

Vertical Distribution of Water Vapor Over Washington, D.C., During 1966 and 1967

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Washington, D.C.**

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ABSTRACT

The vertical distribution of water vapor to stratospheric levels has been measured at monthly intervals over Washington, D.C., during 1966 and 1967. The data for 23 soundings are individually presented in graphs and tables.

PROBLEM STATUS

This is a final report on one phase of the problem; work on the overall problem is continuing.

AUTHORIZATION

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

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VERTICAL DISTRIBUTION OF WATER VAPOR OVER WASHINGTON, D.C., DURING 1966 AND 1967

INTRODUCTION

A balloon-borne frost-point hygrometer is being used to obtain a sequence of measurements over a period of years of the vertical distribution of water vapor to stratospheric levels over Washington, D.C. Soundings are being made at approximately 1-month intervals from a site near Washington at 38.6°N and 77.0°W . Distributions are reported here for the years 1966 and 1967; the date and time of the individual soundings are given in Table 1. Distributions for 1964 and 1965 have been reported previously (1).

Table 1
Date and Time of Water Vapor Soundings
over Washington, D.C.

1966	Time (GMT)	1967	Time (GMT)
Jan. 21	1555	Jan. 12	1540
Feb. 23	1628	Feb. 13	1600
Mar. 17	1600	Mar. 10	1650
Apr. 21	1646	Apr. 12	1940
May 5	1530	May 18	1920
May 23	1545	July 5	1550
June 6	1615	Aug. 15	1617
June 24	1525	Sept. 7	1545
July 21	1607	Oct. 3	1520
Aug. 6	1450	Nov. 29	1610
Sept. 30	1630	Dec. 19	1700
Dec. 12	1620		

INSTRUMENTATION

The instrumentation consists of an automatic dewpoint and frost-point hygrometer (2), an instrument for measuring the temperature at which the atmospheric water vapor is in pressure equilibrium with water or ice. Particular attention has been given to measurements at stratospheric and high tropospheric levels, where atmospheric temperatures are well below freezing; the instrument is therefore referred to here as a frost-point hygrometer and the measurements as frost points, but it should be understood that equilibrium temperatures above 0°C are treated as dewpoints.

Frost-point temperatures are readily converted to vapor pressures, and hence concentrations, using the known relation between temperature and saturation vapor pressure as formulated by Goff and Gratch (3) and adopted by the Twelfth Conference of Directors of the International Meteorological Organization (1947).

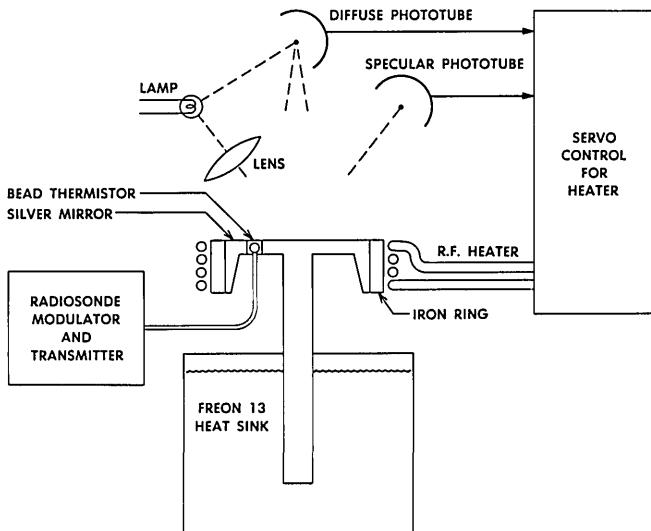


Fig. 1 - Frost-point hygrometer

The frost-point hygrometer is shown schematically in Fig. 1. The instrument has an optical-electronic-thermal servo loop to continuously control a mirror at the frost-point temperature. The specular phototube receives light specularly reflected by the mirror, and the diffuse phototube receives light scattered from the mirror and directly from the lamp. The amount and optical characteristics of the condensate on the mirror determine the relative proportion of light which reaches the two phototubes. The phototubes are connected in a bridge arrangement which determines the output of an rf oscillator to an rf heating coil surrounding the mirror. This induction heating, balanced against the heat sink of Freon 13, controls the size of the condensate spot on the mirror. The temperature of the mirror is measured by the bead thermistor embedded in the mirror surface to give the frost-point temperature. A conventional radiosonde transmitter is used to telemeter the frost-point temperature, the air temperature, and an audio reference signal to a ground-based receiver. A modification of the radiosonde baroswitch programmer provides a 70% allocation of observation time to the measurement of the frost-point temperature.

A major problem in the measurement of water vapor at stratospheric levels from sounding balloons is the water vapor contamination from the equipment and balloon system (4). A number of steps have been taken to minimize the level of contamination in the sampled air. A stainless-steel cavity isolates the sensor from the rest of the instrumentation and provides a sample inlet at a position below the instrument package. Stratospheric data collection during a balloon descent, with the instrument package at the bottom of the flight train, provides sampling ahead of the contaminated wash of the flight train. Dilution of the contaminant emanating from the walls of the cavity by means of a high volume flow provides the final control.

DATA COLLECTION

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

Since the instrumentation and flight configuration are designed to provide clean air sampling during a balloon descent, the stratospheric sounding is considered to commence following balloon turn-around, and the descent sounding data are used for the determination of stratospheric water vapor.

DATA PROCESSING

Prior to data extraction, the recorder record is processed to provide a smoothed curve of frost-point temperature. 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°C 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. Frost-point temperature, ambient temperature, and pressure are then extracted at 1/2-min intervals.

The vertical distribution of frost-point temperatures is then obtained for the stratosphere using the descent sounding data exclusively and for the troposphere using descent data where available and ascent data to complete the tropospheric distribution. However, in those cases where the frost-point temperatures for the lowest descent levels were not in substantial agreement with the ascent temperatures, the two distributions were not joined; the upper portion of the ascent distribution, considered subject to significant contamination error, was not included in the composite distribution.

The frost-point temperatures and ambient temperatures are graphically presented on the pages immediately following the text as distributions of temperatures versus 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.

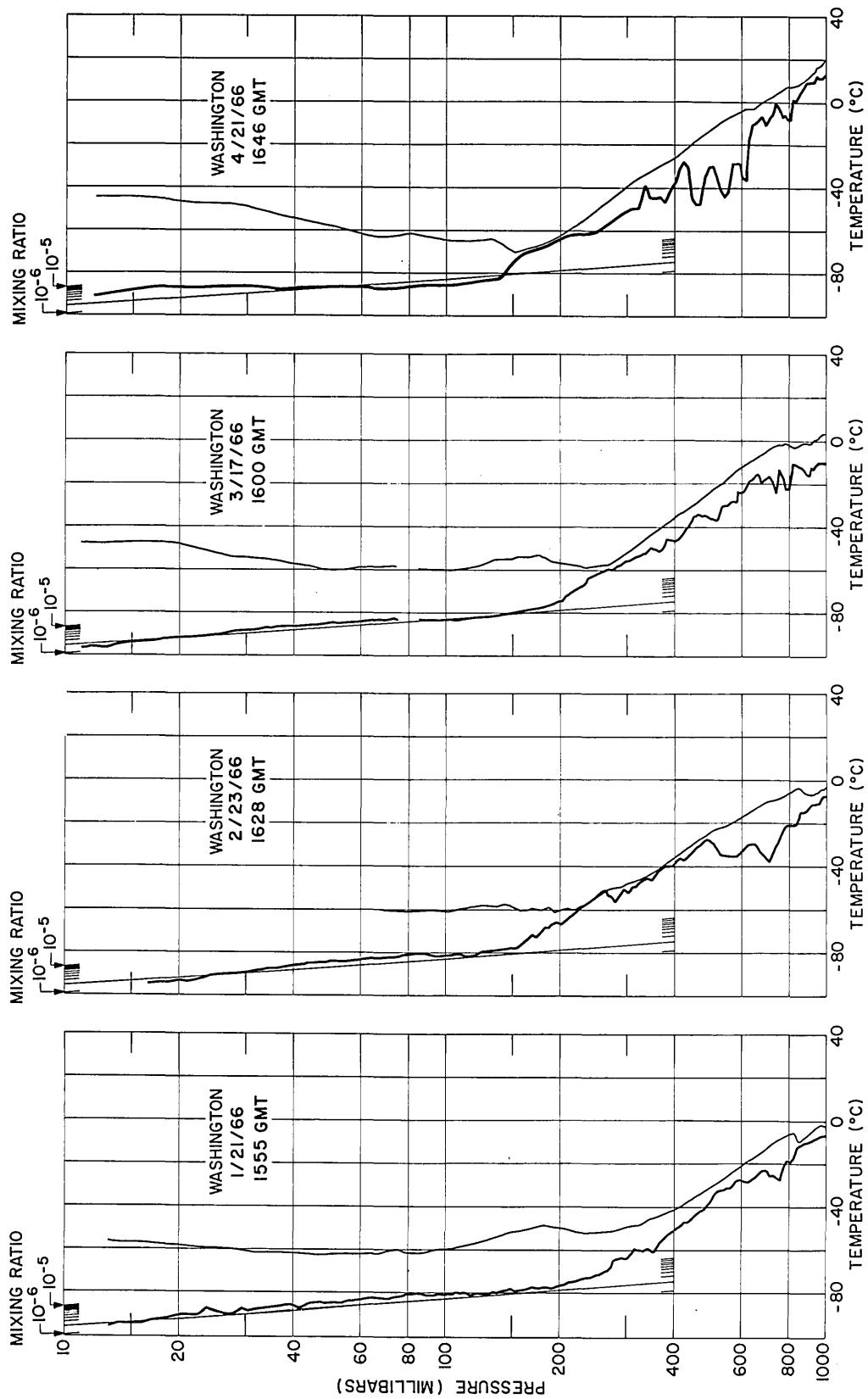
Data tabulations appear on the pages following the graphs. Values of pressure (P), ambient temperature (T), frost-point temperature (F), mixing ratio (w), and potential temperature (θ) appear for datum levels. The water vapor content between successive levels (M) is computed for the average concentration and expressed as centimeters of water at standard temperature and pressure. The lowest datum level is not the surface level; the concentration of the surface level is not given. Cumulative water vapor content (ΣM) is tabulated starting at the lowest datum level.

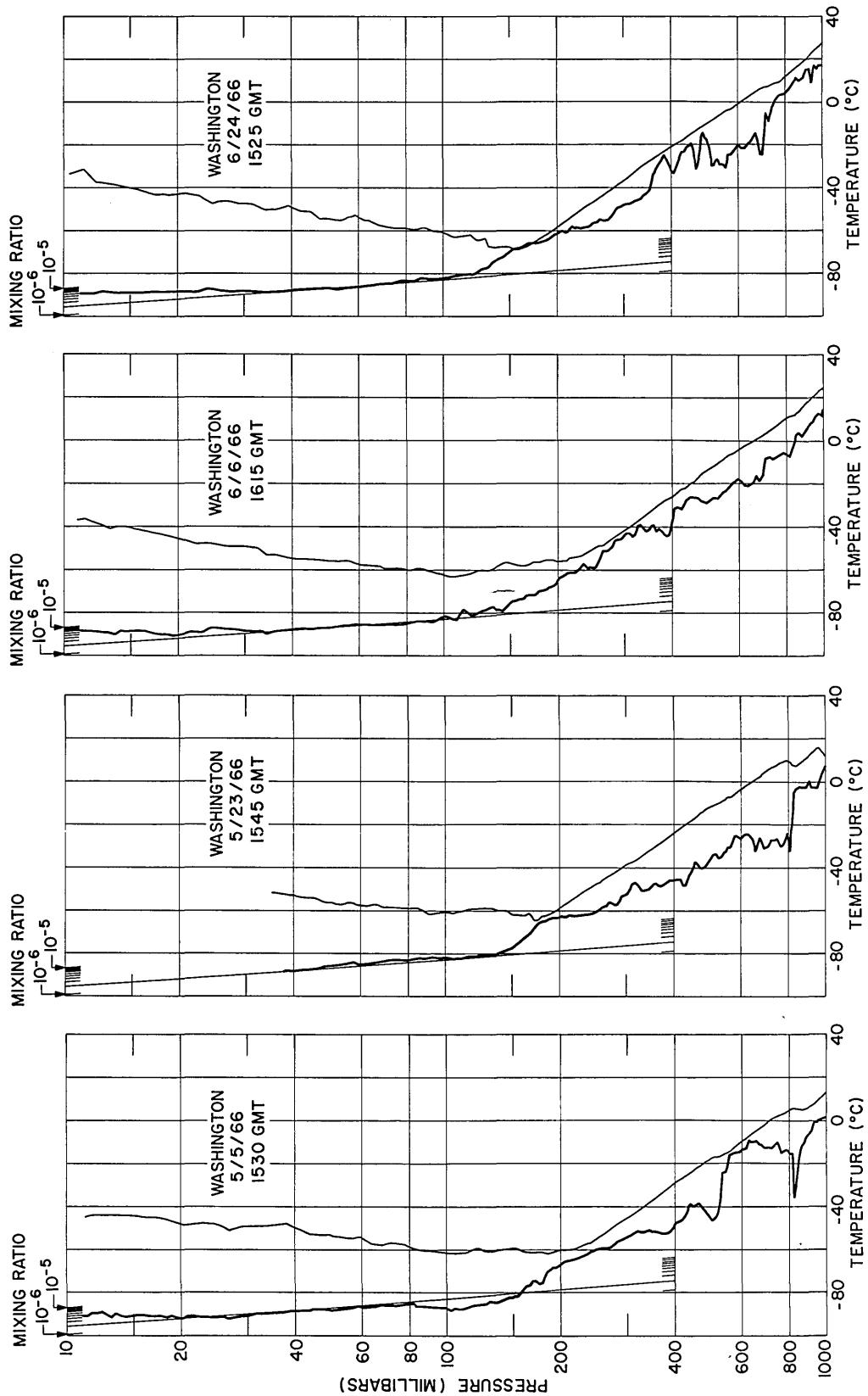
ACKNOWLEDGMENTS

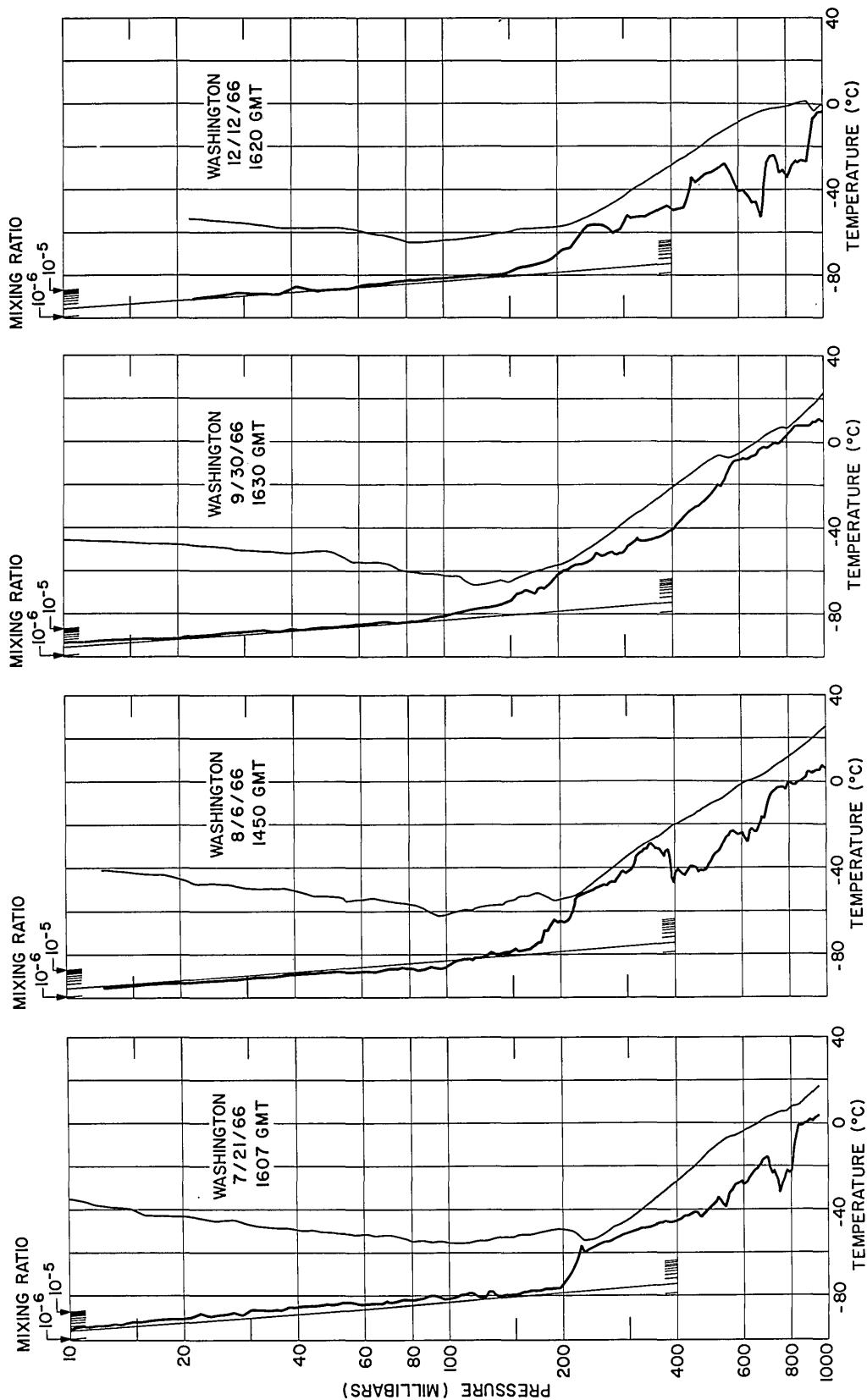
The development of instrumentation was made possible through the support of the Naval Air Systems Command. Instrument preparation and field operations were ably conducted by Mr. W.W. Werner and Mr. R.E. Daniels.

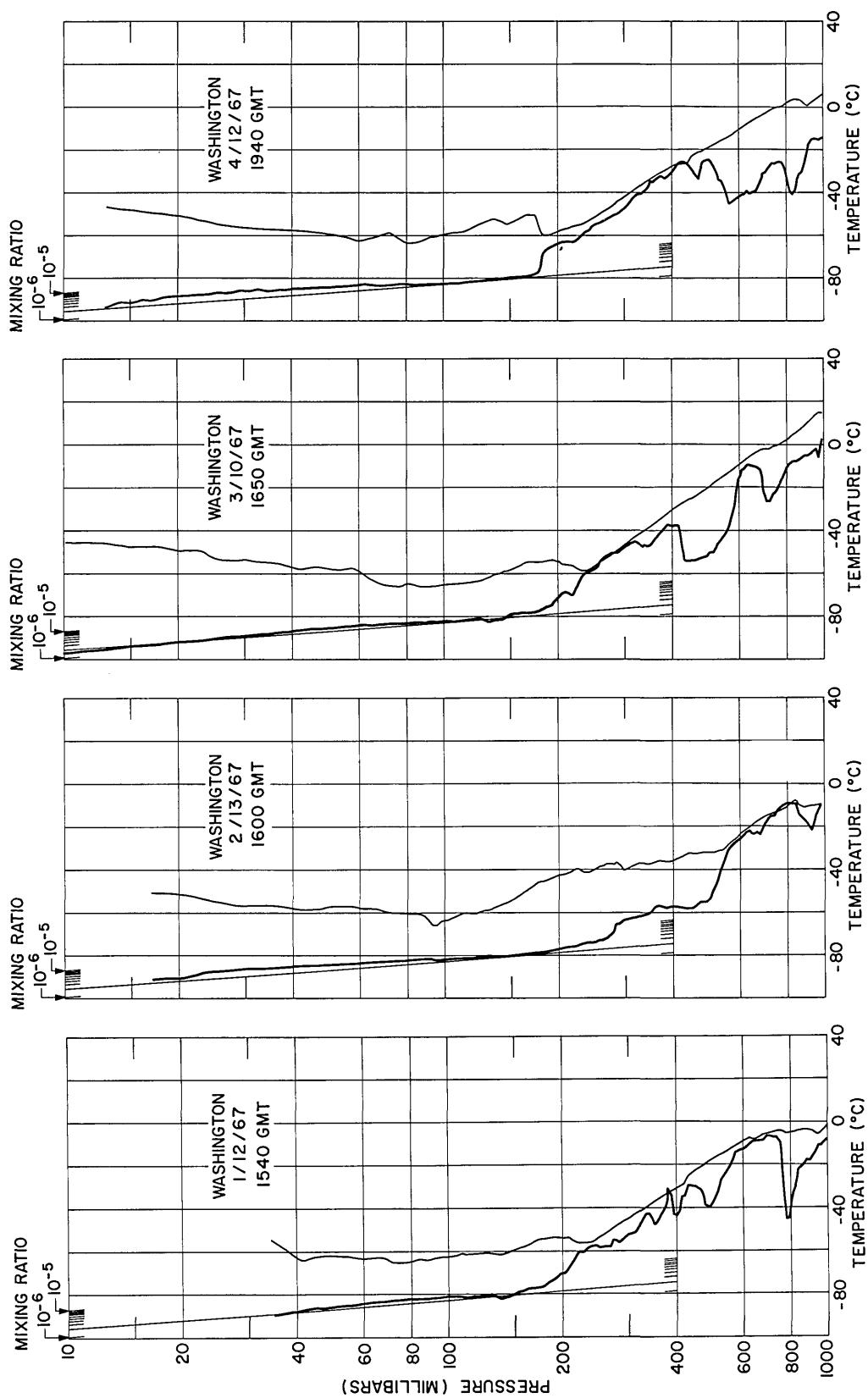
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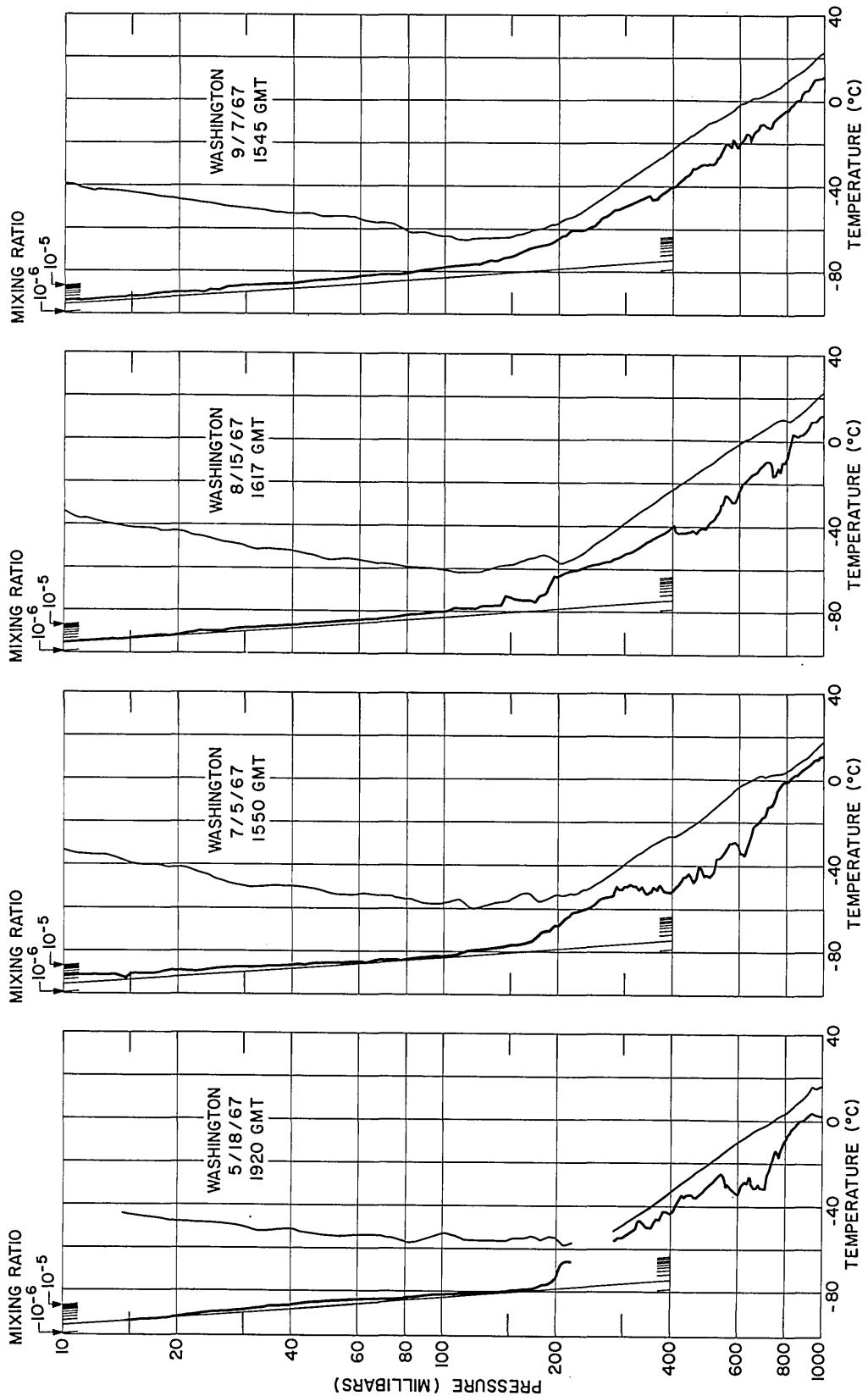
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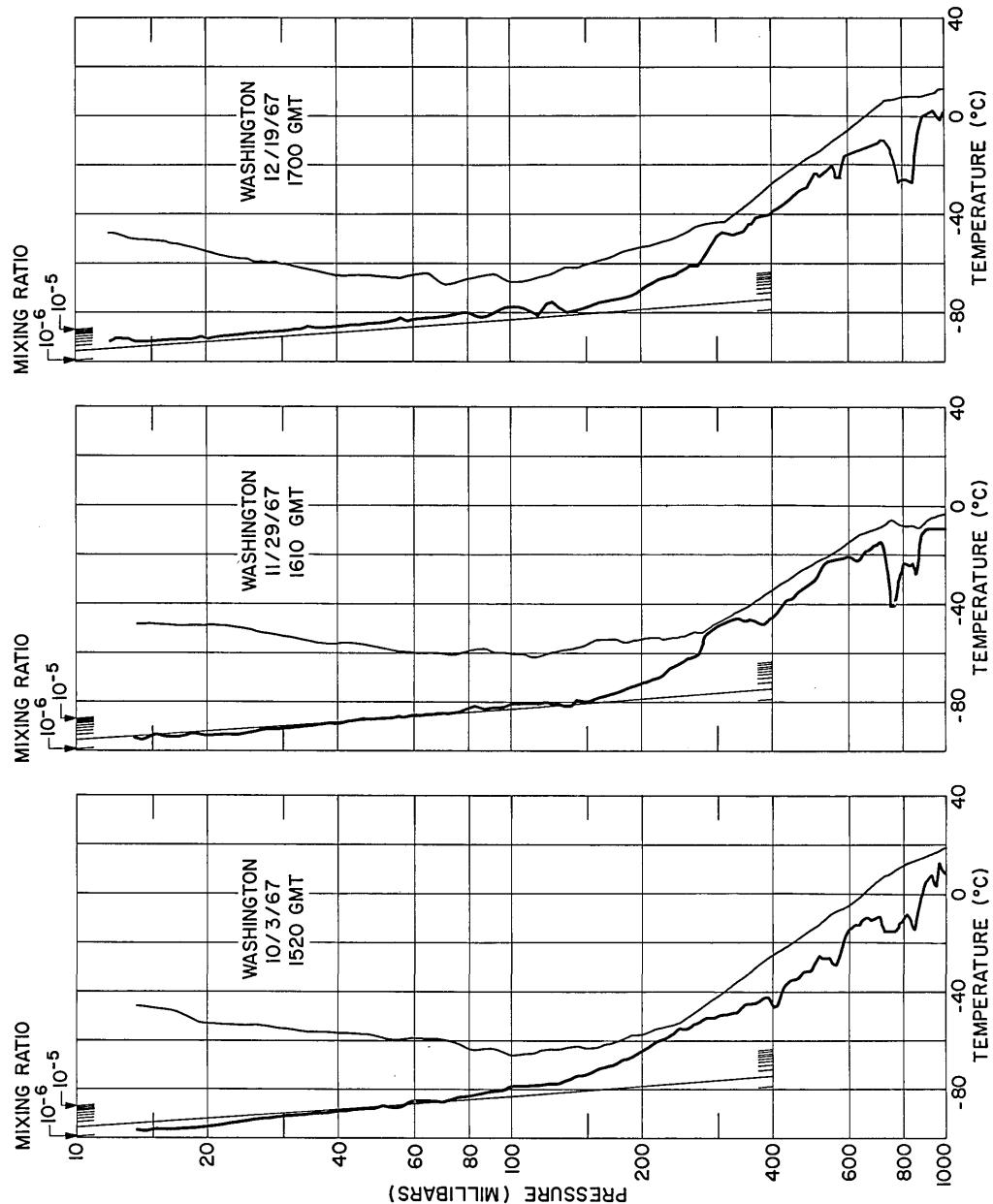












WASHINGTON,D.C.	1/21/66	1555Z					
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1022.50	-1.5	-6.2	2.20760	270.0	.06280696	.06280696	
995.00	-2.0	-6.2	2.26884	271.5	.05747327	.12028024	
970.00	-1.6	-6.7	2.23708	273.9	.03995676	.16023700	
952.00	-2.8	-7.5	2.11378	274.2	.03568126	.19591826	
935.00	-3.2	-8.4	2.00007	275.2	.03234322	.22826149	
919.00	-4.2	-8.8	1.96199	275.6	.03176226	.26002374	
903.00	-5.5	-9.2	1.92891	275.6	.03516263	.29518637	
885.00	-6.9	-9.6	1.89993	275.7	.02976944	.32495581	
869.00	-8.3	-10.7	1.74684	275.7	.02654187	.35149768	
854.00	-9.5	-11.1	1.72131	275.8	.02574216	.37723984	
839.00	-8.2	-11.8	1.64234	278.6	.02059637	.39783621	
824.00	-5.1	-16.9	1.04893	283.3	.01585662	.41369283	
808.00	-5.7	-18.8	.89352	284.2	.01532218	.42901501	
792.00	-6.3	-18.0	.98346	285.3	.01585396	.44486897	
775.00	-7.0	-19.8	.84442	286.2	.01000980	.45487876	
759.50	-8.1	-27.1	.42134	286.8	.00654346	.46142222	
745.00	-8.6	-26.3	.46316	287.8	.00759171	.46901393	
730.04	-9.8	-25.1	.53148	288.2	.00870800	.47772193	
714.00	-10.9	-25.3	.53259	288.8	.00964926	.48737119	
699.00	-12.3	-22.4	.72825	289.0	.01126899	.49864018	
684.00	-13.4	-22.4	.74424	289.5	.01081526	.50945544	
669.00	-14.5	-23.7	.66896	290.2	.00723220	.51902527	
654.00	-15.7	-25.3	.58150	290.6	.00733829	.52625747	
641.00	-17.0	-26.9	.50890	290.9	.00270915	.53359576	
626.00	-17.9	-28.3	.44998	291.9	.00253329	.54083191	
611.00	-19.3	-27.6	.49555	292.3	.002050733	.54889117	
596.00	-20.9	-26.7	.55753	292.5	.00220641	.55673921	
581.00	-22.0	-28.6	.46795	293.3	.00617762	.56291683	
567.00	-23.2	-30.5	.39692	294.0	.00122875	.56414558	
564.00	-23.6	-30.3	.40587	294.0	.00307472	.56722030	
556.50	-24.5	-30.6	.39767	294.0	.00220641	.56942672	
551.00	-25.1	-30.9	.38863	294.1	.00290015	.57232687	
543.50	-26.0	-31.6	.36928	294.2	.00270915	.57503602	
536.30	-26.5	-31.7	.36821	294.7	.00253329	.57756931	
529.60	-27.3	-31.7	.37287	294.8	.002050733	.58007663	
523.00	-28.1	-31.9	.37174	294.9	.00244153	.58251816	
516.50	-28.9	-32.2	.36448	295.0	.00226855	.58478671	
510.20	-29.4	-32.9	.34129	295.4	.00216131	.58694802	
503.30	-29.9	-35.1	.27265	295.9	.00163606	.58858408	
497.00	-30.6	-36.5	.23635	296.2	.00141601	.59000009	
490.50	-31.3	-38.6	.19064	296.5	.00113335	.59113345	
484.30	-31.7	-39.9	.16765	297.1	.00096208	.59209552	
478.50	-32.2	-40.5	.15747	297.4	.00088887	.59298439	
473.00	-32.9	-40.5	.15930	297.6	.00085200	.59383640	
467.50	-33.6	-41.5	.14433	297.7	.00075769	.59459409	
462.20	-34.3	-42.1	.13588	297.8	.00076780	.59536189	
456.50	-34.8	-42.7	.12814	298.2	.00077125	.59613314	
450.20	-35.5	-44.0	.11181	298.5	.00048821	.59890065	
444.20	-36.1	-45.4	.09580	298.9	.00037587	.59930459	
438.50	-36.8	-46.5	.08515	299.2	.00039960	.59970419	
432.50	-37.2	-46.4	.08728	299.8	.00040394	.60008006	
426.00	-37.8	-46.3	.09054	300.4	.00044821		
420.30	-38.5	-47.7	.07733	300.6	.00052783		
415.00	-39.2	-48.4	.07205	300.7	.00058971		
409.60	-39.8	-48.4	.07300	301.1	.00048821		
404.30	-40.4	-49.3	.06600	301.4	.00037587		

WASHINGTON,D.C.		1/21/66	1555Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
398.80	-41.2	-50.5	.05746	301.6	.00034645	.60042651	
393.20	-41.5	-51.5	.05171	302.5	.00031191	.60073842	
388.20	-42.0	-52.4	.04654	303.0	.00025061	.60098903	
383.60	-42.6	-53.0	.04397	303.2	.00021240	.60120143	
378.00	-42.9	-54.0	.03936	304.1	.00023806	.60143949	
372.50	-43.4	-55.0	.03491	304.7	.00020841	.60164790	
367.30	-43.7	-55.7	.03220	305.5	.00017804	.60182594	
362.00	-44.3	-58.2	.02372	305.9	.00015119	.60197712	
357.00	-44.5	-60.3	.01814	306.9	.00010677	.60208389	
351.70	-44.8	-60.4	.01807	307.8	.00009790	.60218179	
346.70	-45.3	-59.9	.01958	308.4	.00009602	.60227782	
341.60	-45.9	-59.7	.02044	308.8	.00010410	.60238191	
336.60	-46.8	-59.9	.02016	309.0	.00010356	.60248548	
331.60	-47.5	-60.1	.02009	309.4	.00010267	.60258815	
326.60	-47.8	-59.9	.02097	310.3	.00010474	.60269289	
322.00	-48.0	-59.6	.02188	311.3	.00010057	.60279346	
317.30	-48.1	-59.1	.02394	312.4	.00010987	.60290332	
313.30	-48.3	-60.6	.01990	313.2	.00008947	.60299279	
308.80	-48.5	-62.1	.01642	314.3	.00008337	.60307616	
304.20	-48.7	-63.2	.01419	315.4	.00007182	.60314798	
300.00	-49.2	-63.8	.01321	315.9	.00005871	.60320669	
295.70	-49.6	-63.4	.01419	316.7	.00006010	.60326679	
291.10	-49.7	-63.6	.01401	317.9	.00006616	.60333295	
286.50	-50.1	-63.6	.01437	318.8	.00006658	.60339953	
281.90	-50.5	-64.0	.01379	319.8	.00006607	.60346560	
277.30	-51.2	-64.7	.01274	320.2	.00006226	.60352786	
273.00	-51.2	-68.6	.00732	321.6	.00004399	.60357185	
268.80	-51.2	-69.2	.00685	323.1	.00003035	.60360220	
265.00	-51.4	-69.5	.00660	324.1	.00002608	.60362828	
259.30	-51.4	-70.5	.00583	326.1	.00003615	.60366443	
254.30	-51.4	-71.2	.00535	328.0	.00002851	.60369293	
249.70	-51.2	-71.7	.00505	329.9	.00002441	.60371734	
245.40	-51.4	-72.6	.00451	331.3	.00002098	.60373832	
241.20	-51.6	-72.6	.00454	332.7	.00001939	.60375771	
237.20	-51.7	-72.7	.00457	334.0	.00001857	.60377628	
233.10	-51.9	-73.1	.00434	335.4	.00001863	.60379490	
229.10	-51.9	-73.6	.00413	337.0	.00001729	.60381219	
225.20	-51.7	-74.1	.00388	339.0	.00001593	.60382812	
221.40	-51.6	-74.5	.00372	340.9	.00001474	.60384285	
217.70	-51.4	-74.8	.00357	342.9	.00001377	.60385662	
213.70	-50.8	-74.6	.00377	345.5	.00001498	.60387160	
210.00	-50.5	-75.6	.00329	347.8	.00001331	.60388491	
206.10	-49.9	-76.3	.00300	350.6	.00001250	.60389741	
202.50	-49.7	-76.3	.00305	352.6	.00001112	.60390852	
198.80	-49.6	-76.5	.00300	354.8	.00001141	.60391994	
195.20	-49.4	-76.9	.00287	356.9	.00001076	.60393070	
191.60	-49.2	-77.9	.00250	359.1	.00000985	.60394055	
188.00	-48.8	-78.1	.00249	361.6	.00000915	.60394970	
184.70	-48.5	-77.2	.00292	364.0	.00000909	.60395879	
181.20	-48.3	-77.4	.00286	366.3	.00001031	.60396910	
177.90	-49.0	-77.6	.00284	367.1	.00000960	.60397869	
174.40	-49.4	-78.1	.00268	368.6	.00000985	.60398854	
170.90	-49.7	-78.0	.00277	370.1	.00000972	.60399826	
167.50	-49.9	-77.2	.00318	372.0	.00001031	.60400857	
164.30	-50.3	-78.8	.00252	373.4	.00000930	.60401787	

WASHINGTON, D.C.		1/21/66	1555Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	e (°K)	M (cm)	ΣM (cm)	
161.10	-50.5	-79.0	.00247	375.2	.00000814	.60402600	
157.80	-51.0	-78.9	.00259	376.5	.00000851	.60403451	
154.80	-51.4	-78.1	.00302	377.9	.00000858	.60404310	
151.70	-51.6	-78.2	.00300	379.8	.00000951	.60405260	
148.50	-51.9	-77.9	.00323	381.5	.00001016	.60406277	
145.50	-52.1	-78.9	.00281	383.4	.00000924	.60407200	
142.20	-53.1	-79.0	.00284	384.2	.00000949	.60408150	
139.30	-53.5	-79.6	.00259	385.8	.00000802	.60408951	
136.50	-53.9	-80.1	.00246	387.4	.00000721	.60409673	
133.70	-54.3	-79.8	.00262	389.0	.00000726	.60410398	
130.80	-55.1	-80.4	.00243	390.0	.00000747	.60411145	
128.00	-55.5	-80.5	.00244	391.6	.00000696	.60411841	
125.20	-55.9	-80.8	.00239	393.4	.00000690	.60412531	
122.50	-56.3	-80.5	.00255	395.1	.00000681	.60413212	
119.80	-57.0	-80.2	.00277	396.4	.00000733	.60413945	
116.90	-57.4	-81.4	.00231	398.4	.00000751	.60414696	
114.00	-57.6	-80.6	.00271	400.9	.00000741	.60415436	
111.00	-58.0	-80.1	.00303	403.1	.00000878	.60416314	
108.30	-58.7	-80.5	.00289	404.7	.00000815	.60417129	
105.90	-59.4	-79.9	.00327	406.0	.00000753	.60417882	
103.70	-59.6	-81.1	.00272	408.0	.00000672	.60418554	
101.20	-59.6	-80.8	.00296	410.9	.00000724	.60419278	
98.80	-59.9	-81.4	.00273	413.2	.00000696	.60419974	
96.40	-59.9	-80.8	.00311	416.1	.00000714	.60420687	
94.00	-60.1	-81.0	.00305	418.7	.00000753	.60421440	
91.70	-60.6	-81.7	.00281	420.7	.00000687	.60422127	
89.30	-61.5	-81.4	.00302	422.0	.00000714	.60422841	
87.00	-61.8	-80.9	.00339	424.7	.00000753	.60423593	
84.70	-62.0	-80.6	.00364	427.4	.00000824	.60424417	
82.70	-62.0	-81.3	.00331	430.4	.00000709	.60425127	
80.50	-62.0	-81.4	.00335	433.7	.00000747	.60425873	
78.80	-61.8	-81.0	.00369	436.8	.00000609	.60426483	
76.80	-60.8	-81.9	.00321	442.1	.00000703	.60427186	
74.70	-60.3	-81.9	.00335	446.6	.00000702	.60427888	
72.60	-60.6	-82.3	.00318	449.8	.00000699	.60428587	
70.70	-61.1	-83.2	.00283	452.2	.00000583	.60429169	
68.70	-61.8	-82.8	.00311	454.3	.00000605	.60429774	
66.70	-62.3	-82.7	.00325	457.1	.00000648	.60430422	
64.70	-62.0	-82.6	.00341	461.6	.00000679	.60431102	
62.70	-62.0	-82.9	.00335	465.8	.00000688	.60431790	
60.70	-62.0	-83.6	.00309	470.1	.00000656	.60432446	
58.80	-62.0	-83.6	.00319	474.4	.00000606	.60433052	
57.00	-62.3	-84.3	.00292	478.1	.00000559	.60433611	
55.20	-62.3	-84.3	.00301	482.5	.00000544	.60434155	
53.50	-62.5	-85.2	.00265	486.2	.00000490	.60434645	
51.70	-62.5	-85.0	.00284	491.0	.00000504	.60435149	
50.10	-62.5	-85.3	.00278	495.4	.00000457	.60435607	
48.50	-62.5	-85.3	.00287	500.1	.00000460	.60436067	
47.00	-62.5	-84.8	.00324	504.6	.00000466	.60436533	
45.40	-62.5	-85.3	.00306	509.6	.00000514	.60437047	
43.80	-62.3	-85.4	.00312	515.4	.00000504	.60437551	
42.90	-62.0	-86.4	.00269	519.1	.00000265	.60437816	
41.60	-62.0	-87.5	.00227	523.7	.00000328	.60438144	
40.40	-61.8	-86.5	.00280	528.7	.00000310	.60438454	
39.20	-61.8	-86.0	.00311	533.3	.00000361	.60438815	

WASHINGTON, D.C.		1/21/66	1555Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
37.90	-61.8	-86.5	.00298	538.4	.00000404	.60439219	
36.60	-61.8	-87.0	.00280	543.8	.00000383	.60439602	
35.30	-61.8	-87.2	.00284	549.5	.00000374	.60439976	
34.00	-61.8	-87.6	.00272	555.4	.00000368	.60440344	
32.80	-61.8	-88.0	.00265	561.1	.00000328	.60440671	
31.60	-61.5	-88.1	.00269	567.8	.00000326	.60440998	
30.40	-61.1	-88.8	.00245	575.5	.00000314	.60441312	
29.30	-60.8	-87.7	.00309	582.2	.00000310	.60441622	
28.10	-60.3	-89.6	.00232	590.5	.00000331	.60441953	
27.00	-60.1	-90.3	.00209	598.0	.00000246	.60442199	
26.00	-59.9	-89.2	.00268	605.1	.00000243	.60442442	
24.80	-59.6	-88.7	.00307	614.0	.00000352	.60442793	
23.60	-59.4	-87.8	.00376	623.4	.00000417	.60443211	
22.50	-59.2	-90.5	.00245	632.7	.00000347	.60443558	
21.30	-58.9	-90.1	.00278	643.4	.00000319	.60443877	
20.20	-58.7	-90.3	.00279	653.9	.00000311	.60444188	
19.10	-58.3	-91.2	.00254	665.8	.00000298	.60444486	
18.10	-58.0	-92.2	.00223	676.8	.00000243	.60444729	
17.10	-57.8	-93.1	.00199	688.6	.00000215	.60444944	
16.10	-57.6	-94.2	.00171	701.3	.00000188	.60445131	
15.30	-57.4	-94.2	.00180	712.3	.00000143	.60445274	
14.50	-57.2	-94.3	.00184	724.0	.00000148	.60445422	
13.80	-57.0	-94.5	.00187	735.0	.00000133	.60445555	
13.20	-56.5	-95.7	.00155	745.9	.00000104	.60445659	

WASHINGTON, D.C.		2/23/66	1628Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1033.10	-8	-6.6	2.12003	269.9			
1021.50	-1.8	-6.6	2.14418	269.7	.02523705	.02523705	
1010.00	-2.8	-7.1	2.06312	269.6	.02468562	.04992267	
998.00	-3.6	-7.7	1.98425	269.7	.02477972	.07470240	
986.00	-4.6	-7.7	2.00848	269.6	.02444518	.09914757	
973.00	-4.2	-7.7	2.03540	271.0	.02682152	.12596910	
960.00	-5.3	-10.9	1.56160	271.0	.02385753	.14982663	
946.00	-5.9	-10.9	1.58476	271.5	.02247390	.17230053	
932.00	-6.7	-11.4	1.53873	271.8	.02231061	.19461115	
918.00	-6.9	-11.4	1.56226	272.9	.02214988	.21676102	
904.00	-7.0	-12.3	1.45772	274.0	.02157123	.23833226	
890.00	-6.9	-14.1	1.25863	275.3	.01940244	.25773470	
876.00	-6.2	-14.9	1.18463	277.2	.01745181	.27518651	
860.00	-4.8	-14.9	1.20672	280.2	.01952115	.29470766	
847.00	-3.7	-19.4	.80709	282.5	.01335680	.30806446	
834.00	-4.1	-21.0	.70141	283.4	.01000531	.31806977	
820.00	-4.8	-21.0	.71340	284.0	.01010579	.32817556	
807.00	-5.8	-20.3	.77040	284.2	.00984153	.33801709	
794.00	-6.9	-21.3	.71464	284.4	.00984970	.34786679	
780.00	-7.6	-21.6	.70662	285.1	.01015177	.35801856	
766.00	-8.4	-24.4	.54365	285.7	.00893046	.36694902	
752.00	-8.9	-28.4	.37255	286.7	.00654423	.37349325	
736.00	-9.2	-31.3	.28026	288.1	.00532904	.37882230	
724.00	-9.7	-34.8	.19642	288.9	.00291847	.38174076	
711.00	-9.8	-37.7	.14592	290.3	.00227061	.38401137	
698.00	-10.3			291.3	.00000000	.38401137	
684.00	-10.8			292.4	.00000000	.38401137	
671.00	-11.9	-33.6	.24194	292.9	.00160469	.38561606	
657.00	-12.9	-30.5	.34154	293.5	.00416769	.38978375	
644.00	-14.0	-29.9	.37184	293.9	.00473160	.39451535	
630.00	-14.9	-29.9	.38011	294.7	.00537108	.39988643	
617.00	-16.0	-31.1	.34125	295.2	.00478452	.40467095	
603.00	-17.0	-32.5	.30269	296.0	.00459953	.40927048	
590.00	-18.0	-34.8	.24105	296.7	.00360638	.41287686	
577.00	-19.0	-35.3	.23348	297.4	.00314735	.41602421	
565.00	-20.1	-35.3	.23844	297.9	.00288925	.41891345	
552.00	-21.3	-35.3	.24405	298.5	.00320017	.42211363	
541.00	-21.8	-35.3	.24902	299.6	.00276722	.42488085	
531.00	-22.3	-35.3	.25371	300.6	.00256492	.42744577	
522.00	-22.5	-33.9	.29919	301.8	.00253883	.42998460	
511.00	-22.9	-30.1	.45839	303.2	.00425175	.43423635	
500.20	-23.8	-29.0	.52313	304.0	.00540839	.43964474	
489.00	-25.1	-27.4	.62993	304.4	.00658889	.44623363	
478.00	-26.3	-27.9	.61419	304.8	.00698228	.45321591	
467.00	-27.5	-30.1	.50162	305.4	.00626218	.45947810	
455.70	-28.9	-31.1	.46213	305.7	.00555629	.46503438	
445.20	-30.2	-33.4	.37165	306.1	.00446667	.46950105	
434.20	-31.4	-35.9	.28870	306.8	.00370605	.47320710	
423.10	-32.7	-37.2	.25785	307.4	.00309525	.47630236	
413.30	-34.1	-36.4	.28771	307.7	.00272775	.47903010	
404.30	-35.5	-37.2	.26984	307.9	.00256015	.48159026	
394.30	-36.9	-40.2	.19708	308.3	.00238225	.48397250	
384.40	-38.3	-40.1	.20523	308.7	.00203206	.48600456	
374.80	-39.6	-40.4	.20412	309.2	.00200494	.48800950	
365.30	-41.1	-41.9	.17498	309.5	.00183746	.48984696	
356.80	-42.6	-44.5	.13325	309.5	.00133671	.49118367	

WASHINGTON, D.C.		2/23/66	1628Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
347.80	-43.7	-46.6	.10643	310.3	.00110056	.49228422	
339.00	-44.9	-45.6	.12271	310.9	.00102876	.49331298	
330.30	-45.9	-46.8	.10925	311.9	.00102960	.49434258	
322.20	-46.7	-47.8	.09997	313.0	.00086464	.49520722	
319.80	-46.7	-49.0	.08697	313.6	.00022890	.49543612	
315.60	-46.9	-49.8	.07916	314.6	.00035599	.49579211	
311.40	-47.2	-49.6	.08214	315.3	.00034565	.49613775	
307.50	-47.5	-51.6	.06519	316.0	.00029315	.49643090	
303.20	-47.7	-52.5	.05908	317.0	.00027260	.49670351	
299.00	-48.2	-51.5	.06782	317.6	.00027190	.49697541	
295.00	-48.9	-50.6	.07711	317.8	.00029576	.49727117	
291.00	-49.8	-51.4	.07049	317.8	.00030121	.49757238	
287.20	-49.8	-53.5	.05464	319.0	.00024259	.49781497	
283.30	-49.8	-55.7	.04195	320.3	.00019218	.49800715	
279.50	-50.0	-56.5	.03830	321.3	.00015558	.49816273	
276.00	-50.1	-54.5	.05049	322.2	.00015855	.49832128	
272.20	-50.5	-54.1	.05344	322.9	.00020149	.49852277	
268.60	-50.9	-53.8	.05654	323.6	.00020200	.49872477	
265.10	-51.6	-52.0	.07228	323.8	.00023003	.49895480	
261.90	-52.1	-51.6	.07654	324.1	.00024295	.49919775	
257.80	-52.7	-51.6	.07775	324.7	.00032274	.49952050	
253.60	-53.7	-52.5	.07063	324.8	.00031796	.49983846	
249.50	-54.6	-54.0	.05957	324.9	.00027235	.50011081	
245.30	-55.6	-54.9	.05385	325.0	.00024304	.50035384	
241.20	-56.2	-56.6	.04392	325.7	.00020452	.50055836	
237.10	-57.3	-56.5	.04515	325.7	.00018632	.50074469	
233.00	-57.9	-58.1	.03743	326.3	.00017273	.50091742	
229.00	-58.6	-59.0	.03372	326.9	.00014520	.50106262	
225.30	-59.0	-59.2	.03327	327.8	.00012647	.50118908	
221.50	-59.9	-60.0	.03032	328.0	.00012329	.50131238	
217.80	-60.4	-61.7	.02458	328.9	.00010364	.50141601	
214.20	-59.9	-62.8	.02139	331.1	.00008442	.50150043	
209.70	-59.7	-64.5	.01730	333.5	.00008883	.50158925	
205.50	-59.9	-65.8	.01469	335.1	.00006855	.50165780	
201.60	-60.2	-66.9	.01270	336.6	.00005448	.50171228	
197.50	-60.6	-66.0	.01470	337.8	.00005731	.50176959	
193.80	-61.1	-66.3	.01441	338.9	.00005494	.50182453	
190.20	-60.2	-66.7	.01385	342.2	.00005192	.50187644	
186.70	-59.0	-68.8	.01034	345.9	.00004318	.50191963	
183.10	-59.9	-68.2	.01151	346.3	.00004013	.50195976	
180.00	-60.6	-69.5	.00972	346.9	.00003357	.50199333	
176.70	-60.4	-70.6	.00837	349.1	.00003046	.50202379	
173.20	-60.2	-72.9	.00606	351.5	.00002576	.50204955	
169.40	-59.7	-71.3	.00790	354.5	.00002708	.50207663	
165.70	-60.4	-72.6	.00667	355.6	.00002751	.50210413	
162.20	-60.6	-74.5	.00505	357.4	.00002092	.50212505	
157.70	-60.9	-75.9	.00419	359.9	.00002120	.50214626	
155.30	-60.2	-77.7	.00316	362.6	.00000900	.50215526	
152.20	-59.7	-78.2	.00301	365.5	.00000976	.50216502	
149.20	-58.8	-77.7	.00333	369.1	.00000970	.50217472	
146.20	-58.2	-78.2	.00310	372.4	.00000983	.50218455	
143.30	-57.7	-78.6	.00299	375.3	.00000900	.50219356	
140.50	-58.2	-78.5	.00308	376.7	.00000866	.50220221	
137.00	-59.0	-78.6	.00312	377.9	.00001107	.50221328	
133.80	-58.8	-78.9	.00305	380.8	.00001007	.50222336	

WASHINGTON,D.C.		2/23/66	1638Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
130.70	-58.4	-78.9	.00312	384.2	.00000976	.50223312	
127.50	-58.4	-79.5	.00288	386.9	.00000979	.50224291	
124.60	-58.2	-79.5	.00295	389.8	.00000861	.50225152	
121.70	-58.4	-80.6	.00255	392.1	.00000812	.50225964	
118.90	-58.6	-81.6	.00219	394.3	.00000677	.50226641	
116.20	-59.0	-81.9	.00213	396.1	.00000595	.50227235	
113.50	-59.3	-82.4	.00202	398.3	.00000571	.50227806	
111.00	-59.5	-81.3	.00247	400.4	.00000571	.50228377	
107.70	-59.9	-80.8	.00278	403.0	.00000882	.50229259	
105.90	-60.6	-81.0	.00272	403.7	.00000504	.50229762	
103.00	-61.1	-81.5	.00259	406.0	.00000785	.50230548	
100.20	-61.1	-81.8	.00250	409.2	.00000727	.50231275	
97.30	-60.9	-81.9	.00254	413.1	.00000745	.50232020	
94.70	-60.9	-82.0	.00258	416.3	.00000678	.50232698	
92.00	-60.6	-81.6	.00283	420.2	.00000744	.50233442	
89.40	-60.6	-81.1	.00318	423.7	.00000796	.50234237	
86.80	-60.9	-81.2	.00324	426.8	.00000851	.50235088	
84.40	-60.9	-81.1	.00337	430.2	.00000808	.50235896	
82.10	-61.1	-81.2	.00342	433.1	.00000796	.50236692	
79.80	-61.1	-81.2	.00352	436.7	.00000814	.50237505	
77.50	-61.1	-81.5	.00340	440.3	.00000812	.50238317	
75.40	-61.1	-82.1	.00320	443.8	.00000706	.50239024	
73.40	-61.1	-82.2	.00324	447.2	.00000656	.50239679	
71.20	-60.9	-82.3	.00326	451.6	.00000729	.50240408	
69.50	-60.6	-82.5	.00321	455.3	.00000560	.50240968	
67.80	-60.4	-82.7	.00320	459.0	.00000556	.50241524	
66.20		-82.9	.00319		.00000522	.50242046	
64.60		-82.9	.00323		.00000523	.50242569	
63.00		-83.0	.00327		.00000529	.50243098	
61.40		-83.2	.00326		.00000532	.50243630	
59.80		-83.4	.00322		.00000528	.50244157	
58.30		-83.6	.00321		.00000492	.50244649	
56.70		-83.8	.00317		.00000520	.50245169	
55.20		-84.2	.00303		.00000474	.50245643	
53.60		-84.2	.00313		.00000502	.50246145	
52.20		-84.0	.00335		.00000462	.50246607	
50.70		-84.2	.00330		.00000508	.50247115	
49.20		-84.6	.00317		.00000495	.50247610	
47.70		-85.0	.00304		.00000475	.50248085	
46.30		-84.8	.00328		.00000450	.50248535	
45.00		-85.1	.00318		.00000428	.50248963	
43.60		-85.0	.00333		.00000465	.50249428	
42.30		-85.9	.00296		.00000417	.50249845	
41.00		-85.9	.00305		.00000398	.50250243	
39.80		-86.2	.00301		.00000371	.50250614	
38.70		-86.7	.00282		.00000326	.50250940	
38.20		-86.8	.00281		.00000143	.50251083	
37.40		-87.0	.00274		.00000226	.50251310	
36.60		-87.2	.00271		.00000222	.50251532	
35.80		-87.8	.00252		.00000213	.50251745	
34.90		-87.9	.00250		.00000229	.50251974	
34.00		-87.9	.00260		.00000234	.50252208	
33.00		-88.5	.00239		.00000253	.50252461	
32.00		-88.7	.00238		.00000243	.50252704	
31.00		-89.2	.00225		.00000235	.50252940	

WASHINGTON,D.C.		2/23/66	1628Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
29.90	-89.7	.00213		.00000246	.50253186	
28.90	-89.9	.00213		.00000216	.50253402	
27.80	-90.5	.00198		.00000229	.50253631	
26.70	-90.7	.00198		.00000222	.50253853	
26.00	-90.6	.00208		.00000145	.50253998	
24.60	-90.9	.00207		.00000295	.50254293	
23.70	-91.6	.00187		.00000180	.50254473	
22.80	-92.6	.00162		.00000159	.50254633	
22.00	-93.1	.00154		.00000128	.50254761	
21.10	-93.7	.00143		.00000136	.50254896	
20.40	-93.4	.00155		.00000106	.50255002	
19.60	-93.1	.00173		.00000133	.50255135	
18.80	-93.9	.00154		.00000133	.50255267	
18.10	-94.5	.00142		.00000104	.50255372	
17.40	-94.5	.00148		.00000103	.50255474	
16.70	-94.7	.00150		.00000106	.50255580	
16.10	-95.0	.00145		.00000089	.50255670	

WASHINGTON,D.C.		3/17/66	1600Z				ΣM (cm)
P (mb)	T ($^{\circ}$ C)	F ($^{\circ}$ C)	w (g/kg)	θ ($^{\circ}$ K)	M (cm)		ΣM ($^{\circ}$ cm)
1025.90	4.3	-8.9	1.74214	275.4			
1007.00	3.7	-11.3	1.43750	276.3	.03066069	.03066069	
989.00	3.1	-10.6	1.55180	277.2	.02745266	.05811335	
972.00	2.4	-10.6	1.57901	277.8	.02715483	.08526818	
955.50	.5	-10.6	1.60635	277.2	.02681535	.11208354	
939.00	.4	-11.9	1.45665	278.5	.02578530	.13786884	
923.00	-.6	-12.5	1.40159	278.9	.02333249	.16120133	
909.00	-1.7	-16.2	1.01582	279.0	.01726715	.17846848	
895.00	-1.1	-15.9	1.05671	280.8	.01480372	.19327220	
877.00	-1.0	-12.8	1.43468	282.6	.02288000	.21615221	
858.50	-1.9	-12.2	1.54858	283.3	.02815820	.24431041	
840.00	-2.7	-11.3	1.72409	284.2	.03088984	.27520025	
822.00	-3.0	-10.3	1.92543	285.7	.03351584	.30871609	
804.00	-2.1	-22.1	.65005	288.5	.02365230	.33236839	
787.50	-1.4	-22.3	.65093	291.0	.01095204	.34332043	
772.00	-1.7	-16.9	1.11315	292.3	.01395054	.35727097	
758.00	-1.9	-13.7	1.53095	293.6	.01888639	.37615736	
742.00	-2.3	-24.3	.57105	294.9	.01715913	.39331649	
726.00	-2.9	-18.2	1.05419	296.2	.01326717	.40658367	
710.00	-4.1	-16.7	1.24007	296.8	.01872854	.42531221	
695.00	-5.4	-17.9	1.12723	297.1	.01811698	.44342919	
678.50	-6.4	-19.6	.98746	298.0	.01780213	.46123132	
663.00	-7.8	-15.6	1.46357	298.4	.01938304	.48061436	
646.00	-8.8	-17.4	1.26991	299.5	.02370869	.50432305	
629.50	-10.4	-18.6	1.16283	299.9	.02047968	.52480273	
628.00	-10.4	-20.2	1.00127	300.1	.00165619	.52645892	
620.00	-10.9	-21.5	.89557	300.7	.00774215	.53420107	
613.00	-11.5	-23.1	.77362	300.9	.00596137	.54016244	
605.00	-11.9	-23.9	.72687	301.6	.00612442	.54628687	
598.00	-12.4	-24.1	.72166	302.0	.00517330	.55146016	
591.00	-12.8	-23.5	.77252	302.6	.00533634	.55679651	
584.00	-13.8	-28.5	.47194	302.5	.00444449	.56124100	
577.00	-14.5	-28.0	.50123	302.6	.00347558	.56471658	
570.00	-15.3	-28.0	.50739	302.8	.00360216	.56831874	
564.00	-16.2	-28.5	.48869	302.7	.00304919	.57136793	
557.00	-16.8	-29.6	.44275	303.0	.00332655	.57469448	
550.00	-17.7	-30.0	.42826	303.0	.00311074	.57780522	
544.00	-18.6	-29.9	.43955	302.9	.00265655	.58046177	
536.00	-19.2	-30.0	.43946	303.5	.00358775	.58404952	
528.80	-20.1	-31.9	.36682	303.6	.00296181	.58701134	
521.50	-20.7	-36.2	.23388	304.0	.00223728	.58924861	
515.00	-21.5	-36.9	.21948	304.2	.00150347	.59075208	
508.20	-22.0	-36.4	.23394	304.8	.00157309	.59232517	
501.80	-22.8	-36.2	.24307	304.9	.00155757	.59388274	
495.00	-23.7	-35.6	.26290	305.0	.00175539	.59563813	
488.40	-24.4	-35.1	.28093	305.3	.00183128	.59746940	
482.10	-25.2	-34.6	.30013	305.4	.00186770	.59933710	
476.00	-26.1	-35.0	.29202	305.4	.00184290	.60118000	
469.80	-26.7	-34.6	.30800	305.8	.00189798	.60307798	
463.70	-27.8	-34.0	.33390	305.6	.00199771	.60507569	
457.80	-28.6	-34.7	.31196	305.7	.00194414	.60701983	
452.00	-29.2	-34.7	.31596	306.0	.00185812	.60887794	
445.40	-30.0	-35.6	.29219	306.3	.00204785	.61092579	
439.80	-30.7	-38.0	.22696	306.6	.00148328	.61240907	
433.90	-31.4	-39.9	.18543	306.9	.00124136	.61365043	
428.20	-32.2	-40.6	.17326	307.0	.00104314	.61469357	

WASHINGTON,D.C.		3/17/66	1600Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
422.70	-32.9	-42.7	.13860	307.3	.00087512	.61556868	
417.00	-33.4	-45.0	.10741	307.8	.00071542	.61628410	
411.40	-34.1	-45.6	.10120	308.1	.00059603	.61688013	
405.90	-34.7	-46.6	.09066	308.5	.00053839	.61741853	
400.00	-35.5	-46.4	.09487	308.7	.00055848	.61797701	
394.50	-36.5	-46.1	.09918	308.6	.00054452	.61852153	
389.00	-37.6	-46.0	.10164	308.6	.00056349	.61908501	
383.50	-38.3	-45.8	.10635	308.9	.00058362	.61966863	
377.80	-39.0	-49.0	.07283	309.2	.00052106	.62018970	
372.40	-39.8	-50.7	.06022	309.5	.00036655	.62055625	
366.20	-40.5	-51.8	.05353	310.0	.00035980	.62091605	
360.00	-41.3	-50.6	.06289	310.4	.00036824	.62128429	
354.30	-42.1	-50.3	.06643	310.8	.00037608	.62166037	
348.80	-43.2	-49.3	.07661	310.7	.00040141	.62206177	
343.30	-44.1	-51.0	.06284	310.8	.00039132	.62245309	
338.00	-45.1	-52.2	.05478	310.9	.00031807	.62277116	
332.70	-46.0	-52.2	.05618	311.1	.00030003	.62307119	
327.70	-47.0	-53.0	.05139	311.1	.00027440	.62334560	
322.80	-47.9	-53.6	.04838	311.2	.00024943	.62359503	
318.00	-48.9	-53.9	.04685	311.1	.00023322	.62382825	
313.10	-49.8	-54.9	.04213	311.2	.00022244	.62405069	
308.30	-50.7	-55.5	.03970	311.3	.00020039	.62425108	
303.00	-51.7	-56.0	.03750	311.5	.00020877	.62445985	
298.00	-52.5	-56.2	.03742	311.9	.00019112	.62465097	
293.30	-53.5	-57.2	.03338	311.9	.00016977	.62482074	
288.80	-54.5	-58.0	.03034	311.9	.00014627	.62496701	
284.30	-55.1	-58.3	.02969	312.4	.00013781	.62510481	
280.00	-55.9	-59.1	.02697	312.5	.00012429	.62522911	
276.00	-56.8	-60.4	.02314	312.6	.00010225	.62533136	
272.00	-57.7	-59.6	.02602	312.6	.00010030	.62543166	
268.20	-57.9	-59.6	.02638	313.5	.00010158	.62553324	
264.30	-57.7	-60.4	.02416	315.2	.00010057	.62563381	
260.40	-57.9	-60.5	.02407	316.2	.00009596	.62572977	
256.50	-58.1	-61.2	.02225	317.2	.00009216	.62582193	
251.50	-58.3	-61.8	.02105	318.7	.00011045	.62593238	
247.00	-58.6	-62.5	.01932	320.0	.00009266	.62602504	
242.50	-58.8	-63.4	.01738	321.3	.00008424	.62610927	
238.00	-59.0	-63.9	.01655	322.7	.00007790	.62618718	
234.20	-59.0	-66.1	.01230	324.2	.00005592	.62624310	
230.00	-58.8	-67.4	.01034	326.2	.00004849	.62629159	
226.00	-58.6	-68.2	.00939	328.2	.00004026	.62633185	
221.50	-58.3	-69.0	.00854	330.5	.00004117	.62637302	
218.00	-57.9	-69.8	.00772	332.7	.00002903	.62640205	
214.00	-57.7	-70.7	.00683	334.8	.00002967	.62643172	
210.50	-57.4	-71.5	.00621	336.7	.00002326	.62645498	
206.70	-57.2	-72.4	.00545	338.8	.00002259	.62647757	
204.80	-57.0	-74.4	.00408	340.0	.00000922	.62648679	
197.00	-56.8	-75.1	.00379	344.2	.00003131	.62651810	
194.50	-56.6	-75.8	.00342	345.8	.00000919	.62652729	
190.80	-56.6	-76.2	.00331	347.7	.00001270	.62653999	
187.20	-55.7	-76.9	.00299	351.0	.00001156	.62655155	
183.60	-54.5	-77.4	.00285	354.9	.00001071	.62656227	
180.00	-54.3	-78.0	.00260	357.3	.00001000	.62657227	
176.80	-53.6	-78.1	.00261	360.1	.00000849	.62658076	
173.60	-53.6	-78.4	.00254	362.0	.00000840	.62658916	

WASHINGTON, D.C.		3/17/66	1600Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
170.00	-53.9	-78.4	.00260	363.9	.00000943	.62659860
166.60	-54.5	-78.8	.00247	364.9	.00000878	.62660737
163.20	-54.5	-79.4	.00230	367.1	.00000827	.62661564
160.00	-54.5	-79.4	.00235	369.2	.00000758	.62662323
156.70	-54.5	-79.4	.00240	371.4	.00000799	.62663122
153.50	-54.7	-79.5	.00241	373.2	.00000784	.62663905
150.20	-55.3	-79.8	.00236	374.5	.00000802	.62664707
147.00	-55.7	-80.4	.00216	376.1	.00000736	.62665443
143.90	-55.7	-80.8	.00207	378.4	.00000668	.62666111
140.80	-55.7	-80.8	.00211	380.7	.00000662	.62666772
137.00	-55.7	-81.0	.00210	383.7	.00000817	.62667589
134.30	-55.7	-81.5	.00198	385.9	.00000562	.62668151
131.50	-56.3	-82.2	.00180	387.1	.00000538	.62668689
128.80	-57.0	-82.4	.00177	388.2	.00000490	.62669179
126.00	-57.7	-82.3	.00184	389.5	.00000516	.62669694
123.20	-58.1	-82.5	.00182	391.2	.00000523	.62670217
120.50	-58.8	-82.8	.00176	392.4	.00000493	.62670711
118.00	-59.0	-82.7	.00183	394.3	.00000459	.62671170
115.40	-59.3	-82.9	.00181	396.4	.00000483	.62671652
112.80	-59.5	-83.2	.00176	398.6	.00000472	.62672125
110.20	-59.7	-83.2	.00180	400.8	.00000471	.62672596
107.00	-60.0	-83.8	.00169	403.7	.00000568	.62673163
103.50	-60.2	-83.5	.00185	407.1	.00000630	.62673794
101.00	-60.5	-83.7	.00182	409.5	.00000468	.62674262
98.00	-60.5	-84.0	.00178	413.0	.00000550	.62674811
95.50	-60.5	-83.7	.00193	416.1	.00000472	.62675284
92.50	-60.5	-83.9	.00192	419.9	.00000587	.62675871
90.00	-60.2	-83.9	.00197	423.7	.00000495	.62676366
88.00	-60.0	-83.8	.00205	426.9	.00000410	.62676775
85.50	-59.7	-83.5	.00223	430.9	.00000545	.62677321
83.50				433.8	.00000000	.62677321
81.50				436.9	.00000000	.62677321
79.50				440.0	.00000000	.62677321
77.00				444.0	.00000000	.62677321
76.00				445.7	.00000000	.62677321
74.20	-58.8	-83.3	.00262	450.7	.00000240	.62677561
72.20	-58.8	-82.8	.00295	454.2	.00000568	.62678128
70.20	-58.8	-83.5	.00272	457.9	.00000578	.62678707
68.30	-59.0	-83.6	.00275	461.0	.00000529	.62679236
66.30	-59.0	-83.8	.00273	464.9	.00000557	.62679793
64.40	-59.0	-83.6	.00291	468.8	.00000545	.62680338
62.50	-59.0	-84.1	.00273	472.8	.00000547	.62680885
60.70	-59.0	-84.4	.00266	476.8	.00000495	.62681380
58.80	-59.3	-84.5	.00269	480.6	.00000517	.62681897
57.00	-59.7	-84.8	.00267	483.8	.00000492	.62682389
55.20	-60.0	-84.9	.00270	487.7	.00000493	.62682882
53.40	-60.0	-85.1	.00269	492.4	.00000495	.62683377
51.70	-60.0	-85.5	.00261	497.0	.00000459	.62683836
50.00	-60.2	-85.3	.00276	501.2	.00000465	.62684301
48.40	-60.2	-85.7	.00268	505.9	.00000443	.62684743
46.80	-59.7	-86.1	.00260	511.9	.00000431	.62685174
45.30	-59.0	-86.2	.00263	518.4	.00000399	.62685573
43.80	-58.8	-86.5	.00255	523.9	.00000396	.62685969
42.30	-58.1	-86.7	.00258	530.9	.00000392	.62686361
41.00	-57.7	-86.8	.00261	536.8	.00000344	.62686706

WASHINGTON, D.C.		3/17/66		1600Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
39.70	-57.4	-86.9	.00264	542.3	.00000347	.62687053	
38.30	-57.0	-86.7	.00285	549.0	.00000392	.62687445	
37.00	-56.6	-86.9	.00283	555.6	.00000376	.62687820	
35.80	-55.9	-87.3	.00273	562.5	.00000340	.62688160	
34.70	-55.5	-87.4	.00276	568.6	.00000307	.62688467	
33.50	-55.3	-87.3	.00292	574.9	.00000347	.62688814	
32.10	-55.1	-88.1	.00265	582.6	.00000398	.62689212	
30.80	-54.9	-88.5	.00257	590.0	.00000346	.62689558	
29.40	-54.7	-88.9	.00250	598.5	.00000362	.62689920	
28.00	-54.5	-89.0	.00256	607.5	.00000361	.62690280	
26.60	-53.5	-89.9	.00231	619.3	.00000347	.62690628	
25.20	-52.5	-90.8	.00207	631.7	.00000313	.62690940	
23.90	-51.5	-90.9	.00212	644.2	.00000277	.62691218	
22.70	-50.7	-91.1	.00217	655.9	.00000262	.62691480	
21.50	-49.8	-91.7	.00204	669.0	.00000258	.62691738	
20.40	-48.9	-92.2	.00196	681.8	.00000224	.62691961	
19.30	-48.0	-92.5	.00195	695.5	.00000219	.62692180	
18.40	-47.5	-92.7	.00198	706.7	.00000180	.62692361	
17.70	-47.5	-93.4	.00181	714.5	.00000134	.62692495	
17.00	-47.5	-93.4	.00188	722.8	.00000131	.62692626	
16.30	-47.5	-93.9	.00177	731.6	.00000130	.62692755	
15.80	-47.5	-94.3	.00170	738.1	.00000088	.62692843	
15.20	-47.5	-94.5	.00171	746.3	.00000104	.62692948	
14.60	-47.7	-94.7	.00172	754.4	.00000104	.62693052	
14.00	-47.7	-94.9	.00173	763.5	.00000104	.62693155	
13.50	-47.7	-95.5	.00160	771.4	.00000083	.62693240	
13.00	-47.7	-96.3	.00141	779.8	.00000076	.62693316	
12.50	-47.7	-96.5	.00141	788.6	.00000072	.62693387	
12.10	-47.7	-96.3	.00152	795.9	.00000060	.62693447	
11.80	-47.7	-96.1	.00162	801.7	.00000048	.62693495	
11.40	-47.7	-96.7	.00148	809.6	.00000063	.62693557	
11.10	-47.7	-96.7	.00152	815.8	.00000045	.62693602	

WASHINGTON, D.C. 4/21/66 1646Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.40	23.3	21.4	15.96422	294.9	.18901759	.18901759
1005.00	22.0	16.3	11.68324	294.7	.05398940	.24300699
1000.00	20.4	13.1	9.48069	293.5	.10351750	.34652449
989.00	19.0	12.0	8.96432	293.1	.11607133	.46259582
976.00	17.4	11.1	8.53573	292.6	.15827158	.62086740
958.00	16.4	11.1	8.69835	293.1	.12460870	.74547610
944.50	16.4	12.0	9.39305	294.3	.11030385	.85577995
932.00	14.8	9.3	7.90266	293.8	.17957827	1.03535822
910.00	13.0	9.3	8.09620	294.0	.13338082	1.16873904
894.00	11.1	9.3	8.24302	293.5	.11224125	1.28098029
880.00	9.9	7.6	7.47082	293.6	.10311657	1.38409686
865.50	9.0	5.3	6.46775	294.0	.08362176	1.46771862
852.00	8.5	3.2	5.67294	294.9	.08018301	1.54790163
837.00	7.8	.7	4.80435	295.6	.07592984	1.62383147
822.00	7.5	1.3	5.11719	296.8	.05145189	1.67528336
808.50	7.2	-8.2	2.35289	297.9	.03513220	1.71041556
794.00	7.0	-8.2	2.39603	299.3	.03811875	1.74853431
780.00	6.4	-6.0	2.94062	300.2	.03722385	1.78575815
767.00	5.8	-7.3	2.67162	301.0	.05030596	1.83606412
752.00	4.7	-3.2	3.90172	301.4	.06347930	1.89954342
738.00	4.0	-.5	4.98542	302.3	.06129597	1.96083939
723.50	3.0	-5.6	3.30014	302.9	.04261598	2.00345537
710.00	2.0	-7.3	2.88709	303.5	.04119469	2.04465006
694.00	1.3	-10.9	2.15928	304.7	.03864194	2.08329201
680.00	.4	-6.5	3.25062	305.4	.04363741	2.12692942
666.00	-.9	-8.2	2.85864	305.8	.03857130	2.16550072
652.00	-2.4	-9.8	2.54136	306.0	.03243089	2.19793160
639.20	-3.3	-10.5	2.42464	306.7	.02513413	2.22306573
626.00	-3.3	-17.5	1.30741	308.5	.00802891	2.23109464
615.50	-3.4	-36.5	.19132	309.8	.00230713	2.23340178
604.20	-4.0	-35.9	.20885	310.9	.00427561	2.23767738
591.60	-4.7	-28.7	.45624	311.8	.00626311	2.24394049
578.30	-5.9	-28.7	.46674	312.5	.00602831	2.24996880
566.00	-6.7	-28.4	.49387	313.5	.00421228	2.25418107
552.40	-7.4	-42.1	.11320	314.9	.00126037	2.25544144
540.00	-8.4	-44.7	.08602	315.7	.00131974	2.25676118
527.70	-9.5	-41.7	.12428	316.5	.00243878	2.25919996
515.00	-10.9	-35.6	.25210	317.0	.00408186	2.26328182
504.00	-12.3	-29.9	.47521	317.2	.00613284	2.26941466
491.30	-13.7	-30.2	.47128	317.9	.00517660	2.27459127
478.00	-15.0	-35.0	.29159	318.8	.00223111	2.27682237
466.00	-16.5	-47.3	.07282	319.3	.00079376	2.27761613
455.00	-17.5	-48.0	.06861	320.2	.00101480	2.27863093
443.60	-19.0	-44.6	.10587	320.6	.00346473	2.28209566
433.00	-20.8	-30.2	.53479	320.6	.00691228	2.28900793
421.80	-22.4	-28.2	.67487	320.9	.00682329	2.29583122
411.00	-24.3	-30.2	.56344	320.8	.00462613	2.30045734
400.00	-25.8	-37.6	.26086	321.3	.00227575	2.30273309
390.00	-27.5	-40.9	.18519	321.5	.00169539	2.30442849
378.00	-28.8	-47.1	.09172	322.6	.00126602	2.30569451
367.00	-30.0	-44.2	.13386	323.8	.00158583	2.30728033
355.00	-31.3	-45.1	.12516	325.1	.00144377	2.30872411
344.00	-32.9	-44.9	.13210	325.9	.00215335	2.31087746
333.00	-34.3	-39.6	.25159	327.0	.00183751	2.31271496
322.00	-35.5	-50.0	.07582	328.5	.00077394	2.31348890
312.40	-37.0	-49.6	.08219	329.3		

WASHINGTON, D.C.		4/21/66	1646Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
302.20	-39.3	-50.6	.07531	329.2	.00081967	2.31430857	
290.50	-41.4	-51.9	.06686	330.0	.00084867	2.31515723	
280.00	-43.7	-54.1	.05187	330.1	.00063603	2.31579326	
270.00	-46.1	-56.3	.04046	330.1	.00047107	2.31626433	
260.00	-48.3	-58.2	.03293	330.4	.00037442	2.31663875	
250.00	-50.6	-60.6	.02492	330.7	.00029512	2.31693387	
240.00	-53.0	-61.3	.02343	330.9	.00024664	2.31718051	
231.00	-55.2	-61.6	.02344	331.3	.00021519	2.31739570	
222.00	-57.5	-61.9	.02327	331.5	.00021449	2.31761019	
213.00	-59.8	-62.3	.02314	332.0	.00021313	2.31782332	
203.00	-62.2	-63.4	.02089	332.8	.00022465	2.31804797	
194.00	-64.5	-65.1	.01705	333.4	.00017422	2.31822219	
185.00	-66.1	-66.9	.01375	335.3	.00014146	2.31836365	
177.00	-67.6	-68.5	.01154	337.2	.00010325	2.31846690	
169.00	-68.5	-69.4	.01048	340.1	.00008988	2.31855679	
161.00	-69.1	-70.3	.00971	343.9	.00008240	2.31863919	
153.00	-70.7	-73.2	.00655	346.1	.00006637	2.31870556	
146.00	-69.7	-77.0	.00377	352.5	.00003687	2.31874242	
139.00	-66.4	-82.9	.00151	363.3	.00001886	2.31876129	
131.30	-64.7	-83.9	.00135	372.3	.00001125	2.31877254	
124.00	-65.0	-84.4	.00131	377.9	.00000992	2.31878246	
117.00	-65.3	-84.9	.00127	383.7	.00000922	2.31879169	
110.00	-65.6	-85.6	.00119	390.0	.00000878	2.31880046	
103.00	-65.3	-86.2	.00115	398.0	.00000836	2.31880882	
96.10	-64.7	-86.4	.00119	407.0	.00000824	2.31881706	
90.00	-63.7	-86.1	.00135	416.8	.00000788	2.31882495	
84.50	-62.4	-86.6	.00130	427.0	.00000742	2.31883237	
79.00	-62.2	-86.6	.00139	435.8	.00000754	2.31883991	
73.50	-63.2	-87.6	.00127	442.7	.00000745	2.31884736	
68.40	-63.4	-87.9	.00128	451.3	.00000662	2.31885397	
63.00	-63.2	-87.7	.00145	462.6	.00000751	2.31886148	
58.00	-61.9	-87.1	.00175	476.5	.00000814	2.31886962	
53.00	-59.5	-86.5	.00211	494.5	.00000983	2.31887946	
48.30	-58.0	-87.0	.00214	511.5	.00001019	2.31888965	
44.70	-56.7	-87.1	.00227	526.1	.00000809	2.31889774	
40.40	-55.2	-87.2	.00246	545.2	.00001036	2.31890810	
36.80	-53.4	-88.5	.00213	564.5	.00000842	2.31891651	
33.20	-51.9	-87.2	.00299	585.4	.00000940	2.31892592	
30.00	-49.7	-86.9	.00352	608.6	.00001061	2.31893653	
26.40	-48.6	-87.0	.00392	634.2	.00001365	2.31895018	
23.00	-48.1	-87.3	.00423	661.2	.00001411	2.31896429	
20.00	-47.1	-87.4	.00476	691.3	.00001375	2.31897804	
17.30	-45.6	-87.7	.00527	725.3	.00001381	2.31899185	
14.20	-45.1	-89.2	.00493	769.0	.00001612	2.31900798	
11.80	-45.4	-91.6	.00379	809.6	.00001067	2.31901865	

WASHINGTON, D.C.		5/5/66	1530Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1025.00	12.0	1.6	4.19503	283.2		
1005.00	13.1	1.6	4.27909	285.9	.08647025	.08647025
993.00	13.1	1.6	4.33116	286.8	.05271558	.13918583
974.00	11.5	1.0	4.22703	286.8	.08296171	.22214754
957.00	10.0	.4	4.11577	286.7	.07236075	.29450829
941.00	8.8	-.2	4.00951	286.9	.06632854	.36083683
925.00	7.7	-.7	3.88647	287.2	.06445675	.42529358
912.00	7.0	-4.9	2.77888	287.6	.04420879	.46950237
898.00	6.3	-6.3	2.50608	288.1	.03774956	.50725193
886.30	5.8	-7.1	2.35429	288.8	.02901331	.53626524
875.00	5.5	-9.9	1.86052	289.5	.02429953	.56056477
861.00	5.4	-11.8	1.60624	290.7	.02476244	.58532721
848.00	5.5	-16.8	1.02815	292.1	.01747292	.60280013
832.00	6.0	-30.5	.27087	294.2	.01060423	.61340436
827.00	6.1	-35.8	.15322	294.9	.00108185	.61448622
818.00	6.0	-15.3	1.22039	295.6	.00630738	.62079360
805.00	5.5	-15.0	1.27573	296.5	.01655583	.63734943
790.50	4.7	-13.1	1.54730	297.1	.02088457	.65823400
776.00	3.7	-13.8	1.48397	297.6	.02242514	.68065915
760.00	3.0	-15.0	1.35143	298.7	.02314599	.70380513
748.00	2.4	-9.6	2.25392	299.4	.02207348	.72587861
732.00	1.8	-10.7	2.08220	300.6	.03539681	.76127543
719.00	1.3	-12.5	1.80838	301.6	.02580477	.78708020
710.00	.5	-12.1	1.88733	301.8	.01697002	.80405022
700.00	-.4	-12.8	1.80058	302.1	.01881583	.82286605
690.00	-1.2	-12.5	1.88461	302.4	.01880194	.84166799
680.40	-2.0	-11.1	2.16766	302.7	.01984778	.86151578
670.00	-2.8	-11.1	2.20143	303.2	.02318281	.88469858
661.00	-3.6	-10.3	2.38287	303.4	.02105027	.90574886
652.00	-4.5	-9.6	2.58717	303.6	.02282153	.92857039
642.70	-5.2	-9.6	2.62476	304.1	.02473000	.95330039
634.00	-6.1	-9.6	2.66094	304.2	.02346194	.97676232
625.80	-7.0	-8.8	2.88941	304.3	.02322075	.99998307
618.00	-7.8	-12.5	2.10492	304.5	.01987533	1.01985840
609.30	-8.4	-12.5	2.13508	305.0	.01882035	1.03867875
600.00	-9.3	-12.8	2.10170	305.3	.02010298	1.05878173
591.50	-10.0	-14.4	1.83864	305.8	.01708813	1.07586986
584.00	-10.7	-14.7	1.81107	306.0	.01396565	1.08983551
576.20	-11.8	-14.7	1.83565	306.0	.01451239	1.10434790
569.00	-12.6	-15.0	1.80639	306.1	.01337886	1.11772676
561.20	-13.7	-15.3	1.78043	306.1	.01427402	1.13200077
553.00	-14.4	-15.6	1.75877	306.5	.01480679	1.14680757
545.90	-14.9	-23.4	.84948	307.0	.00944822	1.15625578
539.00	-15.3	-23.8	.82550	307.7	.00589660	1.16215238
531.00	-15.7	-23.8	.83795	308.5	.00678958	1.16894196
524.00	-16.2	-39.4	.16232	309.1	.00357239	1.17251435
516.20	-16.4	-44.5	.09212	310.1	.00101258	1.17352693
509.00	-16.7	-45.8	.08002	311.0	.00063235	1.17415927
501.30	-16.8	-46.5	.07451	312.2	.00060707	1.17476635
494.00	-17.5	-45.2	.08807	312.8	.00060551	1.17537186
486.40	-18.1	-43.6	.10822	313.4	.00076111	1.17613296
479.00	-18.6	-42.0	.13240	314.1	.00090843	1.17704140
472.20	-19.5	-40.3	.16297	314.3	.00102471	1.17806610
466.00	-20.3	-38.6	.19962	314.6	.00114696	1.17921306
459.00	-20.9	-38.3	.21075	315.1	.00146560	1.18067867
452.00	-22.0	-39.6	.18579	315.1	.00141619	1.18209486

WASHINGTON, D.C.		5/5/66	1530Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
445.00	-23.2	-39.7	.18641	315.0	.00132926	1.18342412	
438.00	-24.1	-38.4	.21795	315.3	.00144410	1.18486822	
432.00	-25.1	-39.4	.19690	315.2	.00126994	1.18613815	
426.00	-25.8	-44.5	.11163	315.7	.00094448	1.18708263	
419.50	-26.4	-46.3	.09197	316.2	.00067520	1.18775783	
413.00	-27.1	-46.5	.09044	316.8	.00060493	1.18836276	
407.00	-27.7	-47.0	.08700	317.3	.00054318	1.18890594	
401.00	-28.5	-47.0	.08830	317.6	.00053662	1.18944256	
394.30	-29.7	-50.2	.06063	317.6	.00050908	1.18995164	
387.00	-31.0	-51.5	.05264	317.7	.00042185	1.19037350	
380.40	-31.9	-52.3	.04853	318.0	.00034067	1.19071417	
373.00	-33.1	-52.3	.04900	318.1	.00036822	1.19108239	
367.40	-34.0	-52.0	.05175	318.4	.00028786	1.19137025	
361.00	-34.8	-51.7	.05478	318.9	.00034785	1.19171810	
355.00	-35.7	-51.8	.05517	319.3	.00033657	1.19205467	
349.00	-36.7	-51.5	.05837	319.4	.00034757	1.19240224	
343.00	-37.4	-50.8	.06432	320.0	.00037557	1.19277781	
337.00	-38.6	-51.2	.06289	320.1	.00038940	1.19316721	
331.40	-39.6	-51.9	.05851	320.2	.00034685	1.19351406	
326.00	-40.6	-51.9	.05889	320.4	.00032344	1.19383751	
320.00	-41.8	-51.0	.06758	320.4	.00038715	1.19422466	
314.00	-42.7	-51.9	.06175	320.8	.00039592	1.19462058	
309.00	-43.5	-52.5	.05801	321.2	.00030552	1.19492610	
303.80	-44.4	-53.3	.05303	321.6	.00029458	1.19522068	
298.00	-45.2	-53.7	.05151	322.2	.00030932	1.19553000	
293.00	-46.0	-54.8	.04578	322.6	.00024818	1.195777818	
288.00	-46.9	-55.5	.04234	322.9	.00022481	1.19600299	
283.00	-47.7	-55.7	.04188	323.3	.00021484	1.19621783	
278.00	-48.6	-57.2	.03528	323.7	.00019683	1.19641466	
273.00	-49.5	-58.7	.02950	324.1	.00016525	1.19657992	
268.40	-50.5	-59.1	.02836	324.3	.00013579	1.19671571	
264.00	-51.4	-59.1	.02884	324.4	.00012840	1.19684412	
259.30	-52.4	-59.4	.02802	324.7	.00013633	1.19698045	
255.00	-53.3	-59.2	.02930	324.8	.00012575	1.19710620	
250.20	-54.4	-59.7	.02798	325.1	.00014026	1.19724646	
246.00	-55.4	-60.0	.02740	325.1	.00011866	1.19736512	
241.40	-56.5	-60.5	.02592	325.2	.00012514	1.19749026	
237.20	-56.9	-61.4	.02335	326.2	.00010557	1.19759583	
233.00	-57.6	-62.1	.02164	326.9	.00009640	1.19769223	
229.00	-58.0	-62.7	.02022	327.8	.00008543	1.19777766	
225.00	-58.7	-63.1	.01963	328.4	.00008132	1.19785897	
221.00	-59.2	-63.5	.01870	329.4	.00007822	1.19793719	
216.60	-59.9	-64.1	.01752	330.2	.00008130	1.19801849	
212.00	-60.1	-64.7	.01657	331.8	.00007999	1.19809848	
208.00	-60.1	-64.8	.01657	333.7	.00006764	1.19816612	
204.00	-60.1	-65.4	.01549	335.5	.00006542	1.19823153	
200.20	-59.9	-66.9	.01285	337.7	.00005493	1.19828646	
197.00	-60.1	-67.5	.01194	338.9	.00004047	1.19832693	
193.30	-60.9	-68.5	.01046	339.5	.00004227	1.19836920	
190.00	-61.3	-68.3	.01097	340.4	.00003609	1.19840530	
186.30	-61.9	-69.9	.00883	341.5	.00003739	1.19844268	
183.00	-61.6	-71.0	.00767	343.7	.00002779	1.19847047	
179.20	-61.3	-75.7	.00377	346.2	.00002219	1.19849266	
175.00	-61.3	-75.9	.00377	348.5	.00001615	1.19850881	
171.70	-61.6	-74.7	.00461	350.0	.00001410	1.19852291	

WASHINGTON, D.C.		5/5/66	1530Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
168.00	-61.6	-75.0	.00449	352.2	.00001717	1.19854008	
165.00	-61.3	-76.4	.00371	354.4	.00001255	1.19855262	
162.00	-61.1	-77.0	.00341	356.7	.00001089	1.19856352	
158.00	-60.1	-79.5	.00233	360.9	.00001173	1.19857524	
154.00	-59.6	-81.6	.00170	364.4	.00000823	1.19858347	
151.00	-59.2	-81.9	.00166	367.2	.00000514	1.19858861	
148.00	-59.2	-82.6	.00149	369.4	.00000481	1.19859342	
145.00	-59.2	-82.3	.00159	371.5	.00000471	1.19859813	
142.00	-59.6	-82.9	.00148	372.9	.00000469	1.19860283	
138.80	-59.9	-83.7	.00132	374.9	.00000456	1.19860739	
135.50	-60.1	-84.4	.00119	377.1	.00000422	1.19861160	
132.70	-60.4	-84.3	.00124	378.9	.00000347	1.19861507	
129.50	-60.9	-84.0	.00134	380.7	.00000422	1.19861929	
126.70	-60.9	-85.3	.00110	383.1	.00000349	1.19862278	
123.90	-60.1	-85.3	.00113	386.9	.00000317	1.19862595	
121.00	-59.2	-85.8	.00105	391.2	.00000322	1.19862917	
118.50	-59.4	-85.9	.00105	393.2	.00000268	1.19863185	
115.50	-60.1	-86.5	.00098	394.7	.00000310	1.19863495	
113.00	-61.1	-86.9	.00092	395.4	.00000241	1.19863737	
110.00	-61.3	-87.6	.00084	398.0	.00000268	1.19864005	
107.50	-61.9	-87.5	.00087	399.6	.00000218	1.19864222	
104.60	-61.6	-87.1	.00098	403.2	.00000273	1.19864495	
102.00	-61.6	-88.0	.00085	406.1	.00000241	1.19864736	
98.90	-61.6	-86.9	.00105	409.7	.00000300	1.19865036	
96.20	-61.3	-87.2	.00104	413.5	.00000288	1.19865324	
94.00	-61.1	-87.1	.00109	416.7	.00000238	1.19865562	
91.80	-60.9	-86.9	.00114	420.0	.00000249	1.19865811	
89.40	-60.9	-86.8	.00119	423.2	.00000285	1.19866095	
87.10	-60.6	-86.7	.00125	426.9	.00000286	1.19866382	
85.00	-60.1	-86.5	.00133	430.9	.00000276	1.19866657	
83.00	-59.6	-86.5	.00136	434.8	.00000274	1.19866931	
81.20	-58.9	-85.2	.00175	439.0	.00000286	1.19867218	
79.40	-58.7	-85.3	.00176	442.2	.00000322	1.19867539	
77.20	-57.8	-85.4	.00178	447.7	.00000396	1.19867936	
75.00	-57.6	-85.8	.00170	451.9	.00000389	1.19868325	
73.00	-57.1	-86.1	.00164	456.3	.00000340	1.19868664	
71.30	-56.9	-85.9	.00175	459.9	.00000294	1.19868958	
69.20	-57.6	-85.9	.00180	462.4	.00000380	1.19869338	
67.20	-58.2	-85.8	.00189	464.8	.00000377	1.19869715	
65.20	-57.6	-86.4	.00177	470.3	.00000373	1.19870088	
63.30	-57.3	-86.8	.00168	474.8	.00000334	1.19870421	
61.60	-55.6	-87.1	.00166	482.4	.00000289	1.19870710	
59.80	-54.4	-86.9	.00174	489.3	.00000311	1.19871022	
57.90	-54.6	-86.3	.00203	493.4	.00000365	1.19871387	
56.20	-55.0	-87.1	.00182	496.6	.00000334	1.19871721	
54.50	-54.8	-87.4	.00176	501.5	.00000310	1.19872031	
52.90	-54.6	-87.8	.00170	506.3	.00000282	1.19872312	
51.20	-54.2	-88.0	.00168	512.0	.00000294	1.19872606	
49.50	-53.3	-88.2	.00167	518.8	.00000291	1.19872896	
48.00	-53.3	-87.8	.00188	523.4	.00000271	1.19873168	
46.50	-53.1	-87.4	.00206	528.7	.00000301	1.19873469	
44.90	-52.9	-88.1	.00188	534.5	.00000322	1.19873790	
43.50	-52.6	-88.2	.00190	540.3	.00000270	1.19874060	
42.00	-51.4	-88.1	.00201	548.6	.00000298	1.19874358	
40.80	-50.3	-88.2	.00202	556.0	.00000246	1.19874604	

WASHINGTON, D.C.		5/5/66	1530Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
39.20	-49.0	-88.8	.00192	565.6	.00000322	1.19874926
38.00	-47.9	-89.1	.00185	573.4	.00000231	1.19875157
36.50	-48.4	-89.7	.00175	578.6	.00000276	1.19875433
35.10	-49.0	-89.7	.00182	583.7	.00000255	1.19875687
33.80	-49.0	-89.7	.00190	590.0	.00000246	1.19875933
32.40	-49.0	-89.8	.00193	597.2	.00000273	1.19876206
31.10	-49.0	-90.2	.00187	604.3	.00000252	1.19876458
29.90	-49.0	-90.9	.00171	611.1	.00000219	1.19876677
28.30	-49.7	-91.3	.00167	618.8	.00000276	1.19876952
26.70	-50.5	-92.2	.00150	627.0	.00000258	1.19877210
26.00	-49.7	-91.3	.00182	633.9	.00000118	1.19877328
25.00	-48.4	-91.5	.00184	644.7	.00000186	1.19877514
23.80	-47.7	-91.6	.00188	655.9	.00000226	1.19877741
22.60	-47.6	-91.6	.00198	666.2	.00000235	1.19877976
21.60	-48.3	-90.9	.00237	672.7	.00000221	1.19878197
20.50	-48.6	-91.2	.00237	681.8	.00000265	1.19878462
19.70	-47.7	-92.0	.00209	692.3	.00000182	1.19878644
18.90	-46.9	-91.0	.00264	703.2	.00000192	1.19878836
18.20	-46.0	-91.5	.00253	713.5	.00000183	1.19879019
17.50	-45.3	-90.9	.00292	723.7	.00000194	1.19879213
16.90	-45.2	-91.0	.00295	731.5	.00000179	1.19879392
16.30	-45.2	-90.9	.00314	739.1	.00000186	1.19879578
15.75	-44.7	-90.6	.00342	748.0	.00000183	1.19879761
15.20	-44.2	-90.7	.00345	757.3	.00000192	1.19879954
14.70	-44.2	-91.2	.00330	764.5	.00000171	1.19880125
14.30	-44.2	-91.5	.00322	770.6	.00000133	1.19880258
13.80	-44.0	-90.9	.00371	779.0	.00000176	1.19880433
13.40	-43.9	-89.8	.00467	786.1	.00000170	1.19880603
13.05	-44.0	-91.5	.00353	791.6	.00000146	1.19880749
12.70	-44.0	-90.7	.00413	797.7	.00000136	1.19880885
12.30	-44.0	-89.3	.00559	805.1	.00000198	1.19881083
11.95	-43.7	-89.8	.00524	812.9	.00000192	1.19881275
11.65	-44.0	-89.7	.00550	817.6	.00000164	1.19881439
11.30	-44.8	-90.6	.00477	821.9	.00000183	1.19881622
11.05	-44.5	-90.2	.00526	828.3	.00000127	1.19881749

WASHINGTON,D.C.		5/23/66	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1018.40	8.6	14.5	10.21952	280.3			
1010.00	10.0	10.7	8.02987	282.3	.07821134	.07821134	
1002.00	11.1	8.5	6.96970	284.1	.06122248	.13943382	
993.00	12.2	6.5	6.12288	285.9	.06011873	.19955255	
980.00	14.2	3.8	5.11281	289.1	.07452214	.27407469	
969.00	15.6	1.3	4.33394	291.3	.05301729	.32709198	
955.00	15.7	-3.0	3.12152	292.7	.05325305	.38034503	
938.00	14.6	-3.0	3.17838	293.0	.05464175	.43498679	
921.00	13.6	-3.0	3.23735	293.6	.05564645	.49063323	
906.00	12.5	.5	4.38293	293.8	.05831823	.54895146	
890.00	11.1	-2.3	3.54443	293.8	.06471288	.61366434	
873.00	9.8	-3.0	3.41633	294.2	.06037372	.67403807	
854.00	8.6	-2.3	3.69474	294.8	.06893352	.74297158	
838.00	7.4	-3.0	3.55983	295.1	.05922073	.80219232	
821.50	7.7	-4.8	3.10214	297.1	.05608273	.85827504	
807.50	9.2	-32.5	.22470	300.2	.02376305	.88203809	
793.50	9.7	-23.9	.55072	302.2	.00553867	.88757676	
779.00	9.4	-29.3	.32793	303.4	.00650018	.89407694	
764.00	8.8	-30.1	.30730	304.5	.00486144	.89893839	
749.00	8.2	-26.6	.44565	305.5	.00576238	.90470077	
734.00	7.3	-27.3	.42426	306.3	.00665747	.91135824	
720.00	6.5	-26.9	.45276	307.2	.00626434	.91762258	
705.80	5.7	-30.1	.33265	308.0	.00569017	.92331275	
693.00	4.7	-31.0	.30597	308.5	.00417058	.92748334	
680.00	3.7	-28.0	.42797	309.1	.00486793	.93235126	
675.00	2.5	-25.9	.53095	308.5	.00244620	.93479747	
655.00	1.3	-32.5	.27704	309.7	.00824475	.94304222	
641.20	.1	-26.9	.50844	310.2	.00553040	.94857262	
628.00	-1.2	-24.5	.66089	310.7	.00787508	.95644771	
614.00	-2.1	-24.5	.67598	311.6	.00954907	.96599677	
600.00	-3.3	-26.6	.55642	312.3	.00880285	.97479962	
587.60	-4.6	-25.2	.65612	312.6	.00767118	.98247080	
576.00	-5.9	-25.2	.66935	312.9	.00784460	.99031539	
562.00	-7.3	-30.5	.40105	313.4	.00764568	.99796107	
556.00	-7.1	-30.3	.41387	314.7	.00249462	1.00045569	
548.00	-8.4	-32.5	.33116	314.5	.00304091	1.00349660	
540.00	-8.9	-32.9	.32335	315.2	.00267147	1.00616807	
532.00	-9.4	-34.9	.26383	315.9	.00239664	1.00856471	
524.60	-9.9	-35.5	.24962	316.6	.00193852	1.01050323	
517.00	-10.4	-33.7	.30780	317.3	.00216141	1.01266465	
508.20	-11.0	-34.1	.30201	318.1	.00273792	1.01540257	
500.00	-11.5	-35.5	.26191	318.9	.00235923	1.01776180	
493.60	-12.0	-36.9	.22783	319.5	.00159912	1.01936091	
488.00	-12.5	-38.5	.19313	319.9	.00120273	1.02056365	
480.80	-13.3	-39.9	.16810	320.4	.00132695	1.02189060	
474.00	-13.9	-40.3	.16301	320.9	.00114872	1.02303931	
467.00	-14.5	-40.0	.17046	321.5	.00119093	1.02423024	
460.00	-15.5	-37.7	.22534	321.6	.00141355	1.02564380	
454.00	-16.4	-37.2	.23975	321.8	.00142375	1.02706754	
448.00	-17.1	-40.4	.16989	322.0	.00125398	1.02832152	
442.00	-18.1	-42.4	.13683	322.0	.00093894	1.02926046	
436.00	-18.8	-44.1	.11454	322.5	.00076950	1.03002995	
430.20	-19.6	-47.9	.07353	322.6	.00055653	1.03058648	
424.50	-20.1	-48.6	.06852	323.2	.00041310	1.03099959	
419.00	-20.9	-47.0	.08428	323.5	.00042875	1.03142834	
413.00	-21.7	-45.8	.09818	323.7	.00055854	1.03198688	

WASHINGTON, D.C.		5/23/66	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
407.70	-22.5	-45.7	.10070	323.9	.00053780	1.03252468	
402.30	-23.4	-45.9	.09950	324.0	.00055157	1.03307624	
396.30	-24.2	-46.0	.09976	324.3	.00060996	1.03368621	
391.00	-25.1	-45.9	.10237	324.4	.00054659	1.03423280	
385.20	-26.0	-46.4	.09881	324.6	.00059535	1.03482814	
380.00	-26.8	-47.2	.09067	324.8	.00050271	1.03533085	
374.40	-27.5	-48.3	.08050	325.2	.00048904	1.03581989	
369.00	-28.3	-48.9	.07607	325.5	.00043134	1.03625123	
364.00	-29.0	-48.8	.07801	326.0	.00039303	1.03664427	
358.80	-29.9	-47.8	.08922	326.1	.00044365	1.03708792	
353.70	-30.8	-47.8	.09051	326.2	.00046766	1.03755558	
349.00	-31.4	-48.8	.08136	326.5	.00041212	1.03796770	
343.20	-32.2	-50.1	.07027	327.0	.00044869	1.03841639	
338.00	-32.9	-50.7	.06661	327.6	.00036314	1.03877953	
333.00	-33.8	-50.8	.06686	327.7	.00034048	1.03912000	
328.00	-34.7	-50.4	.07103	328.0	.00035177	1.03947178	
323.40	-35.5	-48.6	.08995	328.1	.00037780	1.03984958	
319.00	-36.2	-47.1	.10937	328.5	.00044744	1.04029702	
314.60	-36.9	-47.0	.11225	328.8	.00049749	1.04079451	
310.00	-37.4	-47.4	.10846	329.4	.00051798	1.04131249	
306.00	-37.8	-49.4	.08649	330.0	.00039785	1.04171033	
302.00	-38.3	-52.4	.06030	330.7	.00029956	1.04200989	
297.20	-39.0	-52.9	.05736	331.2	.00028814	1.04229803	
293.00	-39.7	-53.1	.05694	331.5	.00024493	1.04254296	
288.70	-40.4	-53.3	.05594	331.9	.00024763	1.04279059	
284.60	-41.0	-57.0	.03540	332.4	.00019106	1.04298165	
280.50	-41.8	-57.4	.03413	332.7	.00014545	1.04312710	
277.00	-42.7	-57.0	.03601	332.6	.00012526	1.04325236	
272.20	-43.5	-56.3	.04060	333.1	.00018762	1.04343998	
268.00	-44.4	-57.7	.03431	333.2	.00016053	1.04360051	
263.30	-45.0	-58.0	.03320	334.0	.00016189	1.04376240	
259.00	-46.0	-58.6	.03146	334.2	.00014186	1.04390426	
254.70	-47.0	-61.2	.02240	334.3	.00011815	1.04402241	
250.40	-47.8	-60.6	.02465	334.7	.00010319	1.04412560	
246.20	-48.5	-61.5	.02228	335.3	.00010055	1.04422615	
242.00	-49.2	-61.8	.02159	335.9	.00009400	1.04432015	
238.50	-50.1	-61.8	.02211	336.0	.00007804	1.04439819	
235.00	-50.8	-62.1	.02137	336.4	.00007765	1.04447584	
231.50	-51.1	-62.2	.02149	337.3	.00007653	1.04455237	
228.00	-52.0	-62.3	.02161	337.3	.00007695	1.04462932	
224.50	-52.8	-62.6	.02111	337.7	.00007626	1.04470558	
221.10	-53.7	-62.7	.02102	337.7	.00007308	1.04477866	
217.60	-54.3	-62.6	.02178	338.3	.00007641	1.04485507	
214.00	-55.1	-62.1	.02347	338.7	.00008310	1.04493818	
210.80	-56.1	-62.6	.02248	338.6	.00007501	1.04501319	
207.40	-57.0	-63.1	.02114	338.9	.00007565	1.0450884	
204.20	-58.0	-63.0	.02168	338.7	.00006989	1.04515873	
201.00	-58.9	-62.8	.02267	338.9	.00007240	1.04523113	
198.10	-60.0	-63.2	.02191	338.5	.00006595	1.04529709	
194.80	-60.7	-63.4	.02165	339.0	.00007333	1.04537041	
192.00	-61.2	-63.3	.02217	339.7	.00006258	1.04543300	
188.50	-62.1	-63.9	.02089	339.9	.00007689	1.04550989	
185.40	-62.4	-64.7	.01892	341.1	.00006297	1.04557286	
182.00	-62.9	-65.2	.01802	342.1	.00006406	1.04563692	
179.40	-63.1	-65.5	.01742	343.2	.00004700	1.04568392	

WASHINGTON,D.C.		5/23/66	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
176.70	-63.9	-65.7	.01734	343.4	.00004788	1.04573180	
174.00	-64.9	-67.6	.01329	343.2	.00004220	1.04577400	
171.00	-64.7	-68.1	.01251	345.3	.00003949	1.04581349	
168.30	-62.4	-70.6	.00881	350.7	.00002937	1.04584286	
165.50	-61.4	-72.0	.00732	354.0	.00002305	1.04586591	
162.70	-62.4	-72.8	.00652	354.1	.00001977	1.04588568	
160.00	-62.6	-73.5	.00598	355.4	.00001721	1.04590289	
157.00	-62.6	-74.8	.00498	357.3	.00001675	1.04591964	
154.00	-62.4	-75.6	.00446	359.7	.00001442	1.04593407	
151.00	-62.1	-76.7	.00385	362.2	.00001270	1.04594676	
148.30	-61.2	-78.0	.00319	365.7	.00000969	1.04595645	
145.40	-60.2	-78.4	.00303	369.4	.00000921	1.04596566	
142.60	-60.0	-78.9	.00285	371.8	.00000839	1.04597405	
139.80	-60.2	-79.7	.00254	373.6	.00000769	1.04598173	
137.00	-60.0	-80.0	.00250	376.1	.00000720	1.04598893	
134.20	-59.3	-80.0	.00255	379.5	.00000721	1.04599614	
131.30	-59.1	-80.3	.00245	382.3	.00000739	1.04600354	
128.70	-58.9	-80.0	.00263	384.9	.00000674	1.04601027	
126.00	-58.9	-80.8	.00237	387.2	.00000687	1.04601714	
124.00	-59.1	-80.7	.00244	388.6	.00000490	1.04602204	
121.50	-59.3	-81.2	.00230	390.5	.00000603	1.04602808	
119.20	-59.3	-81.3	.00232	392.6	.00000542	1.04603350	
117.00	-59.8	-81.5	.00227	393.9	.00000514	1.04603864	
114.40	-60.0	-81.6	.00227	396.0	.00000602	1.04604466	
112.00	-60.5	-82.0	.00217	397.5	.00000542	1.04605009	
109.50	-60.7	-82.4	.00210	399.7	.00000544	1.04605553	
107.00	-60.9	-82.1	.00224	401.9	.00000553	1.04606105	
105.00	-61.2	-82.3	.00222	403.6	.00000454	1.04606560	
102.70	-61.4	-82.5	.00218	405.7	.00000516	1.04607075	
100.50	-60.9	-82.0	.00245	409.1	.00000519	1.04607594	
98.20	-60.7	-82.0	.00247	412.3	.00000577	1.04608171	
96.00	-61.2	-82.4	.00240	414.1	.00000545	1.04608716	
94.00	-61.7	-82.2	.00251	415.6	.00000501	1.04609217	
92.00	-61.9	-82.1	.00260	417.7	.00000522	1.04609738	
90.00	-61.9	-82.4	.00252	420.4	.00000522	1.04610260	
88.00	-60.9	-82.8	.00244	425.0	.00000505	1.04610765	
86.00	-60.0	-82.4	.00264	429.6	.00000517	1.04611282	
84.00	-59.1	-82.4	.00270	434.4	.00000544	1.04611826	
82.00	-58.9	-83.1	.00248	437.8	.00000528	1.04612353	
80.10	-59.1	-83.2	.00251	440.3	.00000483	1.04612836	
78.00	-59.1	-83.6	.00240	443.7	.00000525	1.04613361	
76.40	-58.9	-83.2	.00259	446.8	.00000407	1.04613768	
74.50	-58.9	-83.4	.00258	450.0	.00000501	1.04614268	
72.80	-58.9	-83.2	.00272	453.0	.00000459	1.04614727	
71.20	-58.9	-83.4	.00270	455.8	.00000443	1.04615170	
69.50	-58.9	-83.8	.00258	459.0	.00000457	1.04615627	
68.00	-58.7	-84.2	.00249	462.4	.00000387	1.04616015	
66.20	-57.8	-84.5	.00242	467.8	.00000450	1.04616465	
64.60	-57.6	-84.7	.00240	471.5	.00000393	1.04616858	
63.00	-58.0	-85.0	.00232	474.0	.00000384	1.04617243	
61.50	-58.2	-85.3	.00224	476.8	.00000349	1.04617591	
60.00	-57.8	-85.3	.00233	481.1	.00000349	1.04617940	
58.50	-57.4	-85.2	.00243	485.6	.00000364	1.04618303	
57.00	-56.7	-84.4	.00285	490.6	.00000402	1.04618706	
55.70	-56.5	-84.8	.00271	494.3	.00000368	1.04619074	

WASHINGTON,D.C.

5/23/66

1545Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
54.20	-57.0	-85.2	.00262	497.3	.00000407	1.04619481
53.00	-57.6	-85.3	.00260	499.0	.00000319	1.04619800
51.50	-57.0	-85.8	.00248	504.6	.00000387	1.04620187
50.20	-56.5	-86.1	.00243	509.3	.00000325	1.04620512
48.80	-56.3	-86.2	.00242	513.9	.00000346	1.04620858
47.40	-55.9	-86.4	.00241	519.1	.00000344	1.04621202
46.10	-54.9	-87.5	.00204	525.7	.00000295	1.04621497
44.80	-54.3	-87.6	.00206	531.5	.00000271	1.04621768
43.30	-54.5	-87.9	.00203	536.2	.00000313	1.04622081
42.00	-54.5	-88.0	.00206	540.9	.00000270	1.04622351
40.60	-53.7	-88.1	.00209	548.1	.00000295	1.04622646
39.30	-53.0	-88.0	.00220	555.1	.00000283	1.04622929
37.80	-52.8	-88.2	.00221	561.8	.00000337	1.04623266
36.50	-52.4	-89.1	.00195	568.4	.00000276	1.04623541
35.20	-52.0	-88.7	.00217	575.3	.00000273	1.04623814

WASHINGTON,D.C.	6/6/66	1615Z					
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1014.00	27.7	20.8	15.47211	299.7			
1011.00	26.3	19.1	13.87073	298.5	.04491232	.04491232	
1001.00	25.3	14.3	10.29640	298.4	.12330116	.16821349	
993.50	24.0	11.6	8.67249	297.7	.07258472	.24079821	
974.00	23.1	12.9	9.63982	298.5	.18218806	.42298627	
958.40	22.0	11.6	8.99470	298.7	.14831497	.57130124	
944.00	20.7	9.2	7.75335	298.7	.12304635	.69434759	
928.00	19.6	8.1	7.29288	299.1	.12282586	.81717345	
907.00	18.4	6.0	6.45339	299.8	.14728092	.96445437	
898.00	17.1	5.0	6.07987	299.3	.05755045	1.02200481	
880.00	15.9	2.2	5.11049	299.8	.10276817	1.12477298	
868.00	13.8	4.0	5.89545	298.8	.06738302	1.19215600	
850.00	12.7	3.1	5.63745	299.4	.10591397	1.29806997	
842.00	12.2	-2	4.47911	299.7	.04129192	1.33936189	
818.00	11.6	-7.4	2.50049	301.6	.08546421	1.42482610	
800.00	10.3	-6.8	2.68863	302.2	.04765499	1.47248109	
786.00	9.1	-5.6	3.02879	302.4	.04083851	1.51331960	
770.00	8.1	-6.8	2.79385	303.1	.04753153	1.56085113	
754.00	7.1	-7.4	2.71366	303.8	.04495910	1.60581023	
739.00	6.0	-8.4	2.51752	304.4	.04003440	1.64584462	
724.00	4.9	-7.4	2.82662	304.9	.04089884	1.68674347	
708.50	3.7	-7.9	2.75047	305.6	.04410437	1.73084784	
694.00	2.6	-16.0	1.35038	306.1	.03033783	1.76118566	
680.80	1.9	-18.5	1.08776	307.0	.01642008	1.77760574	
667.00	.8	-16.0	1.40517	307.6	.01755218	1.79515792	
653.00	.1	-19.8	1.00149	308.7	.01719032	1.81234825	
639.00	-.8	-20.8	.93540	309.5	.01383485	1.82618310	
624.00	-1.8	-20.8	.95792	310.6	.01448965	1.84067275	
611.00	-2.9	-18.8	1.17508	311.1	.01414742	1.85482016	
596.70	-4.4	-17.5	1.36925	311.5	.01856315	1.87338331	
582.00	-5.8	-18.8	1.23375	312.1	.01952241	1.89290573	
569.50	-6.3	-20.8	1.04975	313.4	.01456307	1.90746880	
557.00	-7.1	-22.8	.88074	314.5	.01231170	1.91978049	
543.00	-8.5	-23.9	.81222	315.1	.01209247	1.93187296	
529.00	-9.8	-26.8	.61898	315.9	.01022279	1.94209576	
516.50	-11.4	-26.6	.64936	316.1	.00808884	1.95018460	
504.00	-12.6	-27.7	.59271	316.9	.00792131	1.95810591	
494.70	-13.8	-29.0	.52844	317.1	.00531973	1.96342564	
480.00	-15.1	-28.4	.58175	318.3	.00832638	1.97175202	
469.30	-16.8	-26.8	.69781	318.2	.00698529	1.97873731	
459.00	-18.6	-26.4	.74861	318.0	.00760105	1.98633836	
447.80	-19.6	-26.1	.78552	319.0	.00876646	1.99510482	
437.00	-20.8	-27.3	.71557	319.7	.00827132	2.00337614	
425.00	-22.2	-32.0	.45219	320.5	.00714952	2.01052566	
414.00	-23.8	-31.0	.51257	320.8	.00541441	2.01594007	
404.20	-25.9	-31.2	.51477	320.3	.00513667	2.02107674	
393.80	-26.6	-44.0	.12766	321.7	.00340877	2.02448551	
388.00	-27.5	-44.3	.12461	321.9	.00074650	2.02523202	
382.00	-28.2	-43.4	.14065	322.5	.00081204	2.02604406	
376.00	-29.0	-41.8	.17328	322.9	.00096099	2.02700505	
369.00	-29.9	-39.6	.22615	323.4	.00142649	2.02843153	
363.80	-30.7	-42.1	.17170	323.7	.00105549	2.02948703	
358.00	-31.6	-39.6	.23310	323.9	.00119784	2.03068487	
352.90	-32.5	-39.1	.25124	324.0	.00126025	2.03194512	
347.50	-33.4	-41.4	.19565	324.3	.00123122	2.03317635	
342.20	-34.3	-42.3	.17998	324.5	.00101571	2.03419206	

WASHINGTON, D.C.		6/6/66	1615Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
337.00	-35.0	-40.8	.21681	325.0	.00105268	2.03524473	
331.70	-36.1	-39.2	.26333	324.9	.00129831	2.03654304	
326.00	-37.1	-39.3	.26382	325.2	.00153302	2.03807606	
321.00	-38.0	-43.4	.16739	325.4	.00110000	2.03917606	
316.00	-39.0	-44.8	.14522	325.5	.00079747	2.03997353	
311.00	-39.7	-43.3	.17515	325.9	.00081725	2.04079078	
306.00	-40.6	-42.9	.18789	326.2	.00092611	2.04171689	
300.00	-41.5	-43.9	.16985	326.8	.00109512	2.04281200	
294.70	-42.4	-45.4	.14426	327.1	.00084937	2.04366137	
289.30	-43.4	-46.0	.13798	327.5	.00077759	2.04443896	
284.50	-44.1	-46.5	.13187	328.0	.00066085	2.04509981	
280.00	-45.1	-48.0	.11176	328.1	.00055934	2.04569515	
275.00	-46.1	-50.3	.08624	328.3	.00050509	2.04616424	
271.00	-47.1	-51.1	.07917	328.3	.00033757	2.04650182	
267.00	-48.3	-51.2	.07861	327.9	.00032200	2.04682381	
262.50	-48.6	-51.1	.08174	329.0	.00036813	2.04719195	
258.00	-48.6	-54.3	.05539	330.6	.00031482	2.04750676	
253.30	-49.5	-58.7	.03153	331.1	.00020841	2.04771517	
249.00	-50.2	-59.2	.03026	331.7	.00013554	2.04785071	
244.40	-50.8	-58.9	.03173	332.6	.00014548	2.04799619	
240.00	-51.3	-59.7	.02933	333.5	.00013706	2.04813325	
236.50	-52.3	-58.4	.03512	333.5	.00011508	2.04824834	
232.50	-53.2	-57.5	.04019	333.7	.00015369	2.04840203	
229.00	-53.6	-59.2	.03258	334.5	.00012995	2.04853198	
225.00	-53.8	-60.7	.02734	335.9	.00012228	2.04865426	
221.00	-54.2	-61.3	.02555	337.0	.00010793	2.04876219	
217.00	-54.6	-61.3	.02602	338.2	.00010523	2.04886742	
213.40	-55.4	-61.7	.02498	338.6	.00009367	2.04896109	
209.00	-55.6	-62.8	.02191	340.3	.00010526	2.04906635	
206.00	-56.0	-63.5	.02022	341.0	.00006448	2.04913083	
202.00	-56.2	-64.0	.01930	342.6	.00008065	2.04921147	
198.20	-56.2	-66.9	.01287	344.5	.00006238	2.04927385	
194.30	-55.6	-67.8	.01161	347.4	.00004871	2.04932256	
190.00	-55.4	-68.0	.01143	350.0	.00005053	2.04937309	
186.70	-55.4	-69.1	.00988	351.7	.00003587	2.04940896	
183.00	-56.0	-69.7	.00924	352.8	.00003609	2.04944505	
179.60	-56.4	-69.9	.00915	354.0	.00003189	2.04947694	
176.00	-56.4	-71.4	.00745	356.0	.00003049	2.04950742	
172.70	-56.2	-72.0	.00701	358.3	.00002435	2.04953177	
169.40	-57.3	-71.9	.00722	358.5	.00002396	2.04955573	
166.00	-57.9	-71.8	.00752	359.5	.00002556	2.04958129	
162.50	-58.2	-73.4	.00603	361.3	.00002418	2.04960547	
159.20	-58.4	-73.8	.00579	363.1	.00001988	2.04962535	
156.00	-57.9	-74.4	.00538	366.0	.00001822	2.04964358	
152.90	-57.5	-74.6	.00532	368.8	.00001691	2.04966049	
150.00	-57.3	-75.2	.00488	371.2	.00001508	2.04967557	
146.80	-56.6	-77.3	.00359	374.6	.00001381	2.04968938	
143.80	-57.1	-79.3	.00265	376.1	.00000955	2.04969893	
141.00	-57.5	-78.9	.00287	377.4	.00000788	2.04970682	
138.20	-58.4	-78.9	.00293	378.1	.00000827	2.04971509	
135.50	-59.5	-77.1	.00402	378.2	.00000957	2.04972465	
132.70	-60.0	-77.5	.00384	379.6	.00001122	2.04973587	
130.00	-60.7	-78.5	.00334	380.6	.00000988	2.04974575	
127.00	-60.4	-78.9	.00322	383.6	.00001003	2.04975578	
124.00	-60.2	-79.6	.00293	386.6	.00000940	2.04976518	

WASHINGTON,D.C.		6/6/66	1615Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
121.50	-60.9	-80.7	.00249	387.6	.00000690	2.04977208	
119.00	-61.4	-81.3	.00229	389.0	.00000609	2.04977818	
116.20	-62.1	-80.2	.00284	390.3	.00000732	2.04978549	
113.50	-62.6	-78.7	.00369	392.0	.00000899	2.04979448	
111.00	-62.9	-80.0	.00304	394.0	.00000858	2.04980306	
108.50	-63.1	-83.6	.00173	396.1	.00000608	2.04980914	
106.00	-63.4	-83.1	.00192	398.3	.00000465	2.04981379	
103.00	-63.1	-82.3	.00224	402.1	.00000636	2.04982015	
100.80	-62.6	-81.6	.00261	405.5	.00000542	2.04982558	
98.60	-62.1	-82.6	.00224	409.1	.00000544	2.04983102	
96.30	-61.9	-83.6	.00192	412.3	.00000487	2.04983589	
94.00	-61.2	-84.3	.00176	416.6	.00000431	2.04984020	
91.70	-60.7	-84.6	.00172	420.5	.00000408	2.04984428	
89.20	-60.2	-84.3	.00185	424.8	.00000454	2.04984882	
87.20	-59.5	-84.2	.00192	428.9	.00000384	2.04985267	
85.00	-59.3	-84.4	.00191	432.6	.00000429	2.04985696	
82.90	-60.0	-84.6	.00188	434.2	.00000405	2.04986101	
81.00	-60.7	-85.1	.00179	435.7	.00000355	2.04986456	
79.00	-60.0	-85.7	.00165	440.3	.00000350	2.04986806	
77.00	-59.5	-85.8	.00166	444.5	.00000337	2.04987143	
75.10	-59.3	-85.8	.00171	448.1	.00000326	2.04987469	
73.20	-59.3	-85.7	.00178	451.4	.00000337	2.04987806	
71.30	-59.5	-85.8	.00180	454.3	.00000346	2.04988152	
69.60	-59.5	-85.9	.00181	457.5	.00000313	2.04988465	
67.70	-58.6	-85.5	.00198	463.1	.00000367	2.04988831	
65.90	-58.4	-85.6	.00200	467.1	.00000365	2.04989196	
64.00	-58.4	-85.7	.00203	471.1	.00000390	2.04989587	
62.00	-58.2	-85.8	.00207	475.8	.00000417	2.04990004	
60.20	-57.7	-85.6	.00219	480.8	.00000390	2.04990394	
58.40	-57.3	-85.7	.00223	486.0	.00000405	2.04990800	
56.70	-56.2	-85.9	.00219	492.5	.00000383	2.04991183	
55.00	-56.0	-86.5	.00205	497.3	.00000367	2.04991549	
53.60	-56.4	-86.9	.00194	500.0	.00000285	2.04991834	
52.00	-56.4	-86.8	.00207	504.4	.00000326	2.04992160	
50.50	-56.2	-87.0	.00203	509.1	.00000313	2.04992473	
49.50	-56.0	-87.4	.00194	512.5	.00000201	2.04992674	
48.20	-55.8	-87.7	.00189	516.9	.00000253	2.04992928	
46.90	-55.6	-87.5	.00201	521.5	.00000258	2.04993185	
45.60	-55.4	-87.4	.00210	526.2	.00000273	2.04993458	
44.10	-55.2	-87.6	.00210	531.7	.00000320	2.04993778	
42.80	-55.2	-87.7	.00213	536.3	.00000280	2.04994059	
41.50	-55.2	-87.9	.00212	541.0	.00000282	2.04994340	
40.20	-55.2	-88.0	.00215	546.0	.00000283	2.04994623	
39.00	-54.8	-88.4	.00207	551.8	.00000258	2.04994881	
37.60	-54.0	-88.9	.00196	559.6	.00000288	2.04995169	
36.40	-53.6	-89.3	.00189	565.8	.00000235	2.04995404	
35.30	-53.2	-89.4	.00191	571.8	.00000212	2.04995616	
34.20	-52.3	-90.1	.00173	579.5	.00000203	2.04995818	
33.10	-50.4	-88.8	.00227	589.8	.00000224	2.04996042	
31.90	-49.9	-88.9	.00232	597.5	.00000280	2.04996322	
30.70	-49.7	-88.6	.00254	604.6	.00000297	2.04996619	
29.50	-49.7	-88.4	.00274	611.5	.00000322	2.04996940	
28.40	-49.7	-88.2	.00295	618.2	.00000319	2.04997259	
27.30	-49.3	-87.9	.00323	626.2	.00000346	2.04997605	
26.30	-48.6	-87.8	.00341	634.9	.00000338	2.04997943	

WASHINGTON, D.C.		6/6/66	1615Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
25.20	-48.1	-87.4	.00380	644.2	.00000404	2.04998347	
24.20	-47.8	-87.7	.00377	652.7	.00000386	2.04998733	
23.10	-47.8	-89.4	.00292	661.4	.00000374	2.04999107	
22.25	-48.1	-89.6	.00292	667.5	.00000252	2.04999359	
21.30	-46.9	-89.6	.00305	679.4	.00000289	2.04999648	
20.40	-45.8	-90.4	.00273	691.4	.00000265	2.04999913	
19.50	-44.9	-91.0	.00258	702.9	.00000243	2.05000156	
18.80	-44.3	-90.2	.00308	712.3	.00000201	2.05000357	
18.10	-43.5	-90.4	.00308	722.5	.00000219	2.05000576	
17.40	-42.9	-90.0	.00346	732.7	.00000232	2.05000809	
16.80	-42.1	-89.5	.00394	742.6	.00000226	2.05001035	
16.20	-41.7	-88.9	.00456	751.8	.00000259	2.05001295	
15.70	-41.2	-88.7	.00488	760.1	.00000240	2.05001535	
15.10	-40.6	-88.9	.00489	770.6	.00000298	2.05001833	
14.60	-40.3	-89.1	.00488	779.0	.00000249	2.05002081	
14.10	-40.2	-88.9	.00524	787.3	.00000258	2.05002339	
13.60	-40.6	-90.5	.00402	793.9	.00000235	2.05002575	
13.20	-41.1	-89.6	.00492	799.2	.00000182	2.05002756	
12.70	-39.7	-89.1	.00561	812.7	.00000268	2.05003025	
12.20	-38.5	-88.9	.00605	826.2	.00000297	2.05003321	
11.80	-37.5	-88.8	.00638	837.7	.00000253	2.05003574	
11.35	-36.5	-88.8	.00663	850.7	.00000298	2.05003873	
10.90	-37.1	-88.6	.00715	858.5	.00000316	2.05004188	

WASHINGTON,D.C.		6/24/66	1525Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
998.00	27.5	17.5	12.71956	300.8		
983.00	26.5	17.5	12.91768	301.1	.19620258	.19620258
968.00	25.1	15.9	11.79400	301.1	.18911925	.38532183
953.00	24.2	17.5	13.33304	301.5	.19229801	.57761984
938.00	22.3	9.1	7.74921	300.9	.16134310	.73896293
923.00	21.4	15.9	12.38045	301.4	.15405288	.89301582
908.00	20.1	15.9	12.58911	301.5	.19109282	1.08410864
889.50	18.9	11.6	9.67169	302.0	.21011387	1.29422250
872.00	17.5	10.3	9.07541	302.3	.16738410	1.46160661
855.40	16.3	11.6	10.06348	302.7	.16209403	1.62370063
839.00	14.8	9.1	8.67635	302.8	.15680206	1.78050269
820.00	13.5	6.8	7.60154	303.4	.15779521	1.93829790
806.00	12.3	4.8	6.69957	303.6	.10215034	2.04044823
790.00	11.0	3.8	6.37709	304.0	.10674782	2.14719605
773.00	9.6	3.8	6.51881	304.4	.11185177	2.25904782
757.80	9.3	2.0	5.83940	305.8	.09583880	2.35488662
743.00	8.4	-1.3	4.63704	306.5	.07910748	2.43399410
727.30	7.7	-8.4	2.55946	307.6	.05764519	2.49163929
713.00	7.5	-4.8	3.58132	309.2	.04480247	2.53644176
700.00	7.4	-24.3	.60437	310.6	.02776214	2.56420390
685.50	6.5	-24.0	.63488	311.5	.00916785	2.57337175
670.00	5.3	-14.3	1.63722	312.3	.01796800	2.59133975
657.00	3.9	-17.5	1.23759	312.4	.01906750	2.61040725
642.70	2.9	-19.0	1.10314	313.2	.01707773	2.62748498
629.00	1.9	-21.0	.92852	314.0	.01420084	2.64168581
615.50	.5	-21.3	.91958	314.4	.01272917	2.65441498
603.00	-.4	-20.0	1.06534	315.2	.01265888	2.66707386
590.30	-1.6	-22.2	.87671	315.7	.01258369	2.67965755
577.00	-3.0	-24.0	.75440	316.2	.01106825	2.69072580
564.00	-3.6	-24.3	.75028	317.4	.00998001	2.70070581
558.00	-3.9	-30.8	.39168	318.1	.00349578	2.70420159
556.00	-4.3	-29.5	.44982	318.0	.00085866	2.70506026
545.00	-4.9	-29.2	.46928	319.0	.00515820	2.71021846
538.20	-5.6	-29.2	.47522	319.4	.00327681	2.71349527
531.00	-6.5	-26.6	.62864	319.5	.00405495	2.71755022
524.50	-7.0	-26.9	.62032	320.0	.00414194	2.72169216
518.00	-7.8	-29.5	.48285	320.2	.00365844	2.72535060
511.30	-8.6	-29.9	.46749	320.5	.00324857	2.72859918
504.00	-9.2	-21.0	1.15923	321.0	.00605866	2.73465784
497.00	-10.0	-17.5	1.63706	321.4	.00998670	2.74464454
490.00	-10.6	-16.8	1.78336	321.9	.01221572	2.75686026
483.70	-11.4	-13.9	2.36035	322.2	.01331902	2.77017927
477.00	-11.9	-15.6	2.04819	322.8	.01506995	2.78524922
471.00	-12.4	-26.6	.70881	323.4	.00843976	2.79368898
465.00	-13.0	-31.4	.44044	323.8	.00351809	2.79720707
459.00	-13.8	-23.1	1.03299	324.0	.00451048	2.80171755
453.00	-14.5	-19.0	1.56627	324.3	.00795688	2.80967443
447.20	-15.5	-20.3	1.39130	324.2	.00875193	2.81842636
441.00	-16.3	-20.3	1.41090	324.6	.00886407	2.82729043
435.00	-17.3	-22.8	1.12125	324.6	.00775145	2.83504188
429.00	-17.9	-22.8	1.13696	325.1	.00691283	2.84195471
423.30	-18.4	-24.0	1.02878	325.7	.00629829	2.84825300
417.50	-19.0	-27.1	.76074	326.2	.00529549	2.85354848
412.00	-19.9	-29.9	.58027	326.3	.00376299	2.85731147
406.00	-20.4	-33.1	.41863	327.0	.00305782	2.86036929
400.00	-21.3	-32.6	.45173	327.3	.00266433	2.86303362

WASHINGTON, D.C.		6/24/66	1525Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
394.00	-21.7	-29.5	.63496	328.2	.00332658	2.86636020	
388.20	-22.5	-26.9	.83841	328.4	.00435996	2.87072016	
383.00	-23.0	-24.5	1.07640	329.0	.00508009	2.87580025	
378.00	-23.8	-26.4	.90655	329.3	.00505851	2.88085876	
373.00	-24.3	-28.1	.77177	329.8	.00428140	2.88514017	
367.50	-25.2	-29.7	.66520	330.1	.00403230	2.88917246	
362.00	-26.2	-32.9	.47926	330.1	.00321147	2.89238393	
357.20	-26.7	-33.7	.44813	330.7	.00227113	2.89465506	
352.00	-27.6	-40.8	.20686	330.9	.00173770	2.89639276	
347.00	-28.3	-41.8	.18838	331.3	.00100824	2.89740101	
342.00	-28.9	-42.7	.17210	331.8	.00091957	2.89832057	
337.00	-29.6	-43.7	.15540	332.3	.00083545	2.89915602	
332.00	-30.4	-45.2	.13140	332.7	.00073162	2.89988764	
327.00	-31.4	-45.8	.12462	332.7	.00065310	2.90054074	
322.00	-32.4	-46.4	.11834	332.8	.00061980	2.90116054	
316.50	-33.6	-46.8	.11421	332.8	.00065257	2.90181310	
311.00	-34.7	-47.7	.10474	332.9	.00061439	2.90242749	
306.00	-35.7	-47.7	.10645	333.1	.00053872	2.90296622	
301.00	-36.8	-48.4	.09899	333.1	.00052406	2.90349028	
295.30	-37.4	-49.0	.09358	334.1	.00056002	2.90405029	
290.00	-38.2	-49.3	.09180	334.6	.00050128	2.90455157	
285.00	-39.4	-50.3	.08269	334.6	.00044514	2.90499671	
280.00	-40.4	-52.3	.06575	334.8	.00037868	2.90537539	
275.00	-41.3	-54.7	.04942	335.3	.00029381	2.90566920	
270.00	-42.1	-55.4	.04562	335.9	.00024244	2.90591164	
265.90	-43.3	-55.4	.04632	335.6	.00019231	2.90610395	
261.00	-44.4	-54.8	.05093	335.7	.00024311	2.90634707	
256.80	-45.2	-55.8	.04594	336.1	.00020757	2.90655464	
252.00	-46.2	-55.9	.04582	336.5	.00022472	2.90677936	
247.50	-47.0	-57.0	.04062	337.0	.00019847	2.90697783	
243.00	-48.1	-58.1	.03572	337.2	.00017527	2.90715310	
239.10	-48.7	-58.5	.03447	337.7	.00013965	2.90729275	
235.00	-49.8	-58.7	.03401	337.8	.00014326	2.90743601	
231.20	-50.7	-59.1	.03284	338.0	.00012961	2.90756562	
227.00	-51.8	-58.6	.03557	338.1	.00014658	2.90771221	
222.90	-52.6	-59.1	.03406	338.7	.00014566	2.90785787	
219.00	-53.5	-58.2	.03883	339.0	.00014503	2.90800290	
215.30	-54.5	-60.3	.02996	339.1	.00012985	2.90813275	
212.00	-55.5	-61.3	.02669	339.0	.00009538	2.90822813	
208.00	-56.3	-60.1	.03197	339.6	.00011972	2.90834785	
204.00	-57.4	-60.6	.03037	339.8	.00012723	2.90847507	
200.00	-58.3	-61.2	.02858	340.3	.00012031	2.90859538	
197.00	-59.6	-61.8	.02652	339.7	.00008433	2.90867971	
193.00	-60.3	-63.3	.02198	340.6	.00009896	2.90877867	
189.00	-61.8	-64.3	.01975	340.3	.00008515	2.90886381	
185.50	-62.5	-65.1	.01789	340.9	.00006719	2.90893100	
182.00	-63.3	-65.6	.01702	341.5	.00006233	2.90899333	
177.80	-64.6	-66.1	.01611	341.7	.00007099	2.90906432	
174.00	-65.1	-66.1	.01662	342.9	.00006345	2.90912777	
170.40	-65.9	-66.3	.01633	343.6	.00006050	2.90918827	
167.00	-67.4	-66.5	.01634	343.2	.00005665	2.90924492	
163.30	-68.0	-67.2	.01500	344.4	.00005916	2.90930408	
160.00	-68.9	-68.3	.01297	344.8	.00004709	2.90935117	
156.80	-68.9	-68.5	.01298	346.8	.00004235	2.90939352	
154.00	-69.2	-69.1	.01209	348.1	.00003581	2.90942933	

WASHINGTON, D.C.		6/24/66	1525Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
150.80	-68.6	-69.7	.01130	351.3	.00003819	2.90946752	
147.50	-67.7	-71.2	.00919	355.1	.00003450	2.90950201	
144.20	-67.7	-72.6	.00761	357.4	.00002828	2.90953030	
141.00	-67.7	-73.0	.00732	359.7	.00002436	2.90955466	
138.00	-68.0	-74.0	.00641	361.3	.00002101	2.90957567	
135.00	-67.7	-74.8	.00578	364.2	.00001864	2.90959431	
132.00	-65.7	-77.1	.00410	370.1	.00001511	2.90960942	
129.00	-63.8	-77.5	.00397	375.9	.00001234	2.90962176	
126.00	-64.3	-78.2	.00363	377.5	.00001162	2.90963338	
123.00	-64.6	-79.2	.00313	379.6	.00001034	2.90964372	
120.40	-63.5	-80.3	.00271	383.9	.00000773	2.90965146	
118.00	-62.2	-80.1	.00283	388.4	.00000678	2.90965824	
115.00	-62.5	-80.2	.00287	390.8	.00000872	2.90966696	
112.00	-62.7	-80.4	.00284	393.3	.00000875	2.90967570	
109.50	-63.0	-80.8	.00274	395.4	.00000711	2.90968281	
107.00	-63.3	-81.2	.00260	397.5	.00000681	2.90968962	
104.70	-62.5	-81.8	.00241	401.4	.00000587	2.90969549	
102.50	-62.0	-82.3	.00228	404.8	.00000525	2.90970074	
100.00	-61.0	-82.6	.00222	409.6	.00000572	2.90970646	
98.00	-60.8	-82.6	.00223	412.4	.00000453	2.90971099	
95.70	-60.6	-82.9	.00220	415.7	.00000520	2.90971619	
93.50	-60.1	-82.8	.00228	419.4	.00000502	2.90972121	
91.30	-59.6	-82.7	.00237	423.1	.00000522	2.90972643	
89.00	-58.7	-82.7	.00243	428.0	.00000562	2.90973204	
86.60	-59.4	-82.7	.00250	430.0	.00000602	2.90973806	
84.20	-59.9	-83.4	.00228	432.6	.00000584	2.90974391	
82.00	-59.6	-83.3	.00240	436.3	.00000525	2.90974915	
80.00	-59.4	-83.4	.00240	439.9	.00000490	2.90975405	
78.00	-58.9	-83.3	.00249	444.0	.00000499	2.90975904	
76.00	-58.9	-83.8	.00236	447.3	.00000495	2.90976399	
74.00	-58.7	-84.5	.00214	451.2	.00000459	2.90976858	
72.00	-58.5	-85.4	.00191	455.2	.00000413	2.90977271	
70.00	-58.3	-85.4	.00197	459.4	.00000395	2.90977666	
68.00	-57.8	-85.4	.00202	464.2	.00000407	2.90978073	
66.20	-56.8	-85.5	.00202	470.1	.00000371	2.90978444	
64.00	-55.7	-86.1	.00189	476.9	.00000438	2.90978882	
62.30	-55.3	-86.3	.00188	481.5	.00000326	2.90979208	
60.50	-54.5	-86.3	.00194	487.3	.00000350	2.90979558	
58.70	-53.9	-86.5	.00191	492.9	.00000352	2.90979910	
57.00	-53.3	-86.8	.00188	498.4	.00000328	2.90980238	
55.20	-54.3	-87.0	.00188	500.7	.00000344	2.90980582	
53.50	-55.5	-87.4	.00179	502.4	.00000317	2.90980899	
52.00	-55.3	-87.5	.00182	507.0	.00000276	2.90981175	
50.50	-54.7	-87.1	.00199	512.7	.00000291	2.90981466	
49.00	-54.7	-87.0	.00212	517.1	.00000314	2.90981780	
47.30	-54.7	-87.7	.00194	522.4	.00000350	2.90982130	
46.00	-53.3	-87.6	.00202	529.9	.00000262	2.90982392	
44.60	-51.6	-87.1	.00229	538.7	.00000307	2.90982699	
43.20	-51.4	-87.4	.00222	544.1	.00000322	2.90983021	
41.90	-51.2	-87.7	.00218	549.3	.00000292	2.90983313	
40.40	-50.0	-87.9	.00219	558.2	.00000334	2.90983647	
39.10	-48.7	-88.5	.00202	566.6	.00000279	2.90983926	
37.80	-49.8	-88.6	.00206	569.4	.00000270	2.90984195	
36.40	-50.5	-89.2	.00190	573.7	.00000282	2.90984477	
35.10	-50.5	-89.2	.00197	579.7	.00000256	2.90984733	

WASHINGTON,D.C.		6/24/66	1525Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
33.90	-50.5	-89.0	.00211	585.5	.00000249	2.90984982	
32.60	-49.1	-88.8	.00231	595.9	.00000292	2.90985274	
31.30	-47.9	-88.3	.00261	606.1	.00000325	2.90985599	
30.20	-47.7	-88.2	.00275	612.8	.00000301	2.90985900	
29.00	-47.5	-88.7	.00264	620.4	.00000329	2.90986229	
27.90	-46.9	-88.8	.00270	629.2	.00000298	2.90986528	
26.80	-46.4	-88.5	.00295	637.9	.00000316	2.90986843	
25.80	-46.7	-88.5	.00307	643.9	.00000307	2.90987150	
24.60	-47.7	-88.1	.00343	649.8	.00000398	2.90987548	
23.60	-45.7	-87.8	.00382	663.4	.00000370	2.90987918	
22.50	-43.8	-88.7	.00340	678.2	.00000404	2.90988322	
21.60	-43.2	-88.7	.00354	688.0	.00000319	2.90988640	
20.60	-42.8	-88.5	.00384	698.3	.00000376	2.90989016	
19.75	-43.2	-88.4	.00407	705.8	.00000343	2.90989359	
18.90	-43.5	-88.5	.00419	713.8	.00000358	2.90989716	
18.10	-43.3	-88.6	.00430	723.2	.00000346	2.90990062	
17.25	-43.2	-88.5	.00459	733.7	.00000384	2.90990447	
16.50	-42.2	-89.0	.00433	746.0	.00000341	2.90990788	
15.75	-41.0	-89.0	.00454	760.0	.00000338	2.90991126	
15.05	-40.3	-89.2	.00459	772.4	.00000325	2.90991451	
14.35	-39.5	-89.2	.00482	785.5	.00000335	2.90991786	
13.80	-38.8	-89.2	.00501	796.8	.00000276	2.90992062	
13.20	-38.4	-88.9	.00560	808.5	.00000325	2.90992387	
12.60	-37.8	-88.8	.00597	821.3	.00000353	2.90992740	
12.10	-37.4	-89.3	.00561	832.4	.00000295	2.90993035	
11.65	-34.3	-89.6	.00554	852.4	.00000255	2.90993290	
11.20	-31.4	-89.5	.00586	872.3	.00000261	2.90993550	
10.75	-32.5	-89.5	.00610	878.7	.00000274	2.90993825	
10.30	-33.7	-89.8	.00604	885.0	.00000279	2.90994103	

WASHINGTON,D.C.		7/21/66	1607Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
942.00	16.8	3.3	5.16453	295.0	.07217050	.07217050	
928.00	15.8	2.5	4.93938	295.2	.05523050	.12740099	
916.50	14.7	1.0	4.47386	295.1	.05675419	.18415518	
904.50	13.9	1.7	4.79603	295.4	.05990842	.24406360	
892.00	12.9	1.0	4.59765	295.6	.05516596	.29922956	
880.00	12.0	.2	4.41283	295.7	.04528935	.34451891	
870.00	11.0	.2	4.46392	295.7	.05803788	.40255679	
857.00	9.8	-.5	4.28644	295.7	.05286214	.45541893	
845.00	8.9	-.5	4.34774	296.0	.04912508	.50454400	
834.00	8.3	-.5	4.40549	296.5	.04188360	.54642761	
823.00	8.2	-.5	3.05744	297.4	.02350278	.56993039	
813.00	8.0	-12.8	1.54913	298.3	.01253413	.58246452	
802.00	7.4	-21.6	.68424	298.8	.00821829	.59068280	
790.00	6.8	-22.2	.65809	299.5	.00694716	.59762996	
780.00	5.8	-21.6	.70356	299.5	.00638960	.60401957	
770.00	5.2	-24.3	.54881	300.0	.00459090	.60861047	
760.00	5.4	-28.8	.35101	301.3	.00310536	.61171582	
750.00	5.2	-31.9	.25764	302.2	.00377454	.61549036	
740.00	4.9	-26.0	.48217	303.1	.00453638	.62002674	
731.50	4.4	-24.5	.56387	303.5	.00573730	.62576404	
723.00	4.0	-21.6	.75909	304.0	.00657344	.63233748	
714.00	3.7	-23.0	.67246	304.8	.00697486	.63931234	
705.00	3.2	-20.8	.84651	305.4	.01093607	.65024841	
695.50	2.7	-15.5	1.40978	306.0	.01352626	.66377467	
686.00	2.4	-15.9	1.38091	306.9	.01235461	.67612928	
677.00	2.1	-16.6	1.30966	307.7	.01121184	.68734112	
668.00	1.4	-18.3	1.13204	308.1	.00864486	.69598599	
660.00	.9	-19.9	.98596	308.6	.00776072	.70374671	
652.00	.1	-20.8	.91543	308.7	.00766915	.71141586	
643.50	-.5	-21.6	.85300	309.3	.00697877	.71839462	
635.00	-1.3	-23.0	.75623	309.5	.00613515	.72452977	
626.50	-2.1	-24.5	.65847	309.8	.00483538	.72936516	
618.50	-2.6	-26.9	.52620	310.4	.00355047	.73291562	
611.00	-2.9	-29.6	.40166	311.1	.00330417	.73621979	
603.50	-3.4	-28.4	.46184	311.6	.00448586	.74070565	
595.00	-4.1	-26.4	.57256	312.1	.00440465	.74511030	
587.00	-4.6	-27.8	.50659	312.7	.00368203	.74879234	
580.00	-5.2	-27.6	.52439	313.1	.00448272	.75327505	
571.50	-5.6	-28.0	.50928	313.9	.00371733	.75699238	
563.50	-6.0	-30.4	.40147	314.7	.00334178	.76033416	
555.00	-6.1	-31.4	.36911	316.0	.00266144	.76299560	
547.00	-6.5	-34.0	.28295	316.8	.00160393	.76459953	
540.00	-6.9	-39.0	.16616	317.5	.00134319	.76594272	
532.50	-7.4	-38.1	.18487	318.2	.00163876	.76758148	
525.00	-8.3	-35.8	.24340	318.4	.00221539	.76979686	
517.00	-9.3	-34.0	.29937	318.6	.00201114	.77180800	
510.00	-9.9	-35.3	.26375	319.1	.00186130	.77366930	
502.50	-10.9	-37.0	.22268	319.2	.00161308	.77528238	
495.00	-11.8	-38.1	.19888	319.5	.00154127	.77682365	
487.00	-12.8	-39.2	.17874	319.7	.00121289	.77803655	
480.00	-13.8	-40.3	.16088	319.8	.00109369	.77913024	
473.00	-15.1	-41.3	.14536	319.6	.00091948	.78004971	
466.20	-16.2	-43.1	.11967	319.6	.00074211	.78079182	
460.00	-17.3	-43.6	.11493	319.4	.00094472	.78173654	
453.00	-18.3	-41.4	.14959	319.5	.00109290	.78282943	
446.00	-19.3	-41.2	.15642	319.7			

WASHINGTON, D.C.		7/21/66	1607Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
439.00	-20.5	-41.7	.15006	319.7	.00109458	.78392401	
432.50	-21.3	-42.7	.13622	320.0	.00094940	.78487341	
426.20	-22.3	-42.9	.13451	320.0	.00087018	.78574359	
420.00	-23.5	-43.1	.13284	319.9	.00084567	.78658926	
414.00	-24.5	-44.0	.12103	319.9	.00077714	.78736641	
408.00	-25.5	-44.8	.11205	319.9	.00071351	.78807992	
402.00	-26.4	-45.3	.10803	320.1	.00067370	.78875361	
395.00	-27.6	-45.4	.10851	320.2	.00077336	.78952697	
389.00	-28.5	-46.1	.10084	320.4	.00064087	.79016784	
383.00	-29.4	-46.1	.10242	320.6	.00062221	.79079005	
377.00	-30.6	-45.3	.11519	320.5	.00066614	.79145619	
371.50	-31.6	-45.4	.11538	320.6	.00064701	.79210320	
365.50	-32.4	-45.9	.11006	321.0	.00069010	.79279330	
360.00	-33.6	-45.9	.11174	320.8	.00062238	.79341568	
354.50	-34.7	-47.0	.09893	320.7	.00059114	.79400682	
349.00	-35.6	-47.7	.09342	321.0	.00053976	.79454659	
343.50	-36.5	-48.0	.09154	321.1	.00051902	.79506561	
338.00	-37.3	-48.3	.08870	321.6	.00050575	.79557136	
332.50	-38.1	-48.4	.08908	321.9	.00049886	.79607022	
327.00	-39.2	-48.2	.09276	322.0	.00051025	.79658046	
322.50	-40.1	-48.5	.09074	322.1	.00042129	.79700175	
317.50	-41.0	-49.0	.08690	322.3	.00045314	.79745489	
312.50	-42.0	-49.7	.08138	322.2	.00042927	.79788417	
308.00	-43.0	-50.0	.07976	322.2	.00036995	.79825412	
303.00	-43.9	-50.4	.07657	322.4	.00039877	.79865289	
298.00	-44.6	-51.1	.07193	323.0	.00037880	.79903169	
293.00	-45.4	-51.1	.07316	323.4	.00037012	.79940180	
288.00	-46.1	-51.3	.07196	324.1	.00037019	.79977199	
283.00	-46.8	-52.3	.06485	324.7	.00034900	.80012099	
278.30	-47.3	-53.0	.06043	325.5	.00030041	.80042140	
273.00	-47.8	-53.8	.05592	326.6	.00031461	.80073601	
269.00	-49.0	-54.3	.05266	326.2	.00022158	.80095759	
264.50	-49.7	-54.7	.05134	326.7	.00023878	.80119637	
260.00	-50.8	-54.8	.05115	326.7	.00023530	.80143167	
255.50	-51.6	-55.1	.05043	327.2	.00023320	.80166487	
251.50	-52.6	-55.7	.04713	327.2	.00019908	.80186395	
247.00	-53.3	-56.6	.04284	327.8	.00020654	.80207050	
242.00	-53.5	-57.1	.04112	329.4	.00021417	.80228467	
237.50	-53.9	-57.8	.03785	330.6	.00018129	.80246596	
232.50	-54.3	-59.0	.03291	332.0	.00018048	.80264644	
228.00	-54.6	-59.9	.02978	333.5	.00014392	.80279036	
223.00	-52.9	-56.7	.04647	338.1	.00019452	.80298488	
218.50	-51.2	-63.1	.02016	342.7	.00015298	.80313785	
214.50	-50.5	-66.3	.01306	345.7	.00006780	.80320565	
210.00	-49.7	-69.5	.00835	348.9	.00004914	.80325480	
206.00	-49.6	-72.2	.00568	351.2	.00002861	.80328341	
202.00	-49.4	-74.4	.00414	353.4	.00002003	.80330344	
197.50	-49.2	-76.6	.00297	356.0	.00001630	.80331974	
193.50	-49.2	-76.6	.00303	358.1	.00001225	.80333199	
190.00	-49.4	-76.5	.00316	359.7	.00001104	.80334303	
186.50	-49.7	-76.8	.00304	361.0	.00001107	.80335410	
182.50	-49.9	-77.1	.00300	362.9	.00001232	.80336642	
178.50	-50.1	-77.0	.00310	364.9	.00001246	.80337888	
175.00	-50.5	-77.4	.00296	366.4	.00001082	.80338970	
171.00	-50.8	-78.1	.00272	368.2	.00001158	.80340128	

WASHINGTON, D.C.		7/21/66	1607Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
167.20	-51.4	-78.1	.00278	369.7	.00001067	.80341195	
163.50	-51.6	-77.9	.00295	371.7	.00001082	.80342276	
160.00	-51.6	-78.6	.00268	374.0	.00001004	.80343281	
156.50	-51.6	-78.7	.00270	376.4	.00000960	.80344240	
153.00	-51.8	-79.2	.00254	378.5	.00000936	.80345176	
149.50	-52.6	-80.0	.00227	379.7	.00000858	.80346034	
146.00	-52.8	-79.9	.00235	381.9	.00000824	.80346859	
143.00	-52.9	-80.0	.00237	383.9	.00000723	.80347581	
139.50	-53.1	-80.1	.00240	386.2	.00000851	.80348432	
136.50	-53.1	-80.6	.00227	388.7	.00000715	.80349147	
133.20	-53.5	-80.3	.00245	390.7	.00000794	.80349942	
130.00	-54.1	-78.3	.00346	392.3	.00000964	.80350906	
127.00	-54.8	-78.5	.00341	393.8	.00001051	.80351956	
124.00	-54.8	-81.3	.00220	396.5	.00000858	.80352814	
121.00	-54.8	-80.9	.00240	399.3	.00000703	.80353518	
118.30	-55.0	-80.3	.00276	401.5	.00000711	.80354229	
115.50	-55.4	-79.1	.00341	403.5	.00000881	.80355109	
112.70	-55.6	-79.0	.00358	406.0	.00000997	.80356106	
110.00	-55.8	-80.0	.00308	408.4	.00000916	.80357023	
107.40	-56.7	-80.3	.00300	409.6	.00000806	.80357829	
105.00	-56.7	-80.6	.00292	412.2	.00000724	.80358553	
102.50	-55.6	-81.5	.00259	417.1	.00000702	.80359255	
100.00	-55.4	-81.8	.00252	420.5	.00000650	.80359904	
97.40	-55.2	-82.0	.00252	424.1	.00000666	.80360571	
95.00	-55.4	-81.3	.00291	426.7	.00000663	.80361234	
92.60	-55.4	-80.7	.00327	429.8	.00000755	.80361989	
90.00	-55.4	-80.5	.00349	433.3	.00000896	.80362885	
87.70	-55.0	-80.9	.00332	437.4	.00000799	.80363683	
85.40	-54.8	-81.7	.00299	441.1	.00000739	.80364423	
83.00	-55.0	-82.3	.00279	444.3	.00000708	.80365130	
80.80	-55.2	-82.6	.00272	447.3	.00000618	.80365749	
78.50	-54.6	-82.5	.00288	452.3	.00000656	.80366404	
76.00	-53.5	-82.4	.00301	458.6	.00000750	.80367154	
74.00	-52.9	-82.9	.00285	463.4	.00000598	.80367751	
72.30	-52.6	-83.5	.00264	467.3	.00000475	.80368227	
70.40	-52.6	-83.7	.00260	470.8	.00000507	.80368733	
68.60	-52.4	-83.4	.00282	474.8	.00000496	.80369230	
66.70	-52.6	-84.0	.00262	478.1	.00000528	.80369757	
64.90	-52.8	-84.0	.00266	481.5	.00000484	.80370241	
62.90	-52.2	-83.9	.00282	487.1	.00000559	.80370800	
61.00	-51.6	-84.0	.00283	492.6	.00000547	.80371347	
59.30	-51.8	-84.3	.00278	496.2	.00000486	.80371833	
57.50	-52.0	-84.0	.00304	500.2	.00000533	.80372366	
56.00	-51.8	-83.6	.00331	504.4	.00000486	.80372852	
54.40	-51.6	-83.5	.00351	509.0	.00000556	.80373408	
52.50	-51.4	-83.5	.00358	514.7	.00000687	.80374095	
50.80	-51.2	-84.0	.00344	520.0	.00000608	.80374703	
49.10	-50.8	-84.2	.00341	525.9	.00000593	.80375296	
47.40	-50.7	-84.0	.00364	531.7	.00000611	.80375907	
45.80	-50.5	-84.3	.00360	537.4	.00000590	.80376497	
44.40	-49.9	-84.5	.00361	543.5	.00000514	.80377011	
42.80	-49.9	-84.7	.00358	549.3	.00000586	.80377597	
41.40	-50.3	-84.8	.00364	553.6	.00000516	.80378112	
40.00	-49.9	-85.3	.00349	560.0	.00000508	.80378620	
38.70	-49.4	-85.6	.00339	566.7	.00000456	.80379076	

WASHINGTON, D.C.		7/21/66	1607Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
37.50	-49.2	-85.7	.00345	572.2	.00000417	.80379494	
36.20	-49.0	-86.9	.00289	578.5	.00000420	.80379914	
34.80	-48.8	-86.3	.00337	585.5	.00000447	.80380361	
33.30	-48.7	-86.9	.00314	593.4	.00000498	.80380858	
31.60	-48.0	-86.6	.00348	604.2	.00000574	.80381432	
30.20	-47.1	-86.7	.00358	614.5	.00000504	.80381936	
28.60	-45.9	-88.9	.00258	627.4	.00000502	.80382438	
27.00	-44.9	-87.9	.00327	640.6	.00000477	.80382915	
25.90	-45.2	-88.4	.00312	647.3	.00000358	.80383272	
24.60	-45.6	-88.9	.00300	655.9	.00000405	.80383678	
23.50	-45.1	-89.5	.00281	666.0	.00000325	.80384003	
22.00	-44.1	-88.1	.00387	681.6	.00000511	.80384514	
21.30	-43.6	-89.9	.00287	689.4	.00000240	.80384754	
20.30	-43.3	-90.1	.00289	699.9	.00000294	.80385047	
19.50	-43.0	-90.3	.00290	708.9	.00000235	.80385283	
18.60	-42.8	-90.7	.00286	719.1	.00000264	.80385546	
17.85	-42.8	-90.7	.00298	727.6	.00000222	.80385768	
17.15	-42.8	-90.8	.00304	735.9	.00000215	.80385983	
16.45	-42.5	-91.1	.00298	745.8	.00000215	.80386198	
15.80	-42.2	-91.5	.00291	755.4	.00000195	.80386393	
15.20	-41.0	-91.9	.00278	767.9	.00000173	.80386566	
14.60	-39.8	-92.0	.00283	780.9	.00000171	.80386737	
14.00	-39.3	-92.5	.00270	791.8	.00000168	.80386905	
13.50	-39.2	-93.1	.00250	800.6	.00000133	.80387038	
13.00	-38.9	-92.9	.00272	810.3	.00000133	.80387171	
12.60	-38.7	-93.6	.00244	818.0	.00000104	.80387275	
12.10	-38.1	-93.7	.00248	829.7	.00000125	.80387400	
11.70	-37.7	-93.9	.00250	839.2	.00000101	.80387501	
11.30	-36.8	-94.4	.00234	850.7	.00000098	.80387600	
10.85	-36.1	-94.3	.00250	863.2	.00000110	.80387710	
10.50	-35.4	-94.6	.00240	874.0	.00000086	.80387796	
10.15	-35.3	-94.9	.00235	883.0	.00000083	.80387880	
9.75	-35.0	-96.8	.00171	894.2	.00000082	.80387962	
9.43	-34.9	-97.2	.00162	903.3	.00000054	.80388016	
9.13	-34.4	-97.7	.00153	913.3	.00000048	.80388063	

WASHINGTON, D.C.	8/6/66	1450Z					
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1000.00	25.0	5.5	5.67508	298.2			
981.00	24.1	7.7	6.74842	298.9	.12043135	.12043135	
967.00	23.1	5.5	5.87057	299.2	.09013528	.21056662	
952.00	22.2	5.5	5.96396	299.6	.09057000	.30113663	
937.00	21.1	4.5	5.65037	299.8	.08888477	.39002140	
923.00	20.1	3.5	5.34765	300.0	.07855697	.46857837	
910.00	19.0	4.5	5.81958	300.2	.07406811	.54264648	
897.00	18.2	4.5	5.90473	300.5	.07776296	.62040944	
884.00	17.0	1.7	4.89846	300.6	.07165349	.69206293	
871.00	16.3	.8	4.66443	301.1	.06342706	.75548999	
858.00	15.3	.0	4.46208	301.4	.06053272	.81602271	
847.00	14.5	.0	4.52045	301.7	.05041195	.86643466	
834.00	13.6	-1.6	4.02360	302.0	.05666947	.92310414	
820.00	12.5	-1.6	4.09275	302.3	.05797364	.98107778	
807.00	11.7	-.8	4.43346	302.8	.05655114	1.03762892	
796.00	10.9	-.8	4.49517	303.2	.05010946	1.08773838	
784.30	10.4	-3.8	3.55341	304.0	.04804489	1.13578327	
773.00	9.5	-3.1	3.82487	304.3	.04253784	1.17832111	
762.00	8.8	-3.1	3.88043	304.7	.04324383	1.22156493	
751.00	8.2	-3.1	3.93762	305.3	.04387663	1.26544157	
740.00	7.4	-3.8	3.76742	305.8	.04324242	1.30868399	
729.50	6.3	-4.5	3.60061	305.8	.03947142	1.34815541	
719.00	5.4	-5.1	3.45481	306.1	.03779674	1.38595214	
709.00	4.5	-7.6	2.81837	306.4	.03200589	1.41795804	
700.00	4.0	-12.4	1.86715	306.9	.02151507	1.43947311	
689.00	3.1	-17.1	1.22528	307.3	.01735540	1.45682850	
678.00	2.6	-16.7	1.29267	308.1	.01413126	1.47095977	
668.00	1.9	-21.4	.84419	308.7	.01090229	1.48186205	
658.00	1.6	-23.2	.71487	309.7	.00795433	1.48981638	
649.00	1.2	-23.5	.70456	310.4	.00651774	1.49633412	
639.00	.8	-22.0	.82998	311.3	.00782923	1.50416335	
629.00	.5	-23.5	.72699	312.4	.00794366	1.51210701	
620.00	.2	-28.5	.44723	313.4	.00539179	1.51749881	
611.50	-.2	-27.0	.52618	314.2	.00422141	1.52172022	
603.50	-.8	-24.1	.71595	314.6	.00506990	1.52679011	
595.50	-1.4	-24.4	.70511	315.2	.00580025	1.53259036	
587.70	-2.1	-24.6	.69459	315.6	.00557023	1.53816059	
580.00	-2.6	-24.4	.72398	316.1	.00557293	1.54373352	
573.20	-3.4	-23.8	.77494	316.3	.00520030	1.54893382	
566.00	-4.2	-23.2	.83122	316.5	.00590014	1.55483396	
559.80	-5.1	-23.5	.81697	316.4	.00521363	1.56004760	
553.30	-6.0	-24.9	.71834	316.4	.00509156	1.56513916	
547.00	-6.6	-25.7	.66986	316.7	.00446203	1.56960119	
541.00	-7.4	-26.7	.61042	316.7	.00391920	1.57352039	
534.00	-7.7	-29.1	.48388	317.6	.00390820	1.57742859	
527.00	-8.4	-31.9	.36655	317.9	.00303723	1.58046582	
520.50	-8.9	-32.7	.34103	318.4	.00234655	1.58281237	
513.00	-9.5	-33.3	.32555	319.1	.00255066	1.58536303	
507.00	-9.8	-34.8	.28108	319.7	.00185703	1.58722006	
501.00	-10.1	-36.0	.24921	320.5	.00162333	1.58884339	
495.00	-10.5	-38.2	.19638	321.1	.00136402	1.59020741	
489.00	-11.1	-40.0	.16271	321.5	.00109924	1.59130666	
484.00	-11.5	-41.0	.14702	322.0	.00079012	1.59209678	
479.00	-12.0	-41.6	.13951	322.3	.00073095	1.59282772	
473.50	-12.7	-41.4	.14338	322.4	.00079381	1.59362154	
469.00	-13.5	-41.4	.14475	322.4	.00066151	1.59428304	

WASHINGTON, D.C.		8/6/66	1450Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
462.30	-14.0	-42.2	.13389	323.1	.00095250	1.59523554	
456.50	-14.4	-40.7	.16086	323.8	.00087221	1.59610775	
451.00	-15.3	-40.0	.17643	323.8	.00094645	1.59705420	
445.00	-16.0	-39.7	.18472	324.1	.00110553	1.59815973	
439.00	-16.4	-39.6	.19039	324.9	.00114830	1.59930803	
433.00	-17.0	-42.0	.14744	325.4	.00103419	1.60034221	
427.00	-17.5	-43.9	.11968	326.0	.00081770	1.60115992	
421.00	-18.0	-43.5	.12673	326.7	.00075428	1.60191420	
415.00	-18.8	-42.4	.14698	327.1	.00083786	1.60275206	
409.00	-19.4	-40.9	.17669	327.6	.00099081	1.60374287	
403.00	-19.9	-42.4	.15136	328.4	.00100420	1.60474707	
397.00	-20.1	-47.2	.08639	329.4	.00072777	1.60547484	
392.50	-20.5	-45.3	.10985	330.0	.00045054	1.60592538	
388.00	-21.3	-36.5	.30451	330.1	.00095132	1.60687670	
383.50	-21.9	-31.7	.51445	330.4	.00188026	1.60875696	
379.00	-22.9	-32.5	.47841	330.2	.00227951	1.61103646	
374.20	-23.8	-35.1	.36663	330.2	.00206946	1.61310592	
370.00	-24.6	-32.9	.47025	330.3	.00179330	1.61489922	
365.00	-25.3	-31.5	.55245	330.6	.00260893	1.61750814	
360.00	-26.2	-31.3	.57259	330.7	.00286999	1.62037814	
355.00	-26.9	-31.3	.58066	331.1	.00294194	1.62332007	
350.00	-27.4	-29.1	.73857	331.8	.00336535	1.62668543	
343.50	-28.2	-29.1	.75256	332.5	.00494502	1.63163045	
338.00	-28.9	-31.5	.59663	333.0	.00378597	1.63541642	
333.20	-29.6	-31.5	.60523	333.4	.00294331	1.63835973	
328.00	-30.4	-32.9	.53052	333.8	.00301319	1.64137292	
324.00	-30.8	-33.1	.52601	334.5	.00215617	1.64352909	
320.00	-31.4	-33.7	.50111	334.7	.00209616	1.64562525	
316.00	-32.1	-35.3	.42584	335.0	.00189173	1.64751698	
311.50	-33.1	-39.3	.27735	335.1	.00161447	1.64913145	
307.00	-34.0	-41.7	.21443	335.1	.00112909	1.65026054	
302.00	-34.8	-42.7	.19307	335.5	.00103955	1.65130009	
297.30	-35.8	-43.1	.18756	335.7	.00091273	1.65221281	
292.50	-36.6	-41.7	.22507	336.0	.00101049	1.65322331	
288.00	-37.4	-42.6	.20556	336.5	.00098866	1.65421197	
283.00	-38.4	-45.3	.15236	336.7	.00091304	1.65512501	
279.00	-39.2	-47.0	.12620	336.9	.00056848	1.65569349	
275.00	-40.3	-46.7	.13325	336.8	.00052947	1.65622295	
270.50	-41.2	-47.1	.12850	337.0	.00060093	1.65682389	
266.00	-42.1	-48.8	.10634	337.3	.00053914	1.65736303	
261.70	-43.2	-48.1	.11812	337.3	.00049242	1.65785545	
257.00	-44.1	-48.6	.11286	337.7	.00055389	1.65840934	
253.00	-44.9	-49.0	.10904	338.0	.00045286	1.65886220	
249.00	-46.1	-49.2	.10807	337.8	.00044307	1.65930527	
245.00	-47.1	-50.1	.09828	337.9	.00042111	1.65972638	
241.00	-48.3	-50.7	.09294	337.7	.00039023	1.66011661	
237.20	-49.0	-51.1	.08999	338.2	.00035465	1.66047126	
233.00	-50.0	-51.7	.08536	338.3	.00037575	1.66084701	
229.20	-51.3	-52.3	.07997	338.0	.00032054	1.66116755	
225.00	-52.0	-53.0	.07431	338.6	.00033060	1.66149814	
221.30	-53.2	-53.7	.06979	338.5	.00027201	1.66177015	
217.50	-53.4	-55.1	.05878	339.8	.00024927	1.66201942	
213.70	-53.6	-61.5	.02576	341.3	.00016390	1.66218331	
210.00	-54.0	-64.0	.01853	342.3	.00008361	1.66226692	
206.70	-54.2	-65.3	.01548	343.6	.00005725	1.66232418	

WASHINGTON, D.C.		8/6/66	1450Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
203.00	-54.4	-65.4	.01560	345.1	.00005867	1.66238284	
199.30	-55.0	-65.1	.01669	345.9	.00006096	1.66244380	
195.50	-55.2	-65.5	.01605	347.5	.00006346	1.66250727	
191.80	-55.2	-64.2	.01970	349.4	.00006747	1.66257474	
188.00	-54.8	-66.2	.01514	352.1	.00006753	1.66264227	
184.60	-54.0	-69.5	.00946	355.2	.00004265	1.66268492	
181.00	-53.2	-69.7	.00945	358.5	.00003472	1.66271964	
177.50	-52.6	-74.2	.00482	361.4	.00002548	1.66274512	
174.00	-52.0	-74.9	.00443	364.4	.00001651	1.66276163	
171.00	-52.2	-76.4	.00353	365.9	.00001219	1.66277382	
167.50	-52.6	-77.4	.00310	367.5	.00001183	1.66278565	
164.20	-53.2	-78.0	.00286	368.6	.00001003	1.66279568	
161.00	-53.6	-78.3	.00279	370.0	.00000922	1.66280490	
157.70	-53.8	-78.6	.00269	371.9	.00000922	1.66281413	
154.00	-54.0	-78.7	.00273	374.1	.00001022	1.66282435	
151.60	-54.8	-77.7	.00328	374.4	.00000735	1.66283169	
149.00	-55.4	-78.4	.00298	375.2	.00000829	1.66283998	
146.00	-55.8	-79.3	.00259	376.7	.00000852	1.66284850	
143.00	-56.0	-79.6	.00256	378.5	.00000788	1.66285639	
140.00	-57.1	-79.8	.00249	379.0	.00000773	1.66286412	
137.00	-57.3	-80.6	.00227	381.0	.00000727	1.66287139	
134.00	-57.5	-80.3	.00243	383.0	.00000718	1.66287857	
131.20	-57.9	-79.3	.00289	384.5	.00000758	1.66288616	
128.70	-57.9	-80.1	.00259	386.7	.00000697	1.66289313	
126.00	-58.1	-81.2	.00221	388.6	.00000660	1.66289973	
123.50	-58.4	-81.8	.00204	390.4	.00000541	1.66290514	
121.00	-58.6	-82.0	.00201	392.3	.00000516	1.66291030	
118.40	-59.5	-81.9	.00210	393.1	.00000545	1.66291575	
116.00	-60.0	-83.1	.00175	394.5	.00000472	1.66292048	
113.20	-59.7	-82.6	.00194	397.7	.00000528	1.66292575	
110.50	-59.7	-82.5	.00204	400.5	.00000547	1.66293122	
107.70	-60.4	-83.2	.00186	402.1	.00000557	1.66293679	
105.00	-60.9	-83.9	.00170	404.1	.00000490	1.66294169	
102.80	-61.6	-84.3	.00160	405.2	.00000370	1.66294539	
100.40	-62.1	-85.8	.00127	407.0	.00000352	1.66294891	
98.00	-62.4	-86.8	.00110	409.3	.00000289	1.66295180	
95.50	-62.6	-87.1	.00106	411.9	.00000274	1.66295454	
93.10	-61.9	-86.4	.00122	416.3	.00000279	1.66295733	
90.80	-60.9	-86.1	.00133	421.3	.00000300	1.66296032	
88.40	-59.7	-86.5	.00127	426.9	.00000317	1.66296349	
86.00	-58.4	-87.5	.00110	433.0	.00000291	1.66296640	
84.00	-57.7	-88.0	.00103	437.2	.00000218	1.66296858	
82.00	-57.3	-87.1	.00123	441.1	.00000229	1.66297087	
80.00	-57.1	-86.5	.00140	444.7	.00000268	1.66297355	
78.00	-56.8	-86.9	.00135	448.4	.00000280	1.66297635	
76.10	-56.4	-86.6	.00145	452.4	.00000271	1.66297907	
74.50	-56.2	-87.2	.00134	455.6	.00000226	1.66298133	
72.20	-56.0	-87.1	.00140	460.2	.00000320	1.66298454	
70.30	-55.4	-87.1	.00144	465.0	.00000274	1.66298728	
68.50	-55.2	-87.6	.00137	468.9	.00000256	1.66298984	
66.80	-54.8	-88.1	.00127	473.2	.00000228	1.66299212	
64.90	-54.6	-88.8	.00115	477.5	.00000234	1.66299446	
63.10	-54.6	-88.4	.00126	481.4	.00000221	1.66299666	
61.30	-55.2	-88.3	.00132	484.0	.00000237	1.66299903	
59.40	-55.4	-88.6	.00130	487.9	.00000253	1.66300157	

WASHINGTON,D.C.		8/6/66	1450Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
57.60	-55.8	-88.8	.00130	491.3	.00000238	1.66300395	
56.00	-55.6	-88.8	.00134	495.8	.00000215	1.66300610	
54.30	-55.2	-88.5	.00145	501.1	.00000240	1.66300850	
52.80	-54.2	-88.4	.00151	507.4	.00000225	1.66301075	
51.30	-53.8	-88.3	.00158	512.6	.00000235	1.66301310	
49.80	-53.6	-88.7	.00153	517.4	.00000237	1.66301547	
48.50	-53.4	-88.7	.00157	521.8	.00000204	1.66301751	
47.00	-53.4	-88.6	.00164	526.5	.00000244	1.66301996	
45.80	-53.4	-88.9	.00161	530.4	.00000198	1.66302194	
44.70	-53.2	-89.0	.00162	534.5	.00000180	1.66302374	
43.40	-52.4	-89.1	.00164	541.0	.00000216	1.66302590	
42.00	-51.7	-89.1	.00169	547.9	.00000237	1.66302827	
40.80	-51.3	-89.2	.00172	553.4	.00000209	1.66303036	
39.50	-50.4	-89.8	.00157	560.8	.00000218	1.66303253	
38.30	-50.0	-89.8	.00162	566.7	.00000195	1.66303448	
37.20	-49.8	-90.2	.00156	571.9	.00000177	1.66303626	
35.80	-50.0	-90.5	.00153	577.8	.00000221	1.66303846	
34.50	-50.0	-90.7	.00154	583.9	.00000203	1.66304049	
33.10	-50.0	-90.6	.00163	590.9	.00000225	1.66304274	
31.80	-49.8	-90.7	.00167	598.1	.00000218	1.66304491	
30.40	-49.7	-91.0	.00165	606.4	.00000235	1.66304727	
29.20	-49.5	-91.2	.00166	613.9	.00000201	1.66304928	
28.00	-48.8	-91.7	.00157	623.2	.00000197	1.66305125	
26.90	-48.1	-91.7	.00164	632.3	.00000179	1.66305304	
25.70	-47.7	-91.8	.00168	641.6	.00000203	1.66305506	
24.60	-47.7	-92.0	.00169	649.7	.00000188	1.66305694	
23.50	-47.7	-92.2	.00170	658.2	.00000189	1.66305883	
22.60	-47.9	-92.3	.00173	665.1	.00000156	1.66306040	
21.60	-47.4	-93.0	.00161	675.3	.00000170	1.66306210	
20.70	-46.1	-93.2	.00161	687.6	.00000148	1.66306357	
19.85	-44.9	-93.0	.00175	699.4	.00000145	1.66306502	
19.05	-44.3	-93.0	.00182	709.7	.00000145	1.66306646	
18.35	-43.5	-93.2	.00182	719.8	.00000130	1.66306776	
17.60	-43.2	-93.4	.00182	729.4	.00000139	1.66306914	
16.75	-43.2	-93.7	.00179	739.8	.00000156	1.66307071	
16.00	-42.9	-93.8	.00184	750.6	.00000139	1.66307209	
15.40	-42.7	-94.2	.00179	759.3	.00000110	1.66307320	
14.75	-42.2	-94.3	.00183	770.3	.00000119	1.66307439	
14.30	-41.9	-94.6	.00176	778.2	.00000082	1.66307521	
13.70	-41.6	-94.9	.00176	788.8	.00000107	1.66307628	
13.30	-41.3	-95.0	.00177	796.5	.00000072	1.66307700	
12.80	-41.2	-95.2	.00175	805.8	.00000089	1.66307789	
12.50	-41.0	-95.2	.00180	811.9	.00000054	1.66307843	

WASHINGTON, D.C.

9/30/66

1630Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
996.00	22.3	9.7	7.61731	295.8		
986.00	21.4	10.9	8.31883	295.7	.08130652	.08130652
974.00	20.3	10.9	8.42271	295.7	.10249877	.18380529
960.00	19.2	9.7	7.90659	295.8	.11663739	.30044268
946.00	17.5	9.7	8.02512	295.3	.11379747	.41424015
930.00	16.3	8.6	7.57610	295.5	.12735638	.54159653
912.00	15.1	7.6	7.20612	295.9	.13575456	.67735109
892.00	13.8	7.6	7.36960	296.5	.14873126	.82608235
876.00	12.5	7.6	7.50583	296.7	.12143166	.94751401
860.00	11.2	7.6	7.64719	296.9	.12369768	1.07121170
841.00	9.8	7.6	7.82213	297.3	.14995717	1.22116886
822.00	8.5	5.7	6.99313	297.8	.14361677	1.36478563
807.00	6.8	3.9	6.26167	297.7	.10143937	1.46622500
790.00	7.1	2.2	5.67879	299.8	.10356477	1.56978977
775.00	6.7	.6	5.17258	301.0	.08304588	1.65283565
761.00	6.1	-.8	4.69738	301.9	.07049946	1.72333512
750.00	5.6	-.1	5.05436	302.7	.05472897	1.77806409
738.00	5.1	-.8	4.84492	303.4	.06060761	1.83867170
725.00	4.6	-1.5	4.64678	304.5	.06295486	1.90162656
713.00	4.2	-2.9	4.22256	305.5	.05430181	1.95592837
701.00	3.0	-2.2	4.54752	305.7	.05369410	2.00962247
689.00	2.1	-2.9	4.37067	306.1	.05460094	2.06422341
677.00	.9	-3.5	4.20995	306.4	.05253424	2.11675765
665.00	.1	-5.9	3.48927	307.1	.04713793	2.16389558
653.50	-.7	-6.5	3.37884	307.7	.04029748	2.20419306
642.00	-1.4	-7.0	3.28236	308.5	.03908344	2.24327649
629.70	-2.6	-8.1	3.05025	308.8	.03974018	2.28301667
618.00	-3.5	-7.6	3.25205	309.4	.03762069	2.32063736
605.00	-4.4	-8.1	3.17541	310.2	.04263096	2.36326832
593.00	-5.2	-8.6	3.09448	311.1	.03838696	2.40165527
581.50	-6.1	-8.6	3.15599	311.8	.03667355	2.43832882
570.00	-7.0	-10.1	2.82350	312.5	.03508359	2.47341241
560.00	-6.9	-12.8	2.25547	314.2	.02591299	2.49932539
549.00	-6.4	-18.1	1.40804	316.6	.02056040	2.51988579
538.00	-5.9	-20.6	1.12593	319.1	.01422116	2.53410695
527.00	-6.4	-19.1	1.33499	320.4	.01381120	2.54791816
515.80	-7.4	-22.4	.99223	321.1	.01329833	2.56121649
505.00	-8.2	-24.5	.82077	322.1	.00998998	2.57120647
494.00	-8.9	-26.2	.70637	323.2	.00857061	2.57977708
483.00	-10.0	-27.1	.65729	324.0	.00765315	2.58743022
474.20	-11.1	-29.3	.53587	324.3	.00535703	2.59278725
464.00	-12.1	-29.3	.54766	325.1	.00563876	2.59842601
454.80	-13.3	-30.5	.49283	325.4	.00488390	2.60330991
445.00	-14.7	-31.3	.46417	325.7	.00478497	2.60809489
435.00	-16.1	-32.8	.40631	326.1	.00444119	2.61253607
426.00	-17.3	-34.8	.33236	326.5	.00339180	2.61592788
416.00	-18.7	-37.0	.26754	326.9	.00306070	2.61898857
406.00	-20.1	-40.0	.19640	327.5	.00236706	2.62135564
396.80	-21.4	-40.9	.18101	327.8	.00177151	2.62312715
388.00	-22.8	-41.9	.16476	328.1	.00155239	2.62467954
377.50	-24.2	-43.4	.14310	328.9	.00164923	2.62632877
368.00	-25.8	-44.2	.13347	329.1	.00134051	2.62766927
358.20	-27.5	-45.0	.12493	329.5	.00129198	2.62896125
349.00	-29.3	-45.7	.11853	329.5	.00114276	2.63010401
339.00	-31.0	-45.8	.12050	329.9	.00121953	2.63132353
329.00	-32.5	-46.0	.12095	330.6	.00123188	2.63255541

WASHINGTON, D.C.		9/30/66	1630Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
326.40	-32.7	-44.4	.14651	331.2	.00035480	2.63291021	
320.00	-33.3	-46.1	.12281	332.1	.00087942	2.63378963	
315.50	-34.3	-46.7	.11540	332.1	.00054689	2.63433652	
310.00	-35.4	-47.6	.10628	332.3	.00062203	2.63495855	
305.00	-36.3	-48.1	.10159	332.5	.00053026	2.63548881	
300.00	-36.9	-50.5	.07676	333.3	.00045495	2.63594376	
294.50	-37.9	-51.5	.06896	333.6	.00040890	2.63635266	
290.00	-39.0	-51.5	.07003	333.5	.00031911	2.63667177	
285.00	-39.9	-52.2	.06512	333.9	.00034478	2.63701655	
280.00	-41.1	-51.0	.07764	333.9	.00036418	2.63738073	
275.70	-42.1	-51.2	.07622	333.9	.00033756	2.63771829	
271.00	-43.2	-51.2	.07754	334.0	.00036871	2.63808700	
266.50	-44.1	-52.2	.06965	334.2	.00033793	2.63842493	
262.00	-45.0	-52.9	.06482	334.5	.00030872	2.63873366	
257.50	-45.8	-52.0	.07455	335.0	.00031997	2.63905363	
253.00	-47.0	-51.1	.08399	335.0	.00036399	2.63941762	
248.50	-47.8	-53.4	.06469	335.5	.00034136	2.63975897	
244.00	-48.8	-55.0	.05368	335.7	.00027177	2.64003074	
239.70	-50.0	-55.8	.04916	335.6	.00022562	2.64025636	
235.00	-50.9	-56.6	.04517	336.1	.00022618	2.64048254	
231.00	-52.0	-56.6	.04595	336.1	.00018594	2.64066848	
227.00	-52.9	-57.0	.04393	336.4	.00018342	2.64085190	
222.60	-53.9	-57.0	.04527	336.8	.00020024	2.64105214	
218.00	-54.7	-57.4	.04390	337.6	.00020927	2.64126141	
214.00	-55.3	-59.0	.03574	338.5	.00016253	2.64142394	
210.00	-56.1	-59.5	.03428	339.1	.00014289	2.64156683	
206.00	-56.9	-59.9	.03323	339.6	.00013778	2.64170460	
202.00	-57.1	-60.2	.03257	341.2	.00013427	2.64183888	
197.50	-57.3	-62.5	.02424	343.1	.00013041	2.64196929	
194.00	-57.9	-65.1	.01718	343.8	.00007395	2.64204325	
190.50	-58.4	-66.2	.01498	344.9	.00005743	2.64210068	
187.00	-58.6	-67.8	.01195	346.4	.00004807	2.64214875	
183.00	-58.8	-68.7	.01084	348.2	.00004651	2.64219525	
179.00	-59.3	-67.8	.01248	349.7	.00004759	2.64224285	
176.00	-59.9	-68.7	.01117	350.3	.00003618	2.64227903	
172.50	-60.2	-70.8	.00836	351.9	.00003485	2.64231388	
168.90	-60.4	-69.6	.01023	353.7	.00003412	2.64234801	
165.00	-61.1	-69.1	.01122	354.9	.00004266	2.64239067	
161.50	-61.8	-69.3	.01113	355.9	.00003991	2.64243057	
158.50	-62.8	-70.5	.00947	356.1	.00003152	2.64246209	
155.00	-63.5	-70.9	.00921	357.1	.00003335	2.64249544	
152.00	-64.3	-73.4	.00641	357.8	.00002390	2.64251934	
149.00	-65.3	-74.3	.00564	358.0	.00001843	2.64253777	
146.00	-65.1	-74.8	.00540	360.6	.00001688	2.64255466	
143.00	-64.3	-75.5	.00494	364.1	.00001581	2.64257047	
140.00	-64.3	-76.3	.00442	366.3	.00001432	2.64258479	
137.30	-64.8	-76.9	.00412	367.4	.00001176	2.64259654	
134.50	-65.1	-76.9	.00416	369.1	.00001182	2.64260836	
132.00	-65.6	-77.3	.00400	370.1	.00001040	2.64261876	
129.00	-65.9	-77.6	.00387	372.1	.00001204	2.64263080	
126.00	-66.2	-77.8	.00387	374.1	.00001183	2.64264263	
123.00	-66.4	-78.0	.00383	376.2	.00001177	2.64265440	
120.00	-66.4	-78.2	.00379	378.9	.00001164	2.64266604	
117.00	-65.9	-78.6	.00366	382.6	.00001138	2.64267743	
114.60	-64.8	-79.1	.00344	386.9	.00000869	2.64268611	

WASHINGTON, D.C.		9/30/66	1630Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
112.00	-63.5	-79.6	.00327	391.9	.00000888	2.64269499	
109.50	-62.5	-79.7	.00326	396.3	.00000833	2.64270332	
107.00	-62.5	-79.9	.00322	398.9	.00000826	2.64271158	
103.80	-62.5	-80.5	.00300	402.4	.00001015	2.64272173	
100.50	-62.3	-81.3	.00273	406.6	.00000964	2.64273137	
97.80	-61.8	-81.5	.00273	410.7	.00000751	2.64273888	
95.20	-61.6	-81.8	.00266	414.3	.00000715	2.64274603	
92.80	-61.3	-82.3	.00249	417.8	.00000630	2.64275233	
90.50	-61.3	-82.7	.00242	420.8	.00000575	2.64275809	
88.20	-61.1	-83.3	.00222	424.4	.00000544	2.64276353	
85.90	-61.1	-83.6	.00216	427.6	.00000513	2.64276865	
84.00	-61.1	-84.1	.00202	430.4	.00000404	2.64277269	
81.90	-60.8	-83.7	.00223	434.0	.00000454	2.64277723	
80.00	-60.6	-83.8	.00225	437.4	.00000434	2.64278157	
78.00	-60.2	-84.0	.00224	441.5	.00000457	2.64278615	
76.10	-59.5	-84.1	.00223	446.0	.00000434	2.64279048	
74.30	-58.6	-84.4	.00219	451.0	.00000405	2.64279453	
72.50	-57.9	-84.1	.00234	455.5	.00000416	2.64279869	
70.80	-56.9	-83.9	.00251	460.8	.00000420	2.64280289	
69.00	-56.5	-84.0	.00250	465.1	.00000459	2.64280748	
67.00	-56.3	-84.3	.00247	469.5	.00000507	2.64281255	
65.40	-56.1	-84.6	.00242	473.2	.00000398	2.64281653	
63.80	-56.1	-84.8	.00237	476.6	.00000390	2.64282043	
61.90	-56.1	-85.1	.00234	480.7	.00000456	2.64282499	
60.00	-56.1	-85.2	.00237	485.0	.00000456	2.64282955	
58.60	-56.3	-85.2	.00240	487.8	.00000340	2.64283295	
57.00	-56.1	-85.2	.00250	492.2	.00000399	2.64283694	
55.40	-54.7	-85.7	.00235	499.4	.00000395	2.64284089	
53.90	-53.9	-86.0	.00227	505.1	.00000353	2.64284442	
52.40	-52.6	-86.6	.00212	512.3	.00000335	2.64284778	
50.90	-51.5	-86.6	.00218	519.1	.00000329	2.64285107	
49.30	-50.9	-86.8	.00218	525.2	.00000356	2.64285463	
47.80	-51.1	-86.7	.00229	529.4	.00000341	2.64285804	
46.40	-51.3	-87.0	.00221	533.5	.00000320	2.64286125	
45.00	-51.5	-87.2	.00220	537.7	.00000314	2.64286439	
43.70	-51.8	-87.4	.00220	541.4	.00000291	2.64286730	
42.40	-52.0	-87.7	.00215	545.6	.00000288	2.64287017	
41.20	-52.0	-87.6	.00225	550.1	.00000268	2.64287286	
40.00	-52.0	-87.3	.00244	554.7	.00000286	2.64287572	
38.80	-52.0	-87.7	.00235	559.6	.00000292	2.64287864	
37.50	-52.0	-88.2	.00223	565.1	.00000304	2.64288168	
36.30	-51.6	-88.3	.00227	571.3	.00000274	2.64288442	
35.00	-51.5	-88.2	.00239	577.8	.00000308	2.64288750	
33.60	-51.1	-87.9	.00262	585.5	.00000358	2.64289108	
32.30	-50.9	-88.3	.00255	592.6	.00000343	2.64289451	
31.00	-50.6	-88.8	.00243	600.6	.00000329	2.64289780	
30.00	-50.4	-88.7	.00256	606.7	.00000253	2.64290033	
28.50	-50.2	-89.0	.00255	616.1	.00000390	2.64290424	
27.30	-49.5	-89.4	.00248	625.7	.00000307	2.64290731	
26.00	-49.3	-89.7	.00246	635.0	.00000326	2.64291057	
24.80	-49.2	-90.1	.00239	644.1	.00000297	2.64291354	
23.60	-48.8	-90.3	.00242	654.3	.00000294	2.64291647	
22.40	-48.5	-90.7	.00236	665.1	.00000292	2.64291939	
21.30	-48.3	-90.8	.00243	675.3	.00000268	2.64292207	
20.20	-47.8	-91.3	.00237	687.2	.00000268	2.64292476	

WASHINGTON,D.C.		9/30/66	1630Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
19.00	-47.6	-91.6	.00237	699.8	.00000289	2.64292765	
17.90	-47.5	-91.7	.00246	712.4	.00000270	2.64293034	
16.90	-47.3	-91.8	.00255	724.7	.00000255	2.64293289	
15.90	-47.0	-91.9	.00266	738.5	.00000265	2.64293554	
14.80	-46.8	-92.3	.00268	754.3	.00000298	2.64293852	
13.80	-46.6	-92.5	.00275	770.1	.00000276	2.64294128	
13.00	-46.5	-92.6	.00285	783.9	.00000228	2.64294356	
12.10	-46.2	-92.7	.00300	801.3	.00000268	2.64294624	
11.40	-46.0	-93.2	.00291	815.7	.00000210	2.64294834	
10.70	-45.8	-93.4	.00296	831.2	.00000209	2.64295043	
10.00	-45.8	-93.8	.00296	847.4	.00000210	2.64295253	
9.50	-45.8	-94.3	.00283	859.9	.00000148	2.64295401	
9.20	-45.7	-94.4	.00285	868.4	.00000086	2.64295487	
8.90	-45.5	-95.0	.00267	877.3	.00000083	2.64295571	

WASHINGTON, D.C.		12/12/66	1620Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1025.00	2.4	-3.8	2.70382	273.6		
1016.00	1.8	-3.8	2.72788	273.7	.02494138	.02494138
1007.00	1.0	-3.8	2.75237	273.6	.02516429	.05010568
996.00	.2	-3.8	2.78290	273.6	.03106515	.08117083
984.00	-.7	-3.8	2.81699	273.7	.03428492	.11545575
972.00	-1.6	-3.8	2.85193	273.8	.03470755	.15016329
958.00	-3.1	-5.7	2.46997	273.4	.03801341	.18817671
941.00	-3.6	-6.8	2.27691	274.3	.04117173	.22934844
924.00	-1.1	-15.2	1.09310	278.3	.02922951	.25857794
905.00	1.3	-27.1	.35298	282.3	.01401801	.27259596
890.00	1.0	-26.6	.37663	283.4	.00558372	.27817968
874.00	.7	-26.6	.38353	284.6	.00620537	.28438504
859.00	.2	-27.1	.37189	285.4	.00578126	.29016630
850.00	-.5	-26.6	.39437	285.6	.00351851	.29368481
830.00	-.9	-28.8	.32092	287.1	.00729875	.30098356
810.00	-1.2	-34.9	.17388	288.8	.00504886	.30603242
790.00	-1.5	-30.9	.27239	290.6	.00455369	.31058611
770.00	-1.6	-32.4	.23797	292.6	.00520769	.31579380
750.00	-1.9	-24.4	.55908	294.5	.00813308	.32392688
730.00	-2.5	-24.6	.55954	296.1	.01141445	.33534133
710.00	-3.2	-27.1	.44999	297.7	.01030134	.34564267
690.00	-3.9	-53.1	.02398	299.4	.00483643	.35047910
670.00	-4.4	-46.1	.05857	301.3	.00084233	.35132143
652.00	-5.4	-46.5	.05719	302.5	.00106312	.35238455
635.00	-6.7	-42.8	.09136	303.3	.00128849	.35367304
619.00	-7.8	-40.2	.12563	304.4	.00177133	.35544437
601.00	-8.9	-41.0	.11820	305.6	.00223915	.35768352
583.00	-10.1	-36.2	.20989	307.0	.00301304	.36069657
565.00	-11.5	-30.9	.38093	308.1	.00542589	.36612245
550.00	-12.6	-27.5	.55461	309.1	.00715971	.37328216
535.00	-13.8	-29.3	.47627	310.1	.00788939	.38117155
515.00	-15.3	-31.5	.39305	311.6	.00887057	.39004213
496.00	-17.2	-32.6	.36229	312.7	.00732204	.39736417
481.00	-19.1	-34.2	.31514	313.2	.00518435	.40254852
465.00	-20.8	-36.6	.24996	314.0	.00461301	.40716153
449.00	-23.1	-34.2	.33761	314.4	.00479646	.41195799
433.00	-25.1	-48.5	.06801	315.1	.00331117	.41526917
419.00	-26.5	-49.4	.06306	316.2	.00093618	.41620535
405.00	-28.2	-49.7	.06295	317.2	.00090005	.41710539
390.00	-30.0	-47.6	.08432	318.2	.00112703	.41823243
374.00	-32.0	-48.4	.07968	319.4	.00133875	.41957118
359.00	-33.9	-50.2	.06621	320.6	.00111645	.42068763
344.00	-36.1	-52.8	.05026	321.6	.00089131	.42157894
330.00	-38.1	-53.0	.05068	322.7	.00072102	.42229997
316.00	-40.3	-53.5	.05010	323.7	.00071988	.42301984
304.00	-42.2	-52.3	.06013	324.5	.00067489	.42369473
295.00	-44.4	-58.2	.02887	324.2	.00040865	.42410338
280.00	-46.7	-60.7	.02183	325.8	.00038797	.42449135
267.00	-48.7	-57.2	.03644	327.3	.00038645	.42487779
255.00	-50.6	-56.6	.04143	328.8	.00047670	.42535450
242.00	-52.7	-56.8	.04233	330.7	.00055553	.42591003
230.00	-54.8	-60.3	.02822	332.3	.00043191	.42634194
217.00	-56.7	-67.2	.01123	335.0	.00026162	.42660356
206.00	-57.3	-68.4	.01001	339.0	.00011921	.42672276
194.00	-57.5	-72.1	.00614	344.5	.00009885	.42682162
183.00	-57.9	-74.4	.00452	349.6	.00005978	.42688140

WASHINGTON, D.C.	12/12/66	1620Z	P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
172.00	-58.2	-75.9	.00383	355.5	.00004686	.42692827			
157.00	-58.8	-77.0	.00352	363.8	.00005625	.42698452			
148.00	-60.2	-79.2	.00261	367.6	.00002810	.42701262			
137.00	-60.9	-80.1	.00243	374.6	.00002827	.42704089			
128.00	-62.1	-80.9	.00230	379.7	.00002173	.42706262			
118.00	-62.8	-80.4	.00269	387.3	.00002545	.42708807			
109.00	-63.6	-81.6	.00238	394.7	.00002326	.42711133			
97.00	-64.7	-82.0	.00250	406.0	.00002986	.42714119			
90.00	-65.2	-82.8	.00236	413.8	.00001736	.42715855			
82.00	-65.2	-83.1	.00249	424.9	.00001979	.42717834			
76.00	-63.4	-83.5	.00247	438.1	.00001518	.42719352			
69.00	-61.9	-84.9	.00217	453.6	.00001657	.42721009			
63.50	-60.2	-85.1	.00226	468.1	.00001241	.42722251			
57.00	-58.8	-86.3	.00206	485.9	.00001432	.42723683			
52.50	-58.6	-87.3	.00185	498.0	.00000899	.42724581			
47.00	-58.4	-87.9	.00187	514.5	.00001043	.42725624			
41.00	-58.4	-88.6	.00190	535.0	.00001155	.42726779			
37.50	-58.2	-89.6	.00171	549.4	.00000645	.42727424			
32.50	-56.9	-89.6	.00197	575.7	.00000939	.42728363			
28.50	-55.8	-89.0	.00255	600.6	.00000924	.42729287			
25.00	-54.8	-90.7	.00213	626.4	.00000834	.42730121			
21.50	-53.8	-92.1	.00190	657.0	.00000720	.42730841			

WASHINGTON,D.C.

1/12/67

1540Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1020.40	.3	-6.8	2.09404	271.8		
1003.00	-1.4	-7.9	1.93673	271.6	.03578322	.03578322
985.00	-3.3	-9.0	1.79947	271.1	.03431195	.07009517
966.00	-4.8	-11.0	1.53936	271.0	.03236610	.10246126
950.00	-6.0	-10.5	1.63480	271.1	.02591139	.12837265
933.00	-5.5	-13.2	1.30261	273.0	.02547744	.15385009
919.00	-4.7	-15.6	1.05939	275.0	.01687133	.17072143
903.00	-4.2	-18.1	.85025	276.9	.01558878	.18631020
885.00	-3.8	-17.4	.92627	278.9	.01631492	.20262513
870.00	-3.9	-19.8	.75413	280.2	.01286015	.21548527
855.00	-3.9	-20.7	.70102	281.6	.01113628	.22662155
840.00	-4.2	-22.2	.61797	282.7	.01009424	.23671579
823.00	-4.7	-30.9	.26099	283.8	.00762355	.24433935
810.00	-4.8	-34.9	.17355	285.0	.00288214	.24722148
796.00	-5.4	-44.8	.05764	285.8	.00165133	.24887282
782.00	-5.4	-45.8	.05210	287.3	.00078382	.24965663
768.00	-4.7	-30.9	.27969	289.5	.00236990	.25202653
753.50	-4.4	-10.0	2.15459	291.4	.01800860	.27003513
739.00	-4.7	-7.4	2.76124	292.7	.03636698	.30640212
725.00	-5.0	-7.4	2.81481	294.0	.03982878	.34623089
710.00	-5.5	-6.8	3.01395	295.2	.04460765	.39083855
694.50	-5.7	-6.8	3.08155	296.8	.04820403	.43904258
682.00	-6.1	-8.5	2.72134	297.9	.03700806	.47605065
668.00	-6.9	-9.0	2.65707	298.8	.03841700	.51446764
654.00	-7.8	-9.0	2.71419	299.6	.03836596	.55283360
641.00	-8.6	-9.0	2.76948	300.4	.03637117	.58920477
628.00	-7.4	-10.5	2.47637	303.5	.03479375	.62399852
614.00	-8.2	-11.9	2.23366	304.6	.03364292	.65764144
600.00	-9.2	-13.2	2.02792	305.4	.03043972	.68808116
587.50	-10.4	-13.6	1.99445	305.9	.02565275	.71373391
575.00	-11.1	-14.0	1.96096	306.9	.02522577	.73895968
562.50	-12.0	-18.1	1.36606	307.8	.02121817	.76017785
550.00	-12.9	-21.9	.97072	308.7	.01490285	.77508070
538.00	-14.2	-24.1	.79894	309.2	.01083460	.78591530
525.00	-14.9	-27.1	.60755	310.4	.00932877	.79524407
514.00	-15.5	-32.8	.34237	311.6	.00533117	.80057524
502.00	-16.4	-37.4	.21246	312.6	.00339693	.80397217
491.00	-17.7	-40.0	.16300	313.1	.00210719	.80607936
478.00	-19.2	-39.1	.18383	313.6	.00230043	.80837978
466.20	-20.7	-31.7	.42465	314.0	.00366333	.81204312
454.00	-22.2	-30.3	.50345	314.5	.00577694	.81782006
442.20	-23.6	-29.7	.55097	315.1	.00634801	.82416807
431.00	-24.8	-29.3	.59020	315.8	.00652099	.83068906
423.00	-28.7	-34.6	.34487	312.6	.00381662	.83450568
416.00	-29.4	-34.6	.35068	313.1	.00248410	.83698978
409.00	-30.1	-41.6	.16352	313.8	.00183642	.83882619
402.50	-30.9	-43.6	.13055	314.2	.00097522	.83980142
395.00	-31.5	-43.0	.14261	315.1	.00104524	.84084666
389.00	-32.2	-34.9	.36149	315.6	.00154313	.84238979
383.00	-32.7	-31.7	.51698	316.3	.00268917	.84507896
377.00	-33.5	-38.9	.24054	316.6	.00231890	.84739786
370.00	-34.4	-41.6	.18076	317.2	.00150463	.84890249
364.30	-35.2	-43.3	.15030	317.6	.00096278	.84986527
358.00	-36.0	-46.1	.10947	318.0	.00083496	.85070023
352.00	-36.7	-48.1	.08771	318.6	.00060360	.85130383
346.00	-37.7	-45.4	.12411	318.9	.00064844	.85195227

WASHINGTON, D.C.		1/12/67	1540Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
340.70	-38.4	-42.9	.16762	319.3	.00078888	.85274115	
335.00	-39.4	-42.7	.17534	319.5	.00099738	.85373853	
329.40	-40.1	-44.2	.14900	320.0	.00092666	.85466519	
324.00	-41.0	-46.4	.11644	320.3	.00073129	.85539648	
318.00	-41.9	-49.2	.08498	320.8	.00061657	.85601304	
313.00	-42.8	-51.6	.06384	321.0	.00037962	.85639267	
308.00	-43.6	-52.0	.06200	321.4	.00032100	.85671367	
303.00	-44.2	-52.1	.06233	322.0	.00031716	.85703082	
298.00	-45.2	-52.3	.06198	322.2	.00031711	.85734794	
293.00	-45.8	-54.4	.04794	322.8	.00028038	.85762832	
288.20	-46.8	-55.4	.04287	322.9	.00022237	.85785069	
283.00	-47.5	-56.2	.03930	323.7	.00021800	.85806869	
278.60	-48.3	-55.4	.04435	323.9	.00018777	.85825646	
274.00	-49.0	-54.9	.04806	324.5	.00021687	.85847333	
269.50	-50.1	-57.9	.03324	324.5	.00018665	.85865998	
265.00	-51.0	-57.9	.03380	324.7	.00015391	.85881390	
260.50	-52.1	-58.0	.03369	324.7	.00015496	.85896885	
256.00	-52.8	-58.5	.03192	325.2	.00015065	.85911950	
251.80	-53.9	-58.5	.03246	325.1	.00013794	.85925744	
247.00	-54.7	-57.4	.03855	325.7	.00017390	.85943134	
242.80	-55.7	-57.5	.03843	325.8	.00016496	.85959630	
238.00	-56.1	-57.7	.03841	327.0	.00018817	.85978447	
234.00	-56.3	-58.8	.03389	328.3	.00014755	.85993202	
230.00	-56.3	-60.8	.02631	330.0	.00012285	.86005487	
226.00	-56.6	-60.2	.02900	331.3	.00011286	.86016773	
222.00	-56.6	-60.2	.02952	333.0	.00011940	.86028713	
218.00	-56.1	-62.4	.02213	335.4	.00010541	.86039254	
214.00	-55.5	-64.5	.01682	338.1	.00007948	.86047202	
210.00	-54.1	-66.6	.01278	342.1	.00006039	.86053242	
206.00	-53.9	-70.1	.00780	344.3	.00004199	.86057441	
201.70	-54.1	-70.3	.00765	346.0	.00003390	.86060831	
198.00	-54.1	-71.1	.00698	347.9	.00002761	.86063592	
194.00	-53.8	-73.1	.00524	350.5	.00002493	.86066085	
190.00	-53.8	-73.8	.00482	352.6	.00002052	.86068137	
186.00	-53.9	-74.7	.00425	354.5	.00001849	.86069986	
182.00	-54.3	-76.2	.00345	356.0	.00001571	.86071557	
178.00	-54.9	-77.5	.00285	357.3	.00001287	.86072844	
174.00	-55.1	-78.0	.00270	359.3	.00001132	.86073977	
170.50	-55.5	-78.0	.00278	360.8	.00000978	.86074954	
167.00	-56.6	-78.1	.00278	361.2	.00000992	.86075947	
163.30	-57.6	-78.1	.00284	361.8	.00001059	.86077006	
160.00	-58.0	-78.4	.00277	363.2	.00000943	.86077949	
156.40	-58.5	-79.2	.00249	364.8	.00000964	.86078914	
153.00	-58.9	-79.5	.00242	366.3	.00000851	.86079764	
149.00	-59.8	-80.7	.00204	367.6	.00000910	.86080675	
145.00	-60.5	-81.4	.00185	369.2	.00000794	.86081469	
142.50	-61.0	-81.7	.00181	370.3	.00000466	.86081935	
139.50	-61.4	-81.9	.00178	371.7	.00000550	.86082485	
136.30	-61.7	-82.4	.00168	373.7	.00000565	.86083050	
133.00	-61.4	-81.2	.00210	376.8	.00000636	.86083686	
130.50	-61.2	-80.6	.00236	379.3	.00000568	.86084254	
127.50	-61.0	-80.7	.00239	382.2	.00000727	.86084981	
124.80	-61.0	-80.9	.00235	384.6	.00000653	.86085634	
122.00	-61.2	-80.9	.00240	386.6	.00000678	.86086312	
119.00	-61.4	-81.5	.00223	389.0	.00000708	.86087020	

WASHINGTON, D.C.		1/12/67	1540Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
116.00	-61.7	-81.2	.00240	391.4	.00000708	.86087728	
113.60	-61.7	-81.9	.00219	393.7	.00000562	.86088289	
111.00	-61.7	-81.9	.00224	396.3	.00000586	.86088875	
108.70	-61.4	-81.8	.00231	399.2	.00000533	.86089408	
106.00	-62.2	-81.2	.00263	400.7	.00000681	.86090089	
103.00	-62.4	-81.3	.00267	403.5	.00000811	.86090900	
100.00	-62.6	-81.7	.00258	406.4	.00000803	.86091703	
97.40	-63.1	-81.7	.00262	408.5	.00000688	.86092392	
95.00	-63.4	-82.1	.00251	411.0	.00000627	.86093019	
92.50	-63.7	-82.2	.00255	413.6	.00000645	.86093664	
90.00	-64.4	-82.2	.00262	415.3	.00000659	.86094323	
87.80	-64.4	-82.5	.00255	418.3	.00000580	.86094902	
85.70	-64.2	-82.6	.00257	421.7	.00000548	.86095451	
83.50	-64.2	-82.8	.00257	424.8	.00000577	.86096027	
81.20	-65.0	-82.8	.00261	426.6	.00000606	.86096634	
79.20	-65.2	-82.6	.00278	429.1	.00000550	.86097184	
77.20	-65.5	-82.7	.00282	431.7	.00000571	.86097755	
75.10	-65.5	-83.2	.00264	435.1	.00000584	.86098339	
73.10	-65.8	-83.6	.00256	437.9	.00000530	.86098869	
71.10	-65.2	-83.8	.00253	442.5	.00000519	.86099388	
69.20	-63.9	-84.0	.00253	448.8	.00000489	.86099876	
67.20	-63.1	-84.1	.00253	454.2	.00000516	.86100392	
65.10	-63.1	-84.5	.00246	458.4	.00000533	.86100926	
63.50	-63.4	-84.5	.00253	461.1	.00000407	.86101332	
61.80	-63.7	-85.0	.00238	464.1	.00000425	.86101757	
60.00	-63.7	-84.9	.00249	468.0	.00000446	.86102203	
58.00	-63.1	-85.2	.00243	473.8	.00000501	.86102703	
56.30	-62.6	-85.7	.00232	478.9	.00000411	.86103114	
54.80	-62.4	-85.7	.00235	483.2	.00000356	.86103471	
53.10	-62.4	-85.9	.00235	487.6	.00000407	.86103877	
51.30	-62.2	-86.1	.00236	493.0	.00000432	.86104310	
49.70	-62.2	-86.6	.00222	497.5	.00000373	.86104682	
48.00	-62.2	-86.8	.00222	502.4	.00000384	.86105067	
46.60	-62.6	-86.7	.00233	505.5	.00000325	.86105391	
45.00	-63.1	-86.7	.00241	509.4	.00000386	.86105777	
43.60	-63.7	-87.2	.00230	512.7	.00000335	.86106113	
42.10	-64.7	-87.6	.00219	515.3	.00000343	.86106455	
40.80	-63.9	-87.8	.00219	521.9	.00000289	.86106744	
39.50	-61.7	-88.3	.00208	532.4	.00000282	.86107026	
38.20	-60.0	-88.8	.00197	541.7	.00000268	.86107294	
36.90	-58.3	-89.5	.00180	551.7	.00000249	.86107543	
35.60	-56.6	-89.5	.00187	561.7	.00000243	.86107786	
34.40	-54.9	-89.6	.00190	571.5	.00000229	.86108015	

WASHINGTON, D.C.		2/13/67	1600Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1026.10	-8.9	-9.5	1.65090	262.4			
983.00	-9.4	-9.5	1.72348	265.1	.07420167	.07420167	
955.00	-10.1	-14.3	1.15141	266.5	.04106969	.11527136	
931.00	-10.1	-21.9	.57349	268.4	.02112110	.13639246	
908.00	-10.4	-18.6	.80887	270.1	.01622151	.15261397	
883.00	-10.8	-16.7	.99119	271.9	.02295978	.17557375	
860.00	-10.1	-15.1	1.18283	274.6	.02551134	.20108509	
846.00	-8.0	-9.5	2.00348	278.2	.02275929	.22384438	
830.00	-8.4	-10.0	1.94749	279.3	.03225265	.25609703	
811.00	-9.6	-9.5	2.09023	279.8	.03914101	.29523805	
795.00	-10.8	-10.0	2.03351	280.2	.03366305	.32890110	
780.00	-11.8	-10.5	1.98189	280.6	.03072996	.35963106	
765.00	-12.5	-11.0	1.93019	281.4	.02993929	.38957036	
753.00	-13.0	-12.0	1.79685	282.1	.02281849	.41238885	
740.00	-13.4	-14.7	1.42849	283.1	.02139245	.43378130	
727.00	-14.0	-14.7	1.45409	283.9	.019111910	.45290039	
715.00	-14.5	-15.1	1.42326	284.7	.01761636	.47051676	
703.00	-15.1	-17.5	1.15980	285.3	.01581454	.48633130	
690.00	-15.8	-20.3	.90352	286.2	.01368517	.50001647	
679.00	-16.6	-23.7	.66107	286.5	.00878081	.50879727	
668.00	-17.5	-22.2	.77663	286.9	.00806868	.51686595	
656.50	-18.4	-23.4	.70294	287.3	.00868107	.52554703	
645.00	-19.4	-23.4	.71548	287.7	.00832233	.53386936	
633.50	-20.2	-21.9	.84318	288.2	.00914516	.54301451	
621.00	-21.3	-22.5	.81065	288.5	.01054733	.55356184	
610.20	-22.5	-24.0	.71505	288.7	.00840688	.56196871	
600.00	-24.0	-25.3	.63459	288.4	.00702356	.56899227	
588.50	-25.1	-25.9	.61405	288.7	.00732617	.57631844	
577.00	-26.5	-27.4	.53765	288.7	.00675738	.58307582	
565.20	-27.6	-29.0	.46411	289.0	.00603095	.58910677	
554.00	-28.9	-30.5	.40409	289.2	.00496112	.59406789	
543.80	-30.2	-30.3	.42100	289.2	.00429380	.59836169	
533.00	-30.8	-40.5	.14103	290.1	.00309686	.60145855	
523.00	-31.3	-44.8	.08811	291.0	.00116907	.60262762	
513.00	-31.9	-48.5	.05726	292.0	.00074168	.60336930	
504.20	-31.9	-51.5	.04045	293.4	.00043871	.60380800	
494.00	-31.9	-54.5	.02805	295.2	.00035651	.60416451	
484.00	-32.0	-54.9	.02710	296.7	.00028141	.604444592	
474.00	-32.1	-55.0	.02737	298.3	.00027791	.60472383	
464.50	-32.4	-55.9	.02506	299.7	.00025411	.60497794	
455.00	-32.6	-57.9	.01963	301.2	.00021659	.60519452	
444.80	-32.1	-58.2	.01926	303.8	.00020239	.60539691	
433.00	-32.8	-58.3	.01958	305.3	.00023384	.60563076	
423.70	-33.7	-57.9	.02108	306.0	.00019291	.60582367	
414.00	-34.8	-57.7	.02204	306.7	.00021335	.60603702	
404.00	-35.5	-57.6	.02306	308.0	.00023006	.60626708	
395.00	-36.0	-57.7	.02310	309.2	.00021191	.60647899	
385.70	-36.3	-58.3	.02198	311.0	.00021388	.60669287	
377.00	-36.3	-57.5	.02496	313.0	.00020836	.60690123	
368.50	-36.0	-56.9	.02750	315.4	.00022751	.60712874	
360.00	-36.4	-57.6	.02560	317.0	.00023028	.60735902	
351.60	-37.1	-60.2	.01866	318.2	.00018969	.60754871	
343.00	-37.7	-61.0	.01712	319.7	.00015701	.60770573	
335.20	-37.1	-61.4	.01650	322.6	.00013378	.60783951	
327.00	-37.1	-62.2	.01530	324.9	.00013302	.60797253	
320.00	-37.7	-62.4	.01503	326.1	.00010832	.60808085	

WASHINGTON, D.C.		2/13/67	1600Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
312.00	-38.6	-62.8	.01467	327.1	.00012121	.60820206
304.00	-39.5	-63.1	.01447	328.3	.00011891	.60832097
297.00	-40.1	-63.2	.01452	329.7	.00010352	.60842448
290.00	-37.9	-65.2	.01129	335.0	.00009216	.60851665
283.00	-36.8	-65.7	.01080	339.0	.00007889	.60859554
281.00	-37.8	-68.5	.00722	338.2	.00001839	.60861392
276.00	-37.5	-70.3	.00563	340.4	.00003278	.60864671
271.00	-37.4	-71.5	.00479	342.4	.00002660	.60867330
266.50	-37.5	-72.4	.00423	343.8	.00002073	.60869403
262.00	-38.2	-73.0	.00393	344.5	.00001875	.60871278
257.30	-38.5	-72.9	.00408	345.8	.00001921	.60873199
253.00	-39.1	-73.6	.00375	346.7	.00001718	.60874917
248.50	-39.9	-73.5	.00386	347.2	.00001745	.60876662
245.00	-40.4	-73.5	.00391	347.9	.00001387	.60878049
240.50	-41.1	-73.6	.00394	348.7	.00001803	.60879852
236.00	-41.2	-74.2	.00362	350.3	.00001737	.60881589
231.80	-41.1	-74.5	.00354	352.4	.00001535	.60883124
228.00	-40.2	-75.0	.00331	355.4	.00001326	.60884450
223.30	-39.8	-75.6	.00307	358.2	.00001529	.60885979
219.00	-40.2	-75.8	.00303	359.5	.00001338	.60887317
214.50	-41.1	-75.9	.00306	360.3	.00001398	.60888715
210.00	-41.5	-76.3	.00296	361.8	.00001383	.60890098
206.50	-42.1	-76.7	.00282	362.6	.00001033	.60891131
202.50	-42.4	-76.9	.00279	364.1	.00001144	.60892275
198.20	-42.6	-76.9	.00282	366.1	.00001229	.60893504
194.00	-43.2	-77.1	.00282	367.4	.00001206	.60894710
190.00	-44.1	-77.4	.00275	368.1	.00001135	.60895845
187.00	-44.6	-77.6	.00267	369.1	.00000830	.60896675
182.60	-45.3	-77.8	.00265	370.3	.00001194	.60897869
179.00	-45.8	-78.3	.00252	371.7	.00000949	.60898818
175.50	-46.1	-78.5	.00249	373.2	.00000894	.60899712
172.00	-47.3	-78.8	.00243	373.5	.00000876	.60900588
168.70	-48.3	-79.0	.00236	373.9	.00000805	.60901393
165.00	-49.6	-79.2	.00236	374.0	.00000891	.60902284
161.80	-50.8	-79.3	.00235	374.1	.00000769	.60903053
158.00	-51.7	-79.5	.00235	375.1	.00000910	.60903963
155.00	-52.8	-79.7	.00231	375.3	.00000714	.60904677
152.00	-53.6	-79.8	.00233	376.2	.00000711	.60905388
149.00	-54.7	-79.8	.00235	376.3	.00000717	.60906105
146.00	-55.3	-80.0	.00232	377.5	.00000714	.60906819
142.80	-55.7	-80.1	.00234	379.2	.00000760	.60907578
139.50	-56.5	-80.3	.00231	380.3	.00000782	.60908361
136.40	-57.3	-80.3	.00236	381.3	.00000739	.60909100
133.00	-58.4	-80.3	.00245	382.2	.00000834	.60909934
130.50	-58.6	-80.5	.00241	383.9	.00000620	.60910554
128.00	-59.0	-80.5	.00243	385.3	.00000617	.60911171
125.00	-59.5	-80.5	.00249	387.1	.00000753	.60911924
122.00	-60.4	-81.0	.00237	388.2	.00000744	.60912667
119.50	-60.6	-81.4	.00225	390.1	.00000589	.60913256
118.00	-60.4	-81.3	.00233	391.9	.00000350	.60913606
114.10	-59.9	-81.6	.00230	396.5	.00000921	.60914527
111.00	-60.6	-81.4	.00242	398.4	.00000745	.60915272
108.50	-61.3	-81.6	.00241	399.7	.00000615	.60915887
106.00	-62.0	-81.7	.00244	401.0	.00000618	.60916506
103.20	-63.2	-82.0	.00238	401.8	.00000688	.60917194

WASHINGTON, D.C.		2/13/67	1600Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
100.60	-63.9	-82.0	.00242	403.3	.00000636	.60917830	
97.80	-64.4	-82.3	.00239	405.5	.00000685	.60918516	
95.50	-65.7	-82.3	.00242	405.7	.00000563	.60919079	
93.20	-66.0	-82.5	.00241	408.0	.00000566	.60919645	
90.80	-63.7	-81.7	.00285	415.8	.00000644	.60920289	
88.50	-61.7	-81.7	.00292	422.7	.00000677	.60920966	
86.10	-60.8	-81.9	.00289	427.9	.00000712	.60921678	
84.00	-60.8	-81.7	.00304	430.9	.00000635	.60922313	
81.80	-60.8	-82.1	.00293	434.2	.00000671	.60922983	
79.40	-60.6	-82.3	.00295	438.4	.00000720	.60923703	
77.20	-60.6	-82.6	.00284	441.9	.00000648	.60924351	
75.10	-60.6	-82.8	.00285	445.4	.00000608	.60924959	
73.00	-60.6	-82.9	.00289	449.0	.00000614	.60925573	
71.00	-59.9	-82.9	.00293	454.1	.00000593	.60926166	
68.90	-59.2	-83.1	.00294	459.4	.00000629	.60926795	
67.00	-58.6	-83.3	.00295	464.5	.00000571	.60927366	
65.00	-58.4	-83.6	.00288	469.0	.00000595	.60927960	
63.10	-58.4	-83.7	.00289	473.0	.00000559	.60928519	
61.10	-58.2	-83.9	.00291	477.8	.00000590	.60929109	
59.30	-57.9	-84.1	.00288	482.4	.00000530	.60929640	
57.50	-57.5	-84.4	.00285	487.6	.00000525	.60930164	
55.60	-57.5	-84.4	.00294	492.3	.00000560	.60930724	
54.00	-57.5	-84.4	.00299	496.5	.00000483	.60931207	
52.30	-57.5	-84.6	.00300	501.0	.00000519	.60931726	
50.80	-57.5	-84.7	.00305	505.2	.00000462	.60932188	
49.20	-57.7	-84.7	.00315	509.3	.00000505	.60932693	
47.60	-58.4	-84.8	.00316	512.6	.00000514	.60933207	
46.20	-58.6	-85.1	.00312	516.5	.00000449	.60933656	
44.50	-58.8	-85.2	.00320	521.6	.00000547	.60934202	
43.20	-59.0	-85.3	.00320	525.5	.00000423	.60934626	
41.80	-58.8	-85.3	.00331	531.0	.00000465	.60935090	
40.50	-58.6	-85.5	.00332	536.3	.00000438	.60935529	
39.00	-57.9	-85.7	.00335	543.8	.00000510	.60936038	
37.60	-57.5	-85.9	.00332	550.5	.00000475	.60936514	
36.30	-57.1	-86.0	.00339	557.2	.00000444	.60936958	
35.00	-56.9	-86.1	.00347	563.6	.00000454	.60937412	
33.80	-56.9	-86.2	.00354	569.2	.00000428	.60937840	
32.50	-56.9	-86.2	.00362	575.6	.00000474	.60938314	
31.20	-56.9	-86.3	.00372	582.4	.00000486	.60938799	
30.00	-56.9	-86.7	.00364	588.9	.00000450	.60939249	
28.75	-56.9	-86.8	.00369	596.1	.00000466	.60939716	
27.50	-56.5	-87.0	.00374	604.9	.00000472	.60940188	
26.20	-55.5	-87.3	.00375	616.2	.00000496	.60940684	
25.00	-54.7	-87.7	.00363	626.7	.00000450	.60941134	
23.90	-54.1	-88.0	.00362	636.5	.00000405	.60941540	
22.80	-53.2	-88.8	.00327	647.9	.00000386	.60941926	
21.70	-52.6	-90.0	.00280	658.8	.00000340	.60942265	
20.70	-51.7	-90.7	.00254	670.5	.00000271	.60942537	
19.60	-51.6	-90.9	.00258	681.6	.00000286	.60942823	
18.70	-51.4	-91.1	.00261	691.3	.00000237	.60943060	
17.80	-51.2	-91.5	.00259	701.7	.00000237	.60943297	
17.00	-50.8	-91.7	.00261	712.1	.00000212	.60943508	

WASHINGTON,D.C.		3/10/67	1650Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)		ΣM (cm)
1019.50	17.2	3.1	4.68791	288.8			
1004.50	16.0	2.2	4.46369	288.8	.07003744	.07003744	
990.00	14.8	2.2	4.52954	288.8	.06653124	.13656868	
972.00	15.3	-5.7	2.42379	290.8	.06385681	.20042549	
954.00	14.4	-1.7	3.46576	291.4	.05408746	.25451295	
937.50	12.9	-3.1	3.13291	291.4	.05554986	.31006281	
920.00	11.6	-4.5	2.85231	291.6	.05343927	.36350209	
903.80	10.5	-4.5	2.90367	292.0	.04757477	.41107686	
887.00	9.2	-5.1	2.79981	292.1	.04888684	.45996369	
871.00	7.8	-6.3	2.56633	292.3	.04380511	.50376880	
855.00	6.5	-7.5	2.36375	292.4	.04024543	.54401423	
838.00	5.1	-7.5	2.41189	292.7	.04142118	.58543541	
823.00	4.0	-8.6	2.22951	293.0	.03552078	.62095618	
809.00	2.7	-9.1	2.16260	293.1	.03137207	.65232825	
795.00	2.2	-10.2	2.00868	294.0	.02979472	.68212298	
780.00	1.3	-14.7	1.35417	294.7	.02573599	.70785896	
765.00	.5	-19.5	.87774	295.4	.01708087	.72493984	
752.00	-.3	-21.5	.74259	296.0	.01074705	.73568688	
738.00	-.7	-22.9	.65451	297.1	.00997928	.74566616	
724.00	-1.4	-26.2	.48415	298.0	.00813328	.75379944	
710.00	-1.6	-26.4	.48176	299.5	.00689934	.76069878	
697.00	-2.0	-22.9	.69306	300.7	.00779216	.76849094	
683.00	-2.2	-12.6	1.88615	302.1	.01842284	.78691378	
671.00	-2.8	-10.7	2.27551	303.0	.02547948	.81239326	
659.00	-3.7	-10.2	2.42484	303.5	.02877754	.84117080	
645.50	-4.8	-9.6	2.59252	304.1	.03455818	.87572898	
632.00	-6.0	-9.1	2.77096	304.6	.03694217	.91267115	
620.00	-7.0	-10.7	2.46344	305.1	.03204717	.94471832	
608.00	-8.4	-11.6	2.30452	305.2	.02919140	.97390972	
595.00	-9.8	-17.4	1.37859	305.4	.02442865	.99833837	
582.00	-10.9	-27.1	.54588	306.2	.01276429	1.01110266	
571.00	-11.9	-34.6	.25357	306.6	.00448671	1.01558937	
560.00	-13.0	-39.9	.14417	307.0	.00223221	1.01782158	
548.80	-14.3	-42.0	.11523	307.3	.00148226	1.01930384	
536.00	-15.2	-44.3	.09115	308.3	.00134774	1.02065158	
525.00	-16.2	-46.1	.07493	308.9	.00093205	1.02158363	
513.00	-17.3	-49.8	.04878	309.6	.00075740	1.02234103	
502.50	-18.6	-49.8	.04980	309.9	.00052811	1.02286914	
496.00	-20.1	-51.7	.03988	309.2	.00029743	1.02316657	
489.00	-20.7	-52.0	.03908	309.7	.00028200	1.02344857	
482.00	-21.4	-52.6	.03662	310.1	.00027035	1.02371892	
475.00	-22.3	-52.8	.03633	310.3	.00026053	1.02397946	
468.00	-23.2	-53.1	.03525	310.5	.00025564	1.02423510	
461.00	-23.8	-53.5	.03423	311.1	.00024813	1.02448323	
454.00	-24.6	-53.7	.03400	311.5	.00024366	1.02472690	
448.00	-24.9	-53.8	.03407	312.3	.00020836	1.02493526	
441.00	-25.4	-53.8	.03423	313.1	.00024390	1.02517916	
435.00	-26.0	-54.1	.03358	313.5	.00020757	1.02538674	
429.00	-26.8	-53.2	.03804	313.8	.00021924	1.02560598	
422.50	-27.4	-45.9	.09564	314.3	.00044331	1.02604929	
416.00	-28.2	-37.6	.25238	314.7	.00115415	1.02720344	
410.50	-28.8	-37.4	.26024	315.1	.00143847	1.02864191	
404.00	-29.7	-37.6	.25988	315.4	.00172488	1.03036679	
400.00	-30.5	-37.6	.26248	315.2	.00106604	1.03143284	
392.00	-31.4	-36.9	.28686	315.9	.00224219	1.03367503	
386.00	-32.4	-37.6	.27201	316.0	.00171079	1.03538582	

WASHINGTON, D.C.		3/10/67	1650Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
380.00	-33.2	-39.2	.23016	316.4	.00153723	1.03692305	
374.00	-34.1	-40.0	.21259	316.6	.00135535	1.03827840	
368.00	-35.1	-41.0	.19386	316.8	.00124422	1.03952262	
362.50	-35.9	-42.4	.16691	317.0	.00101234	1.04053496	
357.00	-36.9	-44.6	.13129	317.1	.00083679	1.04137175	
351.20	-37.9	-46.7	.10359	317.3	.00069505	1.04206680	
345.00	-38.9	-47.1	.10143	317.5	.00064851	1.04271531	
339.50	-39.7	-46.4	.11144	317.8	.00059733	1.04331264	
334.00	-40.6	-47.4	.10081	318.1	.00059561	1.04390825	
328.50	-41.2	-45.9	.12302	318.8	.00062808	1.04453634	
323.00	-42.3	-45.0	.13926	318.9	.00073597	1.04527231	
318.00	-43.3	-45.6	.13050	318.8	.00068815	1.04596046	
312.00	-44.4	-45.9	.12952	319.0	.00079598	1.04675643	
306.20	-45.4	-46.9	.11726	319.4	.00073026	1.04748669	
300.00	-46.5	-47.2	.11514	319.7	.00073510	1.04822180	
295.40	-47.7	-48.0	.10568	319.5	.00051823	1.04874003	
291.00	-48.7	-49.1	.09360	319.4	.00044736	1.04918739	
286.00	-49.2	-50.2	.08340	320.2	.00045152	1.04963891	
280.00	-50.3	-50.6	.08126	320.7	.00050403	1.05014294	
275.00	-51.0	-51.1	.07802	321.3	.00040630	1.05054924	
270.00	-52.2	-51.9	.07161	321.1	.00038169	1.05093093	
265.00	-53.2	-53.1	.06225	321.5	.00034149	1.05127242	
260.00	-54.3	-54.2	.05557	321.6	.00030054	1.05157296	
255.50	-55.3	-56.8	.04056	321.7	.00022069	1.05179365	
250.00	-56.5	-57.5	.03734	321.9	.00021859	1.05201223	
246.50	-57.6	-58.2	.03488	321.7	.00012895	1.05214119	
242.00	-58.2	-58.7	.03306	322.4	.00015597	1.05229716	
237.00	-58.9	-59.3	.03112	323.3	.00016372	1.05246088	
232.50	-58.9	-60.6	.02672	325.1	.00013280	1.05259368	
228.00	-58.2	-62.3	.02147	327.9	.00011064	1.05270432	
223.00	-57.4	-67.9	.00999	331.3	.00008026	1.05278458	
219.00	-56.3	-69.9	.00756	334.6	.00003582	1.05282040	
214.00	-56.1	-69.6	.00805	337.2	.00003982	1.05286022	
210.00	-56.1	-68.7	.00943	339.0	.00003566	1.05289587	
206.00	-55.9	-69.3	.00879	341.2	.00003716	1.05293304	
202.00	-54.9	-70.5	.00749	344.7	.00003321	1.05296625	
198.00	-54.3	-71.7	.00637	347.6	.00002830	1.05299455	
194.00	-53.9	-74.8	.00404	350.2	.00002125	1.05301580	
190.00	-54.3	-75.6	.00363	351.7	.00001563	1.05303143	
186.00	-54.5	-76.0	.00347	353.5	.00001447	1.05304590	
182.00	-54.7	-76.7	.00318	355.4	.00001356	1.05305946	
178.00	-54.7	-77.6	.00284	357.7	.00001228	1.05307174	
174.00	-54.7	-78.1	.00269	360.0	.00001128	1.05308302	
170.50	-54.7	-78.5	.00253	362.1	.00000931	1.05309233	
167.00	-54.9	-78.5	.00258	363.9	.00000912	1.05310145	
163.50	-55.1	-78.5	.00267	365.8	.00000937	1.05311082	
160.00	-56.1	-78.3	.00282	366.4	.00000979	1.05312061	
156.60	-57.2	-78.7	.00269	366.9	.00000955	1.05313016	
153.00	-58.0	-79.0	.00263	367.9	.00000976	1.05313993	
150.00	-58.4	-79.0	.00268	369.2	.00000812	1.05314805	
146.00	-59.1	-80.4	.00217	370.9	.00000989	1.05315794	
142.50	-59.5	-81.5	.00187	372.7	.00000720	1.05316514	
139.00	-60.2	-81.0	.00209	374.2	.00000706	1.05317220	
136.00	-60.4	-81.6	.00193	376.1	.00000615	1.05317836	
133.00	-61.1	-82.1	.00181	377.3	.00000572	1.05318408	

WASHINGTON, D.C.		3/10/67	1650Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
130.00	-62.1	-82.6	.00169	378.1	.00000535	1.05318943
127.00	-62.8	-81.6	.00204	379.3	.00000571	1.05319513
124.30	-63.3	-81.0	.00231	380.7	.00000599	1.05320112
121.50	-63.6	-81.6	.00216	382.7	.00000638	1.05320750
118.70	-64.1	-81.5	.00224	384.4	.00000629	1.05321379
116.00	-64.4	-81.5	.00230	386.4	.00000624	1.05322003
113.00	-64.6	-82.2	.00210	388.8	.00000672	1.05322675
110.00	-64.9	-82.5	.00205	391.3	.00000635	1.05323310
107.70	-65.1	-82.3	.00215	393.2	.00000492	1.05323802
105.00	-65.1	-82.2	.00223	396.1	.00000602	1.05324404
101.70	-65.1	-82.2	.00233	399.7	.00000767	1.05325171
98.20	-65.4	-82.2	.00239	403.2	.00000842	1.05326013
95.70	-65.9	-82.4	.00239	405.1	.00000608	1.05326621
93.10	-65.9	-82.6	.00236	408.3	.00000629	1.05327250
90.70	-65.9	-82.5	.00248	411.4	.00000592	1.05327842
88.20	-65.9	-83.1	.00230	414.7	.00000609	1.05328451
86.00	-65.7	-82.7	.00252	418.2	.00000539	1.05328991
83.80	-65.4	-82.7	.00258	421.9	.00000572	1.05329563
81.50	-64.9	-83.1	.00249	426.3	.00000595	1.05330157
79.20	-65.1	-83.3	.00249	429.3	.00000584	1.05330741
77.10	-66.2	-83.3	.00253	430.3	.00000536	1.05331278
75.00	-65.9	-83.3	.00263	434.3	.00000551	1.05331829
73.00	-65.7	-83.3	.00270	438.3	.00000544	1.05332373
71.00	-65.4	-83.6	.00263	442.3	.00000544	1.05332917
69.00	-65.1	-83.8	.00260	446.5	.00000533	1.05333450
67.10	-64.1	-83.9	.00264	452.4	.00000507	1.05333957
65.30	-63.1	-84.4	.00249	458.1	.00000471	1.05334428
63.30	-61.6	-84.1	.00268	465.4	.00000528	1.05334955
61.70	-60.2	-84.0	.00283	471.9	.00000450	1.05335405
60.00	-58.9	-84.4	.00271	478.7	.00000480	1.05335885
58.10	-57.8	-84.8	.00261	485.6	.00000516	1.05336401
56.30	-57.6	-84.9	.00266	490.5	.00000483	1.05336884
54.60	-58.2	-85.1	.00262	493.3	.00000457	1.05337341
53.00	-58.4	-85.5	.00255	497.0	.00000422	1.05337763
51.30	-58.2	-85.5	.00264	502.2	.00000449	1.05338211
49.70	-57.8	-85.6	.00264	507.8	.00000431	1.05338642
48.00	-57.2	-85.8	.00265	514.3	.00000459	1.05339101
46.40	-56.7	-86.1	.00259	520.3	.00000428	1.05339529
44.80	-57.2	-86.2	.00264	524.6	.00000426	1.05339955
43.30	-57.6	-86.5	.00261	528.7	.00000401	1.05340356
41.90	-58.2	-86.6	.00265	532.1	.00000376	1.05340731
40.30	-57.4	-86.8	.00263	540.2	.00000431	1.05341162
38.80	-56.3	-87.1	.00261	548.7	.00000401	1.05341563
37.40	-55.7	-87.3	.00262	556.0	.00000373	1.05341935
36.00	-55.1	-87.6	.00260	563.7	.00000373	1.05342308
34.80	-54.9	-88.0	.00248	569.7	.00000310	1.05342618
33.50	-54.9	-88.2	.00249	575.9	.00000329	1.05342947
32.10	-54.5	-88.5	.00247	584.0	.00000353	1.05343300
30.80	-53.9	-88.9	.00237	592.5	.00000320	1.05343620
29.60	-53.7	-89.2	.00234	599.8	.00000288	1.05343908
28.25	-53.9	-89.4	.00237	607.3	.00000323	1.05344231
27.00	-53.6	-89.6	.00239	616.3	.00000302	1.05344534
25.75	-53.0	-90.3	.00221	626.4	.00000292	1.05344826
24.50	-52.1	-91.0	.00203	638.0	.00000270	1.05345096
23.30	-49.7	-91.2	.00206	654.1	.00000250	1.05345346

WASHINGTON, D.C.		3/10/67	1650Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
22.20	-49.0	-91.5	.00204	665.2	.00000229	1.05345576	
21.25	-49.5	-92.0	.00196	672.0	.00000194	1.05345769	
20.30	-49.4	-92.1	.00202	681.4	.00000192	1.05345961	
19.53	-48.7	-92.3	.00201	691.1	.00000158	1.05346119	
18.70	-48.0	-92.6	.00197	701.8	.00000168	1.05346288	
17.95	-47.5	-93.0	.00193	711.7	.00000149	1.05346437	
17.20	-47.3	-93.2	.00193	720.9	.00000148	1.05346584	
16.54	-47.3	-93.4	.00192	729.0	.00000130	1.05346714	
15.90	-47.3	-93.7	.00191	737.3	.00000125	1.05346839	
15.25	-47.5	-93.8	.00195	745.6	.00000127	1.05346966	
14.70	-47.2	-94.5	.00176	754.6	.00000103	1.05347069	
14.14	-46.8	-94.6	.00179	764.1	.00000101	1.05347170	
13.55	-46.2	-94.9	.00178	775.7	.00000107	1.05347277	
13.05	-45.7	-95.1	.00176	785.8	.00000089	1.05347367	
12.60	-45.4	-95.4	.00174	794.8	.00000079	1.05347446	
12.17	-45.2	-95.5	.00176	803.3	.00000076	1.05347522	
11.75	-45.2	-95.7	.00173	811.4	.00000075	1.05347596	
11.35	-45.2	-96.0	.00170	819.4	.00000070	1.05347666	
10.95	-45.2	-96.1	.00172	827.9	.00000069	1.05347735	
10.55	-45.2	-96.5	.00165	836.7	.00000069	1.05347803	
10.20	-45.2	-96.7	.00166	844.8	.00000058	1.05347861	
10.00	-45.2	-96.8	.00165	849.6	.00000033	1.05347894	

WASHINGTON, D.C.		4/12/67	1940Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.00	7.9	-13.8	1.12920	279.6		
1003.00	6.9	-14.2	1.10392	279.8	.01709013	.01709013
989.00	5.8	-14.6	1.07726	279.9	.01557982	.03266995
972.00	4.7	-15.4	1.01801	280.1	.01817323	.05084318
955.00	3.5	-15.0	1.07394	280.4	.01814440	.06898758
939.00	2.4	-14.6	1.13473	280.6	.01802990	.08701748
923.00	1.4	-15.4	1.07215	281.0	.01801527	.10503274
909.00	.6	-17.3	.91293	281.3	.01417904	.11921178
893.00	1.6	-24.3	.47039	283.8	.01129235	.13050413
880.00	2.7	-29.7	.27778	286.1	.00496238	.13546652
867.00	3.3	-30.3	.26456	287.9	.00359716	.13906367
852.50	3.4	-33.1	.19970	289.5	.00343457	.14249824
839.00	3.4	-40.0	.09544	290.8	.00203282	.14453106
826.00	3.1	-40.6	.08999	291.8	.00122987	.14576092
813.00	2.6	-39.2	.10793	292.5	.00131275	.14707367
800.00	1.9	-33.5	.20500	293.1	.00207554	.14914921
790.00	.9	-29.5	.31624	293.1	.00265938	.15180859
778.00	.3	-26.3	.44175	293.8	.00464074	.15644933
767.00	.2	-25.4	.49473	294.9	.00525571	.16170505
755.00	-.1	-25.9	.47785	295.9	.00595455	.16765960
743.00	-.5	-26.3	.46257	296.8	.00575767	.17341727
733.00	-1.0	-26.3	.46889	297.4	.00475232	.17816959
722.00	-1.7	-27.1	.44308	297.9	.00511815	.18328774
712.50	-2.2	-28.6	.38263	298.5	.00400215	.18728989
702.00	-2.9	-30.9	.30730	299.0	.00369602	.19098592
693.00	-3.3	-31.1	.30491	299.7	.00281112	.19379704
683.00	-4.1	-33.8	.23141	300.0	.00273627	.19653331
674.20	-4.6	-36.1	.18293	300.6	.00186026	.19839357
666.00	-5.0	-38.7	.13805	301.2	.00134283	.19973640
657.00	-5.7	-39.3	.13149	301.6	.00123766	.20097406
648.00	-6.3	-40.0	.12357	302.1	.00117119	.20214525
638.70	-7.1	-40.4	.11994	302.4	.00115542	.20330067
629.00	-8.1	-39.6	.13322	302.6	.00125287	.20455354
618.50	-8.9	-40.8	.11849	303.1	.00134844	.20590198
608.00	-9.5	-41.0	.11708	303.9	.00126195	.20716393
595.50	-10.4	-42.1	.10508	304.7	.00141679	.20858072
586.00	-11.6	-43.4	.09181	304.8	.00095429	.20953500
573.80	-12.7	-44.8	.07996	305.3	.00106913	.21060413
561.50	-13.8	-45.1	.07863	305.8	.00099520	.21159934
550.70	-14.7	-39.6	.15217	306.5	.00127174	.21287107
540.00	-15.3	-34.6	.26727	307.5	.00228977	.21516085
529.70	-16.3	-34.1	.28768	308.0	.00291632	.21807717
520.00	-17.2	-29.9	.46055	308.6	.00370297	.22178014
508.50	-18.0	-26.6	.66041	309.5	.00657701	.22835715
498.00	-18.8	-24.6	.82204	310.4	.00794163	.23629878
489.00	-19.5	-24.6	.83719	311.2	.00761887	.24391766
479.00	-20.5	-25.4	.79257	311.8	.00831504	.25223270
468.20	-21.1	-33.5	.35036	313.0	.00629772	.25853042
459.00	-21.9	-31.6	.43342	313.9	.00367895	.26220937
449.20	-22.6	-28.8	.59417	314.9	.00513792	.26734729
439.50	-26.1	-27.1	.72821	312.4	.00654441	.27389170
432.00	-26.2	-26.1	.81587	313.8	.00590844	.27980015
425.00	-26.2	-25.9	.84940	315.3	.00594735	.28574750
418.00	-26.4	-25.9	.86364	316.6	.00611797	.29186547
411.00	-27.0	-26.6	.81728	317.4	.00600325	.29786871
404.00	-27.5	-29.3	.63198	318.3	.00517590	.30304462

WASHINGTON, D.C.		4/12/67	1940Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
397.00	-28.1	-30.5	.56640	319.0	.00427990	.30732451	
390.00	-28.8	-32.4	.47173	319.8	.00370757	.31103209	
383.00	-29.5	-33.5	.42835	320.5	.00321455	.31424664	
376.00	-30.2	-32.2	.49867	321.3	.00331077	.31755741	
369.50	-31.1	-32.6	.48824	321.7	.00327289	.32083030	
363.00	-32.0	-33.8	.43582	322.1	.00306354	.32389385	
356.50	-32.8	-35.1	.38382	322.8	.00271726	.32661110	
350.50	-33.7	-34.5	.41943	323.1	.00245889	.32906999	
344.20	-34.6	-37.5	.30833	323.5	.00233920	.33140919	
338.00	-35.6	-39.0	.26376	323.9	.00180967	.33321886	
332.00	-36.5	-40.1	.23774	324.3	.00153519	.33475405	
326.00	-37.5	-40.2	.23845	324.6	.00145772	.33621177	
320.00	-38.2	-40.5	.23586	325.4	.00145198	.33766375	
314.00	-39.2	-42.3	.19661	325.8	.00132388	.33898763	
308.50	-40.2	-44.6	.15272	326.0	.00098024	.33996788	
303.00	-41.5	-46.3	.12676	325.9	.00078425	.34075212	
297.80	-42.5	-47.4	.11267	326.1	.00063522	.34138735	
292.00	-43.2	-48.8	.09731	326.8	.00062138	.34200872	
286.00	-43.8	-50.4	.08177	327.9	.00054820	.34255692	
280.50	-45.2	-50.4	.08337	327.8	.00046340	.34302032	
275.20	-46.6	-51.7	.07196	327.5	.00042002	.34344034	
270.00	-47.8	-52.0	.07098	327.6	.00037919	.34381953	
264.00	-48.8	-53.4	.06051	328.3	.00040250	.34422202	
259.00	-49.9	-54.1	.05670	328.4	.00029901	.34452103	
254.00	-50.8	-54.6	.05377	328.9	.00028181	.34480284	
249.00	-51.7	-54.9	.05262	329.5	.00027139	.34507424	
243.30	-52.9	-57.5	.03864	329.8	.00026539	.34533963	
238.50	-53.9	-58.0	.03678	330.3	.00018468	.34552431	
233.60	-54.8	-59.3	.03181	330.8	.00017147	.34569578	
229.00	-55.2	-60.3	.02836	332.1	.00014120	.34583698	
224.00	-55.4	-62.7	.02077	333.9	.00012532	.34596230	
220.00	-55.8	-63.2	.01980	335.0	.00008279	.34604509	
214.30	-56.8	-63.1	.02051	336.0	.00011723	.34616232	
209.00	-57.4	-63.1	.02104	337.5	.00011234	.34627466	
203.20	-58.0	-63.6	.02025	339.2	.00012217	.34639683	
198.30	-58.8	-64.5	.01819	340.3	.00009611	.34649295	
194.00	-59.7	-65.2	.01673	341.0	.00007661	.34656955	
190.00	-60.1	-66.3	.01467	342.4	.00006409	.34663364	
185.60	-60.8	-66.8	.01393	343.6	.00006419	.34669784	
181.00	-59.5	-69.1	.01021	348.2	.00005665	.34675449	
177.00	-54.6	-77.7	.00280	358.4	.00002655	.34678105	
173.00	-50.8	-78.4	.00256	367.1	.00001092	.34679197	
169.00	-50.4	-78.6	.00253	370.1	.00001037	.34680234	
165.00	-50.6	-79.0	.00244	372.4	.00001015	.34681249	
161.30	-51.7	-79.3	.00236	373.0	.00000906	.34682155	
157.00	-52.9	-79.2	.00245	373.8	.00001054	.34683208	
153.60	-53.7	-79.3	.00248	374.9	.00000854	.34684062	
150.00	-54.8	-79.2	.00260	375.5	.00000931	.34684993	
146.40	-55.0	-79.3	.00260	377.7	.00000954	.34685947	
143.00	-53.9	-79.8	.00248	382.3	.00000879	.34686826	
139.00	-53.1	-80.5	.00226	386.7	.00000964	.34687790	
135.00	-52.4	-80.5	.00232	391.2	.00000933	.34688723	
131.70	-53.3	-80.9	.00224	392.4	.00000767	.34689490	
128.00	-54.0	-80.9	.00227	394.2	.00000851	.34690341	
124.80	-54.8	-81.2	.00222	395.7	.00000733	.34691074	

WASHINGTON, D.C.		4/12/67	1940Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
121.50	-55.8	-81.6	.00214	397.0	.00000733	.34691808	
118.20	-56.8	-81.6	.00220	398.3	.00000729	.34692536	
115.00	-57.8	-81.7	.00223	399.5	.00000723	.34693259	
111.70	-58.8	-81.7	.00230	400.9	.00000761	.34694020	
108.50	-59.0	-82.0	.00225	403.9	.00000741	.34694761	
105.70	-59.3	-82.2	.00225	406.5	.00000641	.34695402	
103.00	-59.5	-82.3	.00225	409.1	.00000618	.34696020	
100.00	-59.7	-82.6	.00219	412.1	.00000679	.34696700	
97.50	-60.1	-82.8	.00219	414.3	.00000559	.34697258	
94.70	-60.8	-82.9	.00223	416.4	.00000630	.34697889	
92.00	-61.0	-83.0	.00223	419.4	.00000612	.34698501	
89.30	-62.0	-83.0	.00233	421.2	.00000627	.34699129	
86.70	-63.1	-83.3	.00227	422.4	.00000609	.34699738	
84.20	-63.6	-83.3	.00234	424.9	.00000587	.34700325	
81.70	-63.6	-83.3	.00241	428.6	.00000605	.34700930	
79.00	-63.6	-82.9	.00267	432.7	.00000699	.34701629	
76.70	-61.7	-83.0	.00268	440.4	.00000626	.34702255	
74.40	-60.4	-83.1	.00272	447.1	.00000632	.34702887	
72.20	-59.3	-83.3	.00273	453.2	.00000611	.34703498	
70.10	-59.7	-83.5	.00270	456.2	.00000581	.34704079	
68.00	-60.8	-83.5	.00278	457.7	.00000586	.34704664	
65.90	-61.7	-83.5	.00287	459.9	.00000605	.34705269	
63.80	-62.0	-83.3	.00309	463.6	.00000638	.34705907	
61.80	-62.4	-83.1	.00328	466.8	.00000648	.34706555	
59.80	-62.7	-83.3	.00329	470.7	.00000669	.34707224	
57.80	-61.7	-83.6	.00323	477.4	.00000665	.34707889	
55.80	-61.0	-83.8	.00325	483.8	.00000660	.34708549	
53.90	-60.4	-84.1	.00318	490.2	.00000623	.34709172	
52.00	-60.1	-84.4	.00312	495.8	.00000609	.34709781	
50.20	-59.7	-84.6	.00314	501.8	.00000574	.34710355	
48.40	-59.3	-84.5	.00330	508.1	.00000590	.34710945	
46.70	-58.8	-84.7	.00328	514.3	.00000569	.34711514	
45.00	-58.4	-85.0	.00325	520.9	.00000566	.34712081	
43.20	-58.0	-85.1	.00334	528.0	.00000605	.34712686	
41.50	-57.8	-85.1	.00348	534.6	.00000590	.34713276	
39.70	-57.8	-85.2	.00358	541.4	.00000648	.34713924	
38.00	-57.8	-85.6	.00347	548.2	.00000611	.34714535	
36.25	-57.6	-85.9	.00348	556.2	.00000620	.34715155	
34.40	-57.4	-86.3	.00339	565.1	.00000648	.34715803	
32.80	-57.2	-85.8	.00390	573.4	.00000595	.34716398	
31.10	-56.8	-86.3	.00375	583.3	.00000663	.34717061	
29.70	-56.2	-86.1	.00405	592.6	.00000557	.34717618	
28.20	-55.8	-86.5	.00401	602.6	.00000617	.34718235	
26.60	-55.4	-87.4	.00363	613.8	.00000623	.34718858	
25.20	-54.6	-87.4	.00383	625.6	.00000532	.34719390	
24.00	-53.7	-88.1	.00352	637.1	.00000449	.34719838	
22.80	-53.1	-88.5	.00346	648.1	.00000426	.34720264	
21.80	-52.0	-88.5	.00361	659.7	.00000361	.34720625	
20.80	-51.3	-88.9	.00353	670.8	.00000364	.34720989	
19.80	-50.6	-89.1	.00358	682.4	.00000362	.34721351	
19.00	-50.3	-89.2	.00367	691.6	.00000295	.34721646	
18.24	-50.1	-89.5	.00362	700.3	.00000282	.34721927	
17.60	-49.9	-90.5	.00311	708.0	.00000219	.34722146	
17.10	-49.8	-90.9	.00295	714.4	.00000153	.34722300	
16.55	-49.6	-90.6	.00324	721.6	.00000173	.34722473	

WASHINGTON, D.C.		4/12/67	1940Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
16.15	-49.1	-90.5	.00338	728.3	.00000134	.34722607	
15.70	-48.9	-91.2	.00309	734.8	.00000148	.34722754	
15.35	-48.6	-91.7	.00286	740.6	.00000106	.34722860	
14.90	-48.4	-91.9	.00282	747.5	.00000130	.34722990	
14.60	-48.3	-91.8	.00294	752.4	.00000088	.34723078	
14.30	-48.1	-91.8	.00301	757.4	.00000091	.34723169	
14.05	-47.9	-91.9	.00300	761.8	.00000076	.34723245	
13.80	-47.8	-92.3	.00286	766.3	.00000075	.34723319	
13.55	-47.3	-92.6	.00273	772.0	.00000070	.34723389	
13.30	-47.0	-93.2	.00249	777.2	.00000066	.34723455	
13.13	-46.8	-93.4	.00241	780.6	.00000042	.34723496	
13.00	-46.6	-93.7	.00232	783.4	.00000031	.34723528	

WASHINGTON,D.C..		5/18/67	1920Z	P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1015.50	17.8	2.3	4.43563	289.6						
1005.00	17.2	2.3	4.48231	290.0	.04777448				.04777448	
1001.00	16.5	1.5	4.24684	289.6	.01781450				.06558898	
980.00	15.8	2.3	4.59750	290.7	.09476034				.16034932	
955.00	15.0	3.1	4.99619	291.9	.12236801				.28271733	
947.00	16.0	3.9	5.35757	293.7	.04226007				.32497740	
932.00	15.0	3.1	5.12050	294.0	.08018900				.40516640	
921.00	13.8	2.3	4.89434	293.8	.05620550				.46137190	
910.00	12.6	1.5	4.67471	293.6	.05370362				.51507552	
900.00	11.6	.7	4.46849	293.5	.04664882				.56172433	
889.00	10.5	.7	4.52419	293.4	.05046894				.61219327	
878.00	9.3	-.0	4.34663	293.1	.04978497				.66197824	
866.00	8.3	-.8	4.14998	293.3	.05201982				.71399806	
855.00	7.4	-2.1	3.75103	293.4	.04434220				.75834027	
843.00	6.5	-2.8	3.59851	293.6	.04499699				.80333726	
832.00	5.6	-3.4	3.46076	293.8	.03961818				.84295544	
821.00	4.7	-5.8	2.86021	294.0	.03547466				.87843010	
811.00	4.0	-6.3	2.76287	294.2	.02868903				.90711913	
802.00	3.1	-8.4	2.32528	294.3	.02336384				.93048297	
790.00	2.7	-11.2	1.84180	295.1	.02551262				.95599559	
780.00	2.3	-14.1	1.43676	295.7	.01672727				.97272286	
770.00	2.0	-16.6	1.14829	296.5	.01318897				.98591183	
760.00	1.3	-14.1	1.47466	296.8	.01338233				.99929416	
750.00	.6	-14.1	1.49437	297.2	.01514803				1.01444219	
740.00	.0	-18.0	1.05472	297.7	.01300550				1.02744769	
730.00	-.8	-20.1	.87100	298.0	.00982508				1.03727277	
720.00	-1.4	-23.4	.64260	298.6	.00772244				1.04499520	
710.00	-2.0	-31.2	.29337	299.0	.00477536				1.04977056	
700.00	-2.6	-31.4	.29216	299.6	.00298740				1.05275796	
690.00	-3.5	-31.2	.30188	299.8	.00303081				1.05578877	
680.50	-3.9	-29.7	.35733	300.5	.00319514				1.05898391	
671.00	-4.7	-31.2	.31043	300.9	.00323658				1.06222048	
661.50	-5.4	-31.2	.31489	301.4	.00303091				1.06525140	
652.00	-6.2	-29.9	.36583	301.7	.00329940				1.06855080	
644.00	-6.9	-26.0	.55291	301.9	.00374992				1.07230072	
636.00	-7.7	-29.3	.39786	302.1	.00388066				1.07618138	
627.50	-8.2	-27.9	.46616	302.7	.00374700				1.07992838	
619.00	-9.0	-29.1	.41726	303.0	.00383110				1.08375949	
611.00	-9.8	-29.9	.39039	303.2	.00329651				1.08705600	
603.00	-10.4	-34.8	.23421	303.6	.00254938				1.08960538	
595.00	-10.9	-34.2	.25396	304.2	.00199252				1.09159790	
588.00	-11.7	-33.3	.28492	304.3	.00192456				1.09352246	
580.00	-12.3	-32.4	.31572	304.8	.00245158				1.09597404	
572.00	-12.9	-31.6	.35089	305.3	.00272088				1.09869492	
565.00	-13.5	-29.9	.42220	305.6	.00276102				1.10145594	
558.00	-14.2	-30.7	.39535	306.0	.00291978				1.10437572	
550.50	-14.9	-26.4	.61858	306.3	.00387980				1.10825552	
542.00	-15.7	-24.6	.75586	306.7	.00596055				1.11421607	
536.00	-16.4	-25.1	.72845	306.8	.00454377				1.11875984	
529.00	-17.3	-26.9	.61594	307.0	.00480136				1.12356120	
522.50	-18.0	-27.3	.59662	307.2	.00402121				1.12758242	
516.00	-18.9	-28.5	.53242	307.2	.00374424				1.13132666	
509.00	-19.5	-29.1	.50750	307.7	.00371401				1.13504067	
503.00	-20.2	-30.5	.44722	307.8	.00292261				1.13796328	
496.00	-21.1	-31.2	.42004	308.0	.00309733				1.14106061	
488.00	-21.7	-32.3	.38226	308.7	.00327465				1.1433526	

WASHINGTON, D.C.		5/18/67	1920Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
481.50	-22.5	-33.4	.34210	308.8	.00240219	1.14673744	
475.00	-23.1	-35.0	.29257	309.3	.00210474	1.14884219	
468.00	-23.9	-36.0	.26486	309.7	.00199081	1.15083300	
462.00	-24.7	-36.0	.26830	309.8	.00163212	1.15246512	
456.00	-25.5	-34.8	.30975	310.0	.00176953	1.15423465	
450.00	-26.3	-34.5	.32451	310.1	.00194159	1.15617624	
443.00	-27.3	-34.7	.32429	310.2	.00231713	1.15849337	
436.00	-28.3	-36.0	.28431	310.4	.00217354	1.16066691	
429.50	-29.2	-35.9	.29334	310.6	.00191565	1.16258256	
423.00	-30.2	-36.0	.29305	310.7	.00194463	1.16452719	
416.50	-31.1	-37.9	.24336	310.9	.00177889	1.16630608	
410.00	-32.1	-40.3	.18757	311.0	.00142908	1.16773516	
405.50	-33.0	-42.9	.14106	310.8	.00075451	1.16848966	
398.00	-34.0	-43.6	.13303	311.2	.00104880	1.16953847	
391.00	-34.9	-42.9	.14630	311.5	.00099757	1.17053604	
384.00	-35.8	-42.7	.15288	311.9	.00106847	1.17160451	
378.90	-36.9	-42.6	.15701	311.7	.00080633	1.17241085	
373.00	-37.8	-46.8	.09725	311.9	.00076538	1.17317623	
367.00	-38.7	-46.0	.10868	312.3	.00063039	1.17380662	
361.00	-39.5	-47.4	.09369	312.6	.00061949	1.17442611	
355.30	-40.3	-50.1	.06802	313.0	.00047025	1.17489636	
350.00	-41.1	-50.3	.06757	313.2	.00036663	1.17526299	
344.20	-42.1	-49.8	.07255	313.3	.00041462	1.17567761	
338.00	-43.0	-48.0	.09235	313.8	.00052163	1.17619924	
333.00	-43.9	-46.6	.11152	313.9	.00052007	1.17671931	
328.00	-44.8	-47.2	.10552	314.1	.00055367	1.17727298	
323.00	-45.2	-50.5	.07087	314.8	.00044999	1.17772296	
318.00	-46.0	-51.5	.06402	315.2	.00034411	1.17806707	
313.00	-46.7	-52.5	.05733	315.6	.00030957	1.17837664	
307.50	-47.6	-53.4	.05211	315.9	.00030710	1.17868374	
303.00	-48.6	-54.3	.04728	315.9	.00022818	1.17891192	
297.50	-49.6	-54.9	.04443	316.2	.00025734	1.17916927	
292.00	-50.4	-55.0	.04437	316.7	.00024918	1.17941844	
287.00	-51.2	-56.2	.03891	317.1	.00021245	1.17963089	
282.00	-51.9	-56.5	.03808	317.7	.00019640	1.17982729	
221.00	-57.2	-66.5	.01231	332.5	.00156814	1.18139543	
217.00	-57.9	-66.4	.01266	333.0	.00005093	1.18144636	
213.00	-58.3	-66.2	.01327	334.2	.00005290	1.18149926	
209.00	-58.7	-66.7	.01265	335.4	.00005288	1.18155214	
205.00	-57.0	-67.5	.01138	340.0	.00004902	1.18160117	
201.00	-55.4	-73.4	.00486	344.3	.00003313	1.18163429	
196.70	-54.9	-75.7	.00347	347.3	.00001827	1.18165256	
193.00	-54.7	-76.7	.00302	349.5	.00001225	1.18166481	
189.50	-55.1	-76.9	.00297	350.8	.00001070	1.18167551	
186.00	-55.4	-77.0	.00296	352.0	.00001059	1.18168610	
182.20	-56.2	-77.6	.00275	352.9	.00001107	1.18169717	
178.00	-55.4	-78.2	.00256	356.5	.00001138	1.18170856	
174.50	-54.9	-78.9	.00234	359.4	.00000875	1.18171731	
171.00	-54.7	-79.0	.00233	361.8	.00000834	1.18172565	
167.50	-55.1	-79.2	.00232	363.3	.00000831	1.18173397	
164.00	-55.4	-79.5	.00226	364.9	.00000818	1.18174215	
160.60	-55.4	-79.6	.00225	367.1	.00000781	1.18174995	
157.00	-55.4	-79.7	.00227	369.5	.00000830	1.18175825	
153.20	-55.6	-79.8	.00230	371.8	.00000885	1.18176711	
149.30	-56.4	-80.1	.00224	373.2	.00000903	1.18177614	

WASHINGTON, D.C.		5/18/67	1920Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
145.70	-56.8	-80.6	.00213	375.2	.00000802	1.18178415	
142.00	-56.8	-80.7	.00212	378.0	.00000802	1.18179217	
138.50	-56.8	-80.7	.00218	380.7	.00000767	1.18179984	
135.00	-56.8	-80.9	.00218	383.5	.00000776	1.18180761	
132.00	-56.8	-81.1	.00214	385.9	.00000660	1.18181421	
129.00	-56.8	-81.2	.00216	388.5	.00000657	1.18182078	
125.70	-56.6	-81.2	.00222	391.7	.00000736	1.18182814	
122.00	-56.4	-81.6	.00213	395.4	.00000821	1.18183635	
119.70	-56.2	-81.8	.00212	397.9	.00000498	1.18184133	
117.00	-56.4	-81.9	.00214	400.2	.00000586	1.18184718	
113.80	-56.6	-81.9	.00217	403.0	.00000702	1.18185420	
111.00	-55.4	-82.0	.00219	408.0	.00000621	1.18186042	
108.00	-54.9	-82.1	.00222	412.2	.00000675	1.18186717	
105.00	-53.8	-82.1	.00229	417.6	.00000688	1.18187405	
102.20	-53.1	-82.0	.00238	422.2	.00000666	1.18188071	
99.50	-53.1	-82.0	.00244	425.5	.00000665	1.18188736	
97.10	-53.6	-82.2	.00244	427.4	.00000598	1.18189333	
94.80	-54.5	-82.3	.00243	428.6	.00000571	1.18189904	
92.40	-55.1	-82.5	.00242	430.7	.00000593	1.18190497	
90.00	-55.8	-82.8	.00238	432.4	.00000587	1.18191084	
87.60	-56.4	-82.9	.00241	434.6	.00000587	1.18191671	
85.10	-57.0	-82.9	.00245	437.1	.00000620	1.18192291	
83.00	-57.6	-83.4	.00230	439.0	.00000508	1.18192799	
80.80	-57.4	-83.7	.00226	442.8	.00000511	1.18193310	
78.50	-56.8	-83.9	.00226	447.7	.00000530	1.18193841	
76.10	-56.2	-84.0	.00230	452.9	.00000557	1.18194398	
74.00	-55.4	-84.0	.00236	458.1	.00000499	1.18194897	
71.90	-55.3	-84.0	.00243	462.3	.00000513	1.18195410	
69.60	-54.7	-84.0	.00251	467.8	.00000580	1.18195990	
67.00	-54.5	-84.0	.00261	473.3	.00000679	1.18196669	
65.10	-54.5	-84.1	.00265	477.2	.00000508	1.18197177	
63.00	-54.4	-84.2	.00265	482.1	.00000568	1.18197745	
61.00	-54.4	-84.6	.00258	486.5	.00000533	1.18198279	
59.00	-54.5	-84.6	.00266	490.8	.00000533	1.18198812	
56.90	-54.7	-84.8	.00268	495.5	.00000572	1.18199384	
55.00	-54.9	-84.9	.00273	499.9	.00000523	1.18199907	
53.10	-55.1	-85.0	.00274	504.5	.00000529	1.18200436	
51.30	-54.9	-85.2	.00275	509.9	.00000504	1.18200940	
49.60	-54.5	-85.6	.00266	515.7	.00000468	1.18201408	
48.00	-54.4	-85.8	.00267	521.0	.00000435	1.18201843	
46.40	-53.8	-86.0	.00267	527.4	.00000435	1.18202278	
44.70	-53.5	-86.1	.00273	533.9	.00000466	1.18202744	
43.20	-52.8	-86.3	.00268	540.9	.00000413	1.18203157	
41.70	-52.4	-86.5	.00269	547.2	.00000410	1.18203567	
40.30	-51.7	-86.7	.00269	554.3	.00000383	1.18203950	
38.80	-51.7	-86.9	.00270	560.3	.00000411	1.18204361	
37.45	-51.9	-87.1	.00270	565.6	.00000371	1.18204732	
36.20	-52.1	-87.4	.00265	570.7	.00000340	1.18205072	
35.05	-52.1	-87.6	.00264	575.9	.00000310	1.18205382	
34.00	-52.4	-87.8	.00263	580.1	.00000282	1.18205664	
33.05	-52.6	-88.1	.00256	584.3	.00000250	1.18205914	
32.10	-51.7	-88.3	.00254	591.5	.00000246	1.18206160	
31.30	-51.2	-88.5	.00251	597.2	.00000206	1.18206365	
30.40	-50.5	-88.8	.00244	604.0	.00000226	1.18206592	
29.25	-49.9	-89.1	.00244	612.5	.00000286	1.18206878	

WASHINGTON,D.C.		5/18/67	1920Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
28.30	-49.4	-89.4	.00238	619.6	.00000232	1.18207110	
26.90	-48.9	-89.7	.00236	630.0	.00000337	1.18207447	
25.80	-48.8	-90.0	.00231	638.0	.00000261	1.18207708	
24.70	-48.6	-90.4	.00227	646.5	.00000256	1.18207964	
23.50	-48.4	-90.6	.00229	656.2	.00000279	1.18208243	
22.50	-48.3	-91.0	.00224	664.9	.00000231	1.18208474	
21.50	-48.1	-91.2	.00225	674.1	.00000228	1.18208702	
20.50	-48.0	-91.7	.00216	683.8	.00000224	1.18208925	
19.70	-47.6	-91.9	.00215	692.6	.00000174	1.18209100	
19.00	-47.2	-92.3	.00208	701.2	.00000151	1.18209250	
18.30	-46.7	-92.7	.00201	710.2	.00000145	1.18209395	
17.65	-46.3	-93.0	.00194	719.1	.00000130	1.18209524	
16.80	-46.0	-93.3	.00194	730.3	.00000167	1.18209691	
16.30	-45.4	-93.7	.00185	738.5	.00000095	1.18209787	
15.60	-45.0	-93.8	.00189	748.9	.00000133	1.18209919	
15.00	-44.6	-93.8	.00196	758.8	.00000118	1.18210037	
14.40	-44.3	-94.0	.00199	768.7	.00000121	1.18210158	

WASHINGTON, D.C.	7/5/67	1550Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.10	18.6	13.1	9.34233	290.2		
1003.00	17.7	11.8	8.69901	290.6	.13899142	.13899142
992.00	17.0	10.5	8.07292	290.9	.09412779	.23311920
982.00	16.4	10.5	8.15620	291.0	.08280128	.31592049
973.00	15.7	9.3	7.57935	291.1	.07225481	.38817529
963.00	14.7	9.3	7.65903	291.0	.07774653	.46592182
952.00	13.9	9.3	7.74863	291.1	.08647119	.55239300
940.00	13.1	8.2	7.27306	291.4	.09196915	.64436215
927.00	11.7	7.1	6.83616	291.1	.09358118	.73794334
911.00	10.6	6.1	6.48525	291.4	.10874578	.84668912
893.00	9.7	5.1	6.16418	292.1	.11616780	.96285692
876.50	8.8	4.1	5.86641	292.8	.10127749	1.06413440
860.00	7.9	2.3	5.26293	293.4	.09369048	1.15782489
845.00	6.7	2.3	5.35716	293.7	.08127591	1.23910080
830.00	5.5	1.5	5.14040	293.9	.08033814	1.31943893
813.50	4.4	-0.1	4.65144	294.4	.08243096	1.40186989
796.50	3.3	-0.9	4.46475	295.0	.07906871	1.48093860
782.00	2.8	-1.6	4.27144	296.1	.06462972	1.54556832
770.00	2.7	-3.7	3.63789	297.2	.04842426	1.59399258
757.00	2.6	-5.0	3.31534	298.5	.04611814	1.64011072
743.00	2.6	-10.0	2.17753	300.1	.03923462	1.67934534
731.00	2.1	-12.0	1.86123	301.1	.02472703	1.70407237
718.00	1.9	-12.4	1.82057	302.3	.02441998	1.72849235
705.00	1.3	-16.5	1.27089	303.3	.02050449	1.74899684
689.00	2.1	-18.0	1.13386	306.2	.01963057	1.76862741
680.50	1.9	-19.3	1.00921	307.0	.00929390	1.77792130
672.00	1.4	-20.0	.96055	307.6	.00854228	1.78646359
664.50	.8	-20.6	.91438	307.8	.00717442	1.79363801
658.00	.2	-21.2	.86923	308.1	.00591500	1.79955301
649.00	-0.5	-23.5	.70416	308.5	.00722472	1.80677773
640.00	-0.9	-28.8	.41682	309.3	.00514737	1.81192510
630.00	-1.3	-33.0	.27461	310.2	.00352772	1.81545281
621.00	-2.1	-35.5	.21140	310.6	.00223169	1.81768450
613.50	-2.5	-34.7	.23397	311.2	.00170423	1.81938873
606.00	-3.3	-34.5	.24112	311.4	.00181794	1.82120667
597.00	-3.8	-30.1	.39240	312.1	.00290897	1.82411565
590.00	-4.6	-29.0	.44245	312.3	.00298159	1.82709724
583.00	-5.2	-29.3	.43787	312.6	.00314400	1.83024123
577.00	-6.3	-29.5	.43310	312.3	.00266623	1.83290747
569.00	-7.6	-29.5	.43920	312.0	.00356039	1.83646786
561.00	-8.3	-31.3	.36840	312.4	.00329630	1.83976416
555.00	-9.0	-33.0	.31174	312.6	.00208205	1.84184621
548.00	-10.0	-34.4	.27165	312.5	.00208353	1.84392974
540.50	-10.6	-35.5	.24290	313.0	.00196892	1.84589866
533.00	-11.5	-36.2	.22963	313.2	.00180814	1.84770679
527.00	-12.4	-36.5	.22443	313.2	.00138997	1.84909676
520.00	-13.0	-39.3	.16690	313.6	.00139759	1.85049435
513.70	-13.9	-43.1	.10875	313.7	.00088601	1.85138036
507.00	-14.7	-45.0	.08874	313.8	.00067511	1.85205548
501.00	-15.4	-45.3	.08634	314.1	.00053596	1.85259144
495.00	-16.2	-44.6	.09459	314.1	.00055386	1.85314530
489.00	-17.2	-45.2	.08964	314.0	.00056396	1.85370927
483.00	-17.7	-43.9	.10509	314.5	.00059611	1.85430537
476.50	-18.7	-40.9	.15178	314.5	.00085187	1.85515724
470.00	-19.3	-40.5	.16085	314.9	.00103676	1.85619400
464.00	-20.1	-46.7	.07897	315.1	.00073411	1.85692811

WASHINGTON,D.C.		7/5/67	1550Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
457.50	-21.0	-48.2	.06657	315.3	.00048263	1.85741074	
450.00	-21.7	-45.6	.09249	315.9	.00060865	1.85801940	
443.00	-22.6	-44.2	.11148	316.2	.00072846	1.85874785	
436.40	-23.6	-45.2	.10045	316.3	.00071362	1.85946147	
430.00	-24.2	-45.5	.09803	316.8	.00064807	1.86010954	
423.00	-25.1	-47.5	.07841	317.1	.00063013	1.86073966	
416.00	-26.0	-49.6	.06197	317.5	.00050136	1.86124103	
409.50	-26.7	-50.5	.05607	318.1	.00039147	1.86163250	
403.00	-26.7	-51.7	.04919	319.6	.00034907	1.86198157	
396.00	-26.5	-52.5	.04532	321.3	.00033750	1.86231907	
390.00	-26.8	-52.5	.04601	322.4	.00027956	1.86259863	
383.50	-27.6	-52.2	.04837	322.9	.00031298	1.86291161	
378.00	-28.2	-51.1	.05675	323.4	.00029497	1.86320658	
372.00	-29.0	-49.8	.06771	323.9	.00038099	1.86358757	
367.00	-29.5	-51.5	.05525	324.4	.00031367	1.86390124	
360.50	-30.1	-50.4	.06444	325.4	.00039694	1.86429818	
355.00	-30.6	-52.1	.05282	326.1	.00032903	1.86462721	
349.70	-31.5	-52.7	.04965	326.3	.00027707	1.86490428	
344.00	-32.6	-53.3	.04730	326.3	.00028194	1.86518623	
339.00	-33.4	-52.4	.05353	326.6	.00025721	1.86544344	
333.00	-34.2	-50.2	.07138	327.1	.00038236	1.86582580	
329.00	-34.8	-51.5	.06163	327.5	.00027145	1.86609726	
324.00	-35.5	-49.9	.07683	328.0	.00035322	1.86645047	
318.00	-36.2	-50.1	.07563	328.8	.00046670	1.86691718	
313.00	-37.1	-49.0	.08842	328.9	.00041848	1.86733566	
307.50	-38.2	-50.0	.08004	329.2	.00047269	1.86780836	
302.00	-39.0	-49.9	.08243	329.6	.00045589	1.86826424	
297.00	-40.1	-51.2	.07141	329.8	.00039242	1.86865667	
292.00	-41.1	-51.2	.07180	329.9	.00036532	1.86902198	
287.00	-42.2	-50.0	.08575	330.0	.00040193	1.86942391	
282.00	-43.3	-53.9	.05294	330.1	.00035380	1.86977771	
276.00	-44.4	-54.7	.04915	330.5	.00031249	1.87009020	
270.00	-45.2	-54.9	.04869	331.4	.00029950	1.87038970	
265.30	-46.5	-55.0	.04903	331.2	.00023432	1.87062402	
261.00	-47.7	-55.6	.04633	331.0	.00020920	1.87083322	
255.40	-48.2	-57.1	.03894	332.3	.00024360	1.87107682	
250.00	-49.2	-58.8	.03157	332.8	.00019425	1.87127107	
246.00	-49.9	-59.7	.02848	333.2	.00012255	1.87139362	
241.50	-51.0	-60.2	.02708	333.4	.00012757	1.87152119	
237.20	-51.4	-60.2	.02757	334.5	.00011989	1.87164108	
233.00	-51.6	-60.8	.02571	335.9	.00011416	1.87175524	
228.80	-52.3	-61.4	.02421	336.5	.00010696	1.87186220	
224.00	-53.3	-61.7	.02379	337.1	.00011756	1.87197976	
220.50	-53.5	-61.8	.02393	338.3	.00008522	1.87206498	
217.00	-53.5	-62.9	.02083	339.9	.00007993	1.87214491	
213.00	-53.9	-64.1	.01785	341.1	.00007892	1.87222382	
209.00	-54.3	-64.9	.01638	342.3	.00006984	1.87229367	
205.20	-54.3	-66.6	.01302	344.1	.00005698	1.87235065	
202.00	-53.9	-68.1	.01071	346.3	.00003874	1.87238939	
197.80	-54.1	-68.2	.01073	348.1	.00004594	1.87243533	
194.00	-54.7	-69.2	.00937	349.0	.00003897	1.87247430	
190.50	-55.3	-70.4	.00808	349.9	.00003116	1.87250546	
187.00	-55.9	-70.8	.00769	350.7	.00002816	1.87253362	
183.30	-56.5	-71.0	.00761	351.7	.00002888	1.87256250	
180.00	-57.2	-71.4	.00731	352.5	.00002511	1.87258761	

WASHINGTON, D.C.		7/5/67	1550Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
175.70	-56.3	-73.3	.00558	356.4	.00002827	1.87261587	
172.00	-54.3	-75.2	.00430	361.9	.00001864	1.87263452	
168.00	-53.5	-76.1	.00383	365.7	.00001657	1.87265109	
164.00	-53.7	-76.3	.00375	367.9	.00001547	1.87266655	
160.20	-53.9	-76.8	.00356	370.0	.00001417	1.87268072	
156.50	-55.1	-77.2	.00344	370.4	.00001322	1.87269394	
153.00	-55.7	-77.2	.00352	371.8	.00001243	1.87270637	
149.70	-56.8	-77.3	.00352	372.3	.00001185	1.87271821	
146.50	-57.2	-77.7	.00336	373.9	.00001122	1.87272944	
143.00	-57.4	-78.1	.00325	376.1	.00001180	1.87274124	
140.00	-57.6	-78.4	.00314	378.0	.00000978	1.87275101	
137.00	-57.8	-78.7	.00306	380.0	.00000948	1.87276049	
133.80	-58.5	-79.1	.00295	381.4	.00000980	1.87277029	
130.00	-59.2	-79.3	.00293	383.3	.00001140	1.87278169	
127.30	-59.6	-79.5	.00292	384.8	.00000806	1.87278976	
124.00	-60.1	-79.5	.00297	386.8	.00000991	1.87279966	
121.10	-60.3	-79.7	.00293	389.0	.00000872	1.87280838	
118.50	-60.1	-79.8	.00296	391.9	.00000781	1.87281619	
115.70	-59.6	-80.0	.00292	395.4	.00000839	1.87282458	
113.00	-57.6	-81.0	.00255	401.9	.00000753	1.87283210	
110.20	-56.1	-81.4	.00245	407.6	.00000714	1.87283924	
107.50	-56.5	-81.8	.00236	409.7	.00000662	1.87284586	
105.00	-57.2	-82.3	.00220	411.2	.00000581	1.87285167	
102.00	-57.8	-82.6	.00215	413.4	.00000665	1.87285832	
99.60	-58.3	-82.6	.00223	415.3	.00000535	1.87286367	
97.50	-58.3	-82.3	.00237	417.9	.00000492	1.87286858	
95.20	-58.3	-82.5	.00236	420.7	.00000554	1.87287413	
92.90	-58.1	-82.9	.00227	424.1	.00000542	1.87287955	
90.40	-58.1	-83.0	.00230	427.4	.00000581	1.87288536	
88.00	-57.8	-83.0	.00233	431.2	.00000566	1.87289102	
85.90	-57.4	-83.2	.00232	435.1	.00000498	1.87289600	
83.80	-56.5	-83.5	.00225	439.9	.00000489	1.87290089	
81.50	-56.1	-83.9	.00216	444.2	.00000517	1.87290606	
79.10	-56.1	-84.2	.00213	448.1	.00000525	1.87291130	
77.10	-55.9	-84.4	.00210	451.8	.00000431	1.87291561	
75.00	-55.3	-84.0	.00231	456.7	.00000472	1.87292033	
72.90	-54.7	-84.0	.00238	461.7	.00000502	1.87292536	
70.90	-54.5	-84.5	.00225	465.8	.00000471	1.87293006	
69.00	-54.7	-84.3	.00241	469.0	.00000450	1.87293456	
67.00	-54.3	-84.3	.00248	473.8	.00000498	1.87293954	
65.10	-54.1	-84.8	.00231	478.1	.00000463	1.87294418	
63.30	-53.9	-85.4	.00214	482.4	.00000408	1.87294826	
61.50	-53.7	-85.3	.00227	486.9	.00000404	1.87295230	
59.60	-53.9	-84.8	.00252	490.8	.00000463	1.87295693	
57.80	-54.3	-85.0	.00252	494.2	.00000463	1.87296157	
56.10	-54.3	-85.5	.00238	498.5	.00000425	1.87296581	
54.60	-54.1	-85.5	.00244	502.8	.00000368	1.87296949	
53.00	-53.9	-85.5	.00252	507.5	.00000404	1.87297353	
51.50	-53.9	-85.4	.00263	511.7	.00000393	1.87297747	
50.00	-53.3	-85.7	.00259	517.4	.00000399	1.87298146	
48.60	-52.7	-85.7	.00266	523.0	.00000374	1.87298520	
47.20	-52.2	-85.9	.00266	528.8	.00000380	1.87298900	
45.70	-51.6	-86.1	.00266	535.0	.00000407	1.87299307	
44.30	-51.4	-86.2	.00266	540.3	.00000380	1.87299687	
42.90	-51.2	-86.8	.00250	545.7	.00000368	1.87300055	

WASHINGTON, D.C.		7/5/67	1550Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
41.50	-50.8	-86.2	.00284	551.8	.00000381	1.87300436	
39.70	-50.5	-86.5	.00284	559.8	.00000522	1.87300958	
38.30	-50.3	-87.0	.00267	566.0	.00000393	1.87301351	
36.90	-49.9	-87.1	.00273	573.0	.00000384	1.87301736	
35.50	-50.1	-87.2	.00279	578.9	.00000393	1.87302129	
34.00	-50.5	-87.3	.00287	585.1	.00000432	1.87302561	
32.50	-50.8	-87.4	.00295	591.8	.00000444	1.87303005	
31.25	-51.0	-87.6	.00297	597.9	.00000377	1.87303382	
30.00	-50.5	-88.1	.00284	606.4	.00000370	1.87303752	
28.70	-49.9	-88.1	.00297	615.7	.00000384	1.87304136	
27.50	-49.2	-88.2	.00305	625.2	.00000368	1.87304504	
26.30	-47.8	-88.3	.00313	637.2	.00000377	1.87304881	
25.10	-46.7	-88.5	.00317	649.1	.00000384	1.87305266	
24.25	-45.3	-88.9	.00301	659.3	.00000267	1.87305532	
23.20	-44.4	-89.3	.00292	670.6	.00000317	1.87305850	
22.40	-43.3	-89.8	.00276	680.6	.00000231	1.87306081	
21.50	-42.2	-89.9	.00282	691.9	.00000256	1.87306337	
20.65	-41.6	-89.3	.00328	701.8	.00000264	1.87306601	
19.80	-41.4	-89.6	.00324	710.7	.00000282	1.87306882	
19.10	-41.6	-89.4	.00349	717.6	.00000240	1.87307122	
17.90	-40.9	-90.5	.00308	732.9	.00000401	1.87307523	
17.30	-40.5	-90.4	.00325	741.5	.00000194	1.87307717	
16.70	-40.7	-90.4	.00337	748.6	.00000203	1.87307920	
16.10	-40.7	-90.5	.00343	756.4	.00000207	1.87308127	
15.60	-40.1	-90.7	.00340	765.2	.00000173	1.87308300	
15.10	-39.5	-90.5	.00366	774.4	.00000179	1.87308478	
14.60	-38.6	-92.4	.00262	784.8	.00000159	1.87308638	
13.70	-36.9	-91.2	.00351	805.0	.00000280	1.87308918	
12.90	-35.9	-91.2	.00373	822.4	.00000295	1.87309213	
12.40	-35.9	-91.2	.00388	831.8	.00000194	1.87309407	
12.07	-35.9	-91.4	.00383	838.2	.00000130	1.87309536	
11.70	-35.7	-91.4	.00395	846.2	.00000146	1.87309682	
11.35	-35.7	-91.4	.00407	853.6	.00000143	1.87309825	
11.00	-35.6	-91.4	.00420	861.7	.00000148	1.87309973	
10.70	-34.9	-91.7	.00414	871.1	.00000127	1.87310100	
10.40	-34.6	-91.5	.00435	879.2	.00000130	1.87310229	
10.15	-34.2	-91.4	.00455	886.9	.00000113	1.87310342	
9.90	-33.5	-91.3	.00476	895.8	.00000118	1.87310460	

WASHINGTON, D.C.		8/15/67	1617Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1017.00	24.7	11.8	8.57257	296.4	.07026117	.07026117	
1009.00	23.7	11.8	8.64149	296.1	.07972239	.14998356	
1000.00	22.6	11.8	8.72035	295.7	.13450496	.28448851	
985.00	21.7	11.8	8.85504	296.1	.13074167	.41523018	
970.00	20.9	10.5	8.22861	296.7	.11373870	.52896889	
956.00	19.9	9.3	7.69487	296.8	.11075340	.63972229	
942.00	19.0	9.3	7.81067	297.2	.10434467	.74406695	
929.00	17.8	9.3	7.92136	297.1	.09048428	.83455123	
917.00	16.6	7.0	6.85780	297.0	.09186324	.92641447	
903.00	15.6	4.9	6.00311	297.3	.07757790	1.00399238	
890.00	14.7	3.9	5.69330	297.6	.06785883	1.07185121	
878.00	13.8	2.9	5.39035	297.8	.06646538	1.13831659	
866.00	12.6	2.9	5.46570	297.8	.06805021	1.20636679	
853.50	11.7	2.1	5.20461	298.0	.06909578	1.27546257	
841.00	11.1	2.9	5.62965	298.6	.07191399	1.34737656	
829.00	10.1	3.9	6.11635	298.9	.06501120	1.41238776	
817.00	9.4	-0.5	4.50219	299.3	.05037285	1.46276061	
803.00	9.5	-7.3	2.55004	301.0	.03034605	1.49310666	
790.00	10.1	-10.1	2.02523	303.0	.02289316	1.51599982	
779.00	10.1	-10.1	2.05393	304.2	.01976822	1.53576805	
768.00	9.8	-14.0	1.46843	305.2	.01610066	1.55186871	
758.00	9.4	-12.6	1.68732	305.8	.01518145	1.56705016	
748.00	9.1	-15.7	1.28826	306.6	.01274242	1.57979257	
738.00	8.5	-16.5	1.20926	307.2	.01738557	1.59717815	
728.00	7.7	-10.1	2.19832	307.5	.02079883	1.61797698	
719.00	7.0	-9.6	2.33122	307.8	.02154526	1.63952224	
710.00	6.2	-9.6	2.36088	308.1	.02371143	1.66323367	
700.00	5.6	-10.1	2.28658	308.7	.02246252	1.68569618	
690.00	4.9	-11.2	2.11609	309.2	.01998816	1.70568435	
680.00	4.2	-13.1	1.80160	309.7	.01743755	1.72312190	
670.00	3.6	-14.5	1.61617	310.4	.01580542	1.73892732	
660.30	2.8	-14.9	1.57751	310.7	.01451069	1.75343801	
651.00	2.2	-15.7	1.48067	311.3	.01292762	1.76636563	
642.50	1.5	-15.7	1.50030	311.7	.01386660	1.78023224	
633.00	1.1	-16.9	1.36061	312.6	.00951575	1.78976864	
625.80	.7	-18.1	1.23543	313.1	.00819269	1.79796132	
619.00	.2	-19.2	1.12601	313.5	.00863665	1.80747707	
610.50	-.4	-19.8	1.06822	314.1	.00759640	1.81611373	
602.00	-1.3	-21.5	.92330	314.2	.00482710	1.82371013	
592.50	-2.0	-25.3	.64397	314.9	.00356500	1.82853723	
584.00	-2.7	-28.6	.46911	315.4	.00338572	1.83210222	
576.60	-3.5	-28.6	.47514	315.6	.00430420	1.83548795	
570.00	-4.2	-27.6	.53033	315.8	.00476912	1.83979215	
562.50	-4.9	-26.6	.59451	316.2	.00475051	1.84456126	
555.00	-5.7	-25.8	.65183	316.5	.00403003	1.84931177	
548.00	-6.4	-25.6	.67832	316.7	.00403003	1.85334180	
541.00	-6.7	-29.7	.45009	317.6	.00260240	1.85594420	
535.30	-7.3	-29.9	.44477	317.8	.00181414	1.86021091	
529.00	-8.1	-33.2	.31826	317.9	.00154330	1.86175421	
523.00	-8.7	-34.7	.27437	318.2	.00159450	1.86334871	
517.00	-9.6	-36.4	.22978	318.2	.00140844	1.86475715	
510.00	-10.5	-37.1	.21668	318.4	.00119181	1.86630848	
503.50	-11.1	-37.6	.20802	318.8	.00155133	1.86750029	
495.50	-12.0	-39.4	.17206	319.2	.00105317	1.86855346	
488.00	-12.5	-41.4	.13940	320.0			
481.00	-13.2	-40.6	.15549	320.4			

WASHINGTON,D.C.		8/15/67	1617Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
474.00	-13.7	-41.0	.15038	321.1	.00109239	1.86964585	
467.00	-14.6	-42.6	.12680	321.4	.00098991	1.87063576	
460.00	-15.4	-43.3	.11946	321.8	.00087948	1.87151524	
453.00	-16.1	-41.8	.14330	322.3	.00093843	1.87245367	
447.00	-17.0	-42.5	.13452	322.5	.00085047	1.87330414	
440.00	-17.8	-42.2	.14088	322.8	.00098357	1.87428771	
434.00	-18.5	-43.1	.12853	323.3	.00082472	1.87511243	
427.00	-19.5	-43.0	.13256	323.5	.00093247	1.87604490	
420.00	-20.3	-43.1	.13282	323.9	.00094777	1.87699267	
414.00	-20.9	-43.1	.13474	324.5	.00081906	1.87781173	
408.00	-21.6	-41.9	.15664	325.0	.00089200	1.87870373	
402.50	-22.3	-38.8	.22653	325.3	.00107522	1.87977895	
397.00	-23.2	-40.6	.18840	325.5	.00116432	1.88094327	
390.00	-24.1	-41.7	.16900	326.0	.00127640	1.88221967	
384.00	-24.8	-42.2	.16143	326.4	.00101151	1.88323118	
378.50	-25.7	-43.0	.14955	326.6	.00087264	1.88410382	
373.00	-26.6	-43.4	.14521	326.8	.00082713	1.88493095	
367.00	-27.5	-44.1	.13518	327.1	.00085834	1.88578929	
362.00	-28.3	-44.9	.12577	327.4	.00066568	1.88645497	
356.50	-29.2	-45.8	.11427	327.6	.00067358	1.88712855	
351.00	-30.0	-46.8	.10268	328.0	.00060879	1.88773733	
345.50	-30.7	-46.8	.10432	328.4	.00058085	1.88831818	
340.00	-31.7	-47.6	.09663	328.7	.00056386	1.88888204	
334.50	-32.3	-48.4	.08852	329.3	.00051954	1.88940158	
329.00	-33.3	-49.3	.08131	329.6	.00047655	1.88987814	
323.50	-33.8	-50.5	.07128	330.4	.00042817	1.89030631	
318.00	-35.0	-51.4	.06427	330.3	.00038037	1.89068668	
312.50	-36.1	-52.1	.06020	330.4	.00034928	1.89103596	
307.00	-37.3	-52.3	.05987	330.6	.00033693	1.89137289	
302.00	-38.0	-52.8	.05742	331.1	.00029919	1.89167207	
297.00	-39.1	-53.8	.05088	331.1	.00027627	1.89194834	
291.60	-40.0	-54.5	.04736	331.6	.00027065	1.89221899	
286.00	-41.0	-55.0	.04567	331.9	.00026578	1.89248477	
281.00	-42.1	-55.2	.04496	332.1	.00023119	1.89271596	
276.00	-43.2	-56.2	.04057	332.2	.00021818	1.89293414	
271.00	-44.1	-56.4	.04001	332.6	.00020556	1.89313971	
266.00	-45.2	-56.8	.03863	332.8	.00020060	1.89334030	
261.00	-46.2	-57.2	.03731	333.1	.00019372	1.89353402	
256.00	-47.0	-57.8	.03530	333.8	.00018524	1.89371926	
251.00	-48.2	-57.9	.03525	333.9	.00017999	1.89389925	
246.00	-49.1	-58.3	.03449	334.5	.00017792	1.89407717	
241.40	-50.3	-58.8	.03267	334.5	.00015762	1.89423479	
237.00	-51.2	-59.1	.03191	334.9	.00014497	1.89437976	
232.20	-52.3	-59.5	.03093	335.2	.00015388	1.89453365	
228.00	-53.5	-60.0	.02931	335.2	.00012906	1.89466271	
223.30	-54.2	-60.3	.02873	336.0	.00013915	1.89480186	
219.00	-55.2	-60.6	.02811	336.3	.00012468	1.89492653	
215.00	-56.0	-61.1	.02694	336.8	.00011234	1.89503887	
211.00	-56.7	-61.3	.02663	337.7	.00010931	1.89514819	
207.00	-57.1	-61.5	.02633	338.9	.00010806	1.89525625	
203.00	-57.5	-63.1	.02152	340.1	.00009765	1.89535390	
198.30	-56.7	-64.1	.01916	343.7	.00009756	1.89545146	
194.00	-55.6	-63.8	.02039	347.5	.00008675	1.89553821	
190.50	-54.6	-68.0	.01153	351.0	.00005698	1.89559519	
187.00	-54.2	-70.8	.00777	353.5	.00003445	1.89562964	

WASHINGTON, D.C.		8/15/67	1617Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
183.00	-54.0	-72.4	.00618	356.0	.00002848	1.89565812	
179.00	-54.0	-72.7	.00601	358.2	.00002488	1.89568301	
176.00	-54.6	-73.8	.00519	359.0	.00001714	1.89570014	
173.00	-55.0	-76.0	.00378	360.1	.00001371	1.89571385	
169.50	-55.4	-75.2	.00433	361.5	.00001447	1.89572832	
166.00	-55.6	-75.2	.00442	363.4	.00001562	1.89574394	
162.50	-56.3	-75.3	.00447	364.5	.00001587	1.89575981	
159.00	-56.7	-75.0	.00476	366.1	.00001648	1.89577629	
155.40	-57.5	-74.7	.00508	367.1	.00001808	1.89579436	
152.00	-58.2	-74.2	.00565	368.3	.00001861	1.89581297	
148.50	-58.4	-73.6	.00634	370.4	.00002141	1.89583439	
144.00	-58.6	-73.1	.00703	373.2	.00003070	1.89586508	
141.00	-58.8	-77.7	.00353	375.1	.00001615	1.89588124	
137.00	-59.3	-77.6	.00367	377.4	.00001468	1.89589591	
134.00	-60.0	-77.7	.00371	378.6	.00001130	1.89590721	
131.00	-60.9	-77.8	.00371	379.4	.00001135	1.89591856	
127.40	-61.1	-77.7	.00386	382.0	.00001390	1.89593247	
124.00	-62.1	-78.1	.00375	383.2	.00001320	1.89594567	
121.00	-62.1	-79.1	.00328	385.9	.00001076	1.89595643	
118.00	-62.1	-79.0	.00340	388.6	.00001022	1.89596665	
115.50	-62.1	-78.7	.00364	391.0	.00000897	1.89597562	
113.00	-62.1	-79.0	.00355	393.5	.00000916	1.89598478	
110.70	-62.1	-78.8	.00371	395.8	.00000851	1.89599329	
108.00	-61.9	-78.9	.00376	399.1	.00001028	1.89600357	
105.30	-61.4	-79.1	.00373	402.9	.00001030	1.89601387	
102.50	-61.1	-80.3	.00314	406.5	.00000979	1.89602366	
98.80	-60.7	-80.5	.00318	411.7	.00001191	1.89603557	
96.00	-60.2	-80.4	.00331	416.0	.00000925	1.89604482	
93.60	-60.0	-80.9	.00316	419.5	.00000791	1.89605273	
91.20	-59.7	-81.4	.00298	423.0	.00000750	1.89606023	
89.00	-59.7	-81.5	.00297	426.0	.00000668	1.89606690	
86.80	-59.7	-81.7	.00297	429.1	.00000668	1.89607358	
84.40	-59.5	-81.9	.00295	433.0	.00000724	1.89608082	
82.00	-59.3	-82.0	.00296	437.0	.00000723	1.89608805	
79.60	-59.3	-82.3	.00290	440.7	.00000717	1.89609522	
77.80	-59.1	-82.6	.00285	444.1	.00000528	1.89610049	
75.60	-58.8	-83.0	.00272	448.2	.00000624	1.89610673	
73.50	-58.6	-83.3	.00269	452.3	.00000578	1.89611252	
71.40	-58.2	-83.5	.00266	457.0	.00000572	1.89611824	
69.20	-58.0	-83.8	.00260	461.6	.00000590	1.89612414	
67.20	-58.0	-83.9	.00264	465.5	.00000535	1.89612949	
65.30	-57.7	-84.0	.00265	469.8	.00000513	1.89613461	
63.40	-57.1	-84.1	.00269	475.2	.00000517	1.89613979	
60.60	-56.7	-84.2	.00278	482.3	.00000781	1.89614759	
59.60	-56.5	-84.5	.00267	485.0	.00000277	1.89615037	
58.00	-56.3	-84.6	.00271	489.3	.00000438	1.89615475	
56.20	-55.8	-84.7	.00272	494.7	.00000498	1.89615972	
54.10	-55.8	-84.9	.00275	500.1	.00000586	1.89616558	
51.10	-56.3	-85.4	.00267	507.3	.00000829	1.89617386	
49.70	-56.3	-85.6	.00263	511.4	.00000378	1.89617765	
48.20	-55.8	-85.8	.00264	516.8	.00000402	1.89618167	
46.60	-54.8	-86.0	.00265	524.3	.00000431	1.89618598	
45.00	-54.0	-86.3	.00259	531.5	.00000426	1.89619024	
43.30	-53.6	-86.4	.00265	538.3	.00000453	1.89619477	

WASHINGTON, D.C.		8/15/67	1617Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
41.70	-52.9	-86.5	.00271	546.0	.01782966	1.89625487	
40.20	-52.5	-86.7	.00273	552.7	.00000416	1.89625902	
38.60	-51.8	-86.9	.00272	561.1	.00000444	1.89626347	
37.10	-51.6	-87.4	.00258	567.9	.00000404	1.89626750	
35.60	-51.4	-87.5	.00264	575.1	.00000399	1.89627150	
34.20	-51.4	-87.8	.00263	581.8	.00000376	1.89627525	
32.80	-51.2	-88.0	.00265	589.3	.00000377	1.89627902	
31.40	-51.2	-88.2	.00264	596.6	.00000377	1.89628279	
30.00	-49.9	-88.5	.00263	607.9	.00000376	1.89628655	
28.70	-48.9	-88.8	.00262	618.5	.00000347	1.89629002	
27.30	-48.2	-89.1	.00258	629.4	.00000371	1.89629373	
26.10	-47.9	-89.9	.00235	638.5	.00000301	1.89629674	
25.00	-47.0	-89.7	.00254	648.8	.00000274	1.89629948	
23.90	-46.2	-89.7	.00266	659.6	.00000291	1.89630239	
22.80	-45.5	-90.0	.00264	670.4	.00000297	1.89630535	
21.85	-45.1	-90.6	.00248	680.1	.00000247	1.89630783	
21.00	-44.0	-91.0	.00240	691.2	.00000210	1.89630993	
20.15	-43.0	-91.6	.00223	702.2	.00000200	1.89631192	
19.50	-43.0	-91.9	.00218	708.9	.00000146	1.89631338	
18.75	-43.2	-91.9	.00227	716.4	.00000170	1.89631508	
18.00	-42.9	-91.8	.00241	725.7	.00000177	1.89631686	
17.30	-41.9	-92.2	.00232	736.9	.00000168	1.89631854	
16.70	-41.8	-92.6	.00222	744.9	.00000139	1.89631993	
16.10	-41.6	-92.7	.00225	753.2	.00000136	1.89632128	
15.50	-41.5	-92.9	.00225	761.9	.00000137	1.89632265	
15.00	-41.5	-93.3	.00218	769.1	.00000112	1.89632377	
14.40	-40.9	-94.1	.00196	780.1	.00000125	1.89632502	
13.85	-40.4	-94.5	.00186	790.4	.00000106	1.89632608	
13.40	-40.0	-93.8	.00219	799.4	.00000092	1.89632700	
12.95	-39.4	-94.2	.00213	809.2	.00000098	1.89632799	
12.60	-39.0	-94.2	.00219	817.1	.00000076	1.89632875	
12.20	-38.5	-94.4	.00216	826.2	.00000088	1.89632963	
11.90	-38.0	-95.0	.00198	834.1	.00000063	1.89633025	
11.60	-37.4	-94.6	.00217	842.3	.00000063	1.89633088	
11.25	-37.3	-95.0	.00209	850.2	.00000076	1.89633164	
11.00	-37.3	-95.2	.00204	855.7	.00000052	1.89633216	
10.70	-36.4	-95.1	.00215	865.6	.00000064	1.89633280	
10.45	-35.7	-95.6	.00200	874.0	.00000052	1.89633332	
10.20	-34.8	-95.9	.00195	883.6	.00000049	1.89633381	
9.95	-33.9	-96.1	.00191	893.0	.00000049	1.89633431	

WASHINGTON,,D.C.		9/7/67	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1017.00	24.5	13.1	9.35581	296.2			
1003.00	23.5	11.7	8.66379	296.4	.12871094	.12871094	
988.00	22.6	10.5	8.08746	296.8	.12819782	.25690876	
972.00	21.7	10.5	8.22235	297.3	.13314073	.39004949	
960.00	20.6	10.5	8.32650	297.2	.10131906	.49136855	
948.00	19.8	10.5	8.43333	297.4	.10261078	.59397933	
935.00	18.7	9.3	7.86988	297.5	.10813312	.70211245	
921.00	17.4	7.0	6.84771	297.4	.10512522	.80723767	
908.00	16.5	5.0	6.01857	297.8	.08533722	.89257489	
895.40	15.5	5.0	6.10410	297.9	.07793115	.97050604	
882.00	14.6	4.0	5.78167	298.2	.08125953	1.05176558	
870.00	13.9	1.3	4.83445	298.7	.06499644	1.11676201	
856.00	13.0	.5	4.63263	299.1	.06762175	1.18438376	
842.00	12.2	-.3	4.42314	299.7	.06468379	1.24906756	
829.00	11.2	-1.1	4.20859	300.0	.05725099	1.30631855	
816.00	10.6	-2.6	3.77841	300.8	.05297473	1.35929328	
804.50	9.7	-4.6	3.21532	301.0	.04103443	1.40032771	
791.00	9.1	-4.6	3.27048	301.8	.04467240	1.44500011	
780.00	8.1	-5.3	3.14197	301.9	.03598809	1.48098820	
769.00	6.7	-5.9	3.01698	301.7	.03456539	1.51555359	
758.00	6.2	-7.1	2.75692	302.3	.03240441	1.54795800	
747.00	5.3	-8.8	2.40776	302.6	.02898535	1.57694335	
736.00	5.0	-9.9	2.22375	303.6	.02599308	1.60293643	
725.00	4.3	-12.4	1.80841	304.1	.02262940	1.62556583	
715.00	3.7	-12.4	1.83378	304.7	.01858252	1.64414835	
704.00	3.3	-11.9	1.94524	305.6	.02120870	1.66535705	
693.00	2.5	-10.9	2.15710	306.1	.02302323	1.68838029	
683.00	2.0	-10.9	2.18879	306.9	.02217279	1.71055308	
673.00	1.6	-12.4	1.94858	307.7	.02110893	1.73166201	
663.00	1.5	-13.3	1.82013	308.9	.01922801	1.75089002	
654.00	1.6	-15.0	1.57177	310.2	.01557496	1.76646498	
644.00	1.1	-18.8	1.11459	311.0	.01370586	1.78017084	
636.00	.4	-15.8	1.49883	311.3	.01066700	1.79083784	
628.00	-.4	-15.0	1.63701	311.5	.01279931	1.80363715	
619.00	-.7	-17.4	1.33226	312.5	.01363432	1.81727147	
610.00	-1.0	-18.8	1.17684	313.5	.01152129	1.82879277	
600.00	-1.8	-20.9	.98615	314.0	.01103561	1.83982837	
592.00	-2.6	-22.1	.88423	314.3	.00763418	1.84746255	
585.00	-3.4	-19.9	1.11283	314.4	.00713234	1.85459489	
578.00	-4.4	-18.1	1.33089	314.3	.00872755	1.86332244	
570.50	-5.1	-21.8	.94586	314.7	.00871202	1.87203446	
563.00	-5.9	-20.5	1.08384	314.9	.00776665	1.87980111	
556.00	-6.4	-19.9	1.17098	315.5	.00805289	1.88785399	
549.00	-7.1	-20.2	1.14800	315.8	.00828207	1.89613606	
541.00	-7.6	-23.0	.88691	316.5	.00830574	1.90444180	
533.00	-8.2	-25.2	.72113	317.1	.00656340	1.91100520	
526.00	-8.7	-26.3	.65776	317.7	.00492460	1.91592979	
519.00	-9.1	-27.8	.57414	318.5	.00439964	1.92032944	
513.00	-9.8	-29.8	.47001	318.7	.00319637	1.92352581	
506.00	-10.1	-30.0	.46609	319.5	.00334321	1.92686902	
499.00	-10.4	-29.4	.50608	320.5	.00347205	1.93034106	
492.00	-11.0	-30.2	.46864	321.0	.00348113	1.93382220	
485.00	-11.9	-29.8	.49717	321.2	.00344928	1.93727148	
478.00	-12.9	-30.0	.49342	321.3	.00353777	1.94080925	
471.00	-13.7	-30.9	.45808	321.7	.00339819	1.94420744	
463.00	-14.7	-31.3	.44631	322.1	.00369136	1.94789881	

WASHINGTON, D.C.		9/7/67	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
457.00	-15.5	-31.9	.42413	322.3	.00266460	1.95056340	
450.00	-16.1	-31.5	.44969	322.9	.00312077	1.95368417	
443.50	-16.6	-33.8	.35644	323.7	.00267334	1.95635751	
437.00	-17.3	-35.1	.31603	324.1	.00223011	1.95858762	
430.50	-18.4	-35.6	.30319	324.2	.00205353	1.96064115	
424.00	-19.0	-37.1	.26153	324.8	.00187278	1.96251392	
418.00	-19.7	-37.7	.24739	325.1	.00155789	1.96407181	
412.00	-20.5	-38.8	.22263	325.5	.00143881	1.96551062	
406.00	-21.5	-40.4	.18882	325.6	.00125952	1.96677014	
400.00	-22.5	-40.1	.19786	325.6	.00118370	1.96795385	
394.50	-23.5	-40.5	.19121	325.6	.00109176	1.96904561	
389.00	-24.4	-40.9	.18493	325.8	.00105546	1.97010107	
383.00	-25.3	-42.6	.15410	326.0	.00103782	1.97113889	
377.00	-26.2	-42.9	.15190	326.3	.00093670	1.97207560	
371.00	-26.7	-44.1	.13352	327.1	.00087373	1.97294933	
365.00	-27.5	-46.1	.10727	327.6	.00073713	1.97368646	
359.00	-28.4	-46.4	.10619	327.9	.00065345	1.97433990	
353.00	-29.2	-46.5	.10654	328.5	.00065120	1.97499110	
348.00	-30.0	-44.3	.14040	328.7	.00062993	1.97562103	
343.00	-30.7	-44.7	.13459	329.2	.00070149	1.97632252	
337.00	-31.7	-45.6	.12435	329.4	.00079265	1.97711517	
331.00	-32.6	-45.7	.12493	330.0	.00076307	1.97787824	
326.00	-33.4	-46.5	.11536	330.3	.00061297	1.97849122	
321.00	-34.3	-47.0	.10965	330.4	.00057401	1.97906522	
315.50	-35.3	-47.6	.10451	330.7	.00060095	1.97966617	
310.00	-36.1	-48.1	.09973	331.2	.00057310	1.98023927	
305.00	-37.0	-48.6	.09513	331.6	.00049707	1.98073635	
299.00	-37.9	-49.8	.08359	332.2	.00054708	1.98128343	
293.00	-39.0	-50.4	.07932	332.5	.00049868	1.98178211	
288.00	-40.2	-51.2	.07332	332.5	.00038935	1.98217146	
283.00	-41.1	-51.2	.07461	332.8	.00037736	1.98254882	
278.00	-42.0	-51.4	.07418	333.2	.00037956	1.98292838	
273.00	-43.0	-52.8	.06343	333.6	.00035104	1.98327942	
268.00	-43.9	-54.1	.05452	334.0	.00030090	1.98358032	
263.00	-44.9	-54.6	.05197	334.4	.00027165	1.98385197	
258.00	-46.0	-55.4	.04799	334.5	.00025499	1.98410696	
254.00	-46.8	-56.8	.04057	334.8	.00018074	1.98428769	
249.00	-47.9	-58.6	.03251	335.2	.00018641	1.98447411	
245.00	-48.7	-58.9	.03169	335.4	.00013101	1.98460512	
240.00	-50.0	-59.9	.02830	335.6	.00015303	1.98475815	
235.50	-50.9	-60.1	.02798	336.0	.00012921	1.98488736	
231.00	-51.8	-60.3	.02794	336.4	.00012839	1.98501575	
227.00	-53.1	-60.7	.02703	336.1	.00011218	1.98512793	
222.00	-53.9	-61.0	.02654	337.0	.00013666	1.98526458	
218.00	-54.5	-60.6	.02843	337.9	.00011219	1.98537678	
214.00	-55.1	-61.0	.02725	338.7	.00011364	1.98549041	
209.00	-55.7	-63.1	.02109	340.0	.00012332	1.98561373	
205.00	-56.6	-63.6	.01986	340.6	.00008357	1.98569730	
201.00	-57.4	-64.8	.01729	341.2	.00007580	1.98577310	
197.00	-57.9	-65.7	.01537	342.4	.00006664	1.98583974	
192.50	-58.3	-66.8	.01341	344.0	.00006607	1.98590581	
188.00	-58.8	-67.3	.01282	345.6	.00006022	1.98596603	
184.00	-59.5	-67.6	.01259	346.6	.00005186	1.98601788	
180.00	-59.9	-67.9	.01225	348.1	.00005069	1.98606858	
176.00	-60.4	-68.3	.01192	349.5	.00004932	1.98611790	

WASHINGTON, D.C.		9/7/67	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
172.00	-60.9	-68.7	.01138	351.1	.00004755	1.98616545	
168.00	-61.3	-69.3	.01076	352.6	.00004518	1.98621063	
164.00	-62.1	-69.8	.01028	353.8	.00004293	1.98625356	
160.50	-62.6	-70.6	.00922	355.2	.00003482	1.98628838	
157.00	-63.1	-71.6	.00819	356.5	.00003108	1.98631947	
153.00	-63.3	-72.5	.00729	358.7	.00003156	1.98635103	
149.50	-64.1	-73.1	.00680	359.8	.00002514	1.98637617	
146.00	-64.4	-73.2	.00682	361.7	.00002430	1.98640047	
143.00	-64.4	-73.6	.00661	363.9	.00002055	1.98642102	
139.50	-64.7	-74.7	.00573	366.0	.00002204	1.98644306	
136.00	-64.7	-75.1	.00546	368.7	.00001998	1.98646304	
133.00	-64.7	-74.8	.00588	371.0	.00001736	1.98648040	
130.00	-64.7	-75.4	.00547	373.5	.00001737	1.98649777	
126.50	-64.9	-76.2	.00499	375.9	.00001869	1.98651646	
123.00	-64.9	-76.5	.00487	378.9	.00001760	1.98653406	
120.00	-64.9	-76.7	.00483	381.6	.00001483	1.98654889	
117.00	-65.2	-77.1	.00463	383.9	.00001447	1.98656335	
114.00	-65.8	-77.2	.00470	385.7	.00001428	1.98657763	
111.00	-65.2	-77.3	.00478	389.7	.00001450	1.98659213	
108.50	-65.2	-77.8	.00452	392.2	.00001185	1.98660398	
106.00	-64.9	-77.8	.00457	395.4	.00001159	1.98661557	
102.50	-63.9	-78.2	.00447	401.2	.00001615	1.98663172	
99.00	-63.9	-78.3	.00453	405.2	.00001606	1.98664778	
96.40	-63.6	-78.7	.00439	408.8	.00001182	1.98665960	
94.00	-63.3	-79.5	.00392	412.3	.00001016	1.98666976	
91.50	-62.8	-80.1	.00366	416.5	.00000966	1.98667942	
89.00	-62.3	-80.5	.00354	420.8	.00000918	1.98668860	
86.60	-62.1	-80.8	.00343	424.6	.00000854	1.98669714	
84.10	-62.1	-80.8	.00353	428.2	.00000887	1.98670600	
81.80	-62.3	-81.0	.00354	431.1	.00000830	1.98671430	
79.40	-61.1	-81.6	.00331	437.3	.00000837	1.98672268	
77.20	-60.1	-81.6	.00336	442.8	.00000747	1.98673014	
75.00	-59.0	-81.5	.00354	448.9	.00000773	1.98673788	
72.90	-58.1	-81.6	.00356	454.5	.00000760	1.98674548	
70.80	-57.9	-81.7	.00362	458.7	.00000767	1.98675315	
68.70	-57.7	-81.9	.00363	463.2	.00000776	1.98676091	
66.60	-57.7	-82.0	.00365	467.3	.00000781	1.98676872	
64.60	-57.4	-82.2	.00367	471.9	.00000747	1.98677619	
62.80	-57.0	-82.4	.00364	476.6	.00000671	1.98678289	
60.80	-56.2	-82.6	.00361	482.9	.00000739	1.98679028	
59.00	-55.5	-82.9	.00354	488.5	.00000656	1.98679684	
57.00	-54.9	-83.3	.00343	494.7	.00000709	1.98680393	
55.00	-54.7	-83.6	.00341	500.3	.00000697	1.98681091	
53.40	-54.5	-83.9	.00333	505.0	.00000550	1.98681641	
51.80	-54.7	-84.2	.00325	508.9	.00000536	1.98682177	
50.10	-54.9	-84.3	.00332	513.3	.00000569	1.98682746	
48.40	-54.9	-84.7	.00321	518.4	.00000565	1.98683311	
46.80	-54.5	-84.7	.00327	524.4	.00000528	1.98683839	
45.00	-53.9	-85.1	.00317	531.7	.00000590	1.98684429	
43.70	-53.1	-85.5	.00308	538.1	.00000414	1.98684843	
42.30	-53.3	-85.7	.00305	542.7	.00000438	1.98685281	
41.10	-53.3	-86.0	.00301	547.2	.00000370	1.98685651	
40.00	-53.3	-86.1	.00300	551.4	.00000337	1.98685987	
38.50	-53.3	-86.4	.00298	557.5	.00000457	1.98686445	
37.00	-52.9	-86.4	.00310	564.8	.00000465	1.98686910	

WASHINGTON, D.C.		9/7/67	1545Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
35.60	-52.8	-86.7	.00304	571.6	.00000438	1.98687348	
34.20	-52.0	-86.7	.00316	580.2	.00000441	1.98687789	
32.70	-51.4	-87.0	.00316	589.2	.00000483	1.98688272	
31.30	-51.1	-87.2	.00320	597.6	.00000453	1.98688725	
29.80	-51.1	-87.3	.00331	606.0	.00000498	1.98689222	
28.30	-50.7	-87.6	.00327	616.0	.00000502	1.98689725	
26.90	-50.0	-87.9	.00328	627.1	.00000468	1.98690192	
25.50	-49.4	-89.4	.00262	638.2	.00000420	1.98690613	
24.20	-48.9	-89.3	.00280	649.4	.00000359	1.98690972	
23.00	-48.2	-90.3	.00248	661.0	.00000323	1.98691295	
21.90	-47.7	-90.0	.00275	671.8	.00000292	1.98691587	
20.80	-47.2	-90.5	.00264	683.3	.00000301	1.98691888	
19.60	-46.7	-90.6	.00276	696.6	.00000329	1.98692217	
18.80	-46.2	-90.8	.00277	706.5	.00000225	1.98692442	
17.90	-45.7	-91.1	.00275	718.0	.00000253	1.98692696	
17.10	-45.0	-91.3	.00278	729.5	.00000225	1.98692921	
16.40	-44.5	-91.9	.00258	739.9	.00000191	1.98693112	
15.70	-44.1	-91.9	.00270	750.7	.00000188	1.98693299	
15.05	-43.4	-91.9	.00281	762.0	.00000182	1.98693481	
14.40	-43.1	-92.8	.00251	772.7	.00000176	1.98693657	
13.85	-42.8	-92.8	.00261	782.4	.00000143	1.98693800	
13.30	-42.6	-93.1	.00255	792.0	.00000145	1.98693945	
12.80	-42.6	-93.4	.00249	800.8	.00000128	1.98694073	
12.30	-42.6	-93.7	.00243	809.9	.00000125	1.98694198	
11.90	-42.8	-93.9	.00246	817.0	.00000098	1.98694296	
11.50	-42.0	-94.1	.00244	827.8	.00000100	1.98694396	
11.10	-41.3	-94.3	.00242	839.0	.00000098	1.98694494	
10.75	-40.5	-94.1	.00261	849.5	.00000089	1.98694584	
10.45	-39.8	-94.0	.00274	859.1	.00000080	1.98694664	
10.10	-39.5	-94.2	.00271	868.7	.00000097	1.98694761	
9.80	-39.5	-94.6	.00261	876.2	.00000080	1.98694842	
9.55	-38.7	-94.1	.00293	885.4	.00000070	1.98694912	
9.30	-38.1	-94.4	.00282	894.4	.00000073	1.98694985	
9.10	-37.9	-95.3	.00245	901.1	.00000054	1.98695038	

WASHINGTON,D.C.		10/3/67	1520Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
1018.10	20.2	11.9	8.64136	291.8			
1000.00	19.4	8.1	6.78512	292.6	.14245817	.14245817	
987.00	18.9	9.0	7.30532	293.2	.09345663	.23591480	
976.00	18.0	9.9	7.88298	293.2	.08524011	.32115491	
963.00	17.5	13.0	9.82988	293.8	.11748277	.43863767	
951.00	17.3	3.3	5.09213	294.7	.09135889	.52999656	
939.00	17.0	4.8	5.73149	295.4	.06626679	.59626335	
928.00	16.8	8.1	7.31774	296.2	.07323518	.66949853	
916.00	16.3	7.2	6.97245	296.8	.08749060	.75698914	
904.00	15.8	6.4	6.67553	297.4	.08355872	.84054786	
893.00	15.4	4.0	5.72236	298.1	.06957974	.91012760	
880.00	15.0	.6	4.52637	298.8	.06797598	.97810358	
870.00	14.5	-1.3	3.94482	299.3	.04322018	1.02132376	
859.00	14.0	-8.0	2.26024	299.9	.03482421	1.05614796	
848.00	13.6	-14.5	1.27640	300.6	.01984841	1.07599637	
838.00	13.0	-13.4	1.41867	300.9	.01375030	1.08974667	
826.50	12.6	-9.2	2.09583	301.8	.02062070	1.11036737	
815.00	12.3	-8.0	2.38274	302.7	.02627717	1.13664454	
804.00	12.0	-9.2	2.15468	303.5	.02546500	1.16210954	
793.00	11.4	-10.9	1.89292	304.0	.02271600	1.18482554	
783.00	11.1	-11.6	1.78971	304.8	.01878884	1.20361438	
772.00	10.6	-14.1	1.44685	305.5	.01816429	1.22177868	
762.00	9.8	-15.1	1.33762	305.8	.01420638	1.23598506	
752.00	9.2	-15.1	1.35544	306.3	.01374003	1.24972509	
742.00	8.3	-15.1	1.37375	306.5	.01392439	1.26364948	
732.00	8.0	-15.1	1.39256	307.3	.01411375	1.27776323	
722.00	7.7	-15.4	1.36996	308.2	.01409441	1.29185764	
712.00	6.8	-12.7	1.78124	308.5	.01607746	1.30793510	
704.00	6.0	-9.2	2.46196	308.6	.01731908	1.32525419	
694.00	5.2	-9.7	2.40914	308.9	.02485241	1.35010660	
685.00	4.3	-10.1	2.35286	309.1	.02186622	1.37197281	
676.00	3.4	-10.9	2.22171	309.3	.02100557	1.39297839	
667.00	2.6	-10.1	2.41660	309.6	.02129826	1.41427664	
658.00	1.9	-9.2	2.63480	310.0	.02319510	1.43747175	
650.00	1.0	-9.7	2.57289	310.1	.02125578	1.45872752	
641.00	.2	-10.1	2.51502	310.4	.02336276	1.48209028	
633.00	-.9	-12.7	2.00426	310.3	.01844595	1.50053623	
626.00	-1.8	-12.0	2.16466	310.2	.01488891	1.51542515	
617.00	-2.9	-12.7	2.05640	310.2	.01938233	1.53480747	
608.00	-3.6	-13.1	2.01929	310.8	.01871483	1.55352230	
600.00	-4.5	-13.8	1.92033	310.9	.01608001	1.56960231	
592.00	-5.4	-15.1	1.72279	311.0	.01486981	1.58447212	
584.50	-5.8	-16.7	1.50866	311.7	.01236519	1.59683731	
577.00	-6.1	-21.0	1.00701	312.5	.00962625	1.60646357	
569.00	-6.5	-24.7	.71228	313.3	.00701751	1.61348107	
560.00	-7.1	-29.1	.46158	314.0	.00539015	1.61887123	
553.00	-7.5	-29.0	.47583	314.7	.00334786	1.62221909	
546.00	-8.0	-28.1	.52872	315.2	.00358765	1.62580673	
538.50	-8.8	-26.2	.65110	315.5	.00451459	1.63032132	
531.00	-9.7	-26.3	.64758	315.7	.00496943	1.63529076	
524.00	-10.4	-26.5	.64306	316.0	.00460941	1.63990016	
517.50	-11.3	-26.2	.67755	316.1	.00437954	1.64427970	
510.50	-12.2	-24.9	.77723	316.3	.00519563	1.64947534	
504.00	-12.9	-26.2	.69572	316.5	.00488476	1.65436010	
497.00	-13.7	-28.8	.53939	316.9	.00441109	1.65877119	
490.00	-14.6	-31.3	.42029	317.1	.00342740	1.66219859	

WASHINGTON, D.C.		10/3/67	1520Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
482.70	-15.3	-31.5	.41942	317.5	.00312744	1.66532603	
475.00	-16.0	-31.2	.44106	318.1	.00338042	1.66870645	
468.50	-16.8	-31.6	.42512	318.4	.00287251	1.67157896	
462.00	-17.5	-33.9	.33874	318.7	.00253318	1.67411214	
455.00	-18.3	-34.3	.32837	319.2	.00238250	1.67649464	
448.00	-19.0	-34.5	.32837	319.7	.00234546	1.67884010	
441.00	-19.7	-35.0	.31413	320.2	.00229460	1.68113470	
435.00	-20.6	-36.0	.28725	320.4	.00184092	1.68297562	
428.00	-21.4	-36.6	.27169	320.9	.00199619	1.68497181	
421.00	-22.2	-39.0	.21263	321.3	.00172970	1.68670151	
415.00	-22.8	-42.4	.14572	321.8	.00109696	1.68779847	
409.00	-23.6	-45.7	.10078	322.2	.00075458	1.68855305	
403.00	-24.3	-46.3	.09567	322.6	.00060137	1.68915442	
397.00	-25.1	-45.1	.11109	323.0	.00063294	1.68978736	
390.50	-26.1	-42.1	.16062	323.2	.00090109	1.69068845	
384.00	-26.9	-41.9	.16737	323.6	.00108773	1.69177617	
378.00	-27.7	-42.8	.15242	324.1	.00097895	1.69275512	
372.00	-28.7	-44.0	.13606	324.2	.00088309	1.69363821	
366.30	-29.7	-44.5	.13041	324.3	.00077492	1.69441313	
360.00	-30.8	-44.6	.13115	324.6	.00084071	1.69525383	
355.00	-31.7	-44.4	.13608	324.6	.00068171	1.69593555	
350.00	-32.8	-44.5	.13648	324.4	.00069530	1.69663085	
344.00	-33.9	-44.8	.13261	324.6	.00082374	1.69745459	
338.00	-34.8	-46.2	.11536	324.9	.00075907	1.69821365	
332.50	-35.6	-48.1	.09338	325.3	.00058573	1.69879939	
327.00	-36.6	-48.1	.09495	325.6	.00052847	1.69932786	
321.50	-37.7	-48.7	.08879	325.7	.00051558	1.69984344	
316.00	-38.7	-48.7	.09033	325.9	.00050262	1.70034605	
311.00	-39.5	-49.3	.08530	326.2	.00044802	1.70079407	
306.00	-40.5	-49.3	.08761	326.3	.00044109	1.70123516	
300.00	-41.5	-49.6	.08575	326.8	.00053070	1.70176587	
294.00	-42.4	-50.3	.08060	327.4	.00050923	1.70227510	
289.00	-43.4	-50.3	.08199	327.5	.00041477	1.70268987	
284.00	-44.5	-50.4	.08176	327.6	.00041774	1.70310761	
279.00	-45.6	-50.7	.08072	327.7	.00041449	1.70352210	
274.00	-46.5	-51.9	.07071	328.1	.00038630	1.70390840	
269.50	-47.3	-52.7	.06512	328.5	.00031185	1.70422025	
265.00	-48.3	-52.8	.06495	328.6	.00029863	1.70451888	
260.00	-49.5	-54.6	.05296	328.7	.00030077	1.70481965	
255.00	-50.5	-55.3	.04907	329.0	.00026025	1.70507990	
250.00	-51.7	-55.6	.04817	329.1	.00024804	1.70532794	
245.00	-52.2	-54.8	.05460	330.2	.00026217	1.70559011	
240.00	-53.2	-56.1	.04696	330.8	.00025907	1.70584919	
235.00	-53.7	-57.5	.03973	331.9	.00022115	1.70607033	
230.20	-54.1	-58.9	.03398	333.3	.00018050	1.70625083	
225.00	-54.7	-59.6	.03168	334.6	.00017418	1.70642501	
220.50	-55.0	-59.9	.03086	336.0	.00014356	1.70656857	
216.00	-55.6	-60.5	.02896	337.1	.00013733	1.70670590	
211.30	-56.0	-61.5	.02601	338.6	.00013180	1.70683770	
207.00	-56.8	-62.8	.02226	339.3	.00010589	1.70694359	
202.60	-57.2	-63.8	.01959	340.8	.00009395	1.70703754	
198.00	-57.4	-64.8	.01742	342.7	.00008686	1.70712440	
193.50	-57.6	-65.9	.01518	344.6	.00007483	1.70719923	
189.00	-58.0	-67.3	.01270	346.3	.00006400	1.70726323	
185.50	-58.7	-67.7	.01233	347.1	.00004699	1.70730792	

WASHINGTON, D.C.

10/3/67

1520Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
182.00	-59.7	-68.1	.01186	347.3	.00004318	1.70735110
178.00	-60.4	-68.8	.01088	348.4	.00004639	1.70739749
174.00	-61.1	-70.0	.00930	349.5	.00004116	1.70743865
170.40	-61.3	-70.6	.00866	351.3	.00003298	1.70747162
167.00	-61.5	-70.9	.00848	352.9	.00002973	1.70750135
163.00	-61.8	-71.2	.00834	355.0	.00003432	1.70753567
159.00	-62.5	-71.5	.00812	356.3	.00003357	1.70756924
155.50	-63.2	-72.1	.00763	357.4	.00002812	1.70759736
152.00	-63.4	-73.4	.00637	359.3	.00002499	1.70762235
148.50	-63.2	-74.4	.00558	362.1	.00002132	1.70764367
145.00	-62.7	-74.3	.00584	365.4	.00002038	1.70766406
141.50	-62.5	-74.4	.00585	368.4	.00002088	1.70768493
138.00	-62.7	-75.4	.00518	370.6	.00001968	1.70770462
135.00	-62.9	-76.4	.00454	372.5	.00001487	1.70771949
132.00	-63.2	-77.3	.00402	374.5	.00001308	1.70773257
129.00	-63.4	-78.0	.00367	376.5	.00001176	1.70774433
126.00	-63.7	-78.0	.00371	378.6	.00001130	1.70775563
123.00	-63.7	-78.2	.00371	381.2	.00001135	1.70776698
120.00	-63.9	-78.3	.00375	383.5	.00001141	1.70777839
117.20	-64.2	-78.6	.00365	385.6	.00001056	1.70778896
114.00	-64.7	-78.7	.00370	387.8	.00001200	1.70780095
111.50	-66.0	-78.8	.00374	387.8	.00000948	1.70781043
109.00	-66.0	-78.8	.00382	390.3	.00000963	1.70782006
106.20	-66.0	-78.8	.00392	393.2	.00001106	1.70783111
104.00	-66.0	-78.7	.00406	395.6	.00000896	1.70784007
101.50	-66.2	-78.6	.00421	397.8	.00001054	1.70785061
99.10	-66.2	-79.2	.00389	400.6	.00000991	1.70786051
97.00	-65.7	-80.2	.00337	404.1	.00000776	1.70786828
94.80	-64.9	-81.2	.00296	408.2	.00000709	1.70787537
92.40	-63.9	-81.3	.00299	413.2	.00000727	1.70788264
90.00	-63.7	-81.5	.00294	416.8	.00000726	1.70788990
87.60	-63.7	-82.0	.00280	420.1	.00000702	1.70789692
85.20	-63.9	-82.2	.00276	422.9	.00000679	1.70790371
83.10	-64.2	-82.5	.00270	425.4	.00000584	1.70790955
81.00	-63.9	-82.9	.00260	429.1	.00000568	1.70791523
79.00	-63.2	-83.2	.00251	433.7	.00000522	1.70792045
76.90	-62.2	-83.5	.00246	439.0	.00000530	1.70792575
74.90	-61.3	-84.0	.00233	444.3	.00000487	1.70793062
72.80	-60.6	-84.4	.00224	449.3	.00000489	1.70793551
70.80	-60.2	-85.0	.00208	453.9	.00000440	1.70793991
68.90	-60.0	-85.2	.00206	457.9	.00000401	1.70794392
66.90	-59.7	-85.1	.00216	462.2	.00000431	1.70794822
65.00	-59.5	-85.0	.00226	466.5	.00000429	1.70795251
63.10	-59.5	-85.5	.00214	470.5	.00000426	1.70795678
61.00	-59.3	-86.0	.00202	475.5	.00000444	1.70796122
59.20	-59.3	-86.3	.00197	479.6	.00000365	1.70796487
57.20	-59.5	-86.7	.00189	483.9	.00000393	1.70796880
55.50	-60.0	-87.8	.00160	487.0	.00000302	1.70797183
53.80	-60.2	-87.9	.00162	490.9	.00000279	1.70797461
51.90	-59.5	-87.5	.00182	497.5	.00000332	1.70797794
50.10	-58.9	-87.1	.00204	504.0	.00000353	1.70798147
48.30	-58.0	-88.1	.00177	511.3	.00000349	1.70798495
46.70	-57.6	-88.1	.00183	517.3	.00000294	1.70798789
45.00	-57.4	-88.6	.00171	523.3	.00000307	1.70799096
43.30	-57.4	-88.9	.00171	529.1	.00000295	1.70799391

WASHINGTON,D.C.		10/3/67	1520Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
41.60	-57.2	-89.1	.00170	535.7	.00000295	1.70799686	
40.00	-57.0	-89.6	.00162	542.2	.00000270	1.70799956	
38.50	-56.8	-89.7	.00164	548.7	.00000249	1.70800205	
37.00	-56.8	-89.8	.00167	554.9	.00000253	1.70800458	
35.50	-56.6	-90.2	.00163	562.1	.00000252	1.70800710	
34.00	-56.2	-90.5	.00162	570.1	.00000247	1.70800957	
31.50	-55.8	-91.0	.00159	583.7	.00000408	1.70801365	
29.50	-55.0	-91.4	.00158	596.9	.00000322	1.70801687	
28.70	-54.8	-91.8	.00150	602.1	.00000125	1.70801812	
27.80	-54.3	-92.2	.00143	609.2	.00000134	1.70801947	
26.70	-53.9	-92.5	.00141	617.3	.00000159	1.70802106	
25.40	-53.7	-92.7	.00145	626.7	.00000189	1.70802295	
24.30	-53.9	-93.4	.00132	634.2	.00000155	1.70802450	
23.10	-54.1	-93.7	.00131	642.9	.00000159	1.70802610	
22.10	-53.9	-94.5	.00118	651.6	.00000125	1.70802735	
21.10	-53.5	-95.1	.00109	661.4	.00000115	1.70802850	
20.20	-53.3	-95.5	.00106	670.3	.00000098	1.70802948	
19.20	-53.0	-95.6	.00108	681.2	.00000109	1.70803057	
18.45	-51.4	-96.0	.00105	694.0	.00000080	1.70803137	
17.70	-50.0	-96.2	.00106	706.7	.00000080	1.70803218	
17.00	-48.6	-96.2	.00110	719.2	.00000076	1.70803294	
16.30	-47.5	-96.4	.00111	731.6	.00000079	1.70803373	
15.55	-47.2	-96.4	.00116	742.6	.00000086	1.70803459	
14.90	-46.8	-96.5	.00117	752.8	.00000076	1.70803535	
14.30	-46.5	-97.5	.00102	762.7	.00000066	1.70803601	
13.80	-46.0	-97.1	.00113	772.1	.00000054	1.70803654	

WASHINGTON,D.C.		11/29/67	1610Z			
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1022.50	-1.4	-9.8	1.61275	270.0		
1004.00	-2.5	-9.8	1.64255	270.4	.03072596	.03072596
985.00	-3.4	-9.8	1.67432	270.9	.03215319	.06287915
965.00	-4.4	-9.8	1.74539	273.2	.06978966	.13266881
945.00	-5.4	-9.8	1.79491	274.3	.04696296	.17963177
925.00	-6.2	-9.8	1.82276	274.7	.02584039	.20547216
893.00	-7.2	-10.3	1.77084	274.7	.02200152	.22747368
881.00	-8.1	-11.7	1.58285	274.8	.02053267	.24800634
869.00	-9.2	-23.0	.55013	274.8	.01305896	.26106530
857.00	-8.7	-28.1	.33652	276.4	.00542842	.26649372
844.00	-8.4	-23.3	.55143	277.9	.00588945	.27238317
832.00	-8.3	-24.6	.49232	279.2	.00639026	.27877343
819.00	-8.3	-24.3	.51303	280.4	.00666808	.28544150
807.00	-8.3	-23.3	.57674	281.6	.00667201	.29211351
793.00	-8.0	-27.0	.40682	283.3	.00702539	.29913890
781.00	-7.9	-30.5	.28699	284.7	.00424781	.30338672
768.00	-6.6	-40.5	.09783	287.4	.00255235	.30593906
754.00	-5.8	-41.2	.09279	289.8	.00136156	.30730063
740.00	-6.7	-28.7	.36540	290.4	.00327280	.31057343
727.00	-7.9	-19.2	.95142	290.6	.00873393	.31930736
713.00	-8.5	-14.2	1.55020	291.5	.01786859	.33717595
700.00	-9.2	-15.4	1.41652	292.3	.01967716	.35685311
688.00	-9.7	-15.8	1.39274	293.2	.01719952	.37405263
675.00	-10.1	-17.6	1.19976	294.4	.01719511	.39124773
661.00	-10.6	-17.9	1.18575	295.6	.01703931	.40828705
649.00	-11.1	-19.2	1.06596	296.5	.01378590	.42207295
637.00	-11.8	-21.4	.88466	297.3	.01194252	.43401547
623.50	-12.6	-22.5	.80896	298.2	.01166524	.44568071
610.00	-13.7	-20.5	1.00600	298.8	.01250096	.45818166
597.00	-15.0	-20.5	1.02794	299.2	.01349035	.47167201
586.00	-16.1	-21.1	.98890	299.4	.01131895	.48299097
572.50	-17.1	-21.7	.95691	300.3	.01340222	.49639319
560.00	-18.2	-21.9	.95106	300.8	.01216815	.50856134
549.00	-19.2	-22.2	.94455	301.4	.01063861	.51919995
538.00	-20.4	-22.5	.93772	301.8	.01056372	.52976367
528.00	-21.1	-23.3	.88192	302.5	.00928384	.53904751
518.00	-21.9	-26.1	.68408	303.2	.00798978	.54703729
507.00	-22.5	-29.5	.48995	304.3	.00658891	.55362619
500.00	-23.5	-30.5	.44840	304.3	.00335121	.55697741
491.00	-24.3	-31.6	.40583	305.0	.00392246	.56089987
483.00	-24.8	-32.4	.38207	305.8	.00321592	.56411579
475.00	-25.4	-33.2	.35408	306.5	.00300469	.56712048
468.00	-26.1	-33.9	.33439	307.0	.00245880	.56957927
460.00	-26.9	-34.6	.31688	307.4	.00265822	.57223749
452.00	-28.1	-35.8	.28141	307.5	.00244199	.57467948
449.00	-29.0	-37.3	.24061	306.9	.00079900	.57547848
437.00	-30.1	-38.1	.22492	308.0	.00285016	.57832864
429.00	-31.0	-38.3	.22553	308.4	.00183856	.58016720
422.00	-31.6	-39.8	.19433	309.0	.00149950	.58166671
415.00	-32.6	-42.1	.15086	309.3	.00123282	.58289953
408.00	-33.4	-44.4	.11773	309.8	.00095926	.58385879
400.00	-34.5	-45.5	.10583	310.1	.00091249	.58477128
392.00	-35.4	-46.5	.09550	310.7	.00082174	.58559301
384.50	-36.3	-48.2	.07958	311.3	.00066994	.58626296
377.00	-37.4	-48.2	.08116	311.6	.00061508	.58687803
371.00	-38.1	-48.0	.08442	312.0	.00050686	.58738489

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
364.00	-39.1	-46.7	.10040	312.4	.00066003	.59804493
357.50	-40.0	-45.9	.11271	312.8	.00070672	.59875164
351.00	-40.9	-46.9	.10165	313.3	.00071087	.59846252
344.50	-41.9	-46.9	.10357	313.5	.00068058	.59014310
338.00	-42.7	-45.9	.11921	314.2	.00073881	.59088191
331.50	-43.6	-45.7	.12457	314.7	.00080846	.59169038
325.00	-44.4	-45.9	.12398	315.4	.00082427	.59251465
319.00	-45.3	-46.8	.11323	315.8	.00072613	.59324078
313.00	-46.1	-47.5	.10611	316.4	.00067143	.59391221
306.00	-47.1	-48.2	.10000	317.0	.00073610	.59464832
300.00	-47.8	-48.8	.09409	317.9	.00059415	.59524247
294.00	-48.7	-49.7	.08672	318.5	.00055350	.59579597
288.00	-49.9	-50.4	.08097	318.7	.00051333	.59630930
282.50	-50.8	-51.0	.07645	319.1	.00041173	.59675103
277.00	-51.9	-52.5	.06426	319.4	.00039484	.59714587
271.00	-51.9	-60.9	.02204	321.4	.00026417	.59741004
265.00	-51.3	-62.1	.01900	324.2	.00012560	.59753564
260.00	-52.0	-62.3	.01900	324.9	.00009693	.59763257
255.00	-52.8	-62.2	.01955	325.6	.00009835	.59773092
249.00	-53.0	-63.9	.01566	327.6	.00010780	.59783871
244.00	-53.5	-64.6	.01454	328.6	.00007704	.59791575
239.00	-53.7	-65.4	.01338	330.3	.00007123	.59798698
234.00	-54.1	-65.6	.01328	331.7	.00006801	.59805499
229.00	-54.5	-66.3	.01223	333.1	.00006507	.59812006
224.00	-54.5	-69.0	.00844	335.3	.00005274	.59817280
220.00	-53.7	-70.0	.00736	338.2	.00003225	.59820504
216.00	-53.9	-70.1	.00742	339.7	.00003016	.59823520
211.50	-54.1	-71.0	.00667	341.4	.00003234	.59826754
207.00	-53.9	-71.8	.00598	343.8	.00002903	.59829657
202.00	-54.1	-71.7	.00626	345.9	.00003120	.59832777
198.00	-54.7	-72.5	.00565	347.0	.00002429	.59835206
193.50	-54.9	-73.6	.00491	348.9	.00002423	.59837629
189.00	-55.5	-73.8	.00487	350.3	.00002244	.59839873
185.00	-55.9	-74.5	.00443	351.8	.00001897	.59841770
181.00	-55.5	-75.1	.00411	354.7	.00001743	.59843513
176.70	-54.7	-75.9	.00374	358.4	.00001723	.59845236
172.50	-54.3	-76.8	.00332	361.6	.00001511	.59846747
168.50	-54.5	-76.9	.00332	363.7	.00001353	.59848100
164.00	-54.5	-77.4	.00315	366.5	.00001484	.59849584
160.00	-54.7	-78.1	.00288	368.7	.00001229	.59850813
157.00	-54.9	-78.7	.00270	370.4	.00000852	.59851666
153.00	-55.7	-79.8	.00231	371.8	.00001022	.59852688
149.00	-56.5	-79.8	.00234	373.2	.00000949	.59853637
145.50	-57.2	-79.5	.00255	374.6	.00000873	.59854510
142.00	-57.8	-79.2	.00275	376.1	.00000945	.59855455
138.00	-58.2	-81.4	.00196	378.5	.00000960	.59856415
134.00	-58.7	-81.1	.00213	380.9	.00000834	.59857249
131.00	-58.9	-81.1	.00215	383.0	.00000654	.59857903
128.00	-59.3	-81.1	.00223	384.7	.00000669	.59858572
124.50	-60.0	-81.3	.00220	386.5	.00000791	.59859364
121.00	-60.7	-80.2	.00271	388.4	.00000878	.59860241
117.50	-61.4	-81.0	.00246	390.4	.00000922	.59861164
114.00	-62.1	-81.1	.00247	392.4	.00000879	.59862043
111.00	-61.7	-81.0	.00260	396.3	.00000776	.59862819
108.00	-60.7	-80.7	.00282	401.2	.00000829	.59863648

WASHINGTON, D.C.		11/29/67	1610Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
105.00	-60.0	-80.8	.00286	405.8	.00000869	.59864517	
102.00	-60.0	-81.0	.00283	409.2	.00000870	.59865387	
99.00	-60.0	-80.9	.00296	412.7	.00000885	.59866272	
96.70	-60.0	-82.0	.00252	415.5	.00000642	.59866914	
93.90	-60.0	-81.9	.00263	419.0	.00000735	.59867649	
91.00	-59.6	-82.3	.00257	423.7	.00000769	.59868418	
88.30	-58.7	-82.7	.00248	429.1	.00000694	.59869112	
85.50	-58.5	-82.7	.00256	433.5	.00000718	.59869830	
82.80	-58.9	-81.8	.00306	436.6	.00000773	.59870604	
80.00	-59.3	-83.2	.00248	440.0	.00000791	.59871395	
77.40	-60.0	-83.9	.00229	442.7	.00000632	.59872027	
75.00	-60.9	-84.2	.00226	444.8	.00000556	.59872583	
72.40	-60.9	-84.8	.00211	449.3	.00000578	.59873161	
70.00	-60.7	-84.8	.00218	454.2	.00000525	.59873685	
67.60	-60.2	-85.0	.00216	459.7	.00000530	.59874216	
65.30	-60.0	-85.7	.00197	464.8	.00000484	.59874700	
63.20	-60.0	-85.4	.00217	469.1	.00000443	.59875143	
61.00	-60.0	-85.6	.00218	473.9	.00000487	.59875630	
59.10	-60.0	-86.2	.00201	478.2	.00000405	.59876035	
57.00	-59.8	-86.3	.00205	483.7	.00000435	.59876470	
55.10	-59.1	-85.7	.00234	490.0	.00000425	.59876895	
53.10	-58.9	-86.4	.00217	495.7	.00000459	.59877354	
51.30	-58.5	-87.2	.00193	501.6	.00000376	.59877729	
49.50	-57.8	-87.3	.00197	508.3	.00000358	.59878087	
47.90	-57.2	-87.2	.00207	514.6	.00000329	.59878416	
46.20	-56.8	-87.3	.00211	521.0	.00000362	.59878778	
44.60	-56.5	-88.0	.00194	526.7	.00000329	.59879108	
42.90	-56.1	-88.4	.00187	533.6	.00000329	.59879437	
41.30	-56.1	-88.8	.00181	539.5	.00000300	.59879737	
39.80	-56.3	-89.0	.00181	544.7	.00000276	.59880012	
38.30	-56.3	-89.0	.00188	550.7	.00000282	.59880294	
36.90	-56.1	-89.5	.00178	557.1	.00000261	.59880555	
35.40	-55.7	-89.8	.00175	564.8	.00000268	.59880823	
33.90	-54.7	-90.1	.00175	574.5	.00000267	.59881090	
32.40	-54.1	-90.5	.00169	583.5	.00000264	.59881353	
30.90	-53.5	-90.7	.00171	593.1	.00000259	.59881613	
29.40	-52.8	-91.1	.00168	603.6	.00000259	.59881872	
28.00	-52.2	-91.2	.00173	613.7	.00000243	.59882115	
26.60	-51.3	-91.6	.00167	625.3	.00000243	.59882358	
25.30	-50.8	-92.7	.00144	635.9	.00000206	.59882563	
24.00	-50.1	-93.3	.00135	647.6	.00000185	.59882748	
22.80	-49.3	-93.1	.00149	659.2	.00000173	.59882921	
21.60	-48.7	-93.5	.00146	671.6	.00000180	.59883101	
20.40	-48.3	-93.7	.00148	683.7	.00000179	.59883280	
19.80	-48.8	-93.6	.00156	688.0	.00000092	.59883372	
19.00	-48.8	-93.1	.00179	696.1	.00000136	.59883508	
18.30	-48.7	-93.0	.00190	704.1	.00000131	.59883639	
17.60	-48.7	-94.2	.00155	712.0	.00000122	.59883761	
17.00	-48.5	-94.4	.00156	719.7	.00000094	.59883855	
15.80	-48.3	-93.8	.00186	735.4	.00000209	.59884064	
15.25	-48.3	-93.8	.00193	742.9	.00000106	.59884170	
14.80	-48.3	-94.1	.00189	749.3	.00000086	.59884256	
14.30	-48.1	-95.5	.00150	757.3	.00000085	.59884341	
13.80	-48.1	-94.8	.00178	765.0	.00000083	.59884425	

WASHINGTON,D.C.		12/19/67	1700Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	e (°K)	M (cm)	ΣM (cm)	
1017.10	10.9	2.4	4.47615	282.6			
1000.00	10.7	2.4	4.55325	283.9	.07877658	.07877658	
979.00	10.9	-1.3	3.51237	285.7	.08641706	.16519365	
965.00	10.5	.1	3.99719	286.6	.05363950	.21883315	
955.00	9.8	1.6	4.50251	286.7	.04336563	.26219878	
940.00	9.5	2.4	4.84615	287.7	.07154557	.33374435	
927.00	9.3	1.6	4.63952	288.7	.06291492	.39665927	
910.00	8.7	.9	4.47911	289.6	.07908991	.47574918	
895.00	8.3	.1	4.31198	290.5	.06727853	.54302771	
882.50	8.0	-2.6	3.48908	291.4	.04975145	.59277916	
870.00	8.0	-6.7	2.48934	292.6	.03812753	.63090669	
856.00	8.0	-17.2	.97686	293.9	.02475853	.65566522	
841.00	8.1	-27.1	.37795	295.6	.01036844	.66603366	
827.00	8.0	-26.0	.42997	296.8	.00577080	.67180446	
813.00	7.8	-25.8	.44766	298.1	.00626869	.67807315	
797.50	7.3	-26.7	.41694	299.1	.00683737	.68491052	
785.00	7.0	-27.3	.39635	300.2	.00518678	.69009730	
772.00	6.8	-20.9	.76002	301.5	.00766972	.69776702	
758.00	6.8	-15.8	1.25546	303.0	.01439621	.71216322	
745.00	6.7	-12.4	1.75647	304.4	.01997703	.73214026	
730.00	6.2	-10.2	2.18304	305.7	.03014924	.76228949	
716.00	5.1	-9.7	2.32093	306.1	.03217113	.79446062	
704.00	4.1	-10.6	2.17555	306.5	.02752936	.82198998	
691.00	3.2	-11.1	2.12791	307.2	.02854323	.85053322	
678.00	2.1	-12.0	2.00664	307.6	.02742292	.87795614	
664.00	.7	-12.8	1.90002	307.9	.02790457	.90586071	
650.00	-.6	-13.2	1.86948	308.2	.02692491	.93278562	
638.00	-1.7	-13.6	1.83854	308.7	.02270205	.95548767	
626.00	-3.0	-14.4	1.74276	308.8	.02192618	.97741385	
613.00	-4.2	-15.1	1.66125	309.3	.02257752	.99999137	
600.00	-5.7	-15.5	1.64174	309.5	.02190752	1.02189890	
588.50	-7.1	-16.2	1.56440	309.6	.01881146	1.04071036	
576.00	-8.1	-25.1	.67809	310.3	.01430151	1.05501187	
563.50	-9.0	-25.1	.69314	311.2	.00874504	1.06375691	
551.00	-10.3	-20.4	1.12744	311.7	.01161079	1.07536770	
539.00	-11.7	-21.8	1.00492	312.0	.01305516	1.08842286	
528.00	-13.1	-23.1	.90044	312.1	.01069325	1.09911612	
516.00	-14.4	-24.6	.79389	312.7	.01037340	1.10948952	
510.00	-15.1	-23.6	.88569	312.8	.00514154	1.11463106	
504.00	-15.6	-23.6	.89624	313.2	.00545485	1.12008591	
498.00	-16.2	-24.1	.86348	313.5	.00538689	1.12547280	
492.00	-16.7	-26.2	.70715	314.0	.00480804	1.13028084	
485.00	-17.4	-28.2	.58860	314.5	.00462766	1.13490850	
479.00	-17.7	-28.8	.56005	315.2	.00351626	1.13842475	
473.00	-18.3	-29.4	.53322	315.7	.00334671	1.14177147	
467.00	-18.8	-29.3	.51884	316.2	.00322056	1.14499202	
462.00	-19.4	-30.2	.50372	316.4	.00260854	1.14760056	
456.00	-20.3	-31.1	.46309	316.5	.00295959	1.15056016	
450.00	-20.8	-32.1	.41948	317.1	.00270171	1.15326187	
444.00	-21.4	-33.2	.38132	317.5	.00245140	1.15571328	
438.00	-22.2	-34.5	.33626	317.8	.00219665	1.15790993	
432.00	-23.3	-35.5	.30332	317.6	.00195789	1.15986782	
427.00	-23.8	-36.0	.29218	318.0	.00151913	1.16138695	
421.00	-24.8	-36.9	.26939	317.9	.00171909	1.16310604	
416.00	-25.5	-37.6	.25224	318.2	.00133067	1.16443671	
410.50	-26.1	-38.1	.24041	318.6	.00138243	1.16581914	

WASHINGTON,D.C.		12/19/67	1700Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
405.00	-26.9	-38.2	.24012	318.8	.00134841	1.16716754	
399.00	-27.8	-39.7	.20727	319.0	.00136957	1.16853711	
394.00	-28.7	-40.3	.19546	318.9	.00102738	1.16956449	
388.00	-29.7	-40.6	.19301	319.1	.00118920	1.17075369	
382.00	-30.5	-40.7	.19328	319.5	.00118251	1.17193620	
377.00	-31.2	-40.8	.19320	319.7	.00098589	1.17292209	
372.00	-32.2	-41.2	.18782	319.6	.00097197	1.17389406	
366.00	-33.1	-42.6	.16242	319.9	.00107217	1.17496623	
360.00	-34.2	-43.8	.14314	319.9	.00093539	1.17590162	
354.30	-35.2	-43.6	.14920	320.0	.00085016	1.17675178	
349.00	-36.1	-45.8	.11666	320.3	.00071889	1.17747067	
343.00	-37.1	-46.8	.10535	320.5	.00067963	1.17815030	
337.00	-38.2	-47.7	.09652	320.6	.00061798	1.17876828	
332.00	-39.2	-48.1	.09252	320.5	.00048223	1.17925051	
327.00	-40.3	-48.2	.09289	320.5	.00047296	1.17972347	
322.00	-41.5	-48.2	.09433	320.2	.00047760	1.18020107	
316.00	-42.6	-48.0	.09948	320.4	.00059330	1.18079437	
311.00	-42.9	-47.3	.10958	321.5	.00053333	1.18132770	
306.00	-43.2	-47.3	.11137	322.5	.00056367	1.18189137	
300.00	-43.4	-48.1	.10239	324.1	.00065435	1.18254572	
296.00	-43.5	-50.2	.08035	325.2	.00037292	1.18291864	
291.00	-43.7	-52.4	.06262	326.5	.00036472	1.18328336	
287.00	-44.0	-54.6	.04768	327.4	.00022510	1.18350846	
282.50	-44.2	-56.7	.03672	328.6	.00019376	1.18370222	
278.00	-44.5	-58.7	.02876	329.6	.00015032	1.18385254	
273.00	-45.0	-60.4	.02331	330.7	.00013283	1.18398537	
268.00	-45.6	-60.5	.02331	331.5	.00011893	1.18410429	
262.50	-46.3	-60.4	.02425	332.5	.00013344	1.18423773	
258.00	-47.0	-61.1	.02245	333.1	.00010721	1.18434495	
253.00	-47.7	-62.7	.01846	334.0	.00010437	1.184444932	
248.00	-48.2	-63.5	.01667	335.1	.00008962	1.18453893	
243.00	-49.0	-64.3	.01521	335.7	.00008132	1.18462025	
238.00	-49.8	-65.1	.01400	336.7	.00007451	1.18469475	
233.00	-50.1	-65.5	.01340	338.2	.00006989	1.18476464	
228.00	-50.9	-66.0	.01282	339.1	.00006686	1.18483150	
224.00	-51.2	-66.4	.01221	340.3	.00005107	1.18488257	
220.00	-51.6	-66.8	.01175	341.5	.00004889	1.18493146	
215.50	-52.2	-67.7	.01060	342.6	.00005132	1.18498278	
211.00	-52.7	-68.5	.00956	343.8	.00004628	1.18502906	
206.50	-53.1	-69.4	.00862	345.3	.00004174	1.18507080	
202.00	-53.3	-70.5	.00746	347.2	.00003691	1.18510771	
197.40	-53.7	-71.7	.00639	348.8	.00003250	1.18514021	
193.00	-54.3	-72.4	.00590	350.1	.00002758	1.18516779	
188.70	-54.9	-73.0	.00545	351.4	.00002491	1.18519270	
184.00	-55.5	-73.7	.00504	353.0	.00002515	1.18521786	
180.00	-55.8	-74.2	.00479	354.9	.00002006	1.18523791	
176.00	-56.8	-74.6	.00460	355.4	.00001915	1.18525706	
172.00	-57.5	-75.0	.00441	356.7	.00001837	1.18527544	
168.00	-58.1	-75.3	.00428	358.0	.00001772	1.18529315	
164.00	-59.0	-75.7	.00415	358.9	.00001720	1.18531035	
160.00	-59.3	-76.0	.00402	361.1	.00001667	1.18532702	
156.40	-59.5	-76.7	.00372	363.1	.00001423	1.18534125	
152.50	-60.2	-77.2	.00349	364.5	.00001435	1.18535560	
148.70	-60.7	-77.9	.00322	366.3	.00001301	1.18536861	
145.00	-61.4	-78.4	.00304	367.7	.00001182	1.18538043	

WASHINGTON, D.C.	12/19/67	1700Z	P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
141.60	-61.9	-79.0	.00283	369.3	.00001018	1.18539061			
138.00	-61.9	-79.7	.00260	372.0	.00000997	1.18540058			
135.00	-61.6	-79.8	.00259	374.8	.00000794	1.18540852			
132.00	-62.4	-78.8	.00315	375.9	.00000878	1.18541729			
128.50	-63.4	-77.5	.00400	376.9	.00001276	1.18543005			
125.00	-64.2	-75.6	.00556	378.5	.00001706	1.18544711			
122.00	-65.0	-76.5	.00494	379.6	.00001606	1.18546318			
118.50	-65.6	-79.8	.00299	381.8	.00001416	1.18547733			
115.50	-66.2	-80.9	.00254	383.5	.00000845	1.18548578			
112.00	-67.0	-80.1	.00297	385.3	.00000983	1.18549562			
109.50	-67.3	-79.2	.00353	387.2	.00000829	1.18550390			
107.00	-67.6	-78.6	.00398	389.2	.00000957	1.18551347			
104.00	-67.9	-78.3	.00429	391.8	.00001265	1.18552612			
101.00	-67.6	-78.3	.00442	395.7	.00001334	1.18553945			
98.10	-67.0	-78.3	.00455	400.2	.00001328	1.18555273			
95.50	-65.9	-78.3	.00468	405.5	.00001223	1.18556497			
92.80	-64.8	-80.1	.00363	411.0	.00001144	1.18557641			
90.00	-65.0	-81.5	.00293	414.1	.00000937	1.18558578			
87.60	-65.3	-81.9	.00285	416.8	.00000708	1.18559286			
85.20	-65.9	-81.9	.00289	419.0	.00000703	1.18559989			
82.80	-66.7	-81.5	.00318	420.6	.00000744	1.18560733			
80.40	-67.0	-80.7	.00379	423.6	.00000852	1.18561585			
78.00	-67.3	-80.7	.00386	426.7	.00000936	1.18562521			
75.50	-67.9	-81.2	.00368	429.4	.00000961	1.18563482			
73.10	-68.5	-81.7	.00351	432.1	.00000881	1.18564363			
70.80	-68.2	-82.1	.00339	436.7	.00000809	1.18565172			
68.60	-67.3	-82.4	.00331	442.6	.00000751	1.18565923			
66.30	-65.6	-82.7	.00328	450.7	.00000773	1.18566696			
64.20	-64.2	-82.9	.00325	457.9	.00000700	1.18567397			
62.20	-64.5	-83.3	.00313	461.4	.00000650	1.18568046			
60.20	-64.8	-83.6	.00309	465.1	.00000633	1.18568680			
58.30	-65.9	-84.2	.00288	466.9	.00000578	1.18569258			
56.40	-66.4	-82.9	.00370	470.1	.00000638	1.18569896			
54.50	-66.2	-83.6	.00342	475.3	.00000690	1.18570586			
52.70	-65.9	-84.5	.00305	480.6	.00000593	1.18571179			
50.80	-65.6	-84.6	.00306	486.3	.00000592	1.18571770			
49.00	-65.3	-84.8	.00308	492.0	.00000563	1.18572333			
47.20	-65.0	-85.1	.00305	498.0	.00000563	1.18572897			
45.60	-65.0	-85.4	.00302	502.9	.00000495	1.18573391			
43.90	-65.0	-85.5	.00303	508.4	.00000525	1.18573916			
42.30	-65.0	-86.0	.00290	513.8	.00000484	1.18574400			
40.80	-65.0	-86.3	.00287	519.2	.00000441	1.18574841			
39.20	-64.8	-86.5	.00289	525.8	.00000469	1.18575311			
37.50	-64.2	-86.6	.00297	533.9	.00000507	1.18575817			
35.90	-63.2	-86.7	.00305	543.3	.00000490	1.18576308			
34.30	-62.6	-86.3	.00341	551.8	.00000526	1.18576834			
32.60	-61.9	-87.2	.00303	561.9	.00000557	1.18577391			
31.30	-60.9	-87.4	.00305	571.1	.00000402	1.18577793			
29.70	-60.4	-87.8	.00299	581.0	.00000492	1.18578285			
28.50	-60.2	-88.1	.00295	588.6	.00000364	1.18578649			
27.25	-59.7	-88.2	.00303	597.5	.00000381	1.18579030			
26.00	-59.3	-88.6	.00301	606.8	.00000384	1.18579414			
24.90	-58.3	-89.0	.00291	617.0	.00000331	1.18579745			
23.80	-58.1	-89.2	.00293	625.7	.00000326	1.18580072			
22.80	-57.7	-89.6	.00283	634.7	.00000294	1.18580365			

WASHINGTON, D.C.		12/19/67	1700Z				
P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)	
21.80	-57.0	-89.9	.00279	644.8	.00000286	1.18580651	
20.95	-56.2	-90.3	.00273	654.8	.00000238	1.18580890	
20.20	-55.5	-90.6	.00266	663.6	.00000206	1.18581095	
19.35	-54.3	-90.2	.00301	675.5	.00000244	1.18581340	
18.50	-53.3	-90.9	.00278	687.3	.00000250	1.18581590	
17.80	-52.7	-90.9	.00289	696.8	.00000201	1.18581791	
17.00	-52.2	-91.2	.00283	707.9	.00000232	1.18582024	
16.35	-51.6	-91.3	.00289	717.6	.00000189	1.18582213	
15.70	-51.0	-91.6	.00288	727.8	.00000191	1.18582404	
15.10	-51.0	-91.8	.00286	736.0	.00000174	1.18582578	
14.60	-50.9	-91.8	.00295	743.7	.00000148	1.18582726	
14.10	-50.5	-91.7	.00313	752.4	.00000155	1.18582880	
13.60	-50.3	-91.7	.00325	760.8	.00000162	1.18583043	
13.15	-49.4	-90.6	.00408	771.3	.00000167	1.18583210	
12.70	-48.2	-90.6	.00422	783.3	.00000189	1.18583399	
12.30	-47.8	-90.6	.00436	791.7	.00000174	1.18583573	
11.95	-47.7	-92.0	.00345	798.9	.00000139	1.18583712	

Security Classification

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13. ABSTRACT The vertical distribution of water vapor to stratospheric levels has been measured at monthly intervals over Washington, D.C., during 1966 and 1967. The data for 23 soundings are presented individually in graphs and tables.		

Security Classification

14 KEY WORDS	LINK A		LINK B		LINK C	
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