0.00269	562.1	0.00000447	0.50761922
33.10	-57.5	-88.0	0.00259	570.9	0.00000431	0.50762352
31.50	-57.3	-88.3	0.00258	579.6	0.00000422	0.50762775
30.00	-56.7	-88.7	0.00253	589.6	0.00000391	0.50763166
28.40	-56.5	-89.2	0.00244	599.5	0.00000406	0.50763572
26.80	-56.2	-89.9	0.00227	610.1	0.00000385	0.50763957
25.40	-56.0	-91.0	0.00198	620.1	0.00000304	0.50764260
24.00	-55.8	-91.3	0.00197	630.9	0.00000282	0.50764542
22.60	-55.6	-91.5	0.00201	642.4	0.00000284	0.50764826
21.40	-55.4	-91.8	0.00203	653.1	0.00000247	0.50765073
20.30	-55.2	-92.1	0.00201	663.7	0.00000227	0.50765300
19.20	-55.0	-92.4	0.00199	675.0	0.00000225	0.50765524
18.30	-54.8	-92.8	0.00196	685.0	0.00000181	0.50765706
17.45	-54.6	-93.0	0.00196	695.0	0.00000170	0.50765876
16.60	-53.6	-93.2	0.00202	708.2	0.00000173	0.50766048
15.97	-52.8	-93.4	0.00200	718.7	0.00000129	0.50766177
15.28	-52.2	-93.6	0.00200	729.7	0.00000141	0.50766318
14.55	-51.6	-93.9	0.00200	741.9	0.00000149	0.50766467
13.90	-51.2	-94.3	0.00195	753.0	0.00000131	0.50766598
13.35	-51.4	-94.4	0.00198	761.0	0.00000110	0.50766708
12.80	-51.2	-94.7	0.00196	770.9	0.00000111	0.50766819
12.30	-50.7	-94.8	0.00199	781.7	0.00000101	0.50766920
11.80	-49.9	-94.9	0.00203	793.6	0.00000103	0.50767023

Table 20 (continued)

WASHINGTON,D.C. 1/14/70 1540Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
11.38	-49.9	-95.2	0.00200	801.9	0.00000086	0.50767109
10.90	-49.9	-95.7	0.00188	811.8	0.00000095	0.50767204
10.50	-49.8	-95.9	0.00190	821.2	0.00000077	0.50767281
10.08	-49.6	-95.7	0.00203	831.5	0.00000084	0.50767365
9.80	-49.6	-95.5	0.00220	838.3	0.00000060	0.50767425

Table 21

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1018.70					
1002.00	1.40	0.00002	-5.6	267.4	0.00232
982.00	2.58	0.00006	-5.4	269.1	0.00435
962.00	2.57	0.00010	-5.4	270.7	0.00442
941.00	-4.92	0.00002	-5.3	272.5	-0.00866
905.00	7.61	0.00025	-5.7	275.2	0.01393
891.00	16.25	0.00045	-7.0	275.1	0.03023
878.00	22.96	0.00072	-7.6	275.6	0.04333
864.00	22.96	0.00101	-7.9	276.6	0.04403
849.00	23.11	0.00133	-8.0	277.8	0.04511
835.00	24.05	0.00164	-8.3	278.9	0.04772
820.00	25.04	0.00200	-8.8	279.8	0.05061
807.00	27.13	0.00234	-9.1	280.8	0.05571
794.00	27.13	0.00269	-9.4	281.7	0.05663
781.50	27.04	0.00303	-10.0	282.4	0.05732
769.00	26.42	0.00337	-10.6	283.0	0.05692
756.00	26.42	0.00372	-11.2	283.7	0.05790
743.00	25.89	0.00408	-11.7	284.6	0.05775
731.60	25.39	0.00439	-12.2	285.3	0.05750
719.00	25.28	0.00473	-12.9	286.0	0.05826
705.00	24.82	0.00512	-13.4	287.1	0.05833
692.00	24.73	0.00548	-13.9	288.0	0.05923
680.50	24.73	0.00581	-14.8	288.4	0.06023
669.00	24.29	0.00614	-15.8	288.7	0.06016
657.50	24.21	0.00647	-16.4	289.4	0.06101
645.00	24.27	0.00684	-16.5	290.9	0.06236
633.00	25.20	0.00721	-16.7	292.3	0.06596
621.00	26.79	0.00761	-16.8	293.8	0.07149
609.00	26.18	0.00802	-17.0	295.1	0.07122
598.40	22.72	0.00833	-18.0	295.4	0.06291
589.00	21.03	0.00860	-18.9	295.7	0.05915
578.00	20.02	0.00889	-19.9	296.1	0.05740
566.00	19.52	0.00922	-21.1	296.6	0.05714
555.00	19.45	0.00952	-22.1	297.1	0.05806
545.00	18.94	0.00979	-23.2	297.2	0.05760
534.00	18.51	0.01009	-24.4	297.6	0.05745
523.40	18.51	0.01038	-25.4	298.1	0.05861
513.00	18.01	0.01067	-26.1	299.0	0.05818
504.00	18.51	0.01093	-26.7	299.7	0.06087
492.50	19.93	0.01129	-27.4	300.9	0.06706
482.00	19.43	0.01162	-28.2	301.8	0.06681
472.00	18.42	0.01192	-29.0	302.6	0.06467
462.20	17.91	0.01222	-29.8	303.4	0.06421
453.00	17.41	0.01250	-31.1	303.5	0.06368
443.00	16.01	0.01278	-32.2	304.1	0.05989
434.00	15.46	0.01303	-33.4	304.3	0.05903
424.00	14.37	0.01329	-34.7	304.7	0.05616
415.00	13.82	0.01353	-36.1	304.8	0.05518
406.00	13.82	0.01377	-36.9	305.6	0.05640
398.00	13.87	0.01399	-38.0	306.0	0.05776
388.50	12.79	0.01423	-39.0	306.8	0.05456
380.00	11.70	0.01443	-40.2	307.2	0.05102
371.50	10.56	0.01462	-41.4	307.5	0.04709
363.00	10.06	0.01481	-42.7	307.9	0.04591
355.00	10.10	0.01498	-43.9	308.1	0.04713
347.00	9.09	0.01515	-45.2	308.4	0.04341

Table 21 (continued)

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
338.60	11.54	0.01537	-46.6	308.7	0.05648
331.00	11.04	0.01557	-48.0	308.8	0.05528
323.80	10.50	0.01575	-49.0	309.3	0.05371
316.00	9.49	0.01593	-49.9	310.2	0.04979
308.00	8.95	0.01612	-51.0	311.0	0.04817
301.00	9.45	0.01629	-51.8	311.9	0.05202
294.00	11.43	0.01650	-52.8	312.7	0.06440
287.00	11.56	0.01672	-53.2	314.3	0.06673
280.00	13.16	0.01698	-53.6	315.9	0.07789
273.00	17.16	0.01732	-54.0	317.6	0.10415
266.50	21.53	0.01773	-54.4	319.2	0.13386
260.00	24.23	0.01820	-54.4	321.5	0.15445
253.50	27.69	0.01875	-54.2	324.1	0.18101
247.00	31.36	0.01940	-54.0	326.9	0.21039
240.20	39.65	0.02027	-54.0	329.5	0.27352
234.00	48.14	0.02127	-53.2	333.2	0.34088
228.50	56.98	0.02234	-52.6	336.3	0.41323
223.00	58.27	0.02346	-51.6	340.1	0.43301
218.00	57.71	0.02449	-51.0	343.2	0.43868
213.00	54.24	0.02548	-50.9	345.8	0.42198
208.00	53.09	0.02648	-50.9	348.2	0.42291
203.00	53.20	0.02750	-50.9	350.6	0.43424
198.20	58.07	0.02860	-50.9	353.0	0.48549
194.00	68.09	0.02975	-49.9	356.6	0.58158
189.30	74.33	0.03119	-49.0	360.6	0.65066
185.00	72.57	0.03251	-48.5	363.8	0.65002
181.00	64.69	0.03362	-48.5	366.1	0.59225
177.00	49.29	0.03449	-48.9	367.9	0.46146
172.60	38.39	0.03525	-49.2	369.9	0.36851
168.00	39.37	0.03609	-49.8	371.9	0.38827
164.20	46.17	0.03693	-50.5	373.1	0.46593
160.00	51.06	0.03797	-51.0	374.9	0.52875
156.20	46.05	0.03885	-51.6	376.6	0.48854
152.30	37.21	0.03959	-52.0	378.6	0.40487
149.00	41.09	0.04030	-53.6	378.3	0.45697
146.00	45.81	0.04104	-54.4	379.1	0.51988
141.90	38.96	0.04191	-55.2	380.8	0.45500
138.00	40.77	0.04281	-55.2	383.8	0.48954
134.80	32.49	0.04341	-55.2	386.4	0.39942
132.00	37.72	0.04404	-55.2	388.7	0.47346
128.30	35.77	0.04484	-55.2	391.9	0.46191
125.00	36.25	0.04559	-55.2	394.8	0.48050
122.00	38.18	0.04632	-55.4	397.2	0.51852
119.00	35.14	0.04701	-55.6	399.7	0.48935
116.00	31.37	0.04764	-55.8	402.2	0.44816
113.00	29.69	0.04825	-56.0	404.8	0.43532
110.40	45.43	0.04909	-56.0	407.5	0.68181
108.00	66.02	0.05024	-56.5	409.3	1.01298
105.40	78.26	0.05174	-56.9	411.3	1.23039
102.50	115.70	0.05429	-57.1	414.2	1.87032
100.10	102.89	0.05621	-57.5	416.2	1.70325
97.80	91.40	0.05789	-58.4	417.2	1.54852
95.30	86.32	0.05966	-59.4	418.5	1.50093
92.80	45.85	0.06062	-59.6	421.2	0.81873
90.30	77.80	0.06230	-59.4	425.0	1.42763

Table 21 (continued)

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
88.00	107.70	0.06449	-59.4	428.1	2.02795
85.80	90.52	0.06630	-59.1	431.7	1.74812
83.60	84.71	0.06804	-58.7	435.8	1.67901
81.30	89.71	0.07001	-58.0	440.7	1.82836
79.10	94.43	0.07206	-57.8	444.7	1.97822
77.50	98.83	0.07365	-57.5	447.7	2.11306
75.70	104.43	0.07559	-57.3	451.2	2.28591
73.80	110.86	0.07782	-57.3	454.5	2.48919
72.00	108.27	0.07993	-57.3	457.7	2.49166
70.20	115.73	0.08224	-57.5	460.6	2.73164
68.40	119.61	0.08469	-57.1	464.9	2.89749
66.70	107.65	0.08683	-56.0	470.6	2.67440
65.10	113.83	0.08901	-55.6	474.8	2.89731
63.40	123.28	0.09159	-55.4	478.9	3.22189
61.80	144.60	0.09451	-55.8	481.5	3.87714
60.40	181.99	0.09780	-56.5	483.2	4.99281
58.80	181.45	0.10165	-56.9	486.0	5.11338
57.30	157.71	0.10487	-57.3	488.6	4.56069
55.90	167.98	0.10815	-57.8	491.0	4.97943
54.40	168.86	0.11177	-57.8	494.8	5.14344
53.00	163.61	0.11514	-58.0	498.0	5.11518
51.60	168.40	0.11870	-58.2	501.3	5.40767
50.20	173.98	0.12248	-58.7	504.2	5.74282
49.10	179.66	0.12562	-59.1	506.3	6.06316
47.90	188.65	0.12931	-59.6	508.8	6.52590
46.70	193.76	0.13319	-59.1	513.6	6.87512
45.50	197.14	0.13724	-58.7	518.6	7.17934
44.40	196.06	0.14103	-58.0	523.9	7.31683
43.30	179.95	0.14459	-57.1	529.8	6.88648
42.20	170.78	0.14806	-56.5	535.3	6.70582
41.10	176.88	0.15175	-55.8	541.0	7.13114
40.20	186.84	0.15502	-55.6	544.9	7.70151
39.10	192.14	0.15923	-55.6	549.3	8.14244
38.15	196.48	0.16304	-55.4	553.7	8.53409
37.20	201.25	0.16705	-55.2	558.2	8.96416
36.25	205.27	0.17124	-55.8	560.7	9.38292
35.40	202.98	0.17504	-56.9	561.8	9.50094
34.45	197.14	0.17928	-57.8	563.8	9.48226
33.60	191.80	0.18306	-57.8	567.9	9.45865
32.80	187.44	0.18663	-57.8	571.8	9.46934
32.00	189.07	0.19031	-57.1	577.6	9.79012
31.10	189.58	0.19458	-56.7	583.5	10.10057
30.40	189.47	0.19799	-56.5	587.9	10.32736
29.80	191.26	0.20100	-56.0	592.5	10.63504
28.90	188.70	0.20557	-55.8	598.3	10.81920
28.16	181.43	0.20928	-55.4	603.9	10.67594
27.50	176.26	0.21258	-55.2	608.6	10.62025
26.83	173.66	0.21597	-55.2	612.9	10.72503
26.20	170.72	0.21917	-55.4	616.4	10.79676
25.50	168.25	0.22277	-56.5	618.2	10.93308
24.80	164.82	0.22639	-56.9	621.9	11.01269
24.20	161.00	0.22950	-56.0	628.8	11.02397
23.60	156.74	0.23261	-55.6	634.5	11.00530
23.00	152.92	0.23572	-55.2	640.4	11.01663
22.40	149.91	0.23885	-54.6	647.1	11.08957

Table 21 (continued)

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
21.88	147.04	0.24157	-54.8	650.9	11.13588
21.30	147.01	0.24469	-55.0	655.3	11.43645
20.80	146.16	0.24743	-55.0	659.7	11.64337
20.20	144.88	0.25078	-55.0	665.3	11.88421
19.65	142.79	0.25389	-54.8	671.2	12.04081
19.10	139.41	0.25702	-54.6	677.3	12.09418
18.58	136.48	0.25999	-54.4	683.3	12.17182
18.10	132.61	0.26273	-54.4	688.4	12.13985
17.65	129.66	0.26531	-54.2	694.0	12.17261
17.20	125.07	0.26786	-54.0	699.8	12.04928
16.70	121.38	0.27069	-53.8	706.4	12.04333
16.20	118.92	0.27354	-53.8	712.5	12.16350
15.84	115.13	0.27559	-53.8	717.1	12.04332
15.40	111.34	0.27806	-53.8	722.9	11.97946
15.00	106.95	0.28028	-53.8	728.4	11.81454
14.60	103.54	0.28249	-53.6	734.7	11.75158
14.20	100.44	0.28470	-52.8	743.2	11.72071
13.80	96.92	0.28688	-51.8	752.6	11.63715
13.44	93.43	0.28883	-51.0	760.9	11.51840
13.10	93.66	0.29073	-50.7	767.8	11.84708
12.73	91.90	0.29281	-49.8	777.3	11.96207
12.40	89.58	0.29466	-49.6	783.8	11.97036
12.05	87.69	0.29665	-49.4	790.8	12.05772
11.70	84.33	0.29861	-49.0	798.8	11.94360
11.40	80.71	0.30026	-48.9	805.4	11.73062
11.10	77.62	0.30190	-48.3	813.5	11.58683
10.78	74.89	0.30363	-48.5	819.7	11.51158
10.45	77.01	0.30552	-49.6	823.0	12.21154
10.15	70.22	0.30713	-50.9	825.1	11.46407
9.90	69.00	0.30849	-49.8	835.2	11.54919
9.60	65.35	0.31008	-48.3	847.9	11.28011
9.40	61.66	0.31111	-48.7	851.7	10.86910
9.25	59.98	0.31187	-49.0	854.3	10.74406
9.10	58.59	0.31262	-49.0	858.3	10.66828
9.00	57.82	0.31313	-48.9	861.7	10.64564
8.90	57.36	0.31363	-48.1	867.1	10.67883
8.87	57.36	0.31379	-47.8	869.3	10.71495
8.80	55.22	0.31413	-48.0	870.6	10.39768

Table 21 (continued)

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
573.00					
565.50	21.70	0.00023	-21.7	295.9	0.06358
558.00	20.48	0.00044	-22.4	296.3	0.06082
549.00	20.10	0.00070	-23.2	296.6	0.06065
540.00	20.08	0.00096	-24.1	297.0	0.06163
532.00	19.24	0.00119	-24.8	297.4	0.05993
523.00	18.77	0.00144	-25.4	298.1	0.05947
516.00	18.36	0.00164	-25.8	298.8	0.05896
508.00	17.95	0.00186	-26.5	299.4	0.05853
498.30	17.48	0.00212	-27.1	300.2	0.05812
491.00	17.53	0.00233	-27.6	300.8	0.05916
483.00	17.07	0.00255	-28.4	301.3	0.05857
475.00	17.14	0.00278	-29.2	301.7	0.05980
467.00	16.68	0.00300	-30.2	302.1	0.05919
459.00	15.86	0.00322	-31.2	302.2	0.05727
451.80	15.43	0.00341	-32.2	302.4	0.05659
444.00	14.94	0.00361	-33.0	302.9	0.05574
436.80	14.44	0.00380	-34.0	303.1	0.05479
429.00	14.44	0.00401	-35.1	303.2	0.05579
421.70	13.96	0.00420	-35.7	304.0	0.05485
414.00	13.97	0.00440	-36.7	304.3	0.05590
407.00	13.46	0.00458	-37.5	304.6	0.05482
400.00	13.47	0.00476	-38.3	305.2	0.05581
392.50	13.47	0.00497	-39.3	305.5	0.05688
385.00	13.48	0.00517	-40.0	306.2	0.05802
378.00	13.49	0.00537	-41.0	306.6	0.05913
371.00	13.49	0.00557	-41.6	307.4	0.06024
364.00	12.99	0.00576	-42.7	307.7	0.05911
357.00	12.93	0.00596	-43.8	307.9	0.06000
350.40	13.43	0.00616	-44.8	308.2	0.06351
344.00	13.93	0.00636	-45.6	308.7	0.06710
337.20	15.44	0.00660	-46.4	309.3	0.07585
330.00	15.94	0.00687	-47.3	310.1	0.08003
324.00	16.77	0.00712	-47.8	311.0	0.08576
317.50	17.70	0.00740	-48.7	311.6	0.09235
311.20	19.55	0.00771	-49.2	312.6	0.10408
305.00	22.56	0.00807	-49.8	313.6	0.12254
298.50	23.83	0.00847	-50.5	314.5	0.13228
293.00	26.22	0.00886	-51.0	315.4	0.14827
287.00	28.07	0.00932	-51.6	316.5	0.16209
281.00	30.65	0.00983	-52.4	317.3	0.18074
275.00	32.37	0.01038	-53.2	318.1	0.19506
269.00	32.37	0.01094	-53.0	320.4	0.19941
263.50	33.77	0.01149	-52.8	322.6	0.21234
258.00	35.16	0.01208	-52.6	324.9	0.22581
252.50	44.62	0.01284	-52.4	327.1	0.29284
247.00	60.10	0.01388	-52.2	329.5	0.40320
241.40	75.97	0.01526	-51.8	332.2	0.52146
236.00	82.79	0.01674	-51.6	334.7	0.58126
230.50	80.46	0.01824	-51.4	337.2	0.57837
225.00	74.49	0.01966	-50.9	340.4	0.54861
219.50	68.75	0.02100	-49.6	344.8	0.51898
214.00	66.76	0.02234	-48.9	348.5	0.51690
209.00	67.38	0.02360	-48.9	350.8	0.53419
204.00	68.87	0.02491	-48.7	353.5	0.55938
199.00	77.44	0.02643	-48.5	356.3	0.64478

Table 21 (continued)

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
194.00	83.24	0.02810	-48.1	359.5	0.71096
189.60	69.46	0.02936	-48.1	361.9	0.60702
185.00	56.94	0.03046	-48.3	364.1	0.50996
180.00	56.46	0.03169	-49.0	365.8	0.51976
175.00	49.83	0.03279	-49.4	368.2	0.47181
171.00	52.53	0.03375	-49.9	369.7	0.50906
167.00	82.90	0.03530	-50.7	371.0	0.82256
162.60	95.41	0.03731	-51.2	372.9	0.97231
158.00	53.92	0.03854	-52.0	374.7	0.56549
154.00	46.04	0.03947	-53.2	375.5	0.49536
150.00	44.22	0.04039	-54.0	376.9	0.48843
146.10	50.14	0.04143	-54.4	379.1	0.56869
142.00	51.09	0.04258	-54.4	382.2	0.59613
138.60	52.03	0.04357	-54.4	384.8	0.62205
135.00	54.05	0.04470	-54.6	387.4	0.66343
131.70	57.81	0.04583	-54.8	389.7	0.72734
128.00	57.34	0.04712	-54.8	392.9	0.74228
125.20	54.22	0.04806	-55.0	395.0	0.71762
122.00	53.01	0.04915	-55.2	397.6	0.71995
118.60	52.53	0.05032	-55.2	400.8	0.73398
115.00	62.61	0.05184	-55.2	404.4	0.90213
111.60	79.82	0.05373	-55.2	407.8	1.18517
108.00	119.59	0.05683	-56.2	409.7	1.83489
105.00	147.07	0.06010	-57.3	410.9	2.32090
102.00	170.26	0.06400	-57.3	414.4	2.76590
98.80	83.04	0.06609	-57.3	418.1	1.39272
95.80	80.00	0.06804	-58.0	420.5	1.38378
93.00	96.06	0.07029	-59.4	421.4	1.71158
90.00	113.79	0.07323	-59.6	424.9	2.09498
87.50	122.70	0.07596	-59.4	428.8	2.32364
84.90	119.00	0.07879	-58.9	433.5	2.32248
82.30	118.66	0.08171	-58.4	438.3	2.38906
79.50	124.33	0.08511	-57.8	444.0	2.59147
77.00	131.30	0.08842	-57.3	449.0	2.82552
74.50	135.26	0.09194	-57.1	453.7	3.00834
72.20	138.84	0.09538	-56.7	458.7	3.18647
69.80	144.57	0.09924	-56.5	463.6	3.43196
67.50	145.90	0.10310	-56.5	468.1	3.58164
65.00	152.88	0.10766	-56.5	473.2	3.89722
63.00	174.30	0.11196	-57.1	476.0	4.58433
60.90	190.05	0.11704	-57.5	479.6	5.17088
58.70	220.77	0.12346	-58.0	483.7	6.23196
56.60	191.31	0.12896	-58.7	487.2	5.60072
54.50	192.73	0.13471	-59.1	491.5	5.85984
52.60	194.39	0.14016	-59.4	495.9	6.12372
50.70	203.99	0.14608	-59.1	501.7	6.66704
48.80	211.70	0.15247	-58.9	507.8	7.18820
47.00	218.88	0.15896	-58.2	514.9	7.71684
45.00	200.84	0.16586	-57.5	523.0	7.39525
43.30	188.32	0.17159	-57.5	528.7	7.20678
41.50	194.12	0.17809	-57.8	534.6	7.75079
39.70	206.31	0.18532	-58.0	540.9	8.61101
38.00	209.96	0.19257	-58.7	546.0	9.15529
36.30	206.63	0.20004	-58.7	553.1	9.43209
34.70	201.14	0.20720	-58.0	562.1	9.60494

Table 21 (continued)

WASHINGTON,D.C. 1/14/70 1540Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
33.10	197.76	0.21457	-57.5	570.9	9.89979
31.50	194.26	0.22217	-57.3	579.6	10.21865
30.00	188.47	0.22943	-56.7	589.6	10.40962
28.40	181.48	0.23728	-56.5	599.5	10.58818
26.80	172.17	0.24516	-56.2	610.1	10.64484
25.40	161.72	0.25201	-56.0	620.1	10.54992
24.00	150.36	0.25874	-55.8	630.9	10.38143
22.60	146.79	0.26571	-55.6	642.4	10.76217
21.40	140.60	0.27177	-55.4	653.1	10.88626
20.30	133.24	0.27732	-55.2	663.7	10.87585
19.20	127.97	0.28295	-55.0	675.0	11.04408
18.30	120.82	0.28753	-54.8	685.0	10.93995
17.45	114.37	0.29182	-54.6	695.0	10.86053
16.60	107.30	0.29605	-53.6	708.2	10.71069
15.97	104.12	0.29923	-52.8	718.7	10.80344
15.28	100.68	0.30274	-52.2	729.7	10.91835
14.55	97.90	0.30653	-51.6	741.9	11.14893
13.90	93.89	0.30992	-51.2	753.0	11.19222
13.35	92.20	0.31285	-51.4	761.0	11.44402
12.80	89.22	0.31582	-51.2	770.9	11.55015
12.30	84.30	0.31847	-50.7	781.7	11.35641
11.80	80.31	0.32110	-49.9	793.6	11.27772
11.38	77.45	0.32332	-49.9	801.9	11.27679
10.90	74.63	0.32586	-49.9	811.8	11.34569
10.50	72.01	0.32798	-49.8	821.2	11.36367
10.08	70.29	0.33025	-49.6	831.5	11.55418
9.80	67.45	0.33175	-49.6	838.3	11.40527
9.60	63.09	0.33278	-49.8	842.5	10.89019
9.42	60.28	0.33368	-49.6	847.8	10.60335
9.23	57.47	0.33460	-49.4	853.4	10.31651
9.12	56.06	0.33513	-49.2	857.0	10.18534
9.00	55.12	0.33571	-49.0	861.0	10.14847
8.93	55.28	0.33605	-48.9	863.6	10.25653
8.85	54.52	0.33644	-48.7	866.5	10.20742
8.82	53.75	0.33658	-48.1	869.4	10.09883
8.80	55.68	0.33668	-48.0	870.6	10.48440

Table 22

WASHINGTON,D.C. 2/13/70 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.00	0.2	-9.6	1.65074	272.0		
990.00	-0.9	-9.1	1.77415	273.1	0.04892699	0.04892699
970.00	-1.8	-8.6	1.89415	273.7	0.03743163	0.08635862
950.00	-2.9	-8.6	1.93415	274.3	0.03906429	0.12542291
934.00	-4.3	-9.1	1.88084	274.1	0.03114282	0.15656573
918.00	-5.3	-10.1	1.75344	274.5	0.02966763	0.18623336
900.00	-5.8	-10.1	1.78861	275.5	0.03252903	0.21876239
882.00	-7.6	-10.5	1.74918	275.3	0.03248987	0.25125225
865.00	-8.5	-10.5	1.78365	275.8	0.03064187	0.28189413
851.00	-9.0	-11.0	1.73884	276.6	0.02516066	0.30705479
836.00	-9.3	-12.4	1.56807	277.7	0.02530802	0.33236281
822.00	-10.3	-14.0	1.36906	278.0	0.02097955	0.35334236
808.00	-11.4	-15.2	1.24961	278.2	0.01870479	0.37204716
792.00	-12.7	-16.0	1.18899	278.4	0.01990693	0.39195409
778.50	-13.7	-17.4	1.05805	278.7	0.01547705	0.40743113
765.00	-14.8	-17.7	1.04244	278.9	0.01446764	0.42189878
752.00	-15.8	-17.4	1.09540	279.2	0.01417954	0.43607831
739.00	-16.6	-18.1	1.04522	279.8	0.01419798	0.45027629
725.80	-17.1	-18.4	1.03118	280.7	0.01398395	0.46426024
713.00	-17.2	-20.6	0.85031	281.9	0.01228733	0.47654757
703.00	-15.7	-48.1	0.04370	284.7	0.00456130	0.48110887
690.00	-14.2	-50.5	0.03314	287.9	0.00050965	0.48161852
678.60	-13.4	-51.6	0.02955	290.1	0.00036461	0.48198312
667.00	-12.9	-52.9	0.02561	292.1	0.00032644	0.48230957
656.00	-11.8	-54.7	0.02071	294.8	0.00025998	0.48256954
644.00	-10.8	-55.2	0.01965	297.5	0.00024711	0.48281666
633.00	-10.7	-54.0	0.02331	299.1	0.00024109	0.48305774
622.00	-10.7	-53.0	0.02689	300.6	0.00028173	0.48333947
611.00	-11.1	-48.0	0.05087	301.7	0.00043642	0.48377589
600.00	-11.9	-41.7	0.10960	302.3	0.00090059	0.48467648
589.40	-12.7	-33.3	0.28356	302.9	0.00212623	0.48680271
579.00	-13.3	-28.6	0.47348	303.7	0.00401691	0.49081961
567.70	-14.2	-27.7	0.52711	304.4	0.00576866	0.49658827
557.00	-14.9	-27.5	0.54937	305.2	0.00587668	0.50246495
546.50	-15.6	-27.3	0.57268	306.1	0.00601096	0.50847591
536.00	-15.9	-29.0	0.49006	307.4	0.00569323	0.51416914
525.50	-16.6	-29.0	0.49986	308.4	0.00530314	0.51947228
514.00	-17.9	-29.4	0.48995	308.7	0.00580753	0.52527980
504.00	-19.0	-30.8	0.43310	309.1	0.00470941	0.52998921
494.00	-20.2	-33.1	0.34460	309.5	0.00396785	0.53395706
484.00	-21.4	-35.4	0.27470	309.8	0.00315968	0.53711674
474.00	-22.7	-36.3	0.25370	310.1	0.00269593	0.53981267
466.00	-24.2	-35.9	0.27124	309.7	0.00214264	0.54195531
459.00	-24.7	-38.8	0.20017	310.4	0.00168363	0.54363893
452.00	-25.3	-41.6	0.14753	311.0	0.00124180	0.54488073
445.00	-26.0	-44.2	0.11004	311.4	0.00091991	0.54580064
438.00	-26.7	-46.5	0.08591	312.1	0.00069984	0.54650048
431.00	-27.3	-48.5	0.06804	312.7	0.00054984	0.54705032
424.00	-28.3	-50.3	0.05575	312.9	0.00044213	0.54749245
417.00	-29.2	-51.4	0.04914	313.2	0.00037463	0.54786708
410.00	-30.1	-51.5	0.04944	313.6	0.00035208	0.54821916
403.00	-31.2	-50.3	0.05866	313.8	0.00038607	0.54860523
396.00	-32.1	-49.9	0.06242	314.1	0.00043244	0.54903767
389.00	-33.3	-50.0	0.06284	314.2	0.00044737	0.54948505
382.00	-34.3	-49.9	0.06471	314.4	0.00045554	0.54994059

Table 22 (continued)

WASHINGTON,D.C. 2/13/70 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
375.00	-35.1	-50.2	0.06375	315.0	0.00045878	0.55039937
368.00	-36.4	-50.9	0.05946	315.1	0.00044001	0.55083938
361.00	-37.3	-51.3	0.05739	315.5	0.00041729	0.55125667
354.00	-38.3	-52.5	0.05088	316.0	0.00038667	0.55164334
347.00	-39.4	-53.1	0.04769	316.3	0.00035206	0.55199539
340.00	-40.4	-53.5	0.04619	316.7	0.00033531	0.55233071
333.00	-41.6	-53.8	0.04571	317.0	0.00032823	0.55265894
326.00	-42.6	-53.9	0.04621	317.5	0.00032830	0.55298724
319.00	-44.0	-54.1	0.04578	317.6	0.00032855	0.55331579
312.00	-45.6	-54.5	0.04446	317.5	0.00032228	0.55363807
304.50	-46.8	-55.4	0.04072	317.9	0.00032593	0.55396401
296.50	-48.5	-56.6	0.03561	318.0	0.00031155	0.55427556
289.00	-49.8	-57.7	0.03150	318.4	0.00025680	0.55453236
281.50	-51.4	-57.9	0.03171	318.5	0.00024187	0.55477423
274.00	-52.8	-57.1	0.03595	318.9	0.00025890	0.55503313
268.30	-54.3	-58.5	0.03077	318.7	0.00019402	0.55522715
263.00	-54.9	-60.0	0.02561	319.6	0.00015246	0.55537961
257.00	-55.3	-62.1	0.01968	321.2	0.00013866	0.55551827
252.00	-55.5	-63.4	0.01676	322.7	0.00009296	0.55561123
248.00	-55.7	-63.7	0.01624	323.9	0.00006735	0.55567858
243.00	-56.3	-64.2	0.01551	324.9	0.00008100	0.55575958
239.00	-56.5	-64.5	0.01504	326.1	0.00006235	0.55582193
235.00	-56.9	-64.7	0.01501	327.1	0.00006132	0.55588325
231.50	-57.1	-65.1	0.01439	328.2	0.00005250	0.55593575
228.00	-57.7	-65.4	0.01393	328.7	0.00005058	0.55598634
224.70	-59.0	-65.8	0.01336	328.1	0.00004595	0.55603228
221.00	-59.9	-66.1	0.01307	328.3	0.00004989	0.55608217
217.50	-60.1	-66.5	0.01254	329.4	0.00004574	0.55612792
214.00	-60.3	-66.9	0.01192	330.6	0.00004369	0.55617161
210.50	-60.6	-67.3	0.01156	331.8	0.00004193	0.55621354
207.00	-60.8	-67.9	0.01068	333.1	0.00003970	0.55625324
203.00	-60.8	-69.2	0.00906	334.9	0.00004027	0.55629352
198.50	-60.6	-70.6	0.00754	337.5	0.00003810	0.55633162
194.70	-60.3	-71.3	0.00689	339.7	0.00002797	0.55635959
191.00	-60.1	-71.4	0.00695	341.9	0.00002613	0.55638571
187.50	-60.8	-71.6	0.00680	342.6	0.00002456	0.55641028
184.00	-61.2	-72.3	0.00627	343.7	0.00002334	0.55643361
179.50	-61.7	-72.6	0.00610	345.4	0.00002840	0.55646201
175.00	-61.7	-76.0	0.00369	347.9	0.00002248	0.55648449
171.00	-61.5	-76.5	0.00353	350.6	0.00001473	0.55649922
167.00	-61.2	-77.0	0.00330	353.4	0.00001395	0.55651317
163.00	-61.0	-77.7	0.00306	356.2	0.00001298	0.55652615
159.00	-60.8	-78.2	0.00289	359.2	0.00001213	0.55653828
155.00	-60.6	-78.7	0.00273	362.2	0.00001146	0.55654973
151.00	-60.8	-78.5	0.00287	364.5	0.00001142	0.55656115
146.80	-60.8	-78.1	0.00316	367.4	0.00001292	0.55657407
143.00	-60.6	-77.7	0.00344	370.6	0.00001281	0.55658688
139.50	-60.1	-78.2	0.00329	374.0	0.00001202	0.55659891
136.00	-59.9	-78.6	0.00315	377.1	0.00001149	0.55661040
132.00	-59.4	-78.9	0.00309	381.2	0.00001273	0.55662313
128.00	-58.8	-79.1	0.00307	385.7	0.00001258	0.55663571
124.60	-57.9	-79.3	0.00308	390.2	0.00001068	0.55664639
121.00	-57.3	-79.4	0.00310	394.6	0.00001135	0.55665774
118.00	-56.7	-79.6	0.00306	398.6	0.00000943	0.55666717
115.00	-57.1	-79.8	0.00307	400.8	0.00000938	0.55667655

Table 22 (continued)

WASHINGTON,D.C. 2/13/70 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
112.00	-57.5	-79.9	0.00307	403.1	0.00000939	0.55668594
109.00	-57.7	-80.1	0.00308	405.8	0.00000941	0.55669535
105.60	-58.2	-80.3	0.00306	408.7	0.00001065	0.55670600
102.20	-58.4	-80.5	0.00308	412.1	0.00001066	0.55671666
98.80	-58.6	-80.6	0.00311	415.7	0.00001074	0.55672740
95.80	-58.8	-80.8	0.00313	419.0	0.00000955	0.55673695
92.90	-59.0	-80.9	0.00318	422.3	0.00000934	0.55674628
90.00	-59.2	-81.2	0.00312	425.7	0.00000933	0.55675561
87.20	-59.4	-81.4	0.00310	429.1	0.00000888	0.55676449
84.10	-59.7	-81.6	0.00309	433.1	0.00000978	0.55677428
81.50	-59.9	-81.9	0.00302	436.6	0.00000811	0.55678238
79.00	-59.7	-82.1	0.00304	440.9	0.00000773	0.55679011
76.60	-59.2	-82.2	0.00309	445.7	0.00000750	0.55679761
74.10	-58.8	-82.3	0.00315	450.9	0.00000796	0.55680557
71.60	-57.7	-82.3	0.00322	457.6	0.00000812	0.55681369
69.20	-57.1	-82.4	0.00328	463.4	0.00000796	0.55682165
66.90	-56.9	-82.7	0.00326	468.3	0.00000768	0.55682932
64.60	-56.7	-82.8	0.00333	473.5	0.00000773	0.55683705
62.50	-56.7	-82.8	0.00339	478.0	0.00000720	0.55684426
60.40	-56.7	-82.9	0.00346	482.7	0.00000735	0.55685161
58.10	-57.3	-83.1	0.00350	486.7	0.00000817	0.55685978
56.00	-58.6	-83.2	0.00353	488.9	0.00000754	0.55686732
54.00	-59.0	-83.3	0.00361	493.0	0.00000729	0.55687461
52.00	-59.4	-83.3	0.00375	497.4	0.00000751	0.55688212
50.20	-58.6	-83.4	0.00383	504.4	0.00000696	0.55688909
48.30	-56.5	-83.6	0.00387	515.0	0.00000747	0.55689655
46.50	-55.1	-83.8	0.00385	523.9	0.00000709	0.55690365
44.70	-54.7	-83.9	0.00395	530.8	0.00000716	0.55691081
43.20	-54.7	-84.1	0.00397	536.0	0.00000606	0.55691687
41.40	-55.3	-84.3	0.00396	541.1	0.00000729	0.55692415
39.60	-56.5	-84.4	0.00408	545.0	0.00000739	0.55693154
37.90	-58.4	-84.8	0.00402	547.2	0.00000703	0.55693857
36.10	-59.2	-85.1	0.00397	552.6	0.00000734	0.55694591
34.40	-58.6	-85.5	0.00392	562.0	0.00000684	0.55695276
32.60	-58.4	-85.7	0.00395	571.2	0.00000722	0.55695998
30.80	-58.8	-86.2	0.00386	579.4	0.00000717	0.55696715
29.40	-59.2	-86.4	0.00391	586.0	0.00000555	0.55697270
27.90	-59.0	-86.6	0.00399	595.4	0.00000605	0.55697875
26.50	-58.6	-86.7	0.00413	605.5	0.00000580	0.55698455
25.20	-57.9	-86.9	0.00414	616.0	0.00000549	0.55699004
24.20	-57.5	-87.2	0.00410	624.4	0.00000420	0.55699424
23.00	-56.7	-87.4	0.00417	636.0	0.00000506	0.55699930
22.10	-56.1	-87.6	0.00419	645.1	0.00000384	0.55700314
21.20	-55.9	-87.8	0.00422	653.4	0.00000386	0.55700700
20.40	-55.9	-88.1	0.00416	660.6	0.00000342	0.55701042
19.60	-55.3	-88.3	0.00418	670.0	0.00000340	0.55701383
18.85	-54.7	-88.6	0.00412	679.3	0.00000318	0.55701700
18.15	-54.3	-88.7	0.00420	687.9	0.00000297	0.55701997
17.57	-53.8	-88.7	0.00434	696.1	0.00000253	0.55702250
17.00	-53.6	-89.0	0.00424	703.3	0.00000250	0.55702499
16.45	-53.6	-89.2	0.00423	710.0	0.00000238	0.55702737
15.90	-53.6	-89.4	0.00421	716.9	0.00000237	0.55702974
15.50	-53.8	-89.5	0.00424	721.5	0.00000172	0.55703146
15.10	-53.8	-89.6	0.00427	726.9	0.00000174	0.55703320
14.70	-52.7	-90.3	0.00385	736.2	0.00000166	0.55703485

Table 22 (continued)

WASHINGTON,D.C. 2/13/70 1640Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
14.30	-51.8	-90.3	0.00396	745.1	0.00000159	0.55703645
14.00	-51.8	-90.3	0.00404	749.6	0.00000122	0.55703767
13.70	-51.8	-90.2	0.00426	754.3	0.00000127	0.55703894
13.40	-51.8	-90.2	0.00436	759.1	0.00000132	0.55704026
13.15	-51.8	-90.2	0.00444	763.2	0.00000112	0.55704139
12.90	-51.9	-90.5	0.00425	766.7	0.00000111	0.55704249
12.70	-52.1	-90.7	0.00418	769.5	0.00000086	0.55704335
12.50	-51.6	-90.5	0.00439	774.9	0.00000087	0.55704423
12.30	-50.5	-90.3	0.00460	782.2	0.00000092	0.55704515
12.20	-51.4	-90.2	0.00479	781.0	0.00000048	0.55704562
12.10	-52.5	-89.8	0.00514	779.0	0.00000051	0.55704613

Table 23

WASHINGTON,D.C. 2/13/70 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1024.00					
1018.00	26.47	0.00012	0.2	272.0	0.04308
990.00	27.87	0.00074	-0.9	273.1	0.04665
970.00	28.27	0.00119	-1.8	273.7	0.04829
950.00	22.93	0.00157	-2.9	274.3	0.03999
934.00	22.94	0.00188	-4.3	274.1	0.04070
918.00	22.93	0.00219	-5.3	274.5	0.04138
900.00	23.38	0.00256	-5.8	275.5	0.04305
882.00	23.38	0.00293	-7.6	275.3	0.04392
865.00	24.30	0.00330	-8.5	275.8	0.04656
851.00	25.80	0.00363	-9.0	276.6	0.05023
836.00	27.42	0.00402	-9.3	277.7	0.05435
822.00	29.07	0.00441	-10.3	278.0	0.05860
808.00	28.55	0.00479	-11.4	278.2	0.05855
792.00	28.12	0.00524	-12.7	278.4	0.05883
778.50	28.20	0.00562	-13.7	278.7	0.06003
765.00	28.30	0.00601	-14.8	278.9	0.06131
752.00	28.28	0.00639	-15.8	279.2	0.06232
739.00	28.39	0.00679	-16.6	279.8	0.06365
725.80	29.01	0.00720	-17.1	280.7	0.06624
713.00	31.82	0.00765	-17.2	281.9	0.07396
703.00	33.61	0.00802	-15.7	284.7	0.07921
690.00	32.74	0.00850	-14.2	287.9	0.07862
678.60	33.58	0.00894	-13.4	290.1	0.08200
667.00	34.17	0.00941	-12.9	292.1	0.08488
656.00	35.31	0.00987	-11.8	294.8	0.08919
644.00	35.57	0.01039	-10.8	297.5	0.09153
633.30	35.96	0.01087	-10.7	299.1	0.09410
622.00	36.48	0.01139	-10.7	300.6	0.09718
611.00	39.06	0.01194	-11.1	301.7	0.10592
600.00	39.95	0.01251	-11.9	302.3	0.11033
589.00	38.92	0.01308	-12.7	303.0	0.10950
579.00	38.79	0.01360	-13.3	303.7	0.11100
567.70	38.79	0.01421	-14.2	304.4	0.11321
557.00	38.79	0.01479	-14.9	305.2	0.11538
546.50	37.63	0.01535	-15.6	306.1	0.11409
536.00	35.59	0.01590	-15.9	307.4	0.11001
525.50	36.10	0.01646	-16.6	308.4	0.11382
514.00	36.61	0.01710	-17.9	308.7	0.11801
504.00	36.58	0.01767	-19.0	309.1	0.12027
494.00	36.07	0.01824	-20.2	309.5	0.12100
484.00	35.56	0.01881	-21.4	309.8	0.12175
474.00	35.54	0.01940	-22.7	310.1	0.12424
465.00	35.15	0.01993	-23.7	310.5	0.12526
456.00	33.89	0.02046	-25.3	310.2	0.12316
448.00	35.03	0.02095	-26.3	310.5	0.12956
437.00	36.05	0.02165	-27.4	311.3	0.13669
427.50	38.60	0.02232	-28.6	311.8	0.14961
418.00	42.14	0.02307	-29.7	312.3	0.16706
409.00	41.27	0.02378	-31.0	312.6	0.16718
400.00	39.22	0.02447	-31.8	313.6	0.16247
391.20	39.36	0.02516	-32.6	314.6	0.16670
383.00	39.33	0.02582	-33.5	315.2	0.17016
375.00	38.82	0.02646	-34.6	315.7	0.17153
367.00	36.77	0.02709	-35.5	316.4	0.16601
358.70	35.85	0.02774	-36.6	317.0	0.16559

Table 23 (continued)

WASHINGTON,D.C. 2/13/70 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
351.00	36.34	0.02836	-37.6	317.7	0.17153
342.80	34.79	0.02901	-38.9	318.1	0.16819
334.00	35.29	0.02973	-40.1	318.8	0.17505
326.20	35.29	0.03039	-41.7	318.7	0.17924
318.00	34.11	0.03108	-43.4	318.7	0.17773
310.00	31.27	0.03171	-45.1	318.7	0.16712
302.80	28.95	0.03224	-46.7	318.6	0.15841
294.60	28.00	0.03285	-48.6	318.3	0.15751
286.00	26.46	0.03347	-50.3	318.6	0.15331
278.30	25.24	0.03401	-51.8	319.1	0.15027
271.00	24.59	0.03453	-53.2	319.4	0.15036
263.30	25.52	0.03511	-54.7	319.8	0.16062
256.00	25.04	0.03567	-56.5	319.8	0.16208
248.80	25.51	0.03624	-57.7	320.6	0.16988
241.00	26.62	0.03691	-59.0	321.6	0.18300
234.00	28.53	0.03757	-60.1	322.6	0.20201
227.00	29.52	0.03828	-61.2	323.7	0.21549
220.60	28.96	0.03894	-62.2	324.9	0.21753
214.00	35.70	0.03979	-62.2	327.8	0.27642
208.00	47.44	0.04086	-62.2	330.4	0.37795
202.00	58.24	0.04220	-61.5	334.3	0.47775
196.30	73.36	0.04386	-60.6	338.5	0.61927
190.00	86.81	0.04610	-59.4	343.5	0.75710
184.60	92.38	0.04820	-59.0	347.0	0.82923
179.00	98.31	0.05059	-58.8	350.5	0.91004
174.00	104.44	0.05293	-59.0	352.9	0.99455
169.00	99.31	0.05521	-58.4	357.0	0.97375
164.60	93.31	0.05716	-57.7	360.7	0.93938
160.00	93.20	0.05924	-58.2	362.9	0.96520
155.80	96.44	0.06127	-58.6	365.0	1.02565
152.00	103.99	0.06330	-59.0	366.8	1.13364
148.00	107.74	0.06557	-59.4	368.9	1.20631
144.00	113.11	0.06801	-59.4	371.8	1.30152
140.40	127.72	0.07057	-58.8	375.6	1.50738
137.00	141.77	0.07331	-58.4	379.0	1.71471
133.40	152.09	0.07651	-58.2	382.3	1.88910
130.00	151.06	0.07959	-57.9	385.5	1.92547
126.40	153.79	0.08300	-57.7	389.0	2.01613
123.00	148.06	0.08618	-57.7	392.0	1.99455
120.00	142.33	0.08896	-58.6	393.3	1.96528
117.00	139.92	0.09176	-59.0	395.3	1.98154
113.50	155.28	0.09548	-59.4	398.0	2.26691
110.00	159.06	0.09941	-59.7	401.1	2.39599
106.70	145.36	0.10291	-60.1	403.8	2.25738
104.00	140.21	0.10575	-60.6	405.9	2.23400
101.50	135.54	0.10835	-60.8	408.3	2.21266
98.90	152.38	0.11147	-61.0	410.9	2.55297
95.90	176.70	0.11577	-59.9	416.7	3.05314
93.20	182.10	0.11987	-58.6	422.7	3.23750
90.60	180.23	0.12390	-58.4	426.6	3.29631
88.00	181.16	0.12807	-58.4	430.1	3.41125
85.30	182.10	0.13255	-58.4	434.0	3.53733
82.90	184.32	0.13670	-58.4	437.5	3.68411
80.50	190.37	0.14112	-58.4	441.2	3.91858
77.90	196.15	0.14620	-58.6	444.9	4.17238

Table 23 (continued)

WASHINGTON,D.C. 2/13/70 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
75.30	203.76	0.15166	-58.8	448.8	4.48372
72.90	205.96	0.15693	-59.0	452.5	4.68144
70.30	196.19	0.16255	-59.4	456.3	4.62432
68.00	195.92	0.16770	-59.9	459.7	4.77413
66.00	208.90	0.17262	-60.3	462.7	5.24460
64.00	223.13	0.17804	-60.6	466.3	5.77703
62.00	227.30	0.18374	-60.8	470.0	6.07479
60.00	229.82	0.18969	-59.4	477.5	6.34683
58.00	233.97	0.19595	-57.9	485.5	6.68441
56.20	243.79	0.20202	-57.1	491.8	7.18782
54.60	247.78	0.20767	-56.5	497.2	7.51965
53.00	251.46	0.21358	-55.5	503.8	7.86164
51.40	248.55	0.21959	-54.7	510.0	8.01271
50.00	241.66	0.22486	-55.7	511.8	8.00867
48.60	235.81	0.23015	-57.7	511.1	8.03995
47.20	228.44	0.23542	-57.1	516.9	8.01969
46.00	230.53	0.24011	-55.7	524.1	8.30417
44.70	240.52	0.24555	-54.7	530.8	8.91574
43.40	242.19	0.25120	-53.6	538.1	9.24680
42.20	234.55	0.25639	-53.6	542.4	9.20963
41.10	227.79	0.26114	-54.3	544.6	9.18374
40.00	223.92	0.26594	-55.1	546.9	9.27575
38.90	218.56	0.27075	-55.7	549.8	9.30982
37.90	196.33	0.27479	-56.7	551.4	8.58354
36.80	211.53	0.27970	-57.5	553.9	9.52446
35.80	203.03	0.28412	-58.4	556.2	9.39727
34.75	192.42	0.28864	-57.7	562.5	9.17503
33.80	186.77	0.29273	-57.5	567.6	9.15599
32.90	183.90	0.29665	-58.2	570.3	9.26200
32.00	180.68	0.30061	-59.0	572.6	9.35582
31.20	177.08	0.30415	-58.8	577.3	9.40459
30.35	171.55	0.30789	-58.6	582.4	9.36577
29.40	167.80	0.31210	-58.8	587.2	9.45757
28.50	164.95	0.31615	-59.0	591.8	9.59022
27.80	162.19	0.31933	-57.9	599.0	9.66735
27.00	162.59	0.32308	-56.5	608.1	9.97831
26.25	161.40	0.32667	-56.3	613.5	10.18804
25.50	158.26	0.33029	-56.3	618.6	10.28389
24.80	156.94	0.33374	-56.3	623.6	10.48567
24.10	153.35	0.33721	-56.3	628.7	10.54371
23.45	150.15	0.34045	-56.7	632.5	10.60995
22.80	145.52	0.34368	-57.5	635.1	10.57602
22.15	141.83	0.34692	-57.3	641.0	10.61038
21.50	138.58	0.35018	-55.7	651.3	10.68054
20.95	132.42	0.35289	-54.9	658.5	10.47382
20.35	131.00	0.35589	-54.5	665.2	10.66684
19.75	129.66	0.35896	-54.3	671.5	10.87806
19.20	127.86	0.36181	-54.9	675.2	11.03493
18.64	125.53	0.36474	-55.3	679.7	11.15866
18.10	124.48	0.36763	-54.3	688.4	11.39576
17.65	122.32	0.37006	-53.4	696.4	11.48312
17.20	122.12	0.37255	-52.8	703.3	11.76466
16.70	121.72	0.37539	-52.1	711.6	12.07698
16.30	117.68	0.37764	-52.8	714.2	11.96300
15.80	109.79	0.38034	-53.6	718.2	11.51433

Table 23 (continued)

WASHINGTON,D.C. 2/13/70 1640Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
15.40	109.15	0.38255	-53.8	722.8	11.74436
14.90	112.52	0.38548	-54.0	729.1	12.51311
14.50	109.79	0.38784	-53.8	735.4	12.54665
14.10	108.11	0.39023	-53.4	742.6	12.70430
13.70	105.03	0.39262	-53.0	749.9	12.70286
13.32	101.86	0.39488	-52.5	757.9	12.67118
13.00	100.29	0.39681	-51.8	765.7	12.78261
12.67	97.65	0.39879	-51.0	773.8	12.77041
12.40	95.45	0.40041	-51.0	778.6	12.75461
12.20	94.13	0.40162	-51.9	779.1	12.78450
12.10	77.95	0.40213	-52.8	777.7	10.67445
12.00	1.90	0.40214	-52.8	779.5	0.26175

Table 24

WASHINGTON,D.C. 3/28/70 1436Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1020.10	9.9	-1.4	3.33040	281.4		
1015.50	9.1	-2.0	3.17638	281.0	0.01527102	0.01527102
1010.00	8.3	-2.6	3.03573	280.7	0.01743196	0.03270298
1004.00	7.6	-3.2	2.90602	280.4	0.01818903	0.05089201
994.00	7.0	-3.2	2.93539	280.6	0.02980308	0.08069509
978.00	6.3	-3.8	2.84205	281.2	0.04716274	0.12785784
963.00	5.4	-3.8	2.88652	281.6	0.04384108	0.17169892
949.00	4.8	-3.8	2.92930	282.2	0.04154161	0.21324054
938.00	4.0	-3.8	2.96382	282.2	0.03307366	0.24631420
923.00	3.4	-2.6	3.32340	283.0	0.04811651	0.29443071
907.00	2.7	-4.4	2.92300	283.7	0.05099104	0.34542175
895.00	2.0	-6.0	2.58218	284.0	0.03370519	0.37912694
882.00	1.4	-9.7	1.88101	284.6	0.02960280	0.40872974
868.50	0.5	-10.2	1.83838	284.9	0.02561825	0.43434799
855.00	-0.5	-10.6	1.79822	285.2	0.02504803	0.45939602
842.00	-1.0	-6.5	2.62708	285.8	0.02935150	0.48874752
828.00	-1.6	-7.0	2.55857	286.6	0.03704035	0.52578787
815.00	-2.2	-7.9	2.38956	287.2	0.03281920	0.55860706
800.00	-2.6	-7.9	2.43453	288.3	0.03691906	0.59552612
785.50	-3.2	-7.9	2.47965	289.3	0.03635497	0.63188109
771.00	-3.7	-9.3	2.23844	290.2	0.03490426	0.66678535
758.00	-4.2	-11.0	1.95493	291.1	0.02781315	0.69459849
746.00	-4.6	-14.1	1.50260	292.0	0.02116856	0.71576706
732.00	-5.0	-21.6	0.74879	293.1	0.01608139	0.73184845
717.00	-4.8	-23.6	0.62998	295.2	0.01055178	0.74240023
703.00	-4.4	-20.3	0.88649	297.3	0.01083189	0.75323212
689.00	-4.5	-18.0	1.12618	298.8	0.01437619	0.76760830
675.00	-4.8	-14.8	1.55628	300.3	0.01916038	0.78676868
661.00	-5.7	-14.8	1.58932	301.1	0.02246856	0.80923724
648.00	-6.6	-14.1	1.73048	301.7	0.02201911	0.83125635
635.00	-7.5	-12.2	2.09498	302.5	0.02537296	0.85662931
622.00	-8.3	-13.3	1.92783	303.4	0.02668191	0.88331122
609.00	-9.3	-20.3	1.02355	304.0	0.01957546	0.90288668
595.00	-10.3	-20.6	1.02061	304.9	0.01460110	0.91748777
582.00	-11.5	-17.7	1.37255	305.4	0.01587302	0.93336079
570.00	-13.0	-15.5	1.73027	305.5	0.01899690	0.95235769
558.00	-14.5	-15.8	1.71331	305.6	0.02108313	0.97344082
545.00	-16.0	-15.8	1.75429	305.8	0.02299936	0.99644018
533.00	-17.3	-16.1	1.73946	306.3	0.02139031	1.01783049
520.50	-18.8	-17.1	1.62757	306.6	0.02147343	1.03930393
508.00	-20.2	-18.0	1.52842	307.0	0.02012750	1.05943142
495.00	-21.5	-20.3	1.25975	307.6	0.01849294	1.07792437
485.00	-22.9	-22.7	1.02474	307.7	0.01165553	1.08957990
473.80	-23.8	-27.7	0.63141	308.7	0.00946369	1.09904359
462.00	-24.7	-39.3	0.18698	309.8	0.00492706	1.10397065
451.00	-25.6	-39.8	0.18123	310.8	0.00206648	1.10603714
440.00	-26.5	-37.5	0.23990	311.9	0.00236345	1.10840059
429.00	-27.3	-35.3	0.31383	313.1	0.00310766	1.11150825
420.00	-28.3	-36.4	0.28325	313.7	0.00274170	1.11424995
415.30	-29.2	-38.2	0.23633	313.6	0.00124592	1.11549587
409.00	-29.8	-39.4	0.20830	314.2	0.00142916	1.11692504
403.20	-30.4	-41.1	0.17475	314.7	0.00113353	1.11805857
397.00	-30.8	-46.7	0.09246	315.6	0.00084525	1.11890382
391.00	-31.2	-48.9	0.07169	316.4	0.00050249	1.11940631
385.00	-31.7	-48.9	0.07281	317.1	0.00044234	1.11984865

Table 24 (continued)

WASHINGTON,D.C. 3/28/70 1436Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
379.00	-32.3	-50.1	0.06354	317.8	0.00041740	1.12026605
373.00	-32.9	-51.2	0.05625	318.4	0.00036671	1.12063276
367.30	-33.5	-53.2	0.04457	319.1	0.00029320	1.12092596
362.00	-34.3	-53.4	0.04431	319.3	0.00024035	1.12116632
356.00	-34.9	-53.0	0.04742	320.1	0.00028080	1.12144712
350.00	-35.8	-52.8	0.04923	320.3	0.00029584	1.12174296
344.50	-37.1	-52.0	0.05544	320.1	0.00029371	1.12203667
339.00	-37.2	-52.1	0.05576	321.4	0.00031204	1.12234871
333.50	-37.7	-54.2	0.04348	322.3	0.00027848	1.12262718
328.00	-38.5	-55.5	0.03732	322.6	0.00022673	1.12285392
323.00	-39.4	-55.8	0.03643	322.8	0.00018814	1.12304206
317.00	-40.3	-55.9	0.03676	323.4	0.00022404	1.12326610
312.00	-41.5	-55.9	0.03698	323.2	0.00018810	1.12345420
307.00	-42.2	-56.1	0.03685	323.6	0.00018834	1.12364254
302.00	-43.3	-56.6	0.03498	323.6	0.00018323	1.12382578
297.00	-44.1	-57.5	0.03165	324.0	0.00016996	1.12399574
292.00	-45.1	-58.4	0.02839	324.2	0.00015315	1.12414889
287.00	-45.9	-59.2	0.02599	324.7	0.00013871	1.12428760
282.00	-46.9	-60.6	0.02206	324.9	0.00012256	1.12441016
277.00	-47.9	-61.3	0.02022	325.1	0.00010784	1.12451800
272.00	-48.7	-61.5	0.02020	325.6	0.00010311	1.12462111
268.00	-50.0	-61.5	0.02031	325.1	0.00008267	1.12470378
263.50	-50.9	-61.8	0.01988	325.4	0.00009227	1.12479605
259.00	-51.8	-62.7	0.01804	325.7	0.00008706	1.12488311
254.50	-52.7	-63.4	0.01653	325.9	0.00007936	1.12496248
250.00	-53.5	-65.1	0.01324	326.4	0.00006835	1.12503083
245.50	-53.9	-65.8	0.01225	327.6	0.00005852	1.12508935
241.00	-54.7	-66.1	0.01200	328.1	0.00005567	1.12514502
237.00	-55.7	-66.1	0.01209	328.2	0.00004916	1.12519418
233.00	-56.5	-66.9	0.01094	328.5	0.00004700	1.12524118
228.70	-57.3	-67.9	0.00962	329.0	0.00004512	1.12528629
224.00	-58.0	-68.6	0.00899	329.9	0.00004463	1.12533092
220.50	-58.4	-68.8	0.00877	330.7	0.00003172	1.12536264
217.00	-59.1	-70.0	0.00744	331.2	0.00002896	1.12539160
213.00	-59.8	-70.1	0.00750	331.9	0.00003050	1.12542210
209.00	-60.5	-70.7	0.00698	332.6	0.00002955	1.12545165
206.00	-60.2	-70.3	0.00753	334.4	0.00002220	1.12547385
202.30	-60.2	-69.5	0.00865	336.1	0.00003054	1.12550439
198.30	-60.2	-69.0	0.00947	338.0	0.00003698	1.12554137
194.00	-60.0	-70.3	0.00799	340.5	0.00003831	1.12557968
190.50	-59.8	-71.3	0.00698	342.7	0.00002673	1.12560640
187.00	-59.5	-72.4	0.00607	344.9	0.00002330	1.12562970
183.30	-59.5	-73.8	0.00500	346.9	0.00002089	1.12565060
180.00	-59.5	-74.5	0.00456	348.7	0.00001608	1.12566668
176.60	-59.5	-75.2	0.00415	350.6	0.00001510	1.12568178
173.00	-59.5	-75.8	0.00387	352.6	0.00001473	1.12569651
169.50	-59.1	-76.5	0.00355	355.4	0.00001325	1.12570976
166.00	-57.8	-77.0	0.00334	359.8	0.00001231	1.12572207
162.50	-56.7	-77.4	0.00318	363.8	0.00001164	1.12573371
159.00	-56.9	-77.6	0.00317	365.7	0.00001133	1.12574504
156.00	-57.6	-78.0	0.00304	366.6	0.00000950	1.12575453
153.00	-58.2	-78.2	0.00298	367.5	0.00000921	1.12576375
150.00	-58.9	-78.4	0.00297	368.5	0.00000911	1.12577286
147.00	-59.8	-78.8	0.00281	369.0	0.00000884	1.12578170
144.00	-60.5	-78.9	0.00283	370.0	0.00000863	1.12579033

Table 24 (continued)

WASHINGTON,D.C. 3/28/70 1436Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
141.00	-60.7	-79.1	0.00282	371.8	0.00000865	1.12579898
138.00	-60.9	-79.1	0.00284	373.7	0.00000867	1.12580764
135.00	-60.9	-79.2	0.00287	376.1	0.00000874	1.12581639
132.30	-60.5	-79.4	0.00282	379.1	0.00000783	1.12582422
129.50	-59.8	-79.8	0.00273	382.6	0.00000793	1.12583215
127.00	-58.9	-80.2	0.00257	386.4	0.00000677	1.12583891
124.00	-58.4	-80.2	0.00267	389.9	0.00000802	1.12584694
121.20	-58.7	-80.2	0.00270	392.0	0.00000767	1.12585460
118.00	-59.1	-80.4	0.00270	394.2	0.00000880	1.12586341
115.60	-60.0	-80.4	0.00275	394.8	0.00000667	1.12587008
113.00	-61.2	-80.6	0.00274	395.2	0.00000728	1.12587736
110.00	-60.9	-80.7	0.00278	398.7	0.00000844	1.12588580
107.00	-59.8	-80.7	0.00282	404.1	0.00000856	1.12589437
104.30	-58.2	-80.8	0.00285	410.0	0.00000781	1.12590217
102.00	-55.5	-80.9	0.00287	417.9	0.00000672	1.12590889
100.00	-54.1	-81.4	0.00270	423.0	0.00000569	1.12591458
97.50	-54.1	-81.3	0.00281	426.1	0.00000702	1.12592160
95.10	-54.5	-81.2	0.00292	428.3	0.00000701	1.12592861
92.90	-55.3	-81.4	0.00290	429.6	0.00000654	1.12593514
90.60	-55.9	-81.3	0.00302	431.5	0.00000695	1.12594210
88.30	-56.5	-81.2	0.00314	433.4	0.00000723	1.12594933
86.00	-57.1	-81.5	0.00309	435.4	0.00000732	1.12595665
83.80	-57.8	-81.7	0.00304	437.4	0.00000689	1.12596354
81.70	-58.2	-82.0	0.00299	439.7	0.00000647	1.12597001
79.60	-58.4	-82.1	0.00303	442.5	0.00000645	1.12597646
77.80	-58.7	-82.9	0.00268	444.9	0.00000524	1.12598169
75.80	-58.9	-82.9	0.00279	447.8	0.00000557	1.12598727
73.70	-58.0	-82.6	0.00300	453.3	0.00000620	1.12599346
71.90	-57.3	-82.3	0.00321	457.9	0.00000570	1.12599916
69.90	-56.7	-82.4	0.00325	462.9	0.00000659	1.12600576
68.10	-56.1	-82.6	0.00324	467.7	0.00000597	1.12601172
66.30	-55.9	-82.9	0.00319	471.8	0.00000590	1.12601763
64.60	-55.5	-82.9	0.00322	476.2	0.00000556	1.12602319
62.90	-55.1	-83.1	0.00321	480.7	0.00000558	1.12602877
61.10	-54.7	-83.4	0.00316	485.6	0.00000585	1.12603462
59.40	-54.3	-83.8	0.00301	490.4	0.00000535	1.12603997
57.80	-53.7	-84.0	0.00300	495.6	0.00000491	1.12604488
56.10	-53.7	-84.0	0.00309	499.8	0.00000528	1.12605016
54.40	-53.7	-83.9	0.00324	504.3	0.00000549	1.12605564
52.80	-53.3	-83.8	0.00339	509.5	0.00000541	1.12606105
51.20	-51.4	-84.7	0.00303	518.4	0.00000524	1.12606629
49.80	-50.0	-85.1	0.00287	525.9	0.00000421	1.12607050
48.30	-50.3	-85.2	0.00291	529.7	0.00000442	1.12607493
46.90	-50.9	-85.3	0.00295	532.8	0.00000419	1.12607911
45.40	-51.4	-85.5	0.00295	536.5	0.00000451	1.12608362
44.00	-51.8	-85.7	0.00294	540.4	0.00000420	1.12608783
42.60	-52.3	-85.8	0.00298	544.0	0.00000423	1.12609206
41.30	-52.9	-85.8	0.00308	547.5	0.00000402	1.12609608
40.00	-52.2	-86.0	0.00307	554.4	0.00000408	1.12610016
38.60	-50.0	-86.1	0.00313	565.6	0.00000443	1.12610459
37.30	-49.3	-86.4	0.00307	573.0	0.00000411	1.12610870
36.00	-50.5	-86.7	0.00302	575.6	0.00000404	1.12611274
34.60	-51.6	-86.9	0.00303	579.3	0.00000432	1.12611706
33.30	-51.6	-87.0	0.00309	585.7	0.00000406	1.12612113
32.00	-51.4	-87.3	0.00305	592.9	0.00000407	1.12612520

Table 24 (continued)

WASHINGTON,D.C. 3/28/70 1436Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
30.80	-51.4	-87.6	0.00299	599.4	0.00000370	1.12612890
29.40	-51.0	-88.1	0.00291	608.4	0.00000422	1.12613311
28.10	-50.7	-88.3	0.00293	617.3	0.00000387	1.12613698
26.80	-50.5	-88.7	0.00284	626.2	0.00000383	1.12614081
25.50	-50.1	-89.1	0.00275	636.2	0.00000371	1.12614452
24.20	-50.0	-89.7	0.00262	646.3	0.00000356	1.12614808
23.20	-49.6	-90.2	0.00251	655.2	0.00000262	1.12615070
22.10	-48.9	-90.5	0.00247	666.4	0.00000279	1.12615349
21.20	-48.7	-90.8	0.00246	674.9	0.00000226	1.12615575
20.35	-48.9	-91.0	0.00245	682.3	0.00000213	1.12615788
19.55	-49.6	-91.4	0.00238	688.0	0.00000197	1.12615985
18.80	-50.3	-91.5	0.00242	693.6	0.00000184	1.12616169
18.10	-50.7	-91.4	0.00255	700.0	0.00000177	1.12616346
17.40	-50.1	-92.0	0.00239	709.6	0.00000176	1.12616523
16.86	-49.6	-92.6	0.00221	717.8	0.00000127	1.12616649
16.30	-48.9	-92.6	0.00229	727.0	0.00000129	1.12616778
15.75	-48.4	-92.7	0.00232	735.9	0.00000129	1.12616908
15.25	-48.2	-92.9	0.00228	743.2	0.00000118	1.12617025
14.70	-48.0	-93.2	0.00225	751.7	0.00000127	1.12617152
14.30	-47.4	-93.9	0.00201	759.9	0.00000087	1.12617239
13.85	-46.4	-94.3	0.00193	770.3	0.00000090	1.12617330
13.40	-45.4	-94.6	0.00191	780.9	0.00000088	1.12617418
13.00	-44.3	-95.0	0.00182	791.6	0.00000076	1.12617494
12.60	-43.3	-95.1	0.00184	802.0	0.00000075	1.12617569
12.25	-42.1	-94.6	0.00206	812.8	0.00000070	1.12617638
11.90	-40.9	-94.3	0.00224	823.9	0.00000077	1.12617715
11.56	-40.0	-94.2	0.00237	833.9	0.00000080	1.12617795
11.20	-39.1	-97.6	0.00127	844.6	0.00000067	1.12617862
10.92	-38.0	-97.3	0.00137	855.0	0.00000038	1.12617900
10.60	-36.8	-96.4	0.00168	866.4	0.00000050	1.12617950
10.32	-36.1	-96.7	0.00165	875.7	0.00000047	1.12617997
10.00	-35.8	-96.9	0.00163	884.7	0.00000054	1.12618051
9.70	-35.4	-96.9	0.00168	894.0	0.00000051	1.12618101
9.50	-35.4	-97.1	0.00164	899.3	0.00000034	1.12618135
9.30	-35.4	-96.9	0.00175	904.8	0.00000035	1.12618170
9.13	-35.8	-97.3	0.00163	908.0	0.00000029	1.12618199

Table 25

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1020.10					
1015.50	48.87	0.00017	9.1	281.0	0.07975
1010.00	49.42	0.00039	8.3	280.7	0.08108
1004.00	49.97	0.00062	7.6	280.4	0.08247
994.00	50.86	0.00102	7.0	280.6	0.08478
978.00	50.86	0.00167	6.3	281.2	0.08617
963.00	51.36	0.00230	5.4	281.6	0.08838
949.00	43.93	0.00281	4.8	282.2	0.07671
938.00	43.93	0.00321	4.0	282.2	0.07761
923.00	43.93	0.00377	3.4	283.0	0.07887
907.00	43.43	0.00437	2.7	283.7	0.07934
895.00	43.43	0.00483	2.0	284.0	0.08041
882.00	43.43	0.00533	1.4	284.6	0.08159
868.50	43.43	0.00586	0.5	284.9	0.08286
855.00	43.43	0.00640	-0.5	285.2	0.08417
842.00	44.41	0.00693	-1.0	285.8	0.08739
828.00	44.41	0.00752	-1.6	286.6	0.08886
815.00	43.37	0.00806	-2.2	287.2	0.08817
800.00	40.84	0.00866	-2.6	288.3	0.08458
785.50	41.93	0.00927	-3.2	289.3	0.08846
771.00	41.38	0.00988	-3.7	290.2	0.08894
758.00	38.79	0.01040	-4.2	291.1	0.08479
746.00	39.34	0.01089	-4.6	292.0	0.08738
732.00	39.89	0.01149	-5.0	293.1	0.09029
717.00	42.45	0.01218	-4.8	295.2	0.09810
703.00	39.71	0.01280	-4.4	297.3	0.09360
689.00	37.52	0.01340	-4.5	298.8	0.09023
675.00	35.20	0.01397	-4.8	300.3	0.08640
661.00	33.44	0.01452	-5.7	301.1	0.08383
648.00	33.44	0.01505	-6.6	301.7	0.08552
635.00	33.44	0.01558	-7.5	302.5	0.08727
622.00	32.05	0.01611	-8.3	303.4	0.08539
609.00	31.13	0.01663	-9.3	304.0	0.08471
595.00	32.12	0.01721	-10.3	304.9	0.08945
582.00	30.59	0.01775	-11.5	305.4	0.08709
570.00	29.50	0.01823	-13.0	305.5	0.08575
558.00	28.93	0.01872	-14.5	305.6	0.08592
545.00	28.93	0.01926	-16.0	305.8	0.08797
533.00	28.80	0.01976	-17.3	306.3	0.08954
520.50	28.26	0.02029	-18.8	306.6	0.08996
508.00	26.61	0.02080	-20.2	307.0	0.08681
495.00	26.05	0.02134	-21.5	307.6	0.08722
485.00	25.17	0.02174	-22.9	307.7	0.08599
473.80	25.18	0.02221	-23.8	308.7	0.08805
462.00	24.26	0.02269	-24.7	309.8	0.08702
451.00	23.25	0.02313	-25.6	310.8	0.08544
440.00	22.31	0.02357	-26.5	311.9	0.08403
429.00	20.84	0.02399	-27.3	313.1	0.08051
420.00	20.74	0.02433	-28.3	313.7	0.08184
411.50	20.20	0.02466	-29.2	314.4	0.08133
403.00	20.18	0.02499	-29.9	315.4	0.08299
393.00	18.00	0.02535	-30.5	316.8	0.07588
383.00	17.98	0.02571	-31.9	317.4	0.07781
373.50	17.41	0.02606	-33.1	318.1	0.07726
364.00	17.49	0.02642	-34.0	319.2	0.07961
355.00	17.00	0.02675	-35.4	319.6	0.07936

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
346.00	16.92	0.02709	-36.8	320.1	0.08102
336.50	15.99	0.02745	-38.2	320.7	0.07872
328.00	13.68	0.02772	-39.7	321.0	0.06910
318.00	12.49	0.02803	-40.9	322.2	0.06509
310.00	12.48	0.02828	-42.2	322.7	0.06673
303.00	11.95	0.02849	-43.5	323.1	0.06533
294.00	11.37	0.02876	-44.7	324.1	0.06407
286.00	11.67	0.02902	-46.0	324.8	0.06759
278.00	11.06	0.02927	-47.5	325.3	0.06590
269.50	11.04	0.02954	-48.7	326.4	0.06789
262.00	11.03	0.02978	-50.1	327.0	0.06979
255.00	9.94	0.03000	-51.8	327.1	0.06459
247.50	9.39	0.03022	-52.9	328.2	0.06286
240.00	9.88	0.03046	-54.7	328.5	0.06818
233.00	10.36	0.03070	-55.9	329.4	0.07371
226.00	11.38	0.03097	-57.6	329.8	0.08344
219.00	11.57	0.03126	-58.2	331.7	0.08754
212.00	15.50	0.03166	-59.1	333.4	0.12111
206.00	22.44	0.03217	-60.2	334.4	0.18048
200.00	28.09	0.03282	-60.9	336.1	0.23272
193.00	32.86	0.03375	-60.9	339.5	0.28211
187.00	38.22	0.03470	-60.9	342.6	0.33868
181.00	56.12	0.03614	-59.8	347.7	0.51372
175.50	71.42	0.03788	-58.4	353.0	0.67431
170.00	86.13	0.04005	-57.8	357.3	0.83953
165.00	86.64	0.04209	-56.5	362.5	0.87003
160.00	84.83	0.04415	-56.7	365.4	0.87852
155.00	86.69	0.04633	-57.3	367.6	0.92674
150.00	91.60	0.04870	-58.0	370.0	1.01182
146.00	91.83	0.05066	-58.7	371.7	1.04226
142.50	84.64	0.05228	-59.1	373.5	0.98416
138.30	79.82	0.05416	-58.9	377.1	0.95631
134.00	74.40	0.05602	-58.7	380.9	0.92004
131.00	65.93	0.05720	-58.7	383.4	0.83390
128.00	57.33	0.05825	-58.9	385.5	0.74210
124.50	63.44	0.05964	-59.1	388.2	0.84428
121.00	69.70	0.06120	-59.3	391.0	0.95447
117.30	65.30	0.06281	-60.0	393.2	0.92239
114.00	60.64	0.06417	-60.7	395.1	0.88141
111.80	54.13	0.06500	-60.5	397.8	0.80234
109.00	71.26	0.06643	-60.2	401.1	1.08324
106.00	89.10	0.06839	-59.1	406.5	1.39286
103.00	83.19	0.07028	-58.2	411.5	1.33833
100.50	76.81	0.07177	-56.7	417.3	1.26648
98.00	90.33	0.07357	-55.5	422.7	1.52727
95.80	101.85	0.07539	-54.3	427.8	1.76172
93.10	97.39	0.07759	-54.5	430.9	1.73342
90.90	87.58	0.07925	-55.1	432.7	1.59648
88.80	84.00	0.08080	-55.7	434.4	1.56745
86.70	82.65	0.08236	-55.9	437.0	1.57957
84.50	80.87	0.08400	-56.5	438.9	1.58580
82.30	72.31	0.08550	-56.7	441.8	1.45580
80.00	73.82	0.08716	-57.3	444.1	1.52904
78.40	82.98	0.08848	-57.6	446.2	1.75383
76.60	101.33	0.09034	-57.3	449.6	2.19187

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
74.80	121.35	0.09262	-56.9	453.6	2.68821
73.00	137.67	0.09526	-56.7	457.2	3.12501
71.50	152.01	0.09776	-56.5	460.4	3.52287
69.90	160.05	0.10062	-56.3	463.8	3.79392
68.20	175.81	0.10403	-56.1	467.5	4.27149
66.60	183.82	0.10748	-55.7	471.6	4.57350
65.00	195.97	0.11124	-55.5	475.3	4.99581
63.50	188.73	0.11472	-55.3	479.0	4.92482
62.10	166.39	0.11765	-55.1	482.5	4.43971
60.70	149.67	0.12034	-54.7	486.5	4.08560
59.00	135.85	0.12339	-54.3	491.4	3.81533
57.60	127.26	0.12580	-54.1	495.2	3.66089
56.20	128.50	0.12830	-54.1	498.7	3.78878
54.90	125.82	0.13063	-54.1	502.0	3.79758
53.70	123.20	0.13278	-54.1	505.2	3.80168
52.40	120.95	0.13512	-53.9	509.2	3.82462
51.30	120.52	0.13713	-53.5	513.2	3.89281
50.00	126.69	0.13970	-52.2	520.1	4.19840
48.90	139.51	0.14215	-50.9	526.5	4.72743
47.70	146.48	0.14503	-50.7	530.7	5.08837
46.60	149.58	0.14778	-50.5	534.7	5.31860
45.50	151.35	0.15064	-50.3	538.8	5.51197
44.40	153.59	0.15360	-50.3	542.6	5.73210
43.30	157.71	0.15673	-50.9	545.1	6.03515
42.30	159.49	0.15967	-51.8	546.5	6.24745
41.20	156.60	0.16293	-52.3	549.3	6.29820
40.30	152.87	0.16559	-52.5	552.3	6.28554
39.30	152.32	0.16861	-51.6	558.6	6.42225
38.40	159.32	0.17153	-48.9	569.1	6.87499
37.50	171.90	0.17475	-47.5	576.5	7.59577
36.60	179.30	0.17819	-48.4	578.3	8.11744
35.80	180.14	0.18133	-49.1	580.2	8.33757
34.90	181.44	0.18498	-49.1	584.4	8.61448
34.10	180.87	0.18829	-49.1	588.3	8.78900
33.40	177.13	0.19119	-50.0	589.5	8.78766
32.60	173.51	0.19451	-50.9	591.2	8.81939
31.80	171.15	0.19787	-51.0	594.9	8.91821
31.00	169.72	0.20128	-50.9	599.7	9.07193
30.20	166.39	0.20472	-50.5	605.2	9.12964
29.40	164.45	0.20820	-50.3	610.4	9.26867
28.70	162.67	0.21130	-50.5	614.1	9.39179
28.00	161.31	0.21444	-50.7	617.9	9.54597
27.30	159.95	0.21764	-50.9	621.9	9.70805
26.60	158.95	0.22090	-51.0	626.0	9.90152
25.95	158.86	0.22400	-51.6	628.9	10.14397
25.30	158.39	0.22718	-51.0	635.1	10.37388
24.60	154.24	0.23059	-50.7	641.2	10.38925
24.00	155.60	0.23363	-50.0	647.9	10.74260
23.40	153.25	0.23669	-49.6	653.6	10.85210
22.80	153.70	0.23984	-48.9	660.5	11.17031
22.20	153.17	0.24307	-48.7	666.1	11.43246
21.60	152.92	0.24638	-48.6	671.8	11.73088
21.10	152.39	0.24919	-48.6	676.4	11.96719
20.50	152.75	0.25267	-48.6	682.0	12.34696
20.00	153.57	0.25567	-48.4	687.3	12.72313

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
19.50	151.77	0.25870	-48.4	692.3	12.89688
19.00	148.18	0.26174	-48.9	695.8	12.92328
18.50	144.17	0.26478	-49.6	699.0	12.91324
18.05	142.38	0.26754	-50.3	701.7	13.07094
17.60	138.81	0.27031	-50.9	705.0	13.06827
17.15	138.36	0.27314	-51.0	709.7	13.36796
16.70	135.65	0.27599	-51.0	715.1	13.45975
16.23	131.64	0.27896	-50.7	722.1	13.44003
15.75	126.69	0.28196	-50.5	728.9	13.32854
15.35	123.15	0.28446	-50.0	736.1	13.29363
14.93	117.76	0.28704	-49.8	742.5	13.06963
14.57	114.12	0.28924	-48.9	750.7	12.97803
14.20	111.08	0.29149	-48.6	757.4	12.96209
13.80	109.76	0.29397	-48.0	765.3	13.17892
13.40	109.33	0.29651	-47.4	774.1	13.51914
13.05	108.58	0.29878	-46.7	782.3	13.78668
12.70	107.84	0.30109	-45.6	792.4	14.06956
12.40	108.65	0.30314	-44.1	802.9	14.51888
12.10	107.42	0.30522	-43.8	809.7	14.70984
11.77	105.92	0.30753	-43.3	817.7	14.91147
11.45	104.41	0.30981	-42.2	828.1	15.10918
11.15	103.88	0.31198	-41.2	838.2	15.43702
10.83	103.35	0.31436	-40.4	848.0	15.81223
10.58	101.61	0.31623	-40.0	855.3	15.91425
10.30	102.50	0.31840	-39.3	864.6	16.49004
10.00	106.83	0.32090	-37.8	877.3	17.70171
9.80	107.51	0.32261	-36.7	886.6	18.17760
9.43	109.24	0.32593	-36.0	899.1	19.19549
9.25	105.72	0.32754	-35.0	907.8	18.93781
9.10	102.66	0.32886	-34.3	914.6	18.69237
8.97	101.18	0.33001	-33.5	921.6	18.69147
8.88	100.24	0.33081	-33.5	924.2	18.70463
8.78	99.64	0.33170	-33.5	927.2	18.80416
8.71	98.77	0.33233	-33.9	927.8	18.79062
8.65	97.47	0.33286	-34.2	928.5	18.67224
8.59	94.88	0.33338	-34.3	929.8	18.30177
8.56	90.82	0.33363	-34.2	931.3	17.58093
8.53	88.33	0.33388	-34.0	932.8	17.15946
8.51	87.77	0.33404	-33.9	933.9	17.09064

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
481.00					
475.00	23.34	0.00023	-21.8	310.9	0.08143
468.00	22.92	0.00050	-22.7	311.2	0.08116
461.00	22.45	0.00077	-23.3	311.7	0.08068
454.70	21.54	0.00100	-24.2	311.8	0.07849
448.00	20.77	0.00124	-24.8	312.4	0.07683
441.40	20.39	0.00148	-25.7	312.6	0.07654
434.00	20.45	0.00176	-26.8	312.8	0.07808
428.00	20.44	0.00198	-27.7	312.9	0.07914
422.00	20.12	0.00221	-28.6	313.0	0.07900
415.30	19.35	0.00245	-29.2	313.6	0.07720
409.00	17.82	0.00267	-29.8	314.2	0.07221
403.20	17.39	0.00286	-30.4	314.7	0.07148
397.00	16.91	0.00307	-30.8	315.6	0.07059
391.00	16.97	0.00327	-31.2	316.4	0.07193
385.00	16.61	0.00348	-31.7	317.1	0.07149
379.00	16.18	0.00368	-32.3	317.8	0.07074
373.00	15.81	0.00387	-32.9	318.4	0.07026
367.30	15.39	0.00406	-33.5	319.1	0.06943
362.00	15.02	0.00423	-34.3	319.3	0.06877
356.00	14.25	0.00442	-34.9	320.1	0.06631
350.00	13.33	0.00460	-35.8	320.3	0.06309
344.50	12.87	0.00476	-37.1	320.1	0.06188
339.00	12.87	0.00493	-37.2	321.4	0.06288
333.50	12.46	0.00509	-37.7	322.3	0.06190
328.00	12.00	0.00524	-38.5	322.6	0.06064
323.00	12.06	0.00539	-39.4	322.8	0.06185
317.00	11.65	0.00556	-40.3	323.4	0.06090
312.00	11.66	0.00571	-41.5	323.2	0.06191
307.00	11.66	0.00586	-42.2	323.6	0.06292
302.00	11.66	0.00601	-43.3	323.6	0.06399
297.00	11.66	0.00616	-44.1	324.0	0.06507
292.00	11.72	0.00632	-45.1	324.2	0.06652
287.00	11.72	0.00648	-45.9	324.7	0.06768
282.00	11.72	0.00664	-46.9	324.9	0.06888
277.00	11.73	0.00681	-47.9	325.1	0.07015
272.00	11.78	0.00698	-48.7	325.6	0.07177
268.00	12.20	0.00712	-50.0	325.1	0.07543
263.50	12.20	0.00728	-50.9	325.4	0.07672
259.00	12.67	0.00746	-51.8	325.7	0.08108
254.50	13.61	0.00764	-52.7	325.9	0.08861
250.00	15.75	0.00787	-53.5	326.4	0.10439
245.50	16.62	0.00810	-53.9	327.6	0.11218
241.00	17.05	0.00835	-54.7	328.1	0.11725
237.00	17.48	0.00858	-55.7	328.2	0.12225
233.00	19.93	0.00885	-56.5	328.5	0.14170
228.70	21.51	0.00917	-57.3	329.0	0.15584
224.00	23.26	0.00955	-58.0	329.9	0.17205
220.50	25.44	0.00987	-58.4	330.7	0.19114
217.00	28.38	0.01022	-59.1	331.2	0.21672
213.00	30.31	0.01067	-59.8	331.9	0.23582
209.00	33.24	0.01117	-60.5	332.6	0.26354
206.00	36.28	0.01158	-60.2	334.4	0.29186
202.30	39.84	0.01215	-60.2	336.1	0.32632
198.30	47.35	0.01290	-60.2	338.0	0.39566
194.00	54.92	0.01385	-60.0	340.5	0.46912

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
190.50	57.92	0.01468	-59.8	342.7	0.50382
187.00	60.37	0.01557	-59.5	344.9	0.53495
183.30	62.00	0.01654	-59.5	346.9	0.56044
180.00	63.59	0.01746	-59.5	348.7	0.58540
176.60	65.29	0.01844	-59.5	350.6	0.61261
173.00	69.54	0.01957	-59.5	352.6	0.66609
169.50	76.54	0.02081	-59.1	355.4	0.74828
166.00	84.83	0.02220	-57.8	359.8	0.84677
162.50	90.09	0.02372	-56.7	363.8	0.91868
159.00	83.13	0.02515	-56.9	365.7	0.86631
156.00	78.70	0.02633	-57.6	366.6	0.83594
153.00	84.89	0.02763	-58.2	367.5	0.91932
150.00	86.26	0.02898	-58.9	368.5	0.95286
147.00	85.65	0.03035	-59.8	369.0	0.96545
144.00	83.47	0.03171	-60.5	370.0	0.96052
141.00	82.50	0.03308	-60.7	371.8	0.96951
138.00	80.34	0.03444	-60.9	373.7	0.96462
135.00	77.30	0.03578	-60.9	376.1	0.94881
132.30	72.52	0.03694	-60.5	379.1	0.90830
129.50	67.64	0.03808	-59.8	382.6	0.86546
127.00	63.35	0.03906	-58.9	386.4	0.82659
124.00	62.58	0.04024	-58.4	389.9	0.83619
121.20	62.35	0.04136	-58.7	392.0	0.85245
118.00	64.79	0.04273	-59.1	394.2	0.90979
115.60	69.25	0.04386	-60.0	394.8	0.99264
113.00	75.95	0.04522	-61.2	395.2	1.11370
110.00	87.30	0.04707	-60.9	398.7	1.31507
107.00	99.27	0.04924	-59.8	404.1	1.53735
104.30	101.60	0.05129	-58.2	410.0	1.61409
102.00	103.69	0.05312	-55.5	417.9	1.68446
100.00	109.51	0.05483	-54.1	423.0	1.81464
97.50	113.38	0.05710	-54.1	426.1	1.92693
95.10	114.34	0.05935	-54.5	428.3	1.99230
92.90	113.42	0.06144	-55.3	429.6	2.02308
90.60	109.49	0.06361	-55.9	431.5	2.00257
88.30	105.54	0.06575	-56.5	433.4	1.98054
86.00	101.44	0.06787	-57.1	435.4	1.95443
83.80	103.49	0.06998	-57.8	437.4	2.04632
81.70	112.05	0.07223	-58.2	439.7	2.27249
79.60	121.20	0.07472	-58.4	442.5	2.52306
77.80	142.39	0.07729	-58.7	444.9	3.03269
75.80	150.78	0.08039	-58.9	447.8	3.29604
73.70	136.65	0.08342	-58.0	453.3	3.07221
71.90	130.48	0.08597	-57.3	457.9	3.00698
69.90	141.71	0.08913	-56.7	462.9	3.35920
68.10	159.30	0.09241	-56.1	467.7	3.87612
66.30	168.07	0.09596	-55.9	471.8	4.20037
64.60	169.73	0.09944	-55.5	476.2	4.35372
62.90	156.92	0.10275	-55.1	480.7	4.13379
61.10	149.90	0.10618	-54.7	485.6	4.06516
59.40	143.18	0.10937	-54.3	490.4	3.99397
57.80	142.83	0.11245	-53.7	495.6	4.09460
56.10	152.97	0.11606	-53.7	499.8	4.51815
54.40	155.06	0.11983	-53.7	504.3	4.72318
52.80	158.08	0.12355	-53.3	509.5	4.96095

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
51.20	164.92	0.12756	-51.4	518.4	5.33728
49.80	169.97	0.13128	-50.0	525.9	5.65534
48.30	170.06	0.13539	-50.3	529.7	5.83400
46.90	170.00	0.13933	-50.9	532.8	6.00612
45.40	170.09	0.14370	-51.4	536.5	6.20778
44.00	170.93	0.14793	-51.8	540.4	6.43694
42.60	173.96	0.15237	-52.3	544.0	6.76636
41.30	178.33	0.15673	-52.9	547.5	7.15490
40.00	183.91	0.16138	-52.2	554.4	7.61849
38.60	187.38	0.16665	-50.0	565.6	8.04389
37.30	186.74	0.17170	-49.3	573.0	8.29572
36.00	182.83	0.17682	-50.5	575.6	8.41542
34.60	178.85	0.18242	-51.6	579.3	8.56505
33.30	174.63	0.18770	-51.6	585.7	8.68948
32.00	171.43	0.19309	-51.4	592.9	8.87700
30.80	167.71	0.19815	-51.4	599.4	9.02253
29.40	164.68	0.20420	-51.0	608.4	9.28148
28.10	161.35	0.20996	-50.7	617.3	9.51448
26.80	161.38	0.21600	-50.5	626.2	9.97790
25.50	161.84	0.22235	-50.1	636.2	10.51612
24.20	159.38	0.22893	-50.0	646.3	10.91264
23.20	157.68	0.23419	-49.6	655.2	11.26188
22.10	155.15	0.24014	-48.9	666.4	11.63260
21.20	150.05	0.24506	-48.7	674.9	11.72758
20.35	146.64	0.24980	-48.9	682.3	11.94042
19.55	144.54	0.25438	-49.6	688.0	12.25039
18.80	139.31	0.25868	-50.3	693.6	12.27829
18.10	133.65	0.26268	-50.7	700.0	12.23484
17.40	128.65	0.26669	-50.1	709.6	12.25134
16.86	121.89	0.26973	-49.6	717.8	11.97958
16.30	118.30	0.27288	-48.9	727.0	12.02556
15.75	114.86	0.27599	-48.4	735.9	12.08439
15.25	112.00	0.27885	-48.2	743.2	12.16958
14.70	111.15	0.28207	-48.0	751.7	12.52936
14.30	111.04	0.28449	-47.4	759.9	12.86647
13.85	109.94	0.28726	-46.4	770.3	13.15309
13.40	108.67	0.29010	-45.4	780.9	13.43751
13.00	107.82	0.29268	-44.3	791.6	13.74288
12.60	106.97	0.29532	-43.3	802.0	14.06764
12.25	106.55	0.29769	-42.1	812.8	14.41222
11.90	105.28	0.30010	-40.9	823.9	14.65899
11.56	105.33	0.30251	-40.0	833.9	15.09805
11.20	105.62	0.30515	-39.1	844.6	15.62661
10.92	108.18	0.30731	-38.0	855.0	16.41467
10.60	109.51	0.30988	-36.8	866.4	17.11873
10.32	106.96	0.31214	-36.1	875.7	17.17307
10.00	104.27	0.31473	-35.8	884.7	17.27677
9.70	101.14	0.31717	-35.4	894.0	17.27686
9.50	100.21	0.31881	-35.4	899.3	17.47810
9.30	100.05	0.32049	-35.4	904.8	17.82532
9.13	99.88	0.32195	-35.8	908.0	18.12786
9.00	99.20	0.32307	-36.0	911.2	18.26411
8.87	97.48	0.32419	-35.3	917.6	18.20988
8.77	95.32	0.32505	-34.6	923.3	18.01054
8.70	91.47	0.32562	-34.4	925.9	17.42225

Table 25 (continued)

WASHINGTON,D.C. 3/28/70 1436Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
8.62	89.12	0.32627	-34.4	928.4	17.13223
8.57	88.23	0.32668	-34.3	930.5	17.05942
8.53	87.90	0.32700	-34.0	932.8	17.07454
8.51	87.73	0.32717	-34.0	933.4	17.08164

Table 26

WASHINGTON,D.C. 4/16/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1004.00	9.5	1.7	4.24494	282.4		
1002.00	9.5	1.1	4.08393	282.5	0.00849885	0.00849885
989.00	9.5	0.5	3.97613	283.6	0.05345963	0.06195848
970.00	9.5	-1.0	3.61838	285.2	0.07362032	0.13557880
953.00	9.5	-21.1	0.60357	286.6	0.03661898	0.17219778
936.00	9.5	-15.6	1.03847	288.1	0.01424220	0.18643998
920.00	8.6	-2.0	3.51150	288.6	0.03714260	0.22358258
903.00	8.0	-6.8	2.37042	289.5	0.05101658	0.27459917
888.00	7.1	-4.8	2.88142	289.9	0.04019264	0.31479180
871.00	6.7	-4.8	2.93793	291.1	0.05047394	0.36526575
856.00	6.5	-11.2	1.70774	292.4	0.03555355	0.40081930
852.50	6.8	-30.8	0.25592	293.0	0.00350652	0.40432582
842.00	6.7	-32.9	0.20769	293.9	0.00248361	0.40680943
831.00	6.5	-34.8	0.17083	294.9	0.00212436	0.40893379
820.00	6.2	-36.0	0.15156	295.7	0.00180934	0.41074314
810.00	6.1	-37.3	0.13320	296.6	0.00145286	0.41219600
800.00	5.8	-39.9	0.10058	297.3	0.00119273	0.41338873
790.00	5.5	-32.6	0.22782	298.1	0.00167547	0.41506420
780.00	5.4	-21.4	0.72247	299.0	0.00484842	0.41991262
770.00	5.4	-18.4	0.97026	300.1	0.00863641	0.42854904
760.00	4.8	-13.6	1.53551	300.6	0.01278457	0.44133361
750.00	4.3	-13.0	1.64330	301.3	0.01621846	0.45755207
740.00	3.9	-12.7	1.71239	302.0	0.01712090	0.47467297
731.00	3.2	-15.1	1.39971	302.2	0.01429027	0.48896324
722.00	2.5	-18.4	1.03487	302.5	0.01117922	0.50014246
713.00	1.5	-20.5	0.85954	302.5	0.00869882	0.50884128
704.00	0.7	-20.5	0.87054	302.7	0.00794423	0.51678551
696.00	-0.1	-20.9	0.84417	302.8	0.00699882	0.52378433
686.00	-1.1	-21.6	0.80488	303.0	0.00841350	0.53219783
677.50	-2.0	-21.6	0.81499	303.0	0.00702492	0.53922275
669.00	-3.0	-21.6	0.82536	303.1	0.00711374	0.54633649
660.00	-3.6	-20.0	0.96932	303.5	0.00824086	0.55457735
650.00	-4.2	-20.7	0.92321	304.2	0.00965575	0.56423310
641.00	-4.8	-23.4	0.72039	304.7	0.00754712	0.57178022
631.00	-5.1	-25.6	0.58565	305.8	0.00666346	0.57844368
623.00	-5.5	-24.7	0.64959	306.4	0.00504180	0.58348548
614.00	-5.9	-26.5	0.55104	307.3	0.00551312	0.58899860
605.50	-6.4	-28.0	0.47958	307.9	0.00446955	0.59346815
597.00	-7.0	-35.2	0.22840	308.4	0.00307034	0.59653848
588.00	-7.8	-36.4	0.20329	308.8	0.00198224	0.59852072
579.00	-8.7	-35.8	0.22038	309.1	0.00194539	0.60046612
570.00	-9.2	-36.4	0.20971	309.9	0.00197488	0.60244100
562.00	-10.2	-36.5	0.20996	310.0	0.00171292	0.60415392
554.00	-11.1	-37.0	0.20233	310.2	0.00168282	0.60583674
546.00	-12.0	-37.0	0.20530	310.4	0.00166379	0.60750054
538.00	-12.6	-36.0	0.23103	311.0	0.00178095	0.60928148
530.00	-13.5	-40.8	0.13823	311.3	0.00150722	0.61078870
522.00	-14.3	-40.6	0.14366	311.7	0.00115058	0.61193929
514.00	-15.1	-37.2	0.21261	312.0	0.00145414	0.61339343
507.00	-16.1	-36.0	0.24517	312.1	0.00163490	0.61502833
498.00	-16.9	-37.2	0.21944	312.8	0.00213339	0.61716172
491.00	-17.9	-40.4	0.15453	312.8	0.00133559	0.61849730
483.00	-18.8	-39.2	0.18113	313.2	0.00137003	0.61986734
476.00	-19.5	-37.8	0.21558	313.6	0.00141684	0.62128417
468.00	-20.6	-37.8	0.21927	313.7	0.00177489	0.62305906

Table 26 (continued)

WASHINGTON,D.C. 4/16/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
461.00	-21.6	-38.0	0.21712	313.8	0.00155853	0.62461759
454.00	-22.6	-38.8	0.20228	314.0	0.00149785	0.62611544
447.00	-23.9	-41.3	0.15472	313.8	0.00127498	0.62739042
439.00	-24.4	-44.4	0.10926	314.8	0.00107746	0.62846788
432.00	-25.2	-48.4	0.06894	315.1	0.00063644	0.62910432
425.00	-25.9	-52.8	0.04057	315.8	0.00039112	0.62949544
419.00	-26.6	-54.4	0.03340	316.1	0.00022645	0.62972188
412.00	-27.5	-54.3	0.03462	316.5	0.00024292	0.62996480
405.50	-28.7	-54.3	0.03517	316.4	0.00023144	0.63019624
399.00	-29.7	-54.2	0.03608	316.5	0.00023630	0.63043254
392.50	-30.9	-54.3	0.03634	316.5	0.00024017	0.63067271
386.00	-31.8	-54.4	0.03626	316.8	0.00024074	0.63091345
380.00	-32.7	-54.7	0.03580	317.0	0.00022059	0.63113404
374.00	-33.4	-54.9	0.03503	317.6	0.00021684	0.63135088
367.50	-34.3	-55.2	0.03466	317.9	0.00023112	0.63158200
361.00	-35.0	-55.6	0.03335	318.7	0.00022554	0.63180754
355.00	-35.9	-56.2	0.03117	318.9	0.00019751	0.63200505
349.00	-37.2	-57.0	0.02887	318.8	0.00018381	0.63218886
343.40	-38.1	-57.5	0.02748	319.0	0.00016101	0.63234987
338.00	-39.0	-57.7	0.02689	319.2	0.00014981	0.63249968
332.00	-39.9	-58.1	0.02613	319.7	0.00016231	0.63266199
326.00	-40.6	-58.4	0.02563	320.4	0.00015845	0.63282043
321.00	-41.6	-58.7	0.02484	320.4	0.00012875	0.63294918
315.00	-42.5	-58.2	0.02728	320.9	0.00015955	0.63310874
309.00	-43.4	-56.9	0.03292	321.4	0.00018428	0.63329302
304.00	-44.3	-55.5	0.04035	321.6	0.00018692	0.63347994
298.00	-45.6	-53.8	0.05065	321.6	0.00027860	0.63375853
293.00	-46.5	-52.8	0.05885	321.8	0.00027935	0.63403788
287.30	-47.8	-54.0	0.05156	321.8	0.00032108	0.63435896
282.00	-48.5	-55.9	0.04112	322.5	0.00025060	0.63460956
277.00	-49.5	-57.9	0.03221	322.7	0.00018706	0.63479663
272.00	-50.6	-58.1	0.03189	322.9	0.00016352	0.63496014
267.00	-51.3	-59.5	0.02694	323.6	0.00015007	0.63511022
262.00	-51.6	-62.4	0.01845	324.8	0.00011579	0.63522601
257.00	-52.5	-62.0	0.01992	325.3	0.00009790	0.63532391
252.00	-53.3	-61.7	0.02110	326.0	0.00010465	0.63542856
247.00	-54.6	-61.7	0.02153	325.9	0.00010876	0.63553732
242.50	-55.2	-62.0	0.02111	326.8	0.00009790	0.63563522
238.00	-56.0	-62.5	0.02012	327.3	0.00009467	0.63572989
233.00	-56.8	-63.4	0.01814	328.1	0.00009762	0.63582751
228.50	-57.2	-64.1	0.01663	329.3	0.00007984	0.63590735
224.00	-57.8	-64.8	0.01554	330.2	0.00007387	0.63598121
219.50	-58.0	-65.3	0.01466	331.8	0.00006933	0.63605055
215.00	-58.2	-65.6	0.01438	333.4	0.00006668	0.63611723
211.00	-58.9	-65.7	0.01451	334.2	0.00005897	0.63617620
206.00	-59.5	-65.7	0.01486	335.5	0.00007494	0.63625114
202.00	-59.3	-65.8	0.01486	337.7	0.00006066	0.63631181
197.50	-58.4	-67.4	0.01205	341.3	0.00006180	0.63637360
193.40	-57.8	-68.5	0.01054	344.4	0.00004727	0.63642087
189.00	-57.6	-69.6	0.00911	347.0	0.00004412	0.63646499
185.00	-57.6	-70.6	0.00808	349.1	0.00003509	0.63650008
181.00	-57.6	-71.4	0.00723	351.3	0.00003126	0.63653134
177.00	-57.6	-72.8	0.00602	353.5	0.00002705	0.63655840
173.00	-57.2	-75.1	0.00434	356.5	0.00002115	0.63657954
169.50	-56.8	-75.9	0.00390	359.3	0.00001472	0.63659426

Table 26 (continued)

WASHINGTON,D.C. 4/16/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
166.00	-56.6	-76.4	0.00368	361.8	0.00001355	0.63660781
162.50	-56.4	-77.0	0.00343	364.3	0.00001270	0.63662051
159.00	-56.6	-77.5	0.00319	366.3	0.00001182	0.63663233
155.50	-57.0	-78.2	0.00296	367.9	0.00001097	0.63664330
152.20	-57.2	-78.6	0.00281	369.8	0.00000972	0.63665302
148.50	-56.6	-78.8	0.00280	373.5	0.00001060	0.63666362
145.00	-56.0	-79.0	0.00275	377.1	0.00000991	0.63667353
142.00	-56.2	-79.3	0.00268	379.0	0.00000831	0.63668184
139.00	-56.2	-79.3	0.00274	381.3	0.00000831	0.63669015
135.60	-56.4	-79.4	0.00277	383.7	0.00000956	0.63669971
132.00	-56.6	-79.6	0.00276	386.3	0.00001016	0.63670987
129.50	-57.0	-79.9	0.00269	387.7	0.00000695	0.63671683
128.00	-57.6	-79.9	0.00272	387.8	0.00000414	0.63672097
123.80	-58.7	-79.9	0.00281	389.6	0.00001187	0.63673283
120.00	-59.1	-80.1	0.00277	392.3	0.00001084	0.63674367
117.50	-59.1	-80.3	0.00275	394.7	0.00000704	0.63675071
115.00	-59.8	-80.5	0.00272	395.9	0.00000698	0.63675769
112.20	-60.4	-80.5	0.00279	397.4	0.00000787	0.63676556
109.50	-60.6	-80.5	0.00286	399.8	0.00000778	0.63677334
107.00	-60.9	-80.6	0.00288	402.0	0.00000732	0.63678066
104.00	-61.3	-80.6	0.00296	404.4	0.00000894	0.63678960
101.80	-61.6	-81.0	0.00284	406.4	0.00000651	0.63679611
99.50	-62.0	-81.1	0.00286	408.2	0.00000669	0.63680280
97.20	-62.0	-81.0	0.00298	410.9	0.00000685	0.63680965
94.90	-61.8	-81.2	0.00295	414.2	0.00000696	0.63681661
92.50	-62.3	-81.1	0.00308	416.3	0.00000738	0.63682399
90.00	-63.3	-81.3	0.00306	417.6	0.00000783	0.63683183
87.90	-64.3	-82.1	0.00275	418.5	0.00000623	0.63683805
85.80	-65.3	-82.3	0.00272	419.3	0.00000586	0.63684392
83.60	-65.6	-82.4	0.00275	421.9	0.00000614	0.63685006
81.40	-64.3	-82.5	0.00277	427.8	0.00000620	0.63685626
79.20	-63.5	-82.3	0.00295	432.7	0.00000643	0.63686268
77.20	-62.5	-82.2	0.00308	437.9	0.00000615	0.63686884
75.20	-61.6	-82.2	0.00316	443.2	0.00000637	0.63687520
73.30	-60.9	-82.4	0.00313	447.9	0.00000610	0.63688130
71.40	-60.4	-83.2	0.00280	452.2	0.00000575	0.63688706
69.60	-60.0	-83.9	0.00253	456.5	0.00000490	0.63689196
67.70	-60.0	-84.1	0.00251	460.1	0.00000489	0.63689684
65.80	-60.0	-84.4	0.00249	463.9	0.00000484	0.63690168
64.00	-60.4	-84.6	0.00246	466.6	0.00000454	0.63690623
62.10	-60.9	-85.2	0.00226	469.6	0.00000457	0.63691080
60.60	-61.1	-85.8	0.00209	472.4	0.00000333	0.63691413
58.90	-61.3	-86.2	0.00202	475.7	0.00000357	0.63691770
57.20	-61.1	-86.3	0.00204	480.2	0.00000353	0.63692123
55.40	-60.6	-86.3	0.00211	485.7	0.00000381	0.63692504
53.80	-60.6	-86.2	0.00222	489.8	0.00000353	0.63692858
52.10	-60.6	-85.8	0.00243	494.3	0.00000403	0.63693261
50.60	-60.6	-85.7	0.00256	498.4	0.00000382	0.63693643
49.00	-60.2	-85.5	0.00275	504.1	0.00000433	0.63694077

Table 27

WASHINGTON,D.C. 4/16/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1004.00					
989.00	37.34	0.00039	9.5	283.6	0.06256
970.00	47.77	0.00112	9.5	285.2	0.08161
953.00	59.46	0.00195	9.5	286.6	0.10339
936.00	57.10	0.00276	9.5	288.1	0.10108
920.00	59.42	0.00357	8.6	288.6	0.10701
903.00	60.83	0.00446	8.6	290.1	0.11163
888.00	61.92	0.00528	7.1	289.9	0.11554
871.00	63.31	0.00625	6.7	291.1	0.12044
856.00	63.31	0.00712	6.5	292.4	0.12255
839.00	61.25	0.00809	6.2	293.8	0.12097
823.00	59.05	0.00898	6.1	295.2	0.11888
808.00	56.88	0.00981	5.9	296.6	0.11665
794.00	55.26	0.01057	5.8	298.0	0.11532
779.00	54.05	0.01139	4.9	298.6	0.11497
764.00	49.67	0.01215	3.8	299.1	0.10773
750.00	45.34	0.01281	2.9	299.7	0.10018
737.00	43.18	0.01341	1.9	300.2	0.09708
720.00	43.72	0.01421	1.4	301.5	0.10062
707.00	44.66	0.01486	0.5	302.2	0.10468
694.00	38.77	0.01542	-0.3	302.9	0.09256
680.00	34.28	0.01598	-1.4	303.5	0.08352
667.00	38.66	0.01656	-2.4	303.9	0.09603
653.00	37.56	0.01719	-3.4	304.7	0.09532
641.00	39.04	0.01777	-4.3	305.3	0.10091
628.00	40.02	0.01841	-5.1	306.2	0.10560
615.00	38.66	0.01905	-5.9	307.1	0.10415
602.50	38.63	0.01968	-6.7	308.0	0.10624
592.00	38.80	0.02022	-7.4	308.7	0.10860
579.00	35.46	0.02084	-8.1	309.9	0.10149
567.00	31.76	0.02136	-9.6	309.9	0.09281
555.00	32.82	0.02192	-11.3	309.9	0.09799
544.00	36.96	0.02250	-12.5	310.2	0.11258
532.00	38.95	0.02319	-13.7	310.8	0.12131
520.00	38.45	0.02388	-14.7	311.6	0.12252
510.00	37.35	0.02445	-15.5	312.3	0.12135
500.00	37.33	0.02504	-16.6	312.7	0.12370
490.00	39.31	0.02566	-17.6	313.3	0.13292
479.00	38.70	0.02636	-18.9	313.8	0.13387
468.00	36.70	0.02703	-20.1	314.3	0.12994
458.50	34.85	0.02759	-21.5	314.5	0.12596
449.00	31.04	0.02811	-22.7	314.8	0.11454
439.00	30.11	0.02864	-23.1	316.4	0.11366
428.00	30.29	0.02925	-25.6	315.5	0.11726
418.00	30.77	0.02982	-27.0	315.8	0.12197
408.00	30.68	0.03041	-28.0	316.7	0.12460
398.00	31.42	0.03103	-29.3	317.3	0.13079
390.00	36.06	0.03160	-30.6	317.4	0.15320
380.00	38.52	0.03239	-31.5	318.6	0.16798
370.00	42.68	0.03329	-32.8	319.3	0.19115
361.00	37.78	0.03403	-34.3	319.6	0.17342
353.00	36.28	0.03467	-35.8	319.6	0.17028
343.00	36.25	0.03549	-37.3	320.2	0.17513
333.00	34.68	0.03630	-38.8	320.8	0.17254
324.00	33.47	0.03703	-40.4	321.1	0.17119
315.00	30.68	0.03771	-42.0	321.5	0.16140

Table 27 (continued)

WASHINGTON,D.C. 4/16/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
306.00	26.82	0.03832	-43.7	321.8	0.14524
298.00	23.20	0.03881	-45.3	322.1	0.12900
288.50	21.66	0.03936	-47.2	322.3	0.12443
280.00	22.19	0.03989	-48.8	322.7	0.13130
272.50	21.64	0.04035	-50.7	322.5	0.13157
265.00	22.09	0.04084	-51.6	323.8	0.13811
257.00	22.07	0.04137	-52.5	325.3	0.14232
249.00	19.96	0.04187	-53.6	326.6	0.13282
242.00	20.52	0.04233	-55.2	326.9	0.14053
234.00	24.23	0.04297	-56.4	328.3	0.17157
227.50	30.65	0.04366	-57.0	330.0	0.22324
220.00	37.00	0.04464	-57.4	332.6	0.27868
213.00	28.74	0.04537	-58.4	334.0	0.22357
206.00	36.44	0.04633	-58.9	336.5	0.29313
200.00	45.33	0.04739	-58.7	339.7	0.37559
193.00	50.88	0.04882	-58.4	343.5	0.43682
187.50	41.39	0.04976	-58.4	346.4	0.36577
182.00	36.42	0.05062	-58.4	349.4	0.33154
176.70	37.26	0.05149	-58.2	352.7	0.34945
171.00	37.24	0.05245	-58.2	356.0	0.36088
166.20	34.23	0.05322	-58.2	358.9	0.34131
161.00	30.92	0.05400	-58.2	362.2	0.31822
155.50	26.93	0.05474	-57.8	366.5	0.28696
150.00	23.50	0.05541	-57.6	370.7	0.25960
146.00	22.91	0.05590	-57.4	373.9	0.26001
142.00	27.01	0.05649	-57.0	377.6	0.31515
137.80	32.10	0.05725	-56.6	381.6	0.38603
133.00	37.93	0.05831	-56.8	385.1	0.47253
129.20	43.18	0.05930	-57.0	387.9	0.55379
125.00	48.80	0.06057	-57.6	390.5	0.64694
121.30	50.05	0.06176	-58.4	392.3	0.68372
117.00	42.44	0.06297	-58.9	395.6	0.60111
113.50	34.50	0.06380	-59.1	398.6	0.50366
109.50	29.20	0.06462	-59.3	402.3	0.44182
106.00	30.26	0.06540	-60.4	403.9	0.47299
102.00	36.31	0.06650	-61.3	406.7	0.58980
98.60	39.83	0.06757	-62.3	408.8	0.66935
95.00	41.38	0.06878	-63.5	410.8	0.72177
91.70	44.50	0.07003	-64.0	413.9	0.80417
88.20	52.07	0.07163	-64.0	418.6	0.97818
85.10	58.89	0.07329	-64.0	422.9	1.14667
82.00	57.30	0.07497	-63.5	428.4	1.15779
78.90	63.02	0.07689	-62.8	434.7	1.32350
76.30	71.82	0.07879	-61.8	440.8	1.55962
74.00	78.22	0.08068	-60.9	446.7	1.75156
71.60	82.42	0.08282	-60.0	452.8	1.90737
69.80	83.90	0.08451	-59.3	457.5	1.99162
68.00	87.95	0.08632	-58.9	461.9	2.14307
66.30	93.36	0.08819	-59.1	464.8	2.33321
64.70	97.69	0.09007	-59.3	467.6	2.50180
62.80	108.11	0.09262	-58.9	472.5	2.85252
61.20	119.77	0.09506	-58.4	477.0	3.24267
59.70	134.01	0.09768	-58.7	479.9	3.71955
58.20	146.16	0.10062	-59.1	482.4	4.16117
56.60	155.48	0.10404	-59.1	486.3	4.55174

Table 27 (continued)

WASHINGTON,D.C. 4/16/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
55.10	154.88	0.10733	-60.0	488.0	4.65763
53.70	149.97	0.11037	-60.6	490.0	4.62769
52.40	148.50	0.11325	-61.1	492.4	4.69576
51.00	149.42	0.11644	-61.3	495.7	4.85461
49.70	153.12	0.11956	-61.3	499.4	5.10492
48.40	152.51	0.12275	-61.1	503.7	5.22139
47.10	162.76	0.12625	-60.6	508.8	5.72594
46.00	175.44	0.12953	-59.8	514.4	6.31976
44.80	184.12	0.13337	-59.1	519.9	6.80979
43.50	187.15	0.13772	-58.4	525.8	7.12889
42.40	183.73	0.14144	-57.6	531.8	7.18008
41.30	179.53	0.14516	-57.2	536.8	7.20295
40.20	179.40	0.14899	-57.0	541.5	7.39459
39.15	170.48	0.15255	-57.6	544.0	7.21560
38.10	163.39	0.15606	-58.0	547.2	7.10617
37.20	165.64	0.15918	-58.2	550.4	7.37803
36.20	162.37	0.16268	-58.0	555.3	7.43233
35.30	162.87	0.16591	-57.0	562.0	7.64499
34.40	172.61	0.16943	-55.8	569.3	8.31428
33.50	177.58	0.17315	-55.0	575.7	8.78381
32.60	180.40	0.17703	-55.6	578.7	9.16920
31.70	172.96	0.18085	-55.8	582.8	9.04090
30.90	171.57	0.18431	-55.4	588.1	9.20059
30.00	170.09	0.18828	-55.2	593.6	9.39443
29.30	167.78	0.19141	-54.8	598.7	9.48843
28.50	166.77	0.19506	-54.6	604.0	9.69621
27.80	163.57	0.19827	-53.6	611.0	9.74931
27.10	160.25	0.20149	-53.1	617.0	9.79861
26.30	154.75	0.20516	-52.7	623.4	9.74968
25.70	151.91	0.20792	-52.3	628.5	9.79442
25.00	149.49	0.21118	-52.0	634.6	9.90797
24.30	146.73	0.21447	-51.6	640.8	10.00528
23.70	144.35	0.21732	-51.4	645.9	10.09238
23.10	141.13	0.22018	-51.3	651.2	10.12378
22.50	138.22	0.22305	-51.3	656.1	10.17905
22.00	137.07	0.22548	-51.1	660.8	10.32401
21.40	137.61	0.22849	-50.2	668.7	10.65498
20.80	140.52	0.23164	-49.5	676.2	11.19441
20.20	144.64	0.23499	-49.2	683.0	11.86464
19.70	146.07	0.23788	-48.8	688.9	12.28613
19.20	141.43	0.24075	-48.3	695.5	12.20582
18.75	134.76	0.24327	-48.2	700.8	11.90889
18.30	130.64	0.24578	-48.0	706.2	11.82942
17.80	128.88	0.24860	-47.8	712.3	11.99772
17.30	131.22	0.25155	-47.0	720.8	12.56812
16.86	133.64	0.25427	-45.9	729.7	13.13373
16.40	132.91	0.25717	-45.1	738.1	13.42887
16.00	131.72	0.25974	-44.8	744.3	13.64098
15.60	132.61	0.26239	-44.6	750.2	14.08505
15.10	133.09	0.26581	-43.6	760.8	14.60446
14.70	133.89	0.26865	-42.8	769.2	15.09196
14.35	133.49	0.27119	-42.0	777.0	15.41391
14.00	130.33	0.27373	-41.7	783.5	15.42581
13.63	124.17	0.27636	-41.2	791.6	15.09593
13.25	120.68	0.27905	-40.1	801.5	15.09236

Table 27 (continued)

WASHINGTON,D.C. 4/16/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
12.93	122.21	0.28141	-40.0	807.6	15.66165
12.60	121.02	0.28388	-41.5	808.5	15.91555
12.25	115.91	0.28646	-42.2	812.4	15.67891
11.90	115.05	0.28909	-41.2	822.9	16.01936
11.64	112.45	0.29105	-40.1	831.7	16.00775
11.40	109.62	0.29285	-39.0	840.8	15.93379
11.13	107.19	0.29488	-38.1	849.6	15.95747
10.90	104.97	0.29661	-37.2	858.3	15.95804
10.68	104.38	0.29829	-35.9	867.8	16.19436
10.50	103.51	0.29968	-35.5	873.6	16.33564
10.32	101.79	0.30107	-35.2	878.9	16.34314
10.15	101.19	0.30240	-35.0	884.1	16.51965
10.00	98.37	0.30356	-34.8	888.4	16.29997
9.90	94.74	0.30431	-34.7	891.4	15.85627
9.79	90.55	0.30511	-34.4	895.3	15.32590
9.69	95.08	0.30588	-34.3	898.4	16.25914
9.60	99.42	0.30661	-32.8	906.3	17.16032
9.53	104.66	0.30721	-31.3	914.2	18.19767
9.46	105.09	0.30783	-30.6	918.6	18.40721
9.40	102.47	0.30834	-30.2	921.7	18.06287
9.34	99.64	0.30885	-30.1	923.9	17.67745
9.28	95.69	0.30933	-29.4	928.1	17.08522
9.24	86.53	0.30963	-28.9	931.2	15.51822
9.22	87.95	0.30978	-28.7	932.7	15.80546
9.21	84.01	0.30985	-28.4	934.0	15.11416

Table 28

WASHINGTON,D.C. 5/5/70 1520Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
997.00	15.5	5.0	5.41445	289.0		
979.00	14.7	5.9	5.87383	289.6	0.10366787	0.10366787
963.00	13.9	5.0	5.60734	290.2	0.09372381	0.19739168
946.00	13.1	3.3	5.06145	290.8	0.09253537	0.28992705
929.00	12.6	3.3	5.15483	291.9	0.08861058	0.37853763
918.00	11.7	0.2	4.18276	291.9	0.05240484	0.43094248
905.00	10.9	-1.8	3.62459	292.3	0.05178340	0.48272587
891.00	9.8	-0.5	4.12105	292.5	0.05532597	0.53805184
878.50	9.2	-1.8	3.73458	293.0	0.05009967	0.58815151
867.00	8.5	-1.8	3.78442	293.3	0.04411654	0.63226805
854.00	8.0	-2.5	3.63926	294.1	0.04923865	0.68150670
842.00	7.4	-10.0	1.92681	294.7	0.03407795	0.71558465
831.00	6.7	-10.4	1.87547	295.0	0.02133929	0.73692395
820.00	6.4	-10.9	1.82703	295.8	0.02077931	0.75770326
809.00	5.6	-12.2	1.65104	296.2	0.01951977	0.77722303
798.00	4.8	-13.0	1.55505	296.5	0.01799334	0.79521638
788.00	3.9	-13.0	1.57483	296.6	0.01596877	0.81118514
778.00	3.8	-17.9	1.00537	297.5	0.01316431	0.82434945
768.00	3.9	-28.0	0.37765	298.8	0.00705626	0.83140571
758.00	3.2	-27.6	0.39903	299.1	0.00396270	0.83536841
747.50	2.5	-26.1	0.47103	299.6	0.00466106	0.84002947
737.00	1.5	-25.0	0.53532	299.7	0.00539114	0.84542061
727.50	1.0	-25.7	0.50624	300.2	0.00504838	0.85046899
718.00	0.6	-30.2	0.32402	300.9	0.00402424	0.85449323
708.50	0.0	-31.4	0.28768	301.4	0.00296489	0.85745812
699.00	-0.5	-34.1	0.21981	302.0	0.00245976	0.85991788
689.00	-1.1	-39.3	0.12566	302.7	0.00176259	0.86168047
680.00	-1.5	-40.8	0.10765	303.3	0.00107133	0.86275179
671.50	-2.0	-41.7	0.09785	303.8	0.00089121	0.86364301
663.00	-2.7	-41.9	0.09651	304.2	0.00084291	0.86448592
655.00	-3.5	-41.8	0.09899	304.4	0.00079798	0.86528390
648.00	-4.3	-40.4	0.11773	304.4	0.00077400	0.86605790
640.00	-4.8	-35.7	0.20037	304.9	0.00129834	0.86735625
631.00	-5.6	-34.2	0.23943	305.2	0.00201949	0.86937573
624.00	-6.3	-33.6	0.25915	305.3	0.00178063	0.87115637
616.00	-7.2	-32.8	0.28638	305.4	0.00222665	0.87338302
608.00	-8.1	-31.6	0.32914	305.5	0.00251233	0.87589535
598.00	-9.0	-31.2	0.34725	305.9	0.00345096	0.87934631
590.00	-10.0	-30.5	0.37951	305.9	0.00296637	0.88231268
582.00	-10.9	-29.2	0.44104	306.1	0.00334917	0.88566185
574.00	-11.8	-29.0	0.45624	306.3	0.00366238	0.88932423
567.00	-12.4	-30.7	0.38747	306.6	0.00301327	0.89233750
558.50	-13.2	-33.6	0.28955	307.1	0.00293608	0.89527359
550.00	-13.8	-37.0	0.20250	307.7	0.00213390	0.89740749
542.00	-14.6	-38.8	0.16924	308.1	0.00151730	0.89892479
534.00	-15.4	-37.8	0.19045	308.3	0.00146810	0.90039289
526.50	-16.2	-41.2	0.13168	308.7	0.00123264	0.90162553
519.00	-17.3	-41.4	0.13180	308.6	0.00100823	0.90263376
511.00	-18.4	-41.7	0.12859	308.6	0.00106283	0.90369659
503.50	-19.4	-42.1	0.12542	308.7	0.00097201	0.90466860
495.00	-20.5	-43.0	0.11496	308.9	0.00104248	0.90571108
487.00	-21.5	-47.4	0.06938	309.1	0.00075241	0.90646349
480.00	-22.3	-48.3	0.06284	309.4	0.00047221	0.90693570
472.00	-23.3	-47.6	0.06917	309.7	0.00053880	0.90747450
464.50	-24.4	-48.7	0.06209	309.7	0.00050227	0.90797678

Table 28 (continued)

WASHINGTON,D.C. 5/5/70 1520Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
457.00	-25.4	-49.4	0.05776	309.9	0.00045862	0.90843540
450.00	-26.2	-49.2	0.05997	310.3	0.00042047	0.90885587
443.00	-27.2	-47.6	0.07370	310.4	0.00047738	0.90933325
436.00	-28.2	-48.2	0.06996	310.5	0.00051307	0.90984633
429.00	-29.1	-49.6	0.06020	310.8	0.00046486	0.91031119
423.00	-30.0	-51.1	0.05030	310.9	0.00033828	0.91064947
417.00	-31.1	-51.5	0.04892	310.8	0.00030374	0.91095321
410.00	-31.9	-51.7	0.04821	311.3	0.00034688	0.91130009
403.00	-32.5	-51.7	0.04905	312.0	0.00034734	0.91164743
397.50	-33.6	-51.8	0.04921	311.8	0.00027571	0.91192314
391.00	-34.6	-53.0	0.04327	312.0	0.00030669	0.91222983
385.00	-35.1	-53.8	0.03969	312.7	0.00025396	0.91248378
379.00	-35.9	-54.8	0.03538	313.0	0.00022980	0.91271358
372.80	-36.8	-54.4	0.03781	313.4	0.00023152	0.91294510
366.00	-37.9	-54.2	0.03930	313.5	0.00026752	0.91321262
360.00	-38.6	-52.6	0.04897	314.0	0.00027021	0.91348283
354.00	-39.6	-51.2	0.05948	314.2	0.00033199	0.91381482
349.00	-40.5	-52.5	0.05157	314.3	0.00028328	0.91409810
343.00	-41.1	-54.6	0.03988	315.0	0.00027995	0.91437806
337.00	-41.9	-56.8	0.03050	315.6	0.00021546	0.91459351
331.00	-42.2	-58.0	0.02660	316.8	0.00017481	0.91476833
325.00	-42.8	-58.8	0.02438	317.6	0.00015609	0.91492442
320.00	-43.5	-57.5	0.02916	318.0	0.00013658	0.91506100
314.00	-44.2	-58.1	0.02751	318.8	0.00017347	0.91523447
308.00	-45.0	-58.7	0.02598	319.5	0.00016374	0.91539822
302.50	-45.6	-60.5	0.02066	320.2	0.00013088	0.91552909
297.00	-46.1	-61.0	0.01970	321.2	0.00011326	0.91564235
292.00	-46.7	-61.6	0.01841	321.9	0.00009721	0.91573956
287.00	-47.6	-61.8	0.01838	322.3	0.00009384	0.91583339
281.00	-48.8	-62.1	0.01791	322.5	0.00011108	0.91594447
275.00	-49.3	-62.6	0.01715	323.7	0.00010731	0.91605178
270.00	-50.2	-62.9	0.01667	324.2	0.00008625	0.91613803
265.00	-50.5	-63.1	0.01667	325.4	0.00008503	0.91622306
260.00	-50.9	-62.5	0.01830	326.6	0.00008921	0.91631227
255.00	-51.6	-61.8	0.02068	327.4	0.00009946	0.91641174
250.00	-51.8	-62.3	0.01958	329.0	0.00010271	0.91651445
245.00	-52.2	-62.5	0.01943	330.3	0.00009950	0.91661395
240.50	-52.3	-63.7	0.01688	331.8	0.00008336	0.91669731
236.00	-52.7	-66.8	0.01095	333.0	0.00006390	0.91676121
231.50	-53.5	-67.0	0.01095	333.7	0.00005029	0.91681150
227.00	-53.7	-67.0	0.01107	335.3	0.00005055	0.91686206
222.70	-53.7	-67.8	0.01006	337.1	0.00004634	0.91690839
218.00	-53.5	-68.8	0.00889	339.5	0.00004543	0.91695383
214.00	-53.1	-67.4	0.01119	341.9	0.00004098	0.91699481
209.00	-52.9	-68.7	0.00945	344.5	0.00005267	0.91704747
205.00	-52.2	-70.5	0.00740	347.6	0.00003439	0.91708186
201.00	-51.2	-72.3	0.00569	351.0	0.00002670	0.91710856
196.30	-51.2	-72.7	0.00553	353.4	0.00002689	0.91713546
192.00	-51.4	-73.6	0.00488	355.3	0.00002284	0.91715830
188.00	-51.6	-74.5	0.00434	357.2	0.00001882	0.91717712
184.00	-51.8	-76.4	0.00332	359.1	0.00001564	0.91719276
180.00	-52.0	-76.9	0.00310	361.0	0.00001311	0.91720588
176.00	-52.3	-77.7	0.00279	362.7	0.00001202	0.91721790
172.00	-52.7	-78.6	0.00250	364.5	0.00001079	0.91722869
168.00	-52.2	-79.2	0.00229	367.9	0.00000978	0.91723847

Table 28 (continued)

WASHINGTON,D.C. 5/5/70 1520Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
164.50	-52.2	-79.3	0.00231	370.1	0.00000822	0.91724669
161.00	-52.9	-79.4	0.00233	371.1	0.00000829	0.91725497
157.40	-54.1	-79.4	0.00238	371.6	0.00000866	0.91726364
153.50	-54.4	-79.5	0.00241	373.6	0.00000955	0.91727319
150.50	-54.8	-79.6	0.00243	375.0	0.00000742	0.91728061
147.00	-55.4	-80.0	0.00231	376.5	0.00000846	0.91728907
143.60	-56.1	-80.2	0.00230	378.0	0.00000799	0.91729706
140.00	-56.5	-80.2	0.00236	380.0	0.00000856	0.91730563
137.00	-56.7	-80.7	0.00223	382.0	0.00000703	0.91731265
133.50	-56.9	-81.0	0.00217	384.5	0.00000786	0.91732052
130.50	-56.9	-81.1	0.00216	387.0	0.00000663	0.91732715
127.50	-56.9	-81.5	0.00207	389.6	0.00000648	0.91733363
124.50	-56.5	-81.6	0.00209	393.0	0.00000637	0.91733999
121.50	-56.3	-81.6	0.00214	396.1	0.00000648	0.91734647
118.70	-56.1	-81.8	0.00213	399.1	0.00000611	0.91735258
116.00	-56.1	-81.8	0.00218	401.8	0.00000595	0.91735853
113.00	-56.3	-81.8	0.00224	404.4	0.00000677	0.91736530
110.00	-56.5	-81.8	0.00230	407.1	0.00000695	0.91737225
107.20	-56.9	-81.8	0.00236	409.4	0.00000666	0.91737891
104.50	-56.9	-81.8	0.00242	412.3	0.00000659	0.91738550
101.80	-56.7	-81.8	0.00249	415.8	0.00000676	0.91739227
99.20	-56.3	-81.7	0.00259	419.7	0.00000673	0.91739900
96.60	-56.7	-81.8	0.00262	422.1	0.00000691	0.91740591
94.00	-56.9	-81.9	0.00262	425.0	0.00000695	0.91741286
91.60	-56.9	-82.0	0.00265	428.2	0.00000646	0.91741932
89.10	-56.9	-82.3	0.00261	431.6	0.00000672	0.91742604
86.90	-56.7	-82.4	0.00261	435.1	0.00000586	0.91743190
84.70	-56.7	-82.7	0.00256	438.3	0.00000580	0.91743770
82.40	-56.7	-83.1	0.00245	441.7	0.00000588	0.91744358
80.00	-56.7	-83.4	0.00242	445.5	0.00000596	0.91744954
77.70	-56.9	-83.6	0.00241	448.8	0.00000567	0.91745521
75.60	-56.9	-83.8	0.00237	452.3	0.00000513	0.91746034
73.30	-56.9	-83.6	0.00252	456.3	0.00000574	0.91746608
71.10	-57.1	-83.6	0.00264	459.9	0.00000579	0.91747187
69.10	-57.5	-83.6	0.00271	462.7	0.00000546	0.91747734
67.10	-57.5	-83.8	0.00267	466.6	0.00000550	0.91748283
65.10	-57.5	-84.0	0.00267	470.7	0.00000546	0.91748829
63.00	-57.1	-84.2	0.00268	476.0	0.00000574	0.91749403
61.20	-56.9	-84.3	0.00272	480.5	0.00000496	0.91749898
59.20	-55.4	-84.4	0.00277	488.3	0.00000559	0.91750458
57.40	-54.3	-84.4	0.00281	495.3	0.00000512	0.91750970
55.60	-54.4	-84.8	0.00272	499.4	0.00000508	0.91751478
53.80	-54.8	-85.2	0.00264	503.2	0.00000493	0.91751971
51.90	-55.2	-85.3	0.00270	507.4	0.00000517	0.91752488
50.30	-55.4	-85.4	0.00274	511.5	0.00000443	0.91752932
48.60	-55.0	-85.5	0.00274	517.5	0.00000475	0.91753407
47.00	-54.6	-85.8	0.00270	523.5	0.00000444	0.91753851
45.30	-54.1	-86.0	0.00271	530.4	0.00000469	0.91754320
43.60	-53.7	-86.1	0.00277	537.2	0.00000475	0.91754795
42.00	-52.9	-86.3	0.00278	544.9	0.00000453	0.91755248
40.40	-52.3	-86.4	0.00284	552.3	0.00000459	0.91755707
38.35	-52.2	-86.8	0.00279	561.1	0.00000589	0.91756296
36.40	-52.2	-86.9	0.00289	569.5	0.00000565	0.91756861
34.50	-52.0	-87.1	0.00295	578.8	0.00000566	0.91757427
32.70	-51.1	-87.3	0.00300	590.2	0.00000546	0.91757973

Table 28 (continued)

WASHINGTON,D.C. 5/5/70 1520Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
30.90	-50.3	-87.7	0.00295	601.7	0.00000547	0.91758520
30.20	-50.2	-88.1	0.00281	606.2	0.00000206	0.91758725
28.50	-49.6	-88.2	0.00292	617.7	0.00000497	0.91759222
26.90	-48.6	-88.3	0.00304	630.9	0.00000486	0.91759708
26.35	-47.6	-88.4	0.00304	637.5	0.00000171	0.91759879
24.80	-47.4	-88.5	0.00317	649.2	0.00000491	0.91760370
24.30	-47.2	-88.6	0.00317	653.4	0.00000162	0.91760532
22.80	-46.9	-88.7	0.00332	666.4	0.00000497	0.91761029
22.35	-46.6	-88.9	0.00326	671.2	0.00000151	0.91761180
22.00	-46.6	-89.2	0.00318	674.2	0.00000115	0.91761295
21.20	-46.7	-89.2	0.00330	680.9	0.00000265	0.91761559
20.50	-46.6	-89.4	0.00328	688.0	0.00000235	0.91761795
19.80	-46.4	-89.7	0.00323	695.3	0.00000233	0.91762027
19.15	-46.9	-89.8	0.00323	700.5	0.00000214	0.91762241
18.50	-47.4	-89.7	0.00342	705.9	0.00000221	0.91762462
17.95	-47.4	-89.9	0.00339	712.0	0.00000191	0.91762653
17.40	-46.6	-90.1	0.00342	721.0	0.00000191	0.91762844
16.90	-46.4	-90.2	0.00344	727.5	0.00000175	0.91763019
16.40	-46.7	-90.7	0.00321	732.7	0.00000170	0.91763189
15.93	-46.6	-90.9	0.00320	739.4	0.00000154	0.91763342
15.45	-45.3	-90.9	0.00332	750.2	0.00000160	0.91763502
15.00	-44.2	-91.0	0.00335	760.2	0.00000153	0.91763655
14.60	-43.5	-91.2	0.00329	768.2	0.00000135	0.91763790
14.20	-42.9	-91.2	0.00338	776.4	0.00000136	0.91763926
13.80	-42.0	-91.6	0.00323	785.9	0.00000135	0.91764061
13.40	-41.0	-91.3	0.00356	796.1	0.00000138	0.91764200
13.00	-40.7	-91.4	0.00354	804.0	0.00000145	0.91764345
12.70	-40.7	-91.6	0.00351	809.4	0.00000108	0.91764452
12.40	-40.5	-91.8	0.00347	815.5	0.00000107	0.91764559
12.14	-40.4	-91.8	0.00354	821.0	0.00000093	0.91764652
11.90	-40.2	-92.0	0.00349	826.2	0.00000086	0.91764739
11.67	-40.1	-92.4	0.00332	831.3	0.00000080	0.91764819
11.45	-39.9	-92.6	0.00327	836.4	0.00000074	0.91764893
11.32	-39.9	-92.6	0.00331	839.1	0.00000044	0.91764936
11.20	-39.9	-92.6	0.00334	841.7	0.00000041	0.91764977
11.16	-39.9	-92.6	0.00336	842.5	0.00000014	0.91764991

Table 29

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1002.00					
997.00	39.60	0.00016	15.5	289.0	0.06581
979.00	40.46	0.00074	14.7	289.6	0.06848
963.00	45.00	0.00132	13.9	290.2	0.07744
946.00	50.47	0.00203	13.1	290.8	0.08841
930.00	56.15	0.00279	12.3	291.4	0.10004
913.00	59.15	0.00365	11.5	292.2	0.10735
897.00	60.00	0.00449	10.7	292.9	0.11083
880.00	60.83	0.00541	9.8	293.5	0.11454
865.00	59.72	0.00622	9.4	294.5	0.11440
849.00	57.25	0.00706	8.6	295.3	0.11174
834.00	57.22	0.00787	7.6	295.7	0.11368
818.00	56.38	0.00873	6.1	295.7	0.11422
803.50	56.38	0.00953	4.9	296.0	0.11628
788.00	56.38	0.01039	3.8	296.5	0.11856
773.00	55.39	0.01123	2.7	296.9	0.11874
758.00	54.35	0.01207	2.0	297.8	0.11880
743.00	54.35	0.01293	1.1	298.6	0.12120
728.00	52.49	0.01378	0.3	299.4	0.11947
713.00	51.26	0.01462	-0.7	300.2	0.11912
697.50	49.28	0.01548	-1.6	301.0	0.11706
685.00	52.04	0.01622	-2.3	301.8	0.12587
670.00	47.79	0.01705	-2.7	303.3	0.11818
657.00	43.81	0.01773	-2.8	304.8	0.11050
643.00	39.45	0.01840	-3.9	305.5	0.10167
630.20	36.85	0.01899	-4.9	306.1	0.09688
617.00	34.36	0.01956	-6.5	306.2	0.09227
605.00	31.42	0.02005	-7.9	306.2	0.08606
590.00	28.26	0.02061	-8.8	307.4	0.07937
577.50	28.74	0.02110	-10.9	306.8	0.08246
566.00	29.50	0.02156	-12.3	306.9	0.08638
553.00	28.72	0.02209	-13.8	307.2	0.08605
540.00	28.72	0.02263	-15.0	307.8	0.08812
528.50	28.62	0.02312	-16.7	307.8	0.08974
517.00	28.60	0.02361	-17.9	308.2	0.09167
505.00	28.60	0.02414	-19.0	308.9	0.09385
492.00	28.53	0.02473	-20.1	309.8	0.09607
481.00	28.03	0.02523	-21.3	310.5	0.09657
470.00	27.03	0.02573	-22.6	310.8	0.09529
460.00	26.52	0.02618	-24.2	310.9	0.09552
449.00	26.08	0.02667	-25.5	311.3	0.09623
438.50	25.62	0.02715	-27.2	311.3	0.09680
428.00	25.69	0.02764	-28.6	311.6	0.09944
418.00	26.25	0.02813	-30.0	311.9	0.10407
407.50	26.81	0.02867	-31.4	312.5	0.10900
397.00	28.30	0.02926	-32.8	312.9	0.11813
389.00	28.38	0.02971	-34.3	312.8	0.12089
380.00	28.36	0.03024	-35.3	313.7	0.12367
370.00	26.77	0.03080	-36.4	314.6	0.11989
361.00	25.76	0.03130	-37.6	315.1	0.11823
352.00	23.35	0.03177	-39.1	315.5	0.10990
343.00	21.65	0.03221	-40.4	316.0	0.10460
334.00	20.56	0.03264	-41.4	317.0	0.10202
326.50	21.04	0.03302	-42.5	317.6	0.10677
318.00	23.71	0.03351	-43.4	318.8	0.12357
310.00	25.06	0.03402	-44.2	320.0	0.13395

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
302.00	25.61	0.03454	-45.4	320.6	0.14049
293.00	27.07	0.03519	-46.6	321.8	0.15310
285.00	31.17	0.03587	-47.6	322.9	0.18122
277.50	34.57	0.03660	-48.6	323.9	0.20643
270.00	34.55	0.03735	-49.8	324.7	0.21203
263.00	20.53	0.03777	-50.7	325.8	0.12937
255.00	17.76	0.03821	-51.6	327.4	0.11538
248.00	22.00	0.03869	-52.3	328.9	0.14697
241.00	29.64	0.03936	-52.5	331.3	0.20381
234.00	34.86	0.04017	-52.9	333.5	0.24684
227.50	41.11	0.04109	-52.7	336.5	0.29944
221.00	47.03	0.04216	-52.5	339.6	0.35264
215.00	53.38	0.04332	-52.3	342.6	0.41136
209.00	59.26	0.04465	-52.3	345.4	0.46981
203.50	65.26	0.04602	-52.3	348.0	0.53136
198.00	71.47	0.04757	-52.2	351.0	0.59809
193.00	68.08	0.04894	-52.0	353.9	0.58449
187.50	56.55	0.05023	-52.0	356.8	0.49976
182.00	47.23	0.05134	-52.0	359.9	0.43000
177.50	39.83	0.05213	-52.2	362.2	0.37179
173.00	34.77	0.05283	-52.2	364.8	0.33306
168.70	33.28	0.05350	-52.5	366.9	0.32691
164.00	36.10	0.05430	-52.9	369.2	0.36472
160.20	37.72	0.05500	-53.7	370.4	0.39016
156.00	37.25	0.05578	-54.3	372.2	0.39569
151.50	35.06	0.05659	-54.8	374.3	0.38345
148.00	29.80	0.05714	-55.6	375.5	0.33364
144.00	27.04	0.05773	-55.8	378.0	0.31114
140.00	27.58	0.05834	-56.1	380.7	0.32646
136.50	28.41	0.05891	-56.3	383.1	0.34488
133.00	28.84	0.05950	-56.3	386.0	0.35929
130.20	29.28	0.05999	-56.5	388.0	0.37269
127.00	30.08	0.06058	-56.5	390.8	0.39248
123.60	31.84	0.06126	-56.5	393.8	0.42681
120.00	34.70	0.06207	-56.7	396.8	0.47914
117.00	39.15	0.06286	-57.1	398.9	0.55439
114.00	42.50	0.06373	-57.5	401.0	0.61778
111.40	46.36	0.06457	-57.7	403.3	0.68951
109.00	64.74	0.06569	-57.7	405.8	0.98411
106.00	111.08	0.06813	-57.1	410.3	1.73638
103.00	149.03	0.07151	-56.5	414.9	2.39758
100.50	157.39	0.07456	-56.3	418.2	2.59506
97.80	158.54	0.07797	-56.5	421.0	2.68616
95.30	156.68	0.08118	-56.7	423.8	2.72416
92.90	151.64	0.08423	-56.9	426.4	2.70473
90.40	144.09	0.08733	-57.1	429.4	2.64108
88.20	135.20	0.08996	-57.5	431.5	2.53998
86.00	122.52	0.09241	-56.9	436.0	2.36057
84.00	107.05	0.09440	-56.5	439.7	2.11175
82.00	98.30	0.09627	-56.5	442.8	1.98632
80.00	90.73	0.09804	-56.7	445.5	1.87917
78.00	83.04	0.09970	-56.9	448.3	1.76413
76.00	84.73	0.10143	-56.5	452.5	1.84723
74.10	88.76	0.10321	-56.3	456.2	1.98489
72.30	100.50	0.10516	-56.5	459.0	2.30336

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
70.70	111.24	0.10712	-56.7	461.5	2.60708
69.00	124.10	0.10951	-56.9	464.3	2.98024
67.40	124.95	0.11182	-57.1	466.9	3.07196
65.80	124.95	0.11419	-56.7	471.1	3.14665
64.20	125.72	0.11664	-56.3	475.3	3.24493
62.70	128.13	0.11903	-55.8	479.4	3.38619
61.20	138.05	0.12167	-55.6	483.2	3.73761
59.80	139.28	0.12421	-55.0	487.8	3.85935
58.40	128.90	0.12662	-55.0	491.1	3.65728
57.00	124.53	0.12901	-54.4	495.8	3.62021
55.70	130.19	0.13138	-53.5	501.3	3.87293
54.40	139.80	0.13399	-53.1	505.6	4.25830
53.20	147.43	0.13658	-53.7	507.5	4.59198
51.90	152.47	0.13956	-54.1	510.2	4.86787
50.70	152.81	0.14239	-54.3	513.2	4.99434
49.50	152.50	0.14527	-54.4	516.2	5.10486
48.40	151.13	0.14795	-55.4	517.2	5.17418
47.20	147.64	0.15088	-55.6	520.4	5.18307
46.10	149.29	0.15366	-54.6	526.4	5.36587
45.00	157.78	0.15667	-53.9	531.9	5.80986
43.90	162.52	0.15984	-53.7	536.1	6.13419
42.90	167.50	0.16289	-52.9	541.6	6.46952
41.80	167.86	0.16633	-52.7	546.1	6.65401
40.90	165.67	0.16918	-52.5	549.9	6.71192
40.00	162.93	0.17204	-52.5	553.4	6.74934
39.00	161.15	0.17526	-52.3	557.9	6.84681
38.10	160.73	0.17822	-52.5	561.2	6.99017
37.20	160.64	0.18126	-52.7	564.6	7.15536
36.30	159.70	0.18434	-53.1	567.5	7.28985
35.40	158.02	0.18748	-53.9	569.6	7.39639
34.60	158.78	0.19034	-53.3	574.9	7.60384
33.80	161.29	0.19332	-52.3	581.2	7.90725
32.90	162.89	0.19679	-51.8	587.2	8.20382
32.10	165.30	0.20001	-51.4	592.3	8.53256
31.40	166.97	0.20291	-50.9	597.5	8.81122
30.60	166.43	0.20630	-50.7	602.4	9.01248
29.80	165.09	0.20976	-50.7	607.0	9.17978
29.10	164.59	0.21285	-51.1	610.2	9.37176
28.40	164.50	0.21601	-51.1	614.4	9.59755
27.70	164.41	0.21925	-50.2	621.3	9.83478
27.10	163.47	0.22207	-49.1	628.2	9.99490
26.40	162.98	0.22544	-48.9	633.4	10.22957
25.70	161.73	0.22887	-48.8	638.7	10.42768
25.10	161.73	0.23189	-48.4	644.0	10.67695
24.50	164.62	0.23503	-47.7	650.5	11.13386
23.90	162.96	0.23822	-47.7	655.1	11.29825
23.40	160.89	0.24091	-47.6	659.5	11.39270
22.80	159.55	0.24418	-47.6	664.5	11.59502
22.20	158.22	0.24751	-47.6	669.5	11.80941
21.60	155.74	0.25088	-47.4	675.3	11.94712
21.15	153.18	0.25343	-47.2	679.9	12.00103
20.60	151.54	0.25658	-46.9	686.0	12.18974
20.10	149.00	0.25947	-46.6	691.9	12.28309
19.70	147.77	0.26182	-46.2	696.9	12.42883
19.20	147.30	0.26481	-45.9	703.0	12.71218

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
18.70	143.95	0.26781	-45.9	708.3	12.75501
18.25	140.15	0.27050	-45.9	713.3	12.72455
17.80	137.15	0.27320	-46.4	716.8	12.76756
17.40	133.79	0.27561	-46.9	719.9	12.74113
17.00	132.15	0.27803	-46.9	724.7	12.88074
16.54	131.33	0.28088	-46.1	733.1	13.15666
16.10	128.40	0.28361	-45.6	740.3	13.21460
15.67	125.84	0.28630	-45.8	745.5	13.30689
15.30	123.80	0.28864	-45.6	751.2	13.40745
15.00	124.16	0.29058	-44.8	758.1	13.71581
14.60	126.84	0.29328	-43.7	767.7	14.39494
14.25	123.95	0.29566	-43.4	774.1	14.41294
13.90	120.23	0.29802	-42.8	781.7	14.33252
13.50	117.28	0.30072	-42.3	789.8	14.39484
13.20	115.30	0.30277	-42.2	795.4	14.47317
12.80	114.44	0.30555	-42.0	802.9	14.81493
12.60	112.69	0.30695	-41.9	807.1	14.81907
12.25	111.49	0.30943	-41.6	814.7	15.08134
11.95	110.24	0.31159	-41.3	821.5	15.28665
11.70	108.14	0.31339	-41.1	827.0	15.31468
11.50	105.52	0.31483	-40.8	832.2	15.20447
11.30	103.80	0.31627	-40.7	836.9	15.22044
11.20	102.50	0.31699	-40.5	839.6	15.16479
11.15	102.13	0.31735	-40.4	841.2	15.17700
11.10	101.34	0.31771	-40.4	842.2	15.12764

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
941.00					
929.00	79.89	0.00081	12.6	291.9	0.14249
918.00	77.42	0.00154	11.7	291.9	0.13974
905.00	75.35	0.00239	10.9	292.3	0.13797
891.00	73.18	0.00329	9.8	292.5	0.13610
878.50	71.04	0.00408	9.2	293.0	0.13400
867.00	68.90	0.00480	8.5	293.3	0.13168
854.00	67.31	0.00560	8.0	294.1	0.13059
842.00	67.61	0.00635	7.4	294.7	0.13306
831.00	67.06	0.00705	6.7	295.0	0.13373
820.00	66.03	0.00775	6.4	295.8	0.13343
809.00	65.17	0.00844	5.6	296.2	0.13349
798.00	63.66	0.00913	4.8	296.5	0.13220
788.00	63.18	0.00976	3.9	296.6	0.13286
778.00	61.76	0.01038	3.8	297.5	0.13155
768.00	59.42	0.01099	3.9	298.8	0.12820
758.00	56.55	0.01157	3.2	299.1	0.12361
747.50	53.19	0.01216	2.5	299.6	0.11790
737.00	52.44	0.01274	1.5	299.7	0.11790
727.50	52.93	0.01329	1.0	300.2	0.12055
718.00	53.31	0.01384	0.6	300.9	0.12303
708.50	52.46	0.01439	0.0	301.4	0.12269
699.00	50.47	0.01493	-0.5	302.0	0.11964
689.00	48.67	0.01548	-1.1	302.7	0.11705
680.00	47.19	0.01597	-1.5	303.3	0.11500
671.50	45.96	0.01643	-2.0	303.8	0.11341
663.00	45.11	0.01688	-2.7	304.2	0.11274
655.00	42.31	0.01729	-3.5	304.4	0.10704
648.00	39.94	0.01763	-4.3	304.4	0.10212
640.00	39.07	0.01801	-4.8	304.9	0.10115
631.00	38.00	0.01844	-5.6	305.2	0.09978
624.00	39.18	0.01878	-6.3	305.3	0.10405
616.00	37.64	0.01916	-7.2	305.4	0.10125
608.00	35.66	0.01953	-8.1	305.5	0.09718
598.00	34.01	0.01998	-9.0	305.9	0.09424
590.00	32.18	0.02032	-10.0	305.9	0.09039
582.00	32.50	0.02067	-10.9	306.1	0.09252
574.00	33.23	0.02103	-11.8	306.3	0.09594
567.00	33.28	0.02136	-12.4	306.6	0.09726
558.50	33.28	0.02175	-13.2	307.1	0.09874
550.00	32.85	0.02215	-13.8	307.7	0.09898
542.00	32.54	0.02253	-14.6	308.1	0.09949
534.00	32.45	0.02291	-15.4	308.3	0.10068
526.50	32.18	0.02327	-16.2	308.7	0.10127
519.00	33.08	0.02364	-17.3	308.6	0.10561
511.00	33.57	0.02405	-18.4	308.6	0.10887
503.50	30.46	0.02441	-19.4	308.7	0.10023
495.00	30.46	0.02482	-20.5	308.9	0.10195
487.00	29.33	0.02520	-21.5	309.1	0.09980
480.00	28.25	0.02552	-22.3	309.4	0.09753
472.00	27.92	0.02589	-23.3	309.7	0.09802
464.50	27.92	0.02624	-24.4	309.7	0.09961
457.00	27.91	0.02660	-25.4	309.9	0.10119
450.00	27.91	0.02694	-26.2	310.3	0.10276
443.00	27.85	0.02729	-27.2	310.4	0.10416
436.00	27.89	0.02764	-28.2	310.5	0.10601

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
429.00	27.52	0.02799	-29.1	310.8	0.10628
423.00	28.27	0.02830	-30.0	310.9	0.11074
417.00	29.02	0.02863	-31.1	310.8	0.11532
410.00	30.53	0.02904	-31.9	311.3	0.12338
403.00	30.96	0.02946	-32.5	312.0	0.12728
397.50	29.40	0.02978	-33.6	311.8	0.12255
391.00	31.37	0.03019	-34.6	312.0	0.13293
385.00	35.41	0.03062	-35.1	312.7	0.15241
379.00	31.79	0.03101	-35.9	313.0	0.13901
372.80	30.99	0.03142	-36.8	313.4	0.13774
366.00	30.99	0.03187	-37.9	313.5	0.14030
360.00	31.08	0.03227	-38.6	314.0	0.14306
354.00	33.06	0.03271	-39.6	314.2	0.15475
349.00	33.49	0.03309	-40.5	314.3	0.15901
343.00	32.73	0.03354	-41.1	315.0	0.15812
337.00	31.49	0.03397	-41.9	315.6	0.15485
331.00	31.49	0.03442	-42.2	316.8	0.15766
325.00	31.08	0.03487	-42.8	317.6	0.15847
320.00	31.42	0.03525	-43.5	318.0	0.16268
314.00	32.14	0.03573	-44.2	318.8	0.16962
308.00	37.60	0.03631	-45.0	319.5	0.20226
302.50	37.23	0.03684	-45.6	320.2	0.20393
297.00	42.56	0.03745	-46.1	321.2	0.23745
292.00	48.21	0.03810	-46.7	321.9	0.27357
287.00	46.72	0.03874	-47.6	322.3	0.26973
281.00	46.72	0.03952	-48.8	322.5	0.27549
275.00	49.74	0.04036	-49.3	323.7	0.29973
270.00	51.03	0.04110	-50.2	324.2	0.31314
265.00	46.86	0.04180	-50.5	325.4	0.29302
260.00	38.68	0.04238	-50.9	326.6	0.24651
255.00	34.52	0.04291	-51.6	327.4	0.22431
250.00	36.42	0.04348	-51.8	329.0	0.24141
245.00	40.79	0.04413	-52.2	330.3	0.27590
240.50	44.11	0.04477	-52.3	331.8	0.30388
236.00	45.67	0.04545	-52.7	333.0	0.32067
231.50	48.04	0.04618	-53.5	333.7	0.34387
227.00	50.72	0.04697	-53.7	335.3	0.37024
222.70	59.55	0.04787	-53.7	337.1	0.44309
218.00	64.77	0.04896	-53.5	339.5	0.49233
214.00	68.29	0.04996	-53.1	341.9	0.52877
209.00	73.27	0.05133	-52.9	344.5	0.58090
205.00	85.03	0.05262	-52.2	347.6	0.68729
201.00	90.07	0.05402	-51.2	351.0	0.74254
196.30	89.04	0.05569	-51.2	353.4	0.75157
192.00	78.96	0.05707	-51.4	355.3	0.68143
188.00	68.71	0.05821	-51.6	357.2	0.60557
184.00	60.06	0.05923	-51.8	359.1	0.54088
180.00	52.87	0.06015	-52.0	361.0	0.48670
176.00	49.66	0.06103	-52.3	362.7	0.46756
172.00	50.31	0.06194	-52.7	364.5	0.48463
168.00	53.15	0.06293	-52.2	367.9	0.52422
164.50	54.56	0.06384	-52.2	370.1	0.54953
161.00	50.83	0.06470	-52.9	371.1	0.52312
157.40	46.65	0.06553	-54.1	371.6	0.49105
153.50	43.74	0.06640	-54.4	373.6	0.47221

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
150.50	40.95	0.06704	-54.8	375.0	0.45081
147.00	42.19	0.06782	-55.4	376.5	0.47559
143.60	41.88	0.06859	-56.1	378.0	0.48327
140.00	42.74	0.06945	-56.5	380.0	0.50583
137.00	45.12	0.07022	-56.7	382.0	0.54578
133.50	47.20	0.07119	-56.9	384.5	0.58589
130.50	49.50	0.07208	-56.9	387.0	0.62854
127.50	50.62	0.07301	-56.9	389.6	0.65784
124.50	54.75	0.07403	-56.5	393.0	0.72871
121.50	61.82	0.07523	-56.3	396.1	0.84310
118.70	68.29	0.07648	-56.1	399.1	0.95326
116.00	74.79	0.07784	-56.1	401.8	1.06828
113.00	85.46	0.07961	-56.3	404.4	1.25316
110.00	103.13	0.08180	-56.5	407.1	1.55345
107.20	128.73	0.08442	-56.9	409.4	1.98986
104.50	156.79	0.08758	-56.9	412.3	2.48613
101.80	177.00	0.09124	-56.7	415.8	2.88108
99.20	172.73	0.09476	-56.3	419.7	2.88518
96.60	168.81	0.09830	-56.7	422.1	2.89557
94.00	165.94	0.10188	-56.9	425.0	2.92521
91.60	159.32	0.10513	-56.9	428.2	2.88207
89.10	148.97	0.10839	-56.9	431.6	2.77048
86.90	137.11	0.11109	-56.7	435.1	2.61449
84.70	128.89	0.11370	-56.7	438.3	2.52147
82.40	122.38	0.11636	-56.7	441.7	2.46102
80.00	115.69	0.11906	-56.7	445.5	2.39622
77.70	109.16	0.12158	-56.9	448.8	2.32798
75.60	109.49	0.12395	-56.9	452.3	2.39977
73.30	120.21	0.12688	-56.9	456.3	2.71738
71.10	128.97	0.12998	-57.1	459.9	3.00557
69.10	134.52	0.13301	-57.5	462.7	3.22567
67.10	138.73	0.13623	-57.5	466.6	3.42579
65.10	142.33	0.13963	-57.5	470.7	3.62273
63.00	145.81	0.14340	-57.1	476.0	3.83491
61.20	146.17	0.14675	-56.9	480.5	3.95754
59.20	140.32	0.15043	-55.4	488.3	3.92760
57.40	140.60	0.15386	-54.3	495.3	4.05874
55.60	146.43	0.15754	-54.4	499.4	4.36404
53.80	152.26	0.16150	-54.8	503.2	4.68955
51.90	156.94	0.16595	-55.2	507.4	5.01050
50.30	161.62	0.16995	-55.4	511.5	5.32424
48.60	160.47	0.17431	-55.0	517.5	5.47107
47.00	168.64	0.17876	-54.6	523.5	5.94558
45.30	183.44	0.18410	-54.1	530.4	6.71003
43.60	186.16	0.18972	-53.7	537.2	7.07501
42.00	180.21	0.19504	-52.9	544.9	7.10984
40.40	170.46	0.20027	-52.3	552.3	6.99151
38.35	164.91	0.20705	-52.2	561.1	7.12514
36.40	165.32	0.21386	-52.2	569.5	7.52573
34.50	166.88	0.22092	-52.0	578.8	8.01485
32.70	169.30	0.22809	-51.1	590.2	8.57872
30.90	167.77	0.23559	-50.3	601.7	8.99685
30.20	165.46	0.23858	-50.2	606.2	9.07856
28.50	165.83	0.24617	-49.6	617.7	9.64115
26.90	166.33	0.25375	-48.6	630.9	10.24586

Table 29 (continued)

WASHINGTON,D.C. 5/5/70 1620Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
26.35	167.12	0.25648	-47.6	637.5	10.50891
24.80	165.55	0.26440	-47.4	649.2	11.06120
24.30	162.81	0.26702	-47.2	653.4	11.10213
22.80	159.20	0.27503	-46.9	666.4	11.56981
22.35	156.39	0.27749	-46.6	671.2	11.59431
22.00	153.66	0.27941	-46.6	674.2	11.57334
21.20	151.00	0.28382	-46.7	680.9	11.80234
20.50	147.07	0.28772	-46.6	688.0	11.88777
19.80	142.01	0.29162	-46.4	695.3	11.88454
19.15	136.93	0.29523	-46.9	700.5	11.84827
18.50	132.96	0.29885	-47.4	705.9	11.90934
17.95	129.52	0.30194	-47.4	712.0	11.95616
17.40	126.61	0.30505	-46.6	721.0	12.05745
16.90	125.54	0.30794	-46.4	727.5	12.30854
16.40	123.49	0.31087	-46.7	732.7	12.47728
15.93	122.01	0.31367	-46.6	739.4	12.69081
15.45	120.76	0.31658	-45.3	750.2	12.95114
15.00	117.75	0.31933	-44.2	760.2	13.00726
14.60	115.87	0.32181	-43.5	768.2	13.15091
14.20	115.10	0.32433	-42.9	776.4	13.43097
13.80	113.61	0.32689	-42.0	785.9	13.64148
13.40	110.12	0.32945	-41.0	796.1	13.61743
13.00	108.01	0.33203	-40.7	804.0	13.76670
12.70	107.83	0.33402	-40.7	809.4	14.06855
12.40	108.16	0.33606	-40.5	815.5	14.45328
12.14	107.26	0.33786	-40.4	821.0	14.63980
11.90	105.01	0.33951	-40.2	826.2	14.62137
11.67	104.63	0.34113	-40.1	831.3	14.85686
11.45	104.21	0.34269	-39.9	836.4	15.08063
11.32	102.35	0.34361	-39.9	839.1	14.98139
11.20	101.03	0.34447	-39.9	841.7	14.94718
11.16	101.03	0.34475	-39.9	842.5	15.00075
11.10	101.68	0.34518	-40.1	843.3	15.17848

Table 30

WASHINGTON,D.C. 6/9/70 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1020.00	19.3	6.3	5.81062	290.8		
1004.00	19.0	7.1	6.22493	291.8	0.09824944	0.09824944
988.00	18.6	7.9	6.68037	292.8	0.10534939	0.20359883
975.00	18.4	9.5	7.58444	293.7	0.09461352	0.29821235
960.00	18.1	10.4	8.17563	294.7	0.12061281	0.41882516
947.00	17.9	13.2	10.02357	295.7	0.12070899	0.53953414
933.00	17.8	14.3	10.89014	296.7	0.14938358	0.68891773
919.00	17.8	16.4	12.76377	298.0	0.16895649	0.85787422
907.00	17.1	16.4	12.93616	298.4	0.15734651	1.01522073
892.50	16.2	16.4	13.15077	299.0	0.19299000	1.20821073
879.00	15.4	16.4	13.35708	299.4	0.18257956	1.39079029
866.00	14.6	14.3	11.74859	299.8	0.16651719	1.55730747
852.00	14.3	11.3	9.81119	300.9	0.15399845	1.71130593
839.00	13.9	9.5	8.83132	301.9	0.12364930	1.83495523
826.00	13.0	10.4	9.52225	302.2	0.12173286	1.95668809
813.00	11.7	11.3	10.28963	302.2	0.13140534	2.08809343
800.00	10.9	12.2	11.14474	302.8	0.14216673	2.23026016
787.00	10.2	11.3	10.63538	303.4	0.14445997	2.37472013
774.00	9.1	9.5	9.58439	303.7	0.13411072	2.50883084
762.00	7.9	8.7	9.19095	303.8	0.11495105	2.62378189
754.00	8.4	7.1	8.31650	305.2	0.07145895	2.69524084
742.50	7.3	3.5	6.56341	305.4	0.08730556	2.78254641
732.00	6.4	1.6	5.80359	305.7	0.06625178	2.84879819
721.00	5.6	1.0	5.64032	306.0	0.06422604	2.91302423
711.00	5.0	-2.3	4.42672	306.6	0.05136245	2.96438668
703.50	4.0	-3.8	3.94021	306.4	0.03201631	2.99640299
693.50	3.4	-3.8	3.99739	307.1	0.04049795	3.03690095
683.00	2.3	-3.4	4.23170	307.2	0.04408442	3.08098537
672.00	1.3	-5.7	3.51814	307.5	0.04349401	3.12447938
663.50	0.6	-7.4	3.06917	307.8	0.02856744	3.15304682
654.00	-0.2	-5.7	3.61553	308.2	0.03240037	3.18544718
645.00	-1.0	-4.3	4.12776	308.5	0.03555592	3.22100311
637.00	-1.8	0.4	6.12303	308.7	0.04183995	3.26284305
628.00	-2.6	1.0	6.48430	309.0	0.05789079	3.32073385
619.00	-2.7	-5.7	3.82122	310.1	0.04732127	3.36805511
610.00	-3.0	-6.6	3.59461	311.1	0.03405227	3.40210738
602.00	-3.4	-12.9	2.07321	311.8	0.02313396	3.42524134
594.00	-3.9	-13.2	2.04023	312.4	0.01678956	3.44203090
587.00	-4.2	-12.9	2.12637	313.2	0.01488072	3.45691163
578.00	-4.6	-13.9	1.97891	314.1	0.01885079	3.47576241
570.00	-5.2	-16.5	1.56995	314.6	0.01448512	3.49024754
563.00	-5.5	-19.6	1.18331	315.4	0.00983304	3.50008057
556.00	-5.9	-23.0	0.86245	316.1	0.00730627	3.50738685
548.00	-6.4	-25.4	0.68967	316.8	0.00633520	3.51372205
540.00	-7.2	-25.2	0.71341	317.2	0.00572687	3.51944891
534.00	-8.1	-24.8	0.74983	317.1	0.00447930	3.52392821
527.00	-9.0	-25.0	0.74523	317.2	0.00533949	3.52926771
519.00	-9.6	-25.2	0.74231	317.9	0.00607158	3.53533929
511.00	-10.5	-24.8	0.78362	318.2	0.00622829	3.54156758
504.00	-11.3	-24.6	0.81016	318.5	0.00569208	3.54725966
496.00	-12.0	-25.0	0.79186	319.1	0.00653888	3.55379854
489.00	-12.8	-26.2	0.71695	319.4	0.00538863	3.55918717
482.00	-13.4	-26.0	0.74106	320.0	0.00520718	3.56439435
475.00	-14.2	-26.7	0.69845	320.4	0.00514110	3.56953545
468.00	-14.9	-28.3	0.60414	320.8	0.00465209	3.57418754

Table 30 (continued)

WASHINGTON,D.C. 6/9/70 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
461.00	-15.8	-28.6	0.59255	321.1	0.00427389	3.57846143
454.00	-16.5	-28.8	0.59151	321.6	0.00422879	3.58269022
447.00	-17.2	-29.3	0.57108	322.2	0.00415209	3.58684231
440.00	-18.0	-29.9	0.54292	322.6	0.00397855	3.59082086
433.00	-18.7	-33.6	0.37459	323.3	0.00327682	3.59409768
426.00	-19.3	-35.4	0.31192	324.0	0.00245183	3.59654951
419.00	-19.9	-35.9	0.30015	324.7	0.00218595	3.59873546
412.00	-20.8	-36.4	0.28913	325.1	0.00210454	3.60084000
406.00	-21.7	-36.8	0.28184	325.4	0.00174785	3.60258785
399.00	-22.5	-37.5	0.26495	325.8	0.00195283	3.60454068
392.50	-23.3	-38.5	0.23986	326.4	0.00167411	3.60621479
386.00	-24.4	-39.1	0.22900	326.5	0.00155488	3.60776967
379.50	-25.5	-39.5	0.22162	326.7	0.00149439	3.60926406
373.00	-26.2	-40.2	0.20948	327.3	0.00142966	3.61069372
366.00	-27.2	-40.8	0.19858	327.7	0.00145737	3.61215109
360.00	-28.3	-41.3	0.19024	327.9	0.00119026	3.61334134
354.00	-29.3	-42.3	0.17415	328.1	0.00111546	3.61445680
348.00	-30.0	-43.8	0.14773	328.8	0.00098533	3.61544213
341.50	-30.9	-42.0	0.18692	329.3	0.00110979	3.61655192
335.00	-32.0	-30.5	0.66835	329.7	0.00283636	3.61938828
329.00	-32.6	-30.8	0.65909	330.5	0.00406361	3.62345188
323.00	-33.7	-32.4	0.56584	330.7	0.00374980	3.62720168
317.50	-34.9	-32.7	0.55854	330.6	0.00315516	3.63035684
312.00	-35.9	-33.0	0.55164	330.9	0.00311530	3.63347214
306.00	-36.9	-33.3	0.54602	331.4	0.00336020	3.63683233
300.00	-38.0	-33.8	0.52526	331.7	0.00327943	3.64011177
294.00	-39.2	-35.7	0.43975	332.0	0.00295409	3.64306585
288.00	-40.3	-36.5	0.40817	332.2	0.00259565	3.64566150
283.00	-41.2	-38.0	0.35471	332.6	0.00194611	3.64760761
278.00	-42.2	-39.0	0.32202	333.0	0.00172634	3.64933396
272.00	-43.4	-39.5	0.30925	333.3	0.00193244	3.65126640
266.00	-44.5	-40.4	0.28674	333.8	0.00182446	3.65309086
261.00	-45.6	-41.6	0.25631	334.0	0.00138535	3.65447621
256.00	-46.9	-42.7	0.23000	333.9	0.00124060	3.65571681
251.00	-48.1	-44.3	0.19378	334.1	0.00108107	3.65679788
246.00	-49.1	-45.5	0.17159	334.4	0.00093205	3.65772993
241.00	-50.4	-47.7	0.13457	334.6	0.00078102	3.65851095
236.00	-51.8	-49.0	0.11670	334.4	0.00064100	3.65915195
231.80	-53.3	-49.7	0.10964	333.8	0.00048501	3.65963697
227.00	-54.3	-51.1	0.09461	334.3	0.00050018	3.66013715
223.00	-55.7	-52.6	0.07929	333.8	0.00035488	3.66049203
218.00	-57.0	-54.3	0.06511	334.1	0.00036835	3.66086038
213.00	-58.2	-55.4	0.05783	334.3	0.00031362	3.66117400
208.00	-58.9	-56.1	0.05443	335.5	0.00028638	3.66146038
203.60	-60.0	-55.9	0.05665	335.8	0.00024936	3.66170974
199.00	-60.5	-56.6	0.05328	337.3	0.00025801	3.66196775
194.80	-61.0	-60.5	0.03232	338.6	0.00018342	3.66215117
190.00	-61.9	-61.0	0.03104	339.5	0.00015517	3.66230634
186.50	-62.7	-61.6	0.02908	340.1	0.00010735	3.66241370
183.00	-63.2	-62.6	0.02574	341.1	0.00009789	3.66251158
178.50	-63.4	-63.7	0.02269	343.1	0.00011119	3.66262278
174.00	-63.7	-63.5	0.02395	345.2	0.00010707	3.66272984
170.70	-64.7	-63.8	0.02328	345.4	0.00007951	3.66280935
167.00	-65.0	-64.8	0.02082	347.1	0.00008324	3.66289259
162.70	-65.0	-66.0	0.01795	349.7	0.00008505	3.66297764

Table 30 (continued)

WASHINGTON,D.C. 6/9/70 1530Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
158.00	-64.0	-67.1	0.01580	354.4	0.00008093	3.66305857
154.80	-62.7	-68.9	0.01228	358.7	0.00004585	3.66310441
151.00	-61.7	-71.0	0.00929	362.9	0.00004183	3.66314625
147.20	-60.3	-72.9	0.00708	368.0	0.00003175	3.66317800
143.00	-58.9	-75.0	0.00532	373.5	0.00002659	3.66320458
139.50	-58.7	-76.0	0.00466	376.5	0.00001782	3.66322241
136.00	-59.6	-76.2	0.00460	377.7	0.00001653	3.66323893
132.50	-59.1	-77.0	0.00416	381.3	0.00001564	3.66325457
129.00	-58.7	-77.6	0.00390	385.0	0.00001438	3.66326895
126.00	-58.7	-78.1	0.00368	387.6	0.00001160	3.66328055
123.00	-58.7	-78.4	0.00357	390.3	0.00001111	3.66329165
120.00	-58.7	-79.1	0.00328	393.1	0.00001049	3.66330214
117.00	-58.7	-79.5	0.00318	395.9	0.00000988	3.66331202
114.00	-58.7	-79.4	0.00331	398.9	0.00000993	3.66332195
111.00	-58.9	-79.8	0.00316	401.5	0.00000991	3.66333185
108.00	-59.1	-79.8	0.00325	404.2	0.00000982	3.66334167
105.00	-59.6	-79.9	0.00330	406.6	0.00001002	3.66335169
102.40	-60.0	-80.1	0.00328	408.7	0.00000873	3.66336042
99.40	-60.3	-80.2	0.00333	411.7	0.00001012	3.66337054
96.70	-60.5	-80.3	0.00333	414.5	0.00000917	3.66337972
94.20	-60.5	-80.4	0.00336	417.6	0.00000853	3.66338825
91.50	-60.7	-80.5	0.00341	420.6	0.00000933	3.66339758
89.00	-61.0	-80.6	0.00346	423.5	0.00000876	3.66340634
86.80	-61.0	-80.8	0.00344	426.6	0.00000774	3.66341408
84.50	-60.5	-81.2	0.00332	430.8	0.00000794	3.66342202
82.00	-60.0	-81.6	0.00317	435.5	0.00000828	3.66343030
80.00	-59.8	-81.8	0.00315	439.0	0.00000645	3.66343675
77.50	-59.6	-82.0	0.00315	443.5	0.00000803	3.66344478
75.20	-59.6	-82.1	0.00319	447.3	0.00000744	3.66345222
73.20	-59.6	-82.2	0.00323	450.8	0.00000655	3.66345877
71.00	-59.8	-82.3	0.00327	454.2	0.00000730	3.66346607
69.00	-60.0	-82.5	0.00326	457.5	0.00000667	3.66347274
67.00	-60.0	-82.7	0.00325	461.3	0.00000665	3.66347939
65.00	-59.8	-82.7	0.00335	465.8	0.00000674	3.66348612
63.00	-59.4	-82.7	0.00346	471.0	0.00000695	3.66349307
61.00	-58.9	-82.7	0.00357	476.4	0.00000717	3.66350024
59.20	-58.5	-82.6	0.00374	481.5	0.00000671	3.66350696
57.50	-57.8	-82.6	0.00385	487.0	0.00000658	3.66351354
55.70	-57.0	-83.0	0.00372	493.4	0.00000695	3.66352049
54.00	-56.3	-83.3	0.00365	499.2	0.00000639	3.66352689
52.00	-55.7	-83.0	0.00399	506.1	0.00000779	3.66353468
50.60	-55.5	-83.7	0.00364	510.5	0.00000544	3.66354012
48.90	-54.7	-84.8	0.00309	517.4	0.00000584	3.66354596

Table 31

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1020.00					
1004.00	62.04	0.00077	18.3	291.1	0.10239
988.00	66.65	0.00162	17.9	292.1	0.11178
975.00	71.75	0.00237	17.7	293.0	0.12195
960.00	74.50	0.00328	17.4	293.9	0.12859
947.00	76.37	0.00410	17.2	294.9	0.13362
933.00	77.73	0.00502	17.0	295.9	0.13805
919.00	87.30	0.00606	17.0	297.2	0.15740
907.00	108.89	0.00719	16.2	297.6	0.19894
892.50	100.54	0.00847	15.3	298.0	0.18666
879.00	106.25	0.00975	14.4	298.4	0.20030
866.00	104.44	0.01098	13.5	298.7	0.19984
852.00	85.78	0.01208	13.2	299.8	0.16683
839.00	66.98	0.01289	12.8	300.7	0.13228
826.00	56.87	0.01360	11.8	301.0	0.11409
813.00	59.76	0.01434	10.5	300.9	0.12179
800.00	63.00	0.01515	9.6	301.4	0.13049
787.00	62.34	0.01595	8.8	301.9	0.13126
774.00	59.30	0.01673	7.7	302.1	0.12696
762.00	59.71	0.01747	6.4	302.1	0.12984
749.00	62.74	0.01832	5.4	302.6	0.13879
736.00	58.04	0.01912	4.8	303.4	0.13068
722.00	53.64	0.01994	3.9	304.1	0.12310
710.00	52.37	0.02063	2.8	304.4	0.12222
698.00	50.22	0.02131	1.8	304.7	0.11921
685.00	49.18	0.02204	0.8	305.2	0.11896
673.00	40.19	0.02260	-0.2	305.6	0.09894
661.00	35.18	0.02310	-1.1	306.2	0.08820
650.00	33.97	0.02355	-2.1	306.5	0.08660
638.00	32.04	0.02402	-3.1	307.1	0.08321
625.00	31.43	0.02453	-4.1	307.8	0.08332
613.00	32.15	0.02502	-4.8	308.7	0.08690
600.00	35.79	0.02563	-5.2	310.0	0.09885
588.00	38.49	0.02624	-5.8	311.2	0.10846
577.00	36.37	0.02678	-6.0	312.6	0.10445
565.00	39.60	0.02744	-6.8	313.6	0.11613
552.00	40.68	0.02819	-7.7	314.6	0.12211
541.50	34.52	0.02871	-8.5	315.4	0.10565
530.00	31.94	0.02925	-9.5	316.1	0.09984
519.00	29.13	0.02973	-10.5	316.8	0.09302
508.00	28.58	0.03022	-12.0	316.9	0.09322
496.00	29.13	0.03077	-13.3	317.6	0.09733
486.00	30.25	0.03125	-14.1	318.3	0.10312
475.50	31.33	0.03179	-15.1	319.1	0.10918
464.00	31.33	0.03240	-16.2	320.0	0.11189
454.00	30.75	0.03293	-17.5	320.4	0.11224
443.00	31.74	0.03354	-18.5	321.4	0.11871
433.00	31.19	0.03411	-19.6	322.1	0.11934
422.00	27.94	0.03467	-21.1	322.6	0.10970
412.80	29.60	0.03519	-22.4	322.9	0.11881
402.00	30.68	0.03583	-23.8	323.6	0.12647
393.00	29.02	0.03635	-25.3	323.7	0.12237
382.00	28.47	0.03699	-26.8	324.4	0.12350
373.00	26.31	0.03748	-28.4	324.4	0.11686
363.00	23.88	0.03800	-29.9	324.9	0.10899
354.00	21.64	0.03842	-31.6	325.0	0.10129

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
344.00	22.67	0.03894	-33.2	325.5	0.10921
335.00	26.29	0.03949	-34.8	325.8	0.13002
326.00	32.51	0.04019	-35.4	327.5	0.16523
317.00	31.17	0.04088	-36.1	329.2	0.16291
309.00	28.96	0.04146	-37.7	329.3	0.15529
302.00	26.94	0.04195	-39.3	329.3	0.14783
292.00	25.04	0.04261	-41.0	330.0	0.14212
284.00	24.51	0.04315	-42.6	330.3	0.14300
275.00	23.37	0.04374	-44.3	331.0	0.14081
267.00	21.16	0.04424	-46.1	331.1	0.13130
259.00	19.24	0.04470	-47.7	331.6	0.12306
250.00	19.88	0.04526	-49.5	332.3	0.13176
242.00	19.30	0.04575	-51.2	332.8	0.13214
233.80	18.55	0.04626	-53.2	333.1	0.13147
226.00	18.54	0.04675	-54.9	333.8	0.13591
218.00	18.54	0.04728	-56.9	334.2	0.14090
211.00	19.85	0.04779	-58.7	334.5	0.15588
204.00	21.06	0.04835	-60.2	335.3	0.17110
197.00	21.13	0.04893	-61.8	336.2	0.17775
189.50	30.08	0.04986	-62.8	338.4	0.26306
182.00	39.17	0.05111	-63.7	340.8	0.35666
175.30	42.14	0.05235	-64.0	344.0	0.39837
169.00	46.91	0.05371	-64.2	347.2	0.45991
162.20	53.03	0.05543	-64.2	351.3	0.54179
155.00	58.00	0.05751	-64.5	355.5	0.62008
147.50	72.38	0.06034	-64.0	361.4	0.81307
142.00	75.94	0.06262	-62.0	368.7	0.88609
134.70	64.03	0.06529	-60.9	376.4	0.78768
127.50	58.80	0.06784	-61.6	381.1	0.76413
120.70	54.21	0.07019	-62.0	386.3	0.74418
114.00	55.66	0.07270	-61.1	394.3	0.80907
108.00	74.62	0.07588	-59.8	403.0	1.14479
102.00	100.17	0.08040	-60.9	407.5	1.62735
96.30	111.67	0.08547	-61.6	412.9	1.92154
91.30	119.54	0.09050	-62.0	418.3	2.16959
86.20	117.38	0.09583	-62.0	425.3	2.25640
81.80	90.38	0.09957	-61.6	432.6	1.83083
77.20	82.97	0.10336	-61.4	440.3	1.78081
72.80	82.70	0.10719	-61.1	448.2	1.88228
68.30	89.81	0.11172	-61.1	456.5	2.17876
64.00	111.43	0.11744	-60.2	467.0	2.88494
60.50	123.13	0.12291	-59.6	476.0	3.37235
56.90	139.99	0.12969	-58.9	485.9	4.07657
54.00	141.85	0.13554	-58.1	495.2	4.35256
51.00	143.54	0.14202	-57.5	504.8	4.66360
48.50	158.24	0.14830	-56.9	513.5	5.40643
46.60	164.65	0.15350	-56.1	521.3	5.85464
45.10	171.60	0.15793	-55.5	527.6	6.30459
43.60	176.88	0.16265	-55.3	533.2	6.72209
42.30	173.65	0.16680	-55.5	537.4	6.80220
41.00	172.57	0.17106	-55.5	542.2	6.97438
40.00	175.15	0.17447	-55.5	546.0	7.25577
38.80	173.42	0.17864	-55.5	550.8	7.40632
37.70	173.31	0.18258	-55.7	554.9	7.61756
36.70	170.93	0.18621	-56.1	558.1	7.71769

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
35.70	165.97	0.18983	-56.1	562.6	7.70346
34.90	166.94	0.19281	-56.1	566.2	7.92628
34.10	168.89	0.19591	-56.3	569.5	8.20672
33.20	167.72	0.19945	-56.3	573.8	8.37097
32.40	165.58	0.20264	-55.7	579.4	8.46792
31.60	163.36	0.20586	-54.7	586.1	8.56596
30.80	164.43	0.20919	-53.8	593.0	8.84595
30.00	164.88	0.21262	-53.4	598.5	9.10701
29.25	165.33	0.21592	-52.9	604.3	9.36611
28.50	166.82	0.21934	-52.3	610.3	9.69907
27.80	171.06	0.22270	-51.8	616.2	10.19603
27.00	172.12	0.22667	-51.6	621.8	10.56318
26.30	169.49	0.23018	-51.4	627.0	10.67843
25.60	166.77	0.23374	-51.1	632.8	10.79437
25.00	167.29	0.23687	-50.6	638.6	11.08821
24.30	167.19	0.24062	-50.2	644.8	11.40059
23.70	166.16	0.24390	-49.9	650.5	11.61716
23.00	166.18	0.24783	-49.5	657.0	11.97203
22.45	165.54	0.25100	-48.9	663.6	12.21790
21.80	163.47	0.25479	-48.7	669.7	12.42537
21.30	161.36	0.25774	-48.7	674.1	12.55236
20.70	159.29	0.26134	-48.4	680.7	12.75061
20.20	158.16	0.26439	-48.0	686.4	12.97342
19.70	156.51	0.26749	-48.2	690.9	13.16423
19.17	154.91	0.27082	-48.4	695.8	13.38977
18.70	152.89	0.27382	-48.5	700.2	13.54783
18.20	151.41	0.27706	-48.9	704.6	13.78466
17.70	150.80	0.28038	-49.2	709.2	14.11723
17.25	148.81	0.28340	-49.4	713.9	14.29454
16.80	147.18	0.28647	-49.2	719.8	14.51680
16.35	145.56	0.28959	-48.5	727.6	14.75151
15.90	144.45	0.29278	-48.2	734.5	15.05356
15.50	140.79	0.29561	-48.0	740.4	15.05055
15.10	138.20	0.29846	-47.2	748.6	15.16488
14.70	137.49	0.30138	-46.7	756.0	15.49852
14.30	138.79	0.30440	-46.1	764.1	16.08217
13.95	137.05	0.30708	-45.2	772.7	16.27849
13.60	134.75	0.30978	-44.1	782.0	16.41720
13.25	132.73	0.31252	-43.3	790.4	16.59895
12.90	131.14	0.31529	-42.6	799.1	16.84512
12.55	126.54	0.31804	-42.6	805.4	16.70675
12.20	122.34	0.32077	-42.8	811.4	16.61651
11.90	124.07	0.32321	-42.2	819.3	17.27591
11.60	120.58	0.32564	-41.7	826.9	17.22429
11.30	118.58	0.32809	-41.3	834.7	17.38763
11.00	116.28	0.33056	-41.0	842.2	17.51531
10.70	113.13	0.33303	-40.7	849.9	17.51852
10.40	110.97	0.33552	-40.7	856.8	17.68000
10.10	109.59	0.33806	-40.4	865.1	17.97941
9.70	107.61	0.34149	-39.7	877.8	18.38194
9.57	105.13	0.34261	-39.3	882.8	18.20229
9.30	102.33	0.34492	-39.0	891.1	18.23264
9.07	100.65	0.34691	-38.9	898.1	18.38843
8.82	99.58	0.34911	-38.9	905.3	18.70709
8.60	98.94	0.35108	-38.7	912.4	19.06397

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
8.38	97.40	0.35307	-38.3	920.8	19.25859
8.16	96.74	0.35511	-38.2	928.3	19.64534
7.93	93.09	0.35721	-38.0	936.5	19.45230
7.77	90.47	0.35866	-37.9	942.5	19.29378
7.63	86.59	0.35991	-37.7	948.0	18.80375
7.54	84.69	0.36070	-37.6	951.8	18.61254
7.48	86.67	0.36125	-37.6	954.0	19.19921
7.42	86.30	0.36180	-37.5	956.7	19.27287
7.41	85.94	0.36189	-37.1	958.8	19.21729
7.40	84.95	0.36198	-36.9	959.7	19.02117

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
900.00					
887.00	130.47	0.00150	18.3	301.6	0.24373
873.00	118.90	0.00299	16.8	301.4	0.22568
860.00	106.43	0.00425	15.3	301.2	0.20507
848.00	103.42	0.00540	15.1	302.2	0.20209
835.00	101.04	0.00663	15.3	303.7	0.20051
822.00	96.37	0.00783	14.2	304.0	0.19427
811.00	90.11	0.00879	12.8	303.6	0.18412
800.00	82.93	0.00968	11.6	303.5	0.17178
788.50	82.81	0.01063	10.5	303.5	0.17402
777.00	78.01	0.01153	9.1	303.4	0.16636
765.00	73.40	0.01243	8.1	303.7	0.15898
754.00	68.45	0.01322	6.9	303.6	0.15044
742.50	62.40	0.01397	5.8	303.7	0.13926
732.00	55.17	0.01459	4.8	303.9	0.12489
721.00	49.79	0.01519	3.9	304.2	0.11442
711.00	47.31	0.01571	3.3	304.8	0.11025
703.50	45.38	0.01609	2.2	304.5	0.10688
693.50	43.32	0.01658	1.7	305.1	0.10350
683.00	42.40	0.01709	0.5	305.1	0.10287
672.00	42.30	0.01763	-0.5	305.4	0.10431
663.50	43.37	0.01807	-1.3	305.7	0.10831
654.00	44.28	0.01857	-2.1	306.0	0.11219
645.00	46.67	0.01908	-3.0	306.3	0.11990
637.00	48.39	0.01956	-3.8	306.4	0.12588
628.00	47.47	0.02009	-4.6	306.7	0.12524
619.00	44.85	0.02061	-4.8	307.8	0.12006
610.00	40.69	0.02108	-5.0	308.9	0.11054
602.00	37.36	0.02147	-5.4	309.6	0.10284
594.00	33.30	0.02182	-5.9	310.2	0.09290
587.00	30.33	0.02210	-6.1	310.9	0.08561
578.00	29.76	0.02246	-6.5	311.8	0.08531
570.00	31.87	0.02281	-7.2	312.3	0.09266
563.00	32.89	0.02314	-7.4	313.1	0.09681
566.00	34.34	0.02299	-7.8	312.2	0.10052
548.00	33.36	0.02384	-8.3	314.5	0.10088
540.00	31.98	0.02421	-9.1	314.9	0.09812
534.00	31.86	0.02450	-10.0	314.8	0.09887
527.00	29.99	0.02481	-10.9	315.0	0.09429
519.00	30.95	0.02518	-11.5	315.6	0.09881
511.00	31.93	0.02557	-12.4	315.9	0.10352
504.00	33.37	0.02594	-13.1	316.3	0.10972
496.00	33.37	0.02636	-13.9	316.8	0.11148
489.00	34.56	0.02675	-14.6	317.2	0.11710
482.00	34.11	0.02713	-15.2	317.7	0.11727
475.00	33.23	0.02752	-16.0	318.1	0.11594
468.00	32.75	0.02790	-16.7	318.6	0.11595
461.00	30.90	0.02827	-17.6	318.8	0.11106
454.00	30.99	0.02864	-18.3	319.3	0.11311
447.00	32.83	0.02905	-19.0	320.0	0.12170
440.00	34.50	0.02948	-19.8	320.3	0.12993
433.00	38.28	0.02996	-20.4	321.0	0.14649
426.00	39.74	0.03047	-21.1	321.7	0.15458
419.00	38.75	0.03098	-21.7	322.4	0.15323
412.00	36.89	0.03147	-22.5	322.9	0.14836
406.00	33.35	0.03186	-23.4	323.1	0.13609

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
399.00	30.40	0.03227	-24.3	323.6	0.12626
392.50	28.07	0.03264	-25.0	324.1	0.11849
386.00	27.60	0.03300	-26.1	324.2	0.11850
379.50	27.67	0.03337	-27.1	324.5	0.12080
373.00	27.67	0.03375	-27.9	325.1	0.12290
366.00	27.67	0.03416	-28.9	325.5	0.12525
360.00	27.28	0.03452	-29.9	325.7	0.12556
354.00	28.63	0.03490	-31.0	325.9	0.13400
348.00	35.30	0.03538	-31.6	326.6	0.16806
341.50	37.89	0.03594	-32.5	327.1	0.18384
335.00	37.88	0.03652	-33.6	327.5	0.18736
329.00	37.78	0.03705	-34.2	328.3	0.19030
323.00	35.55	0.03757	-35.3	328.5	0.18236
317.50	33.37	0.03802	-36.5	328.4	0.17418
312.00	31.42	0.03846	-37.5	328.7	0.16688
306.00	29.07	0.03890	-38.4	329.2	0.15743
300.00	27.73	0.03934	-39.6	329.5	0.15315
294.00	26.00	0.03975	-40.7	329.8	0.14655
288.00	25.62	0.04017	-41.9	330.1	0.14741
283.00	25.69	0.04052	-42.8	330.5	0.15044
278.00	24.94	0.04087	-43.6	330.9	0.14863
272.00	24.94	0.04130	-44.9	331.2	0.15191
266.00	24.52	0.04174	-46.0	331.7	0.15272
261.00	24.02	0.04210	-47.1	331.9	0.15249
256.00	23.52	0.04245	-48.4	331.8	0.15225
251.00	23.04	0.04281	-49.5	331.9	0.15207
246.00	23.46	0.04319	-50.6	332.3	0.15802
241.00	24.39	0.04358	-51.8	332.4	0.16770
236.00	24.40	0.04399	-53.2	332.3	0.17134
231.80	24.90	0.04434	-54.7	331.7	0.17799
227.00	27.14	0.04479	-55.7	332.2	0.19813
223.00	29.35	0.04520	-57.1	331.8	0.21810
218.00	30.46	0.04574	-58.3	332.0	0.23154
213.00	30.98	0.04631	-59.6	332.2	0.24097
208.00	31.49	0.04690	-60.2	333.5	0.25085
203.60	32.99	0.04746	-61.4	333.8	0.26853
199.00	35.71	0.04810	-61.8	335.2	0.29731
194.80	33.11	0.04866	-62.3	336.5	0.28168
190.00	32.14	0.04929	-63.2	337.4	0.28026
186.50	35.05	0.04981	-64.0	338.0	0.31140
183.00	42.40	0.05044	-64.5	339.0	0.38394
178.50	53.09	0.05149	-64.7	341.0	0.49287
174.00	58.85	0.05267	-65.0	343.1	0.56041
170.70	61.36	0.05360	-66.0	343.3	0.59565
167.00	63.88	0.05471	-66.3	345.0	0.63380
162.70	68.93	0.05613	-66.3	347.6	0.70204
158.00	74.76	0.05786	-65.2	352.3	0.78406
154.80	86.82	0.05926	-64.0	356.5	0.92937
151.00	102.71	0.06127	-63.0	360.7	1.12712
147.20	104.94	0.06339	-61.6	365.8	1.18133
143.00	94.20	0.06554	-60.2	371.2	1.09152
139.50	80.28	0.06711	-60.0	374.2	0.95362
136.00	79.82	0.06871	-60.9	375.3	0.97250
132.50	82.91	0.07042	-60.5	378.9	1.03686
129.00	81.61	0.07214	-60.0	382.6	1.04824

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
126.00	77.24	0.07358	-60.0	385.2	1.01579
123.00	70.90	0.07493	-60.0	387.9	0.95517
120.00	70.43	0.07630	-60.0	390.6	0.97255
117.00	73.94	0.07778	-60.0	393.5	1.04713
114.00	81.31	0.07945	-60.0	396.4	1.18180
111.00	94.37	0.08143	-60.2	399.0	1.40870
108.00	112.93	0.08388	-60.5	401.7	1.73270
105.00	121.70	0.08658	-60.9	404.1	1.92054
102.40	129.47	0.08915	-61.4	406.2	2.09512
99.40	131.84	0.09224	-61.6	409.2	2.19781
96.70	136.37	0.09521	-61.8	412.0	2.33680
94.20	140.23	0.09811	-61.8	415.1	2.46667
91.50	141.20	0.10135	-62.0	418.1	2.55698
89.00	139.84	0.10441	-62.3	420.9	2.60353
86.80	134.43	0.10706	-62.3	423.9	2.56620
84.50	128.08	0.10978	-61.8	428.2	2.51153
82.00	112.50	0.11245	-61.4	432.8	2.27333
80.00	111.11	0.11461	-61.1	436.3	2.30134
77.50	102.69	0.11719	-60.9	440.8	2.19566
75.20	97.50	0.11951	-60.9	444.6	2.14827
73.20	104.18	0.12172	-60.9	448.0	2.35822
71.00	114.59	0.12448	-61.1	451.5	2.67441
69.00	133.61	0.12750	-61.4	454.7	3.20865
67.00	153.22	0.13106	-61.4	458.5	3.78931
65.00	190.34	0.13561	-61.1	463.0	4.85222
63.00	205.25	0.14068	-60.7	468.1	5.39841
61.00	194.67	0.14563	-60.2	473.5	5.28798
59.20	185.05	0.15001	-59.8	478.5	5.17953
57.50	174.60	0.15403	-59.1	484.0	5.03148
55.70	172.62	0.15836	-58.3	490.3	5.13528
54.00	174.95	0.16264	-57.7	496.1	5.36848
52.00	177.37	0.16793	-57.1	502.9	5.65204
50.60	179.82	0.17180	-56.9	507.3	5.88873
48.90	176.91	0.17658	-56.1	514.2	5.99479
47.30	173.52	0.18114	-55.9	519.6	6.07857
45.80	170.12	0.18546	-55.5	525.3	6.15476
44.20	166.72	0.19014	-55.5	530.7	6.25000
42.60	174.99	0.19524	-55.3	536.8	6.80657
40.90	182.88	0.20112	-55.3	543.1	7.40926
39.60	190.68	0.20598	-55.5	547.6	7.97853
38.10	188.73	0.21174	-55.1	554.7	8.20793
36.60	191.23	0.21780	-54.3	563.0	8.65760
35.00	189.28	0.22448	-53.2	573.2	8.96088
33.50	187.87	0.23098	-52.3	582.8	9.29247
32.00	184.99	0.23767	-51.8	591.9	9.57886
30.50	183.52	0.24462	-51.8	600.1	9.97030
29.20	181.15	0.25085	-52.1	606.6	10.27939
27.70	178.22	0.25828	-52.9	613.8	10.66104
26.40	175.80	0.26495	-53.0	621.8	11.03430
25.00	173.36	0.27241	-51.8	635.1	11.49015
23.90	170.52	0.27846	-50.7	646.4	11.82243
22.70	166.61	0.28524	-51.2	654.5	12.16166
21.70	162.81	0.29103	-51.4	662.4	12.43188
20.80	159.88	0.29638	-50.6	673.1	12.73649
19.85	153.09	0.30203	-50.0	683.7	12.77900

Table 31 (continued)

WASHINGTON,D.C. 6/9/70 1530Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
19.00	145.26	0.30705	-50.0	692.3	12.66822
18.22	142.88	0.31178	-50.4	699.6	12.99424
17.50	143.79	0.31635	-49.2	711.5	13.61441
16.75	143.87	0.32133	-47.7	725.2	14.23234
16.10	144.78	0.32585	-46.3	738.1	14.90054
15.40	142.81	0.33087	-46.1	748.1	15.36548
14.80	137.52	0.33518	-45.2	759.8	15.39691
14.20	133.47	0.33954	-44.6	770.9	15.57513
13.70	129.68	0.34321	-43.8	781.4	15.68459
13.15	123.59	0.34721	-43.2	792.7	15.57337
12.60	124.76	0.35142	-42.5	805.0	16.40629
12.20	123.43	0.35456	-41.6	815.6	16.76357
11.80	118.95	0.35769	-41.0	825.4	16.70356
11.35	115.03	0.36123	-41.0	834.6	16.79407
10.95	112.23	0.36440	-40.7	844.3	16.98290
10.60	109.30	0.36721	-40.0	854.8	17.08628
10.25	106.68	0.37004	-39.3	865.7	17.24545
10.00	103.35	0.37205	-39.4	871.3	17.12554
9.70	100.68	0.37447	-39.6	878.3	17.19944
9.45	99.62	0.37653	-39.3	886.0	17.46733
9.20	98.67	0.37862	-39.1	893.3	17.77112
8.95	96.45	0.38071	-39.0	900.9	17.85714
8.70	95.81	0.38286	-39.0	908.3	18.24772
8.50	91.78	0.38454	-38.6	916.0	17.89114
8.27	89.77	0.38649	-38.2	924.8	17.98598
8.10	87.52	0.38792	-38.0	930.9	17.90369
7.90	87.21	0.38964	-38.2	937.0	18.29306
7.77	85.34	0.39076	-38.2	941.4	18.19842
7.65	86.57	0.39182	-37.7	947.3	18.75154
7.57	86.00	0.39254	-37.7	950.1	18.82400
7.50	85.57	0.39317	-37.5	953.8	18.90618
7.45	85.89	0.39362	-36.9	957.8	19.10284
7.42	85.26	0.39389	-36.9	958.9	19.03996
7.40	84.95	0.39407	-36.9	959.7	19.02117

Table 32

WASHINGTON,D.C. 8/5/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1004.00	23.8	15.8	11.19614	296.7		
1003.50	22.7	15.8	11.20182	295.6	0.00571377	0.00571377
1002.00	21.4	14.3	10.14330	294.4	0.01633555	0.02204932
990.00	20.7	14.3	10.26828	294.7	0.12496887	0.14701819
978.00	19.8	14.3	10.39638	294.8	0.12651832	0.27353651
962.00	18.6	14.3	10.57223	295.0	0.17117231	0.44470882
945.00	17.5	14.3	10.76571	295.4	0.18507397	0.62978279
930.00	16.3	14.3	10.94241	295.6	0.16613354	0.79591633
913.00	15.3	17.5	13.72256	296.1	0.21393081	1.00984714
897.00	13.9	12.8	10.31433	296.1	0.19621953	1.20606667
884.60	13.2	8.9	8.05067	296.6	0.11618674	1.32225341
878.00	12.9	7.8	7.48830	296.9	0.05232509	1.37457849
870.00	12.4	8.9	8.18755	297.2	0.06398305	1.43856154
862.00	12.1	8.9	8.26454	297.6	0.06715140	1.50571294
855.00	11.5	10.2	9.05846	297.7	0.06186787	1.56758081
848.00	10.8	8.9	8.40283	297.7	0.06236175	1.62994257
840.00	10.2	8.9	8.48395	297.9	0.06892563	1.69886820
833.00	9.6	7.8	7.89796	297.9	0.05850684	1.75737504
825.20	9.0	7.8	7.97358	298.1	0.06316225	1.82053729
818.00	8.2	6.7	7.44906	298.0	0.05665459	1.87719187
810.00	7.8	6.7	7.52352	298.4	0.06111259	1.93830446
800.00	7.2	5.6	7.07499	298.8	0.07448220	2.01278666
790.50	6.6	4.6	6.66769	299.2	0.06660990	2.07939656
782.00	6.2	5.6	7.23974	299.7	0.06031280	2.13970936
773.60	5.9	6.7	7.88201	300.3	0.06480749	2.20451684
766.00	5.4	7.8	8.59833	300.7	0.06390336	2.26842020
759.00	5.2	7.8	8.67874	301.1	0.06170380	2.33012400
753.00	5.0	6.7	8.10045	301.7	0.05136485	2.38148885
746.50	5.9	4.6	7.06515	303.3	0.05029410	2.43178295
740.00	6.9	-7.4	2.74366	305.2	0.03252924	2.46431218
734.00	7.1	-4.3	3.62595	306.1	0.01949881	2.48381100
728.00	6.9	0.1	5.24518	306.7	0.02715653	2.51096753
722.00	6.6	0.9	5.61976	307.1	0.03326002	2.54422755
716.00	6.3	2.7	6.43491	307.5	0.03690204	2.58112959
710.00	5.9	2.7	6.48986	307.7	0.03956561	2.62069520
703.00	5.2	2.7	6.55516	307.8	0.04658934	2.66728454
696.00	4.7	3.6	7.07842	308.2	0.04869135	2.71597589
690.00	4.1	4.6	7.65079	308.3	0.04508943	2.76106532
684.00	3.6	2.7	6.73922	308.5	0.04405106	2.80511638
678.00	3.0	1.8	6.37445	308.6	0.04014389	2.84526027
672.00	2.6	0.9	6.04196	308.9	0.03800941	2.88326968
666.00	2.3	0.1	5.73798	309.4	0.03606102	2.91933070
659.30	1.9	0.1	5.79683	309.8	0.03943022	2.95876092
653.00	1.2	0.9	6.21951	309.9	0.03862397	2.99738489
646.70	0.8	0.9	6.28072	310.3	0.04017931	3.03756420
641.00	0.1	0.9	6.33713	310.3	0.03669477	3.07425897
635.00	-0.3	0.9	6.39763	310.6	0.03898397	3.11324294
629.00	-0.7	0.9	6.45929	311.0	0.03935791	3.15260085
623.30	-1.1	0.1	6.13494	311.4	0.03662608	3.18922693
618.00	-1.5	-2.2	5.15807	311.7	0.03053722	3.21976415
612.00	-1.8	-6.9	3.49679	312.2	0.02649445	3.24625860
606.00	-1.8	-16.8	1.43171	313.1	0.01508722	3.26134583
600.00	-1.7	-17.2	1.39539	314.1	0.00865437	3.27000020
595.00	-1.5	-18.3	1.26807	315.1	0.00679455	3.27679474
589.00	-1.5	-19.0	1.19793	316.0	0.00754898	3.28434373

Table 32 (continued)

WASHINGTON,D.C. 8/5/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
583.00	-1.8	-20.7	1.03099	316.6	0.00682322	3.29116694
577.00	-2.1	-22.2	0.89577	317.2	0.00589825	3.29706520
572.00	-2.9	-22.5	0.87763	317.1	0.00452399	3.30158919
566.30	-3.1	-21.6	0.96852	317.6	0.00536891	3.30695809
561.00	-3.9	-21.9	0.94894	317.6	0.00518497	3.31214306
555.00	-4.4	-21.9	0.95922	317.9	0.00584130	3.31798436
549.00	-5.2	-21.9	0.96972	318.0	0.00590490	3.32388926
544.00	-5.9	-21.9	0.97864	318.1	0.00497030	3.32885956
539.00	-6.5	-22.2	0.95902	318.1	0.00494302	3.33380258
533.60	-6.9	-22.5	0.94089	318.6	0.00523444	3.33903702
528.00	-7.4	-24.8	0.76119	318.9	0.00486307	3.34390008
522.00	-7.9	-26.8	0.62690	319.4	0.00424923	3.34814932
516.00	-8.4	-23.4	0.89317	319.8	0.00465326	3.35280257
511.00	-9.2	-20.0	1.25298	319.8	0.00547485	3.35827742
506.00	-10.0	-23.1	0.93693	319.8	0.00558650	3.36386393
501.00	-10.6	-24.8	0.80226	319.9	0.00443672	3.36830065
494.00	-10.8	-25.6	0.75191	320.9	0.00555061	3.37385126
488.70	-12.0	-26.1	0.72202	320.5	0.00398562	3.37783688
483.00	-12.5	-24.3	0.87830	320.9	0.00465400	3.38249088
478.00	-13.1	-24.5	0.86378	321.1	0.00444409	3.38693496
473.00	-13.5	-23.4	0.97449	321.6	0.00468947	3.39162443
467.70	-13.8	-26.6	0.71738	322.2	0.00457496	3.39619939
462.00	-14.3	-29.4	0.54629	322.7	0.00367495	3.39987434
457.00	-14.8	-30.4	0.49439	323.1	0.00265480	3.40252914
452.00	-15.6	-32.2	0.41367	323.2	0.00231648	3.40484562
447.00	-16.1	-32.6	0.40171	323.6	0.00208003	3.40692566
442.00	-16.7	-33.5	0.36800	323.8	0.00196355	3.40888920
437.00	-16.9	-38.1	0.22516	324.6	0.00151317	3.41040238
432.00	-17.2	-37.4	0.24779	325.3	0.00120649	3.41160887
427.00	-17.9	-36.6	0.27332	325.5	0.00132935	3.41293822
422.00	-18.6	-35.5	0.31339	325.8	0.00149670	3.41443492
417.00	-19.3	-35.8	0.30587	325.9	0.00157972	3.41601464
412.00	-19.9	-36.8	0.27837	326.2	0.00149040	3.41750504
407.00	-20.7	-37.7	0.25423	326.4	0.00135868	3.41886372
402.00	-20.9	-42.8	0.14487	327.3	0.00101811	3.41988183
397.00	-21.5	-43.0	0.14255	327.6	0.00073321	3.42061503
393.00	-22.2	-43.7	0.13231	327.7	0.00056094	3.42117597
388.30	-23.0	-43.8	0.13206	327.7	0.00063395	3.42180992
384.00	-23.8	-44.2	0.12811	327.8	0.00057077	3.42238069
379.00	-24.6	-45.0	0.11801	328.0	0.00062784	3.42300853
374.00	-24.9	-45.6	0.11187	328.8	0.00058641	3.42359494
369.50	-25.9	-45.7	0.11174	328.6	0.00051339	3.42410833
365.00	-26.7	-46.2	0.10595	328.7	0.00049981	3.42460814
360.40	-27.5	-46.9	0.09932	328.9	0.00048177	3.42508990
356.00	-28.4	-47.5	0.09320	328.8	0.00043219	3.42552209
351.80	-29.1	-47.9	0.08971	328.9	0.00039195	3.42591404
347.00	-29.7	-48.4	0.08551	329.5	0.00042913	3.42634316
342.50	-30.1	-49.1	0.07957	330.2	0.00037902	3.42672218
338.00	-30.7	-49.6	0.07595	330.5	0.00035706	3.42707924
333.00	-31.2	-50.6	0.06853	331.2	0.00036856	3.42744780
328.00	-31.6	-51.0	0.06566	332.1	0.00034233	3.42779013
324.00	-32.3	-53.0	0.05189	332.4	0.00023990	3.42803002
319.00	-32.8	-53.9	0.04724	333.1	0.00025287	3.42828290
315.00	-33.6	-53.9	0.04733	333.2	0.00019299	3.42847589
310.00	-34.6	-54.2	0.04656	333.4	0.00023949	3.42871538

Table 32 (continued)

WASHINGTON,D.C. 8/5/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
306.00	-35.3	-54.6	0.04470	333.7	0.00018624	3.42890162
302.00	-36.1	-55.2	0.04204	333.8	0.00017703	3.42907865
297.00	-37.1	-55.7	0.04013	334.0	0.00020964	3.42928829
292.50	-37.9	-56.2	0.03828	334.2	0.00018002	3.42946831
288.20	-38.5	-56.7	0.03613	334.8	0.00016323	3.42963154
284.00	-39.1	-57.2	0.03447	335.4	0.00015129	3.42978283
280.00	-39.4	-57.3	0.03426	336.4	0.00014026	3.42992309
276.00	-39.9	-57.8	0.03269	336.9	0.00013663	3.43005971
271.70	-40.4	-58.5	0.03032	337.8	0.00013825	3.43019796
267.00	-40.8	-59.5	0.02710	338.8	0.00013768	3.43033564
262.70	-41.1	-60.7	0.02328	340.0	0.00011052	3.43044616
258.00	-41.7	-61.3	0.02171	340.8	0.00010788	3.43055405
254.00	-42.3	-61.7	0.02100	341.5	0.00008716	3.43064120
250.00	-42.6	-62.4	0.01936	342.6	0.00008237	3.43072357
246.00	-43.1	-63.0	0.01804	343.5	0.00007632	3.43079989
242.00	-43.7	-63.8	0.01649	344.2	0.00007046	3.43087036
238.00	-44.2	-64.3	0.01568	345.1	0.00006565	3.43093600
234.00	-44.8	-65.2	0.01395	345.8	0.00006046	3.43099647
230.30	-45.3	-65.7	0.01314	346.7	0.00005114	3.43104761
227.00	-45.9	-65.9	0.01308	347.1	0.00004414	3.43109175
222.50	-46.6	-66.7	0.01191	348.1	0.00005736	3.43114911
218.00	-47.1	-67.4	0.01094	349.4	0.00005246	3.43120157
214.60	-47.6	-68.0	0.01010	350.2	0.00003651	3.43123809
211.00	-48.4	-68.4	0.00980	350.5	0.00003655	3.43127464
207.20	-48.9	-68.6	0.00960	351.6	0.00003761	3.43131225
203.00	-49.8	-68.7	0.00971	352.2	0.00004137	3.43135363
200.00	-50.5	-69.0	0.00939	352.6	0.00002923	3.43138285
197.00	-51.1	-69.4	0.00900	353.3	0.00002814	3.43141100
193.00	-51.8	-69.5	0.00910	354.2	0.00003692	3.43144792
189.00	-52.3	-69.5	0.00929	355.4	0.00003752	3.43148544
185.80	-52.9	-69.6	0.00936	356.3	0.00003044	3.43151588
182.50	-53.7	-69.5	0.00962	356.8	0.00003195	3.43154783
179.30	-53.9	-69.7	0.00951	358.3	0.00003123	3.43157907
176.00	-54.1	-70.6	0.00846	359.9	0.00003025	3.43160932
172.80	-54.4	-71.4	0.00758	361.2	0.00002619	3.43163551
169.50	-54.8	-72.3	0.00680	362.5	0.00002421	3.43165972
166.50	-55.4	-73.4	0.00583	363.4	0.00001933	3.43167904
163.00	-55.8	-73.9	0.00549	364.9	0.00002022	3.43169926
160.60	-56.3	-74.8	0.00487	365.8	0.00001269	3.43171195
158.00	-56.9	-75.5	0.00441	366.4	0.00001232	3.43172427
155.00	-57.7	-76.1	0.00409	367.0	0.00001301	3.43173728
152.00	-58.4	-76.6	0.00387	367.9	0.00001217	3.43174945
149.00	-58.6	-76.6	0.00394	369.6	0.00001195	3.43176140
146.50	-58.8	-76.8	0.00392	371.1	0.00001003	3.43177143
143.50	-59.0	-77.4	0.00363	372.9	0.00001156	3.43178300
140.50	-59.3	-77.6	0.00359	374.7	0.00001104	3.43179404
137.80	-59.9	-77.5	0.00370	375.6	0.00001003	3.43180407
135.00	-61.1	-77.5	0.00377	375.8	0.00001067	3.43181475
132.50	-62.1	-77.3	0.00397	376.1	0.00000988	3.43182463
130.00	-62.6	-77.0	0.00423	377.2	0.00001047	3.43183510
127.20	-63.1	-76.8	0.00447	378.7	0.00001243	3.43184753
124.50	-63.1	-76.7	0.00467	381.0	0.00001259	3.43186012
122.00	-62.8	-76.8	0.00471	383.7	0.00001196	3.43187209
119.50	-61.6	-77.2	0.00446	388.2	0.00001169	3.43188378
117.00	-60.9	-79.1	0.00339	391.9	0.00001001	3.43189379

Table 32 (continued)

WASHINGTON,D.C. 8/5/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
114.50	-60.2	-79.7	0.00312	395.6	0.00000831	3.43190211
112.00	-59.9	-80.1	0.00301	398.5	0.00000782	3.43190992
109.50	-59.9	-80.5	0.00286	401.1	0.00000749	3.43191741
107.20	-60.4	-80.7	0.00282	402.7	0.00000667	3.43192408
105.00	-60.9	-81.0	0.00274	404.2	0.00000624	3.43193032
102.50	-61.8	-81.0	0.00281	405.2	0.00000708	3.43193739
100.00	-61.1	-81.1	0.00284	409.4	0.00000721	3.43194460
97.90	-60.6	-81.2	0.00283	412.8	0.00000608	3.43195068
95.80	-60.4	-81.4	0.00282	415.8	0.00000606	3.43195674
93.60	-60.2	-81.5	0.00282	419.1	0.00000633	3.43196307
91.50	-60.2	-81.8	0.00274	421.8	0.00000596	3.43196903
89.40	-59.9	-82.1	0.00270	425.0	0.00000583	3.43197485
87.20	-59.7	-82.4	0.00263	428.5	0.00000598	3.43198084
85.10	-59.0	-82.8	0.00252	432.9	0.00000552	3.43198636
83.00	-58.4	-83.0	0.00249	437.3	0.00000537	3.43199173
80.90	-57.5	-83.2	0.00245	442.3	0.00000529	3.43199702
79.00	-57.1	-83.4	0.00244	446.2	0.00000475	3.43200177
77.00	-57.1	-83.5	0.00244	449.5	0.00000499	3.43200675
75.00	-57.1	-83.5	0.00251	452.9	0.00000505	3.43201180
73.10	-57.1	-83.6	0.00254	456.2	0.00000489	3.43201669
71.10	-57.1	-83.7	0.00257	459.9	0.00000521	3.43202191
69.30	-57.1	-83.8	0.00260	463.2	0.00000475	3.43202666
67.50	-56.7	-84.0	0.00257	467.6	0.00000475	3.43203141
65.70	-56.5	-84.1	0.00260	471.7	0.00000474	3.43203615
63.90	-55.8	-84.3	0.00260	476.8	0.00000478	3.43204093
62.20	-55.4	-84.3	0.00263	481.4	0.00000454	3.43204547
60.40	-54.2	-84.4	0.00267	488.1	0.00000488	3.43205034
58.50	-53.3	-84.5	0.00272	494.8	0.00000523	3.43205558
56.80	-52.3	-84.6	0.00277	501.1	0.00000476	3.43206034
55.10	-52.3	-84.8	0.00277	505.5	0.00000480	3.43206514
53.50	-52.0	-84.8	0.00281	510.6	0.00000456	3.43206970
51.90	-50.9	-84.9	0.00286	517.6	0.00000463	3.43207433
50.30	-50.0	-85.0	0.00291	524.4	0.00000471	3.43207904
48.80	-50.5	-85.2	0.00291	527.6	0.00000445	3.43208349
47.30	-50.9	-85.4	0.00288	531.5	0.00000443	3.43208792
45.90	-50.7	-85.8	0.00279	536.5	0.00000405	3.43209197
44.40	-50.5	-85.9	0.00280	542.1	0.00000428	3.43209625
43.00	-50.5	-86.1	0.00281	547.1	0.00000401	3.43210026
41.50	-50.3	-86.3	0.00282	553.1	0.00000431	3.43210457
40.20	-50.3	-86.5	0.00278	558.1	0.00000372	3.43210829
38.80	-50.5	-86.8	0.00275	563.4	0.00000396	3.43211225
37.30	-50.9	-87.1	0.00273	568.8	0.00000420	3.43211644
35.80	-51.4	-87.2	0.00276	574.1	0.00000420	3.43212065
34.40	-51.1	-87.6	0.00269	581.7	0.00000389	3.43212454
33.00	-50.5	-87.9	0.00267	590.0	0.00000383	3.43212837
31.80	-50.2	-88.1	0.00268	597.3	0.00000328	3.43213165
30.50	-49.8	-88.4	0.00262	605.4	0.00000351	3.43213516
29.00	-48.9	-88.5	0.00270	616.6	0.00000407	3.43213923
27.70	-48.4	-88.8	0.00269	626.2	0.00000358	3.43214281
26.50	-48.4	-89.3	0.00258	634.1	0.00000323	3.43214604
25.50	-48.3	-89.6	0.00254	641.6	0.00000261	3.43214865
24.50	-47.4	-89.8	0.00255	651.4	0.00000260	3.43215124
23.60	-46.9	-90.1	0.00251	659.9	0.00000232	3.43215357
22.70	-46.4	-90.4	0.00246	668.7	0.00000228	3.43215585
21.80	-45.6	-90.6	0.00247	678.9	0.00000227	3.43215811

Table 32 (continued)

WASHINGTON,D.C. 8/5/70 1620Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
21.10	-45.3	-90.8	0.00246	686.2	0.00000176	3.43215987
20.30	-45.3	-90.9	0.00251	693.9	0.00000203	3.43216190
19.55	-45.0	-91.2	0.00245	702.3	0.00000190	3.43216380
18.90	-44.6	-91.4	0.00244	710.1	0.00000162	3.43216542
18.25	-44.0	-91.5	0.00248	719.3	0.00000163	3.43216705
17.60	-43.2	-91.7	0.00252	729.2	0.00000166	3.43216871
17.05	-42.3	-91.9	0.00250	738.8	0.00000141	3.43217012
16.50	-41.7	-92.0	0.00253	747.7	0.00000141	3.43217153
16.00	-41.0	-92.2	0.00250	756.7	0.00000128	3.43217281
15.40	-40.5	-92.4	0.00249	766.5	0.00000153	3.43217434
15.00	-40.2	-92.7	0.00245	773.3	0.00000101	3.43217535
14.50	-40.4	-92.8	0.00249	780.3	0.00000126	3.43217661
14.04	-40.7	-92.9	0.00251	786.5	0.00000117	3.43217778
13.60	-40.5	-93.0	0.00254	794.2	0.00000113	3.43217892
13.25	-40.5	-93.1	0.00255	800.2	0.00000091	3.43217982
12.90	-40.7	-93.3	0.00251	805.8	0.00000090	3.43218073
12.55	-40.8	-93.6	0.00246	811.6	0.00000089	3.43218161
12.20	-40.7	-93.8	0.00242	818.7	0.00000087	3.43218249
11.95	-40.4	-93.9	0.00242	824.7	0.00000062	3.43218310
11.70	-40.7	-94.6	0.00216	828.6	0.00000058	3.43218369
11.46	-40.8	-94.8	0.00213	833.0	0.00000053	3.43218421
11.20	-40.4	-94.8	0.00218	840.1	0.00000057	3.43218478
10.95	-39.4	-95.0	0.00215	849.2	0.00000055	3.43218534
10.70	-39.2	-95.2	0.00212	855.4	0.00000055	3.43218588
10.50	-38.9	-95.4	0.00209	861.1	0.00000043	3.43218631
10.30	-38.8	-95.6	0.00205	866.3	0.00000042	3.43218673
10.10	-38.6	-95.6	0.00209	871.7	0.00000042	3.43218716
9.93	-38.3	-95.6	0.00213	877.0	0.00000037	3.43218752
9.77	-37.9	-95.6	0.00216	882.7	0.00000035	3.43218787

Table 33

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1004.00					
1003.50	83.38	0.00003	23.8	296.7	0.13767
1002.00	82.82	0.00013	21.4	294.4	0.13696
990.00	84.66	0.00094	20.7	294.7	0.14170
978.00	86.97	0.00177	19.8	294.8	0.14735
962.00	87.87	0.00292	18.6	295.0	0.15135
945.00	77.28	0.00401	17.5	295.4	0.13551
930.00	74.09	0.00494	16.3	295.6	0.13201
913.00	75.77	0.00605	15.3	296.1	0.13752
897.00	75.14	0.00709	13.9	296.1	0.13880
880.00	67.99	0.00812	13.1	296.9	0.12803
865.00	54.42	0.00886	12.7	298.0	0.10425
850.00	48.84	0.00953	11.6	298.3	0.09521
834.00	49.74	0.01028	10.4	298.6	0.09882
819.00	48.49	0.01098	8.8	298.6	0.09811
805.00	48.85	0.01164	7.5	298.6	0.10056
789.00	50.45	0.01244	6.5	299.2	0.10596
774.50	51.34	0.01319	5.6	299.9	0.10984
759.00	50.10	0.01399	6.6	302.7	0.10937
745.00	47.81	0.01469	7.8	305.6	0.10633
731.00	44.88	0.01537	7.5	306.9	0.10174
716.50	43.78	0.01606	6.9	308.1	0.10125
703.00	43.30	0.01671	6.0	308.8	0.10206
692.00	42.43	0.01724	4.9	308.9	0.10161
677.00	43.02	0.01798	3.9	309.7	0.10530
664.00	42.36	0.01863	2.6	310.0	0.10570
650.00	41.55	0.01933	1.6	310.8	0.10592
637.00	40.52	0.01998	0.4	311.1	0.10540
624.00	39.35	0.02062	-1.0	311.4	0.10450
611.00	39.11	0.02127	-2.5	311.6	0.10608
597.00	41.84	0.02203	-3.0	313.0	0.11613
585.00	46.40	0.02278	-2.5	315.5	0.13143
573.00	47.68	0.02356	-2.7	317.1	0.13789
561.80	45.27	0.02426	-3.8	317.6	0.13351
549.00	42.48	0.02504	-5.1	318.2	0.12820
537.50	41.44	0.02573	-6.6	318.2	0.12775
526.00	41.44	0.02644	-7.9	318.7	0.13054
514.00	40.40	0.02717	-8.7	319.9	0.13024
502.00	37.78	0.02788	-9.8	320.6	0.12470
490.00	39.31	0.02863	-11.1	321.3	0.13292
478.00	42.90	0.02947	-12.3	322.1	0.14872
467.00	41.99	0.03024	-13.5	322.8	0.14897
455.00	37.83	0.03102	-14.8	323.5	0.13778
445.00	36.25	0.03165	-16.2	323.8	0.13499
434.00	36.36	0.03237	-17.6	324.4	0.13881
424.50	37.50	0.03303	-18.8	324.9	0.14640
414.00	38.90	0.03380	-19.9	325.8	0.15570
404.00	39.63	0.03456	-21.0	326.6	0.16255
394.00	39.60	0.03535	-22.4	327.2	0.16656
384.50	40.63	0.03613	-23.8	327.7	0.17511
376.00	38.03	0.03680	-25.1	328.1	0.16760
366.00	35.04	0.03755	-26.6	328.6	0.15866
356.00	31.60	0.03824	-27.9	329.5	0.14706
347.50	30.15	0.03881	-29.3	329.9	0.14377
338.00	34.73	0.03957	-30.4	330.9	0.17027
330.00	38.74	0.04030	-31.9	331.2	0.19453

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
321.00	46.14	0.04131	-33.2	332.0	0.23820
312.50	42.79	0.04222	-34.3	333.0	0.22689
303.50	33.49	0.04299	-35.4	334.3	0.18285
295.50	32.78	0.04368	-36.9	334.7	0.18379
288.00	29.93	0.04429	-38.5	334.9	0.17220
280.00	31.79	0.04500	-39.6	335.9	0.18814
272.00	38.80	0.04589	-40.7	337.3	0.23635
264.70	37.88	0.04670	-41.4	338.8	0.23715
257.00	31.73	0.04744	-42.0	340.8	0.20457
249.50	26.44	0.04806	-42.5	343.0	0.17560
242.00	25.42	0.04867	-42.9	345.3	0.17403
235.00	28.45	0.04933	-43.9	346.8	0.20062
227.00	24.81	0.05001	-45.3	348.1	0.18109
220.50	18.71	0.05044	-46.4	349.2	0.14059
213.00	13.51	0.05081	-47.4	351.2	0.10511
207.00	11.18	0.05106	-48.6	352.2	0.08948
200.00	11.33	0.05137	-49.8	353.7	0.09387
193.70	14.53	0.05173	-51.1	355.0	0.12427
187.00	19.51	0.05227	-52.7	355.9	0.17284
181.40	21.81	0.05280	-54.2	356.5	0.19927
176.00	25.12	0.05340	-54.8	358.6	0.23654
170.50	24.03	0.05400	-56.1	359.9	0.23356
164.00	22.38	0.05469	-56.9	362.5	0.22610
158.50	18.13	0.05518	-57.7	364.6	0.18950
153.00	12.97	0.05554	-58.4	367.2	0.14044
148.50	14.44	0.05588	-59.0	369.2	0.16116
143.00	13.88	0.05629	-59.9	371.7	0.16088
138.00	13.82	0.05668	-60.4	374.7	0.16593
133.00	18.95	0.05723	-61.3	377.0	0.23611
129.00	16.90	0.05764	-62.8	377.6	0.21709
125.00	18.41	0.05810	-62.3	381.9	0.24403
121.20	25.30	0.05871	-61.3	387.1	0.34586
118.00	49.62	0.05976	-61.1	390.5	0.69682
112.50	54.85	0.06183	-60.9	396.3	0.80788
108.50	49.25	0.06324	-60.6	400.9	0.75210
104.50	47.53	0.06465	-60.4	405.6	0.75371
100.70	46.50	0.06601	-60.2	410.4	0.76508
97.30	53.30	0.06745	-59.9	414.9	0.90777
93.80	53.09	0.06899	-60.2	418.8	0.93785
91.00	52.53	0.07024	-61.1	420.6	0.95644
88.20	56.68	0.07164	-61.3	423.9	1.06485
85.60	60.49	0.07307	-61.6	427.0	1.17087
83.00	64.07	0.07463	-60.9	432.3	1.27913
80.90	64.75	0.07594	-59.9	437.4	1.32620
78.70	66.08	0.07738	-58.8	443.1	1.39130
76.90	66.74	0.07860	-58.4	447.0	1.43817
75.00	71.40	0.08001	-57.9	451.1	1.57753
73.20	84.25	0.08163	-57.1	456.1	1.90713
71.50	90.76	0.08331	-56.5	460.5	2.10340
69.90	94.09	0.08499	-56.3	463.9	2.23034
68.20	94.32	0.08682	-56.3	467.2	2.29167
66.70	77.48	0.08819	-56.3	470.1	1.92479
65.20	73.72	0.08951	-56.3	473.2	1.87347
63.80	83.26	0.09094	-56.7	475.2	2.16236
62.40	104.02	0.09276	-56.5	478.7	2.76231

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
60.80	94.30	0.09469	-56.1	483.2	2.57012
59.50	100.93	0.09641	-55.6	487.1	2.81086
58.30	136.30	0.09861	-54.8	491.8	3.87389
57.10	125.56	0.10067	-54.6	495.1	3.64362
55.90	119.99	0.10268	-54.2	499.0	3.55688
54.70	113.59	0.10463	-53.9	503.0	3.44100
53.50	114.82	0.10664	-53.7	506.7	3.55630
52.20	123.85	0.10904	-53.7	510.3	3.93132
51.10	123.93	0.11113	-52.0	517.3	4.01875
50.00	135.24	0.11345	-50.7	523.6	4.48170
48.80	141.05	0.11616	-50.5	527.6	4.78918
47.60	142.86	0.11897	-50.5	531.4	4.97298
46.50	142.40	0.12159	-50.3	535.4	5.07448
45.50	141.87	0.12403	-50.0	539.6	5.16653
44.30	140.51	0.12699	-49.8	544.2	5.25569
43.30	141.38	0.12954	-49.6	548.2	5.41022
42.10	144.79	0.13276	-49.5	553.0	5.69867
41.20	148.75	0.13529	-49.3	556.9	5.98252
40.40	150.48	0.13762	-49.6	559.1	6.17178
39.40	152.65	0.14064	-49.8	562.7	6.41996
38.50	158.45	0.14353	-49.8	566.4	6.81931
37.50	160.16	0.14686	-49.8	570.7	7.07707
36.70	155.47	0.14951	-50.2	573.3	7.01934
35.80	151.40	0.15248	-51.2	574.6	7.00775
34.90	151.40	0.15552	-51.6	577.9	7.18847
34.00	156.37	0.15875	-50.9	584.1	7.62076
33.20	154.11	0.16164	-50.7	588.6	7.69174
32.40	146.01	0.16446	-51.1	591.7	7.46741
31.60	151.41	0.16745	-50.9	596.4	7.93966
30.90	153.66	0.17016	-50.2	602.2	8.24020
30.20	152.76	0.17293	-49.5	608.1	8.38181
29.40	153.21	0.17617	-49.3	613.2	8.63502
28.70	152.77	0.17908	-49.1	617.9	8.82019
28.00	152.78	0.18206	-48.9	622.8	9.04102
27.40	153.22	0.18468	-48.8	627.1	9.26605
26.70	153.14	0.18781	-48.4	632.8	9.50362
26.10	153.14	0.19056	-48.3	637.4	9.72260
25.40	145.20	0.19367	-47.6	644.3	9.47227
24.80	145.15	0.19641	-47.1	650.1	9.69780
24.20	141.62	0.19915	-47.1	654.7	9.69709
23.60	144.62	0.20202	-52.2	644.6	10.15429
23.00	142.38	0.20491	-46.6	665.7	10.25745
22.40	143.61	0.20791	-46.4	671.3	10.62356
21.90	144.41	0.21049	-46.6	675.1	10.92630
21.40	149.16	0.21320	-46.7	679.1	11.54927
20.90	145.61	0.21592	-46.6	684.2	11.54425
20.35	142.56	0.21892	-46.4	689.9	11.60836
19.90	144.77	0.22148	-45.9	695.8	12.05416
19.37	142.20	0.22451	-45.8	701.7	12.16432
18.90	140.08	0.22723	-45.9	706.2	12.28081
18.45	139.60	0.22988	-46.3	710.0	12.53790
18.00	135.21	0.23252	-45.9	716.1	12.44639
17.58	133.91	0.23502	-45.8	721.4	12.62155
17.20	136.07	0.23736	-45.1	728.0	13.10856
16.70	137.77	0.24057	-43.9	738.2	13.66956

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
16.30	137.72	0.24321	-43.2	745.4	14.00028
15.84	131.67	0.24619	-42.6	753.5	13.77433
15.50	124.26	0.24831	-42.0	760.2	13.28327
15.15	123.25	0.25054	-41.4	767.2	13.47970
14.80	124.62	0.25284	-41.1	773.3	13.95255
14.55	124.03	0.25450	-40.8	778.1	14.12481
14.10	124.03	0.25758	-40.5	786.1	14.57561
13.75	122.88	0.26002	-39.8	794.2	14.80830
13.40	122.11	0.26251	-39.4	801.6	15.09982
13.10	122.04	0.26469	-39.6	805.8	15.43710
12.80	113.64	0.26677	-39.6	811.2	14.71059
12.50	113.57	0.26889	-39.6	816.7	15.05535
12.20	112.90	0.27106	-39.5	822.9	15.33377
11.90	112.59	0.27327	-39.4	829.3	15.67679
11.60	111.20	0.27551	-39.4	835.3	15.88505
11.30	107.51	0.27774	-39.2	842.1	15.76502
11.00	104.12	0.27995	-39.1	849.2	15.68461
10.77	101.83	0.28165	-39.4	853.2	15.66665
10.50	99.96	0.28365	-39.4	859.5	15.77464
10.25	97.44	0.28551	-39.4	865.4	15.75171
10.00	95.17	0.28736	-39.2	872.1	15.77010
9.75	92.93	0.28922	-39.1	878.9	15.79251
9.50	91.57	0.29110	-38.9	886.0	15.97233
9.30	89.23	0.29260	-38.1	894.7	15.89825
9.13	83.91	0.29382	-37.8	900.5	15.22940
9.00	80.25	0.29473	-37.2	906.4	14.77536
8.90	76.14	0.29540	-36.9	910.4	14.17644
8.85	76.58	0.29574	-36.5	913.5	14.33734
8.83	75.72	0.29587	-36.2	915.1	14.20953
8.82	73.30	0.29594	-36.2	915.4	13.77110

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
900.00					
892.00	85.74	0.00060	13.9	296.5	0.15928
884.60	83.98	0.00116	13.2	296.6	0.15732
878.00	83.40	0.00165	12.9	296.9	0.15740
870.00	82.65	0.00225	12.4	297.2	0.15742
862.00	80.94	0.00284	12.1	297.6	0.15559
855.00	78.57	0.00334	11.5	297.7	0.15227
848.00	76.57	0.00384	10.8	297.7	0.14963
840.00	74.01	0.00439	10.2	297.9	0.14598
833.00	73.18	0.00488	9.6	297.9	0.14557
825.20	70.02	0.00540	9.0	298.1	0.14059
818.00	71.43	0.00589	8.2	298.0	0.14470
810.00	71.04	0.00644	7.8	298.4	0.14531
800.00	70.47	0.00713	7.2	298.8	0.14595
790.50	69.63	0.00779	6.6	299.2	0.14596
782.00	67.92	0.00837	6.2	299.7	0.14391
773.60	69.51	0.00896	5.9	300.3	0.14888
766.00	70.26	0.00951	5.4	300.7	0.15199
759.00	70.62	0.01002	5.2	301.1	0.15417
753.00	70.84	0.01047	5.0	301.7	0.15589
746.50	67.79	0.01093	5.9	303.3	0.15047
740.00	60.58	0.01135	6.9	305.2	0.13564
734.00	60.37	0.01174	7.1	306.1	0.13628
728.00	58.91	0.01212	6.9	306.7	0.13409
722.00	55.45	0.01248	6.6	307.1	0.12725
716.00	57.96	0.01286	6.3	307.5	0.13413
710.00	59.06	0.01326	5.9	307.7	0.13784
703.00	59.06	0.01372	5.2	307.8	0.13922
696.00	57.19	0.01417	4.7	308.2	0.13615
690.00	53.75	0.01454	4.1	308.3	0.12908
684.00	50.95	0.01489	3.6	308.5	0.12343
678.00	47.82	0.01522	3.0	308.6	0.11687
672.00	45.72	0.01554	2.6	308.9	0.11274
666.00	43.81	0.01585	2.3	309.4	0.10899
659.30	43.29	0.01620	1.9	309.8	0.10879
653.00	42.57	0.01652	1.2	309.9	0.10803
646.70	42.15	0.01684	0.8	310.3	0.10799
641.00	40.19	0.01712	0.1	310.3	0.10388
635.00	38.49	0.01741	-0.3	310.6	0.10045
629.00	37.73	0.01769	-0.7	311.0	0.09939
623.30	36.70	0.01796	-1.1	311.4	0.09756
618.00	37.47	0.01821	-1.5	311.7	0.10045
612.00	43.80	0.01855	-1.8	312.2	0.11859
606.00	47.71	0.01892	-1.8	313.1	0.13045
600.00	49.01	0.01930	-1.7	314.1	0.13534
595.00	49.42	0.01963	-1.5	315.1	0.13763
589.00	49.26	0.02002	-1.5	316.0	0.13859
583.00	48.95	0.02042	-1.8	316.6	0.13912
577.00	48.32	0.02081	-2.1	317.2	0.13877
572.00	48.01	0.02114	-2.9	317.1	0.13907
566.30	47.78	0.02152	-3.1	317.6	0.13981
561.00	46.87	0.02187	-3.9	317.6	0.13844
555.00	46.28	0.02226	-4.4	317.9	0.13818
549.00	45.37	0.02265	-5.2	318.0	0.13695
544.00	43.75	0.02297	-5.9	318.1	0.13326
539.00	41.92	0.02327	-6.5	318.1	0.12886

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
533.60	38.33	0.02358	-6.9	318.6	0.11902
528.00	36.44	0.02388	-7.4	318.9	0.11437
522.00	37.42	0.02422	-7.9	319.4	0.11880
516.00	35.64	0.02454	-8.4	319.8	0.11444
511.00	33.54	0.02480	-9.2	319.8	0.10877
506.00	33.52	0.02506	-10.0	319.8	0.10978
501.00	34.52	0.02533	-10.6	319.9	0.11418
494.00	35.95	0.02573	-10.8	320.9	0.12059
488.70	35.04	0.02603	-12.0	320.5	0.11882
483.00	34.27	0.02635	-12.5	320.9	0.11756
478.00	34.15	0.02663	-13.1	321.1	0.11840
473.00	35.93	0.02693	-13.5	321.6	0.12587
467.70	37.81	0.02726	-13.8	322.2	0.13396
462.00	38.11	0.02763	-14.3	322.7	0.13669
457.00	38.87	0.02797	-14.8	323.1	0.14095
452.00	40.60	0.02832	-15.6	323.2	0.14883
447.00	42.61	0.02869	-16.1	323.6	0.15795
442.00	43.14	0.02908	-16.7	323.8	0.16174
437.00	40.39	0.02944	-16.9	324.6	0.15314
432.00	39.21	0.02980	-17.2	325.3	0.15040
427.00	38.32	0.03015	-17.9	325.5	0.14871
422.00	36.98	0.03049	-18.6	325.8	0.14521
417.00	34.73	0.03082	-19.3	325.9	0.13802
412.00	35.30	0.03116	-19.9	326.2	0.14196
407.00	41.30	0.03155	-19.9	327.4	0.16816
402.00	47.92	0.03202	-20.9	327.3	0.19750
397.00	51.75	0.03253	-21.5	327.6	0.21598
393.00	46.70	0.03291	-22.2	327.7	0.19688
388.30	43.18	0.03332	-23.0	327.7	0.18426
384.00	43.12	0.03370	-23.8	327.8	0.18607
379.00	43.80	0.03415	-24.6	328.0	0.19148
374.00	44.38	0.03461	-24.9	328.8	0.19662
369.50	41.77	0.03501	-25.9	328.6	0.18734
365.00	39.96	0.03540	-26.7	328.7	0.18139
360.40	39.06	0.03579	-27.5	328.9	0.17960
356.00	36.10	0.03614	-28.4	328.8	0.16804
351.80	35.06	0.03647	-29.1	328.9	0.16516
347.00	33.94	0.03684	-29.7	329.5	0.16208
342.50	38.18	0.03723	-30.1	330.2	0.18469
338.00	41.88	0.03767	-30.7	330.5	0.20529
333.00	44.03	0.03819	-31.2	331.2	0.21910
328.00	41.04	0.03868	-31.6	332.1	0.20732
324.00	31.40	0.03898	-32.3	332.4	0.16057
319.00	29.04	0.03934	-32.8	333.1	0.15086
315.00	28.62	0.03962	-33.6	333.2	0.15055
310.00	26.58	0.03996	-34.6	333.4	0.14208
306.00	25.72	0.04022	-35.3	333.7	0.13927
302.00	26.60	0.04050	-36.1	333.8	0.14592
297.00	28.64	0.04088	-37.1	334.0	0.15976
292.50	29.86	0.04124	-37.9	334.2	0.16916
288.20	31.24	0.04160	-38.5	334.8	0.17962
284.00	31.69	0.04197	-39.1	335.4	0.18488
280.00	38.38	0.04240	-39.4	336.4	0.22716
276.00	39.17	0.04284	-39.9	336.9	0.23517
271.70	38.28	0.04332	-40.4	337.8	0.23345

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
267.00	32.49	0.04377	-40.8	338.8	0.20163
262.70	30.85	0.04416	-41.1	340.0	0.19458
258.00	29.21	0.04458	-41.7	340.8	0.18758
254.00	27.21	0.04491	-42.3	341.5	0.17752
250.00	25.99	0.04524	-42.6	342.6	0.17224
246.00	25.54	0.04556	-43.1	343.5	0.17201
242.00	27.26	0.04592	-43.7	344.2	0.18662
238.00	26.36	0.04626	-44.2	345.1	0.18351
234.00	22.01	0.04656	-44.8	345.8	0.15583
230.30	19.88	0.04681	-45.3	346.7	0.14303
227.00	16.86	0.04700	-45.9	347.1	0.12309
222.50	14.70	0.04723	-46.6	348.1	0.10948
218.00	13.24	0.04745	-47.1	349.4	0.10063
214.60	11.35	0.04759	-47.6	350.2	0.08765
211.00	10.70	0.04773	-48.4	350.5	0.08401
207.20	10.29	0.04788	-48.9	351.6	0.08232
203.00	10.70	0.04805	-49.8	352.2	0.08737
200.00	10.75	0.04818	-50.5	352.6	0.08906
197.00	10.82	0.04831	-51.1	353.3	0.09103
193.00	12.78	0.04851	-51.8	354.2	0.10973
189.00	15.56	0.04877	-52.3	355.4	0.13639
185.80	19.17	0.04903	-52.9	356.3	0.17096
182.50	24.23	0.04937	-53.7	356.8	0.22002
179.30	25.96	0.04973	-53.9	358.3	0.23991
176.00	26.87	0.05013	-54.1	359.9	0.25301
172.80	26.08	0.05051	-54.4	361.2	0.25006
169.50	23.73	0.05087	-54.8	362.5	0.23201
166.50	21.74	0.05117	-55.4	363.4	0.21640
163.00	20.85	0.05152	-55.8	364.9	0.21192
160.60	18.33	0.05174	-56.3	365.8	0.18910
158.00	17.37	0.05196	-56.9	366.4	0.18216
155.00	16.92	0.05222	-57.7	367.0	0.18086
152.00	15.97	0.05247	-58.4	367.9	0.17404
149.00	16.49	0.05272	-58.6	369.6	0.18333
146.50	18.22	0.05297	-58.8	371.1	0.20613
143.50	20.57	0.05330	-59.0	372.9	0.23754
140.50	21.40	0.05366	-59.3	374.7	0.25240
137.80	22.22	0.05400	-59.9	375.6	0.26720
135.00	23.87	0.05439	-61.1	375.8	0.29302
132.50	25.31	0.05476	-62.1	376.1	0.31655
130.00	25.41	0.05514	-62.6	377.2	0.32393
127.20	25.43	0.05558	-63.1	378.7	0.33124
124.50	27.67	0.05605	-63.1	381.0	0.36830
122.00	32.39	0.05657	-62.8	383.7	0.43991
119.50	49.64	0.05738	-61.6	388.2	0.68827
117.00	70.42	0.05856	-60.9	391.9	0.99738
114.50	73.28	0.05981	-60.2	395.6	1.06044
112.00	71.69	0.06106	-59.9	398.5	1.06070
109.50	71.39	0.06233	-59.9	401.1	1.08024
107.20	69.80	0.06350	-60.4	402.7	1.07888
105.00	66.49	0.06459	-60.9	404.2	1.04935
102.50	66.08	0.06584	-61.8	405.2	1.06821
100.00	63.58	0.06708	-61.1	409.4	1.05347
97.90	61.31	0.06811	-60.6	412.8	1.03778
95.80	64.64	0.06922	-60.4	415.8	1.11805

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
93.60	70.86	0.07052	-60.2	419.1	1.25437
91.50	76.39	0.07189	-60.2	421.8	1.38330
89.40	82.32	0.07339	-59.9	425.0	1.52570
87.20	85.03	0.07507	-59.7	428.5	1.61578
85.10	88.48	0.07677	-59.0	432.9	1.72279
83.00	90.14	0.07855	-58.4	437.3	1.79950
80.90	92.63	0.08042	-57.5	442.3	1.89718
79.00	91.80	0.08214	-57.1	446.2	1.92541
77.00	92.21	0.08401	-57.1	449.5	1.98435
75.00	96.75	0.08602	-57.1	452.9	2.13753
73.10	98.10	0.08801	-57.1	456.2	2.22378
71.10	96.15	0.09012	-57.1	459.9	2.24072
69.30	95.24	0.09204	-57.1	463.2	2.27729
67.50	94.02	0.09400	-56.7	467.6	2.30795
65.70	94.43	0.09601	-56.5	471.7	2.38161
63.90	98.10	0.09816	-55.8	476.8	2.54394
62.20	104.38	0.10039	-55.4	481.4	2.78066
60.40	117.16	0.10310	-54.2	488.1	3.21414
58.50	124.87	0.10625	-53.3	494.8	3.53683
56.80	136.87	0.10944	-52.3	501.1	3.99277
55.10	139.39	0.11279	-52.3	505.5	4.19190
53.50	143.49	0.11612	-52.0	510.6	4.44426
51.90	149.74	0.11971	-50.9	517.6	4.78063
50.30	153.11	0.12350	-50.0	524.4	5.04380
48.80	156.48	0.12724	-50.5	527.6	5.31336
47.30	160.28	0.13119	-50.9	531.5	5.61478
45.90	163.14	0.13506	-50.7	536.5	5.88932
44.40	162.30	0.13932	-50.5	542.1	6.05683
43.00	161.43	0.14340	-50.5	547.1	6.22068
41.50	162.27	0.14795	-50.3	553.1	6.47908
40.20	159.33	0.15195	-50.3	558.1	6.56737
38.80	157.24	0.15635	-50.5	563.4	6.71508
37.30	158.52	0.16129	-50.9	568.8	7.04192
35.80	162.74	0.16656	-51.4	574.1	7.53255
34.40	160.63	0.17162	-51.1	581.7	7.73734
33.00	161.07	0.17691	-50.5	590.0	8.08790
31.80	165.96	0.18176	-50.2	597.3	8.64760
30.50	171.56	0.18741	-49.8	605.4	9.32026
29.00	174.76	0.19437	-48.9	616.6	9.98528
27.70	169.55	0.20051	-48.4	626.2	10.14236
26.50	160.87	0.20614	-48.4	634.1	10.05923
25.50	152.34	0.21076	-48.3	641.6	9.89912
24.50	153.11	0.21560	-47.4	651.4	10.35520
23.60	156.09	0.22021	-46.9	659.9	10.95912
22.70	162.38	0.22520	-46.4	668.7	11.85277
21.80	166.63	0.23052	-45.6	678.9	12.66518
21.10	161.01	0.23467	-45.3	686.2	12.64450
20.30	157.60	0.23948	-45.3	693.9	12.86431
19.55	150.74	0.24396	-45.0	702.3	12.77641
18.90	140.93	0.24772	-44.6	710.1	12.35539
18.25	140.96	0.25162	-44.0	719.3	12.79852
17.60	144.74	0.25576	-43.2	729.2	13.62653
17.05	139.12	0.25925	-42.3	738.8	13.52036
16.50	134.40	0.26273	-41.7	747.7	13.49724
16.00	129.16	0.26587	-41.0	756.7	13.37635

Table 33 (continued)

WASHINGTON,D.C. 8/5/70 1630Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
15.40	123.81	0.26960	-40.5	766.5	13.32159
15.00	119.97	0.27209	-40.2	773.3	13.25243
14.50	117.08	0.27523	-40.4	780.3	13.37945
14.04	109.59	0.27802	-40.7	786.5	12.93385
13.60	111.59	0.28082	-40.5	794.2	13.59586
13.25	108.58	0.28306	-40.5	800.2	13.57923
12.90	108.82	0.28536	-40.7	805.8	13.97816
12.55	107.00	0.28768	-40.8	811.6	14.12756
12.20	104.10	0.29001	-40.7	818.7	14.13864
11.95	102.71	0.29169	-40.4	824.7	14.24200
11.70	101.16	0.29337	-40.7	828.6	14.32716
11.46	98.50	0.29499	-40.8	833.0	14.24242
11.20	95.73	0.29672	-40.4	840.1	14.16365
10.95	92.99	0.29838	-39.4	849.2	14.07137
10.70	89.28	0.30001	-39.2	855.4	13.82568
10.50	84.97	0.30127	-38.9	861.1	13.40854
10.30	81.95	0.30252	-38.8	866.3	13.18402
10.10	80.29	0.30376	-38.6	871.7	13.17278
9.93	77.87	0.30480	-38.3	877.0	12.99426
9.77	76.25	0.30578	-37.9	882.7	12.93196
9.62	75.98	0.30671	-37.2	889.3	13.08744
9.47	77.05	0.30767	-36.9	894.4	13.48235
9.29	74.09	0.30879	-36.5	900.9	13.21433
9.22	75.76	0.30924	-36.2	903.9	13.61461
9.10	76.46	0.31003	-36.0	908.3	13.92270
9.02	76.73	0.31057	-36.0	910.6	14.09559
8.95	76.63	0.31104	-36.1	912.1	14.18770
8.89	76.53	0.31144	-36.2	913.3	14.26505
8.85	73.73	0.31171	-36.2	914.5	13.80432
8.82	73.73	0.31190	-36.2	915.4	13.85127

Table 34

WASHINGTON,D.C. 9/16/70 1515Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1000.00	29.1	17.4	12.41753	302.2		
992.00	28.2	17.4	12.51969	302.1	0.10178459	0.10178459
980.00	28.0	15.9	11.51180	302.9	0.14713159	0.24891618
969.00	27.0	14.5	10.62500	302.9	0.12423713	0.37315331
959.00	26.2	14.5	10.73770	303.0	0.10899335	0.48214667
949.00	25.2	15.9	11.89504	302.9	0.11547316	0.59761983
938.00	24.4	14.5	10.98234	303.1	0.12839346	0.72601329
927.00	23.5	15.9	12.18287	303.1	0.13000882	0.85602211
917.00	22.7	14.5	11.23839	303.3	0.11949621	0.97551832
906.00	22.0	14.5	11.37733	303.6	0.12692499	1.10244331
896.00	20.7	14.5	11.50666	303.2	0.11675509	1.21919841
886.00	20.0	17.4	14.05137	303.4	0.13039813	1.34959654
877.00	19.1	13.1	10.77459	303.4	0.11399676	1.46359330
866.00	18.2	11.9	10.03729	303.6	0.11680139	1.58039469
856.00	17.7	11.9	10.15647	304.0	0.10302938	1.68342408
846.00	17.0	10.7	9.48600	304.3	0.10021668	1.78364076
835.00	16.8	14.5	12.36398	305.3	0.12262746	1.90626822
825.00	16.1	11.9	10.54457	305.6	0.11688037	2.02314859
816.00	15.8	10.7	9.84027	306.2	0.09360388	2.11675247
804.00	15.3	3.7	6.15255	307.0	0.09791522	2.21466768
796.00	15.0	-1.0	4.44202	307.5	0.04324315	2.25791083
786.00	14.8	-3.6	3.59719	308.5	0.04101640	2.29892723
777.00	14.6	-7.6	2.57554	309.3	0.02834418	2.32727141
768.00	14.3	-3.6	3.68200	310.0	0.02873361	2.35600501
758.00	13.7	-4.8	3.36182	310.4	0.03593787	2.39194289
749.00	13.5	-10.6	2.05942	311.3	0.02489348	2.41683637
739.00	12.9	-9.1	2.36928	311.8	0.02259543	2.43943179
730.00	12.2	-8.1	2.62023	312.2	0.02291102	2.46234281
720.00	11.3	-6.5	3.05335	312.4	0.02894682	2.49128964
711.00	10.6	-5.4	3.40918	312.8	0.02967486	2.52096449
702.00	9.7	-7.1	2.98732	313.0	0.02937167	2.55033616
692.00	9.1	-8.1	2.76475	313.6	0.02934732	2.57968348
682.00	8.6	-8.6	2.68307	314.4	0.02779499	2.60747847
673.50	7.9	-11.5	2.11309	314.7	0.02079965	2.62827812
664.00	7.6	-14.7	1.58941	315.6	0.01794578	2.64622390
655.00	7.7	-15.9	1.45303	317.0	0.01397040	2.66019431
647.00	7.6	-19.8	1.01028	317.9	0.01005434	2.67024865
638.00	6.6	-20.4	0.96720	318.0	0.00908028	2.67932893
628.00	5.5	-22.7	0.78971	318.3	0.00896386	2.68829278
619.00	5.2	-23.2	0.76065	319.3	0.00711902	2.69541180
610.00	4.8	-24.2	0.69774	320.1	0.00669671	2.70210851
602.00	3.8	-32.7	0.29656	320.2	0.00405838	2.70616688
592.00	3.1	-27.7	0.50723	320.9	0.00410099	2.71026788
584.00	2.5	-25.9	0.61598	321.5	0.00458456	2.71485244
576.00	2.0	-26.8	0.56979	322.1	0.00483989	2.71969232
568.00	1.4	-27.2	0.55252	322.7	0.00458084	2.72427316
559.00	0.4	-27.0	0.57408	323.1	0.00517316	2.72944632
551.00	-0.1	-29.1	0.46947	323.7	0.00425939	2.73370571
543.00	-0.8	-29.7	0.44789	324.3	0.00374434	2.73745005
535.00	-1.7	-31.1	0.39555	324.5	0.00344264	2.74089269
528.00	-2.1	-29.3	0.47990	325.3	0.00312660	2.74401929
519.00	-2.9	-32.3	0.35697	325.9	0.00384275	2.74786204
511.00	-3.7	-32.5	0.35590	326.4	0.00290968	2.75077171
503.00	-4.7	-32.1	0.37527	326.7	0.00298436	2.75375607
497.00	-5.8	-33.0	0.34636	326.4	0.00220906	2.75596513

Table 34 (continued)

WASHINGTON,D.C. 9/16/70 1515Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
489.50	-6.6	-33.8	0.32155	326.9	0.00255577	2.75852090
482.00	-7.7	-34.5	0.30452	327.1	0.00239566	2.76091656
475.00	-8.8	-35.1	0.28858	327.0	0.00211821	2.76303476
468.00	-9.3	-35.9	0.26942	327.7	0.00199287	2.76502763
461.00	-10.1	-36.6	0.25211	328.2	0.00186261	2.76689025
454.00	-10.1	-39.9	0.17741	329.6	0.00153401	2.76842426
447.00	-10.2	-27.5	0.68687	331.0	0.00308675	2.77151100
440.00	-11.2	-26.4	0.78086	331.2	0.00524192	2.77675293
433.00	-12.2	-27.0	0.74134	331.4	0.00543643	2.78218935
427.00	-13.2	-27.2	0.73518	331.4	0.00451994	2.78670929
420.00	-14.3	-27.9	0.69978	331.7	0.00512484	2.79183414
414.00	-15.3	-33.5	0.39397	331.8	0.00334821	2.79518234
407.50	-16.0	-47.0	0.08662	332.3	0.00159381	2.79677615
401.00	-16.9	-48.5	0.07297	332.7	0.00052927	2.79730542
395.00	-18.0	-47.3	0.08623	332.7	0.00048735	2.79779277
389.00	-18.9	-44.8	0.11743	333.0	0.00062344	2.79841621
383.00	-19.7	-48.5	0.07640	333.4	0.00059335	2.79900955
377.00	-20.6	-44.5	0.12586	333.7	0.00061917	2.79962873
371.00	-21.6	-44.0	0.13637	333.9	0.00080276	2.80043149
365.00	-22.6	-45.7	0.11325	334.2	0.00076416	2.80119565
359.00	-23.6	-46.0	0.11097	334.4	0.00068640	2.80188205
353.00	-24.6	-45.7	0.11710	334.7	0.00069819	2.80258023
347.50	-25.2	-43.7	0.14942	335.3	0.00074790	2.80332813
342.00	-26.0	-45.4	0.12545	335.8	0.00077133	2.80409946
336.00	-26.8	-48.1	0.09228	336.5	0.00066652	2.80476598
330.00	-27.8	-49.6	0.07824	336.8	0.00052199	2.80528797
324.50	-28.7	-49.9	0.07607	337.2	0.00043302	2.80572098
319.00	-29.6	-49.8	0.07826	337.6	0.00043307	2.80615405
313.00	-30.5	-50.7	0.07139	338.2	0.00045810	2.80661215
307.00	-31.4	-47.3	0.11095	338.7	0.00055819	2.80717034
302.00	-32.2	-39.8	0.27066	339.2	0.00097350	2.80814383
297.00	-32.9	-39.5	0.28340	339.9	0.00141341	2.80955725
292.00	-34.1	-41.8	0.22320	339.8	0.00129234	2.81084959
287.00	-35.2	-42.7	0.20374	340.0	0.00108912	2.81193871
282.00	-36.4	-43.1	0.19923	339.9	0.00102798	2.81296669
277.00	-37.4	-43.3	0.19754	340.2	0.00101217	2.81397886
272.00	-38.7	-43.6	0.19341	340.2	0.00099733	2.81497619
267.00	-39.5	-45.3	0.16271	340.7	0.00090849	2.81588468
262.30	-40.7	-46.4	0.14466	340.8	0.00073708	2.81662177
257.50	-41.4	-47.5	0.12919	341.5	0.00067067	2.81729244
253.00	-42.5	-49.1	0.10799	341.6	0.00054455	2.81783699
248.00	-43.7	-49.5	0.10529	341.8	0.00054408	2.81838107
243.50	-44.6	-49.2	0.11094	342.2	0.00049644	2.81887750
239.00	-45.7	-48.2	0.12824	342.3	0.00054913	2.81942663
234.50	-46.5	-48.2	0.13070	343.0	0.00059450	2.82002114
230.00	-47.4	-49.7	0.10976	343.6	0.00055209	2.82057322
226.00	-48.2	-51.5	0.08964	344.1	0.00040695	2.82098018
222.00	-49.2	-52.5	0.08111	344.3	0.00034848	2.82132865
217.50	-50.2	-53.3	0.07451	344.7	0.00035729	2.82168594
213.00	-51.1	-54.3	0.06648	345.4	0.00032371	2.82200965
209.00	-52.2	-55.6	0.05757	345.5	0.00025317	2.82226281
205.00	-53.2	-56.8	0.05050	346.0	0.00022055	2.82248336
201.00	-54.1	-57.6	0.04619	346.5	0.00019734	2.82268070
197.00	-54.7	-58.4	0.04231	347.5	0.00018063	2.82286133
193.00	-55.5	-59.8	0.03557	348.3	0.00015894	2.82302027

Table 34 (continued)

WASHINGTON,D.C. 9/16/70 1515Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
189.00	-56.5	-60.4	0.03363	348.8	0.00014121	2.82316148
185.50	-57.3	-61.7	0.02856	349.3	0.00011104	2.82327252
181.50	-58.2	-62.5	0.02628	350.1	0.00011191	2.82338444
177.50	-59.0	-64.0	0.02179	350.9	0.00009811	2.82348255
173.00	-59.9	-64.9	0.01976	352.0	0.00009540	2.82357794
169.00	-60.8	-65.6	0.01821	352.9	0.00007748	2.82365543
165.00	-62.0	-66.0	0.01778	353.3	0.00007345	2.82372888
161.50	-63.2	-66.5	0.01683	353.4	0.00006180	2.82379068
158.00	-64.2	-66.7	0.01671	354.0	0.00005989	2.82385057
154.70	-65.8	-67.7	0.01477	353.4	0.00005301	2.82390358
151.50	-66.9	-69.0	0.01242	353.6	0.00004439	2.82394797
147.50	-68.4	-69.1	0.01251	353.9	0.00005087	2.82399884
144.00	-69.3	-69.1	0.01294	354.7	0.00004544	2.82404428
140.80	-69.9	-69.6	0.01223	355.9	0.00004109	2.82408537
138.00	-71.1	-72.0	0.00870	355.7	0.00002990	2.82411527
135.00	-71.1	-74.2	0.00637	358.0	0.00002307	2.82413834
132.00	-71.5	-75.6	0.00525	359.7	0.00001778	2.82415613
129.00	-72.1	-75.9	0.00514	360.9	0.00001590	2.82417202
126.00	-72.8	-76.1	0.00509	362.1	0.00001565	2.82418767
123.50	-74.3	-76.7	0.00469	361.5	0.00001247	2.82420015
121.00	-75.0	-78.0	0.00389	362.3	0.00001094	2.82421109
118.00	-75.4	-78.4	0.00376	364.2	0.00001170	2.82422279
115.00	-75.8	-77.7	0.00429	366.2	0.00001231	2.82423511
112.50	-74.6	-76.9	0.00498	370.6	0.00001182	2.82424692
110.00	-72.8	-76.8	0.00521	376.4	0.00001299	2.82425991
107.60	-72.1	-76.6	0.00545	380.1	0.00001304	2.82427295
105.00	-72.1	-77.4	0.00492	382.7	0.00001375	2.82428670
102.50	-72.1	-77.9	0.00470	385.4	0.00001227	2.82429897
100.00	-72.1	-78.0	0.00470	388.1	0.00001199	2.82431097
97.50	-72.5	-78.1	0.00477	390.2	0.00001208	2.82432305
95.00	-73.2	-78.1	0.00489	391.8	0.00001233	2.82433538
92.60	-73.2	-78.2	0.00490	394.7	0.00001200	2.82434737
90.00	-71.1	-79.1	0.00437	401.9	0.00001230	2.82435967
87.90	-69.6	-80.0	0.00385	407.8	0.00000881	2.82436848
85.50	-67.8	-81.0	0.00340	414.7	0.00000888	2.82437736
83.40	-66.4	-81.4	0.00326	420.5	0.00000713	2.82438449
81.20	-65.8	-81.7	0.00318	424.9	0.00000723	2.82439172
79.10	-65.3	-82.2	0.00301	429.2	0.00000663	2.82439834
77.00	-64.5	-82.6	0.00284	434.1	0.00000627	2.82440461
75.00	-63.7	-82.8	0.00284	439.0	0.00000580	2.82441041
72.90	-63.2	-83.1	0.00280	443.6	0.00000604	2.82441646
71.00	-62.2	-83.4	0.00272	449.1	0.00000535	2.82442180
68.90	-61.5	-83.6	0.00272	454.5	0.00000582	2.82442763
67.00	-61.3	-83.6	0.00276	458.6	0.00000531	2.82443294
65.20	-60.8	-83.7	0.00279	463.2	0.00000510	2.82443803
63.30	-60.4	-83.8	0.00283	468.2	0.00000545	2.82444349
61.50	-60.1	-83.9	0.00287	472.6	0.00000524	2.82444873
59.60	-60.4	-84.2	0.00284	476.3	0.00000554	2.82445427
58.00	-59.9	-84.3	0.00283	481.0	0.00000463	2.82445889
56.40	-59.2	-84.5	0.00282	486.4	0.00000462	2.82446351
54.80	-58.6	-84.6	0.00286	491.9	0.00000464	2.82446815
53.20	-58.2	-84.9	0.00282	497.1	0.00000464	2.82447279
51.30	-57.3	-85.0	0.00283	504.3	0.00000548	2.82447827
49.80	-56.9	-85.0	0.00292	509.6	0.00000440	2.82448267
48.10	-56.5	-85.2	0.00293	515.6	0.00000507	2.82448775

Table 34 (continued)

WASHINGTON,D.C. 9/16/70 1515Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
46.60	-56.1	-85.4	0.00293	521.3	0.00000449	2.82449223
45.00	-55.3	-85.6	0.00294	528.5	0.00000479	2.82449703
43.60	-54.9	-85.8	0.00294	534.2	0.00000420	2.82450123
42.20	-54.7	-85.9	0.00294	539.7	0.00000420	2.82450544
40.80	-54.5	-86.1	0.00295	545.4	0.00000421	2.82450964
39.50	-54.3	-86.2	0.00300	551.0	0.00000394	2.82451358
38.20	-53.0	-86.4	0.00300	559.7	0.00000397	2.82451756
36.80	-52.0	-86.6	0.00301	568.0	0.00000429	2.82452185
35.50	-51.9	-86.8	0.00302	574.4	0.00000400	2.82452585
34.30	-51.7	-87.0	0.00302	580.5	0.00000370	2.82452954
33.20	-51.7	-87.3	0.00296	586.0	0.00000336	2.82453290
32.10	-51.5	-87.7	0.00286	592.1	0.00000327	2.82453617
30.80	-51.3	-87.9	0.00288	599.6	0.00000381	2.82453998
29.50	-51.1	-88.0	0.00295	607.6	0.00000387	2.82454385
28.50	-50.8	-88.2	0.00295	614.6	0.00000301	2.82454686
27.30	-50.2	-88.3	0.00302	623.6	0.00000366	2.82455051
26.30	-50.1	-88.6	0.00297	630.8	0.00000306	2.82455357
25.20	-50.2	-88.9	0.00293	638.1	0.00000331	2.82455688
24.20	-50.1	-89.1	0.00294	646.0	0.00000300	2.82455988
23.20	-50.1	-89.3	0.00295	653.8	0.00000301	2.82456289
22.20	-50.2	-89.8	0.00280	661.6	0.00000294	2.82456583
21.30	-50.4	-89.9	0.00286	668.9	0.00000260	2.82456843
20.20	-50.2	-90.1	0.00290	679.7	0.00000324	2.82457166
19.30	-49.0	-90.5	0.00286	692.3	0.00000264	2.82457431
18.40	-48.2	-90.9	0.00276	704.5	0.00000258	2.82457689
17.60	-47.5	-91.3	0.00271	715.6	0.00000223	2.82457912
16.80	-46.9	-91.4	0.00278	727.3	0.00000224	2.82458136
16.10	-46.2	-91.5	0.00284	738.3	0.00000200	2.82458336
15.45	-45.6	-91.6	0.00289	749.2	0.00000190	2.82458526
14.80	-45.1	-91.9	0.00289	760.0	0.00000192	2.82458718
14.20	-44.8	-92.1	0.00288	770.1	0.00000177	2.82458895
13.60	-44.2	-92.2	0.00294	781.8	0.00000178	2.82459073
13.10	-43.8	-92.5	0.00292	791.3	0.00000149	2.82459222
12.60	-43.5	-92.7	0.00290	801.2	0.00000148	2.82459371
12.20	-43.4	-92.8	0.00292	809.2	0.00000119	2.82459489
11.80	-43.2	-93.3	0.00275	817.5	0.00000116	2.82459605
11.30	-43.1	-93.7	0.00267	828.2	0.00000138	2.82459743
10.90	-42.9	-93.8	0.00270	837.3	0.00000109	2.82459853
10.55	-42.8	-93.8	0.00278	845.7	0.00000098	2.82459950
10.20	-42.5	-94.1	0.00274	855.1	0.00000099	2.82460049
9.80	-42.5	-94.5	0.00263	864.9	0.00000110	2.82460159
9.50	-42.5	-94.5	0.00272	872.6	0.00000082	2.82460240
9.20	-42.2	-94.5	0.00280	881.8	0.00000085	2.82460325
8.87	-41.9	-94.9	0.00270	892.2	0.00000093	2.82460418
8.60	-41.4	-95.5	0.00248	901.9	0.00000071	2.82460489
8.37	-41.3	-95.9	0.00236	909.5	0.00000057	2.82460546
8.13	-41.4	-96.1	0.00234	916.5	0.00000057	2.82460603
7.90	-41.6	-96.1	0.00240	923.4	0.00000056	2.82460659
7.73	-41.4	-96.1	0.00246	929.8	0.00000042	2.82460701

Table 35

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1018.60					
978.00	83.40	0.00268	24.0	299.1	0.14130
955.00	86.82	0.00431	24.2	301.3	0.15063
938.00	79.81	0.00544	24.4	303.1	0.14099
922.00	74.89	0.00646	24.0	304.2	0.13460
912.00	71.77	0.00708	22.9	304.0	0.13039
901.00	70.40	0.00775	21.8	303.9	0.12948
890.00	69.43	0.00842	20.5	303.6	0.12927
876.00	67.78	0.00927	19.3	303.7	0.12821
860.00	66.04	0.01023	18.0	304.0	0.12724
846.00	61.89	0.01104	17.0	304.4	0.12121
832.00	58.23	0.01180	16.1	304.9	0.11597
820.00	54.20	0.01243	15.5	305.5	0.10953
805.50	50.07	0.01313	15.0	306.5	0.10299
792.00	49.53	0.01379	14.3	307.3	0.10363
779.00	46.46	0.01440	14.2	308.6	0.09882
766.00	43.71	0.01498	14.2	310.1	0.09455
752.00	42.54	0.01560	13.3	310.8	0.09375
739.00	41.96	0.01618	12.2	311.1	0.09409
726.00	40.94	0.01675	11.3	311.7	0.09345
713.00	39.19	0.01731	10.8	312.8	0.09108
700.00	37.57	0.01786	9.9	313.4	0.08894
687.00	37.41	0.01841	9.0	314.1	0.09023
674.00	36.33	0.01896	8.1	314.8	0.08932
662.00	35.26	0.01946	7.3	315.6	0.08825
650.00	33.64	0.01994	6.4	316.2	0.08577
636.00	33.64	0.02052	5.5	317.2	0.08765
623.00	33.64	0.02107	4.7	318.1	0.08948
610.00	32.68	0.02161	4.0	319.2	0.08878
598.00	31.51	0.02211	3.0	319.8	0.08731
587.00	31.39	0.02257	2.3	320.7	0.08861
576.00	31.39	0.02304	1.4	321.5	0.09031
564.50	30.22	0.02352	0.5	322.2	0.08871
552.00	28.57	0.02402	-0.8	322.8	0.08578
541.00	25.72	0.02443	-1.6	323.7	0.07879
530.00	25.19	0.02484	-2.4	324.6	0.07874
519.00	25.81	0.02527	-3.4	325.3	0.08241
507.50	26.35	0.02573	-4.2	326.4	0.08604
495.50	26.89	0.02624	-5.6	326.9	0.08993
486.00	27.97	0.02667	-7.1	327.0	0.09537
475.50	27.53	0.02715	-8.6	327.2	0.09592
465.00	27.51	0.02763	-9.7	327.9	0.09802
455.00	26.97	0.02809	-10.7	328.7	0.09820
445.00	24.80	0.02853	-11.2	330.1	0.09235
436.00	23.74	0.02891	-12.1	331.0	0.09023
426.00	22.03	0.02931	-13.7	331.1	0.08570
417.00	21.51	0.02968	-15.2	331.2	0.08548
408.00	20.41	0.03003	-16.5	331.5	0.08289
398.00	19.82	0.03042	-17.9	332.1	0.08251
389.00	22.76	0.03083	-19.3	332.5	0.09697
379.00	20.40	0.03125	-20.5	333.4	0.08918
370.00	22.17	0.03167	-21.6	334.2	0.09930
362.00	26.52	0.03213	-22.9	334.6	0.12137
353.00	30.67	0.03274	-24.1	335.4	0.14395
344.00	31.73	0.03338	-25.2	336.3	0.15284
335.00	30.55	0.03402	-26.7	336.8	0.15111

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
327.00	28.49	0.03457	-28.3	337.0	0.14436
319.00	26.31	0.03508	-29.8	337.3	0.13669
311.00	25.78	0.03560	-31.1	337.9	0.13733
303.00	24.60	0.03610	-32.7	338.2	0.13451
294.50	23.64	0.03663	-34.2	338.9	0.13302
286.00	22.54	0.03716	-35.7	339.6	0.13060
278.00	20.19	0.03761	-37.0	340.4	0.12037
270.00	17.96	0.03802	-38.6	341.0	0.11021
263.00	15.49	0.03834	-40.0	341.4	0.09758
256.00	14.84	0.03866	-41.5	341.9	0.09606
249.00	16.19	0.03901	-43.0	342.4	0.10773
242.00	13.44	0.03932	-44.4	343.1	0.09203
234.50	11.72	0.03961	-46.0	343.8	0.08279
227.00	12.25	0.03992	-47.6	344.5	0.08944
221.00	11.66	0.04017	-49.1	344.8	0.08745
214.00	11.12	0.04045	-50.7	345.5	0.08609
208.00	9.92	0.04067	-52.4	345.8	0.07905
201.50	10.45	0.04094	-53.9	346.6	0.08594
196.00	11.08	0.04118	-55.0	347.5	0.09368
190.00	8.72	0.04139	-56.5	348.3	0.07605
184.00	8.09	0.04160	-57.9	349.1	0.07286
179.00	8.13	0.04177	-59.0	350.1	0.07527
172.50	7.57	0.04200	-60.8	350.8	0.07269
168.00	7.60	0.04215	-61.8	351.9	0.07498
161.00	6.38	0.04237	-63.0	354.2	0.06567
155.00	4.20	0.04249	-64.3	355.9	0.04490
150.00	2.90	0.04257	-65.9	356.5	0.03208
143.00	4.17	0.04273	-67.5	358.4	0.04836
137.00	5.14	0.04290	-69.3	359.7	0.06214
131.00	5.71	0.04310	-71.2	360.9	0.07228
125.00	8.04	0.04340	-73.0	362.7	0.10662
119.00	9.79	0.04378	-74.4	365.1	0.13626
113.50	12.70	0.04426	-75.2	368.7	0.18539
108.00	20.06	0.04504	-72.3	379.4	0.30775
102.50	25.44	0.04609	-69.6	390.2	0.41121
96.00	24.44	0.04736	-70.9	395.0	0.42190
90.20	24.43	0.04856	-71.6	400.8	0.44874
85.50	31.80	0.04990	-69.3	411.5	0.61633
81.00	41.26	0.05166	-67.5	421.6	0.84409
76.50	47.63	0.05381	-65.3	433.2	1.03171
73.40	56.23	0.05565	-63.5	442.2	1.26944
70.50	66.78	0.05777	-62.2	450.0	1.56966
68.60	70.19	0.05929	-61.1	456.1	1.69533
66.70	78.39	0.06103	-60.4	461.2	1.94743
65.00	89.07	0.06284	-59.7	466.1	2.27064
63.50	93.57	0.06457	-59.0	470.7	2.44176
62.20	100.99	0.06622	-58.8	474.0	2.69037
60.80	105.38	0.06811	-58.6	477.6	2.87184
59.30	102.64	0.07014	-58.4	481.5	2.86801
58.20	98.63	0.07159	-58.4	484.1	2.80817
56.80	101.40	0.07354	-58.6	487.0	2.95815
55.40	104.03	0.07559	-58.6	490.5	3.11164
53.70	106.91	0.07822	-58.4	495.3	3.29902
52.80	108.67	0.07967	-58.1	498.2	3.41048
51.50	112.28	0.08188	-57.9	502.3	3.61259

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
50.00	116.42	0.08460	-57.3	508.1	3.85832
48.90	118.09	0.08668	-56.9	512.3	4.00141
47.70	121.03	0.08905	-56.7	516.4	4.20441
46.40	119.64	0.09166	-56.5	521.0	4.27253
45.20	126.75	0.09428	-56.0	525.9	4.64672
44.15	128.96	0.09668	-55.8	530.0	4.84013
43.10	128.60	0.09912	-56.0	533.1	4.94425
42.10	129.33	0.10152	-55.6	537.7	5.09020
41.00	133.50	0.10431	-54.8	543.8	5.39542
40.00	138.12	0.10700	-54.6	548.1	5.72149
39.00	140.45	0.10981	-54.5	552.6	5.96735
38.10	140.09	0.11239	-53.9	557.8	6.09265
37.20	143.36	0.11510	-52.5	565.0	6.38588
36.30	147.57	0.11795	-52.0	570.4	6.73615
35.40	150.15	0.12093	-51.4	575.9	7.02836
34.60	152.22	0.12367	-50.9	581.1	7.28985
33.80	153.29	0.12650	-50.4	586.4	7.51495
32.90	154.20	0.12979	-50.4	590.9	7.76603
32.10	152.81	0.13276	-50.5	594.6	7.88825
31.40	152.30	0.13541	-50.7	597.9	8.03672
30.60	152.25	0.13851	-50.9	601.9	8.24462
29.90	151.73	0.14129	-51.1	605.4	8.40878
29.20	152.81	0.14414	-51.4	608.5	8.67167
28.50	153.76	0.14709	-51.6	612.2	8.93974
27.80	153.24	0.15010	-50.9	618.6	9.13392
27.10	153.24	0.15318	-50.2	625.1	9.36986
26.50	152.21	0.15587	-50.4	628.6	9.51715
25.80	151.21	0.15907	-50.7	632.4	9.71157
25.10	150.23	0.16233	-50.2	639.0	9.91726
24.50	149.24	0.16518	-49.5	645.4	10.09382
23.90	148.64	0.16809	-49.1	651.0	10.30556
23.30	146.65	0.17104	-49.0	656.2	10.42905
22.70	145.60	0.17404	-49.0	661.2	10.62823
22.10	144.65	0.17710	-49.0	666.2	10.84513
21.50	145.52	0.18026	-49.0	671.5	11.21487
20.90	145.97	0.18352	-49.1	676.4	11.57253
20.40	144.94	0.18629	-49.1	681.1	11.77315
19.90	143.84	0.18911	-49.0	686.5	11.97686
19.40	143.67	0.19200	-49.1	691.0	12.27126
18.90	142.14	0.19493	-49.5	695.1	12.46172
18.40	140.61	0.19790	-49.7	699.9	12.66254
17.90	139.08	0.20093	-49.1	707.0	12.87457
17.40	138.49	0.20403	-48.8	713.9	13.18829
17.00	136.58	0.20653	-48.5	719.7	13.31275
16.60	135.31	0.20908	-48.1	725.7	13.50683
16.15	128.91	0.21188	-48.3	730.9	13.22610
15.70	127.83	0.21473	-48.3	736.8	13.49109
15.25	127.83	0.21766	-47.6	745.2	13.88919
14.90	127.75	0.22000	-47.1	751.8	14.20725
14.54	125.74	0.22243	-46.1	760.4	14.32972
14.20	119.79	0.22467	-45.3	768.2	13.97862
13.80	120.58	0.22739	-44.6	777.2	14.47855
13.40	116.18	0.23009	-44.2	784.8	14.36701
13.08	113.83	0.23226	-43.8	791.9	14.41997
12.75	113.33	0.23455	-43.2	799.8	14.72803

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
12.40	112.45	0.23702	-42.6	808.4	15.02653
12.10	112.08	0.23919	-42.1	815.6	15.34844
11.83	110.44	0.24115	-41.9	821.4	15.46964
11.50	108.26	0.24357	-42.4	826.5	15.59932
11.20	106.98	0.24581	-42.4	832.8	15.82658
10.90	105.49	0.24807	-41.9	840.9	16.03570
10.67	103.25	0.24981	-41.4	848.2	16.03433
10.40	101.26	0.25185	-41.1	855.5	16.13329
10.15	98.21	0.25374	-40.8	862.6	16.03275
9.90	96.02	0.25563	-40.6	869.3	16.07164
9.64	93.70	0.25760	-40.2	877.6	16.10583
9.38	89.14	0.25952	-40.0	885.0	15.74600
9.15	87.96	0.26125	-39.9	891.9	15.92893
8.90	85.13	0.26311	-39.6	900.1	15.84862
8.70	83.18	0.26460	-39.2	907.6	15.84245
8.49	81.55	0.26618	-39.6	912.3	15.91675
8.30	82.49	0.26765	-40.2	915.9	16.46776
8.10	81.23	0.26922	-40.6	920.6	16.61667
7.90	78.79	0.27077	-40.8	926.6	16.52575
7.70	78.30	0.27236	-40.8	933.4	16.84883
7.55	77.62	0.27356	-40.6	939.3	17.03533
7.40	77.58	0.27479	-40.5	945.3	17.37074
7.27	77.58	0.27588	-40.2	951.3	17.68135
7.15	76.59	0.27688	-39.9	957.0	17.75017
7.04	76.06	0.27781	-39.7	961.9	17.90158
6.95	75.39	0.27858	-39.6	966.0	17.97433
6.90	74.41	0.27900	-39.6	968.0	17.86914

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1018.60					
1000.00	99.34	0.00145	28.8	302.0	0.16461
992.00	98.70	0.00207	28.0	301.9	0.16486
980.00	98.94	0.00302	27.8	302.7	0.16729
969.00	97.92	0.00389	26.8	302.7	0.16744
959.00	97.48	0.00469	26.0	302.8	0.16843
949.00	88.84	0.00543	25.0	302.7	0.15511
938.00	87.07	0.00623	24.2	302.9	0.15380
927.00	85.28	0.00702	23.3	302.9	0.15244
917.00	87.01	0.00777	22.5	303.1	0.15722
906.00	91.07	0.00864	21.8	303.4	0.16655
896.00	98.82	0.00950	20.5	303.0	0.18275
886.00	97.42	0.01037	19.8	303.3	0.18220
877.00	93.60	0.01112	18.9	303.2	0.17686
866.00	87.19	0.01199	18.0	303.4	0.16682
856.00	76.40	0.01269	17.5	303.9	0.14790
846.00	66.58	0.01331	16.8	304.2	0.13041
835.00	60.96	0.01394	16.7	305.1	0.12098
825.00	56.16	0.01447	16.0	305.5	0.11280
816.00	51.68	0.01492	15.6	306.1	0.10495
804.00	48.79	0.01549	15.1	306.8	0.10055
796.00	45.26	0.01585	14.8	307.4	0.09422
786.00	41.54	0.01626	14.6	308.3	0.08757
777.00	40.83	0.01663	14.5	309.1	0.08707
768.00	40.47	0.01701	14.2	309.8	0.08732
758.00	40.22	0.01742	13.5	310.3	0.08792
749.00	40.35	0.01780	13.3	311.2	0.08927
739.00	39.99	0.01823	12.7	311.7	0.08966
730.00	39.86	0.01861	12.1	312.1	0.09047
720.00	39.60	0.01904	11.1	312.3	0.09113
711.00	38.12	0.01942	10.5	312.7	0.08883
702.00	37.13	0.01980	9.6	312.8	0.08763
692.00	35.74	0.02020	9.0	313.4	0.08558
682.00	34.27	0.02059	8.5	314.2	0.08327
673.50	33.74	0.02093	7.8	314.5	0.08300
664.00	32.91	0.02130	7.5	315.4	0.08213
655.00	33.82	0.02166	7.6	316.8	0.08556
647.00	35.18	0.02200	7.5	317.8	0.09011
638.00	35.08	0.02239	6.4	317.9	0.09110
628.00	35.18	0.02283	5.4	318.2	0.09283
619.00	34.83	0.02323	5.1	319.1	0.09324
610.00	34.81	0.02363	4.7	320.0	0.09457
602.00	35.27	0.02400	3.7	320.0	0.09708
592.00	34.81	0.02446	3.0	320.7	0.09744
584.00	34.25	0.02483	2.4	321.3	0.09719
576.00	32.06	0.02518	1.8	322.0	0.09223
568.00	30.93	0.02552	1.3	322.6	0.09023
559.00	29.61	0.02589	0.3	322.9	0.08778
551.00	27.54	0.02620	-0.2	323.6	0.08282
543.00	29.21	0.02654	-0.9	324.2	0.08913
535.00	29.71	0.02689	-1.8	324.4	0.09203
528.00	29.71	0.02720	-2.2	325.1	0.09325
519.00	29.80	0.02760	-3.1	325.8	0.09513
511.00	29.97	0.02797	-3.8	326.3	0.09717
503.00	28.95	0.02833	-4.7	326.6	0.09538
497.00	27.02	0.02859	-5.9	326.4	0.09007

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
489.50	27.05	0.02891	-6.7	326.8	0.09157
482.00	26.11	0.02923	-7.7	327.0	0.08977
475.00	25.58	0.02953	-8.8	327.0	0.08922
468.00	25.58	0.02983	-9.3	327.7	0.09055
461.00	25.66	0.03013	-10.1	328.2	0.09222
447.00	26.04	0.03076	-10.2	331.0	0.09654
440.00	26.06	0.03109	-11.2	331.2	0.09813
433.00	25.66	0.03141	-12.2	331.4	0.09818
427.00	24.78	0.03169	-13.2	331.5	0.09617
420.00	24.30	0.03200	-14.2	331.8	0.09586
414.00	22.15	0.03226	-15.2	331.9	0.08865
407.50	20.07	0.03251	-15.9	332.4	0.08162
401.00	21.11	0.03277	-16.8	332.8	0.08721
395.00	22.14	0.03304	-17.9	332.8	0.09286
389.00	22.06	0.03330	-18.8	333.2	0.09396
383.00	23.89	0.03360	-19.6	333.5	0.10336
377.00	26.92	0.03393	-20.5	333.9	0.11830
371.00	27.51	0.03428	-21.5	334.1	0.12288
365.00	26.40	0.03462	-22.5	334.3	0.11986
359.00	26.95	0.03497	-23.5	334.6	0.12438
353.00	28.65	0.03536	-24.5	334.9	0.13447
347.50	30.29	0.03573	-25.1	335.5	0.14444
342.00	32.98	0.03615	-25.9	336.0	0.15979
336.00	32.88	0.03661	-26.6	336.7	0.16214
330.00	31.73	0.03706	-27.6	337.0	0.15933
324.50	29.33	0.03745	-28.5	337.4	0.14975
319.00	28.80	0.03784	-29.4	337.8	0.14959
313.00	26.73	0.03824	-30.3	338.4	0.14152
307.00	25.19	0.03862	-31.2	339.0	0.13598
302.00	21.53	0.03890	-32.0	339.5	0.11811
297.00	20.44	0.03917	-32.7	340.2	0.11402
292.00	20.81	0.03945	-33.9	340.1	0.11809
287.00	19.34	0.03971	-35.0	340.3	0.11167
282.00	16.36	0.03994	-36.2	340.2	0.09614
277.00	15.71	0.04016	-37.2	340.5	0.09395
272.00	15.70	0.04039	-38.4	340.5	0.09563
267.00	16.08	0.04062	-39.3	341.0	0.09976
262.30	16.61	0.04086	-40.5	341.1	0.10495
257.50	15.71	0.04108	-41.2	341.8	0.10112
253.00	15.84	0.04131	-42.2	342.0	0.10373
248.00	15.28	0.04155	-43.5	342.1	0.10211
243.50	14.66	0.04176	-44.4	342.5	0.09979
239.00	12.91	0.04195	-45.5	342.7	0.08954
234.50	11.85	0.04213	-46.3	343.3	0.08372
230.00	11.80	0.04231	-47.1	344.0	0.08501
226.00	11.80	0.04247	-48.0	344.4	0.08651
222.00	12.30	0.04264	-49.0	344.6	0.09182
217.50	12.25	0.04284	-50.0	345.0	0.09335
213.00	12.25	0.04304	-50.9	345.7	0.09532
209.00	12.25	0.04323	-52.0	345.9	0.09714
205.00	12.21	0.04341	-52.9	346.4	0.09869
201.00	11.75	0.04360	-53.9	346.8	0.09687
197.00	12.31	0.04379	-54.5	347.9	0.10353
193.00	11.75	0.04398	-55.2	348.7	0.10089
189.00	11.80	0.04418	-56.2	349.1	0.10345

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
185.50	11.90	0.04435	-57.1	349.7	0.10626
181.50	11.95	0.04456	-57.9	350.5	0.10911
177.50	11.48	0.04476	-58.8	351.3	0.10721
173.00	11.49	0.04499	-59.7	352.4	0.11006
169.00	11.44	0.04520	-60.6	353.3	0.11220
165.00	10.93	0.04541	-61.8	353.7	0.10981
161.50	9.95	0.04558	-63.0	353.8	0.10205
158.00	8.40	0.04573	-64.0	354.3	0.08810
154.70	6.88	0.04584	-65.6	353.8	0.07372
151.50	7.92	0.04597	-66.7	354.0	0.08663
147.50	8.95	0.04616	-68.1	354.2	0.10058
144.00	10.98	0.04637	-69.0	355.1	0.12635
140.80	12.58	0.04659	-69.6	356.3	0.14807
138.00	14.91	0.04683	-70.9	356.1	0.17904
135.00	13.49	0.04706	-70.9	358.4	0.16553
132.00	12.42	0.04728	-71.2	360.1	0.15591
129.00	13.19	0.04752	-71.9	361.3	0.16945
126.00	16.06	0.04782	-72.6	362.5	0.21120
123.50	17.25	0.04809	-74.0	361.9	0.23150
121.00	17.68	0.04838	-74.8	362.7	0.24214
118.00	19.11	0.04876	-75.2	364.6	0.26837
115.00	22.32	0.04921	-75.6	366.6	0.32162
112.50	28.21	0.04970	-74.4	371.0	0.41546
110.00	34.93	0.05032	-72.6	376.8	0.52610
107.60	40.39	0.05102	-71.9	380.5	0.62196
105.00	35.72	0.05171	-71.9	383.2	0.56370
102.50	32.35	0.05233	-71.9	385.8	0.52294
100.00	34.77	0.05301	-71.9	388.5	0.57606
97.50	35.36	0.05371	-72.3	390.7	0.60089
95.00	35.01	0.05443	-73.0	392.2	0.61058
92.60	37.87	0.05520	-73.0	395.1	0.67763
90.00	43.68	0.05618	-70.9	402.4	0.80425
87.90	50.36	0.05712	-69.3	408.3	0.94931
85.50	59.37	0.05842	-67.5	415.2	1.15064
83.40	66.39	0.05972	-66.1	421.0	1.31901
81.20	68.82	0.06117	-65.6	425.3	1.40436
79.10	72.04	0.06266	-65.0	429.6	1.50913
77.00	77.05	0.06430	-64.3	434.6	1.65805
75.00	85.21	0.06607	-63.5	439.5	1.88256
72.90	88.33	0.06805	-63.0	444.1	2.00783
71.00	92.81	0.06999	-62.0	449.6	2.16601
68.90	95.88	0.07226	-61.3	455.0	2.30595
67.00	103.83	0.07455	-61.1	459.1	2.56792
65.20	110.75	0.07693	-60.6	463.7	2.81460
63.30	114.85	0.07961	-60.1	468.7	3.00639
61.50	116.33	0.08226	-59.9	473.1	3.13427
59.60	122.30	0.08529	-60.1	476.8	3.40025
58.00	124.51	0.08797	-59.7	481.6	3.55711
56.40	129.68	0.09083	-59.0	487.0	3.80998
54.80	132.38	0.09384	-58.4	492.5	4.00295
53.20	138.55	0.09708	-57.9	497.7	4.31524
51.30	143.91	0.10121	-57.1	504.8	4.64831
49.80	147.81	0.10468	-56.7	510.1	4.91812
48.10	150.82	0.10881	-56.2	516.2	5.19571
46.60	153.75	0.11266	-55.8	521.9	5.46705

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
45.00	156.68	0.11698	-55.0	529.0	5.76923
43.60	159.61	0.12096	-54.6	534.8	6.06573
42.20	162.04	0.12514	-54.5	540.3	6.36275
40.80	164.58	0.12952	-54.3	546.0	6.68400
39.50	166.53	0.13378	-54.1	551.6	6.98590
38.20	169.48	0.13826	-52.7	560.3	7.35148
36.80	172.94	0.14336	-51.8	568.6	7.78681
35.50	179.21	0.14845	-51.6	575.0	8.36503
34.30	178.93	0.15331	-51.4	581.1	8.64374
33.20	178.82	0.15791	-51.4	586.6	8.92471
32.10	177.43	0.16263	-51.3	592.7	9.15885
30.80	175.44	0.16835	-51.1	600.3	9.43844
29.50	173.35	0.17426	-50.9	608.2	9.73709
28.50	169.78	0.17888	-50.5	615.2	9.87088
27.30	168.77	0.18461	-50.0	624.3	10.24344
26.30	167.78	0.18955	-49.8	631.5	10.57055
25.20	164.80	0.19511	-50.0	638.7	10.83636
24.20	162.33	0.20030	-49.8	646.7	11.11521
23.20	160.86	0.20566	-49.8	654.5	11.48913
22.20	159.39	0.21121	-50.0	662.3	11.89651
21.30	157.42	0.21635	-50.2	669.6	12.24611
20.20	154.35	0.22281	-50.0	680.4	12.66136
19.30	152.87	0.22831	-48.8	693.1	13.12476
18.40	149.91	0.23397	-48.0	705.2	13.50026
17.60	144.49	0.23904	-47.3	716.4	13.60316
16.80	142.58	0.24428	-46.6	728.1	14.06274
16.10	138.23	0.24892	-46.0	739.1	14.22682
15.45	133.58	0.25327	-45.3	749.9	14.32601
14.80	130.30	0.25769	-44.9	760.8	14.58837
14.20	126.47	0.26182	-44.6	770.9	14.75775
13.60	121.91	0.26598	-43.9	782.6	14.85339
13.10	120.50	0.26954	-43.6	792.1	15.24163
12.60	117.67	0.27316	-43.3	802.0	15.47489
12.20	119.57	0.27620	-43.2	810.0	16.23995
11.80	114.33	0.27921	-43.0	818.3	16.05453
11.30	110.95	0.28300	-42.9	829.0	16.26911
10.90	107.77	0.28607	-42.7	838.1	16.38294
10.55	105.22	0.28878	-42.6	846.5	16.52590
10.20	102.85	0.29152	-42.2	855.9	16.70787
9.80	100.70	0.29470	-42.2	865.7	17.02695
9.50	95.81	0.29705	-42.2	873.4	16.71078
9.20	93.33	0.29942	-41.9	882.6	16.80995
8.87	92.69	0.30209	-41.6	893.0	17.31526
8.60	89.43	0.30427	-41.2	902.7	17.23014
8.37	87.38	0.30614	-41.1	910.3	17.29917
8.13	84.57	0.30809	-41.2	917.3	17.23575
7.90	81.55	0.30993	-41.4	924.3	17.10547
7.73	82.66	0.31135	-41.2	930.6	17.71953
7.55	81.88	0.31288	-40.9	938.1	17.97061
7.40	81.26	0.31417	-40.9	943.5	18.19561
7.25	80.90	0.31547	-40.9	949.0	18.49048
7.15	77.80	0.31633	-40.3	955.2	18.02932
7.03	76.51	0.31735	-39.6	962.8	18.03265
6.95	74.54	0.31802	-39.4	966.6	17.77177
6.91	74.80	0.31836	-39.3	968.8	17.93681

Table 35 (continued)

WASHINGTON,D.C. 9/16/70 1515Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
6.90	74.31	0.31845	-39.4	968.6	17.84440

Table 36

WASHINGTON,D.C. 10/2/70 1516Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1010.80	25.0	8.4	6.76961	297.2		
980.00	23.6	8.4	6.98476	298.5	0.21614003	0.21614003
965.00	23.2	7.4	6.63451	299.4	0.10422912	0.32036915
949.00	22.2	7.4	6.74758	299.8	0.10924163	0.42961078
935.00	21.4	5.6	6.02893	300.2	0.09126083	0.52087161
920.00	20.9	5.6	6.12820	301.1	0.09303924	0.61391085
906.00	20.2	3.9	5.52032	301.8	0.08320373	0.69711458
892.00	19.9	3.9	5.60775	302.8	0.07948624	0.77660081
878.00	19.5	3.9	5.69798	303.8	0.08075523	0.85735605
869.00	19.7	3.9	5.75754	304.9	0.05260191	0.90995796
864.50	18.6	4.7	6.14015	304.1	0.02731613	0.93727409
860.00	19.2	3.9	5.81836	305.3	0.02745576	0.96472985
852.50	18.6	3.9	5.87003	305.3	0.04472599	1.00945584
845.00	18.1	3.9	5.92263	305.6	0.04512497	1.05458081
837.50	17.6	3.9	5.97618	305.9	0.04553114	1.10011195
830.00	17.0	4.7	6.39800	306.0	0.04735015	1.14746211
822.00	16.5	3.9	6.08997	306.3	0.05097129	1.19843340
815.00	15.9	3.9	6.14279	306.4	0.04368843	1.24212183
807.50	14.9	3.9	6.20041	306.2	0.04723166	1.28935349
800.00	14.6	3.1	5.90972	306.7	0.04633979	1.33569328
793.00	14.3	2.3	5.63852	307.2	0.04124368	1.37693696
786.00	13.7	2.3	5.68919	307.3	0.04045609	1.41739306
779.00	13.3	1.5	5.43709	307.6	0.03973670	1.45712976
771.00	12.6	1.5	5.49400	307.9	0.04461668	1.50174644
764.50	12.0	0.8	5.25541	308.0	0.03564856	1.53739500
758.00	11.7	-0.6	4.81558	308.4	0.03339870	1.57079370
751.00	11.5	-1.2	4.59779	308.9	0.03361917	1.60441287
744.00	10.9	-1.9	4.39603	309.1	0.03212078	1.63653365
737.00	10.4	-2.5	4.20880	309.4	0.03073154	1.66726519
730.00	10.3	-3.1	4.03472	310.1	0.02944113	1.69670631
724.00	10.1	-6.0	3.19041	310.7	0.02211773	1.71882404
718.00	10.0	-9.4	2.37664	311.2	0.01704198	1.73586603
711.00	10.0	-11.6	1.97498	312.1	0.01554150	1.75140753
704.00	9.8	-13.6	1.66527	312.8	0.01300090	1.76440843
697.00	9.8	-14.3	1.57044	313.7	0.01155612	1.77596455
690.00	9.7	-15.4	1.43608	314.5	0.01073758	1.78670213
684.00	9.4	-15.8	1.40263	314.9	0.00868993	1.79539206
679.00	9.2	-16.1	1.36859	315.4	0.00706944	1.80246149
672.50	9.1	-17.1	1.25862	316.1	0.00871269	1.81117418
666.00	9.0	-20.7	0.90187	316.9	0.00716488	1.81833906
660.00	8.8	-20.7	0.91008	317.5	0.00554677	1.82388584
654.00	8.8	-20.4	0.94351	318.3	0.00567424	1.82956008
649.00	8.8	-21.5	0.85507	319.0	0.00458820	1.83414828
643.00	8.7	-21.8	0.84101	319.7	0.00519206	1.83934034
637.00	8.2	-22.3	0.80671	320.1	0.00504402	1.84438437
631.00	7.7	-24.0	0.68611	320.3	0.00456986	1.84895423
626.00	7.2	-25.0	0.62996	320.5	0.00335733	1.85231156
620.00	6.5	-25.2	0.62169	320.6	0.00383159	1.85614315
614.50	5.8	-26.3	0.56103	320.6	0.00331887	1.85946201
609.00	5.1	-27.0	0.53053	320.6	0.00306305	1.86252507
603.50	4.5	-27.8	0.49207	320.8	0.00286954	1.86539461
598.00	4.1	-28.4	0.46690	321.2	0.00269098	1.86808559
592.50	3.6	-28.4	0.47123	321.4	0.00263251	1.87071809
587.00	2.9	-28.2	0.48546	321.4	0.00268461	1.87340270
581.00	2.2	-27.0	0.55612	321.5	0.00318851	1.87659121

Table 36 (continued)

WASHINGTON,D.C. 10/2/70 1516Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
574.00	1.5	-27.0	0.56291	321.9	0.00399651	1.88058773
568.50	1.1	-25.7	0.64813	322.3	0.00339830	1.88398603
563.00	0.4	-25.7	0.65446	322.4	0.00365522	1.88764125
557.00	-0.6	-25.9	0.64692	322.2	0.00398383	1.89162509
550.00	-1.2	-26.1	0.64082	322.6	0.00459907	1.89622416
545.00	-2.0	-26.3	0.63265	322.5	0.00324864	1.89947280
540.00	-3.0	-27.0	0.59838	322.2	0.00314039	1.90261319
534.00	-4.0	-27.2	0.59235	321.9	0.00364510	1.90625829
529.00	-4.8	-27.4	0.58543	321.8	0.00300455	1.90926285
523.00	-5.8	-27.4	0.59216	321.8	0.00360488	1.91286772
517.00	-6.4	-27.2	0.61185	322.0	0.00368573	1.91655345
511.50	-7.1	-28.0	0.56876	322.2	0.00331293	1.91986638
505.00	-7.6	-27.0	0.63990	322.8	0.00400830	1.92387468
500.00	-8.3	-26.5	0.67478	322.9	0.00335376	1.92722844
494.00	-8.9	-27.0	0.65416	323.2	0.00406818	1.93129662
489.00	-9.7	-27.0	0.66086	323.2	0.00335464	1.93465126
484.00	-10.5	-27.0	0.66769	323.2	0.00338915	1.93804041
478.00	-11.3	-27.0	0.67608	323.3	0.00411359	1.94215400
473.00	-12.1	-26.7	0.69807	323.3	0.00350549	1.94565948
467.50	-12.9	-26.5	0.72174	323.4	0.00398416	1.94964365
462.00	-13.7	-25.7	0.79772	323.5	0.00426380	1.95390745
457.00	-14.5	-25.0	0.86325	323.6	0.00423716	1.95814461
452.00	-15.2	-24.8	0.89316	323.6	0.00448064	1.96262525
447.00	-16.0	-24.3	0.94634	323.6	0.00469261	1.96731786
442.00	-16.8	-24.5	0.93488	323.7	0.00479904	1.97211690
437.00	-17.4	-24.5	0.94560	324.1	0.00479715	1.97691405
432.00	-18.3	-24.5	0.95656	323.9	0.00485244	1.98176648
427.00	-19.0	-25.4	0.88284	324.2	0.00469235	1.98645883
422.00	-19.2	-25.7	0.87344	324.9	0.00448032	1.99093915
417.00	-19.6	-25.2	0.92479	325.5	0.00458732	1.99552647
412.00	-20.3	-25.4	0.91503	325.8	0.00469341	2.00021988
407.50	-20.8	-25.9	0.88460	326.1	0.00413180	2.00435168
402.50	-21.4	-26.1	0.87598	326.6	0.00449127	2.00884296
397.00	-21.6	-26.5	0.85009	327.5	0.00484356	2.01368652
392.00	-21.9	-26.5	0.86094	328.3	0.00436487	2.01805138
383.00	-22.9	-27.2	0.82620	329.3	0.00774708	2.02579846
378.00	-23.5	-27.8	0.78599	329.6	0.00411273	2.02991120
373.00	-24.4	-28.4	0.74887	329.8	0.00391548	2.03382668
368.50	-24.9	-28.8	0.72799	330.2	0.00339077	2.03721745
364.00	-25.7	-29.9	0.65491	330.2	0.00317503	2.04039248
359.00	-26.4	-30.7	0.61530	330.6	0.00324033	2.04363281
354.00	-27.6	-32.2	0.52912	330.4	0.00291945	2.04655225
350.00	-28.4	-32.7	0.50750	330.3	0.00211556	2.04866781
345.00	-29.3	-33.5	0.47216	330.5	0.00249913	2.05116694
340.50	-30.3	-34.2	0.44711	330.4	0.00211057	2.05327751
336.00	-30.9	-34.9	0.41717	330.9	0.00198432	2.05526182
332.00	-31.8	-35.5	0.39576	330.8	0.00165902	2.05692084
327.00	-32.5	-36.0	0.38309	331.2	0.00198685	2.05890770
323.00	-33.6	-36.7	0.35871	330.9	0.00151388	2.06042158
318.00	-34.5	-37.1	0.34797	331.1	0.00180275	2.06222432
314.00	-35.1	-38.2	0.31259	331.4	0.00134807	2.06357240
310.00	-35.7	-39.1	0.28599	331.8	0.00122160	2.06479399
306.00	-36.5	-40.0	0.26241	331.9	0.00111919	2.06591318
302.00	-37.2	-40.8	0.24141	332.3	0.00102820	2.06694138
297.50	-38.1	-42.5	0.20076	332.3	0.00101519	2.06795657

Table 36 (continued)

WASHINGTON,D.C. 10/2/70 1516Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
293.00	-39.3	-44.0	0.17276	332.2	0.00085757	2.06881415
289.00	-39.9	-44.7	0.16062	332.5	0.00068037	2.06949452
285.00	-40.6	-44.9	0.15894	332.9	0.00065218	2.07014669
281.00	-41.6	-46.1	0.13958	332.7	0.00060923	2.07075592
277.00	-42.2	-46.3	0.13829	333.3	0.00056708	2.07132301
273.00	-43.0	-48.6	0.10657	333.5	0.00049973	2.07182274
269.00	-43.2	-52.5	0.06670	334.6	0.00035363	2.07217636
264.80	-43.4	-55.0	0.04895	335.8	0.00024783	2.07242420
260.00	-43.4	-55.6	0.04650	337.6	0.00023377	2.07265796
256.50	-43.4	-57.2	0.03798	338.9	0.00015087	2.07280883
252.50	-43.4	-57.7	0.03605	340.4	0.00015109	2.07295992
248.50	-43.4	-56.3	0.04408	342.0	0.00016354	2.07312346
244.00	-43.4	-58.4	0.03420	343.8	0.00017974	2.07330320
240.00	-43.6	-59.7	0.02898	345.1	0.00012894	2.07343214
236.00	-43.4	-60.1	0.02810	347.1	0.00011650	2.07354864
232.30	-43.4	-60.9	0.02571	348.6	0.00010159	2.07365022
229.00	-43.4	-62.5	0.02076	350.1	0.00007825	2.07372847
225.00	-43.4	-64.8	0.01528	351.8	0.00007355	2.07380202
221.00	-43.6	-65.7	0.01373	353.4	0.00005920	2.07386122
217.00	-43.9	-66.9	0.01187	354.7	0.00005226	2.07391348
213.00	-44.1	-67.6	0.01087	356.3	0.00004642	2.07395990
209.50	-44.7	-68.1	0.01032	357.1	0.00003785	2.07399775
206.00	-45.2	-69.2	0.00888	358.0	0.00003430	2.07403204
202.40	-45.4	-70.3	0.00771	359.5	0.00003047	2.07406251
198.80	-45.2	-70.9	0.00716	361.6	0.00002731	2.07408982
195.50	-45.2	-71.4	0.00678	363.3	0.00002348	2.07411331
192.00	-45.2	-72.0	0.00630	365.2	0.00002336	2.07413666
188.50	-45.6	-72.9	0.00554	366.5	0.00002114	2.07415780
185.00	-46.6	-73.5	0.00519	367.0	0.00001916	2.07417696
181.50	-47.1	-73.7	0.00512	368.0	0.00001840	2.07419536
178.00	-47.9	-73.8	0.00511	368.8	0.00001827	2.07421363
174.70	-48.9	-74.0	0.00510	369.1	0.00001718	2.07423081
171.50	-49.7	-74.3	0.00497	369.7	0.00001643	2.07424724
168.20	-50.6	-74.5	0.00485	370.4	0.00001654	2.07426378
165.00	-51.0	-75.0	0.00463	371.7	0.00001548	2.07427926
162.00	-51.4	-75.2	0.00456	373.0	0.00001407	2.07429333
159.00	-51.9	-75.6	0.00435	374.2	0.00001364	2.07430697
155.80	-52.8	-75.7	0.00434	374.9	0.00001418	2.07432115
152.50	-53.2	-75.8	0.00438	376.4	0.00001468	2.07433583
150.00	-53.9	-76.0	0.00435	377.0	0.00001114	2.07434697
147.00	-54.6	-76.2	0.00425	378.0	0.00001316	2.07436013
144.00	-55.1	-76.4	0.00424	379.4	0.00001298	2.07437312
141.00	-55.3	-76.6	0.00418	381.3	0.00001288	2.07438600
138.20	-55.3	-77.0	0.00398	383.5	0.00001165	2.07439765
135.00	-55.1	-77.4	0.00384	386.5	0.00001276	2.07441041
132.50	-55.3	-77.9	0.00364	388.1	0.00000954	2.07441995
130.00	-55.5	-78.2	0.00354	389.8	0.00000916	2.07442911
127.00	-56.0	-78.2	0.00358	391.5	0.00001089	2.07444000
124.00	-56.0	-78.5	0.00353	394.2	0.00001088	2.07445088
121.60	-56.0	-78.6	0.00351	396.4	0.00000863	2.07445950
119.00	-56.3	-78.8	0.00346	398.4	0.00000925	2.07446876
116.50	-56.3	-79.1	0.00341	400.9	0.00000876	2.07447751
114.00	-56.3	-79.4	0.00327	403.4	0.00000851	2.07448602
111.50	-56.3	-79.7	0.00322	405.9	0.00000827	2.07449430
109.00	-56.3	-80.0	0.00313	408.6	0.00000809	2.07450238

Table 36 (continued)

WASHINGTON,D.C. 10/2/70 1516Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
106.60	-56.5	-80.2	0.00307	410.7	0.00000759	2.07450998
104.00	-56.3	-80.5	0.00303	414.1	0.00000810	2.07451807
102.00	-56.0	-80.7	0.00297	416.9	0.00000612	2.07452419
100.00	-55.8	-81.1	0.00283	419.7	0.00000592	2.07453011
97.50	-55.5	-81.4	0.00279	423.2	0.00000717	2.07453729
95.00	-55.5	-81.7	0.00271	426.4	0.00000702	2.07454430
92.90	-55.3	-81.9	0.00266	429.6	0.00000575	2.07455006
90.80	-55.3	-82.2	0.00261	432.4	0.00000565	2.07455570
88.60	-55.3	-82.5	0.00253	435.4	0.00000577	2.07456147
86.50	-55.3	-82.5	0.00259	438.4	0.00000548	2.07456695
84.30	-55.1	-82.6	0.00262	442.1	0.00000584	2.07457280
82.20	-54.8	-82.7	0.00265	445.8	0.00000564	2.07457844
80.40	-54.6	-82.8	0.00267	449.1	0.00000488	2.07458332
78.10	-54.4	-82.9	0.00267	453.4	0.00000626	2.07458958
76.20	-54.1	-83.0	0.00270	457.0	0.00000520	2.07459478
74.10	-53.9	-83.1	0.00273	461.2	0.00000581	2.07460060
72.10	-53.9	-83.1	0.00281	464.8	0.00000565	2.07460625
70.10	-53.4	-83.4	0.00276	469.5	0.00000568	2.07461193
68.10	-52.8	-83.5	0.00276	474.9	0.00000564	2.07461757
66.20	-51.9	-83.6	0.00280	480.7	0.00000539	2.07462296
64.40	-51.7	-83.8	0.00279	485.0	0.00000513	2.07462809
62.50	-51.4	-83.9	0.00283	489.6	0.00000545	2.07463355
60.70	-52.1	-84.2	0.00274	492.3	0.00000512	2.07463867
58.90	-52.8	-84.4	0.00274	495.0	0.00000504	2.07464371
57.10	-52.1	-84.5	0.00279	500.9	0.00000508	2.07464879
55.30	-51.4	-84.5	0.00288	507.0	0.00000520	2.07465399
53.70	-51.0	-84.6	0.00292	512.3	0.00000473	2.07465872
52.00	-50.6	-84.7	0.00296	518.0	0.00000510	2.07466382
50.40	-49.7	-85.1	0.00287	524.6	0.00000476	2.07466858
48.80	-49.3	-85.2	0.00292	530.4	0.00000473	2.07467331
47.20	-49.1	-85.3	0.00292	536.0	0.00000477	2.07467808
45.60	-49.3	-85.5	0.00293	540.8	0.00000478	2.07468285
44.10	-49.3	-85.8	0.00288	546.0	0.00000445	2.07468730
42.60	-49.3	-86.1	0.00284	551.4	0.00000438	2.07469167
41.00	-49.1	-86.3	0.00285	558.0	0.00000464	2.07469632
39.60	-48.5	-86.5	0.00285	565.1	0.00000407	2.07470039
38.25	-47.9	-86.7	0.00285	572.3	0.00000393	2.07470432
36.80	-47.7	-86.8	0.00292	579.1	0.00000427	2.07470859
35.40	-47.5	-87.2	0.00283	586.1	0.00000410	2.07471269
34.00	-47.3	-87.5	0.00279	593.4	0.00000401	2.07471670
32.60	-47.1	-87.8	0.00275	601.1	0.00000396	2.07472066
31.40	-47.1	-88.0	0.00276	607.6	0.00000337	2.07472404
30.00	-47.1	-88.3	0.00273	615.5	0.00000392	2.07472795
28.80	-47.3	-88.4	0.00279	622.2	0.00000338	2.07473133
27.60	-47.5	-88.6	0.00280	629.3	0.00000342	2.07473476
26.30	-47.9	-88.9	0.00278	636.9	0.00000370	2.07473845
25.30	-47.3	-89.2	0.00277	645.7	0.00000283	2.07474129
24.10	-47.1	-89.4	0.00280	655.3	0.00000341	2.07474470
23.15	-46.9	-89.4	0.00291	663.4	0.00000277	2.07474747
22.10	-46.8	-89.5	0.00299	672.8	0.00000316	2.07475063
21.20	-46.6	-89.7	0.00300	681.5	0.00000275	2.07475338
20.40	-45.6	-90.2	0.00287	691.9	0.00000239	2.07475577
19.50	-45.4	-90.4	0.00288	701.4	0.00000264	2.07475841
18.75	-46.4	-90.5	0.00293	706.4	0.00000222	2.07476063
18.10	-46.8	-90.8	0.00285	712.3	0.00000191	2.07476255

Table 36 (continued)

WASHINGTON,D.C. 10/2/70 1516Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
17.40	-46.4	-91.3	0.00271	721.6	0.00000198	2.07476453
16.83	-45.4	-91.6	0.00268	731.6	0.00000157	2.07476610
16.30	-45.0	-91.7	0.00270	739.5	0.00000146	2.07476755
15.75	-44.5	-91.8	0.00274	748.6	0.00000153	2.07476908
15.20	-43.0	-91.9	0.00277	761.0	0.00000154	2.07477063
14.70	-41.5	-91.9	0.00286	773.6	0.00000144	2.07477206
14.30	-41.0	-92.1	0.00288	781.5	0.00000117	2.07477323
13.85	-40.8	-92.1	0.00297	789.2	0.00000134	2.07477458
13.40	-40.3	-92.2	0.00300	798.5	0.00000137	2.07477595
13.00	-39.8	-92.3	0.00302	807.1	0.00000123	2.07477717
12.60	-39.4	-92.3	0.00311	815.5	0.00000125	2.07477843
12.30	-39.3	-92.4	0.00312	821.8	0.00000095	2.07477938
12.00	-39.3	-92.4	0.00319	827.6	0.00000097	2.07478035
11.64	-39.1	-92.6	0.00321	835.4	0.00000118	2.07478152
11.30	-38.9	-92.7	0.00323	843.1	0.00000112	2.07478264
11.00	-39.3	-93.0	0.00316	848.4	0.00000098	2.07478362
10.70	-39.3	-93.1	0.00317	855.1	0.00000097	2.07478459
10.47	-39.4	-93.2	0.00316	859.9	0.00000074	2.07478533
10.20	-38.9	-93.5	0.00309	868.1	0.00000086	2.07478619
10.00	-38.8	-93.8	0.00299	873.7	0.00000062	2.07478681
9.78	-39.1	-94.0	0.00290	878.0	0.00000066	2.07478747
9.64	-39.4	-94.2	0.00287	880.4	0.00000041	2.07478789
9.50	-39.3	-93.2	0.00348	884.7	0.00000045	2.07478834

Table 37

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1010.80					
949.00	51.22	0.00255	22.2	299.8	0.08943
935.00	53.08	0.00317	21.4	300.2	0.09406
920.00	54.68	0.00387	20.9	301.1	0.09848
906.00	56.20	0.00455	20.2	301.8	0.10279
892.00	55.46	0.00523	19.9	302.8	0.10302
878.00	53.34	0.00590	19.5	303.8	0.10066
864.50	53.34	0.00655	18.6	304.1	0.10224
850.00	54.14	0.00728	17.8	304.8	0.10554
836.00	55.88	0.00801	16.8	305.2	0.11076
820.00	56.66	0.00887	16.0	306.1	0.11450
808.00	52.43	0.00948	15.2	306.5	0.10753
792.00	51.19	0.01029	14.8	307.8	0.10710
780.00	48.68	0.01088	14.0	308.3	0.10342
768.00	48.18	0.01147	12.9	308.5	0.10395
754.00	46.82	0.01215	11.9	309.0	0.10288
740.00	44.48	0.01281	10.9	309.5	0.09959
727.50	40.97	0.01336	9.8	309.9	0.09331
714.00	36.79	0.01390	9.0	310.6	0.08539
702.00	33.69	0.01435	8.4	311.5	0.07952
689.00	29.21	0.01478	8.4	313.2	0.07025
676.00	25.75	0.01517	8.8	315.3	0.06312
663.00	24.14	0.01554	8.8	317.1	0.06032
652.00	22.58	0.01584	7.9	317.6	0.05739
640.00	21.99	0.01616	7.1	318.4	0.05694
629.00	21.41	0.01646	6.5	319.3	0.05639
618.00	20.82	0.01675	6.0	320.3	0.05582
605.00	20.23	0.01709	5.0	321.1	0.05542
595.00	21.41	0.01737	4.1	321.6	0.05962
572.00	22.58	0.01807	1.9	322.7	0.06541
561.00	20.74	0.01839	0.9	323.3	0.06125
550.00	17.98	0.01867	-0.2	323.8	0.05416
540.00	17.20	0.01892	-1.3	324.1	0.05277
530.00	17.83	0.01918	-2.9	324.1	0.05573
520.00	18.76	0.01946	-4.4	324.0	0.05979
509.00	13.97	0.01970	-5.9	324.2	0.04547
500.00	17.74	0.01995	-7.4	324.0	0.05881
488.00	17.28	0.02028	-8.9	324.4	0.05866
478.00	16.09	0.02054	-10.3	324.5	0.05577
468.00	15.45	0.02080	-12.2	324.2	0.05472
458.00	14.82	0.02105	-14.1	323.8	0.05362
448.00	14.18	0.02130	-15.7	323.9	0.05244
438.00	13.61	0.02154	-17.2	324.1	0.05150
428.00	12.77	0.02178	-18.6	324.4	0.04946
419.50	12.71	0.02198	-20.1	324.3	0.05022
410.00	11.55	0.02219	-21.5	324.7	0.04666
400.00	11.60	0.02241	-22.4	325.7	0.04806
392.00	11.60	0.02260	-23.3	326.6	0.04904
383.00	12.19	0.02282	-24.1	327.6	0.05273
374.00	12.18	0.02305	-25.1	328.6	0.05397
365.50	12.70	0.02328	-26.6	328.7	0.05757
357.00	11.58	0.02350	-28.2	328.8	0.05375
349.00	12.10	0.02371	-29.4	329.2	0.05745
341.00	12.09	0.02393	-30.9	329.4	0.05876
333.00	11.56	0.02415	-32.2	329.9	0.05751
325.00	11.55	0.02437	-33.7	330.1	0.05889

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
317.50	12.71	0.02461	-35.1	330.4	0.06633
310.00	12.70	0.02485	-36.3	330.9	0.06789
303.00	12.96	0.02508	-37.8	331.1	0.07088
295.00	11.65	0.02533	-39.1	331.8	0.06543
287.00	9.89	0.02554	-40.4	332.5	0.05709
280.00	9.30	0.02572	-41.7	332.9	0.05505
272.50	8.75	0.02591	-43.1	333.5	0.05322
266.00	8.16	0.02607	-44.7	333.5	0.05083
259.00	8.74	0.02625	-46.2	333.8	0.05589
252.50	15.58	0.02656	-46.6	335.7	0.10222
246.00	26.90	0.02712	-46.4	338.5	0.18117
240.00	35.21	0.02780	-46.2	341.2	0.24313
233.00	45.09	0.02886	-46.0	344.4	0.32063
227.00	41.46	0.02971	-46.0	346.9	0.30261
221.50	38.08	0.03045	-46.0	349.4	0.28485
216.00	36.49	0.03117	-45.8	352.2	0.27992
210.50	28.39	0.03175	-45.7	355.1	0.22349
205.00	23.92	0.03225	-45.3	358.4	0.19335
200.50	18.80	0.03258	-44.7	361.5	0.15540
196.00	17.15	0.03289	-44.4	364.4	0.14495
191.50	15.22	0.03317	-45.5	365.1	0.13172
187.00	15.21	0.03345	-46.4	366.1	0.13481
182.40	13.92	0.03373	-47.7	366.5	0.12650
178.00	14.49	0.03400	-48.9	367.2	0.13490
173.50	13.84	0.03428	-49.9	368.2	0.13223
169.00	13.77	0.03457	-50.3	370.3	0.13497
164.50	14.32	0.03488	-51.2	371.8	0.14425
160.00	14.24	0.03519	-51.8	373.7	0.14748
156.00	16.75	0.03552	-52.2	375.7	0.17794
152.00	19.45	0.03592	-53.3	376.6	0.21204
148.00	21.18	0.03637	-54.0	378.3	0.23708
144.00	19.93	0.03680	-54.7	380.1	0.22928
140.40	19.34	0.03718	-55.1	382.0	0.22822
137.00	18.18	0.03754	-55.6	383.9	0.21994
133.00	17.09	0.03794	-55.8	386.7	0.21292
129.00	17.08	0.03835	-56.1	389.7	0.21939
126.30	16.46	0.03862	-56.3	391.6	0.21592
123.00	17.08	0.03898	-56.6	394.2	0.23009
120.30	19.16	0.03932	-56.8	396.2	0.26387
117.50	22.59	0.03974	-57.1	398.4	0.31855
114.70	27.79	0.04026	-57.3	400.7	0.40140
109.60	33.75	0.04148	-58.1	404.6	0.51018
107.00	38.72	0.04221	-58.1	407.4	0.59954
104.60	44.35	0.04300	-57.3	411.4	0.70260
102.00	46.57	0.04393	-56.8	415.3	0.75652
100.00	51.85	0.04474	-56.6	418.2	0.85913
97.80	61.50	0.04582	-56.3	421.3	1.04194
95.50	65.47	0.04705	-56.1	424.7	1.13592
93.40	65.72	0.04820	-55.8	427.8	1.16586
91.40	61.74	0.04926	-55.8	430.5	1.11935
89.50	58.94	0.05024	-55.8	433.1	1.09124
87.60	69.86	0.05142	-55.6	436.2	1.32146
85.60	80.19	0.05288	-54.9	440.5	1.55221
83.60	92.01	0.05460	-54.2	444.9	1.82369
81.80	99.91	0.05632	-54.9	446.3	2.02379

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
80.00	103.34	0.05813	-55.4	448.2	2.14051
78.00	104.00	0.06021	-55.1	451.9	2.20933
76.50	105.04	0.06182	-54.7	455.4	2.27513
74.80	111.05	0.06379	-54.4	458.8	2.45992
73.00	118.71	0.06608	-54.4	462.0	2.69464
71.20	120.88	0.06846	-54.2	465.8	2.81313
69.60	120.60	0.07062	-54.2	468.8	2.87109
68.00	119.75	0.07282	-54.0	472.4	2.91804
66.60	116.29	0.07473	-53.8	475.7	2.89322
65.00	120.05	0.07704	-53.5	479.5	3.06024
63.70	119.76	0.07895	-53.3	482.8	3.11539
62.20	116.96	0.08115	-53.1	486.6	3.11574
60.80	115.35	0.08322	-52.9	490.3	3.14361
59.60	116.16	0.08505	-52.7	493.5	3.22935
58.40	119.76	0.08697	-52.4	496.9	3.39799
57.20	121.37	0.08896	-52.2	500.4	3.51592
56.00	128.49	0.09111	-52.0	503.9	3.80186
54.90	137.74	0.09327	-52.0	506.8	4.15736
53.70	136.63	0.09565	-52.0	510.0	4.21600
52.60	137.07	0.09789	-51.4	514.5	4.31800
51.50	137.59	0.10019	-50.5	519.5	4.42683
50.40	133.97	0.10247	-50.3	523.2	4.40467
49.40	127.79	0.10450	-50.3	526.2	4.28629
48.30	128.24	0.10678	-50.1	530.1	4.39950
47.30	127.05	0.10887	-50.1	533.3	4.45071
46.30	127.33	0.11102	-50.3	536.1	4.55687
45.40	127.62	0.11300	-50.5	538.6	4.65775
44.40	128.25	0.11526	-50.5	542.0	4.78619
43.40	133.68	0.11766	-49.5	548.1	5.10397
42.50	138.67	0.11995	-48.9	552.8	5.40638
41.60	137.22	0.12227	-49.3	555.2	5.46560
40.70	135.30	0.12461	-49.9	557.2	5.50842
39.80	134.67	0.12699	-49.9	560.8	5.60690
39.00	135.26	0.12916	-49.9	564.0	5.74674
38.15	135.53	0.13151	-49.9	567.6	5.88668
37.30	134.58	0.13391	-49.7	571.8	5.97868
36.50	134.19	0.13621	-49.3	576.4	6.09202
35.70	135.78	0.13858	-48.9	581.1	6.30196
34.90	136.92	0.14103	-48.5	585.9	6.50054
34.20	138.51	0.14325	-48.1	590.3	6.71095
33.50	139.90	0.14553	-47.9	594.3	6.91976
32.80	141.55	0.14789	-47.9	597.9	7.15107
32.10	143.30	0.15033	-47.9	601.6	7.39724
31.40	142.71	0.15282	-47.9	605.4	7.53082
30.70	141.44	0.15533	-47.9	609.3	7.63420
30.00	141.48	0.15791	-47.5	614.4	7.81414
29.40	141.77	0.16017	-46.6	620.6	7.99002
28.70	141.74	0.16287	-46.8	624.4	8.18319
28.10	142.44	0.16525	-47.5	626.0	8.39949
27.50	143.63	0.16769	-47.5	629.9	8.65442
26.90	144.23	0.17020	-47.2	634.9	8.88409
26.30	143.63	0.17276	-46.6	640.7	9.04930
25.70	143.04	0.17537	-47.4	642.7	9.22222
25.10	141.85	0.17801	-47.9	645.4	9.36415
24.55	141.25	0.18049	-47.9	649.5	9.53380

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
24.00	141.36	0.18301	-47.7	654.3	9.75997
23.50	141.96	0.18537	-47.5	658.8	10.00944
23.00	141.55	0.18778	-47.4	663.4	10.19797
22.50	141.55	0.19023	-47.4	667.6	10.42459
22.00	141.65	0.19275	-47.5	671.3	10.66894
21.50	140.74	0.19530	-47.7	675.2	10.84693
21.00	138.56	0.19788	-47.7	679.7	10.93335
20.47	138.11	0.20066	-48.1	683.5	11.17971
20.00	137.22	0.20318	-47.4	690.5	11.36904
19.55	136.61	0.20564	-46.4	697.9	11.57901
19.10	136.04	0.20814	-46.6	702.0	11.80182
18.70	129.70	0.21030	-46.8	705.6	11.49311
18.30	128.57	0.21250	-46.4	711.2	11.64188
17.85	127.84	0.21501	-46.2	716.9	11.86691
17.40	127.22	0.21758	-46.4	721.5	12.11492
17.07	126.68	0.21949	-47.0	723.7	12.29647
16.70	123.18	0.22162	-47.4	727.0	12.22258
16.30	121.69	0.22395	-46.0	736.3	12.37043
15.90	119.73	0.22630	-44.6	746.4	12.47744
15.55	116.83	0.22835	-43.0	756.4	12.44905
15.20	115.19	0.23042	-41.4	766.5	12.55735
14.83	114.07	0.23264	-41.9	770.2	12.74562
14.50	112.57	0.23464	-42.4	773.4	12.86431
14.13	112.07	0.23693	-42.4	779.1	13.14255
13.80	109.07	0.23897	-42.4	784.4	13.09667
13.50	105.84	0.24080	-42.1	790.5	12.99047
13.20	104.75	0.24266	-41.2	798.6	13.14921
12.90	102.52	0.24452	-40.9	805.0	13.16833
12.60	101.34	0.24641	-40.6	811.6	13.32671
12.30	100.43	0.24832	-40.4	817.8	13.52974
12.00	98.87	0.25024	-39.7	826.0	13.65233
11.75	95.78	0.25184	-39.4	832.1	13.50670
11.50	100.03	0.25353	-39.1	838.4	14.41338
11.30	99.32	0.25491	-39.1	842.6	14.56465
11.00	93.96	0.25691	-39.2	848.6	14.15433
10.70	92.20	0.25892	-39.7	853.5	14.27768
10.40	87.69	0.26089	-39.7	860.4	13.97072
10.20	87.82	0.26223	-39.6	865.8	14.26584
10.00	84.17	0.26355	-39.4	871.4	13.94691
9.80	82.68	0.26487	-39.2	877.0	13.97962
9.63	81.14	0.26599	-39.1	882.0	13.96231
9.45	80.15	0.26718	-38.7	888.0	14.05418
9.30	79.38	0.26819	-38.7	892.1	14.14276
9.15	78.38	0.26919	-38.9	895.6	14.19429
9.00	77.88	0.27021	-39.1	899.3	14.33920
8.92	76.29	0.27075	-39.1	901.6	14.17192
8.87	75.84	0.27108	-38.9	903.6	14.16725
8.86	74.93	0.27115	-38.7	904.6	14.01395
8.85	75.39	0.27122	-38.7	904.8	14.11453

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
877.00					
869.00	62.09	0.00045	19.7	304.9	0.11840
860.00	60.53	0.00095	19.2	305.3	0.11663
845.00	56.61	0.00173	18.1	305.6	0.11101
837.50	54.06	0.00211	17.6	305.9	0.10696
830.00	51.51	0.00248	17.0	306.0	0.10284
822.00	50.46	0.00287	16.5	306.3	0.10173
815.00	49.95	0.00320	15.9	306.4	0.10156
807.50	49.51	0.00356	14.9	306.2	0.10160
800.00	49.93	0.00393	14.6	306.7	0.10341
793.00	49.34	0.00427	14.3	307.2	0.10310
786.00	47.29	0.00461	13.7	307.3	0.09968
779.00	44.11	0.00492	13.3	307.6	0.09382
771.00	41.54	0.00526	12.6	307.9	0.08928
764.50	40.51	0.00553	12.0	308.0	0.08781
758.00	39.62	0.00579	11.7	308.4	0.08661
751.00	39.10	0.00608	11.5	308.9	0.08628
744.00	38.59	0.00637	10.9	309.1	0.08594
737.00	36.65	0.00664	10.4	309.4	0.08241
730.00	35.56	0.00691	10.3	310.1	0.08072
724.00	34.51	0.00713	10.1	310.7	0.07898
718.00	32.23	0.00734	10.0	311.2	0.07439
711.00	29.79	0.00757	10.0	312.1	0.06942
704.00	27.10	0.00779	9.8	312.8	0.06378
697.00	25.11	0.00798	9.8	313.7	0.05970
690.00	21.92	0.00816	9.7	314.5	0.05264
684.00	21.83	0.00831	9.4	314.9	0.05288
679.00	23.20	0.00844	9.2	315.4	0.05662
672.50	23.66	0.00862	9.1	316.1	0.05829
666.00	23.28	0.00880	9.0	316.9	0.05791
660.00	21.47	0.00895	8.8	317.5	0.05391
654.00	21.03	0.00911	8.8	318.3	0.05329
649.00	19.92	0.00923	8.8	319.0	0.05087
643.00	19.48	0.00937	8.7	319.7	0.05020
637.00	19.48	0.00951	8.2	320.1	0.05067
631.00	19.47	0.00966	7.7	320.3	0.05112
626.00	19.98	0.00979	7.2	320.5	0.05287
620.00	19.96	0.00994	6.5	320.6	0.05336
614.50	20.04	0.01008	5.8	320.6	0.05403
609.00	20.04	0.01022	5.1	320.6	0.05452
603.50	20.48	0.01037	4.6	320.8	0.05623
598.00	20.92	0.01052	4.1	321.1	0.05797
592.50	21.44	0.01067	3.5	321.3	0.05995
587.00	21.45	0.01083	2.8	321.3	0.06055
581.00	19.46	0.01099	2.0	321.4	0.05549
574.00	18.41	0.01117	1.3	321.7	0.05315
568.50	16.37	0.01129	0.9	322.1	0.04771
563.00	15.78	0.01141	0.2	322.1	0.04645
557.00	14.79	0.01154	-0.8	321.9	0.04399
550.00	14.92	0.01169	-1.5	322.3	0.04495
545.00	15.49	0.01180	-2.3	322.1	0.04708
540.00	15.55	0.01191	-3.3	321.8	0.04773
534.00	15.61	0.01205	-4.4	321.5	0.04845
529.00	15.11	0.01216	-5.2	321.4	0.04732
523.00	15.18	0.01230	-6.2	321.3	0.04810
517.00	14.56	0.01243	-6.8	321.6	0.04667

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
511.50	14.50	0.01255	-7.5	321.7	0.04698
505.00	13.93	0.01269	-8.0	322.3	0.04569
500.00	13.36	0.01280	-8.7	322.4	0.04427
494.00	13.98	0.01293	-9.4	322.6	0.04690
489.00	13.98	0.01304	-10.2	322.6	0.04738
484.00	14.55	0.01316	-11.0	322.6	0.04982
478.00	14.55	0.01331	-11.8	322.7	0.05045
473.00	14.55	0.01343	-12.6	322.7	0.05098
467.50	14.49	0.01356	-13.4	322.8	0.05137
462.00	14.49	0.01370	-14.2	322.9	0.05199
457.00	13.93	0.01382	-15.0	322.9	0.05049
452.00	13.36	0.01393	-15.8	322.9	0.04897
447.00	12.79	0.01404	-16.6	322.9	0.04741
442.00	12.79	0.01416	-17.4	322.9	0.04794
437.00	12.84	0.01427	-18.0	323.3	0.04870
432.00	12.33	0.01438	-18.9	323.1	0.04728
427.00	11.76	0.01449	-19.6	323.4	0.04565
422.00	10.70	0.01459	-19.9	324.1	0.04202
417.00	10.66	0.01469	-20.3	324.7	0.04235
412.00	9.60	0.01478	-20.9	324.9	0.03861
407.50	10.13	0.01487	-21.5	325.3	0.04119
402.50	10.61	0.01498	-22.0	325.7	0.04367
397.00	10.60	0.01509	-22.3	326.6	0.04425
392.00	11.08	0.01520	-22.6	327.5	0.04683
383.00	11.12	0.01541	-23.5	328.4	0.04813
378.00	11.07	0.01552	-24.2	328.7	0.04854
373.00	11.55	0.01564	-25.1	328.8	0.05133
368.50	11.08	0.01575	-25.6	329.2	0.04982
364.00	10.60	0.01585	-26.5	329.3	0.04827
359.00	11.07	0.01597	-27.2	329.6	0.05111
354.00	11.60	0.01610	-28.3	329.4	0.05429
350.00	12.18	0.01621	-29.2	329.4	0.05766
345.00	11.59	0.01634	-30.0	329.5	0.05568
340.50	11.59	0.01646	-31.0	329.4	0.05642
336.00	12.12	0.01659	-31.6	329.8	0.05976
332.00	11.60	0.01670	-32.5	329.7	0.05789
327.00	11.12	0.01683	-33.3	330.1	0.05637
323.00	11.70	0.01695	-34.3	329.8	0.06004
318.00	12.29	0.01710	-35.3	330.0	0.06403
314.00	12.23	0.01722	-35.9	330.4	0.06456
310.00	11.71	0.01734	-36.5	330.7	0.06260
306.00	11.18	0.01745	-37.3	330.8	0.06055
302.00	11.18	0.01757	-37.9	331.2	0.06135
297.50	11.23	0.01770	-38.9	331.2	0.06256
293.00	11.23	0.01784	-40.1	331.0	0.06353
289.00	11.76	0.01796	-40.7	331.4	0.06741
285.00	12.45	0.01810	-41.4	331.7	0.07237
281.00	14.75	0.01827	-42.4	331.6	0.08700
277.00	17.99	0.01847	-43.0	332.2	0.10764
273.00	21.71	0.01872	-43.8	332.3	0.13177
269.00	27.06	0.01903	-44.0	333.4	0.16667
264.80	34.60	0.01946	-44.2	334.7	0.21654
260.00	41.12	0.02006	-44.2	336.4	0.26204
256.50	42.16	0.02051	-44.2	337.7	0.27232
252.50	43.77	0.02105	-44.2	339.3	0.28725

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
248.50	40.72	0.02157	-44.2	340.8	0.27155
244.00	40.75	0.02215	-44.2	342.6	0.27671
240.00	40.35	0.02268	-44.4	344.0	0.27860
236.00	39.31	0.02320	-44.2	345.9	0.27597
232.30	37.17	0.02367	-44.2	347.4	0.26511
229.00	35.75	0.02407	-44.2	348.9	0.25866
225.00	32.80	0.02453	-44.2	350.6	0.24159
221.00	30.27	0.02495	-44.4	352.2	0.22693
217.00	27.09	0.02534	-44.7	353.4	0.20684
213.00	26.48	0.02573	-44.9	355.0	0.20599
209.50	25.59	0.02607	-45.5	355.9	0.20242
206.00	23.17	0.02638	-46.0	356.7	0.18637
202.40	21.76	0.02668	-46.2	358.2	0.17813
198.80	22.29	0.02700	-46.0	360.3	0.18579
195.50	23.18	0.02730	-46.0	362.1	0.19649
192.00	21.76	0.02761	-46.0	363.9	0.18778
188.50	19.11	0.02789	-46.4	365.3	0.16798
185.00	15.95	0.02813	-47.4	365.7	0.14284
181.50	18.05	0.02840	-47.9	366.7	0.16483
178.00	18.66	0.02869	-48.7	367.5	0.17370
174.70	18.14	0.02895	-49.7	367.8	0.17201
171.50	18.14	0.02922	-50.5	368.4	0.17522
168.20	18.14	0.02950	-51.4	369.1	0.17866
165.00	18.67	0.02978	-51.8	370.4	0.18749
162.00	18.21	0.03004	-52.2	371.6	0.18622
159.00	17.28	0.03030	-52.7	372.9	0.18008
155.80	18.15	0.03059	-53.5	373.6	0.19298
152.50	19.30	0.03092	-54.0	375.1	0.20970
150.00	19.90	0.03118	-54.7	375.7	0.21985
147.00	21.61	0.03152	-55.4	376.6	0.24358
144.00	26.57	0.03195	-55.8	378.1	0.30580
141.00	29.27	0.03244	-56.1	379.9	0.34398
138.20	29.81	0.03291	-56.1	382.1	0.35742
135.00	28.75	0.03344	-55.8	385.1	0.35285
132.50	26.53	0.03383	-56.1	386.7	0.33179
130.00	26.62	0.03423	-56.3	388.4	0.33930
127.00	27.89	0.03475	-56.8	390.1	0.36385
124.00	30.17	0.03532	-56.8	392.8	0.40314
121.60	32.21	0.03582	-56.8	395.0	0.43887
119.00	33.60	0.03639	-57.1	397.0	0.46781
116.50	47.34	0.03718	-57.1	399.4	0.67336
114.00	55.56	0.03813	-57.1	401.9	0.80757
111.50	60.47	0.03919	-57.1	404.5	0.89859
109.00	61.56	0.04029	-57.1	407.1	0.93577
106.60	61.39	0.04137	-57.3	409.2	0.95419
104.00	62.47	0.04259	-57.1	412.6	0.99538
102.00	68.60	0.04364	-56.8	415.3	1.11443
100.00	80.33	0.04490	-56.6	418.2	1.33102
97.50	83.20	0.04656	-56.3	421.7	1.41402
95.00	91.31	0.04844	-56.3	424.8	1.59269
92.90	92.22	0.05006	-56.1	428.0	1.64486
90.80	92.22	0.05173	-56.1	430.8	1.68291
88.60	100.71	0.05368	-56.1	433.8	1.88340
86.50	113.10	0.05582	-56.1	436.8	2.16659
84.30	121.05	0.05828	-55.8	440.5	2.37932

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
82.20	130.18	0.06087	-55.6	444.2	2.62410
80.40	124.04	0.06304	-55.4	447.5	2.55632
78.10	123.31	0.06587	-55.1	451.7	2.61612
76.20	127.67	0.06835	-54.9	455.4	2.77632
74.10	134.27	0.07131	-54.7	459.5	3.00251
72.10	136.70	0.07427	-54.7	463.1	3.14160
70.10	133.87	0.07724	-54.2	467.9	3.16437
68.10	134.35	0.08031	-53.5	473.2	3.26890
66.20	134.35	0.08331	-52.7	479.0	3.36272
64.40	133.75	0.08622	-52.4	483.2	3.44142
62.50	131.95	0.08934	-52.2	487.8	3.49818
60.70	129.16	0.09232	-52.9	490.5	3.52583
58.90	131.87	0.09546	-53.5	493.2	3.70988
57.10	141.40	0.09892	-52.9	499.1	4.10320
55.30	150.77	0.10274	-52.2	505.2	4.51762
53.70	151.78	0.10625	-51.8	510.5	4.68339
52.00	146.79	0.10998	-51.4	516.2	4.67764
50.40	141.80	0.11348	-50.5	522.7	4.66184
48.80	141.71	0.11709	-50.1	528.6	4.81162
47.20	142.26	0.12084	-49.9	534.1	4.99413
45.60	144.45	0.12477	-50.1	538.9	5.24897
44.10	149.16	0.12871	-50.1	544.1	5.60461
42.60	151.17	0.13284	-50.1	549.5	5.88019
41.00	148.66	0.13733	-49.9	556.0	6.00804
39.60	152.87	0.14152	-49.3	563.1	6.39663
38.25	149.42	0.14562	-48.7	570.2	6.47293
36.80	151.35	0.15024	-48.5	577.1	6.81488
35.40	153.82	0.15495	-48.3	584.0	7.19985
34.00	155.29	0.15989	-48.1	591.3	7.56800
32.60	157.64	0.16513	-47.9	599.0	8.01246
31.40	158.05	0.16981	-47.9	605.4	8.34032
30.00	154.99	0.17539	-47.9	613.4	8.56087
28.80	154.41	0.18036	-48.1	620.0	8.88377
27.60	154.35	0.18555	-48.3	627.1	9.26636
26.30	151.34	0.19132	-48.7	634.6	9.53472
25.30	149.33	0.19589	-48.1	643.4	9.78013
24.10	145.74	0.20148	-47.9	653.0	10.02039
23.15	143.40	0.20603	-47.7	661.1	10.26399
22.10	141.64	0.21122	-47.5	670.5	10.61997
21.20	141.70	0.21587	-47.4	679.1	11.07523
20.40	141.53	0.22017	-46.4	689.5	11.49603
19.50	139.81	0.22515	-46.2	699.0	11.88060
18.75	135.11	0.22934	-47.2	703.9	11.94035
18.10	128.65	0.23292	-47.5	709.8	11.77787
17.40	126.48	0.23686	-47.2	719.1	12.04474
16.83	128.52	0.24024	-46.2	729.0	12.65318
16.30	127.43	0.24346	-45.8	736.9	12.95414
15.75	124.54	0.24683	-45.3	746.0	13.10220
15.20	120.55	0.25022	-43.8	758.4	13.14196
14.70	115.68	0.25327	-42.3	771.0	13.03922
14.30	112.44	0.25572	-41.7	778.8	13.02928
13.85	110.14	0.25850	-41.6	786.5	13.17668
13.40	108.15	0.26132	-41.1	795.7	13.37298
13.00	103.74	0.26380	-40.6	804.4	13.22317
12.60	101.95	0.26632	-40.2	812.8	13.40771

Table 37 (continued)

WASHINGTON,D.C. 10/2/70 1516Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
12.30	99.70	0.26822	-40.1	819.0	13.43084
12.00	97.07	0.27011	-40.1	824.8	13.40353
11.64	93.24	0.27235	-39.9	832.6	13.27315
11.30	90.40	0.27447	-39.7	840.3	13.25547
11.00	89.12	0.27636	-40.1	845.6	13.42543
10.70	87.19	0.27826	-40.1	852.3	13.50262
10.47	83.35	0.27969	-40.2	857.0	13.19169
10.20	81.38	0.28137	-39.7	865.2	13.21955
10.00	81.60	0.28265	-39.6	870.8	13.52088
9.78	81.55	0.28408	-39.9	875.1	13.81733
9.64	80.56	0.28500	-40.2	877.4	13.84759
9.50	79.79	0.28592	-40.1	881.7	13.91679
9.35	78.30	0.28690	-39.9	886.4	13.87571
9.20	76.27	0.28788	-39.4	892.4	13.73611
9.08	76.19	0.28867	-39.2	896.4	13.90323
8.97	76.00	0.28940	-38.9	900.7	14.03910
8.90	75.55	0.28987	-38.6	904.0	14.06566
8.85	75.47	0.29020	-38.6	905.5	14.13019

Table 38

WASHINGTON,D.C. 12/1/70 1604Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1024.10	3.7	-1.6	3.26788	275.0		
1013.80	3.9	-1.6	3.30126	275.9	0.03452148	0.03452148
1002.00	4.0	-1.6	3.34034	277.0	0.03998513	0.07450661
991.00	4.0	-1.6	3.37762	277.9	0.03770286	0.11220947
978.00	4.0	-1.6	3.42276	278.9	0.04510460	0.15731407
965.00	4.0	-1.6	3.46913	280.0	0.04571156	0.20302563
948.00	4.6	-1.6	3.53170	282.0	0.06072146	0.26374709
935.00	5.1	-1.6	3.58108	283.7	0.04717658	0.31092367
919.00	6.3	-0.8	3.88501	286.3	0.06094765	0.37187132
904.00	7.7	-0.8	3.94988	289.1	0.05996084	0.43183217
888.00	8.2	-2.3	3.54378	291.1	0.06117275	0.49300492
874.00	8.0	-1.6	3.83256	292.2	0.05268817	0.54569309
860.00	7.2	-0.0	4.43668	292.7	0.05906599	0.60475909
846.00	6.1	0.8	4.73600	293.0	0.06551917	0.67027826
830.00	5.1	2.5	5.47407	293.5	0.08334758	0.75362584
815.00	4.1	-0.8	4.38426	294.0	0.07544640	0.82907224
804.00	3.6	-1.6	4.16848	294.5	0.04800003	0.87707227
791.50	4.0	-14.0	1.42332	296.3	0.03566200	0.91273427
778.00	4.1	-17.6	1.03674	297.9	0.01694433	0.92967861
765.00	4.4	-19.4	0.89132	299.7	0.01278816	0.94246677
751.00	4.7	-24.5	0.55007	301.6	0.01029565	0.95276242
739.00	3.9	-25.8	0.49035	302.0	0.00636995	0.95913237
726.00	3.2	-27.5	0.41962	302.8	0.00603557	0.96516794
713.50	2.3	-23.1	0.66453	303.4	0.00691423	0.97208217
700.00	1.4	-24.2	0.60633	304.0	0.00875336	0.98083553
689.00	0.8	-24.0	0.63305	304.7	0.00695571	0.98779124
677.00	0.1	-24.0	0.64428	305.5	0.00782039	0.99561163
665.00	-0.6	-12.2	1.99797	306.3	0.01617703	1.01178866
652.00	-1.8	-8.1	2.94289	306.7	0.03277100	1.04455967
641.00	-2.9	-8.7	2.84999	306.9	0.03251105	1.07707071
631.70	-3.9	-10.3	2.51011	307.0	0.02543313	1.10250384
626.00	-4.4	-10.8	2.42062	307.2	0.01433939	1.11684323
619.60	-4.6	-11.3	2.33914	307.9	0.01554208	1.13238531
613.00	-5.0	-12.2	2.16804	308.4	0.01517725	1.14756255
607.00	-5.4	-12.7	2.09905	308.8	0.01306252	1.16062508
600.00	-5.9	-13.1	2.03732	309.3	0.01477274	1.17539782
596.00	-6.4	-14.9	1.74914	309.2	0.00772746	1.18312528
589.00	-6.8	-15.7	1.64062	309.8	0.01210628	1.19523156
583.00	-7.2	-16.5	1.53988	310.3	0.00973623	1.20496779
577.00	-7.8	-16.9	1.50089	310.4	0.00930849	1.21427628
571.80	-8.2	-16.5	1.57012	310.8	0.00814758	1.22242387
566.00	-8.6	-16.9	1.53013	311.2	0.00917422	1.23159808
559.60	-9.3	-18.0	1.39335	311.5	0.00954606	1.24114414
553.00	-9.8	-18.3	1.36279	311.9	0.00928089	1.25042502
547.00	-10.4	-18.7	1.33224	312.2	0.00825010	1.25867512
541.00	-11.1	-19.7	1.22100	312.4	0.00781603	1.26649115
535.30	-11.7	-19.7	1.23403	312.6	0.00713961	1.27363076
530.00	-12.5	-19.7	1.24639	312.5	0.00670725	1.28033801
524.30	-13.2	-21.0	1.11147	312.6	0.00685705	1.28719506
519.00	-14.0	-22.2	0.99626	312.6	0.00569949	1.29289455
514.00	-14.6	-22.5	0.97715	312.7	0.00503421	1.29792875
509.00	-15.5	-23.1	0.93191	312.5	0.00487005	1.30279881
503.00	-16.3	-23.1	0.94304	312.6	0.00573966	1.30853847
497.00	-17.0	-23.4	0.92796	312.8	0.00572758	1.31426605
491.50	-17.5	-23.7	0.91260	313.1	0.00516484	1.31943088

Table 38 (continued)

WASHINGTON,D.C. 12/1/70 1604Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
486.00	-18.2	-24.2	0.87369	313.4	0.00501254	1.32444343
480.30	-18.5	-24.0	0.90852	314.0	0.00518298	1.32962640
475.00	-19.3	-23.7	0.94434	314.0	0.00501030	1.33463671
469.20	-19.8	-23.4	0.98303	314.5	0.00570346	1.34034017
464.00	-20.4	-23.1	1.02244	314.7	0.00532064	1.34566081
458.40	-20.9	-23.7	0.97860	315.2	0.00571724	1.35137805
453.00	-21.3	-24.0	0.96336	315.8	0.00535029	1.35672834
448.00	-22.1	-24.2	0.94791	315.8	0.00487570	1.36160404
442.00	-22.6	-24.2	0.96080	316.4	0.00584301	1.36744704
437.00	-23.4	-24.5	0.94592	316.4	0.00486408	1.37231113
432.00	-24.0	-25.3	0.88382	316.7	0.00466769	1.37697882
426.50	-24.7	-25.6	0.87228	317.0	0.00492783	1.38190665
421.00	-25.0	-26.1	0.83958	317.7	0.00480371	1.38671036
415.60	-25.3	-26.1	0.85051	318.5	0.00465637	1.39136673
410.00	-25.8	-26.8	0.79979	319.1	0.00471514	1.39608187
405.00	-26.2	-27.1	0.79003	319.7	0.00405566	1.40013753
400.00	-26.6	-27.1	0.79991	320.4	0.00405597	1.40419350
395.00	-27.2	-28.0	0.73577	320.7	0.00391755	1.40811104
390.00	-27.8	-28.9	0.67903	321.1	0.00360916	1.41172021
385.00	-28.4	-29.8	0.62861	321.5	0.00333582	1.41505603
380.00	-29.0	-30.4	0.59637	322.0	0.00312495	1.41818098
375.00	-29.8	-31.4	0.54334	322.1	0.00290741	1.42108838
370.00	-30.3	-32.2	0.50711	322.7	0.00267971	1.42376809
365.00	-31.0	-33.0	0.47443	323.0	0.00250393	1.42627202
360.00	-31.6	-33.9	0.43638	323.4	0.00232351	1.42859553
355.00	-32.7	-34.7	0.40266	323.2	0.00214043	1.43073595
350.00	-33.5	-35.9	0.35949	323.4	0.00194427	1.43268023
345.50	-34.2	-36.9	0.32772	323.7	0.00157779	1.43425802
341.00	-35.1	-38.1	0.28995	323.8	0.00141813	1.43567615
336.40	-35.9	-39.5	0.24992	323.9	0.00126705	1.43694320
332.00	-36.8	-40.1	0.23782	323.9	0.00109493	1.43803812
327.00	-37.5	-40.6	0.22701	324.3	0.00118578	1.43922391
322.50	-38.4	-41.3	0.21340	324.4	0.00101114	1.44023504
318.00	-39.3	-41.8	0.20393	324.5	0.00095815	1.44119320
313.00	-40.2	-42.5	0.19260	324.7	0.00101157	1.44220476
308.80	-41.1	-42.8	0.18698	324.7	0.00081340	1.44301816
304.00	-42.1	-43.6	0.17449	324.6	0.00088523	1.44390340
300.00	-42.8	-44.4	0.16051	325.0	0.00068367	1.44458707
296.00	-43.4	-45.2	0.14802	325.3	0.00062965	1.44521671
291.50	-44.2	-45.9	0.13884	325.6	0.00065860	1.44587532
287.00	-44.9	-46.8	0.12554	326.1	0.00060700	1.44648231
282.70	-45.7	-48.4	0.10568	326.4	0.00050726	1.44698957
278.00	-46.7	-49.2	0.09753	326.5	0.00048729	1.44747686
274.30	-47.7	-49.2	0.09885	326.3	0.00037072	1.44784758
270.00	-48.6	-49.7	0.09461	326.5	0.00042442	1.44827200
266.20	-49.6	-50.2	0.08941	326.2	0.00035678	1.44862878
262.00	-50.6	-50.6	0.08671	326.4	0.00037741	1.44900619
258.20	-51.5	-51.2	0.08118	326.4	0.00032550	1.44933169
254.00	-52.1	-51.9	0.07622	327.1	0.00033729	1.44966898
250.00	-53.0	-52.4	0.07241	327.1	0.00030333	1.44997230
246.00	-53.8	-53.3	0.06590	327.5	0.00028226	1.45025456
242.00	-54.6	-53.7	0.06344	327.8	0.00026395	1.45051851
238.00	-55.4	-53.5	0.06592	328.1	0.00026399	1.45078250
234.00	-56.1	-55.3	0.05355	328.7	0.00024382	1.45102631
230.00	-57.1	-57.7	0.03956	328.7	0.00019002	1.45121633

Table 38 (continued)

WASHINGTON,D.C. 12/1/70 1604Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
226.40	-57.8	-58.7	0.03526	329.2	0.00013741	1.45135375
223.00	-58.7	-58.7	0.03579	329.3	0.00012325	1.45147700
219.40	-59.6	-58.7	0.03638	329.4	0.00013256	1.45160956
216.00	-59.2	-58.9	0.03586	331.6	0.00012532	1.45173488
212.50	-58.2	-60.4	0.02991	334.5	0.00011744	1.45185232
209.00	-57.6	-64.0	0.01855	337.2	0.00008652	1.45193885
205.50	-57.6	-66.6	0.01296	338.8	0.00005626	1.45199510
202.00	-57.6	-68.8	0.00958	340.5	0.00004024	1.45203535
198.50	-57.6	-69.9	0.00826	342.2	0.00003185	1.45206719
195.00	-57.6	-70.3	0.00800	343.9	0.00002903	1.45209623
191.40	-57.8	-70.5	0.00792	345.4	0.00002924	1.45212546
188.00	-58.2	-70.5	0.00806	346.5	0.00002771	1.45215317
184.50	-59.2	-70.5	0.00813	346.8	0.00002891	1.45218208
181.00	-59.6	-71.1	0.00766	348.0	0.00002820	1.45221028
177.40	-60.1	-71.7	0.00707	349.2	0.00002706	1.45223734
174.00	-60.6	-72.8	0.00614	350.4	0.00002292	1.45226026
171.00	-61.1	-73.3	0.00576	351.3	0.00001822	1.45227848
168.00	-61.5	-73.8	0.00546	352.3	0.00001717	1.45229565
164.60	-62.0	-74.4	0.00502	353.5	0.00001818	1.45231382
161.50	-62.5	-75.5	0.00433	354.6	0.00001479	1.45232861
158.20	-63.1	-76.5	0.00376	355.8	0.00001361	1.45234222
155.00	-63.9	-77.8	0.00315	356.5	0.00001127	1.45235349
152.30	-64.1	-78.5	0.00286	357.9	0.00000827	1.45236176
149.30	-64.7	-78.6	0.00288	359.0	0.00000879	1.45237055
146.60	-64.9	-78.7	0.00287	360.4	0.00000792	1.45237848
144.00	-64.9	-78.8	0.00289	362.2	0.00000764	1.45238611
141.00	-65.2	-78.7	0.00298	363.9	0.00000899	1.45239510
138.00	-65.5	-78.6	0.00308	365.7	0.00000929	1.45240439
135.60	-65.8	-78.7	0.00310	367.0	0.00000757	1.45241196
133.00	-66.1	-78.8	0.00309	368.6	0.00000822	1.45242018
130.40	-65.8	-79.0	0.00308	371.2	0.00000819	1.45242836
128.00	-65.2	-79.1	0.00310	374.1	0.00000757	1.45243593
125.50	-64.9	-79.1	0.00313	376.8	0.00000795	1.45244388
123.00	-64.7	-79.3	0.00308	379.4	0.00000792	1.45245180
120.40	-64.4	-79.6	0.00300	382.2	0.00000807	1.45245987
118.00	-64.1	-79.8	0.00296	384.9	0.00000730	1.45246717
115.50	-63.3	-80.0	0.00295	388.8	0.00000754	1.45247471
113.00	-63.1	-80.4	0.00281	391.7	0.00000734	1.45248205
110.50	-62.5	-80.7	0.00273	395.2	0.00000707	1.45248911
108.00	-63.1	-81.2	0.00260	396.8	0.00000680	1.45249591
105.70	-63.3	-81.1	0.00269	398.8	0.00000620	1.45250211
103.00	-63.9	-81.1	0.00276	400.7	0.00000750	1.45250961
100.70	-64.1	-80.9	0.00289	402.8	0.00000663	1.45251624
98.00	-64.4	-80.9	0.00297	405.4	0.00000807	1.45252431
95.80	-64.7	-80.9	0.00304	407.5	0.00000674	1.45253106
93.50	-64.9	-81.0	0.00308	409.8	0.00000717	1.45253823
91.30	-64.9	-81.2	0.00307	412.6	0.00000690	1.45254513
89.00	-65.2	-81.2	0.00315	415.1	0.00000730	1.45255244
87.00	-65.5	-81.2	0.00318	417.2	0.00000647	1.45255890
84.70	-65.8	-81.4	0.00319	419.8	0.00000748	1.45256639
82.80	-66.1	-81.5	0.00322	422.0	0.00000622	1.45257260
80.80	-66.1	-81.5	0.00326	425.0	0.00000662	1.45257922
78.60	-64.9	-81.8	0.00323	430.6	0.00000729	1.45258651
76.20	-64.4	-82.0	0.00321	435.6	0.00000788	1.45259439
74.20	-64.1	-82.1	0.00321	439.5	0.00000655	1.45260093

Table 38 (continued)

WASHINGTON,D.C. 12/1/70 1604Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
72.30	-63.6	-82.4	0.00317	443.9	0.00000618	1.45260711
70.30	-63.3	-82.8	0.00305	448.0	0.00000635	1.45261346
68.40	-63.1	-83.1	0.00298	452.1	0.00000585	1.45261931
66.60	-63.1	-83.5	0.00286	455.6	0.00000536	1.45262467
64.90	-63.6	-83.5	0.00293	457.8	0.00000503	1.45262969
63.00	-63.9	-83.7	0.00290	461.1	0.00000566	1.45263535
61.20	-63.3	-83.8	0.00295	466.1	0.00000537	1.45264072
59.20	-63.1	-83.9	0.00301	471.2	0.00000607	1.45264680
57.50	-62.8	-83.9	0.00305	475.7	0.00000525	1.45265205
55.80	-62.5	-84.1	0.00306	480.4	0.00000530	1.45265736
54.10	-62.3	-84.3	0.00307	485.2	0.00000532	1.45266267
52.50	-62.0	-84.4	0.00308	490.0	0.00000502	1.45266769
50.90	-61.8	-84.5	0.00313	494.9	0.00000507	1.45267275
49.30	-61.5	-84.6	0.00319	500.1	0.00000515	1.45267791
47.70	-61.3	-84.8	0.00320	505.4	0.00000521	1.45268312
46.20	-60.8	-85.0	0.00317	511.2	0.00000487	1.45268799
44.80	-60.6	-85.2	0.00317	516.3	0.00000453	1.45269252
43.30	-60.1	-85.3	0.00319	522.5	0.00000487	1.45269739
41.70	-59.9	-85.5	0.00322	528.7	0.00000523	1.45270262
40.30	-59.9	-85.9	0.00309	533.9	0.00000450	1.45270712
38.70	-59.6	-86.4	0.00298	540.7	0.00000496	1.45271208
37.10	-59.4	-86.8	0.00288	547.9	0.00000479	1.45271687
35.70	-59.4	-87.2	0.00277	553.9	0.00000404	1.45272090
34.20	-59.6	-87.6	0.00271	560.2	0.00000419	1.45272510
32.80	-59.9	-87.8	0.00274	566.3	0.00000389	1.45272899
31.30	-59.6	-88.0	0.00278	574.5	0.00000422	1.45273321
29.90	-59.4	-88.2	0.00277	582.7	0.00000396	1.45273717
28.40	-59.2	-88.6	0.00272	592.0	0.00000420	1.45274137
27.10	-58.5	-88.8	0.00276	601.9	0.00000364	1.45274500
25.90	-58.2	-89.1	0.00274	610.4	0.00000337	1.45274837
24.80	-58.0	-89.3	0.00276	618.6	0.00000309	1.45275146
23.80	-57.8	-89.6	0.00273	626.6	0.00000280	1.45275426
22.80	-57.6	-89.8	0.00275	635.0	0.00000280	1.45275706
21.90	-57.1	-89.9	0.00281	643.6	0.00000255	1.45275961
21.00	-56.9	-90.1	0.00283	652.1	0.00000259	1.45276220
20.20	-57.1	-90.2	0.00289	658.7	0.00000233	1.45276454
19.50	-57.4	-90.5	0.00283	664.7	0.00000204	1.45276658
18.80	-56.9	-90.7	0.00283	673.0	0.00000202	1.45276860
18.10	-55.6	-90.8	0.00288	684.4	0.00000204	1.45277063
17.55	-55.2	-90.9	0.00291	691.7	0.00000163	1.45277226
17.00	-55.4	-91.0	0.00295	697.4	0.00000165	1.45277391
16.44	-55.4	-91.1	0.00299	704.1	0.00000170	1.45277561
15.90	-55.4	-91.2	0.00304	710.8	0.00000166	1.45277727
15.40	-55.4	-91.4	0.00302	717.4	0.00000154	1.45277881
14.90	-55.4	-91.6	0.00300	724.2	0.00000153	1.45278034
14.50	-55.4	-91.7	0.00302	729.8	0.00000123	1.45278157
14.10	-55.4	-91.8	0.00304	735.7	0.00000124	1.45278281
13.70	-55.4	-91.9	0.00307	741.7	0.00000125	1.45278405
13.30	-55.2	-92.1	0.00310	748.8	0.00000126	1.45278531
12.95	-55.0	-92.2	0.00312	755.2	0.00000111	1.45278642
12.60	-54.8	-92.3	0.00314	761.9	0.00000112	1.45278754
12.30	-54.0	-92.5	0.00308	770.0	0.00000095	1.45278849
12.00	-53.8	-92.7	0.00303	776.1	0.00000094	1.45278943
11.68	-53.6	-92.8	0.00305	782.8	0.00000099	1.45279042
11.40	-53.4	-93.1	0.00299	789.0	0.00000086	1.45279128

Table 38 (continued)

WASHINGTON,D.C. 12/1/70 1604Z WATER VAPOR DATA

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
11.20	-53.0	-93.2	0.00298	794.4	0.00000061	1.45279189
11.00	-52.3	-93.3	0.00297	801.3	0.00000061	1.45279250
10.80	-52.1	-93.4	0.00296	806.2	0.00000060	1.45279310
10.60	-51.9	-93.5	0.00295	811.2	0.00000060	1.45279370
10.44	-51.3	-93.9	0.00280	816.9	0.00000047	1.45279417
10.30	-51.1	-93.9	0.00283	820.7	0.00000040	1.45279457
10.20	-50.7	-94.0	0.00280	824.4	0.00000029	1.45279486

Table 39

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
1024.10					
1013.80	0.38	0.00000	3.9	275.9	0.00062
1002.00	0.32	0.00000	4.0	277.0	0.00053
991.00	1.72	0.00001	4.0	277.9	0.00287
978.00	6.21	0.00008	4.0	278.9	0.01052
965.00	13.47	0.00022	4.0	280.0	0.02313
948.00	17.90	0.00047	4.6	282.0	0.03129
935.00	27.65	0.00077	5.1	283.7	0.04900
919.00	29.48	0.00118	6.3	286.3	0.05315
904.00	31.78	0.00159	7.7	289.1	0.05824
888.00	32.97	0.00205	8.2	291.1	0.06152
874.00	36.71	0.00251	8.0	292.2	0.06960
860.00	39.16	0.00301	7.2	292.7	0.07545
846.00	38.35	0.00351	6.1	293.0	0.07512
830.00	37.26	0.00407	5.1	293.5	0.07438
815.00	35.07	0.00458	4.1	294.0	0.07130
804.00	34.52	0.00495	3.6	294.5	0.07114
791.50	33.57	0.00536	4.0	296.3	0.07027
778.00	32.95	0.00581	4.1	297.9	0.07017
765.00	31.75	0.00623	4.4	299.7	0.06878
751.00	35.04	0.00674	4.7	301.6	0.07732
739.00	35.57	0.00720	3.9	302.0	0.07975
726.00	35.02	0.00769	3.2	302.8	0.07993
713.50	34.47	0.00816	2.3	303.4	0.08006
700.00	32.93	0.00866	1.4	304.0	0.07794
689.00	31.85	0.00906	0.8	304.7	0.07660
677.00	30.54	0.00948	0.1	305.5	0.07475
665.00	28.63	0.00988	-0.6	306.3	0.07134
652.00	26.46	0.01030	-1.8	306.7	0.06725
641.00	22.58	0.01060	-2.9	306.9	0.05838
630.00	21.99	0.01090	-4.1	307.1	0.05783
619.00	20.87	0.01119	-5.1	307.4	0.05587
607.00	19.22	0.01149	-5.9	308.2	0.05248
596.00	18.57	0.01175	-6.7	308.9	0.05164
584.00	17.93	0.01204	-7.3	310.0	0.05086
573.00	15.98	0.01228	-8.2	310.6	0.04621
562.00	15.05	0.01251	-9.1	311.3	0.04436
552.00	14.45	0.01272	-9.9	312.0	0.04337
542.00	14.98	0.01293	-11.1	312.2	0.04579
532.00	15.04	0.01316	-12.3	312.4	0.04683
522.00	14.49	0.01337	-13.5	312.7	0.04599
512.00	14.49	0.01359	-14.6	313.0	0.04689
503.80	13.95	0.01377	-16.0	312.8	0.04587
494.00	13.35	0.01398	-17.2	313.2	0.04477
484.00	12.19	0.01418	-18.3	313.6	0.04173
475.00	11.58	0.01435	-19.3	314.0	0.04039
465.00	10.98	0.01453	-20.2	314.8	0.03912
456.50	10.37	0.01468	-21.2	315.2	0.03764
447.00	10.92	0.01486	-22.1	316.0	0.04050
438.00	10.33	0.01503	-23.1	316.6	0.03906
429.00	11.47	0.01522	-24.0	317.3	0.04430
419.60	12.60	0.01544	-24.8	318.3	0.04977
411.00	12.00	0.01563	-25.7	319.0	0.04838
403.50	10.81	0.01579	-26.5	319.7	0.04440
394.00	10.21	0.01598	-27.4	320.7	0.04295
386.00	11.94	0.01618	-28.3	321.4	0.05124

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
378.00	12.53	0.01638	-29.4	321.9	0.05491
370.00	11.98	0.01659	-30.3	322.7	0.05364
361.00	11.92	0.01682	-31.2	323.7	0.05472
353.00	11.97	0.01703	-32.3	324.3	0.05619
345.00	11.37	0.01724	-33.8	324.4	0.05461
337.50	11.41	0.01743	-35.4	324.3	0.05602
329.00	11.46	0.01766	-36.9	324.6	0.05771
321.00	11.45	0.01789	-38.4	324.8	0.05911
313.00	11.49	0.01812	-39.9	325.1	0.06083
305.00	10.84	0.01834	-41.2	325.6	0.05890
298.00	8.46	0.01849	-42.8	325.6	0.04704
291.00	7.83	0.01864	-44.2	325.8	0.04456
284.00	7.23	0.01878	-45.7	325.9	0.04218
277.00	7.19	0.01892	-47.2	326.1	0.04302
270.00	7.19	0.01907	-48.6	326.5	0.04414
263.00	7.78	0.01923	-50.2	326.6	0.04899
256.00	8.99	0.01942	-51.5	327.2	0.05820
249.50	10.76	0.01964	-52.8	327.6	0.07144
243.00	9.58	0.01984	-54.0	328.3	0.06530
236.00	8.98	0.02004	-55.4	328.9	0.06305
230.00	9.57	0.02024	-56.9	329.1	0.06895
224.00	9.52	0.02044	-57.6	330.6	0.07045
218.00	8.97	0.02063	-58.2	332.1	0.06818
211.70	8.96	0.02084	-57.8	335.6	0.07016
206.00	8.96	0.02103	-57.1	339.3	0.07206
201.00	9.50	0.02121	-57.1	341.6	0.07832
195.00	8.91	0.02143	-57.1	344.6	0.07571
190.00	8.90	0.02161	-57.6	346.5	0.07765
185.00	7.76	0.02177	-58.5	347.7	0.06953
181.00	4.33	0.02185	-59.4	348.4	0.03966
176.00	3.03	0.02192	-60.6	349.2	0.02856
172.00	1.76	0.02195	-61.8	349.5	0.01697
167.00	1.76	0.02199	-62.3	351.6	0.01747
162.70	6.20	0.02212	-63.1	353.0	0.06311
158.00	12.99	0.02242	-63.3	355.5	0.13624
153.50	21.02	0.02290	-63.6	358.0	0.22694
149.50	23.94	0.02340	-63.9	360.2	0.26534
145.80	26.58	0.02392	-64.4	361.9	0.30211
142.00	26.03	0.02446	-64.7	364.2	0.30374
138.00	21.07	0.02494	-64.9	366.7	0.25294
134.00	16.38	0.02532	-65.8	368.3	0.20258
131.40	18.21	0.02560	-66.9	368.3	0.22961
128.00	28.76	0.02620	-66.9	371.0	0.37231
125.00	43.53	0.02701	-65.8	375.7	0.57702
122.00	60.37	0.02817	-65.2	379.3	0.82001
118.00	69.35	0.02999	-64.9	383.4	0.97391
115.00	72.49	0.03147	-64.7	386.8	1.04454
112.30	64.63	0.03268	-64.1	390.4	0.95361
109.50	54.85	0.03377	-63.1	395.2	0.83006
106.80	35.49	0.03447	-63.1	398.1	0.55069
104.50	34.83	0.03507	-63.1	400.6	0.55225
101.80	48.71	0.03608	-63.3	403.1	0.79279
99.60	40.96	0.03679	-63.3	405.6	0.68140
97.40	38.65	0.03747	-64.1	406.6	0.65746
95.20	38.62	0.03816	-64.7	408.2	0.67227

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
93.10	38.17	0.03884	-64.9	410.3	0.67935
90.90	37.14	0.03954	-65.2	412.6	0.67699
89.00	35.47	0.04013	-65.5	414.5	0.66039
86.90	36.51	0.04082	-65.8	416.8	0.69612
85.00	38.70	0.04149	-66.1	418.8	0.75441
82.90	38.54	0.04225	-65.8	422.4	0.77026
81.20	39.51	0.04290	-65.2	426.1	0.80627
79.00	45.93	0.04390	-64.7	430.6	0.96342
77.50	51.05	0.04467	-64.7	433.0	1.09152
75.60	53.10	0.04571	-64.9	435.5	1.16389
73.80	57.59	0.04681	-65.5	437.3	1.29315
72.00	58.13	0.04794	-64.9	441.6	1.33774
70.40	64.67	0.04909	-64.4	445.6	1.52203
68.80	71.05	0.05038	-63.6	450.2	1.71112
67.20	76.54	0.05180	-62.8	455.0	1.88732
65.70	78.48	0.05320	-63.1	457.4	1.97926
64.20	80.41	0.05466	-63.3	459.8	2.07548
62.70	81.39	0.05618	-64.1	461.2	2.15086
61.20	82.24	0.05776	-64.1	464.4	2.22671
59.60	87.29	0.05958	-64.4	467.3	2.42694
58.30	94.71	0.06123	-64.7	469.6	2.69178
57.00	100.84	0.06303	-64.7	472.7	2.93151
55.60	112.41	0.06523	-64.4	476.7	3.35007
54.30	116.17	0.06740	-64.1	480.5	3.54485
53.20	125.99	0.06944	-63.9	484.0	3.92411
52.00	128.73	0.07176	-63.3	488.3	4.10195
50.70	142.05	0.07460	-62.5	493.7	4.64250
49.60	144.10	0.07709	-62.3	497.4	4.81399
48.40	144.62	0.07989	-62.3	500.9	4.95109
47.30	147.13	0.08256	-62.8	503.0	5.15417
46.20	149.15	0.08533	-62.5	507.0	5.34940
45.10	150.10	0.08819	-62.3	511.1	5.51477
44.00	151.21	0.09113	-62.3	514.7	5.69458
43.10	158.44	0.09372	-61.3	520.2	6.09116
42.10	165.68	0.09679	-60.6	525.5	6.52108
41.20	166.72	0.09963	-60.6	528.8	6.70517
40.40	168.36	0.10224	-60.3	532.4	6.90541
39.40	168.88	0.10558	-60.1	536.8	7.10246
38.40	169.92	0.10903	-59.9	541.3	7.33212
37.50	175.10	0.11231	-59.6	545.6	7.73694
36.60	176.71	0.11570	-59.4	550.0	8.00033
35.80	176.62	0.11878	-59.6	552.9	8.17464
34.90	175.58	0.12231	-59.9	556.3	8.33612
34.00	175.48	0.12593	-59.9	560.5	8.55211
33.30	173.78	0.12879	-59.9	563.8	8.64705
32.50	175.65	0.13216	-59.9	567.8	8.95560
31.75	178.07	0.13544	-59.9	571.6	9.29334
31.00	178.93	0.13882	-59.9	575.5	9.56420
30.40	177.36	0.14156	-60.1	578.1	9.66752
29.50	172.65	0.14565	-60.3	582.4	9.69741
28.80	169.09	0.14886	-60.3	586.4	9.72844
28.10	167.54	0.15211	-60.3	590.5	9.87961
27.50	166.94	0.15496	-59.4	596.8	10.05868
26.80	163.76	0.15829	-58.2	604.4	10.12486
26.10	160.16	0.16164	-57.8	610.3	10.16816

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA ASCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
25.40	159.65	0.16506	-57.6	615.7	10.41469
24.85	159.74	0.16783	-57.4	620.2	10.65140
24.20	159.30	0.17116	-57.1	625.5	10.90750
23.70	158.78	0.17378	-56.9	629.9	11.10146
23.10	156.21	0.17694	-56.7	635.2	11.20508
22.60	153.67	0.17959	-56.5	639.8	11.26670
22.10	148.60	0.18222	-56.1	645.2	11.14137
21.60	140.52	0.18476	-55.9	650.0	10.77955
21.00	132.93	0.18771	-55.4	656.5	10.48854
20.60	132.85	0.18973	-55.4	660.1	10.68644
20.15	131.57	0.19203	-55.9	663.1	10.81912
19.70	130.98	0.19436	-55.9	667.3	11.01687
19.10	129.80	0.19753	-55.9	673.3	11.26109
18.70	128.08	0.19967	-55.9	677.4	11.34942
18.30	126.67	0.20183	-55.4	682.9	11.46909
17.85	126.76	0.20433	-55.0	689.0	11.76660
17.40	121.42	0.20677	-53.8	697.9	11.56328
17.00	114.64	0.20888	-52.6	706.4	11.17423
16.60	115.54	0.21105	-52.1	713.1	11.53310
16.20	111.92	0.21321	-51.9	718.7	11.44736
15.90	109.15	0.21482	-51.9	722.5	11.37503
15.50	109.15	0.21701	-52.1	727.2	11.66858
15.20	109.15	0.21870	-52.4	730.0	11.89888
14.95	106.67	0.22009	-52.8	732.1	11.82341
14.60	103.89	0.22204	-53.0	736.5	11.79042
14.30	101.95	0.22371	-53.2	740.2	11.81298
14.00	99.22	0.22537	-53.4	744.0	11.74355
13.70	95.43	0.22700	-54.0	746.6	11.54222
13.40	94.38	0.22865	-54.4	750.0	11.67020
13.10	97.77	0.23040	-54.6	754.1	12.36692
12.90	104.21	0.23167	-54.8	756.7	13.38598
12.57	109.25	0.23390	-54.0	765.2	14.40096
12.30	107.20	0.23574	-53.4	772.1	14.44201
12.10	102.43	0.23706	-53.4	775.7	14.02721
11.90	101.41	0.23840	-53.4	779.4	14.12034
11.67	99.47	0.23993	-53.0	785.1	14.12332
11.45	95.70	0.24137	-52.1	792.9	13.84862
11.28	94.64	0.24249	-51.5	798.3	13.90197
11.10	94.95	0.24369	-51.3	802.7	14.17431
10.95	94.42	0.24471	-50.9	807.2	14.28820
10.80	91.77	0.24571	-50.4	812.4	14.07967
10.66	89.82	0.24663	-49.8	817.4	13.96167
10.50	89.23	0.24770	-49.6	821.6	14.08083
10.40	89.47	0.24837	-49.5	824.5	14.25528
10.30	85.94	0.24903	-49.3	827.5	13.82570
10.20	82.07	0.24966	-49.1	830.4	13.33168
10.10	79.27	0.25028	-48.9	833.4	13.00467
10.05	79.48	0.25059	-48.8	835.3	13.10500
10.00	77.90	0.25090	-48.4	837.8	12.90723
9.95	76.03	0.25120	-48.2	839.6	12.66175

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
662.20					
661.00	34.41	0.00005	-1.5	305.8	0.08625
655.00	33.02	0.00029	-2.0	306.0	0.08353
649.00	31.57	0.00052	-2.7	306.0	0.08060
643.00	28.04	0.00072	-3.0	306.5	0.07227
637.00	26.53	0.00092	-3.4	306.9	0.06902
631.70	25.08	0.00108	-3.9	307.0	0.06578
626.00	24.60	0.00126	-4.4	307.2	0.06512
619.60	24.59	0.00146	-4.6	307.9	0.06576
613.00	23.74	0.00166	-5.0	308.4	0.06418
607.00	23.73	0.00184	-5.4	308.8	0.06478
600.00	23.73	0.00206	-5.9	309.3	0.06554
596.00	23.22	0.00218	-6.4	309.2	0.06455
589.00	23.28	0.00240	-6.8	309.8	0.06550
583.00	23.27	0.00259	-7.2	310.3	0.06614
577.00	22.77	0.00278	-7.8	310.4	0.06539
571.80	23.27	0.00294	-8.2	310.8	0.06743
566.00	22.83	0.00313	-8.6	311.2	0.06684
559.60	21.82	0.00332	-9.3	311.5	0.06460
553.00	21.30	0.00352	-9.8	311.9	0.06383
547.00	20.86	0.00370	-10.4	312.2	0.06318
541.00	19.91	0.00387	-11.1	312.4	0.06098
535.30	19.10	0.00403	-11.7	312.6	0.05911
530.00	17.99	0.00418	-12.5	312.5	0.05625
524.30	17.49	0.00432	-13.2	312.6	0.05528
519.00	17.00	0.00446	-14.0	312.6	0.05427
514.00	17.40	0.00459	-14.6	312.7	0.05609
509.00	16.82	0.00472	-15.5	312.5	0.05477
503.00	16.82	0.00488	-16.3	312.6	0.05540
497.00	17.35	0.00505	-17.0	312.8	0.05785
491.50	16.25	0.00519	-17.5	313.1	0.05477
486.00	14.55	0.00532	-18.2	313.4	0.04960
480.30	15.56	0.00546	-18.5	314.0	0.05370
475.00	15.56	0.00560	-19.3	314.0	0.05427
469.20	16.01	0.00575	-19.8	314.5	0.05654
464.00	15.52	0.00589	-20.4	314.7	0.05541
458.40	14.96	0.00603	-20.9	315.2	0.05408
453.00	15.44	0.00618	-21.3	315.8	0.05648
448.00	15.97	0.00632	-22.1	315.8	0.05906
442.00	16.50	0.00649	-22.6	316.4	0.06184
437.00	15.42	0.00663	-23.4	316.4	0.05846
432.00	15.94	0.00678	-24.0	316.7	0.06112
426.50	15.98	0.00694	-24.7	317.0	0.06208
421.00	15.98	0.00710	-25.0	317.7	0.06289
415.60	14.37	0.00725	-25.3	318.5	0.05730
410.00	14.22	0.00740	-25.8	319.1	0.05746
405.00	13.76	0.00754	-26.2	319.7	0.05632
400.00	13.76	0.00767	-26.6	320.4	0.05702
395.00	13.26	0.00780	-27.2	320.7	0.05564
390.00	12.81	0.00793	-27.8	321.1	0.05441
385.00	12.85	0.00806	-28.4	321.5	0.05529
380.00	12.34	0.00819	-29.0	322.0	0.05382
375.00	11.89	0.00831	-29.8	322.1	0.05253
370.00	11.39	0.00843	-30.3	322.7	0.05100
365.00	11.60	0.00856	-31.0	323.0	0.05268
360.00	11.88	0.00869	-31.6	323.4	0.05469

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
355.00	11.92	0.00882	-32.7	323.2	0.05563
350.00	12.37	0.00896	-33.5	323.4	0.05855
345.50	12.41	0.00908	-34.2	323.7	0.05950
341.00	12.41	0.00921	-35.1	323.8	0.06029
336.40	12.40	0.00935	-35.9	323.9	0.06108
332.00	12.36	0.00947	-36.8	323.9	0.06166
327.00	12.36	0.00962	-37.5	324.3	0.06261
322.50	11.85	0.00975	-38.4	324.4	0.06089
318.00	11.40	0.00988	-39.3	324.5	0.05938
313.00	11.40	0.01002	-40.2	324.7	0.06033
308.80	10.90	0.01014	-41.1	324.7	0.05850
304.00	10.90	0.01027	-42.1	324.6	0.05942
300.00	12.41	0.01040	-42.8	325.0	0.06853
296.00	11.46	0.01052	-43.4	325.3	0.06413
291.50	9.95	0.01064	-44.2	325.6	0.05656
287.00	10.50	0.01077	-44.9	326.1	0.06060
282.70	11.05	0.01090	-45.7	326.4	0.06475
278.00	12.10	0.01106	-46.7	326.5	0.07214
274.30	12.62	0.01120	-47.7	326.3	0.07625
270.00	13.14	0.01136	-48.6	326.5	0.08062
266.20	13.64	0.01151	-49.6	326.2	0.08489
262.00	14.20	0.01169	-50.6	326.4	0.08983
258.20	13.23	0.01185	-51.5	326.4	0.08493
254.00	13.14	0.01202	-52.1	327.1	0.08570
250.00	13.64	0.01219	-53.0	327.1	0.09043
246.00	13.23	0.01236	-53.8	327.5	0.08914
242.00	12.68	0.01252	-54.6	327.8	0.08679
238.00	10.13	0.01265	-55.4	328.1	0.07052
234.00	11.15	0.01280	-56.1	328.7	0.07894
230.00	12.73	0.01298	-57.1	328.7	0.09171
226.40	13.24	0.01314	-57.8	329.2	0.09691
223.00	12.22	0.01329	-58.7	329.3	0.09083
219.40	12.78	0.01345	-59.6	329.4	0.09654
216.00	15.06	0.01364	-59.2	331.6	0.11555
212.50	15.63	0.01384	-58.2	334.5	0.12185
209.00	15.69	0.01404	-57.6	337.2	0.12439
205.50	14.40	0.01424	-57.6	338.8	0.11609
202.00	13.93	0.01442	-57.6	340.5	0.11429
198.50	13.47	0.01461	-57.6	342.2	0.11247
195.00	12.44	0.01479	-57.6	343.9	0.10572
191.40	9.84	0.01493	-57.8	345.4	0.08522
188.00	8.29	0.01505	-58.2	346.5	0.07307
184.50	5.86	0.01513	-59.2	346.8	0.05259
181.00	5.86	0.01522	-59.6	348.0	0.05364
177.40	5.86	0.01532	-60.1	349.2	0.05473
174.00	7.26	0.01543	-60.6	350.4	0.06916
171.00	9.86	0.01556	-61.1	351.3	0.09559
168.00	11.95	0.01573	-61.5	352.3	0.11783
164.60	12.00	0.01592	-62.0	353.5	0.12078
161.50	9.39	0.01606	-62.5	354.6	0.09635
158.20	11.91	0.01626	-63.1	355.8	0.12478
155.00	13.99	0.01648	-63.9	356.5	0.14957
152.30	17.52	0.01673	-64.1	357.9	0.19065
149.30	18.72	0.01702	-64.7	359.0	0.20778
146.60	24.61	0.01738	-64.9	360.4	0.27814

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
144.00	31.29	0.01782	-64.9	362.2	0.36000
141.00	35.04	0.01840	-65.2	363.9	0.41174
138.00	32.18	0.01895	-65.5	365.7	0.38642
135.60	32.68	0.01940	-65.8	367.0	0.39931
133.00	39.89	0.02001	-66.1	368.6	0.49695
130.40	66.22	0.02104	-65.8	371.2	0.84149
128.00	92.51	0.02240	-65.2	374.1	1.19754
125.50	95.39	0.02388	-64.9	376.8	1.25939
123.00	105.39	0.02556	-64.7	379.4	1.41971
120.40	98.37	0.02722	-64.4	382.2	1.35376
118.00	87.41	0.02861	-64.1	384.9	1.22751
115.50	75.19	0.02988	-63.3	388.8	1.07868
113.00	60.09	0.03092	-63.1	391.7	0.88110
110.50	46.97	0.03175	-62.5	395.2	0.70434
108.00	47.48	0.03260	-63.1	396.8	0.72841
105.70	55.98	0.03355	-63.3	398.8	0.87759
103.00	53.88	0.03466	-63.9	400.7	0.86680
100.70	53.04	0.03560	-64.1	402.8	0.87274
98.00	52.54	0.03673	-64.4	405.4	0.88835
95.80	49.54	0.03762	-64.7	407.5	0.85695
93.50	49.04	0.03856	-64.9	409.8	0.86911
91.30	48.36	0.03947	-64.9	412.6	0.87768
89.00	52.25	0.04052	-65.2	415.1	0.97271
87.00	55.42	0.04151	-65.5	417.2	1.05560
84.70	56.48	0.04271	-65.8	419.8	1.10499
82.80	62.84	0.04383	-66.1	422.0	1.25763
80.80	68.59	0.04516	-66.1	425.0	1.40660
78.60	75.89	0.04681	-64.9	430.6	1.59983
76.20	78.47	0.04873	-64.4	435.6	1.70629
74.20	82.74	0.05047	-64.1	439.5	1.84770
72.30	94.04	0.05240	-63.6	443.9	2.15524
70.30	104.19	0.05471	-63.3	448.0	2.45570
68.40	112.21	0.05713	-63.1	452.1	2.71819
66.60	106.61	0.05938	-63.1	455.6	2.65257
64.90	106.18	0.06154	-63.6	457.8	2.71094
63.00	112.27	0.06418	-63.9	461.1	2.95277
61.20	112.73	0.06676	-63.3	466.1	3.05218
59.20	117.57	0.06984	-63.1	471.2	3.29090
57.50	123.24	0.07268	-62.8	475.7	3.55137
55.80	131.05	0.07578	-62.5	480.4	3.89144
54.10	140.45	0.07921	-62.3	485.2	4.30188
52.50	149.94	0.08277	-62.0	490.0	4.73225
50.90	158.42	0.08664	-61.8	494.9	5.15713
49.30	165.88	0.09082	-61.5	500.1	5.57527
47.70	169.36	0.09523	-61.3	505.4	5.88324
46.20	168.39	0.09948	-60.8	511.2	6.03941
44.80	170.86	0.10363	-60.6	516.3	6.31958
43.30	173.33	0.10829	-60.1	522.5	6.63311
41.70	175.26	0.11350	-59.9	528.7	6.96398
40.30	178.71	0.11832	-59.9	533.9	7.34776
38.70	180.11	0.12408	-59.6	540.7	7.71178
37.10	183.65	0.13021	-59.4	547.9	8.20241
35.70	182.18	0.13574	-59.4	553.9	8.45563
34.20	184.14	0.14198	-59.6	560.2	8.92175
32.80	183.67	0.14804	-59.9	566.3	9.27861

Table 39 (continued)

WASHINGTON,D.C. 12/1/70 1604Z OZONE DATA DESCENT

PRESS MBAR	OZONE MICMB	TOTOZ ATMCM	TEMP DEG C	POT T DEG K	MIXRT MICGG
31.30	177.79	0.15461	-59.6	574.5	9.41186
29.90	173.28	0.16087	-59.4	582.7	9.60283
28.40	171.31	0.16783	-59.2	592.0	9.99525
27.10	165.80	0.17397	-58.5	601.9	10.13775
25.90	161.38	0.17974	-58.2	610.4	10.32454
24.80	156.35	0.18510	-58.0	618.6	10.44665
23.80	151.87	0.19003	-57.8	626.6	10.57340
22.80	147.28	0.19502	-57.6	635.0	10.70371
21.90	141.80	0.19953	-57.1	643.6	10.72869
21.00	136.88	0.20407	-56.9	652.1	10.80055
20.20	136.38	0.20825	-57.1	658.7	11.18754
19.50	134.75	0.21200	-57.4	664.7	11.44993
18.80	130.15	0.21576	-56.9	673.0	11.47117
18.10	127.79	0.21959-	-55.6	684.4	11.69875
17.55	122.31	0.22257	-55.2	691.7	11.54808
17.00	112.96	0.22541	-55.4	697.4	11.01034
16.44	114.90	0.22844	-55.4	704.1	11.58110
15.90	111.74	0.23139	-55.4	710.8	11.64535
15.40	111.74	0.23421	-55.4	717.4	12.02345
14.90	115.78	0.23723	-55.4	724.2	12.87592
14.50	116.19	0.23972	-55.4	729.8	13.27746
14.10	117.61	0.24232	-55.4	735.7	13.82128
13.70	115.48	0.24495	-55.4	741.7	13.96677
13.30	122.65	0.24781	-55.2	748.8	15.28034
12.95	124.12	0.25043	-55.0	755.2	15.88101
12.60	122.65	0.25308	-54.8	761.9	16.12925
12.30	116.90	0.25531	-54.0	770.0	15.74810
12.00	115.53	0.25756	-53.8	776.1	15.95242
11.68	111.34	0.25993	-53.6	782.8	15.79582
11.40	107.50	0.26199	-53.4	789.0	15.62574
11.20	104.15	0.26345	-53.0	794.4	15.40793
11.00	102.14	0.26490	-52.3	801.3	15.38536
10.80	98.72	0.26633	-52.1	806.2	15.14572
10.60	94.25	0.26772	-51.9	811.2	14.73383
10.44	89.67	0.26880	-51.3	816.9	14.23219
10.30	87.05	0.26973	-54.8	807.0	14.00382
10.20	85.32	0.27039	-55.0	808.5	13.86011
10.10	82.02	0.27102	-50.4	828.1	13.45647
10.00	79.64	0.27165	-49.6	833.1	13.19558
9.97	76.30	0.27183	-49.1	835.9	12.68102
9.95	74.84	0.27195	-48.2	839.6	12.46276

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13. ABSTRACT

Concurrent measurements of the vertical distribution of water vapor and ozone in the atmosphere have been obtained at approximately one-month intervals at a site near Washington, D. C. Data for 19 soundings during the period 1969 and 1970 are presented in tables and graphs.

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14. KEY WORDS	LINK A ROLE	LINK A WT	LINK B ROLE	LINK B WT	LINK C ROLE	LINK C WT
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Atmospheric constituents						
Atmospheric circulation						
Water vapor measurements						
Ozone distribution						