NRL Report 6447

Water Vapor Observations at Low, Middle, and High Latitudes During 1964 and 1965

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ABSTRACT

The vertical distribution of water vapor to stratospheric levels has been measured over Washington, D.C.; Trinidad, West Indies; and Thule, Greenland, during 1964 and 1965, the period of the International Years of the Quiet Sun. The data for fifty-one soundings are presented individually 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
FASS 00-005/652-1/R004-02-01
and RF 003-02-41-4251

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Table 1
Place and Time of Water Vapor Soundings

Washington, D.C.	Trinidad, West Indies	Thule, Greenland
1-16-64 1800 GMT	1-23-64 1341 GMT	
2-26-64 1635	2-27-64 1353	
3-16-64 1816	3-26-64 1327	
4-16-64 1657	4-24-64 1605	
5-26-64 1424	5-22-64 1325	
6-26-64 1444	6-20-64 1830	
7-23-64 1430	7-15-64 1440	
8-25-64 1730	8-14-64 1412	
9-15-64 1430	9-28-64 1347	
	9-29-64 1345	
10-13-64 1520	10-21-64 1334	
11-10-64 1040	11-17-64 1341	
	11-20-64 1340	
12-22-64 1707	12-16-64 1405	
1-28-65 1715		
2-27-65 1530	2-19-65 1425	
3-16-65 1647	3-25-65 1330	
4-21-65 1658	4-23-65 1345	
5-10-65 1638	5-21-65 1400	
6-28-65 1330	6-23-65 1340	
7-30-65 1510		7-22-65 1900 GMT
8-12-65 1524		8-22-65 1315
		8-22-65 1925
9- 7-65 1839		
10-13-65 1510	10-21-65 1335	
10-13-65 1910	10-22-65 1345	
11-23-65 1635	11-21-65 1420	
12-22-65 1950	12-14-65 1330	

WATER VAPOR OBSERVATIONS AT LOW, MIDDLE, AND HIGH LATITUDES DURING 1964 AND 1965

INTRODUCTION

A balloon-borne frost-point hygrometer was used to obtain monthly measurements of the vertical distribution of water vapor during 1964 and 1965, the International Years of the Quiet Sun (IQSY). Measurements were made from a site near Washington, D.C. (38.6°N, 76.6°W) and from the U.S. Naval Station, Trinidad, West Indies (10.7°N, 61.6°W). In addition, a few measurements were made from Thule Air Force Base, Thule, Greenland (76.5°N, 68.8°W).

A continuous sequence of monthly soundings were obtained at Washington for the two-year period (Table 1). Strong easterly winds over Trinidad during July, August, and September 1965 precluded the collection of stratospheric data for this interval of three months. During the interval, three soundings were made at Thule, Greenland.

The selection of observation days was based on the requirements of the sounding system. The criteria for a flight day was: surface winds under 10 knots, maximum upper level winds under 120 knots, and nearly cloudless skys. It was frequently necessary to depart from the criteria, especially in regard to cloud cover, to maintain a continuity of monthly observations. This was particularly true of Trinidad, where the soundings were made during a one-week visit each month and where high level cirrus were prevalent during most of the year. The clear-sky criteria was for avoiding ice or water contamination from clouds when possible, although the practice constitutes a bias toward lower tropospheric humidities.

INSTRUMENTATION

Atmospheric water vapor distributions were obtained by means of an automatic dew-point and frost-point hygrometer (1), 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 dew points.

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 (2) and adopted by the Twelfth Conference of Directors of the International Meteorological Organization (1947).

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 determines 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

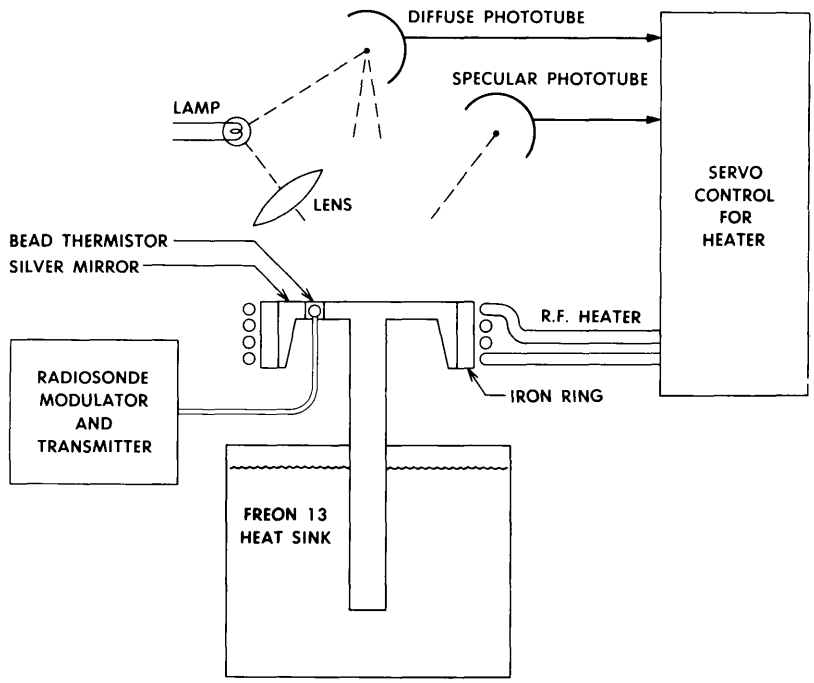

Fig. 1 - Frost-point hygrometer

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 frost-point temperature, air temperature, and an audio reference signal to a ground based receiver. A modification of the radiosonde baroswitch programmer provides a 70-percent allocation of observation time to the measurement of frost-point temperature. The assembled instrumentation is shown in Fig. 2.

A major problem in the measurement of water vapor at stratospheric levels from sounding balloons is water vapor contamination from the equipment and balloon system (3). 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, supporting the instrumentation during both the ascent and descent. Rates of rise and descent are in the range of 1000 to 2000 feet per minute. A deployment reel lowers the hygrometer 1000 feet beneath the balloon and the associated flight equipment.

The vertical distribution of temperature and frost-point for a complete ascent-descent sounding is shown in Fig. 3. At stratospheric levels, the higher frost points observed during ascent reflect the predominant contribution of water vapor contamination which evolves from the flight assembly. After balloon turnaround, when sampling commences ahead of the wash

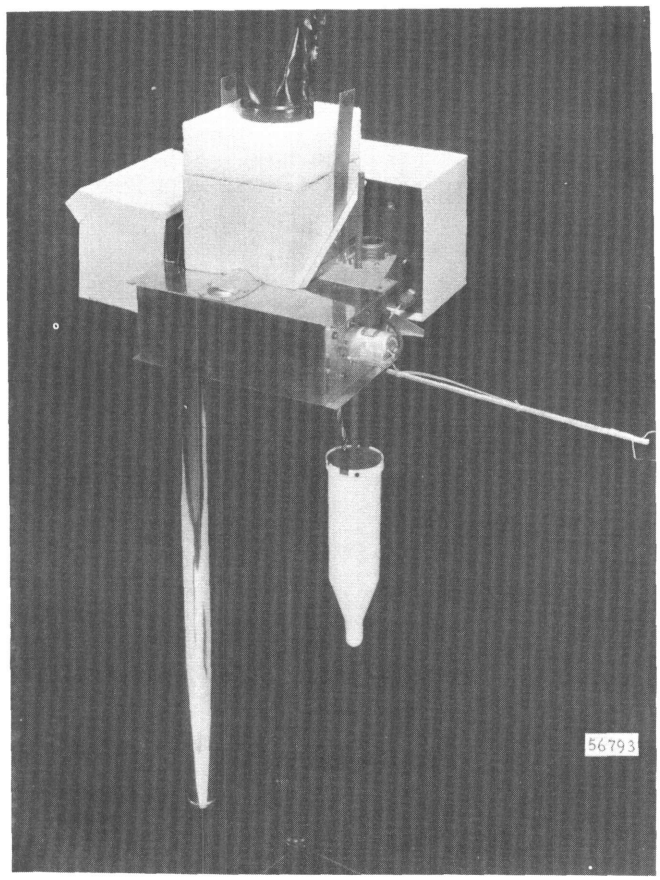

Fig. 2 - Frost point-hygrometer and radiosonde transmitter

from the flight train, the frost point drops to a lower value and stabilizes. The contaminant contribution at the lower frost point is not known; however, as the descent continues and the ambient temperature decreases, the rate of evolvement of water vapor from the walls of the sensor cavity and inlet duct should continue to decrease. The observations on the other hand show an increase in the overall vapor pressure during this decrease in the contribution from the walls, so that the proportionate contribution becomes progressively less with decreasing altitude.

The observed minimum of frost point following balloon turnaround can be regarded as placing an upper limit to the contamination error for the lower datum levels. For illustration, let it be assumed that the observed minimum frost point of -95°C at the 11-millibar level (Fig. 3) is entirely due to contamination; the error this contaminating water vapor level would contribute to the observed frost point of -80°C at the 100-millibar level would be 1/2° C or a concentration error of 8 percent. The assumption, of course, is in the extreme, and the real contamination error may reasonably be assumed to be very much less. At tropospheric levels, the ascent and descent distribution of frost point are in substantial agreement in delineating the major features of the vertical distribution. The descent sounding, however, provides the more detailed and accurate distribution for the following reasons: a slower descent rate provides more data levels, the contaminated flight train wash is not encountered, and saturated layers are approached from the lower frost-point side, minimizing the effect of water or ice contamination acquired in the layer.

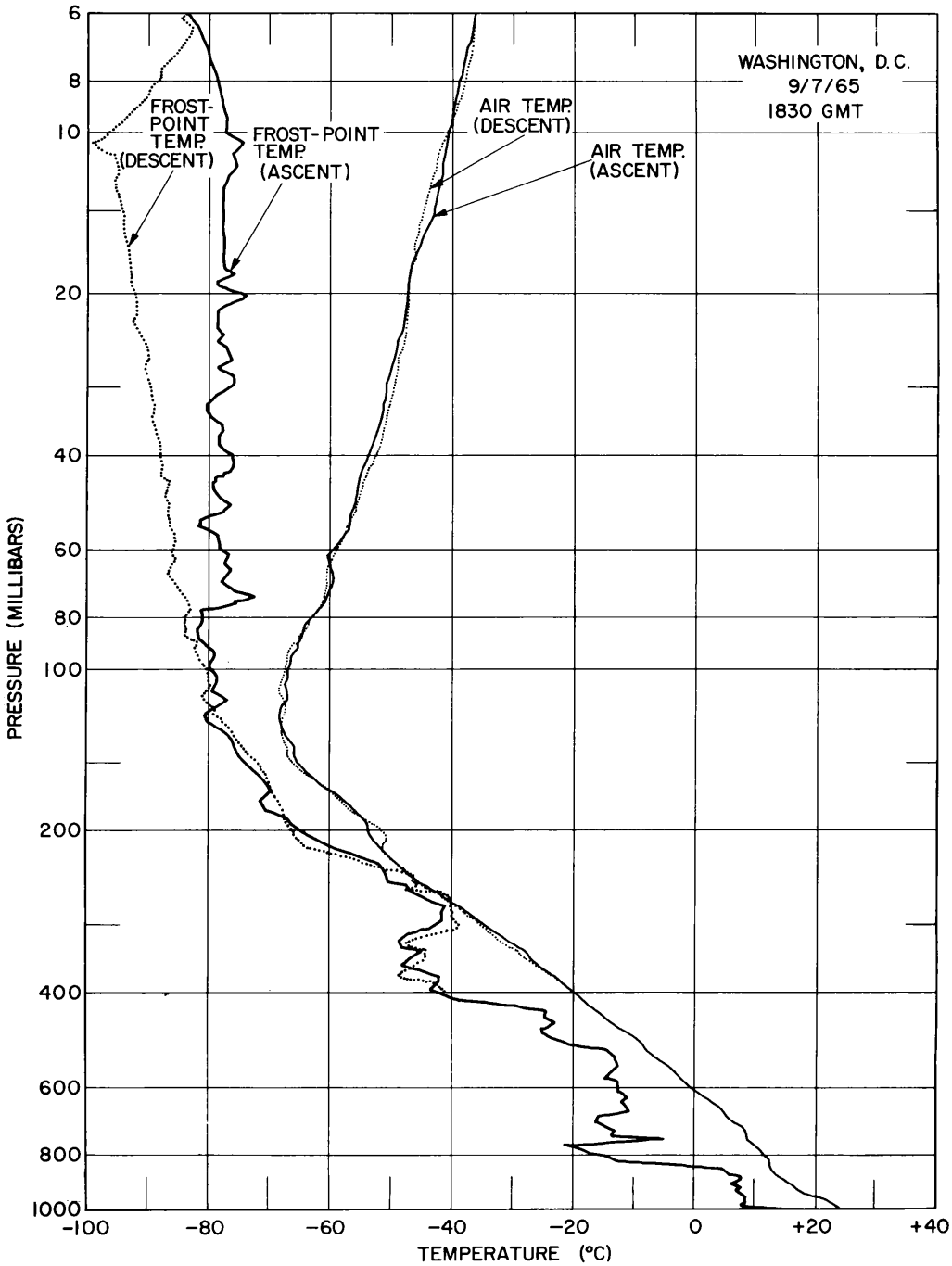

Fig. 3 - Ascent-descent sounding

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 seconds for frost points above -40° C, 15 seconds for frost points of -40° C to -80° C, and 30 seconds for frost points lower than -80° C. Open intervals in the record of less than 2 minutes are closed with straight line segments. Frost-point temperature, ambient temperature, and pressure are then extracted at 1/2-minute 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

These observations were made possible through the support and collaboration of several groups and the participation of many individuals. First, I acknowledge the interest and support of Mr. E. F. Corwin of the Naval Air Systems Command (formerly Bureau of Naval Weapons), who has nurtured the development of the balloon-borne frost-point hygrometer to its present level of refinement; without his sustained interest throughout a long and trying period of development the soundings would not have been made.

The many contributions of Mr. W. W. Werner to the instrument development and his meticulous and exacting nature assured the supply of quality instrumentation to the program.

The successful operation at distant sites is largely attributable to the competence, and the "have instrument—will travel" attitude of Mr. R. E. Daniels.

The design and management of the data processing techniques for the preparation of this report were provided by Mr. D.R. Purdy.

Excellent cooperation was received from the station personnel at the U.S. Naval Station, Trinidad, and Thule Air Force Base.

Participation in the observational program for the International Years of the Quiet Sun was made possible through the joint funding of the Office of Naval Research and the National Science Foundation.

I extend my personal thanks to all who helped make this program a success.

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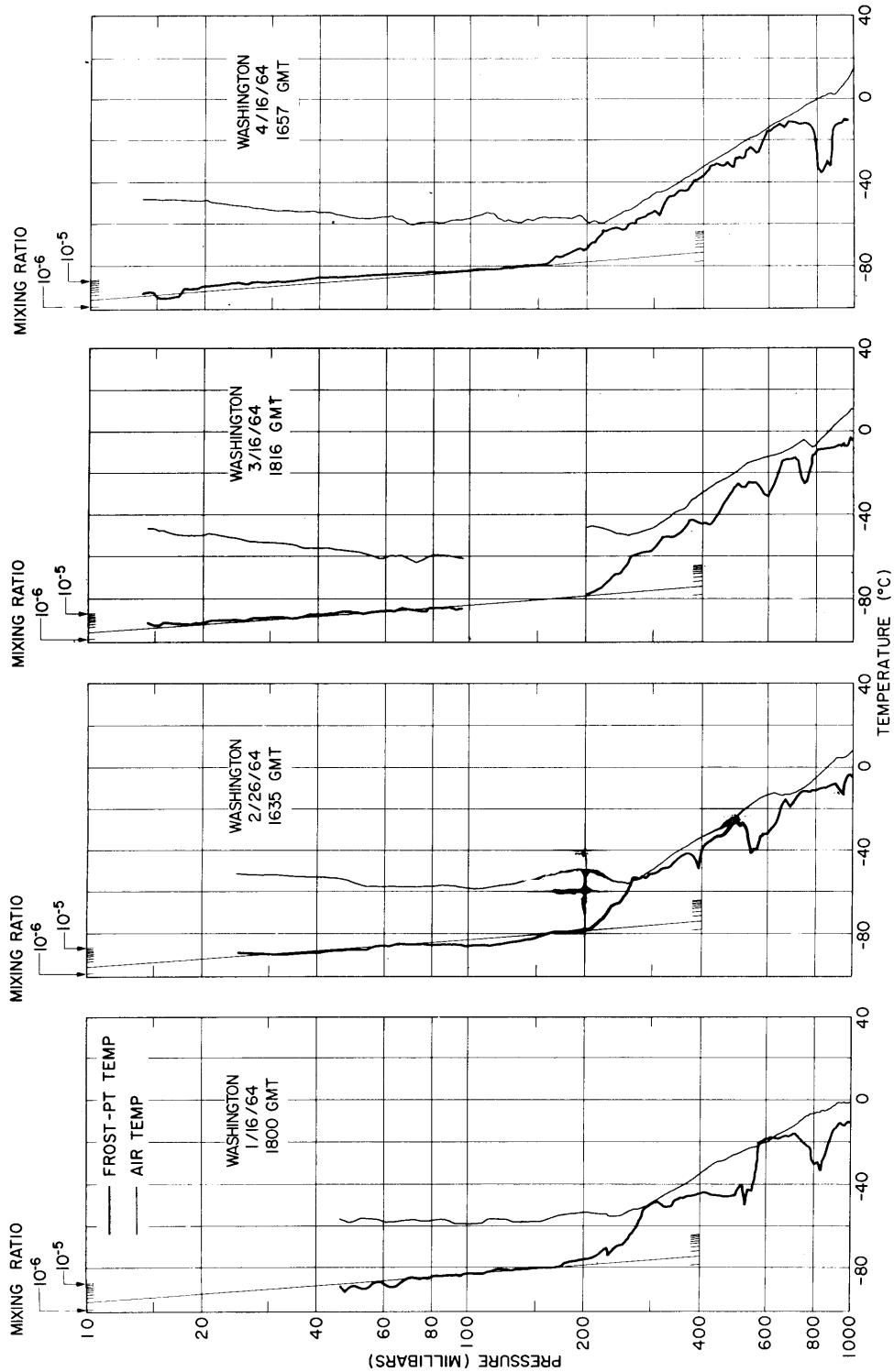
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10^{-5}
FROST-PT TEMP
AIR TEMP
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1/16/64
1800 GMT
WASHINGTON
2/26/64
1635 GMT
WASHINGTON
3/16/64
1816 GMT
WASHINGTON
4/16/64
1657 GMT
PRESSURE (MILLIBARS)
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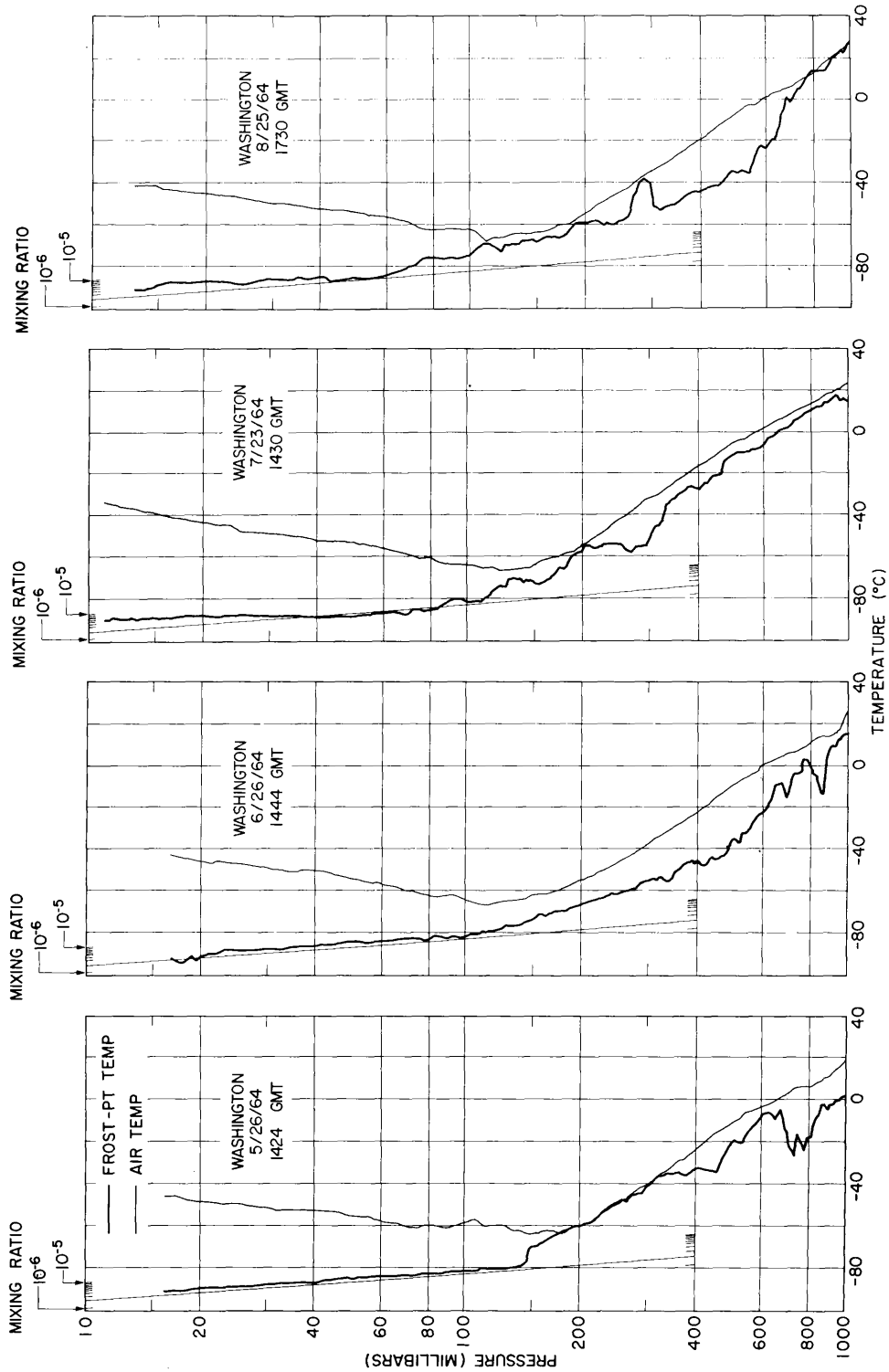
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PRESSURE (MILLIBARS)
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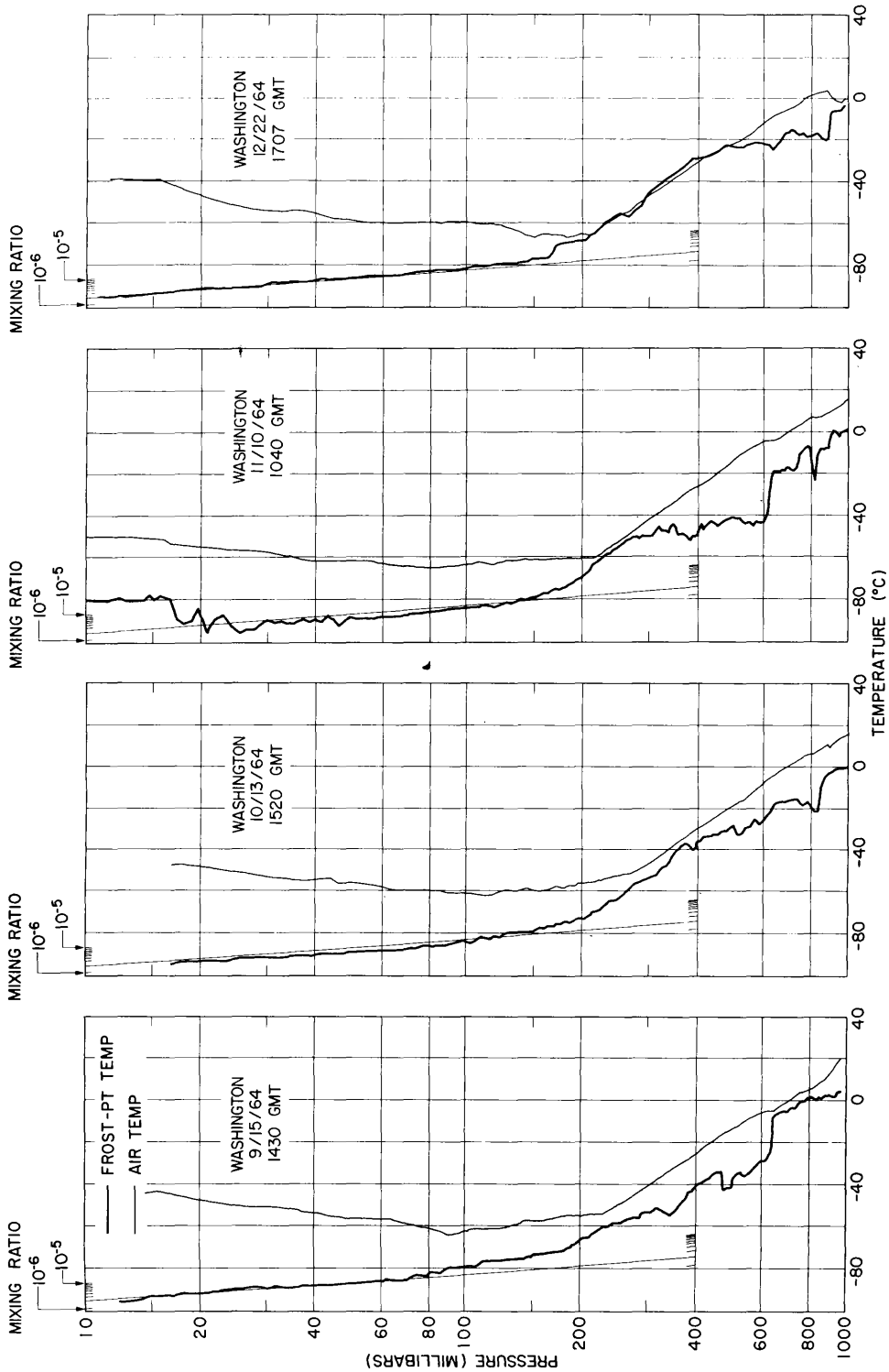
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PRESSURE (MILLIBARS)
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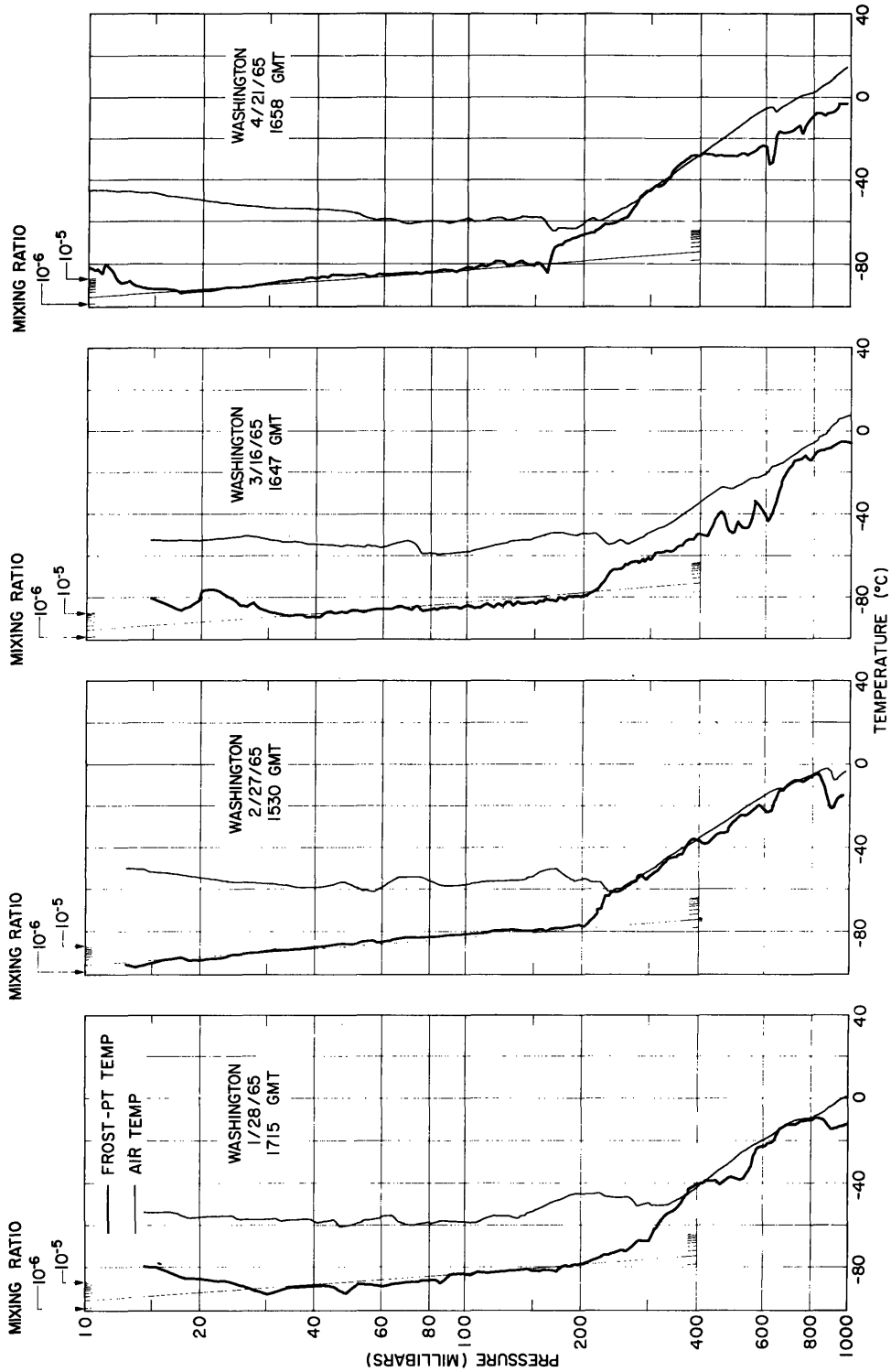
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3/16/65
1647 GMT
WASHINGTON
4/21/65
1658 GMT
PRESSURE (MILLIBARS)
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TEMPERATURE (°C)
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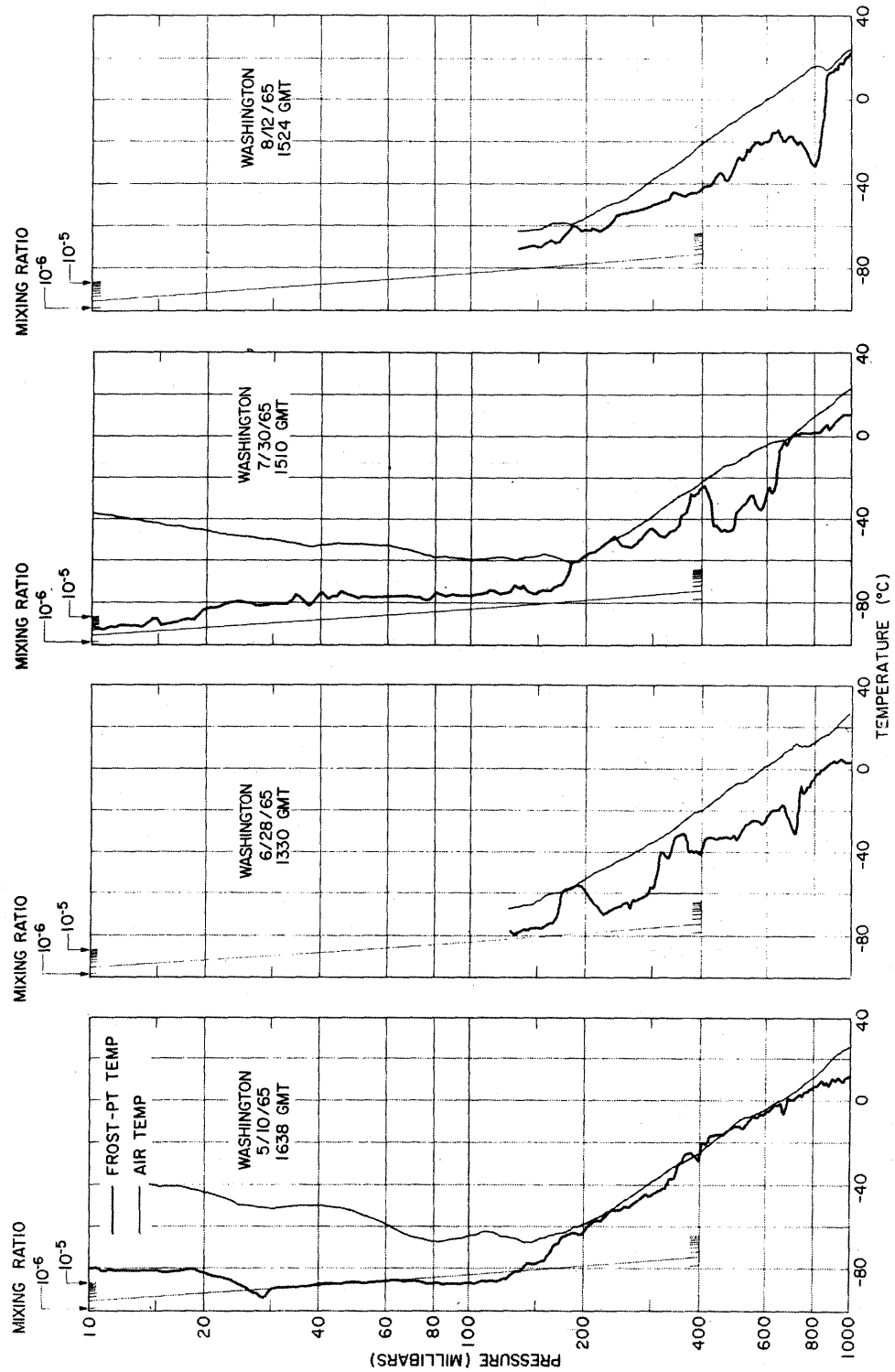
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PRESSURE (MILLIBARS)
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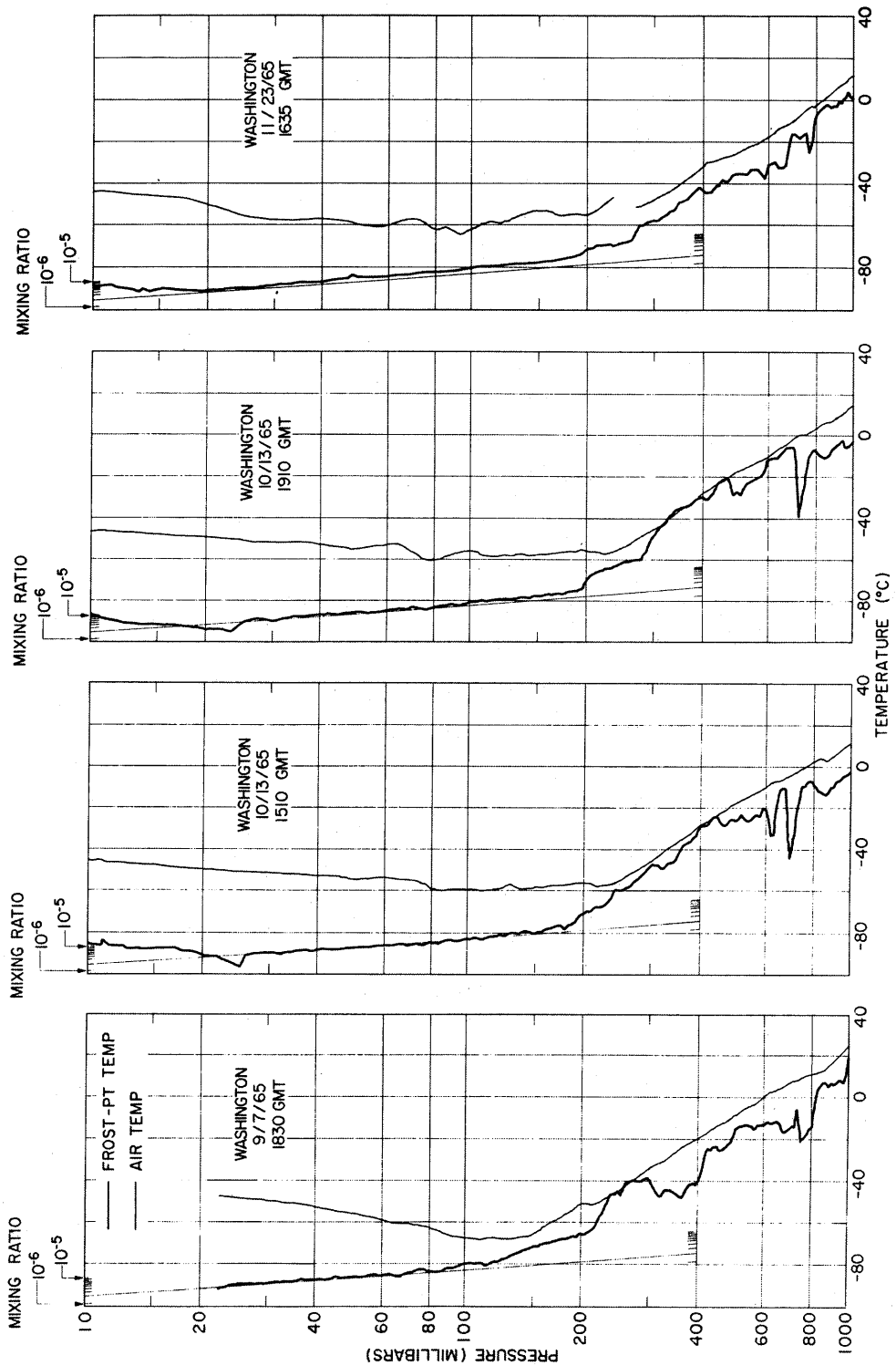
TEMPERATURE (°C)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PRESSURE (MILLIBARS)
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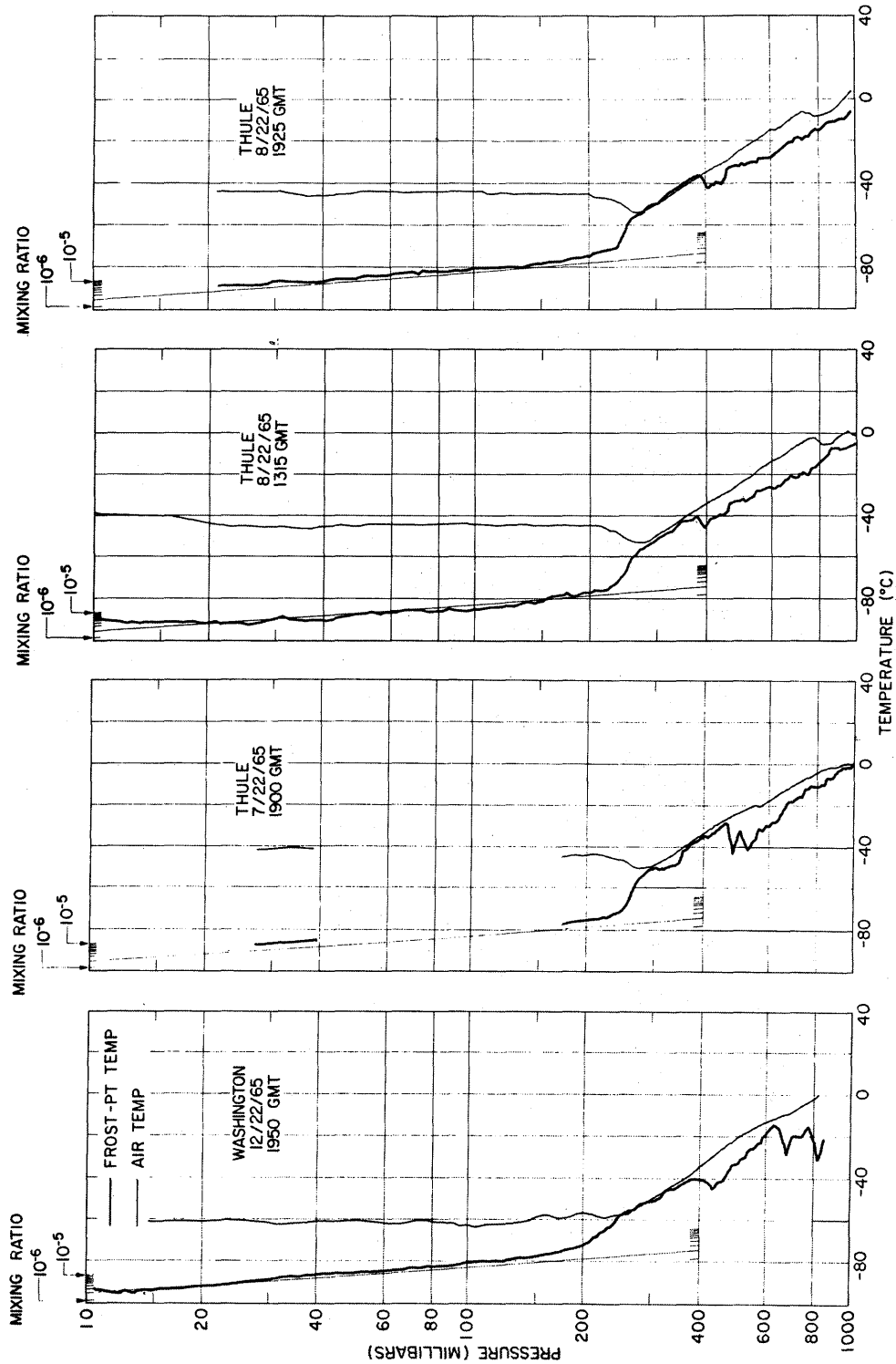
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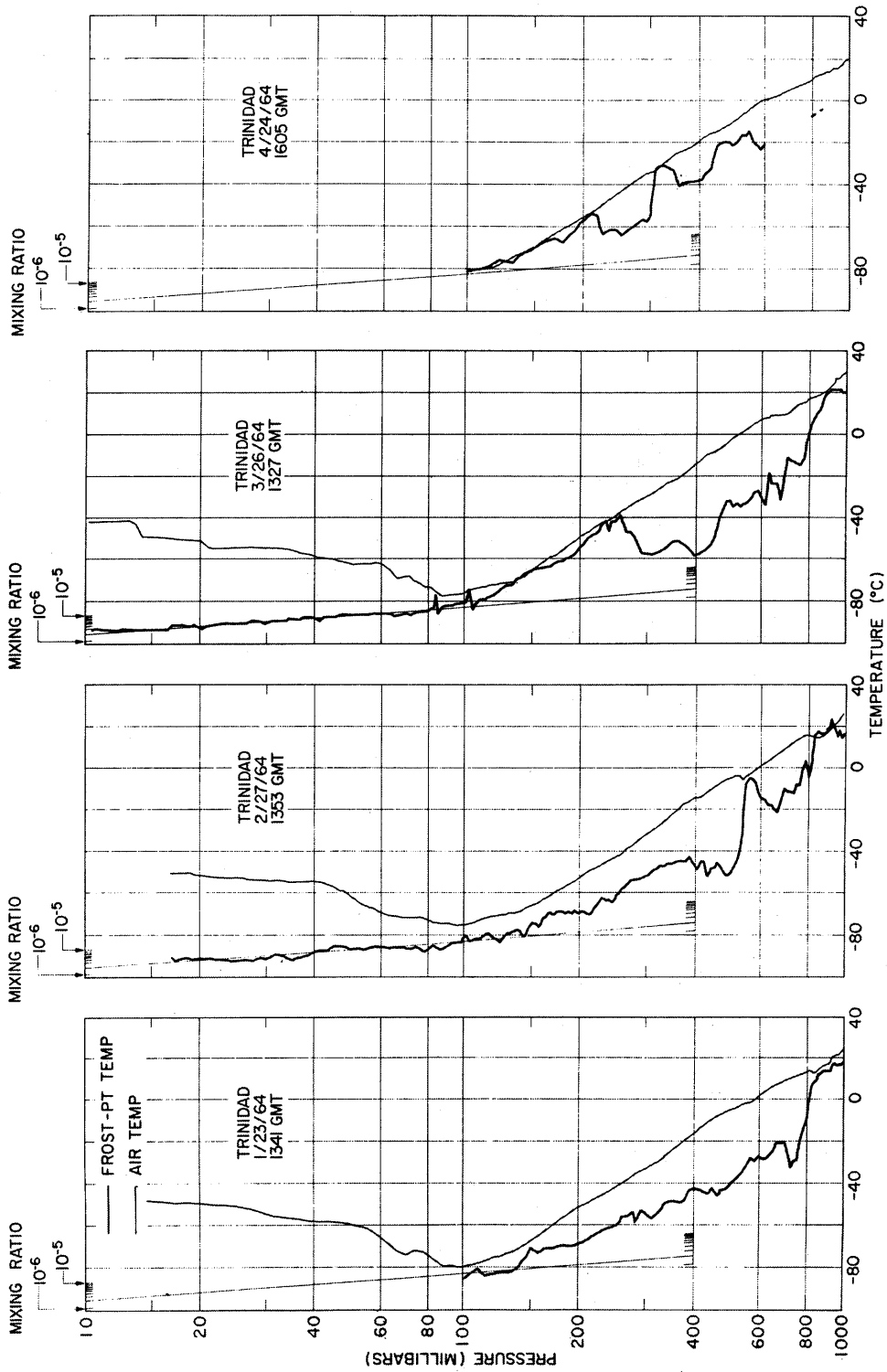
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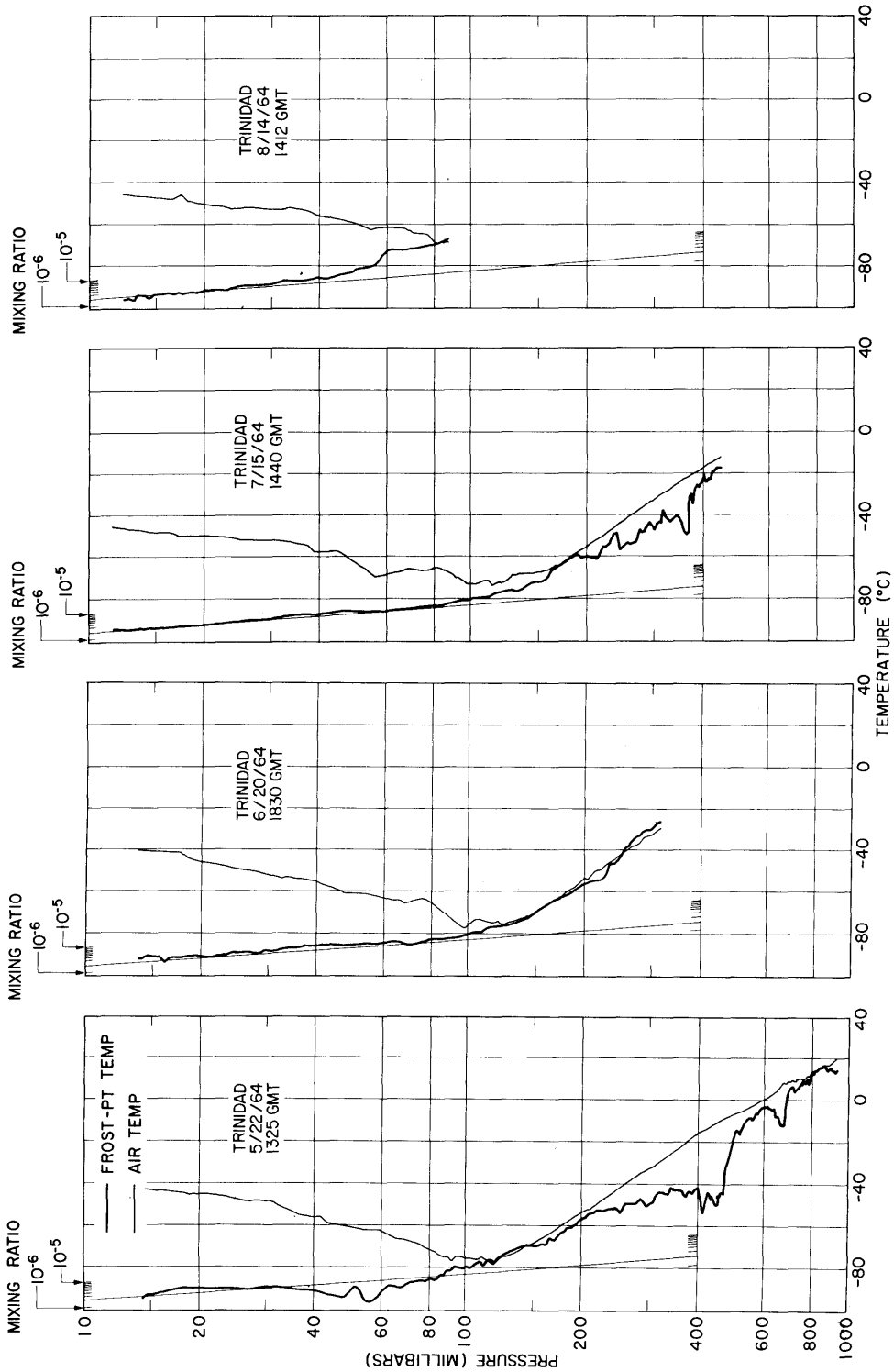
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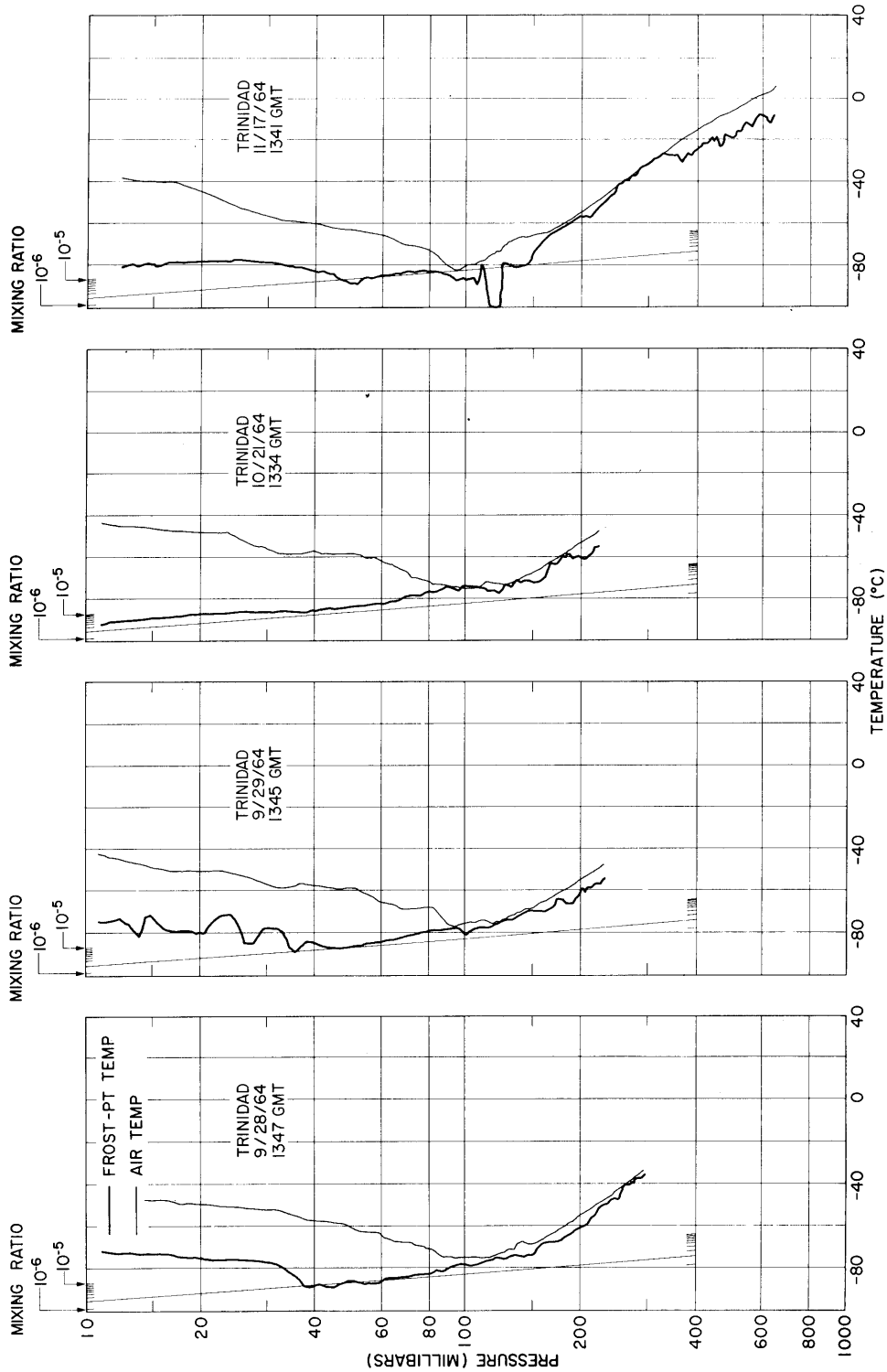
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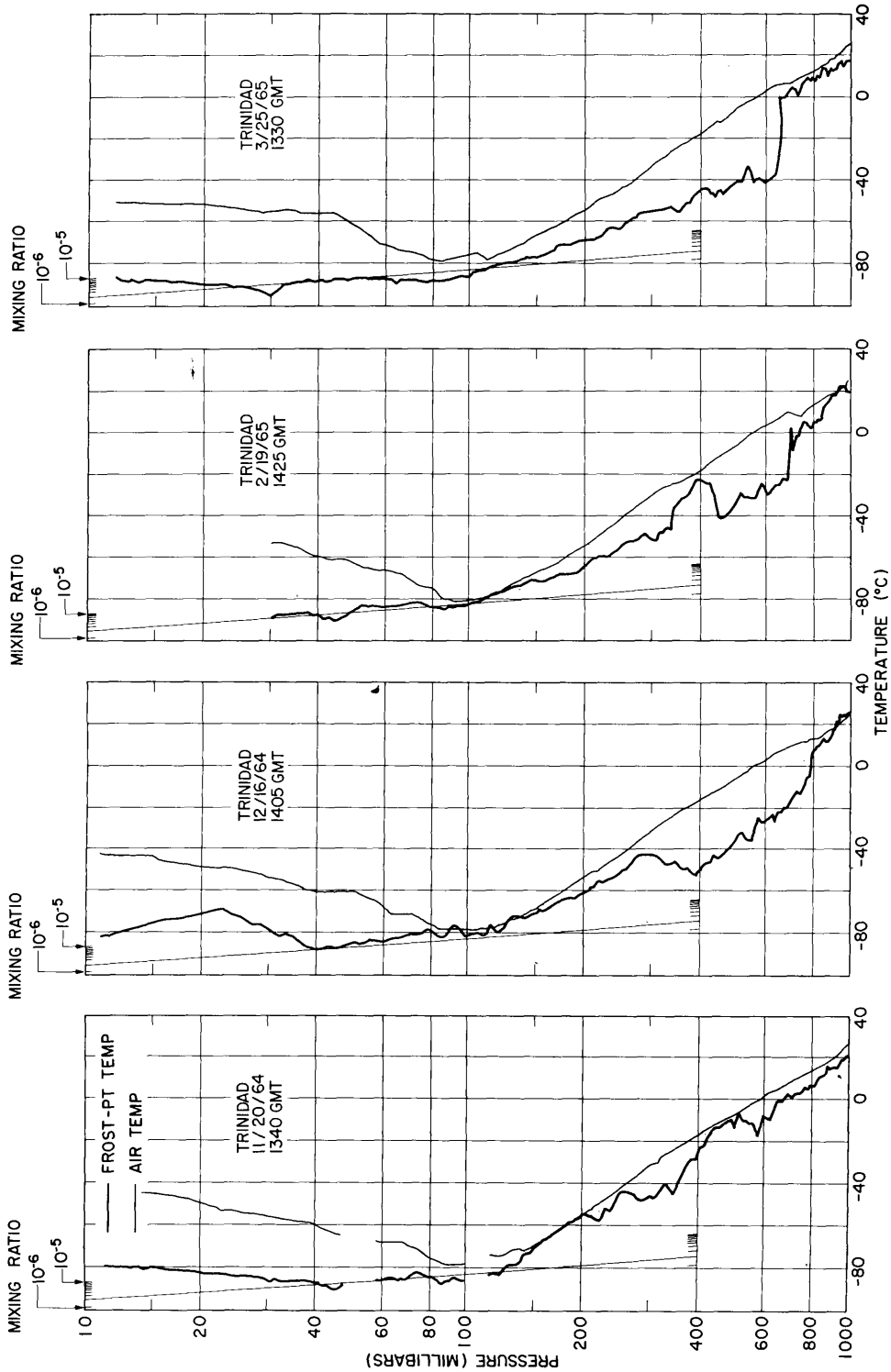
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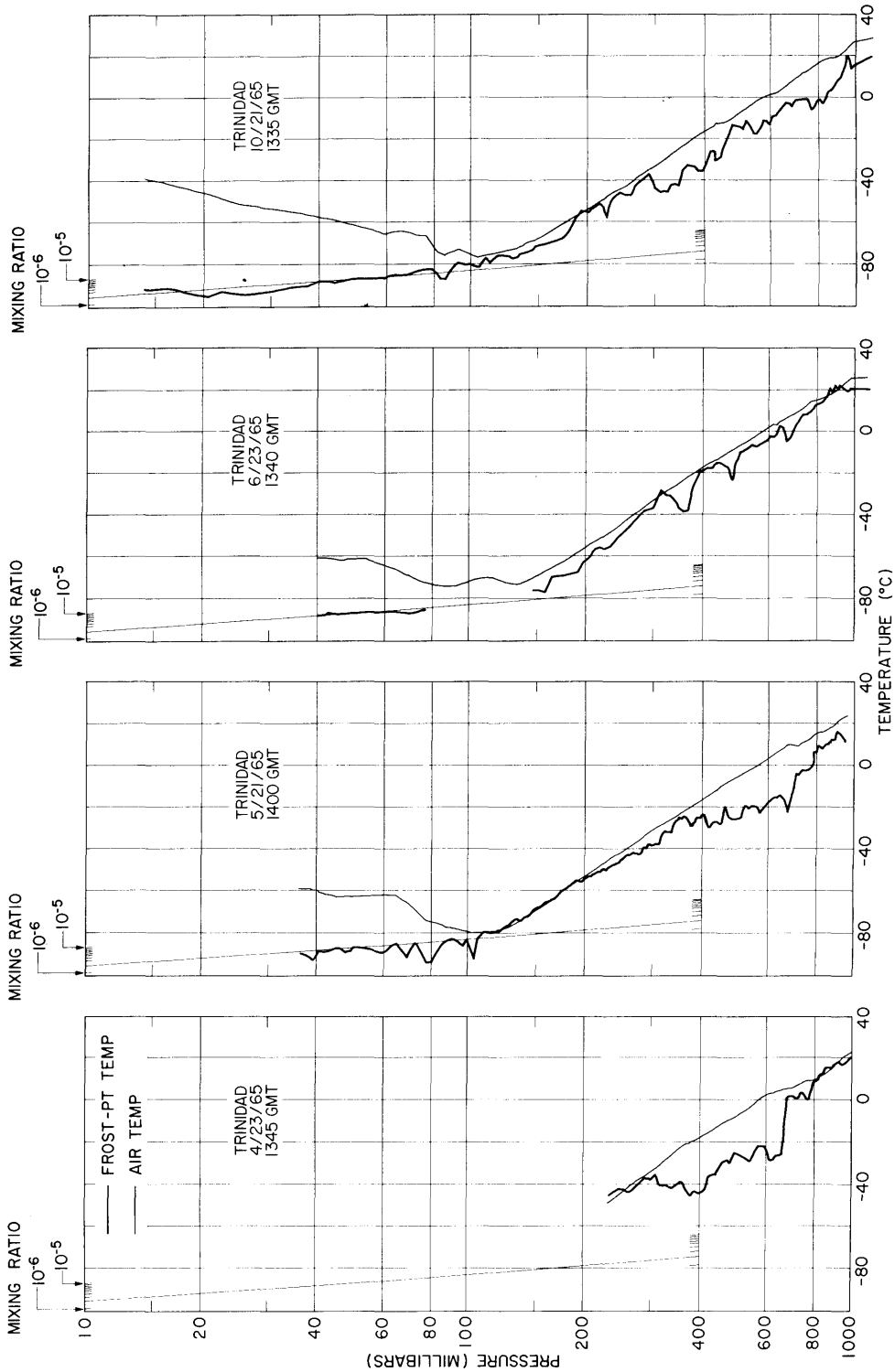
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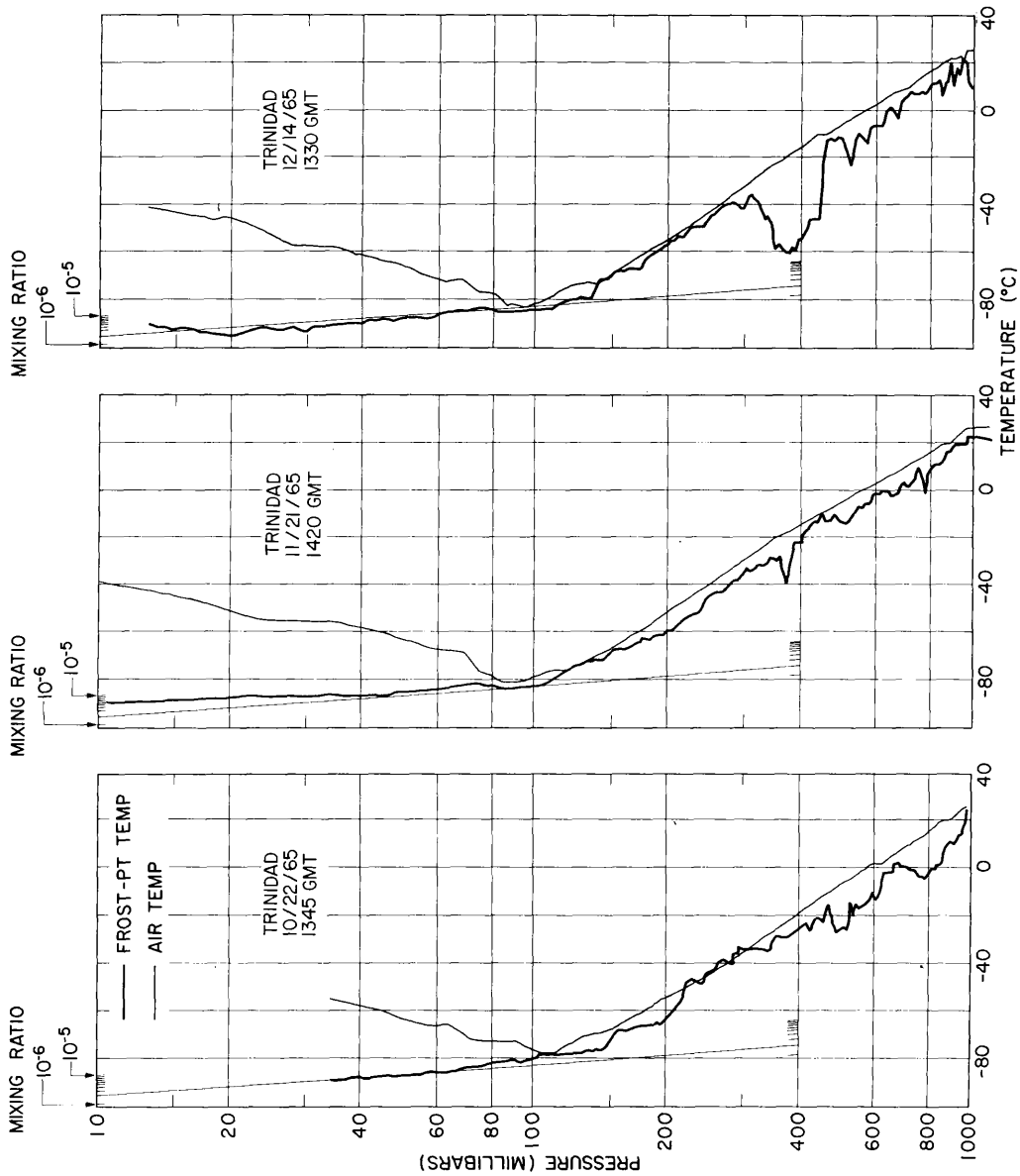
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TEMPERATURE (°C)
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WASHINGTON,D.C. 1/16/64 1800Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1012.40	3.8	-6.7	2.13432	276.0		
1000.20	2.6	-9.5	1.69972	275.7	.02386484	.02386484
984.80	1.5	-9.5	1.72637	275.8	.02691919	.05078402
964.50	-.7	-11.1	1.51868	275.2	.03360932	.08439334
947.00	.4	-10.3	1.66590	277.8	.02843359	.11282693
926.00	-.1	-10.3	1.70378	279.2	.03610358	.14893050
907.70	-.6	-11.9	1.50421	280.2	.02995206	.17888257
891.20	-2.1	-14.1	1.25369	280.1	.02321695	.20209952
878.00	-2.9	-19.1	.79548	280.5	.01380046	.21589997
863.00	-3.7	-22.0	.61136	281.1	.01076657	.22666654
847.00	-3.9	-28.9	.31433	282.3	.00755662	.23422316
830.00	-3.9	-33.1	.20582	283.9	.00451149	.23873465
816.00	-4.9	-28.7	.33268	284.3	.00384644	.24258108
800.00	-5.4	-30.1	.29207	285.4	.00510004	.24768113
783.00	-5.8	-26.9	.41406	286.7	.00612463	.25380576
767.50	-6.6	-22.0	.68752	287.5	.00871143	.26251718
752.00	-7.6	-20.2	.83641	288.1	.01205140	.27456859
735.00	-8.6	-18.6	1.00329	288.9	.01595651	.29052509
719.00	-10.1	-15.8	1.33005	289.0	.01904756	.30957265
703.00	-11.3	-14.8	1.49067	289.6	.02302618	.33259884
688.00	-12.4	-16.5	1.30789	290.1	.02141751	.35401635
673.00	-13.3	-16.1	1.37821	291.0	.02055685	.37457320
657.00	-14.4	-16.5	1.36974	291.7	.02243218	.39700538
642.00	-15.6	-17.4	1.28590	292.4	.02032368	.41732906
624.80	-16.9	-17.1	1.35895	293.1	.02320975	.44053881
606.60	-18.1	-17.1	1.39981	294.2	.02561691	.46615572
592.80	-19.2	-18.0	1.31494	294.9	.01911399	.48526971
581.10	-19.8	-18.6	1.26955	295.8	.01542774	.50069745
570.70	-20.3	-19.7	1.16147	296.8	.01289918	.51359662
559.90	-21.0	-35.0	.24761	297.7	.00776424	.52136086
548.70	-21.6	-42.6	.10831	298.6	.00203377	.52339463
537.20	-22.0	-41.9	.11931	300.0	.00133552	.52473015
526.00	-22.8	-50.2	.04525	300.7	.00094037	.52567051
515.10	-23.4	-39.6	.16189	301.9	.00115196	.52682248
504.00	-24.2	-41.2	.13741	302.7	.00169502	.52851750
493.80	-25.3	-45.5	.08578	303.3	.00116152	.52967902
482.70	-26.4	-45.1	.09196	303.8	.00100659	.53068560
472.00	-27.3	-45.3	.09187	304.7	.00100350	.53168911
461.00	-28.0	-45.5	.09189	305.9	.00103126	.53272037
450.00	-28.4	-45.7	.09197	307.5	.00103188	.53375225
442.00	-28.5	-45.3	.09810	309.0	.00077580	.53452805
430.00	-30.2	-44.7	.10827	309.2	.00126347	.53579152
420.40	-31.4	-43.4	.12801	309.7	.00115725	.53694877
411.00	-32.6	-43.7	.12621	310.2	.00121918	.53816795
401.60	-34.2	-43.9	.12763	310.1	.00121740	.53938535
391.80	-35.5	-44.4	.12317	310.7	.00125401	.54063936
382.30	-37.0	-45.0	.11751	310.8	.00116657	.54180592
373.40	-38.2	-45.3	.11613	311.4	.00106090	.54286683
363.50	-39.9	-46.0	.10997	311.4	.00114200	.54400882
354.80	-40.8	-46.1	.11011	312.4	.00097686	.54498568
346.00	-41.9	-47.3	.09854	313.2	.00093676	.54592244
337.10	-42.8	-50.1	.07135	314.3	.00077140	.54669385
328.90	-43.9	-50.8	.06724	315.0	.00057980	.54727365
320.60	-45.0	-50.0	.07666	315.8	.00060935	.54788300
312.20	-46.5	-47.8	.10212	316.1	.00076619	.54864919
303.90	-47.3	-48.2	.10040	317.4	.00085759	.54950678

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
294.00	-48.5	-49.2	.09204	318.7	.00180291	.55130969
285.40	-50.3	-52.0	.06700	318.9	.00069781	.55200750
276.50	-51.6	-57.4	.03421	319.9	.00045954	.55246703
268.00	-51.6	-62.6	.01760	322.8	.00022465	.55269168
260.60	-52.3	-65.4	.01224	324.3	.00011267	.55280435
252.60	-53.8	-68.2	.00839	324.9	.00008424	.55288859
245.20	-55.0	-69.7	.00694	325.9	.00005789	.55294648
238.90	-55.0	-70.2	.00657	328.3	.00004342	.55298990
232.10	-54.8	-74.0	.00381	331.4	.00003602	.55302592
228.00	-53.8	-69.9	.00724	334.6	.00002311	.55304903
223.70	-53.8	-71.0	.00626	336.4	.00002962	.55307865
219.20	-53.7	-72.5	.00513	338.7	.00002615	.55310480
215.00	-53.5	-73.7	.00435	340.8	.00002030	.55312510
210.60	-53.3	-74.7	.00380	343.2	.00001828	.55314338
206.50	-53.1	-75.4	.00346	345.4	.00001517	.55315855
202.50	-52.9	-75.5	.00345	347.6	.00001408	.55317263
198.60	-52.7	-75.6	.00347	349.9	.00001377	.55318640
194.60	-53.3	-76.0	.00334	351.0	.00001390	.55320030
190.70	-53.3	-76.4	.00318	353.0	.00001298	.55321328
186.90	-53.5	-76.8	.00306	354.8	.00001208	.55322537
183.00	-53.8	-77.0	.00301	356.3	.00001207	.55323744
179.30	-53.8	-77.5	.00286	358.4	.00001107	.55324851
175.70	-54.0	-78.3	.00254	360.1	.00000991	.55325842
172.00	-54.3	-78.9	.00238	362.0	.00000928	.55326770
168.30	-54.6	-79.2	.00231	363.6	.00000884	.55327654
164.80	-55.5	-79.3	.00232	364.4	.00000826	.55328479
161.00	-56.1	-79.4	.00235	365.8	.00000905	.55329384
157.00	-56.9	-79.5	.00235	367.0	.00000957	.55330341
153.40	-57.3	-79.4	.00243	368.7	.00000876	.55331217
150.00	-58.0	-79.5	.00245	370.0	.00000846	.55332063
146.20	-57.8	-79.8	.00239	373.1	.00000939	.55333002
143.00	-57.6	-79.5	.00257	375.8	.00000809	.55333811
139.80	-57.6	-79.8	.00250	378.3	.00000827	.55334638
136.00	-57.6	-79.6	.00267	381.2	.00001001	.55335639
133.30	-57.6	-81.2	.00210	383.4	.00000657	.55336297
130.80	-57.3	-81.0	.00220	385.9	.00000548	.55336845
128.00	-57.1	-80.7	.00238	388.7	.00000654	.55337499
125.20	-56.3	-80.6	.00247	392.7	.00000691	.55338190
122.60	-56.3	-80.3	.00263	395.0	.00000675	.55338866
119.80	-56.5	-80.3	.00269	397.3	.00000758	.55339624
117.10	-56.5	-80.7	.00257	399.9	.00000723	.55340347
114.50	-56.1	-81.3	.00241	403.2	.00000660	.55341007
112.00	-56.1	-81.7	.00230	405.8	.00000601	.55341607
109.40	-57.6	-81.6	.00239	405.7	.00000621	.55342229
106.90	-58.2	-81.9	.00231	407.1	.00000598	.55342826
103.90	-58.2	-81.9	.00241	410.5	.00000721	.55343547
101.00	-58.2	-82.4	.00227	413.8	.00000691	.55344239
98.20	-58.4	-82.6	.00226	416.7	.00000647	.55344886
95.40	-58.4	-83.5	.00197	420.2	.00000605	.55345491
92.60	-58.4	-83.5	.00206	423.8	.00000575	.55346066
89.80	-57.6	-83.5	.00213	429.2	.00000598	.55346663
87.00	-56.5	-83.5	.00220	435.3	.00000617	.55347280
84.20	-56.3	-83.9	.00210	439.8	.00000612	.55347893
81.00	-56.5	-83.5	.00236	444.3	.00000727	.55348620
78.00	-57.1	-84.3	.00212	447.8	.00000685	.55349305

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
74.20	-57.1	-84.4	.00220	454.2	.00001580	.55350885
71.10	-56.7	-84.6	.00222	460.7	.00000697	.55351582
68.70	-56.5	-85.2	.00204	465.7	.00000522	.55352104
66.10	-57.1	-86.3	.00175	469.5	.00000504	.55352607
63.70	-57.6	-88.8	.00117	473.5	.00000358	.55352965
61.20	-57.6	-88.7	.00125	478.9	.00000308	.55353273
59.00	-57.3	-86.5	.00190	484.5	.00000352	.55353625
57.00	-56.3	-86.6	.00193	491.7	.00000389	.55354014
55.00	-55.9	-88.5	.00145	497.7	.00000344	.55354358
53.10	-56.1	-89.8	.00117	502.2	.00000252	.55354610
51.50	-56.5	-89.3	.00134	505.6	.00000204	.55354814
50.00	-57.3	-88.1	.00169	507.9	.00000231	.55355045
48.50	-57.8	-88.7	.00157	511.3	.00000249	.55355294
47.20	-57.1	-90.9	.00107	516.9	.00000174	.55355468
45.90	-56.3	-88.3	.00177	523.0	.00000188	.55355656

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1004.00	9.1	-4.6	2.58100	281.9		
978.00	7.1	-2.7	3.11802	282.1	.07559885	.07559885
960.00	5.6	-4.6	2.69981	282.1	.05342875	.12902761
941.00	4.9	-12.7	1.35106	282.9	.03926842	.16829602
922.00	4.9	-9.2	1.88603	284.6	.03137985	.19967587
904.00	4.9	-7.2	2.28679	286.2	.03832166	.23799753
883.00	3.3	-7.6	2.25801	286.5	.04869403	.28669156
867.00	1.5	-8.0	2.22264	286.1	.03657652	.32326809
847.00	-.0	-9.2	2.05359	286.4	.04363476	.36690284
828.00	-1.7	-9.2	2.10087	286.5	.04027268	.40717553
810.00	-3.4	-9.9	2.01091	286.5	.03776109	.44493662
792.00	-5.0	-10.7	1.92962	286.6	.03618839	.48112501
773.00	-6.7	-11.0	1.91476	286.8	.03726684	.51839185
757.00	-8.2	-10.7	2.01913	286.9	.03211325	.55050510
737.00	-9.5	-11.0	2.00859	287.7	.04109903	.59160413
720.00	-10.5	-12.7	1.76694	288.5	.03274681	.62435094
712.00	-11.1	-13.9	1.59321	288.7	.01371484	.63806577
700.00	-11.9	-16.3	1.30586	289.3	.01774934	.65581511
686.00	-12.1	-18.7	1.06536	290.7	.01693721	.67275232
675.00	-12.4	-17.6	1.19361	291.8	.01267783	.68543015
664.00	-12.5	-14.6	1.61478	293.0	.01576129	.70119144
654.00	-12.9	-16.3	1.39792	293.8	.01537082	.71656226
639.00	-12.4	-21.5	.87216	296.4	.01737294	.73393519
629.00	-12.0	-25.7	.58241	298.1	.00742124	.74135643
616.00	-11.9	-28.5	.44730	300.1	.00682971	.74818614
605.00	-12.4	-30.4	.37381	301.0	.00460826	.75279440
592.00	-13.3	-31.9	.32679	301.9	.00464679	.75744119
582.00	-14.0	-31.9	.33241	302.5	.00336321	.76080440
570.00	-14.7	-33.2	.29651	303.4	.00385050	.76465490
560.30	-15.6	-39.3	.15418	303.9	.00223044	.76688534
550.00	-16.5	-39.4	.15518	304.5	.00162569	.76851103
540.80	-17.2	-41.3	.12704	305.1	.00132471	.76983574
531.80	-18.3	-36.2	.23017	305.2	.00164025	.77147599
522.00	-19.4	-28.0	.55586	305.5	.00393012	.77540611
512.00	-20.7	-26.1	.68923	305.7	.00635245	.78175856
503.80	-21.7	-27.9	.58580	305.9	.00533426	.78709282
494.00	-23.0	-25.5	.75538	306.0	.00670587	.79379869
485.60	-24.0	-26.1	.72674	306.2	.00635192	.80015060
476.00	-25.0	-27.5	.64242	306.8	.00670607	.80685668
467.10	-25.9	-30.4	.48425	307.3	.00511602	.81197269
456.90	-27.3	-32.1	.41697	307.6	.00469001	.81666270
448.50	-28.3	-32.5	.40593	307.9	.00352669	.82018939
439.50	-29.3	-32.9	.39633	308.4	.00368381	.82387319
430.00	-30.1	-34.0	.36045	309.4	.00366803	.82754122
420.70	-31.5	-35.3	.32010	309.5	.00322911	.83077033
412.00	-32.5	-36.3	.29311	310.0	.00272185	.83349217
402.00	-33.7	-39.6	.20719	310.6	.00255252	.83604470
393.60	-33.9	-49.6	.06550	312.3	.00116865	.83721335
384.10	-35.1	-42.7	.15215	312.9	.00105490	.83826825
376.40	-36.4	-41.4	.18038	313.0	.00130635	.83957461
367.00	-37.8	-41.5	.18290	313.4	.00174224	.84131685
360.50	-38.9	-41.8	.17977	313.5	.00120270	.84251955
351.00	-40.3	-43.6	.15038	314.0	.00160021	.84411976
343.00	-41.5	-45.6	.12099	314.5	.00110762	.84522738
334.30	-42.8	-48.0	.09353	315.0	.00095220	.84617957
326.40	-44.0	-48.8	.08651	315.5	.00072566	.84690523

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
319.00	-45.8	-49.1	.08586	315.2	.00140035	.84830558
310.00	-47.2	-49.9	.07991	315.8	.00076118	.84906676
302.00	-48.7	-51.3	.06934	316.0	.00060917	.84967594
294.30	-50.0	-51.7	.06709	316.5	.00053594	.85021187
286.70	-51.6	-53.3	.05675	316.6	.00048018	.85069205
279.80	-53.1	-53.1	.05927	316.7	.00040844	.85110049
273.00	-54.4	-53.9	.05520	317.0	.00039713	.85149762
265.00	-55.0	-58.4	.03142	318.9	.00035354	.85185117
257.00	-55.9	-60.3	.02520	320.3	.00023112	.85208228
250.50	-55.7	-62.9	.01811	322.9	.00014362	.85222590
244.00	-55.3	-65.6	.01266	325.9	.00010203	.85232793
237.50	-55.1	-66.4	.01156	328.8	.00008030	.85240823
230.70	-54.0	-68.5	.00880	333.2	.00007060	.85247883
224.00	-52.7	-71.8	.00555	338.0	.00004904	.85252787
217.20	-51.4	-74.7	.00365	343.0	.00003190	.85255978
211.40	-51.4	-76.4	.00288	345.7	.00001931	.85257909
205.00	-50.7	-77.9	.00235	349.8	.00001708	.85259616
198.50	-50.4	-78.2	.00229	353.6	.00001538	.85261154
192.00	-50.6	-78.5	.00228	356.7	.00001515	.85262670
186.80	-51.4	-78.9	.00218	358.1	.00001182	.85263851
181.00	-51.8	-79.6	.00201	360.7	.00001238	.85265090
175.00	-52.2	-80.1	.00190	363.6	.00001195	.85266285
169.00	-52.9	-80.1	.00200	366.1	.00001192	.85267477
163.20	-53.1	-80.2	.00201	369.4	.00001183	.85268660
158.00	-54.4	-80.8	.00189	370.7	.00001034	.85269694
151.30	-54.2	-81.4	.00177	375.6	.00001252	.85270946
145.10	-54.0	-82.8	.00147	380.4	.00001025	.85271971
141.00	-54.0	-83.5	.00134	383.6	.00000587	.85272558
135.90	-55.1	-83.7	.00134	385.6	.00000697	.85273255
130.20	-55.9	-84.4	.00124	388.9	.00000750	.85274005
125.00	-56.3	-84.9	.00120	392.8	.00000644	.85274649
120.00	-56.7	-85.3	.00115	396.6	.00000599	.85275248
115.00	-57.6	-85.9	.00109	400.0	.00000572	.85275820
110.00	-58.0	-85.9	.00114	404.3	.00000569	.85276389
105.00	-58.6	-85.8	.00122	408.5	.00000602	.85276991
100.90	-58.8	-86.1	.00120	412.8	.00000505	.85277496
96.20	-58.0	-86.2	.00123	420.1	.00000581	.85278077
92.10	-57.3	-85.9	.00136	426.6	.00000542	.85278620
87.80	-57.1	-85.8	.00146	432.9	.00000618	.85279238
84.20	-56.7	-86.0	.00146	438.9	.00000536	.85279775
80.00	-57.1	-85.8	.00160	444.5	.00000656	.85280430
76.00	-57.6	-85.8	.00169	450.2	.00000671	.85281101
72.00	-57.6	-85.8	.00178	457.2	.00000706	.85281807
68.30	-57.3	-85.8	.00188	464.6	.00000690	.85282497
65.00	-57.6	-86.3	.00178	470.8	.00000615	.85283113
60.40	-57.6	-86.5	.00188	480.8	.00000860	.85283972
56.90	-57.6	-86.8	.00188	489.0	.00000671	.85284643
54.00	-57.8	-87.6	.00170	495.9	.00000529	.85285172
50.50	-56.5	-88.3	.00163	508.4	.00000595	.85285766
47.30	-54.6	-88.7	.00162	522.7	.00000530	.85286297
44.00	-53.6	-88.9	.00167	535.9	.00000553	.85286850
41.30	-53.4	-89.3	.00165	546.2	.00000456	.85287306
38.50	-53.2	-89.7	.00165	557.7	.00000471	.85287777
36.00	-53.1	-90.1	.00163	569.0	.00000417	.85288194
32.40	-52.7	-90.7	.00164	587.3	.00000601	.85288794

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
30.70	-52.2	-90.8	.00168	597.9	.00000897	.85289691
28.70	-52.7	-91.0	.00175	608.0	.00000350	.85290042
26.20	-52.2	-91.4	.00177	625.6	.00000449	.85290490
24.30	-51.8	-91.4	.00191	640.3	.00000356	.85290846

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1016.50	12.2	-5.8	2.29266	284.0		
1009.20	11.7	-5.8	2.30930	284.1	.01713990	.01713990
1002.80	10.9	-4.7	2.56225	283.8	.01590706	.03304696
996.20	10.4	-3.0	2.99651	283.9	.01871820	.05176516
989.00	9.6	-3.5	2.87044	283.7	.02155197	.07331713
981.70	9.0	-6.4	2.26884	283.7	.01914108	.09245820
973.80	8.6	-6.9	2.18343	283.9	.01794526	.11040346
965.00	7.8	-6.9	2.20341	283.9	.01969591	.13009937
958.50	7.1	-6.4	2.32396	283.7	.01501416	.14511353
949.00	6.3	-6.4	2.34731	283.7	.02264124	.16775477
940.40	5.6	-6.9	2.26126	283.7	.02022117	.18797594
931.00	4.6	-6.4	2.39287	283.5	.02232070	.21029665
918.30	3.7	-6.4	2.42609	283.7	.03122473	.24152137
903.00	2.6	-6.9	2.35527	283.9	.03732368	.27884506
882.80	1.3	-7.9	2.20630	284.4	.04701188	.32585694
861.50	-.7	-7.9	2.26105	284.3	.04854803	.37440497
840.00	-2.6	-8.4	2.21938	284.3	.04914737	.42355233
817.00	-4.6	-8.4	2.28209	284.5	.05282317	.47637551
800.00	-6.4	-10.3	1.97774	284.3	.03694734	.51332285
785.00	-7.1	-10.3	2.01565	285.1	.03056155	.54388440
772.00	-5.9	-19.0	.91474	287.7	.01943621	.56332061
761.00	-4.9	-23.9	.57836	290.0	.00837961	.57170022
749.00	-3.8	-24.8	.53430	292.5	.00681217	.57851239
736.00	-4.6	-21.8	.73032	293.1	.00838777	.58690016
722.60	-5.5	-13.6	1.62318	293.7	.01609020	.60299036
710.00	-6.3	-12.4	1.84098	294.3	.02226947	.62525983
696.50	-7.3	-12.8	1.80814	294.8	.02513413	.65039396
682.80	-8.4	-13.2	1.78103	295.3	.02508746	.67548142
668.50	-9.1	-13.6	1.75491	296.2	.02579778	.70127921
654.00	-10.1	-14.0	1.73374	296.9	.02580874	.72708794
636.00	-10.7	-21.0	.91401	298.7	.02431591	.75140385
620.00	-11.3	-26.6	.53961	300.2	.01186618	.76327004
605.00	-11.8	-31.1	.34816	301.7	.00679408	.77006412
590.00	-12.5	-30.2	.39241	303.0	.00566754	.77573165
576.00	-13.0	-26.4	.59342	304.5	.00704160	.78277326
562.20	-13.8	-24.4	.74682	305.8	.00943634	.79220960
552.00	-14.3	-24.4	.76063	306.8	.00784484	.80005443
537.00	-14.9	-24.1	.80019	308.4	.01194502	.81199946
526.00	-15.8	-26.6	.63614	309.2	.00806099	.82006045
515.00	-17.0	-26.6	.64974	309.6	.00721662	.82727706
503.00	-18.6	-24.8	.79594	309.7	.00885107	.83612813
490.30	-19.9	-26.8	.66764	310.5	.00948341	.84561154
478.00	-21.3	-30.0	.49365	311.1	.00728768	.85289922
465.00	-22.6	-33.5	.35257	311.8	.00561263	.85851185
451.00	-23.9	-37.6	.23205	313.0	.00417581	.86268766
438.00	-24.9	-41.9	.14605	314.3	.00250782	.86519548
426.00	-26.3	-44.9	.10660	315.1	.00154686	.86674234
415.00	-27.8	-44.1	.11932	315.5	.00126791	.86801025
403.20	-29.2	-44.4	.11976	316.2	.00143933	.86944959
392.00	-31.3	-43.1	.14331	316.1	.00150323	.87095281
381.00	-32.6	-42.3	.16140	316.9	.00171010	.87266292
373.40	-34.9	-42.8	.15434	315.7	.00122431	.87388723
361.00	-36.5	-46.1	.10893	316.6	.00166558	.87555280
350.00	-38.2	-49.7	.07223	317.1	.00101668	.87656948
339.00	-39.8	-50.9	.06482	317.9	.00076915	.87733863
328.20	-41.7	-50.4	.07064	318.2	.00074638	.87808502

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
318.10	-43.4	-50.6	.07134	318.8	.00145189	.87953691
308.70	-44.9	-54.3	.04613	319.3	.00056335	.88010027
299.00	-46.2	-57.1	.03306	320.5	.00039190	.88049217
289.50	-47.0	-57.8	.03100	322.3	.00031047	.88080263
279.50	-48.0	-58.1	.03088	324.1	.00031571	.88111834
270.40	-49.0	-59.1	.02818	325.7	.00027423	.88139257
262.00	-49.7	-60.7	.02338	327.6	.00022097	.88161354
253.90	-49.3	-65.7	.01191	331.1	.00014584	.88175938
245.00	-49.0	-68.3	.00850	335.0	.00009267	.88185205
237.80	-48.2	-68.7	.00826	339.2	.00006157	.88191362
230.60	-47.3	-71.3	.00585	343.4	.00005183	.88196544
223.30	-46.3	-73.6	.00420	348.1	.00003742	.88200286
216.50	-45.9	-75.7	.00312	351.9	.00002541	.88202827
209.20	-45.5	-77.0	.00263	355.9	.00002141	.88204968
201.90	-46.3	-78.2	.00225	358.3	.00001818	.88206786
95.30	-60.3	-84.4	.00169	416.6	.00025128	.88231914
93.00	-60.1	-85.2	.00153	420.0	.00000377	.88232291
90.50	-59.9	-85.1	.00160	423.7	.00000398	.88232689
88.10	-59.7	-84.0	.00198	427.4	.00000437	.88233125
85.20	-59.4	-84.2	.00199	432.0	.00000586	.88233711
83.30	-59.2	-84.7	.00185	435.2	.00000371	.88234082
81.00	-59.0	-84.5	.00196	439.2	.00000447	.88234529
78.70	-59.7	-84.9	.00190	441.4	.00000452	.88234980
76.50	-60.8	-86.0	.00160	442.6	.00000392	.88235372
74.30	-61.5	-85.8	.00171	444.9	.00000371	.88235743
72.20	-62.2	-85.4	.00191	447.0	.00000386	.88236129
70.00	-61.3	-85.1	.00206	453.0	.00000446	.88236575
68.00	-60.6	-85.0	.00216	458.3	.00000431	.88237005
66.20	-59.4	-84.6	.00236	464.3	.00000414	.88237420
64.40	-59.2	-85.2	.00221	468.4	.00000419	.88237838
62.60	-59.4	-85.9	.00199	471.7	.00000384	.88238223
60.80	-59.7	-85.4	.00226	475.2	.00000390	.88238613
59.20	-60.3	-85.8	.00214	477.3	.00000359	.88238972
57.50	-60.3	-86.2	.00206	481.3	.00000364	.88239336
55.70	-59.2	-86.4	.00206	488.2	.00000377	.88239713
54.00	-58.8	-86.5	.00208	493.6	.00000359	.88240072
52.30	-58.1	-87.0	.00197	499.6	.00000352	.88240424
50.70	-57.3	-86.3	.00230	506.1	.00000347	.88240771
49.10	-57.1	-86.6	.00225	511.2	.00000371	.88241142
47.50	-56.9	-86.2	.00249	516.6	.00000387	.88241529
45.80	-56.5	-86.3	.00254	523.0	.00000437	.88241966
44.20	-56.2	-87.0	.00233	528.8	.00000398	.88242364
42.70	-55.6	-87.0	.00242	535.6	.00000362	.88242726
41.10	-55.6	-87.6	.00225	541.4	.00000380	.88243106
39.50	-55.4	-87.6	.00234	548.1	.00000374	.88243480
38.00	-55.4	-87.5	.00248	554.2	.00000368	.88243848
36.50	-55.2	-88.3	.00223	561.1	.00000699	.88244547
35.00	-54.3	-89.3	.00195	570.5	.00000319	.88244866
33.50	-53.5	-89.0	.00216	579.6	.00000313	.88245179
32.00	-53.1	-88.8	.00235	588.3	.00000344	.88245523
30.60	-52.9	-88.9	.00241	596.4	.00000340	.88245863
29.20	-52.7	-88.9	.00253	604.9	.00000352	.88246214
28.00	-52.6	-88.9	.00263	612.7	.00000316	.88246530
26.70	-52.4	-89.3	.00255	621.6	.00000343	.88246873
25.50	-51.5	-90.3	.00222	632.5	.00000291	.88247164

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
24.20	-50.7	-90.0	.00249	644.0	.00000642	.88247806
23.00	-50.0	-90.1	.00256	655.6	.00000308	.88248114
21.80	-49.3	-90.3	.00259	667.7	.00000314	.88248429
20.70	-48.7	-90.7	.00256	679.7	.00000289	.88248718
19.90	-49.5	-91.3	.00238	684.8	.00000201	.88248919
19.10	-49.5	-91.4	.00243	692.9	.00000195	.88249114
18.40	-49.5	-92.2	.00219	700.3	.00000164	.88249278
17.70	-49.2	-91.7	.00250	709.2	.00000167	.88249445
17.10	-48.8	-91.8	.00253	717.4	.00000153	.88249598
16.60	-48.2	-91.7	.00267	725.6	.00000133	.88249731
16.20	-47.7	-91.5	.00280	732.3	.00000110	.88249841
15.80	-47.3	-91.3	.00300	738.7	.00000118	.88249959
15.30	-47.0	-92.4	.00251	746.6	.00000140	.88250099
14.80	-46.2	-92.5	.00254	756.4	.00000128	.88250227
14.30	-45.9	-91.7	.00310	765.0	.00000143	.88250370

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1025.10	14.7	23.8	18.38860	285.9		
1005.50	12.0	18.0	13.04969	284.7	.31438161	.31438161
986.00	12.7	22.2	17.35098	287.0	.30245446	.61683607
968.00	9.4	-10.5	1.60636	285.2	.17409734	.79093342
948.40	6.6	-10.5	1.63965	284.0	.03245999	.82339340
929.00	4.7	-11.7	1.50216	283.7	.03109735	.85449076
908.00	3.0	-11.7	1.53699	283.9	.03256214	.88705289
886.00	1.9	-12.4	1.46998	284.7	.03375146	.92080435
869.00	2.3	-32.4	.21194	286.7	.01458795	.93539231
853.00	1.9	-29.9	.27924	287.8	.00400957	.93940188
839.00	1.0	-33.7	.19125	288.3	.00336064	.94276252
820.00	.5	-35.8	.15544	289.6	.00336081	.94612333
802.50	-.1	-33.8	.19654	290.8	.00314268	.94926602
787.00	-1.0	-16.3	1.16201	291.4	.01074360	.96000962
770.00	-2.1	-12.8	1.63439	292.1	.02425437	.98426399
752.50	-2.9	-11.7	1.85554	293.1	.03115995	1.01542394
735.00	-4.1	-12.1	1.83362	293.8	.03293885	1.04836279
719.00	-5.4	-12.1	1.87455	294.2	.03027070	1.07863349
703.00	-6.6	-11.3	2.05693	294.8	.03209361	1.11072710
688.00	-7.8	-10.9	2.17981	295.3	.03242394	1.14315104
672.00	-8.8	-10.9	2.23190	296.2	.03601386	1.17916490
657.00	-9.7	-13.9	1.73358	297.1	.03034796	1.20951286
641.00	-10.6	-12.1	2.10343	298.2	.03132240	1.24083526
628.50	-11.7	-13.2	1.93580	298.5	.02576023	1.26659550
614.80	-12.7	-14.6	1.73769	299.3	.02567682	1.29227231
603.00	-13.6	-15.9	1.56475	299.9	.01988195	1.31215426
589.50	-14.8	-15.9	1.60067	300.5	.02180256	1.33395682
577.00	-15.9	-20.1	1.09937	301.0	.01721957	1.35117640
564.30	-17.0	-25.5	.66224	301.6	.01141445	1.36259085
551.50	-18.1	-26.2	.63462	302.3	.00846925	1.37106010
538.40	-19.1	-23.7	.83263	303.2	.00980656	1.38086666
532.00	-19.1	-24.4	.78598	304.2	.00528522	1.38615188
526.70	-19.5	-24.6	.77567	304.6	.00422281	1.39037469
521.00	-20.2	-25.3	.73365	304.8	.00438933	1.39476402
515.60	-20.7	-28.6	.52957	305.1	.00348029	1.39824431
510.00	-21.3	-28.8	.52473	305.3	.00301227	1.40125658
504.70	-21.5	-29.0	.52014	305.9	.00282538	1.40408196
499.10	-22.0	-28.6	.54710	306.3	.00304922	1.40713118
493.80	-22.7	-29.0	.53163	306.4	.00291695	1.41004813
488.10	-23.2	-28.8	.54829	306.8	.00314057	1.41318870
482.50	-23.9	-33.0	.35611	306.9	.00258400	1.41577269
477.00	-24.4	-33.0	.36022	307.3	.00201011	1.41778280
471.10	-25.1	-31.9	.41256	307.6	.00232624	1.42010903
465.50	-25.7	-30.7	.47450	307.9	.00253443	1.42264347
460.00	-26.5	-31.9	.42253	307.9	.00251713	1.42516060
454.10	-27.1	-31.9	.42802	308.3	.00256030	1.42772090
448.80	-27.8	-32.2	.41797	308.5	.00228761	1.43000852
442.50	-28.3	-31.9	.43925	309.1	.00275533	1.43276384
437.00	-28.9	-31.7	.45296	309.4	.00250363	1.43526748
431.30	-29.5	-31.9	.45066	309.9	.00262788	1.43789536
425.90	-30.1	-32.4	.43259	310.2	.00243343	1.44032879
420.00	-30.7	-32.5	.43121	310.7	.00260019	1.44292898
414.80	-31.2	-35.2	.32786	311.1	.00201385	1.44494283
409.20	-31.9	-35.5	.32164	311.5	.00185573	1.44679856
404.00	-32.7	-36.8	.28285	311.6	.00160377	1.44840233
398.30	-33.5	-38.0	.25035	311.8	.00155063	1.44995296

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
393.00	-34.3	-38.7	.23567	311.9	.00131422	1.45126718
387.30	-35.0	-39.2	.22557	312.3	.00134136	1.45260854
382.20	-35.9	-39.6	.21895	312.2	.00115664	1.45376518
377.00	-36.5	-41.7	.17540	312.7	.00104623	1.45481141
372.00	-37.4	-42.7	.15775	312.8	.00084986	1.45566127
367.00	-37.9	-44.0	.13698	313.2	.00075185	1.45641312
361.00	-38.7	-44.0	.13926	313.7	.00084564	1.45725876
356.50	-39.2	-44.0	.14102	314.1	.00064349	1.45790225
351.50	-40.1	-44.0	.14303	314.2	.00072460	1.45862685
346.50	-40.7	-45.0	.12957	314.7	.00069539	1.45932224
342.00	-41.6	-46.1	.11479	314.6	.00056101	1.45988326
337.50	-42.1	-46.9	.10569	315.2	.00050619	1.46038945
332.50	-42.7	-47.2	.10353	315.7	.00053371	1.46092317
327.50	-43.5	-47.5	.10147	316.0	.00052294	1.46144611
323.00	-43.9	-48.6	.08956	316.6	.00043857	1.46188468
318.80	-44.2	-50.5	.07249	317.3	.00034724	1.46223192
314.20	-44.9	-53.1	.05266	317.8	.00029372	1.46252564
309.90	-45.2	-56.6	.03429	318.6	.00019075	1.46271639
305.60	-45.4	-55.0	.04263	319.6	.00016876	1.46288514
301.20	-45.5	-54.2	.04796	320.7	.00020336	1.46308850
297.30	-46.5	-55.1	.04336	320.5	.00018170	1.46327020
293.20	-47.3	-55.5	.04135	320.6	.00017719	1.46344739
289.00	-48.2	-55.9	.04028	320.7	.00017489	1.46362229
284.90	-48.7	-57.0	.03511	321.3	.00015770	1.46377999
280.40	-49.2	-57.4	.03393	322.0	.00015850	1.46393849
276.10	-50.3	-57.9	.03214	321.9	.00014493	1.46408342
272.00	-51.2	-58.1	.03198	322.0	.00013411	1.46421753
268.00	-51.9	-58.4	.03118	322.3	.00012890	1.46434642
264.00	-52.9	-60.3	.02450	322.3	.00011364	1.46446006
259.70	-53.7	-60.4	.02466	322.6	.00010785	1.46456791
254.50	-54.0	-61.4	.02195	323.9	.00012365	1.46469156
249.70	-54.6	-63.1	.01768	324.8	.00009704	1.46478860
245.00	-55.7	-63.1	.01802	325.1	.00008559	1.46487419
240.40	-56.3	-62.6	.01966	325.9	.00008842	1.46496262
236.00	-57.1	-62.6	.02003	326.4	.00008909	1.46505171
232.00	-58.0	-62.9	.01960	326.7	.00008085	1.46513256
228.00	-58.9	-63.0	.01956	326.9	.00007990	1.46521246
224.20	-59.8	-63.8	.01769	327.1	.00007220	1.46528466
220.60	-60.2	-64.1	.01729	327.9	.00006424	1.46534890
217.20	-60.2	-66.0	.01334	329.4	.00005312	1.46540202
213.90	-60.0	-67.2	.01145	331.2	.00004174	1.46544376
210.00	-59.1	-69.2	.00872	334.4	.00004014	1.46548390
206.30	-59.8	-69.5	.00844	335.0	.00003240	1.46551630
202.70	-60.2	-70.3	.00768	336.0	.00002959	1.46554589
199.20	-59.3	-72.7	.00541	339.1	.00002337	1.46556926
195.80	-58.0	-73.2	.00511	342.9	.00001824	1.46558750
192.50	-56.7	-72.4	.00591	346.6	.00001854	1.46560603
189.00	-56.7	-72.7	.00571	348.4	.00002073	1.46562676
185.80	-57.3	-73.0	.00556	349.1	.00001839	1.46564515
182.50	-57.8	-73.5	.00525	350.2	.00001819	1.46566334
179.30	-57.8	-74.2	.00479	352.0	.00001638	1.46567972
176.00	-57.8	-75.1	.00427	353.9	.00001524	1.46569496
172.50	-57.8	-75.8	.00388	355.9	.00001454	1.46570951
169.20	-57.8	-76.5	.00353	357.9	.00001247	1.46572198
165.90	-57.5	-75.9	.00399	360.2	.00001265	1.46573463

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
162.70	-57.5	-77.2	.00330	362.2	.00001191	1.46574654
159.60	-57.5	-78.6	.00270	364.2	.00000948	1.46575601
156.60	-57.5	-79.5	.00237	366.2	.00000775	1.46576376
153.80	-57.3	-79.7	.00232	368.5	.00000668	1.46577044
151.00	-57.5	-80.0	.00224	370.0	.00000651	1.46577695
148.50	-58.0	-80.0	.00228	371.1	.00000575	1.46578270
146.00	-58.4	-80.1	.00229	372.1	.00000581	1.46578851
143.50	-58.9	-80.1	.00233	373.2	.00000587	1.46579438
140.00	-58.6	-80.3	.00232	376.2	.00000830	1.46580268
137.00	-59.3	-80.7	.00222	377.4	.00000694	1.46580963
134.00	-60.0	-80.8	.00221	378.6	.00000678	1.46581641
131.50	-60.0	-81.0	.00219	380.6	.00000562	1.46582203
129.00	-59.8	-81.2	.00215	383.1	.00000553	1.46582755
126.50	-59.1	-81.6	.00207	386.5	.00000538	1.46583293
124.00	-58.6	-81.6	.00211	389.5	.00000533	1.46583827
121.50	-59.3	-81.3	.00225	390.5	.00000556	1.46584383
119.00	-58.6	-81.4	.00226	394.1	.00000575	1.46584958
116.40	-57.5	-81.7	.00222	398.6	.00000595	1.46585552
114.00	-55.7	-81.9	.00217	404.5	.00000538	1.46586090
111.50	-55.5	-82.2	.00210	407.5	.00000545	1.46586636
108.60	-55.0	-82.2	.00219	411.3	.00000633	1.46587269
106.00	-55.7	-82.3	.00218	413.0	.00000578	1.46587847
103.70	-56.3	-82.3	.00223	414.4	.00000517	1.46588364
101.20	-56.9	-82.3	.00228	416.1	.00000575	1.46588939
98.80	-57.8	-82.6	.00224	417.3	.00000553	1.46589492
96.70	-58.2	-82.6	.00229	419.0	.00000484	1.46589977
94.30	-58.4	-82.7	.00231	421.6	.00000563	1.46590540
92.20	-58.4	-82.8	.00233	424.3	.00000496	1.46591036
90.00	-58.4	-83.1	.00225	427.3	.00000514	1.46591550
88.20	-58.6	-83.4	.00217	429.3	.00000405	1.46591955
86.20	-59.5	-83.4	.00225	430.3	.00000450	1.46592405
84.30	-60.0	-83.4	.00230	432.1	.00000441	1.46592847
82.40	-60.2	-83.4	.00232	434.5	.00000447	1.46593294
80.50	-59.8	-83.5	.00234	438.3	.00000452	1.46593745
78.70	-59.8	-83.6	.00236	441.2	.00000431	1.46594176
76.60	-59.8	-83.7	.00238	444.6	.00000507	1.46594682
74.70	-59.8	-83.8	.00241	447.8	.00000463	1.46595146
72.80	-59.8	-84.0	.00240	451.1	.00000465	1.46595611
70.90	-60.2	-84.0	.00246	453.6	.00000471	1.46596082
69.00	-60.7	-83.9	.00257	456.1	.00000487	1.46596569
67.20	-59.5	-83.9	.00264	462.1	.00000477	1.46597046
65.40	-58.6	-84.3	.00251	467.6	.00000472	1.46597518
63.60	-58.2	-84.4	.00254	472.3	.00000463	1.46597981
61.90	-56.7	-84.2	.00269	479.3	.00000453	1.46598434
60.20	-56.7	-84.4	.00268	483.2	.00000466	1.46598901
58.50	-56.9	-84.4	.00276	486.6	.00000472	1.46599373
57.00	-57.1	-84.4	.00284	489.8	.00000428	1.46599801
55.30	-57.3	-84.7	.00279	493.6	.00000487	1.46600288
53.70	-57.8	-85.0	.00274	496.7	.00000450	1.46600738
52.10	-57.8	-85.2	.00273	501.0	.00000446	1.46601184
50.50	-57.5	-85.3	.00277	506.0	.00000449	1.46601632
49.00	-57.5	-85.4	.00277	510.4	.00000423	1.46602055
47.50	-56.9	-85.5	.00281	516.5	.00000426	1.46602482
46.30	-56.5	-85.6	.00283	521.3	.00000344	1.46602826
45.20	-56.1	-85.9	.00276	525.9	.00000313	1.46603139

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
43.90	-55.7	-86.0	.00280	531.3	.00000368	1.46603507
42.70	-55.0	-86.1	.00283	537.0	.00000344	1.46603851
41.40	-54.8	-86.1	.00292	542.3	.00000380	1.46604231
40.20	-54.8	-86.1	.00300	546.9	.00000362	1.46604593
38.80	-54.6	-86.4	.00296	552.9	.00000425	1.46605018
37.60	-54.4	-86.5	.00300	558.4	.00000364	1.46605381
36.30	-54.4	-86.5	.00311	564.1	.00000404	1.46605785
35.00	-54.4	-87.0	.00295	570.0	.00000401	1.46606186
33.80	-54.6	-87.2	.00295	575.2	.00000361	1.46606547
32.50	-54.4	-87.9	.00271	582.2	.00000374	1.46606921
31.30	-54.0	-88.2	.00266	589.5	.00000328	1.46607248
30.10	-53.9	-88.1	.00281	596.7	.00000334	1.46607582
28.80	-53.5	-88.5	.00273	605.3	.00000367	1.46607949
27.60	-52.9	-88.5	.00285	614.3	.00000340	1.46608289
26.40	-52.5	-88.6	.00292	623.3	.00000352	1.46608640
25.70	-52.1	-89.4	.00262	629.1	.00000197	1.46608837
24.30	-51.8	-88.5	.00323	640.4	.00000417	1.46609254
23.30	-51.4	-89.2	.00300	649.2	.00000317	1.46609572
22.50	-50.7	-89.4	.00299	657.8	.00000244	1.46609816
21.70	-50.3	-89.8	.00286	665.8	.00000238	1.46610054
20.90	-50.1	-90.2	.00279	673.5	.00000229	1.46610284
20.20	-48.9	-90.5	.00271	683.8	.00000195	1.46610479
19.30	-49.4	-90.8	.00271	691.2	.00000249	1.46610728
18.80	-49.1	-91.7	.00234	697.5	.00000128	1.46610856
18.20	-49.1	-91.7	.00241	704.0	.00000145	1.46611001
17.60	-48.9	-91.7	.00250	711.3	.00000149	1.46611150
17.00	-48.9	-95.0	.00137	718.4	.00000118	1.46611267
16.50	-48.7	-95.3	.00134	725.1	.00000069	1.46611336
16.00	-48.7	-95.8	.00127	731.5	.00000066	1.46611401
15.50	-48.5	-96.1	.00123	738.7	.00000063	1.46611464
15.00	-48.5	-96.1	.00127	745.7	.00000063	1.46611527
14.20	-48.5	-93.0	.00244	757.5	.00000151	1.46611677
13.70	-48.4	-93.6	.00223	765.8	.00000118	1.46611795

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1015.00	19.7	3.4	4.80892	291.6		
988.00	18.0	2.0	4.47828	292.2	.12793548	.12793548
965.00	16.5	.7	4.17366	292.6	.10152750	.22946298
945.00	15.4	.1	4.07004	293.2	.08411911	.31358209
926.00	14.6	-1.7	3.59079	294.1	.07426289	.38784498
908.00	13.0	-1.7	3.66239	294.1	.06661057	.45445555
892.00	11.6	-3.9	3.09841	294.2	.05519000	.50964555
877.00	11.0	-1.7	3.79264	295.0	.05273741	.56238297
860.00	10.1	-1.7	3.86808	295.7	.06644469	.62882766
844.00	9.5	-7.2	2.44953	296.6	.05157204	.68039970
826.00	8.3	-10.2	1.93248	297.2	.04024276	.72064246
808.00	7.1	-17.2	1.03588	297.8	.02726039	.74790286
792.00	7.1	-17.8	1.00197	299.6	.01663546	.76453832
776.00	6.9	-23.9	.56483	301.2	.01279016	.77732848
760.00	6.9	-17.8	1.04423	303.0	.01313514	.79046361
744.30	6.5	-15.7	1.29292	304.3	.01872097	.80918458
731.50	6.2	-26.4	.46894	305.5	.01150599	.82069057
717.30	5.2	-23.0	.66628	306.1	.00822452	.82891509
704.00	4.1	-22.1	.74288	306.5	.00956212	.83847721
690.80	3.2	-11.7	2.01581	307.2	.01857889	.85705610
677.50	2.1	-3.9	4.08583	307.7	.04140383	.89845993
664.00	1.0	-6.8	3.24490	308.2	.05049205	.94895197
651.00	.1	-8.5	2.83490	308.9	.04032502	.98927699
638.00	-.9	-5.8	3.66097	309.6	.04308467	1.03236166
626.00	-1.4	-5.4	3.88582	310.7	.04620463	1.07856628
614.00	-2.1	-5.8	3.80495	311.6	.04708610	1.12565239
601.00	-2.8	-6.3	3.73068	312.7	.04998095	1.17563334
590.00	-3.3	-9.0	3.01856	313.8	.03787820	1.21351154
578.00	-4.0	-10.6	2.66961	314.9	.03482537	1.24833691
566.00	-4.3	-12.1	2.38378	316.3	.03093898	1.27927589
554.00	-5.0	-14.8	1.89747	317.4	.02621163	1.30548753
542.00	-5.5	-18.1	1.42617	318.8	.02034873	1.32583626
532.00	-7.0	-19.7	1.24728	318.8	.01363999	1.33947624
519.80	-8.4	-19.2	1.34191	319.2	.01611634	1.35559258
508.50	-9.5	-18.9	1.40778	319.8	.01585276	1.37144534
497.80	-10.7	-20.9	1.18071	320.4	.01413102	1.38557637
487.30	-11.8	-24.6	.84457	320.9	.01084970	1.39642607
477.00	-13.0	-26.6	.70525	321.5	.00814442	1.40457049
466.70	-14.1	-30.9	.45880	322.1	.00611717	1.41068766
456.40	-15.1	-34.1	.33554	322.9	.00417432	1.41486198
446.50	-16.2	-33.7	.35893	323.5	.00350776	1.41836974
436.70	-17.4	-33.1	.39068	324.1	.00374803	1.42211777
427.00	-19.3	-32.6	.41902	323.8	.00400719	1.42612496
417.60	-21.0	-32.2	.44940	323.6	.00416484	1.43028980
407.80	-22.3	-31.9	.47561	324.1	.00462499	1.43491480
398.40	-23.8	-32.6	.44913	324.3	.00443494	1.43934974
389.00	-25.4	-34.2	.38770	324.5	.00401331	1.44336306
379.50	-26.8	-35.7	.33762	324.9	.00351553	1.44687858
371.80	-28.2	-35.1	.37076	324.9	.00278288	1.44966146
366.20	-28.6	-34.4	.40557	325.8	.00221807	1.45187953
360.00	-29.0	-34.7	.40040	326.9	.00254948	1.45442902
355.00	-30.1	-34.8	.40017	326.8	.00204225	1.45647126
350.00	-31.0	-34.8	.40589	326.8	.00205626	1.45852752
345.80	-32.1	-35.1	.39865	326.5	.00172400	1.46025153
341.00	-32.9	-34.9	.41039	326.7	.00198130	1.46223283
336.80	-33.8	-35.2	.40345	326.7	.00174393	1.46397676

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
332.00	-34.4	-35.7	.38595	327.1	.00193322	1.46590997
327.30	-35.3	-36.1	.37516	327.3	.00182509	1.46773507
323.00	-36.3	-36.3	.37467	327.2	.00164501	1.46938008
318.00	-37.0	-37.0	.34968	327.6	.00184780	1.47122788
313.00	-37.7	-37.8	.32720	328.1	.00172672	1.47295460
310.00	-38.9	-39.3	.27780	327.4	.00092600	1.47388060
303.50	-39.6	-40.4	.25280	328.3	.00175962	1.47564022
298.50	-40.4	-41.3	.22959	328.8	.00123060	1.47687082
293.00	-41.0	-44.0	.17156	329.7	.00112566	1.47799648
288.00	-41.6	-44.4	.16664	330.4	.00086275	1.47885923
284.00	-42.5	-45.0	.15788	330.4	.00066228	1.47952151
280.00	-43.2	-45.1	.15831	330.9	.00064529	1.48016681
276.20	-44.4	-45.3	.15694	330.3	.00061120	1.48077801
272.40	-45.4	-45.9	.14720	330.2	.00058964	1.48136765
268.70	-46.3	-46.7	.13666	330.3	.00053585	1.48190349
265.00	-46.9	-48.4	.11303	330.6	.00047135	1.48237485
261.40	-47.8	-48.4	.11341	330.6	.00041589	1.48279074
257.90	-48.5	-48.0	.12119	330.9	.00041892	1.48320965
253.50	-49.4	-49.0	.10981	331.2	.00051855	1.48372820
249.30	-49.8	-49.3	.10713	332.2	.00046486	1.48419306
244.80	-50.9	-50.0	.09943	332.3	.00047423	1.48466729
240.50	-51.6	-50.9	.09143	332.9	.00041869	1.48508598
236.00	-52.9	-51.9	.08182	332.7	.00039776	1.48548374
231.80	-53.9	-53.0	.07254	332.9	.00033078	1.48581451
227.50	-54.9	-54.1	.06388	333.1	.00029927	1.48611379
223.50	-55.4	-55.5	.05470	334.2	.00024198	1.48635577
220.60	-56.2	-56.4	.04899	334.1	.00015341	1.48650917
217.70	-57.3	-57.3	.04431	333.7	.00013804	1.48664722
215.20	-57.9	-57.9	.04119	333.8	.00010905	1.48675627
211.00	-58.9	-58.6	.03825	334.3	.00017023	1.48692650
207.20	-59.3	-59.4	.03514	335.3	.00014229	1.48706879
203.00	-59.5	-59.5	.03554	336.9	.00015146	1.48722024
200.30	-60.0	-59.8	.03469	337.4	.00009675	1.48731700
196.20	-60.3	-59.8	.03510	339.1	.00014599	1.48746298
192.50	-60.7	-60.5	.03254	340.1	.00012767	1.48759066
189.00	-61.7	-61.4	.02934	340.3	.00011049	1.48770115
185.90	-62.7	-62.2	.02690	340.3	.00008893	1.48779008
182.50	-63.8	-62.8	.02518	340.4	.00009032	1.48788039
179.40	-63.8	-63.1	.02443	342.1	.00007845	1.48795885
176.00	-63.5	-63.9	.02224	344.4	.00008094	1.48803979
172.50	-63.0	-65.2	.01893	347.2	.00007349	1.48811328
169.30	-62.7	-65.9	.01736	349.5	.00005923	1.48817252
166.20	-62.5	-66.8	.01574	351.8	.00005233	1.48822485
163.20	-62.2	-67.2	.01512	354.1	.00004722	1.48827207
160.10	-62.2	-67.6	.01439	356.0	.00004666	1.48831873
157.00	-63.0	-68.6	.01277	356.7	.00004295	1.48836167
153.60	-64.0	-69.5	.01145	357.1	.00004201	1.48840368
150.40	-64.3	-70.0	.01078	358.8	.00003628	1.48843996
147.20	-64.6	-71.8	.00839	360.6	.00003129	1.48847125
143.50	-64.0	-78.2	.00317	364.1	.00002183	1.48849308
140.80	-63.0	-79.0	.00283	368.0	.00000826	1.48850134
137.90	-62.5	-79.8	.00256	371.1	.00000797	1.48850931
135.20	-62.5	-79.7	.00265	373.2	.00000717	1.48851648
132.50	-62.5	-79.9	.00263	375.3	.00000727	1.48852375
129.70	-61.5	-79.9	.00269	379.4	.00000758	1.48853134

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
127.00	-60.3	-80.1	.00263	383.9	.00000732	1.48853865
124.40	-60.3	-80.4	.00254	386.2	.00000685	1.48854551
121.70	-60.0	-80.5	.00256	389.1	.00000702	1.48855253
119.00	-59.8	-80.6	.00258	392.0	.00000708	1.48855960
116.20	-60.0	-80.9	.00253	394.2	.00000730	1.48856691
113.50	-60.3	-81.0	.00256	396.4	.00000700	1.48857391
111.00	-59.8	-80.7	.00273	399.9	.00000674	1.48858064
108.60	-59.1	-81.4	.00249	403.7	.00000638	1.48858702
106.30	-57.1	-81.6	.00247	410.0	.00000581	1.48859283
104.00	-57.5	-81.7	.00248	411.7	.00000580	1.48859863
101.70	-57.9	-82.2	.00232	413.5	.00000563	1.48860426
99.40	-58.6	-82.4	.00230	414.9	.00000542	1.48860969
97.20	-59.3	-82.2	.00243	416.2	.00000530	1.48861499
95.00	-59.8	-82.5	.00237	418.1	.00000538	1.48862037
92.50	-60.5	-82.5	.00244	419.8	.00000612	1.48862650
90.30	-61.0	-82.8	.00235	421.8	.00000536	1.48863186
88.00	-61.5	-82.5	.00256	423.9	.00000575	1.48863761
85.80	-61.0	-83.4	.00225	428.0	.00000539	1.48864301
83.70	-60.3	-83.4	.00230	432.5	.00000487	1.48864788
81.50	-59.8	-83.4	.00236	436.8	.00000523	1.48865311
79.50	-60.0	-83.3	.00246	439.4	.00000492	1.48865803
77.50	-60.3	-83.5	.00245	442.1	.00000501	1.48866303
75.50	-60.7	-83.4	.00255	444.4	.00000510	1.48866813
73.60	-61.2	-83.9	.00241	446.6	.00000481	1.48867294
71.70	-60.7	-84.0	.00244	451.0	.00000469	1.48867764
69.70	-60.3	-83.9	.00255	455.7	.00000508	1.48868272
67.70	-60.0	-84.1	.00254	460.0	.00000519	1.48868790
65.80	-59.1	-84.4	.00249	465.8	.00000486	1.48869276
63.90	-58.9	-84.7	.00243	470.2	.00000475	1.48869751
62.20	-58.6	-84.4	.00263	474.4	.00000438	1.48870189
60.40	-58.6	-84.4	.00271	478.4	.00000489	1.48870678
58.70	-57.7	-84.9	.00256	484.3	.00000456	1.48871134
56.90	-56.9	-84.8	.00268	490.6	.00000481	1.48871616
55.20	-55.8	-85.1	.00263	497.3	.00000460	1.48872076
53.50	-55.8	-85.4	.00257	501.8	.00000450	1.48872526
51.80	-55.8	-85.4	.00266	506.5	.00000453	1.48872979
50.30	-55.4	-86.3	.00232	511.7	.00000380	1.48873359
48.70	-55.2	-85.6	.00273	516.9	.00000411	1.48873770
47.20	-54.5	-85.9	.00267	523.1	.00000411	1.48874182
45.70	-53.7	-86.0	.00270	529.9	.00000410	1.48874591
44.10	-53.5	-86.5	.00255	535.8	.00000428	1.48875019
42.60	-53.5	-86.5	.00264	541.1	.00000396	1.48875415
41.30	-53.3	-87.3	.00238	546.4	.00000332	1.48875748
40.00	-52.9	-87.7	.00227	552.4	.00000308	1.48876056
38.60	-52.9	-87.5	.00245	558.0	.00000337	1.48876393
37.30	-52.8	-87.5	.00254	564.0	.00000331	1.48876724
35.80	-52.6	-87.6	.00259	571.2	.00000392	1.48877116
34.50	-52.4	-87.6	.00269	577.8	.00000350	1.48877466
33.00	-52.8	-87.6	.00281	584.1	.00000420	1.48877886
31.70	-52.9	-88.4	.00254	590.3	.00000355	1.48878241
30.50	-52.0	-88.4	.00264	599.5	.00000316	1.48878556
29.20	-51.4	-88.6	.00264	608.6	.00000349	1.48878905
27.70	-51.0	-89.3	.00245	618.9	.00000389	1.48879294
26.50	-50.5	-89.3	.00256	628.3	.00000305	1.48879600
25.30	-49.9	-89.5	.00262	638.2	.00000316	1.48879915

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
24.00	-49.8	-89.6	.00270	648.5	.00000352	1.48880267
22.80	-49.6	-90.1	.00259	658.6	.00000323	1.48880590
21.80	-49.4	-90.1	.00271	667.6	.00000270	1.48880860
20.90	-49.2	-90.1	.00283	676.2	.00000253	1.48881114
20.10	-49.0	-90.2	.00288	684.4	.00000232	1.48881346
19.30	-48.7	-90.7	.00272	693.5	.00000228	1.48881574
18.60	-48.3	-91.1	.00263	701.9	.00000191	1.48881765
17.80	-46.9	-91.4	.00261	715.2	.00000213	1.48881978
17.10	-46.1	-91.7	.00259	726.1	.00000185	1.48882163
16.50	-46.1	-91.8	.00262	733.6	.00000158	1.48882321
16.00	-46.1	-91.9	.00263	740.0	.00000133	1.48882453

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1020.90	31.2	17.7	12.54664	302.6		
1003.80	27.1	15.2	10.91394	299.9	.20468077	.20468077
986.00	23.3	15.2	11.11449	297.6	.20005324	.40473402
968.00	19.8	14.1	10.53738	295.7	.19884282	.60357684
950.00	16.4	13.1	9.98811	293.9	.18849859	.79207543
934.00	16.3	9.2	7.83025	295.1	.14545539	.93753082
916.00	15.0	9.2	7.98609	295.4	.14525154	1.08278236
899.00	14.1	7.4	7.21675	296.2	.13186090	1.21464325
881.00	13.7	2.2	5.10534	297.4	.11316167	1.32780492
865.00	14.1	-13.9	1.32262	299.5	.05247299	1.38027792
849.00	14.1	-12.8	1.47838	301.1	.02286524	1.40314315
832.50	13.3	-4.6	3.11342	301.9	.03865525	1.44179840
815.20	12.6	-4.1	3.32102	302.9	.05679351	1.49859191
799.00	11.2	.9	5.13309	303.1	.06987557	1.56846748
782.30	10.1	2.9	6.04760	303.8	.09526367	1.66373116
766.00	9.3	2.9	6.17756	304.8	.10166800	1.76539916
753.80	8.0	-3.1	3.92246	304.8	.06286725	1.82826641
738.00	6.9	-4.1	3.67047	305.5	.06120811	1.88947453
722.30	6.5	-4.1	3.75074	306.9	.05944514	1.94891967
707.00	6.1	-12.1	1.89243	308.3	.04405108	1.99297075
690.40	5.5	-15.7	1.39238	309.8	.02782024	2.02079099
675.00	4.8	-8.7	2.70057	311.0	.03215873	2.05294973
659.00	4.1	-8.7	2.76643	312.3	.04462835	2.09757808
644.00	2.9	-9.9	2.54300	313.1	.04063323	2.13821131
635.00	2.4	-13.9	1.80307	313.7	.01995640	2.15816770
622.00	1.8	-19.4	1.09601	314.9	.01922855	2.17739625
610.00	1.1	-21.4	.92281	315.9	.01236007	2.18975632
594.00	-.1	-22.8	.82758	316.9	.01428880	2.20404512
574.60	-3.2	-25.1	.67859	316.3	.01490788	2.21895300
569.50	-3.5	-26.7	.58455	316.8	.00328672	2.22223972
563.80	-4.1	-28.1	.50814	316.9	.00317772	2.22541744
558.50	-4.6	-29.7	.43704	317.1	.00255583	2.22797327
553.50	-5.3	-30.8	.39142	317.2	.00211342	2.23008668
548.80	-5.7	-31.8	.35748	317.5	.00179583	2.23188251
544.30	-6.1	-32.5	.33266	317.8	.00158451	2.23346703
540.00	-6.3	-32.2	.34613	318.2	.00148918	2.23495620
533.40	-6.7	-32.4	.34497	318.9	.00232717	2.23728338
527.80	-7.2	-33.3	.31719	319.2	.00189188	2.23917526
522.00	-7.5	-37.2	.21010	319.9	.00156033	2.24073559
516.40	-7.9	-37.2	.21237	320.4	.00120704	2.24194263
511.00	-8.4	-36.0	.24343	320.8	.00125578	2.24319841
505.40	-9.0	-35.5	.26063	321.0	.00144015	2.24463856
500.20	-9.5	-35.4	.26726	321.3	.00140050	2.24603906
495.00	-10.2	-35.8	.25858	321.5	.00139508	2.24743414
490.00	-10.7	-39.0	.18296	321.8	.00112635	2.24856049
485.00	-11.3	-38.9	.18723	322.0	.00094435	2.24950483
480.00	-11.8	-42.3	.12822	322.3	.00080472	2.25030956
475.40	-12.4	-43.7	.10969	322.4	.00055836	2.25086792
470.60	-13.1	-43.9	.10829	322.6	.00053382	2.25140174
466.20	-13.8	-44.2	.10558	322.5	.00048010	2.25188184
462.00	-14.3	-44.8	.09952	322.7	.00043949	2.25232133
457.90	-14.7	-45.1	.09705	323.1	.00041118	2.25273252
453.80	-15.5	-45.2	.09682	322.9	.00040554	2.25313805
449.20	-16.0	-45.1	.09893	323.3	.00045940	2.25359745
444.20	-16.7	-45.2	.09891	323.3	.00050469	2.25410214
439.00	-17.4	-44.3	.11087	323.6	.00055656	2.25465870

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
433.80	-18.0	-44.9	.10478	323.9	.00057213	2.25523083
428.90	-18.5	-46.6	.08676	324.4	.00047882	2.25570965
424.00	-19.2	-47.8	.07548	324.5	.00040558	2.25611523
419.80	-19.7	-47.9	.07541	324.7	.00032333	2.25643855
415.30	-20.5	-47.9	.07623	324.8	.00034815	2.25678670
411.00	-21.0	-47.1	.08485	325.1	.00071955	2.25750625
406.20	-21.8	-46.5	.09263	325.2	.00043464	2.25794089
401.60	-22.4	-46.3	.09576	325.4	.00044213	2.25838302
397.00	-23.2	-47.3	.08594	325.5	.00042643	2.25880945
392.60	-23.8	-46.3	.09796	325.7	.00041282	2.25922227
388.20	-24.6	-46.5	.09692	325.8	.00043748	2.25965975
384.00	-25.1	-46.8	.09378	326.1	.00040865	2.26006840
379.50	-26.0	-46.8	.09490	326.0	.00043319	2.26050159
375.20	-26.5	-47.1	.09295	326.4	.00041211	2.26091370
370.00	-27.0	-48.2	.08288	327.0	.00046647	2.26138017
365.20	-27.7	-49.3	.07330	327.4	.00038247	2.26176263
360.40	-28.3	-50.2	.06631	327.7	.00034188	2.26210451
355.80	-28.7	-51.4	.05770	328.4	.00029103	2.26239555
351.10	-29.5	-52.1	.05345	328.6	.00026654	2.26266208
346.70	-29.9	-54.4	.04034	329.2	.00021055	2.26287264
342.20	-30.4	-55.4	.03606	329.7	.00017539	2.26304802
337.80	-31.2	-55.7	.03514	329.9	.00015983	2.26320785
333.20	-31.9	-55.5	.03667	330.2	.00016853	2.26337638
328.80	-32.6	-55.0	.03974	330.5	.00017154	2.26354793
324.40	-33.4	-53.7	.04751	330.7	.00019588	2.26374380
320.00	-34.1	-54.1	.04543	331.0	.00020863	2.26395243
315.90	-35.0	-55.1	.04058	331.1	.00017992	2.26413235
312.00	-35.5	-54.4	.04525	331.5	.00017078	2.26430313
306.40	-36.4	-54.9	.04307	332.0	.00025235	2.26455548
301.70	-37.1	-55.2	.04209	332.5	.00020422	2.26475970
297.10	-38.2	-56.0	.03846	332.3	.00018907	2.26494877
293.00	-38.8	-56.1	.03827	332.8	.00016050	2.26510927
288.60	-39.7	-56.2	.03848	332.9	.00017227	2.26528154
284.50	-40.8	-57.1	.03482	332.8	.00015332	2.26543486
280.50	-41.2	-58.4	.02951	333.5	.00013128	2.26556614
276.60	-41.9	-59.3	.02672	333.9	.00011188	2.26567802
272.80	-42.5	-59.4	.02659	334.3	.00010334	2.26578136
269.30	-43.1	-59.5	.02669	334.7	.00009511	2.26587647
265.90	-43.7	-60.3	.02437	334.9	.00008856	2.26596503
262.50	-44.2	-60.3	.02445	335.5	.00008468	2.26604971
260.00	-44.7	-60.5	.02401	335.7	.00006181	2.26611152
255.40	-45.5	-60.8	.02354	336.2	.00011159	2.26622312
251.70	-46.0	-61.4	.02216	336.8	.00008626	2.26630938
248.00	-47.2	-61.6	.02166	336.5	.00008272	2.26639210
244.70	-47.7	-62.0	.02095	337.0	.00007173	2.26646383
241.40	-48.6	-61.7	.02205	337.0	.00007237	2.26653621
238.20	-49.3	-62.3	.02053	337.2	.00006951	2.26660572
235.00	-49.7	-62.4	.02061	338.0	.00006717	2.26667289
231.70	-50.1	-62.7	.01995	338.8	.00006828	2.26674117
228.40	-50.8	-63.1	.01930	339.1	.00006607	2.26680724
225.00	-51.2	-63.7	.01799	340.0	.00006469	2.26687193
221.80	-51.5	-64.2	.01708	340.8	.00005725	2.26692918
218.20	-52.1	-64.5	.01655	341.5	.00006177	2.26699094
215.50	-52.9	-64.8	.01598	341.5	.00004481	2.26703575
212.30	-53.3	-65.0	.01591	342.4	.00005206	2.26708782

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
209.00	-53.7	-65.3	.01541	343.3	.00005272	2.26714054
205.70	-54.7	-66.0	.01421	343.3	.00004986	2.26719040
202.40	-55.1	-66.8	.01285	344.2	.00004555	2.26723595
199.20	-55.3	-67.1	.01255	345.4	.00004146	2.26727740
196.00	-55.5	-67.8	.01156	346.7	.00003935	2.26731676
193.20	-56.1	-68.2	.01093	347.1	.00003211	2.26734887
190.00	-56.8	-68.4	.01090	347.8	.00003563	2.26738450
187.00	-57.4	-68.8	.01031	348.3	.00003245	2.26741695
184.30	-57.9	-69.8	.00907	349.0	.00002670	2.26744366
181.40	-58.3	-70.2	.00866	349.9	.00002624	2.26746990
177.00	-59.2	-70.3	.00879	350.8	.00003918	2.26750907
174.80	-59.7	-70.4	.00872	351.3	.00001964	2.26752871
171.80	-60.2	-70.4	.00896	352.3	.00002705	2.26755576
169.00	-60.4	-70.3	.00920	353.5	.00002594	2.26758170
166.20	-60.7	-71.1	.00825	354.8	.00002493	2.26760663
163.40	-61.4	-72.1	.00722	355.3	.00002210	2.26762873
160.80	-61.7	-72.4	.00703	356.5	.00001889	2.26764762
158.40	-61.7	-71.9	.00770	358.1	.00001802	2.26766564
155.80	-61.7	-71.8	.00799	359.8	.00002080	2.26768644
153.20	-61.9	-72.8	.00698	361.1	.00001986	2.26770630
150.60	-62.2	-73.4	.00642	362.4	.00001778	2.26772408
148.00	-62.7	-74.2	.00584	363.3	.00001626	2.26774034
145.00	-63.2	-75.0	.00524	364.6	.00001696	2.26775730
142.30	-64.0	-75.4	.00504	365.1	.00001416	2.26777145
139.50	-64.0	-76.1	.00461	367.2	.00001377	2.26778522
136.40	-64.5	-76.7	.00428	368.6	.00001405	2.26779927
134.20	-64.8	-77.2	.00398	369.9	.00000925	2.26780853
131.60	-64.8	-77.2	.00406	371.9	.00001065	2.26781918
128.80	-64.8	-77.2	.00415	374.2	.00001171	2.26783089
126.20	-65.1	-77.1	.00429	375.9	.00001118	2.26784207
123.70	-65.4	-77.9	.00390	377.5	.00001043	2.26785250
121.00	-65.6	-78.7	.00350	379.4	.00001018	2.26786268
118.50	-66.2	-78.9	.00343	380.6	.00000882	2.26787150
115.80	-66.8	-79.7	.00310	382.1	.00000899	2.26788048
113.70	-67.1	-79.7	.00316	383.5	.00000669	2.26788718
111.80	-66.8	-80.1	.00299	385.9	.00000596	2.26789314
109.00	-66.5	-79.5	.00339	389.3	.00000910	2.26790224
107.20	-66.5	-80.5	.00291	391.1	.00000578	2.26790802
104.30	-65.9	-81.3	.00262	395.3	.00000817	2.26791619
102.40	-65.4	-81.1	.00279	398.5	.00000525	2.26792143
100.30	-64.8	-81.2	.00277	401.9	.00000595	2.26792738
98.30	-64.2	-82.0	.00250	405.3	.00000536	2.26793274
96.50	-63.4	-82.3	.00239	409.0	.00000449	2.26793723
94.70	-62.9	-82.4	.00240	412.3	.00000440	2.26794162
92.80	-62.2	-82.3	.00249	416.2	.00000474	2.26794636
90.70	-61.9	-81.8	.00280	419.4	.00000566	2.26795202
88.70	-62.2	-82.7	.00245	421.6	.00000533	2.26795736
86.80	-62.2	-82.6	.00254	424.2	.00000483	2.26796219
84.80	-62.7	-82.0	.00290	426.0	.00000554	2.26796773
83.10	-62.7	-81.6	.00314	428.5	.00000523	2.26797296
81.20	-62.4	-82.2	.00289	431.8	.00000584	2.26797880
79.20	-62.2	-83.4	.00245	435.5	.00000544	2.26798424
77.30	-61.7	-83.7	.00239	439.5	.00000468	2.26798892
75.50	-61.4	-83.1	.00270	443.0	.00000466	2.26799358
73.50	-60.7	-83.1	.00277	448.0	.00000557	2.26799916

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
71.60	-60.2	-82.9	.00294	452.4	.00001121	2.26801036
69.70	-60.0	-83.0	.00297	456.4	.00000572	2.26801609
67.80	-59.5	-83.1	.00300	461.0	.00000578	2.26802187
66.00	-58.6	-83.3	.00299	466.6	.00000550	2.26802737
64.30	-57.7	-83.6	.00292	472.0	.00000511	2.26803248
62.70	-57.4	-83.8	.00285	475.9	.00000469	2.26803717
61.20	-57.2	-84.1	.00277	479.7	.00000429	2.26804146
59.60	-56.8	-84.2	.00280	484.3	.00000454	2.26804601
58.20	-56.1	-84.2	.00287	489.1	.00000404	2.26805004
56.70	-56.6	-84.3	.00289	491.8	.00000440	2.26805444
55.30	-56.1	-84.8	.00272	496.3	.00000401	2.26805845
54.00	-55.7	-84.9	.00274	500.6	.00000361	2.26806206
52.50	-55.1	-84.7	.00291	506.1	.00000432	2.26806638
51.00	-54.7	-84.3	.00322	511.3	.00000468	2.26807106
49.70	-54.1	-84.7	.00308	516.5	.00000417	2.26807523
48.20	-53.7	-84.9	.00307	522.0	.00000469	2.26807992
46.70	-53.1	-85.0	.00311	528.2	.00000472	2.26808465
45.30	-52.7	-85.4	.00304	533.7	.00000438	2.26808903
43.90	-51.7	-85.9	.00286	540.9	.00000420	2.26809323
42.60	-51.0	-86.0	.00289	547.4	.00000380	2.26809703
41.30	-50.8	-85.7	.00315	552.7	.00000401	2.26810104
40.30	-50.6	-86.3	.00289	557.1	.00000307	2.26810411
39.10	-50.4	-86.5	.00287	562.4	.00000352	2.26810762
38.00	-50.4	-86.6	.00289	567.0	.00000322	2.26811084
36.90	-50.2	-86.9	.00286	572.2	.00000322	2.26811406
35.70	-51.0	-86.9	.00296	575.7	.00000356	2.26811762
34.50	-51.0	-87.1	.00295	581.4	.00000361	2.26812123
33.30	-50.8	-87.6	.00276	587.8	.00000349	2.26812471
32.20	-50.2	-88.2	.00257	594.9	.00000298	2.26812769
31.10	-50.1	-88.1	.00272	601.4	.00000297	2.26813066
30.00	-49.5	-88.1	.00282	609.1	.00000310	2.26813376
28.80	-48.8	-88.2	.00288	618.2	.00000349	2.26813725
27.70	-48.3	-88.3	.00293	626.6	.00000325	2.26814049
26.60	-47.7	-88.3	.00305	635.4	.00000335	2.26814385
25.30	-47.4	-88.5	.00314	645.5	.00000410	2.26814795
24.10	-46.9	-88.6	.00322	656.0	.00000389	2.26815183
23.00	-46.4	-88.5	.00345	666.3	.00000374	2.26815557
22.20	-45.9	-89.8	.00280	674.6	.00000255	2.26815812
21.30	-46.9	-90.5	.00259	679.6	.00000247	2.26816060
20.30	-46.4	-90.9	.00253	690.5	.00000261	2.26816320
19.40	-45.7	-93.8	.00154	701.6	.00000186	2.26816507
18.80	-45.0	-91.4	.00247	710.0	.00000122	2.26816629
18.30	-44.6	-93.8	.00163	717.0	.00000104	2.26816733
17.70	-44.1	-94.9	.00136	725.4	.00000091	2.26816824
17.20	-43.4	-94.4	.00154	733.4	.00000073	2.26816897
16.70	-43.0	-92.8	.00213	741.2	.00000092	2.26816989

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1013.30	23.7	11.5	8.43676	295.7		
991.50	22.5	14.5	10.54699	296.4	.21114495	.21114495
974.00	21.4	15.6	11.51981	296.8	.19702421	.40816917
960.00	20.2	14.5	10.89913	296.8	.16013463	.56830379
946.20	20.2	16.8	12.80190	298.0	.16687387	.73517767
930.50	19.3	16.8	13.02242	298.5	.20685720	.94203487
916.00	18.6	15.6	12.26361	299.1	.18706430	1.12909918
900.50	17.9	14.5	11.63275	299.9	.18897557	1.31807475
887.00	17.7	13.5	11.01165	301.0	.15596847	1.47404322
872.00	16.9	13.5	11.20449	301.6	.17002080	1.64406402
858.00	15.9	11.5	9.98836	301.9	.15137686	1.79544088
843.50	15.0	11.5	10.16287	302.5	.14907736	1.94451824
829.20	14.2	11.5	10.34105	303.2	.14959429	2.09411253
814.80	13.7	10.6	9.87902	304.2	.14855498	2.24266751
800.00	12.9	9.7	9.48313	304.9	.14620335	2.38887087
784.30	12.4	8.8	9.11738	306.1	.14899328	2.53786415
770.00	11.6	8.0	8.78473	306.9	.13061181	2.66847596
755.20	11.0	6.4	8.01521	307.9	.12685616	2.79533212
740.00	10.4	5.7	7.77167	309.0	.12242836	2.91776048
726.00	9.3	4.9	7.52193	309.6	.10923952	3.02700000
711.50	8.3	2.9	6.62727	310.2	.10467473	3.13167472
697.00	7.4	1.6	6.17583	311.0	.09471640	3.22639112
683.00	6.3	1.0	6.03503	311.7	.08722010	3.31361122
671.00	5.8	.4	5.87844	312.6	.07293934	3.38655056
657.50	5.2	-.2	5.73504	313.8	.07999049	3.46654105
645.00	4.8	-1.8	5.09432	315.0	.06906451	3.53560556
631.00	3.6	-2.9	4.76067	315.7	.07039244	3.60599801
619.00	2.6	-3.4	4.65440	316.3	.05764303	3.66364104
607.00	1.8	-5.8	3.87251	317.1	.05220537	3.71584640
595.80	.8	-7.9	3.26995	317.7	.04081391	3.75666031
584.00	-.1	-8.7	3.10844	318.4	.03840032	3.79506063
572.00	-.7	-9.1	3.06398	319.6	.03779012	3.83285075
560.00	-1.6	-9.5	3.02254	320.5	.03726420	3.87011495
549.50	-2.8	-10.3	2.88102	320.8	.03162608	3.90174103
538.00	-4.0	-10.6	2.84983	321.3	.03362477	3.93536580
512.00	-5.3	-10.6	2.99525	324.3	.07753645	4.01290224
497.00	-6.1	-12.4	2.63376	326.1	.04307896	4.05598120
486.80	-7.0	-13.1	2.52871	326.9	.02686580	4.08284700
480.70	-8.2	-14.0	2.34630	326.7	.01517214	4.09801914
473.90	-8.9	-15.3	2.12398	327.1	.01550907	4.11352821
467.00	-9.8	-20.6	1.30410	327.3	.01206821	4.12559642
458.00	-11.0	-21.5	1.21563	327.7	.01157013	4.13716654
448.00	-12.2	-21.7	1.21523	328.2	.01240225	4.14956880
439.20	-13.3	-22.2	1.18687	328.7	.01078489	4.16035369
429.00	-14.5	-24.9	.92874	329.4	.01100975	4.17136344
418.60	-15.8	-24.9	.95185	330.0	.00997856	4.18134201
408.70	-16.6	-28.0	.70961	331.3	.00839204	4.18973404
399.00	-17.7	-27.0	.81032	332.1	.00752209	4.19725613
389.60	-19.1	-26.6	.86106	332.6	.00801578	4.20527191
380.00	-20.4	-27.0	.85089	333.2	.00838505	4.21365696
371.50	-21.8	-29.0	.70292	333.5	.00673844	4.22039540
362.00	-23.1	-30.2	.64119	334.3	.00651477	4.22691017
353.00	-24.6	-32.5	.51756	334.7	.00532077	4.23223095
343.80	-26.1	-33.3	.48526	335.2	.00470708	4.23693803
334.90	-27.6	-35.7	.38392	335.6	.00394677	4.24088480
326.20	-29.0	-43.7	.16030	336.2	.00241566	4.24330045

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
318.00	-30.5	-45.7	.13021	336.7	.00443304	4.24773349
315.00	-31.0	-45.4	.13583	336.9	.00040719	4.24814068
309.30	-31.6	-47.2	.11158	337.7	.00071950	4.24886018
300.80	-32.6	-52.4	.06066	339.1	.00074695	4.24960713
295.80	-33.0	-55.4	.04199	340.2	.00026184	4.24986897
291.90	-33.6	-55.4	.04215	340.5	.00016741	4.25003639
288.00	-34.7	-55.8	.04074	340.3	.00016493	4.25020131
283.90	-35.5	-55.9	.04056	340.5	.00017005	4.25037137
280.00	-36.4	-55.9	.04152	340.7	.00016330	4.25053467
275.50	-37.5	-56.2	.04025	340.6	.00018772	4.25072239
271.50	-38.5	-57.5	.03448	340.6	.00015250	4.25087489
267.60	-39.3	-58.0	.03276	340.8	.00013378	4.25100867
263.90	-39.9	-57.6	.03513	341.3	.00012816	4.25113684
260.00	-40.8	-57.1	.03809	341.5	.00014570	4.25128254
256.50	-41.4	-55.5	.04752	341.9	.00015287	4.25143541
252.50	-42.3	-54.7	.05358	342.1	.00020634	4.25164175
249.00	-42.9	-54.4	.05647	342.6	.00019652	4.25183827
245.40	-43.7	-54.4	.05729	342.9	.00020894	4.25204721
242.20	-44.3	-54.4	.05805	343.2	.00018831	4.25223552
239.30	-45.2	-54.4	.05875	343.0	.00017282	4.25240834
236.50	-45.9	-54.4	.05945	343.2	.00016886	4.25257720
234.10	-47.0	-54.5	.05948	342.4	.00014561	4.25272281
231.60	-47.5	-54.5	.06012	342.7	.00015254	4.25287536
229.20	-48.3	-54.5	.06019	342.5	.00014731	4.25302267
226.70	-49.0	-54.8	.05856	342.5	.00015146	4.25317413
224.40	-49.5	-55.4	.05536	342.7	.00013366	4.25330779
222.20	-50.2	-55.8	.05281	342.6	.00012140	4.25342919
220.00	-50.6	-56.5	.04853	343.0	.00011374	4.25354293
217.80	-51.1	-56.6	.04857	343.2	.00010897	4.25365190
215.70	-51.5	-56.4	.04997	343.6	.00010557	4.25375748
213.60	-52.0	-55.7	.05546	343.7	.00011297	4.25387044
211.40	-52.4	-55.5	.05766	344.1	.00012697	4.25399742
209.50	-52.8	-55.2	.06043	344.4	.00011446	4.25411187
207.40	-53.3	-55.2	.06104	344.5	.00013013	4.25424200
205.30	-54.1	-55.1	.06226	344.3	.00013210	4.25437410
203.30	-54.5	-55.1	.06287	344.7	.00012767	4.25450177
201.30	-54.7	-56.8	.05108	345.4	.00011627	4.25461805
199.40	-55.1	-58.0	.04397	345.7	.00009213	4.25471018
197.50	-55.9	-58.3	.04275	345.3	.00008406	4.25479424
195.70	-56.1	-58.7	.04117	345.9	.00007705	4.25487129
194.00	-56.5	-58.9	.04001	346.1	.00007039	4.25494169
192.20	-57.1	-59.3	.03854	346.1	.00007214	4.25501382
190.50	-57.8	-59.6	.03712	345.9	.00006561	4.25507943
188.70	-58.2	-60.2	.03477	346.2	.00006601	4.25514545
186.90	-58.4	-60.7	.03289	346.8	.00006212	4.25520757
185.20	-58.6	-61.6	.02912	347.3	.00005378	4.25526135
183.30	-58.8	-63.7	.02217	348.0	.00004971	4.25531106
181.70	-58.8	-65.2	.01795	348.9	.00003274	4.25534379
179.80	-59.1	-65.7	.01695	349.6	.00003383	4.25537762
178.00	-59.3	-66.2	.01584	350.2	.00003010	4.25540772
176.40	-59.7	-65.9	.01678	350.4	.00002661	4.25543433
174.60	-60.2	-65.5	.01796	350.7	.00003190	4.25546624
172.40	-60.4	-66.6	.01557	351.6	.00003763	4.25550386
170.30	-60.6	-68.2	.01241	352.4	.00002998	4.25553384
168.30	-60.6	-69.3	.01068	353.6	.00002356	4.25555740

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
166.40	-60.9	-70.0	.00983	354.4	.00001988	4.25557728
164.50	-60.9	-70.9	.00858	355.5	.00001785	4.25559513
162.80	-61.1	-71.2	.00831	356.2	.00001465	4.25560978
161.20	-61.4	-71.8	.00770	356.8	.00001307	4.25562285
159.50	-61.6	-72.2	.00737	357.5	.00001305	4.25563590
157.90	-61.8	-72.7	.00689	358.1	.00001162	4.25564753
156.40	-62.3	-73.2	.00643	358.3	.00001018	4.25565770
154.80	-62.8	-73.4	.00628	358.5	.00001036	4.25566806
153.40	-63.0	-73.5	.00626	359.0	.00000896	4.25567701
151.90	-63.3	-73.4	.00640	359.6	.00000969	4.25568670
150.50	-63.8	-73.2	.00668	359.6	.00000933	4.25569603
149.10	-64.1	-72.9	.00705	360.2	.00000980	4.25570583
147.70	-64.8	-72.2	.00796	359.8	.00001071	4.25571655
146.30	-65.4	-71.9	.00830	359.9	.00001161	4.25572816
145.00	-65.4	-72.2	.00801	360.8	.00001082	4.25573897
143.60	-65.6	-71.9	.00846	361.3	.00001176	4.25575073
142.20	-65.9	-71.4	.00931	361.8	.00001268	4.25576341
140.40	-65.9	-73.0	.00732	363.2	.00001527	4.25577869
138.60	-65.9	-71.9	.00886	364.5	.00001486	4.25579354
136.70	-66.2	-70.5	.01101	365.5	.00001925	4.25581279
135.00	-66.2	-71.2	.01013	366.8	.00001833	4.25583112
133.20	-66.2	-70.9	.01072	368.2	.00001913	4.25585026
131.50	-66.2	-70.7	.01109	369.5	.00001891	4.25586917
129.70	-66.5	-71.1	.01066	370.5	.00001997	4.25588913
128.00	-66.5	-71.1	.01080	371.9	.00001860	4.25590773
126.30	-66.5	-74.8	.00617	373.3	.00001471	4.25592244
124.70	-66.7	-74.8	.00625	374.2	.00001013	4.25593257
123.30	-66.7	-74.8	.00640	375.4	.00000903	4.25594160
121.70	-66.7	-74.4	.00679	376.8	.00001076	4.25595236
120.10	-66.7	-74.9	.00641	378.2	.00001077	4.25596313
118.50	-65.9	-75.7	.00576	381.2	.00000994	4.25597307
116.80	-65.4	-76.5	.00510	383.8	.00000942	4.25598249
114.90	-65.4	-77.2	.00463	385.6	.00000942	4.25599191
113.00	-65.4	-78.9	.00361	387.4	.00000797	4.25599988
111.20	-65.4	-80.3	.00292	389.2	.00000599	4.25600587
109.40	-65.4	-80.9	.00268	391.0	.00000514	4.25601101
107.70	-65.1	-81.4	.00252	393.3	.00000450	4.25601551
105.90	-64.8	-81.5	.00249	395.7	.00000459	4.25602010
104.20	-64.6	-81.7	.00245	398.0	.00000428	4.25602438
102.30	-64.3	-81.9	.00242	400.6	.00000472	4.25602910
100.50	-64.3	-82.2	.00235	402.6	.00000438	4.25603348
98.70	-64.1	-81.7	.00259	405.2	.00000453	4.25603801
97.00	-64.1	-80.9	.00302	407.2	.00000486	4.25604287
95.20	-63.8	-80.7	.00317	409.9	.00000568	4.25604855
93.50	-63.8	-80.6	.00328	412.0	.00000559	4.25605413
91.70	-63.8	-80.6	.00334	414.3	.00000608	4.25606021
90.00	-63.8	-81.0	.00321	416.5	.00000568	4.25606589
88.20	-63.5	-82.1	.00272	419.5	.00000544	4.25607133
86.40	-63.3	-83.1	.00236	422.5	.00000466	4.25607599
84.70	-62.8	-84.6	.00187	425.9	.00000367	4.25607966
82.90	-62.3	-85.0	.00177	429.5	.00000334	4.25608300
81.20	-61.6	-85.3	.00171	433.5	.00000302	4.25608602
79.50	-60.4	-85.5	.00169	438.6	.00000294	4.25608896
77.70	-60.4	-85.8	.00163	441.5	.00000304	4.25609200
76.00	-60.6	-86.2	.00157	443.8	.00000277	4.25609477

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
74.20	-60.9	-85.7	.00174	446.3	.00000304	4.25609781
72.50	-60.2	-85.2	.00195	450.7	.00000320	4.25610101
71.00	-59.5	-85.6	.00185	454.9	.00000291	4.25610392
69.40	-59.1	-87.3	.00141	458.8	.00000265	4.25610657
68.00	-58.6	-87.5	.00138	462.5	.00000198	4.25610855
66.70	-58.2	-87.4	.00144	466.0	.00000186	4.25611041
65.30	-57.8	-86.7	.00166	469.7	.00000221	4.25611262
63.80	-57.3	-86.4	.00180	473.8	.00000264	4.25611526
62.30	-56.9	-86.6	.00178	477.9	.00000273	4.25611798
61.00	-56.5	-86.7	.00178	481.7	.00000235	4.25612034
59.50	-55.9	-87.1	.00172	486.5	.00000267	4.25612301
58.20	-55.5	-87.4	.00165	490.5	.00000222	4.25612523
56.90	-55.1	-87.5	.00165	494.6	.00000218	4.25612740
55.70	-54.9	-87.4	.00172	498.1	.00000206	4.25612946
54.40	-54.5	-88.0	.00159	502.4	.00000219	4.25613165
53.20	-53.9	-87.9	.00166	506.9	.00000198	4.25613363
51.70	-53.9	-88.1	.00163	511.1	.00000252	4.25613615
50.40	-53.5	-88.6	.00154	515.7	.00000210	4.25613825
49.00	-53.2	-88.5	.00162	520.8	.00000225	4.25614050
47.70	-53.0	-88.6	.00162	525.2	.00000215	4.25614265
46.30	-52.6	-88.6	.00167	530.6	.00000234	4.25614499
44.90	-52.6	-88.9	.00165	535.3	.00000237	4.25614735
43.60	-52.6	-88.7	.00174	539.8	.00000224	4.25614959
42.20	-52.4	-88.9	.00175	545.3	.00000249	4.25615208
41.00	-52.2	-89.0	.00177	550.3	.00000215	4.25615422
40.00	-52.2	-89.1	.00177	554.2	.00000180	4.25615603
39.00	-51.5	-88.9	.00190	560.1	.00000186	4.25615789
38.00	-51.1	-88.6	.00204	565.2	.00000200	4.25615989
36.90	-50.6	-88.6	.00210	571.3	.00000231	4.25616220
35.80	-50.2	-88.6	.00216	577.2	.00000238	4.25616458
34.70	-49.9	-88.1	.00244	583.3	.00000258	4.25616716
33.60	-49.4	-88.1	.00252	590.1	.00000277	4.25616993
32.50	-49.0	-88.1	.00260	596.6	.00000286	4.25617279
31.40	-48.7	-88.0	.00275	603.4	.00000300	4.25617579
30.30	-48.5	-88.1	.00279	610.1	.00000310	4.25617889
29.20	-48.3	-88.0	.00296	617.0	.00000322	4.25618210
28.10	-48.0	-87.9	.00314	624.8	.00000341	4.25618552
27.00	-47.8	-87.9	.00327	632.4	.00000359	4.25618911
25.90	-47.7	-87.4	.00370	640.4	.00000390	4.25619301
25.00	-47.3	-87.6	.00368	647.9	.00000338	4.25619639
24.20	-45.4	-88.0	.00357	659.6	.00000295	4.25619934
23.50	-44.6	-88.0	.00367	667.5	.00000258	4.25620192
22.70	-44.3	-88.0	.00380	675.0	.00000304	4.25620496
21.90	-44.0	-88.3*	.00373	682.9	.00000603	4.25621100
21.10	-43.7	-88.1*	.00400	691.1	.00000314	4.25621414
20.40	-43.0	-88.1*	.00414	699.7	.00000291	4.25621705
19.80	-42.7	-87.8	.00455	706.6	.00000265	4.25621970
19.10	-42.4	-88.0	.00452	714.9	.00000323	4.25622293
18.50	-42.1	-87.8	.00487	722.4	.00000286	4.25622579
17.90	-41.4	-87.9	.00493	731.6	.00000300	4.25622879
17.30	-40.8	-88.2	.00478	740.6	.00000297	4.25623176
16.80	-40.5	-88.6	.00461	747.8	.00000238	4.25623414
16.30	-40.1	-88.9	.00454	755.7	.00000232	4.25623646
16.00	-39.8	-89.0	.00452	760.7	.00000139	4.25623785
15.70	-39.5	-89.0	.00461	765.8	.00000139	4.25623924

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
15.30	-39.2	-89.4	.00442	772.4	.00000133	4.25624107
15.00	-38.6	-89.0	.00483	778.7	.00000140	4.25624247
14.70	-38.3	-89.0	.00492	784.1	.00000149	4.25624396
14.40	-38.0	-89.2*	.00480	789.7	.00000148	4.25624543
14.10	-37.8	-89.2*	.00490	795.4	.00000148	4.25624691
13.80	-37.3	-89.4*	.00484	801.8	.00000149	4.25624840
13.50	-36.9	-89.8*	.00462	808.3	.00000145	4.25624985
13.20	-36.6	-89.6*	.00489	814.4	.00000145	4.25625129
13.00	-36.5	-89.2	.00531	818.5	.00000103	4.25625232
12.80	-36.1	-89.5	.00515	823.5	.00000106	4.25625338
12.50	-35.8	-89.5	.00528	830.1	.00000159	4.25625497
12.30	-35.5	-89.8	.00512	834.9	.00000106	4.25625603
12.10	-35.1	-89.8	.00520	840.3	.00000104	4.25625707
11.90	-34.8	-89.4	.00568	845.3	.00000110	4.25625817
11.70	-34.4	-89.2	.00591	850.8	.00000118	4.25625935
11.50	-34.2	-89.5	.00574	856.0	.00000118	4.25626053
11.40	-33.9	-89.8	.00552	859.1	.00000057	4.25626110
11.20	-33.6	-89.9	.00548	864.4	.00000112	4.25626221
11.10	-33.2	-90.0	.00540	868.1	.00000055	4.25626276
11.05	-32.8	-90.0	.00543	870.7	.00000027	4.25626303
11.00	-32.6	-90.3	.00520	872.8	.00000027	4.25626330

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1013.60	27.6	33.2	32.78710	299.6		
999.00	26.6	31.0	29.33770	299.8	.46276450	.46276450
985.20	25.8	25.4	21.21092	300.2	.35590212	.81866662
970.50	23.9	22.3	17.73111	299.6	.29206406	1.11073068
955.80	23.9	23.8	19.76244	300.9	.28120048	1.39193116
941.00	22.6	22.3	18.30333	300.9	.28743424	1.67936540
926.50	21.7	20.8	16.96933	301.3	.26094471	1.94031011
912.50	20.8	19.5	15.79817	301.7	.23405267	2.17436278
899.00	19.9	19.5	16.04152	302.1	.21930315	2.39366592
883.00	18.8	17.0	13.92254	302.6	.24460363	2.63826956
867.00	17.6	13.6	11.39788	302.9	.20669651	2.84496607
851.00	16.6	13.6	11.61618	303.4	.18786918	3.03283525
834.50	15.3	13.6	11.85024	303.7	.19754815	3.23038340
819.20	14.0	13.6	12.07586	304.0	.18676929	3.41715269
804.00	12.5	13.6	12.30868	304.1	.18910380	3.60625648
790.00	11.8	12.6	11.72964	304.8	.17170160	3.77795808
774.00	11.1	10.7	10.53470	305.9	.18174903	3.95970711
761.00	10.2	8.1	8.96431	306.4	.12932968	4.08903679
746.00	9.1	5.0	7.36932	307.0	.12500180	4.21403860
730.00	8.1	4.3	7.17358	307.7	.11871709	4.33275568
715.00	7.1	1.1	5.79527	308.4	.09925100	4.43200669
700.00	5.9	-1.8	4.71645	309.0	.08044653	4.51245321
684.00	5.0	1.7	6.33111	310.1	.09018384	4.60263705
669.50	4.4	-6.6	3.26165	311.3	.07096656	4.67360361
654.80	3.7	-11.0	2.26835	312.5	.04147483	4.71507844
639.00	3.2	-19.3	1.07067	314.1	.02691646	4.74199490
625.00	2.6	-19.8	1.04405	315.4	.01510504	4.75709994
611.00	1.6	-21.9	.87114	316.3	.01367983	4.77077977
598.00	.5	-23.3	.78259	317.0	.01096852	4.78174829
586.00	-.7	-22.2	.88849	317.4	.01023103	4.79197933
573.50	-2.0	-24.1	.75177	317.8	.01046079	4.80244012
560.50	-3.1	-28.7	.48131	318.6	.00817855	4.81061867
547.50	-2.7	-36.0	.22755	321.2	.00470158	4.81532025
535.00	-3.4	-35.4	.24976	322.6	.00304407	4.81836432
521.40	-4.7	-34.7	.27525	323.3	.00364293	4.82200725
509.20	-6.2	-35.4	.26242	323.8	.00334673	4.82535398
498.00	-7.6	-35.1	.27604	324.1	.00307691	4.82843089
487.00	-8.9	-34.4	.30334	324.6	.00325158	4.83168247
475.00	-10.2	-38.0	.21129	325.3	.00315076	4.83483323
463.20	-11.4	-39.7	.17874	326.1	.00234811	4.83718134
452.30	-13.1	-41.7	.14514	326.2	.00180112	4.83898246
442.00	-14.6	-41.9	.14504	326.5	.00152491	4.84050737
431.40	-16.0	-42.6	.13682	327.0	.00152434	4.84203172
420.80	-17.5	-43.0	.13393	327.4	.00146423	4.84349595
410.70	-18.9	-43.9	.12383	327.9	.00132822	4.84482417
400.80	-20.0	-44.9	.11343	328.7	.00119840	4.84602256
390.80	-21.3	-44.8	.11761	329.4	.00117877	4.84720133
380.60	-22.6	-45.6	.10938	330.2	.00118124	4.84838258
370.80	-24.2	-46.2	.10517	330.5	.00107273	4.84945531
361.20	-25.8	-48.3	.08376	330.9	.00092536	4.85038067
352.10	-27.3	-50.3	.06722	331.3	.00070097	4.85108164
343.00	-28.6	-51.0	.06307	332.0	.00060491	4.85168655
334.00	-30.1	-51.2	.06286	332.5	.00057824	4.85226479
325.00	-31.4	-52.7	.05360	333.3	.00053474	4.85279953
316.00	-32.7	-53.2	.05199	334.1	.00048484	4.85328437
306.20	-34.3	-51.3	.06791	335.0	.00059949	4.85388386

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
298.80	-35.2	-40.9	.24197	336.0	.00116992	4.85505378
289.30	-36.5	-38.3	.33362	337.3	.00278981	4.85784359
280.90	-38.4	-39.8	.29120	337.5	.00267778	4.86052138
273.50	-39.8	-45.9	.14732	337.9	.00165562	4.86217700
268.70	-40.9	-47.1	.13040	338.1	.00068012	4.86285712
263.70	-41.9	-54.8	.05091	338.4	.00046252	4.86331964
258.50	-42.7	-57.5	.03656	339.2	.00023204	4.86355168
253.20	-43.8	-58.2	.03397	339.6	.00019071	4.86374238
247.80	-44.9	-58.4	.03344	340.0	.00018570	4.86392808
242.90	-46.1	-59.5	.02960	340.2	.00015758	4.86408566
238.10	-46.9	-60.1	.02800	340.9	.00014105	4.86422671
233.70	-47.9	-60.1	.02827	341.2	.00012630	4.86435302
229.20	-48.8	-59.6	.03107	341.8	.00013623	4.86448924
224.90	-49.5	-60.3	.02882	342.6	.00013137	4.86462061
220.50	-50.0	-59.2	.03385	343.7	.00014068	4.86476129
216.30	-51.3	-58.6	.03759	343.6	.00015309	4.86491439
212.20	-52.3	-58.5	.03867	344.0	.00015953	4.86507392
208.20	-53.4	-59.0	.03688	344.1	.00015420	4.86522812
203.70	-54.4	-59.6	.03464	344.7	.00016421	4.86539233
199.20	-55.6	-59.4	.03644	345.0	.00016318	4.86555551
194.80	-57.1	-59.2	.03832	344.8	.00016782	4.86572333
190.50	-57.9	-59.6	.03738	345.6	.00016607	4.86588940
186.20	-59.5	-61.3	.03021	345.3	.00014828	4.86603768
182.10	-60.0	-63.2	.02391	346.8	.00011320	4.86615089
178.30	-60.2	-65.4	.01776	348.5	.00008079	4.86623168
174.60	-60.4	-66.3	.01598	350.2	.00006369	4.86629537
171.00	-60.9	-66.8	.01522	351.5	.00005729	4.86635266
167.40	-61.7	-66.3	.01666	352.5	.00005855	4.86641121
164.00	-62.1	-66.2	.01717	353.7	.00005870	4.86646990
160.50	-62.6	-65.8	.01862	355.1	.00006390	4.86653380
157.10	-63.2	-66.4	.01758	356.4	.00006278	4.86659658
153.70	-63.7	-67.5	.01517	357.7	.00005680	4.86665338
150.20	-63.7	-68.7	.01307	360.1	.00005043	4.86670381
146.70	-64.2	-67.8	.01543	361.6	.00005089	4.86675470
143.40	-64.7	-68.0	.01516	363.0	.00005148	4.86680618
140.00	-64.5	-68.2	.01506	366.0	.00005241	4.86685859
137.30	-64.5	-68.0	.01583	368.0	.00004254	4.86690113
134.60	-64.5	-69.4	.01316	370.1	.00003994	4.86694106
131.80	-64.5	-69.7	.01289	372.3	.00003721	4.86697827
129.00	-64.7	-69.8	.01303	374.2	.00003701	4.86701529
126.20	-65.3	-70.1	.01277	375.5	.00003685	4.86705214
123.50	-66.1	-69.8	.01361	376.3	.00003634	4.86708848
120.70	-66.4	-73.1	.00845	378.3	.00003152	4.86712000
117.90	-66.4	-72.0	.01023	380.8	.00002669	4.86714669
115.10	-66.4	-70.8	.01260	383.5	.00003260	4.86717929
112.30	-67.6	-69.6	.01544	384.0	.00004005	4.86721934
109.60	-68.2	-69.6	.01582	385.6	.00004306	4.86726241
106.80	-66.1	-69.6	.01624	392.3	.00004579	4.86730820
104.00	-63.7	-71.7	.01211	399.9	.00004050	4.86734870
101.60	-62.6	-73.5	.00949	404.6	.00002645	4.86737515
99.20	-62.4	-75.0	.00769	407.9	.00002103	4.86739618
96.90	-62.4	-75.3	.00750	410.6	.00001782	4.86741400
94.50	-62.4	-75.7	.00724	413.5	.00001805	4.86743204
92.20	-62.1	-76.4	.00656	417.0	.00001618	4.86744823
89.80	-62.1	-76.1	.00708	420.1	.00001669	4.86746491

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
87.50	-62.1	-76.4	.00691	423.3	.00001641	4.86748132
85.20	-62.4	-76.4	.00710	426.0	.00001642	4.86749774
83.00	-62.4	-76.4	.00737	429.2	.00001623	4.86751397
80.80	-62.4	-76.2	.00776	432.5	.00001699	4.86753096
78.50	-62.4	-76.2	.00799	436.1	.00001848	4.86754943
76.30	-62.4	-75.8	.00875	439.6	.00001878	4.86756821
74.20	-62.1	-76.5	.00804	443.7	.00001799	4.86758620
72.10	-60.7	-79.8	.00491	450.4	.00001387	4.86760007
69.70	-59.5	-80.3	.00466	457.3	.00001171	4.86761178
67.60	-58.2	-81.3	.00408	464.2	.00000936	4.86762114
65.50	-57.7	-82.0	.00372	469.4	.00000834	4.86762948
63.50	-57.3	-82.8	.00338	474.5	.00000723	4.86763671
61.50	-56.7	-83.5	.00310	480.3	.00000660	4.86764331
59.70	-56.0	-84.3	.00279	485.8	.00000539	4.86764871
57.70	-55.8	-85.2	.00245	491.0	.00000533	4.86765404
55.80	-55.6	-85.7	.00231	496.2	.00000460	4.86765864
54.00	-55.4	-85.8	.00234	501.4	.00000426	4.86766291
52.20	-54.4	-86.0	.00238	508.6	.00000432	4.86766723
50.30	-54.2	-86.3	.00233	514.5	.00000454	4.86767177
48.70	-53.8	-85.8	.00260	520.2	.00000401	4.86767578
47.20	-53.4	-86.3	.00248	525.8	.00000387	4.86767966
45.50	-53.0	-86.7	.00238	532.3	.00000420	4.86768386
44.00	-53.2	-87.1	.00231	536.9	.00000358	4.86768743
42.60	-52.8	-87.2	.00234	542.9	.00000332	4.86769076
41.20	-52.4	-85.3	.00337	549.0	.00000407	4.86769482
40.00	-52.3	-85.4	.00341	554.1	.00000414	4.86769897
38.80	-51.9	-85.6	.00338	560.0	.00000416	4.86770312
37.50	-51.5	-86.4	.00306	566.4	.00000426	4.86770739
36.30	-51.3	-86.3	.00322	572.1	.00000384	4.86771123
35.30	-50.8	-85.5	.00379	578.2	.00000358	4.86771481
34.30	-50.4	-86.2	.00348	583.9	.00000370	4.86771850
33.00	-50.0	-86.5	.00341	591.3	.00000456	4.86772306
31.60	-49.9	-86.6	.00349	599.2	.00000492	4.86772798
30.30	-50.0	-86.6	.00364	605.9	.00000472	4.86773270
28.90	-49.5	-86.3	.00405	615.6	.00000548	4.86773819
27.60	-48.6	-87.3	.00354	626.2	.00000502	4.86774321
26.40	-47.9	-87.8	.00340	636.2	.00000425	4.86774746
25.20	-47.1	-88.3	.00327	647.2	.00000408	4.86775154
24.00	-46.2	-88.6	.00321	658.7	.00000396	4.86775550
22.90	-46.1	-87.9	.00384	668.0	.00000395	4.86775945
21.80	-45.6	-87.5	.00430	679.0	.00000456	4.86776401
20.90	-45.3	-87.4	.00458	688.2	.00000407	4.86776808
20.00	-44.9	-87.4	.00478	697.9	.00000429	4.86777237
19.10	-44.6	-87.5	.00491	708.1	.00000444	4.86777681
18.40	-44.4	-87.7	.00499	716.2	.00000353	4.86778034
17.70	-44.0	-88.0	.00486	725.7	.00000352	4.86778386
17.00	-43.6	-87.8	.00529	735.2	.00000362	4.86778748
16.40	-43.3	-87.7	.00559	743.8	.00000332	4.86779080
15.90	-42.9	-88.0	.00541	751.9	.00000280	4.86779360
15.40	-41.8	-88.6	.00501	762.4	.00000265	4.86779626
15.00	-41.5	-89.3	.00459	769.2	.00000195	4.86779821
14.50	-41.3	-89.9	.00422	777.1	.00000224	4.86780044
14.00	-41.3	-90.8	.00368	785.0	.00000201	4.86780246
13.50	-41.3	-91.1	.00362	793.2	.00000185	4.86780430
13.05	-41.2	-91.0	.00385	801.4	.00000171	4.86780602

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
961.50	20.9	5.6	5.95087	297.4		
951.80	20.2	5.6	6.01210	297.5	.05920425	.05920425
941.80	19.1	3.6	5.24352	297.3	.05742639	.11663064
931.90	18.1	3.6	5.29970	297.2	.05325377	.16988441
922.00	16.7	3.6	5.35709	296.7	.05382743	.22371185
912.20	15.2	3.6	5.41515	296.0	.05386098	.27757283
902.20	13.7	4.2	5.74908	295.4	.05696012	.33453295
892.30	12.4	3.6	5.53699	295.0	.05700596	.39153890
882.20	11.8	3.6	5.60095	295.3	.05739425	.44893319
872.20	10.8	2.9	5.41440	295.3	.05620052	.50513367
859.00	10.1	2.3	5.24753	295.8	.07180454	.57693821
845.00	9.0	2.9	5.59025	296.0	.07741241	.65435062
833.00	8.1	2.3	5.41275	296.3	.06736501	.72171563
820.00	7.3	2.9	5.76226	296.8	.07411966	.79583529
807.00	6.4	2.9	5.85596	297.3	.07705931	.87289460
796.00	6.0	2.9	5.93766	298.0	.06618840	.93908300
785.00	5.7	1.6	5.49262	298.8	.06414926	1.00323226
774.00	5.1	1.0	5.33764	299.4	.06078182	1.06401408
765.00	5.1	1.6	5.63752	300.4	.05039592	1.11441000
755.00	5.3	-.1	5.02573	301.7	.05440409	1.16881409
747.00	4.5	-1.2	4.62499	301.8	.03939050	1.20820460
737.00	3.7	-1.8	4.48765	302.1	.04649289	1.25469749
727.00	3.0	-1.8	4.54983	302.5	.04610944	1.30080692
716.00	2.1	-2.8	4.23648	302.9	.04931073	1.35011765
706.00	1.4	-3.3	4.11628	303.3	.04261594	1.39273359
696.00	.5	-3.8	4.00238	303.5	.04142156	1.43415515
686.00	-.5	-3.8	4.06111	303.6	.04114006	1.47529522
677.00	-1.1	-4.3	3.95502	304.2	.03680858	1.51210380
668.00	-2.0	-4.7	3.84842	304.3	.03583199	1.54793578
659.00	-2.7	-5.2	3.75364	304.7	.03490728	1.58284307
651.00	-3.5	-6.1	3.51349	304.9	.02966161	1.61250468
643.00	-4.0	-7.4	3.18597	305.3	.02734460	1.63984928
636.00	-3.9	-22.2	.81841	306.5	.01430127	1.65415055
627.00	-3.9	-25.7	.58758	307.7	.00645605	1.66060659
620.00	-3.9	-27.1	.51186	308.7	.00392656	1.66453315
611.00	-4.1	-27.8	.48299	309.7	.00456817	1.66910133
602.00	-4.5	-27.7	.49919	310.5	.00451002	1.67361134
594.00	-4.9	-28.4	.47102	311.3	.00396001	1.67757136
585.00	-5.5	-29.9	.40989	312.0	.00404495	1.68161631
577.00	-6.0	-31.0	.37028	312.6	.00318433	1.68480064
569.00	-6.6	-32.2	.33050	313.1	.00286031	1.68766095
560.00	-7.3	-33.2	.30148	313.8	.00290194	1.69056289
552.00	-7.8	-33.9	.28370	314.5	.00238846	1.69295135
545.00	-8.3	-35.1	.25181	315.0	.00191252	1.69486337
537.00	-9.2	-35.0	.25933	315.3	.00208625	1.69695012
530.00	-10.1	-33.2	.31855	315.4	.00206384	1.69901396
521.90	-11.0	-33.5	.31391	315.7	.00261375	1.70162772
515.00	-11.4	-34.4	.28654	316.5	.00211380	1.70374152
508.20	-11.9	-36.1	.24120	317.0	.00183091	1.70557243
501.60	-12.5	-40.5	.14989	317.5	.00131693	1.70688936
495.00	-13.0	-40.5	.15189	318.1	.00101621	1.70790558
488.20	-13.6	-40.6	.15214	318.5	.00105481	1.70896038
481.50	-14.1	-41.8	.13471	319.2	.00098056	1.70994094
474.80	-14.7	-42.3	.12861	319.7	.00090010	1.71084104
467.90	-15.4	-33.1	.36628	320.3	.00174220	1.71258324
461.00	-16.2	-33.1	.37177	320.5	.00259821	1.71518146

WASHINGTON,D.C. 9/15/64 1430Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
454.00	-17.2	-33.8	.35004	320.7	.00257786	1.71775931
448.20	-18.1	-34.3	.33421	320.8	.00202481	1.71978413
442.00	-19.0	-35.2	.30619	320.9	.00202574	1.72180986
435.00	-19.9	-36.4	.27393	321.3	.00207183	1.72388169
428.80	-20.9	-37.2	.25598	321.4	.00167622	1.72555791
422.20	-21.7	-37.9	.23972	321.7	.00166918	1.72722709
415.80	-22.6	-38.4	.23087	322.0	.00153662	1.72876371
409.20	-23.5	-39.2	.21412	322.3	.00149842	1.73026213
403.00	-24.4	-40.0	.19870	322.6	.00130585	1.73156798
397.00	-25.2	-41.5	.16949	322.8	.00112709	1.73269507
391.00	-26.1	-43.0	.14544	323.0	.00096406	1.73365913
385.00	-26.9	-43.0	.14771	323.5	.00089739	1.73455653
379.20	-27.8	-45.3	.11362	323.7	.00077331	1.73532984
373.70	-28.6	-47.7	.08654	324.0	.00056167	1.73589151
367.50	-29.2	-48.9	.07654	324.7	.00051588	1.73640738
361.20	-30.0	-50.6	.06313	325.3	.00044894	1.73685633
355.20	-30.8	-52.5	.05017	325.8	.00034684	1.73720317
349.60	-31.5	-53.8	.04339	326.2	.00026731	1.73747048
344.00	-32.5	-54.7	.03950	326.5	.00023681	1.73770729
338.80	-33.3	-53.2	.04853	326.8	.00023353	1.73794082
333.30	-34.2	-52.1	.05685	327.1	.00029568	1.73823650
328.80	-35.3	-51.7	.06002	326.8	.00026830	1.73850480
322.80	-36.4	-51.3	.06435	327.0	.00038072	1.73888552
317.30	-37.2	-50.7	.07040	327.5	.00037812	1.73926364
312.20	-38.1	-51.4	.06587	327.8	.00035457	1.73961821
307.80	-38.8	-52.7	.05674	328.2	.00027525	1.73989347
302.40	-39.9	-52.9	.05602	328.2	.00031067	1.74020414
297.00	-40.8	-52.4	.06126	328.7	.00032312	1.74052726
291.90	-41.7	-53.3	.05518	329.0	.00030299	1.74083024
286.80	-42.5	-55.1	.04464	329.6	.00025974	1.74108998
281.80	-43.2	-55.4	.04409	330.2	.00022635	1.74131633
276.80	-44.3	-55.6	.04357	330.3	.00022364	1.74153997
271.90	-45.4	-55.7	.04391	330.4	.00021870	1.74175867
267.00	-46.4	-56.0	.04299	330.7	.00021724	1.74197592
262.00	-47.5	-56.9	.03892	330.8	.00020894	1.74218486
257.00	-48.3	-57.8	.03526	331.4	.00018923	1.74237409
251.80	-48.9	-57.9	.03528	332.6	.00018713	1.74256122
246.70	-49.9	-57.9	.03601	333.0	.00018547	1.74274670
241.80	-50.9	-58.5	.03397	333.4	.00017494	1.74292164
237.20	-52.2	-59.8	.02929	333.3	.00014846	1.74307010
232.70	-53.0	-59.7	.03015	334.0	.00013646	1.74320656
228.50	-53.9	-59.9	.02981	334.3	.00012849	1.74333505
224.30	-53.9	-60.7	.02727	336.1	.00012232	1.74345738
220.00	-53.5	-62.5	.02173	338.5	.00010750	1.74356487
215.60	-53.5	-63.9	.01817	340.5	.00008959	1.74365446
211.20	-54.1	-65.0	.01596	341.6	.00007661	1.74373107
206.50	-54.3	-65.2	.01583	343.5	.00007622	1.74380729
202.20	-54.9	-66.1	.01416	344.6	.00006579	1.74387307
198.00	-54.5	-66.9	.01291	347.3	.00005801	1.74393108
193.80	-54.3	-68.5	.01048	349.8	.00005011	1.74398120
189.70	-54.5	-69.4	.00931	351.6	.00004140	1.74402259
185.70	-54.7	-70.1	.00863	353.4	.00003661	1.74405921
181.70	-54.5	-71.4	.00731	356.0	.00003251	1.74409172
177.90	-54.7	-71.7	.00713	357.8	.00002798	1.74411970
173.90	-55.1	-72.3	.00659	359.5	.00002798	1.74414769

WASHINGTON,D.C. 9/15/64 1430Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
169.60	-55.7	-72.4	.00667	361.1	.00002909	1.74417678
165.70	-56.3	-72.7	.00652	362.5	.00002626	1.74420303
162.00	-56.5	-73.0	.00637	364.5	.00002433	1.74422736
158.30	-56.9	-73.3	.00622	366.2	.00002377	1.74425113
155.00	-57.1	-73.5	.00620	368.1	.00002091	1.74427204
151.50	-57.1	-73.3	.00650	370.5	.00002268	1.74429472
148.10	-56.9	-74.1	.00590	373.2	.00002150	1.74431622
144.70	-56.7	-74.6	.00562	376.1	.00001998	1.74433620
141.60	-57.1	-74.7	.00560	377.7	.00001775	1.74435395
138.60	-58.2	-75.2	.00532	378.1	.00001670	1.74437065
135.30	-58.6	-75.4	.00525	380.0	.00001778	1.74438843
132.00	-59.2	-75.6	.00524	381.5	.00001766	1.74440609
128.80	-59.7	-75.5	.00544	383.4	.00001743	1.74442352
125.70	-60.4	-75.8	.00530	384.9	.00001699	1.74444051
122.70	-60.8	-75.9	.00536	386.7	.00001632	1.74445683
119.70	-60.8	-76.1	.00529	389.4	.00001630	1.74447313
116.80	-60.8	-76.1	.00543	392.2	.00001585	1.74448898
114.00	-60.8	-76.3	.00542	394.9	.00001548	1.74450447
111.30	-60.8	-76.7	.00520	397.6	.00001462	1.74451908
108.60	-60.8	-77.5	.00473	400.4	.00001368	1.74453276
107.00	-60.8	-78.5	.00408	402.1	.00000720	1.74453996
103.40	-61.0	-78.6	.00411	405.6	.00001504	1.74455500
100.70	-61.8	-78.8	.00410	407.3	.00001131	1.74456631
98.20	-62.5	-79.2	.00398	408.9	.00001030	1.74457660
95.50	-63.0	-79.2	.00403	411.2	.00001103	1.74458763
92.80	-63.7	-79.3	.00409	413.1	.00001118	1.74459881
90.20	-64.0	-79.4	.00415	415.9	.00001092	1.74460973
87.60	-63.0	-80.8	.00343	421.5	.00001004	1.74461977
85.20	-62.0	-82.1	.00284	426.8	.00000766	1.74462743
82.70	-61.5	-81.5	.00321	431.4	.00000770	1.74463513
80.30	-61.0	-82.2	.00292	436.0	.00000750	1.74464263
78.10	-60.8	-83.4	.00246	440.0	.00000603	1.74464867
75.80	-60.4	-83.2	.00262	444.7	.00000596	1.74465463
73.70	-59.2	-83.2	.00270	450.6	.00000569	1.74466032
71.60	-59.0	-84.5	.00222	454.8	.00000526	1.74466558
69.40	-58.4	-84.8	.00217	460.3	.00000492	1.74467050
67.30	-57.7	-85.4	.00204	465.8	.00000452	1.74467501
65.20	-57.1	-85.9	.00192	471.4	.00000425	1.74467926
63.20	-56.3	-85.3	.00222	477.4	.00000422	1.74468347
61.20	-56.3	-85.3	.00229	481.8	.00000459	1.74468806
59.20	-56.3	-85.9	.00212	486.4	.00000449	1.74469255
57.30	-56.3	-86.6	.00195	491.0	.00000393	1.74469648
55.40	-56.3	-86.4	.00205	495.7	.00000387	1.74470036
53.60	-56.1	-86.3	.00217	500.9	.00000387	1.74470423
51.80	-56.1	-87.1	.00195	505.8	.00000377	1.74470800
50.00	-56.1	-87.1	.00202	510.9	.00000364	1.74471164
48.40	-55.7	-87.1	.00209	516.7	.00000335	1.74471499
46.70	-55.3	-86.9	.00225	522.9	.00000376	1.74471875
45.20	-55.1	-87.1	.00224	528.3	.00000343	1.74472217
43.60	-54.7	-87.3	.00223	534.7	.00000364	1.74472581
42.20	-54.1	-87.6	.00221	541.2	.00000316	1.74472897
40.80	-53.5	-88.3	.00201	547.8	.00000301	1.74473198
39.50	-53.3	-88.0	.00217	553.4	.00000277	1.74473475
38.20	-53.0	-87.8	.00234	559.7	.00000298	1.74473773
36.80	-52.6	-88.2	.00228	566.6	.00000329	1.74474102

WASHINGTON,D.C. 9/15/64 1430Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
35.50	-51.5	-88.8	.00212	575.3	.00000291	1.74474393
34.10	-51.1	-88.5	.00231	582.9	.00000316	1.74474709
32.60	-50.8	-88.9	.00226	591.4	.00000349	1.74475057
31.30	-50.4	-88.8	.00241	599.3	.00000308	1.74475366
29.90	-50.1	-89.4	.00225	608.1	.00000332	1.74475698
28.50	-50.4	-88.8	.00264	615.6	.00000349	1.74476047
27.20	-50.2	-89.1	.00259	624.3	.00000347	1.74476394
25.80	-50.1	-89.8	.00244	634.3	.00000359	1.74476753
24.50	-49.7	-90.0	.00245	644.8	.00000323	1.74477077
23.20	-49.0	-90.3	.00247	656.9	.00000326	1.74477403
21.90	-48.3	-90.9	.00232	669.8	.00000317	1.74477720
20.80	-47.7	-91.6	.00215	681.8	.00000250	1.74477971
19.90	-47.0	-92.3	.00197	692.5	.00000189	1.74478160
19.00	-46.4	-92.5	.00201	703.7	.00000182	1.74478342
18.30	-45.7	-92.6	.00203	713.3	.00000143	1.74478485
17.60	-45.1	-92.6	.00211	723.4	.00000148	1.74478632
17.00	-44.3	-93.6	.00180	733.1	.00000119	1.74478751
16.30	-43.8	-93.6	.00187	743.4	.00000130	1.74478881
15.70	-43.1	-93.0	.00218	754.0	.00000124	1.74479005
15.20	-43.1	-93.5	.00207	761.0	.00000107	1.74479112
14.70	-43.5	-93.9	.00196	766.8	.00000101	1.74479213
14.20	-43.8	-94.6	.00180	773.3	.00000095	1.74479309
13.80	-42.9	-95.1	.00169	782.8	.00000070	1.74479379
13.40	-42.9	-95.4	.00163	789.4	.00000067	1.74479446
13.10	-42.9	-95.7	.00156	794.5	.00000048	1.74479493
12.80	-42.9	-95.9	.00155	799.8	.00000046	1.74479540
12.50	-42.9	-96.1	.00153	805.2	.00000046	1.74479586
12.30	-42.9	-96.2	.00151	809.0	.00000030	1.74479616

WASHINGTON, D.C. 10/13/64 1520Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1017.40	16.6	3.4	4.79492	288.3		
998.00	16.4	2.5	4.57735	289.7	.09276599	.09276599
982.00	16.2	.3	3.99045	290.9	.06994091	.16270690
968.00	15.7	-.1	3.93220	291.6	.05659012	.21929702
952.00	15.2	-.1	3.99872	292.4	.06474195	.28403898
937.00	14.0	-.1	4.06315	292.6	.06169771	.34573668
921.00	12.7	-.8	3.87350	292.7	.06478870	.41052538
906.00	11.5	-1.2	3.81172	292.8	.05881518	.46934056
891.00	10.0	-2.0	3.64102	292.7	.05703598	.52637655
876.00	11.6	-2.7	3.48468	295.7	.05453320	.58090974
860.00	10.5	-5.4	2.81716	296.2	.05144337	.63235311
844.00	9.6	-14.2	1.31569	296.8	.03373736	.66609047
828.00	8.5	-20.8	.71738	297.3	.01659645	.68268692
812.00	7.3	-21.0	.71928	297.7	.01172780	.69441472
797.00	6.9	-18.7	.91604	298.8	.01251511	.70692983
781.00	6.4	-15.9	1.21191	300.0	.01737089	.72430073
765.00	5.7	-17.3	1.08360	301.0	.01873873	.74303946
748.00	4.9	-16.7	1.17258	302.2	.01956880	.76260826
733.00	4.2	-14.6	1.42553	303.1	.01988342	.78249168
719.00	3.1	-15.1	1.42517	303.5	.02036209	.80285378
705.00	2.1	-15.1	1.45354	304.2	.02056213	.82341591
691.00	1.1	-15.5	1.42459	304.8	.02055795	.84397386
677.00	-.1	-15.9	1.39850	305.2	.02016480	.86413866
664.00	-1.4	-15.9	1.42594	305.5	.01873343	.88287209
650.00	-2.3	-16.1	1.42958	306.3	.02039650	.90326859
637.00	-3.5	-17.7	1.25490	306.7	.01780516	.92107375
623.50	-4.6	-20.8	.95304	307.4	.01520766	.93628141
610.00	-5.6	-23.4	.75397	308.1	.01175743	.94803885
596.00	-6.9	-24.8	.67388	308.7	.01019892	.95823777
582.00	-8.6	-27.3	.53372	308.8	.00862569	.96686345
573.00	-10.0	-25.4	.66079	308.6	.00548495	.97234841
566.00	-10.7	-24.8	.70964	308.8	.00489435	.97724275
559.00	-11.6	-26.8	.58730	308.8	.00463192	.98187467
553.00	-12.2	-28.1	.51753	309.0	.00338212	.98525679
546.00	-13.1	-28.5	.50342	309.1	.00364621	.98890300
539.50	-14.0	-28.4	.51646	309.1	.00338222	.99228522
533.00	-14.9	-28.4	.52276	309.2	.00344636	.99573158
525.20	-15.6	-30.3	.43612	309.6	.00381595	.99954753
517.60	-16.0	-31.5	.39029	310.4	.00320444	1.00275196
510.20	-16.6	-32.3	.36341	310.9	.00284556	1.00559752
503.80	-17.1	-31.5	.40099	311.5	.00249596	1.00809348
497.20	-17.6	-27.3	.62484	312.0	.00345430	1.01154777
490.80	-18.2	-28.3	.57553	312.4	.00391956	1.01546733
484.60	-18.8	-29.2	.53095	312.8	.00350007	1.01896740
478.40	-19.4	-30.3	.47882	313.2	.00319417	1.02216157
472.50	-19.9	-30.7	.46663	313.7	.00284597	1.02500755
466.90	-20.6	-30.8	.46646	314.0	.00266594	1.02767348
461.00	-21.4	-31.1	.45493	314.1	.00277355	1.03044704
455.30	-22.3	-31.7	.43293	314.1	.00258204	1.03302908
449.70	-23.2	-32.1	.42247	314.1	.00244401	1.03547309
443.00	-23.8	-32.1	.42887	314.7	.00291018	1.03838328
437.00	-24.5	-32.7	.40918	315.0	.00256543	1.04094870
431.00	-25.3	-33.1	.39552	315.3	.00246334	1.04341204
425.00	-26.0	-33.2	.39631	315.6	.00242394	1.04583599
419.00	-26.9	-33.1	.40685	315.7	.00245865	1.04829463
413.00	-27.7	-34.1	.37113	316.1	.00238156	1.05067620

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
407.00	-28.6	-35.2	.33562	316.2	.00216348	1.05283968
401.00	-29.3	-35.5	.32921	316.6	.00203519	1.05487487
395.40	-30.0	-37.3	.27349	317.0	.00172199	1.05659686
389.80	-30.7	-39.9	.20802	317.3	.00137572	1.05797258
383.80	-31.8	-39.2	.22742	317.4	.00133297	1.05930555
378.00	-32.6	-37.1	.29237	317.7	.00153814	1.06084369
372.00	-33.2	-36.2	.32809	318.3	.00189936	1.06274305
366.40	-34.3	-37.4	.29189	318.3	.00177136	1.06451441
362.10	-35.1	-38.4	.26516	318.3	.00122209	1.06573650
357.00	-36.2	-38.8	.25501	318.1	.00135349	1.06708999
351.90	-37.0	-40.0	.22571	318.3	.00125083	1.06834082
346.60	-37.7	-41.2	.20046	318.8	.00115238	1.06949320
341.20	-38.5	-43.8	.15082	319.0	.00096779	1.07046099
336.20	-39.2	-46.2	.11549	319.4	.00067934	1.07114033
331.00	-40.3	-47.2	.10358	319.3	.00058120	1.07172154
326.10	-41.5	-47.9	.09743	319.1	.00050253	1.07222407
321.00	-42.2	-48.6	.09004	319.5	.00048780	1.07271187
315.90	-43.0	-50.2	.07580	319.9	.00043152	1.07314339
310.60	-43.9	-52.3	.05931	320.2	.00036535	1.07350874
305.60	-44.8	-52.6	.05753	320.4	.00029807	1.07380681
300.00	-45.9	-53.6	.05190	320.6	.00031266	1.07411946
294.70	-46.7	-53.9	.05088	321.1	.00027792	1.07439739
289.40	-47.5	-54.5	.04808	321.6	.00026761	1.07466500
284.10	-48.3	-55.1	.04543	322.1	.00025287	1.07491787
279.00	-49.2	-55.5	.04371	322.6	.00023195	1.07514982
274.00	-50.0	-56.0	.04167	323.0	.00021780	1.07536761
269.00	-50.9	-57.6	.03442	323.5	.00019410	1.07556172
264.00	-51.1	-58.5	.03094	324.9	.00016674	1.07572846
259.00	-51.2	-60.1	.02544	326.5	.00014383	1.07587229
254.20	-51.6	-61.8	.02080	327.7	.00011323	1.07598552
249.50	-51.9	-62.9	.01818	328.9	.00009346	1.07607898
245.00	-52.5	-63.9	.01599	329.8	.00007844	1.07615742
240.30	-52.8	-64.1	.01579	331.1	.00007620	1.07623363
235.90	-53.0	-64.2	.01592	332.6	.00007118	1.07630481
231.60	-53.6	-65.4	.01380	333.5	.00006519	1.07637000
227.30	-53.8	-66.5	.01191	335.0	.00005639	1.07642639
223.30	-54.1	-68.2	.00953	336.1	.00004373	1.07647012
219.30	-54.7	-69.2	.00830	337.0	.00003637	1.07650650
215.40	-55.3	-69.6	.00805	337.8	.00003254	1.07653904
211.70	-55.3	-69.8	.00790	339.5	.00003010	1.07656914
207.80	-55.5	-71.3	.00641	341.0	.00002846	1.07659760
204.10	-55.7	-72.1	.00580	342.5	.00002302	1.07662062
200.20	-55.7	-73.1	.00509	344.3	.00002165	1.07664227
196.30	-55.9	-72.7	.00556	346.0	.00002117	1.07666345
192.40	-56.7	-73.3	.00515	346.7	.00002129	1.07668474
188.60	-56.9	-73.7	.00490	348.4	.00001946	1.07670420
184.80	-56.9	-74.9	.00420	350.4	.00001763	1.07672183
181.20	-57.7	-74.6	.00448	351.0	.00001593	1.07673776
177.70	-58.5	-74.9	.00437	351.6	.00001578	1.07675354
174.10	-57.9	-75.6	.00395	354.7	.00001527	1.07676882
170.40	-57.3	-75.5	.00410	357.9	.00001518	1.07678400
166.80	-57.9	-76.6	.00353	359.1	.00001399	1.07679799
163.30	-58.5	-76.8	.00349	360.2	.00001252	1.07681051
159.80	-59.0	-76.9	.00351	361.7	.00001249	1.07682300
156.50	-59.4	-78.1	.00298	363.2	.00001092	1.07683392

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
153.10	-59.6	-77.6	.00326	365.1	.00001083	1.07684475
149.80	-59.8	-78.6	.00286	367.0	.00001030	1.07685505
146.50	-59.2	-79.5	.00253	370.4	.00000907	1.07686412
143.20	-58.5	-79.7	.00250	374.0	.00000846	1.07687259
140.10	-58.7	-79.6	.00260	375.9	.00000806	1.07688065
136.80	-59.4	-79.5	.00271	377.4	.00000894	1.07688959
133.80	-59.6	-79.5	.00278	379.4	.00000839	1.07689798
130.70	-59.8	-79.9	.00264	381.5	.00000855	1.07690653
127.70	-59.8	-80.1	.00260	384.1	.00000802	1.07691455
124.60	-59.6	-80.4	.00257	387.2	.00000817	1.07692271
121.60	-60.3	-81.2	.00230	388.7	.00000744	1.07693015
118.50	-60.7	-81.8	.00213	390.7	.00000699	1.07693714
115.60	-61.4	-81.6	.00227	392.3	.00000651	1.07694365
113.70	-62.1	-82.8	.00188	392.8	.00000401	1.07694766
109.80	-62.1	-82.4	.00207	396.8	.00000784	1.07695550
107.00	-61.9	-81.9	.00231	400.1	.00000626	1.07696176
104.40	-61.6	-83.8	.00171	403.4	.00000532	1.07696708
101.90	-61.4	-84.8	.00149	406.7	.00000407	1.07697114
99.40	-61.2	-84.5	.00160	410.0	.00000392	1.07697506
97.00	-60.9	-83.8	.00184	413.3	.00000420	1.07697926
94.50	-60.9	-84.1	.00180	416.4	.00000463	1.07698390
92.20	-60.9	-84.4	.00176	419.3	.00000417	1.07698807
89.70	-60.7	-85.2	.00157	423.1	.00000425	1.07699232
87.30	-60.5	-85.7	.00150	426.9	.00000374	1.07699606
85.00	-60.0	-86.0	.00146	431.0	.00000346	1.07699952
82.50	-59.8	-86.0	.00150	435.2	.00000377	1.07700329
80.20	-59.6	-86.7	.00135	439.1	.00000335	1.07700664
77.80	-59.6	-86.1	.00155	443.0	.00000356	1.07701020
75.50	-59.6	-86.2	.00156	446.8	.00000365	1.07701385
73.60	-59.6	-87.3	.00132	450.0	.00000279	1.07701664
71.60	-59.4	-87.6	.00129	454.1	.00000265	1.07701929
69.70	-59.6	-87.6	.00132	457.1	.00000252	1.07702181
67.70	-60.0	-88.1	.00125	460.0	.00000261	1.07702442
65.80	-60.0	-88.3	.00124	463.7	.00000241	1.07702683
64.00	-59.6	-88.5	.00124	468.4	.00000228	1.07702911
62.10	-59.0	-88.5	.00128	473.9	.00000244	1.07703155
60.20	-58.3	-88.6	.00128	479.5	.00000247	1.07703403
58.30	-57.9	-88.6	.00132	484.9	.00000252	1.07703654
56.60	-57.3	-88.6	.00136	490.4	.00000232	1.07703887
54.80	-56.9	-88.6	.00141	495.9	.00000253	1.07704140
53.10	-56.3	-88.8	.00141	501.8	.00000244	1.07704385
51.40	-56.1	-88.8	.00146	506.9	.00000247	1.07704632
49.70	-56.1	-89.0	.00146	511.8	.00000252	1.07704884
48.20	-56.3	-89.3	.00141	515.8	.00000219	1.07705103
46.70	-56.5	-89.8	.00133	520.0	.00000209	1.07705311
45.10	-56.1	-90.0	.00133	526.2	.00000216	1.07705528
43.60	-53.8	-90.0	.00137	537.0	.00000206	1.07705733
42.20	-53.9	-90.2	.00137	541.5	.00000195	1.07705928
40.80	-54.1	-90.4	.00137	546.3	.00000195	1.07706124
39.70	-54.7	-90.8	.00132	549.1	.00000151	1.07706274
38.30	-55.1	-91.0	.00132	553.8	.00000188	1.07706462
37.10	-55.1	-90.8	.00141	558.9	.00000167	1.07706629
35.80	-54.9	-91.0	.00141	565.1	.00000186	1.07706815
34.60	-54.7	-91.0	.00146	571.2	.00000174	1.07706989
33.30	-54.1	-91.7	.00131	578.9	.00000183	1.07707173

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
32.20	-53.8	-91.9	.00131	585.5	.00000146	1.07707319
31.00	-53.6	-91.9	.00136	592.4	.00000162	1.07707481
29.70	-53.2	-91.9	.00142	600.7	.00000183	1.07707664
28.60	-52.8	-92.1	.00142	608.3	.00000158	1.07707822
27.30	-52.1	-92.1	.00149	618.4	.00000192	1.07708015
26.20	-51.6	-92.1	.00155	627.3	.00000170	1.07708184
25.10	-51.1	-92.3	.00156	636.5	.00000173	1.07708357
24.00	-50.5	-93.0	.00145	646.2	.00000167	1.07708524
22.90	-50.0	-93.8	.00128	656.5	.00000152	1.07708676
21.80	-49.5	-93.4	.00147	667.3	.00000153	1.07708830
20.70	-48.8	-93.6	.00148	679.3	.00000165	1.07708995
19.70	-48.5	-94.1	.00143	690.0	.00000148	1.07709143
18.70	-48.0	-94.1	.00151	701.9	.00000149	1.07709292
17.70	-47.5	-94.1	.00159	714.5	.00000158	1.07709450
16.70	-47.8	-95.0	.00141	725.5	.00000152	1.07709602

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1016.30	15.4	.0	3.76415	287.2		
990.80	14.2	.0	3.86163	288.1	.09921260	.09921260
973.00	12.7	-.7	3.69425	288.1	.06861942	.16783202
956.50	11.8	-2.8	3.14896	288.6	.05760840	.22544041
940.30	10.8	-.7	3.82351	289.0	.05762936	.28306977
924.20	9.9	.0	4.14176	289.5	.06542873	.34849851
909.00	9.3	-2.2	3.51304	290.3	.05936354	.40786205
893.60	8.5	-8.2	2.13173	290.9	.04435155	.45221360
880.00	7.8	-8.2	2.16478	291.4	.02981240	.48202600
864.50	7.0	-8.7	2.10405	292.1	.03375851	.51578450
850.00	6.2	-8.7	2.14007	292.6	.03139769	.54718219
835.70	6.0	-11.6	1.68353	293.9	.02789651	.57507870
821.80	6.3	-24.0	.52801	295.6	.01568379	.59076248
805.80	6.0	-14.1	1.38307	296.9	.01560062	.60636310
793.70	5.3	-7.6	2.51834	297.4	.02408518	.63044828
780.00	4.4	-8.2	2.44341	298.0	.03468151	.66512980
766.00	3.4	-9.2	2.27345	298.5	.03369170	.69882150
752.00	2.7	-10.7	2.03277	299.3	.03075854	.72958004
738.30	2.1	-17.8	1.06999	300.2	.02168754	.75126758
724.20	1.4	-18.8	.99192	301.1	.01483305	.76610063
721.00	1.2	-18.8	.99633	301.2	.00324610	.76934673
712.50	.5	-18.2	1.07459	301.5	.00898097	.77832770
704.00	-.2	-17.5	1.15954	301.7	.00968879	.78801650
695.00	-.9	-17.5	1.17459	302.1	.01071788	.79873438
687.00	-1.4	-18.5	1.07946	302.5	.00920014	.80793452
679.00	-2.2	-18.8	1.05806	302.6	.00872453	.81665905
671.00	-2.8	-19.2	1.03907	303.0	.00855969	.82521874
663.00	-3.4	-19.2	1.05163	303.3	.00853345	.83375219
655.00	-4.1	-19.2	1.06450	303.6	.00863722	.84238940
647.00	-4.5	-19.5	1.04495	304.2	.00860994	.85099934
640.00	-4.8	-19.5	1.05640	304.9	.00750476	.85850410
632.00	-4.8	-23.0	.76191	306.0	.00742164	.86592574
624.00	-4.8	-33.0	.27549	307.1	.00423425	.87016000
617.00	-4.9	-38.8	.14766	307.9	.00151122	.87167121
609.00	-4.9	-41.3	.11329	309.1	.00106509	.87273630
602.00	-5.3	-43.8	.08612	309.7	.00071217	.87344848
595.00	-5.8	-43.9	.08598	310.1	.00061464	.87406312
587.00	-6.3	-44.0	.08605	310.7	.00070217	.87476529
580.00	-6.9	-43.6	.09059	311.2	.00063084	.87539613
573.00	-7.2	-44.5	.08263	311.8	.00061864	.87601477
566.00	-7.8	-45.3	.07654	312.3	.00056845	.87658322
559.00	-8.3	-44.2	.08805	312.8	.00058782	.87717104
552.00	-8.7	-43.8	.09392	313.4	.00064990	.87782094
545.00	-9.2	-44.2	.09031	314.0	.00065798	.87847891
538.00	-10.1	-44.2	.09149	314.1	.00064929	.87912820
529.00	-10.7	-43.1	.10614	314.8	.00090748	.88003568
521.80	-11.6	-42.1	.11989	315.0	.00083032	.88086601
514.90	-12.5	-42.1	.12150	315.1	.00084977	.88171577
508.00	-13.2	-41.5	.13200	315.4	.00089240	.88260818
501.40	-14.1	-41.3	.13761	315.6	.00090785	.88351603
495.00	-15.0	-41.5	.13547	315.6	.00089167	.88440770
488.70	-16.0	-42.1	.12801	315.6	.00084688	.88525458
482.30	-16.7	-42.5	.12455	315.8	.00082467	.88607925
476.00	-17.5	-43.1	.11796	316.1	.00077948	.88685873
469.80	-18.6	-43.8	.11036	315.9	.00072223	.88758096
463.70	-19.2	-44.7	.09954	316.3	.00065324	.88823420

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
457.30	-19.9	-45.4	.09353	316.6	.00063044	.88886464
451.80	-20.7	-44.7	.10216	316.8	.00054914	.88941377
446.00	-21.6	-43.8	.11625	316.9	.00064631	.89006008
439.00	-22.4	-43.4	.12289	317.2	.00085405	.89091413
432.30	-23.4	-44.6	.10811	317.3	.00078963	.89170375
426.20	-24.3	-45.5	.09909	317.5	.00064486	.89234862
420.10	-25.0	-47.0	.08365	318.0	.00056870	.89291732
414.30	-25.5	-44.4	.11573	318.6	.00058998	.89350730
408.60	-26.2	-47.0	.08600	318.9	.00058664	.89409395
403.00	-26.6	-50.1	.06020	319.7	.00041771	.89451165
397.60	-27.0	-50.6	.05710	320.4	.00032316	.89483482
392.30	-27.5	-50.1	.06184	321.0	.00032161	.89515643
387.00	-28.3	-52.1	.04874	321.2	.00029901	.89545543
381.90	-29.0	-51.1	.05564	321.4	.00027159	.89572702
376.70	-29.5	-49.8	.06662	322.0	.00032434	.89605136
371.20	-30.5	-49.2	.07318	322.1	.00039226	.89644362
365.70	-31.5	-49.6	.07018	322.1	.00040226	.89684588
360.00	-32.6	-49.4	.07292	322.2	.00041613	.89726201
354.70	-33.4	-46.2	.10919	322.5	.00049242	.89775443
349.10	-34.2	-44.5	.13564	322.8	.00069949	.89845392
343.80	-35.1	-45.2	.12757	323.0	.00071174	.89916566
338.50	-35.8	-48.1	.09114	323.5	.00059141	.89975707
333.30	-36.6	-47.5	.09932	323.8	.00050531	.90026239
328.40	-37.5	-47.4	.10203	324.0	.00050336	.90076575
323.60	-38.3	-47.2	.10603	324.2	.00050952	.90127526
318.70	-39.0	-45.3	.13594	324.6	.00060493	.90188019
314.00	-39.9	-47.8	.10179	324.8	.00057006	.90245025
309.30	-40.9	-49.7	.08207	324.8	.00044087	.90289111
304.00	-41.8	-50.3	.07806	325.1	.00043297	.90332408
298.80	-42.7	-50.1	.08120	325.5	.00042251	.90374659
293.50	-43.8	-50.0	.08361	325.6	.00044565	.90419224
288.40	-44.7	-50.3	.08228	325.9	.00043164	.90462388
284.80	-45.8	-51.2	.07379	325.5	.00028665	.90491053
279.00	-46.9	-50.4	.08319	325.8	.00046453	.90537506
274.20	-47.8	-50.8	.08096	326.2	.00040199	.90577705
269.60	-48.8	-51.0	.08056	326.3	.00037907	.90615612
265.00	-49.6	-52.1	.07118	326.7	.00035611	.90651223
260.60	-50.7	-52.6	.06791	326.7	.00031222	.90682445
256.50	-51.6	-53.9	.05832	326.9	.00026405	.90708850
251.50	-52.8	-55.3	.04997	326.8	.00027625	.90736476
246.70	-53.8	-56.5	.04337	327.2	.00022858	.90759334
242.10	-54.7	-57.3	.03964	327.5	.00019480	.90778814
237.70	-55.9	-58.7	.03385	327.5	.00016496	.90795310
233.20	-56.7	-59.1	.03254	328.0	.00015242	.90810552
228.00	-58.2	-60.2	.02881	327.9	.00016277	.90826829
224.70	-59.1	-61.2	.02557	328.0	.00009155	.90835984
220.60	-60.2	-62.5	.02154	328.0	.00009853	.90845837
216.80	-60.7	-63.3	.01974	328.9	.00008003	.90853840
212.80	-60.7	-64.2	.01761	330.7	.00007623	.90861464
208.70	-60.7	-67.0	.01217	332.5	.00006230	.90867694
204.70	-60.7	-68.1	.01045	334.3	.00004616	.90872310
200.75	-60.7	-70.1	.00796	336.2	.00003710	.90876020
196.80	-60.9	-70.7	.00743	337.7	.00003101	.90879121
193.00	-61.1	-71.3	.00693	339.3	.00002784	.90881905
189.00	-60.9	-72.7	.00573	341.7	.00002582	.90884487

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
185.00	-60.7	-73.3	.00533	344.1	.00002256	.90886743
181.10	-60.9	-74.7	.00442	345.9	.00001940	.90888683
177.20	-61.1	-74.9	.00433	347.7	.00001739	.90890422
173.60	-61.1	-75.9	.00380	349.7	.00001490	.90891913
170.00	-61.1	-75.4	.00418	351.8	.00001465	.90893377
166.40	-61.1	-76.9	.00339	354.0	.00001390	.90894768
162.80	-61.1	-77.6	.00309	356.2	.00001191	.90895958
159.30	-61.1	-77.7	.00309	358.4	.00001103	.90897061
156.00	-61.4	-78.5	.00281	360.1	.00000992	.90898053
152.50	-61.4	-79.0	.00261	362.5	.00000967	.90899020
149.00	-61.4	-79.9	.00234	364.9	.00000884	.90899904
146.00	-61.4	-80.1	.00230	367.0	.00000709	.90900613
142.80	-61.1	-80.6	.00215	369.8	.00000726	.90901339
139.40	-61.6	-80.2	.00235	371.5	.00000779	.90902118
136.30	-61.8	-81.2	.00206	373.5	.00000697	.90902816
133.20	-61.8	-81.9	.00187	375.9	.00000621	.90903437
130.00	-61.8	-82.4	.00175	378.6	.00000590	.90904027
127.10	-61.8	-81.9	.00194	381.0	.00000545	.90904573
124.20	-62.3	-82.3	.00186	382.7	.00000560	.90905133
121.40	-62.8	-83.4	.00159	384.3	.00000490	.90905623
118.50	-63.3	-83.9	.00149	386.0	.00000454	.90906078
115.70	-63.5	-83.3	.00169	388.2	.00000453	.90906531
112.80	-63.3	-83.2	.00176	391.5	.00000508	.90907039
110.00	-62.8	-83.1	.00185	395.2	.00000514	.90907553
107.20	-62.5	-83.9	.00165	398.6	.00000499	.90908052
104.70	-63.0	-83.9	.00169	400.4	.00000425	.90908477
102.00	-63.5	-84.3	.00161	402.4	.00000453	.90908930
99.30	-63.8	-84.5	.00161	405.0	.00000443	.90909372
96.70	-64.0	-84.5	.00165	407.6	.00000431	.90909803
94.20	-64.0	-84.5	.00169	410.7	.00000426	.90910229
91.70	-64.3	-84.7	.00169	413.4	.00000431	.90910660
89.20	-64.3	-84.8	.00171	416.6	.00000432	.90911092
86.80	-64.6	-85.7	.00148	419.4	.00000390	.90911482
84.50	-64.8	-85.8	.00150	422.1	.00000350	.90911832
82.30	-65.1	-86.1	.00147	424.7	.00000332	.90912165
80.10	-65.1	-86.4	.00144	428.0	.00000325	.90912490
78.00	-65.1	-86.6	.00141	431.3	.00000304	.90912794
75.80	-64.8	-86.9	.00138	435.4	.00000311	.90913105
73.70	-64.6	-87.1	.00137	439.4	.00000294	.90913399
71.80	-64.6	-87.2	.00138	442.7	.00000267	.90913665
69.80	-64.3	-87.9	.00126	446.9	.00000270	.90913935
67.80	-64.3	-87.9	.00130	450.6	.00000261	.90914196
66.00	-64.0	-88.3	.00124	454.6	.00000232	.90914428
64.00	-63.8	-88.4	.00126	459.2	.00000255	.90914683
62.00	-63.5	-88.6	.00125	464.0	.00000256	.90914939
60.20	-63.0	-88.7	.00127	469.0	.00000231	.90915170
58.30	-62.8	-88.9	.00126	473.8	.00000244	.90915415
56.50	-62.1	-89.4	.00119	479.8	.00000224	.90915638
54.60	-61.8	-89.4	.00123	485.0	.00000232	.90915871
52.80	-61.4	-89.1	.00134	490.8	.00000235	.90916106
51.10	-61.4	-89.3	.00134	495.4	.00000231	.90916337
49.30	-61.4	-88.4	.00163	500.5	.00000273	.90916610
47.70	-61.6	-90.4	.00118	504.7	.00000229	.90916839
46.00	-61.6	-92.4	.00083	509.9	.00000174	.90917014
44.50	-61.6	-89.6	.00145	514.8	.00000174	.90917188

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
43.00	-61.6	-87.8	.00208	519.9	.00000270	.90917458
41.50	-61.6	-90.8	.00125	525.2	.00000255	.90917712
40.00	-61.6	-89.6	.00161	530.7	.00000218	.90917930
38.70	-61.4	-90.7	.00137	536.4	.00000197	.90918127
37.30	-60.9	-89.7	.00170	543.2	.00000218	.90918344
36.10	-60.4	-90.7	.00147	549.5	.00000192	.90918536
34.90	-59.5	-91.7	.00126	557.2	.00000165	.90918702
33.70	-58.9	-91.4	.00139	564.5	.00000161	.90918863
32.50	-58.4	-90.5	.00170	571.6	.00000188	.90919051
31.30	-57.8	-91.1	.00156	579.5	.00000198	.90919249
30.00	-57.2	-89.9	.00203	588.2	.00000237	.90919486
28.80	-56.7	-91.8	.00149	596.3	.00000215	.90919700
27.50	-56.5	-94.3	.00097	604.8	.00000162	.90919863
26.30	-56.3	-94.6	.00097	613.1	.00000118	.90919980
25.30	-56.1	-96.1	.00075	620.5	.00000086	.90920067
24.00	-55.9	-92.5	.00156	630.5	.00000152	.90920219
22.90	-55.5	-87.1	.00441	640.2	.00000334	.90920553
21.80	-54.9	-89.5	.00301	651.0	.00000416	.90920968
20.70	-54.7	-95.3	.00108	661.3	.00000229	.90921198
19.70	-54.2	-84.4	.00822	672.5	.00000474	.90921672
18.80	-54.0	-90.3	.00305	682.2	.00000517	.90922189
18.00	-53.4	-91.4	.00260	692.5	.00000229	.90922418
17.20	-53.0	-84.2	.00984	702.8	.00000507	.90922925
16.70	-52.7	-79.6	.02164	709.9	.00000802	.90923727
16.10	-50.8	-78.9	.02533	723.3	.00001438	.90925165
15.60	-50.7	-78.3	.02875	730.4	.00001378	.90926543
15.10	-50.5	-80.1	.02222	737.6	.00001299	.90927842
14.70	-50.3	-77.5	.03464	744.1	.00001159	.90929002
14.20	-50.0	-80.1	.02363	752.7	.00001486	.90930487
13.70	-49.8	-80.5	.02273	761.0	.00001182	.90931669
13.20	-49.6	-80.4	.02419	769.7	.00001197	.90932865
12.80	-49.6	-80.4	.02494	776.5	.00001001	.90933867
12.30	-49.6	-79.5	.03011	785.4	.00001404	.90935270
11.80	-49.4	-79.8	.02989	795.4	.00001530	.90936801
11.40	-49.4	-80.5	.02731	803.3	.00001167	.90937968
11.00	-49.4	-80.5	.02865	811.5	.00001141	.90939109
10.50	-49.4	-80.3	.03078	822.4	.00001515	.90940624
10.30	-49.4	-80.2	.03178	826.9	.00000638	.90941262
10.00	-49.4	-80.2	.03273	833.9	.00000986	.90942249

WASHINGTON,D.C. 12/22/64 1707Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1016.00	.4	-3.2	2.88382	272.4		
988.50	.3	-3.2	2.96443	274.4	.08205417	.08205417
966.00	-1.9	-5.4	2.49896	274.0	.06271717	.14477134
945.00	-1.3	-5.9	2.46044	276.3	.05313613	.19790746
926.00	-.8	-5.9	2.51112	278.4	.04819350	.24610096
906.00	1.5	-7.1	2.30787	282.6	.04917325	.29527421
887.00	4.1	-19.5	.75850	286.9	.02972490	.32499911
867.00	3.8	-19.8	.75861	288.5	.01548062	.34047973
850.50	3.5	-19.0	.82744	289.7	.01335184	.35383157
834.00	2.8	-16.5	1.07068	290.6	.01597893	.36981051
816.00	2.1	-17.6	.99268	291.7	.01894908	.38875958
799.00	1.4	-18.6	.92207	292.7	.01660743	.40536702
782.00	.4	-18.6	.94215	293.5	.01616918	.42153619
766.00	-.9	-16.5	1.16590	293.8	.01720849	.43874468
749.00	-2.4	-17.6	1.08163	294.0	.01949380	.45823848
734.00	-3.5	-16.0	1.27930	294.6	.01806827	.47630675
718.00	-4.3	-15.2	1.41340	295.5	.02198116	.49828792
702.00	-5.0	-16.0	1.33775	296.7	.02245824	.52074616
686.00	-5.9	-16.3	1.33564	297.6	.02182348	.54256964
670.00	-6.7	-19.8	.98202	298.8	.01891959	.56148922
654.00	-7.4	-23.0	.73450	300.1	.01401232	.57550155
638.00	-8.3	-25.3	.59891	301.2	.01088496	.58638650
623.50	-9.7	-22.0	.85231	301.5	.01073600	.59712251
608.00	-11.4	-21.5	.91170	301.8	.01394999	.61107250
593.50	-12.9	-21.3	.95325	302.1	.01379673	.62486923
579.50	-14.3	-21.1	.99756	302.5	.01393427	.63880350
566.00	-16.0	-21.1	1.02139	302.6	.01390597	.65270947
552.00	-17.4	-22.0	.96288	303.1	.01417327	.66688274
538.00	-18.6	-22.6	.93009	303.8	.01352111	.68040384
526.50	-19.6	-23.6	.86090	304.5	.01050830	.69091214
513.30	-20.8	-23.4	.90002	305.3	.01185925	.70277140
499.50	-22.4	-23.0	.96204	305.7	.01311038	.71588178
486.20	-23.0	-22.0	1.09342	307.4	.01394768	.72982946
473.70	-23.5	-22.8	1.03522	309.1	.01357545	.74340491
461.50	-24.4	-24.4	.90927	310.3	.01210339	.75550830
449.50	-25.9	-25.7	.82015	310.7	.01058818	.76609649
438.20	-27.2	-26.9	.74302	311.3	.00901206	.77510855
425.90	-28.4	-27.7	.70158	312.3	.00906555	.78417410
414.00	-29.5	-28.2	.68622	313.5	.00842594	.79260004
403.00	-30.8	-28.9	.66015	314.2	.00755617	.80015621
392.00	-32.2	-28.9	.67870	314.9	.00751394	.80767015
382.00	-33.5	-30.7	.57558	315.5	.00639935	.81406949
377.30	-34.2	-31.6	.53214	315.7	.00265624	.81672573
371.50	-35.2	-32.7	.48034	315.8	.00299607	.81972180
360.00	-36.8	-34.9	.39066	316.5	.00511041	.82483222
349.60	-38.5	-36.1	.35206	316.9	.00394095	.82877317
339.00	-40.1	-38.1	.29234	317.4	.00348502	.83225819
329.10	-41.9	-39.7	.25093	317.6	.00274405	.83500224
320.00	-43.2	-41.2	.21658	318.5	.00217055	.83717279
311.00	-45.0	-43.0	.18201	318.6	.00183024	.83900303
302.00	-46.4	-44.7	.15423	319.2	.00154395	.84054698
287.70	-49.2	-51.3	.07250	319.7	.00165416	.84220114
282.40	-50.1	-52.3	.06464	320.1	.00037082	.84257196
277.10	-51.6	-53.4	.05771	319.7	.00033085	.84290281
271.80	-52.9	-54.9	.04881	319.6	.00028802	.84319083
266.40	-53.7	-56.9	.03807	320.3	.00023936	.84343019

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
261.20	-55.1	-55.9	.04461	320.0	.00021935	.84364954
255.40	-55.9	-55.4	.04822	320.9	.00027469	.84392422
250.00	-57.0	-55.8	.04703	321.3	.00026241	.84418663
245.00	-57.8	-56.7	.04257	321.8	.00022855	.84441519
240.30	-59.2	-58.0	.03665	321.6	.00018995	.84460513
235.70	-60.1	-59.0	.03276	322.0	.00016290	.84476803
231.20	-60.8	-60.0	.02902	322.7	.00014183	.84490986
226.70	-62.0	-61.7	.02338	322.6	.00012030	.84503016
222.20	-63.1	-63.0	.01992	322.9	.00009941	.84512956
218.00	-64.4	-64.7	.01611	322.6	.00007720	.84520677
213.50	-65.2	-65.4	.01477	323.3	.00007091	.84527768
208.60	-66.0	-66.3	.01330	324.1	.00007017	.84534785
204.00	-65.8	-68.4	.01014	326.6	.00005500	.84540285
199.70	-65.2	-68.8	.00973	329.5	.00004360	.84544645
195.50	-65.8	-68.7	.01015	330.6	.00004260	.84548905
191.20	-66.6	-68.7	.01028	331.4	.00004481	.84553386
187.10	-66.9	-68.9	.01018	333.0	.00004278	.84557664
182.90	-66.9	-69.0	.01030	335.1	.00004387	.84562051
178.90	-66.0	-69.7	.00948	338.7	.00004035	.84566087
175.00	-65.8	-70.1	.00919	341.3	.00003713	.84569800
170.70	-66.0	-71.0	.00819	343.2	.00003810	.84573610
166.70	-65.8	-75.4	.00426	346.0	.00002539	.84576149
162.50	-65.5	-76.6	.00361	349.1	.00001685	.84577835
158.60	-65.2	-77.1	.00342	352.0	.00001398	.84579232
154.80	-65.8	-77.1	.00350	353.4	.00001340	.84580572
151.20	-66.9	-77.3	.00349	353.9	.00001283	.84581855
147.30	-66.6	-77.0	.00373	357.0	.00001435	.84583290
143.50	-66.0	-78.4	.00308	360.7	.00001319	.84584609
140.00	-65.5	-78.8	.00294	364.2	.00001073	.84585682
136.50	-64.6	-78.8	.00306	368.3	.00001070	.84586751
133.00	-63.6	-79.1	.00296	373.0	.00001074	.84587826
129.40	-62.8	-79.1	.00304	377.3	.00001103	.84588929
126.00	-62.3	-79.4	.00299	381.1	.00001046	.84589975
122.50	-61.8	-79.5	.00303	385.1	.00001076	.84591050
119.30	-61.1	-79.7	.00298	389.3	.00000982	.84592032
116.20	-60.8	-80.1	.00288	392.7	.00000927	.84592959
112.80	-60.8	-80.5	.00279	396.1	.00000983	.84593943
109.50	-60.8	-80.6	.00284	399.5	.00000948	.84594890
106.50	-60.6	-80.5	.00296	403.1	.00000837	.84595777
103.40	-60.6	-80.8	.00287	406.5	.00000921	.84596698
100.50	-60.1	-81.1	.00281	410.7	.00000839	.84597537
97.70	-59.6	-81.4	.00276	415.0	.00000796	.84598333
94.80	-59.4	-81.6	.00275	419.0	.00000815	.84599148
92.00	-59.2	-81.8	.00275	423.1	.00000785	.84599933
89.30	-59.4	-81.9	.00278	426.2	.00000761	.84600694
86.60	-60.1	-82.2	.00273	428.6	.00000758	.84601453
83.90	-60.8	-82.4	.00273	431.0	.00000751	.84602204
81.40	-60.3	-82.6	.00272	435.8	.00000693	.84602897
79.10	-60.1	-82.9	.00266	439.8	.00000630	.84603527
76.80	-60.1	-83.1	.00264	443.6	.00000621	.84604149
74.70	-60.1	-83.2	.00267	447.1	.00000569	.84604718
72.30	-60.3	-83.5	.00262	450.8	.00000647	.84605365
70.00	-60.1	-84.1	.00243	455.5	.00000592	.84605956
67.80	-60.1	-84.5	.00237	459.6	.00000538	.84606494
65.70	-60.1	-84.5	.00244	463.8	.00000516	.84607010

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
63.60	-60.3	-84.6	.00248	467.6	.00000528	.84607537
61.50	-60.1	-84.9	.00242	472.6	.00000525	.84608062
59.40	-59.9	-85.0	.00246	477.8	.00000523	.84608585
57.30	-59.6	-85.2	.00245	483.3	.00000526	.84609111
55.30	-59.6	-85.2	.00254	488.3	.00000510	.84609620
53.40	-59.4	-85.3	.00258	493.7	.00000496	.84610116
51.50	-59.2	-85.6	.00257	499.4	.00000499	.84610616
49.60	-58.7	-86.0	.00247	505.8	.00000487	.84611103
47.80	-58.5	-86.3	.00246	511.7	.00000452	.84611554
46.10	-58.3	-86.3	.00255	517.6	.00000434	.84611988
44.40	-58.1	-86.5	.00254	523.7	.00000440	.84612428
42.70	-57.2	-86.9	.00248	531.7	.00000434	.84612861
41.20	-56.3	-86.5	.00273	539.3	.00000398	.84613259
39.70	-55.5	-87.1	.00255	547.2	.00000404	.84613663
38.00	-54.7	-87.5	.00250	556.2	.00000437	.84614100
36.40	-54.3	-87.7	.00249	564.1	.00000407	.84614506
35.00	-54.3	-88.0	.00248	570.4	.00000355	.84614861
33.60	-54.3	-88.1	.00252	577.1	.00000356	.84615217
32.20	-54.3	-88.8	.00234	584.2	.00000347	.84615564
30.70	-54.3	-88.2	.00270	592.2	.00000384	.84615949
29.20	-53.7	-89.4	.00229	602.4	.00000381	.84616330
27.60	-53.1	-90.1	.00213	613.8	.00000361	.84616691
26.10	-52.1	-90.1	.00225	626.4	.00000335	.84617026
24.60	-51.4	-90.4	.00227	639.2	.00000346	.84617372
23.30	-50.5	-91.0	.00215	651.9	.00000292	.84617664
22.20	-49.4	-90.8	.00232	664.2	.00000250	.84617914
21.10	-48.1	-91.4	.00218	677.6	.00000252	.84618166
20.10	-46.8	-91.0	.00249	691.[illegible]	.00000238	.84618405
19.30	-45.8	-91.4	.00239	702.4	.00000198	.84618603
18.40	-44.5	-91.4	.00250	716.2	.00000224	.84618826
17.70	-43.2	-91.9	.00239	728.2	.00000174	.84619001
[illegible]	-42.1	-92.2	.00233	738.9	.00000143	.84619144
16.60	-41.2	-92.9	.00213	748.2	.00000113	.84619257
16.10	-40.1	-93.2	.00206	758.2	.00000106	.84619363
15.60	-38.6	-93.5	.00199	769.9	.00000103	.84619465
15.20	-38.9	-93.5	.00205	774.7	.00000082	.84619547
14.70	-38.9	-93.9	.00198	782.1	.00000101	.84619649
14.30	-38.9	-94.1	.00197	788.3	.00000080	.84619729
13.90	-38.8	-94.2	.00196	795.2	.00000079	.84619808
13.50	-38.8	-94.1	.00208	801.9	.00000082	.84619890
13.10	-38.8	-94.6	.00194	808.8	.00000082	.84619972
12.70	-38.8	-94.8	.00193	816.0	.00000077	.84620050
12.30	-38.8	-95.2	.00185	823.5	.00000076	.84620126
11.90	-38.6	-95.0	.00199	831.8	.00000077	.84620203
11.60	-38.6	-94.8	.00211	837.9	.00000063	.84620266

WASHINGTON,D.C. 1/28/65 1715Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1006.40	2.2	-11.0	1.46899	274.9		
983.50	1.4	-11.4	1.45568	275.9	.03417072	.03417072
963.50	.3	-12.1	1.39653	276.4	.02910407	.06327479
945.00	-.9	-12.4	1.38049	276.7	.02621152	.08948630
925.50	-2.3	-13.1	1.32776	276.9	.02694419	.11643049
908.00	-2.7	-12.7	1.39510	278.0	.02431114	.14074163
893.00	-3.2	-10.7	1.70871	278.8	.02375354	.16449517
878.20	-4.6	-8.4	2.12860	278.8	.02897550	.19347067
862.30	-5.5	-8.0	2.24420	279.3	.03547305	.22894372
846.00	-6.5	-7.6	2.37248	279.7	.03839360	.26733732
829.00	-7.3	-7.6	2.42132	280.5	.04157867	.30891599
811.50	-8.2	-8.8	2.22388	281.3	.04147482	.35039081
793.30	-8.3	-8.8	2.27509	283.0	.04177596	.39216676
775.20	-8.3	-9.2	2.25131	284.8	.04179975	.43396652
757.00	-8.8	-9.9	2.15325	286.2	.04089934	.47486585
740.40	-9.1	-11.0	1.99844	287.8	.03516208	.51002793
722.00	-9.6	-11.4	1.98460	289.3	.03739157	.54741950
704.00	-10.8	-11.4	2.03550	290.0	.03691913	.58433864
686.00	-11.8	-12.4	1.90329	291.0	.03617242	.62051105
670.00	-13.2	-13.4	1.78146	291.5	.03007947	.65059052
654.00	-14.7	-17.0	1.31258	291.8	.02525741	.67584793
639.50	-16.0	-19.6	1.04943	292.2	.01747397	.69332190
627.00	-16.9	-20.0	1.02177	292.8	.01320909	.70653099
615.00	-17.9	-21.4	.90954	293.3	.01182431	.71835530
602.50	-19.0	-21.9	.88887	293.7	.01146944	.72982474
590.00	-20.2	-22.1	.88876	294.2	.01133692	.74116166
577.80	-20.9	-24.4	.72284	295.1	.01003139	.75119305
565.50	-21.8	-31.2	.37046	295.9	.00686102	.75805406
552.50	-22.8	-33.7	.28801	296.7	.00436740	.76242146
539.80	-24.0	-37.1	.20493	297.1	.00319400	.76561546
525.50	-26.0	-37.8	.19454	297.0	.00291446	.76852992
511.50	-27.6	-36.7	.22517	297.3	.00299795	.77152787
497.40	-29.6	-36.3	.24118	297.4	.00335486	.77488273
483.80	-31.0	-37.1	.22866	298.0	.00326006	.77814279
470.00	-32.6	-39.9	.17085	298.5	.00281283	.78095563
456.10	-34.3	-37.9	.22120	298.9	.00278035	.78373598
442.00	-36.3	-38.1	.22243	299.1	.00319137	.78692734
431.00	-38.2	-38.0	.23103	298.8	.00254487	.78947221
419.00	-39.9	-39.7	.19644	299.0	.00261711	.79208931
407.40	-41.4	-39.6	.20460	299.5	.00237349	.79446280
400.50	-42.4	-40.7	.18408	299.7	.00136830	.79583110
385.80	-44.3	-42.0	.16562	300.5	.00262272	.79845382
382.30	-44.9	-45.2	.11374	300.5	.00049885	.79895267
376.20	-45.8	-46.7	.09732	300.6	.00065684	.79960951
370.00	-46.6	-48.6	.07865	301.0	.00055663	.80016614
363.50	-47.4	-50.6	.06279	301.4	.00046906	.80063520
358.10	-47.9	-51.6	.05603	302.1	.00032736	.80096257
350.80	-48.6	-52.9	.04846	302.9	.00038917	.80135174
345.60	-49.3	-53.6	.04510	303.3	.00024819	.80159993
340.00	-49.9	-54.1	.04286	303.8	.00025131	.80185124
334.30	-49.9	-54.9	.03962	305.3	.00023986	.80209111
329.00	-49.8	-57.5	.02837	306.9	.00018384	.80227494
324.00	-49.9	-59.2	.02324	308.0	.00013164	.80240658
319.00	-50.3	-61.3	.01767	308.9	.00010437	.80251095
314.20	-50.3	-61.8	.01680	310.2	.00008442	.80259536
309.20	-49.4	-65.3	.01041	312.9	.00006939	.80266476

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
303.80	-48.6	-67.4	.00788	315.6	.00005038	.80271514
298.70	-49.1	-67.0	.00851	316.5	.00004265	.80275778
293.60	-49.6	-66.9	.00875	317.3	.00004490	.80280268
288.80	-50.1	-66.7	.00907	318.1	.00004362	.80284630
284.00	-50.1	-67.1	.00877	319.6	.00004369	.80288999
279.40	-48.7	-68.5	.00729	323.0	.00003770	.80292769
274.90	-46.8	-70.0	.00590	327.4	.00003028	.80295797
270.50	-46.1	-70.9	.00522	329.8	.00002496	.80298293
266.20	-45.8	-72.0	.00451	331.8	.00002134	.80300426
261.90	-45.8	-71.4	.00500	333.4	.00002085	.80302511
257.70	-46.1	-71.5	.00503	334.4	.00002149	.80304660
254.00	-46.5	-72.0	.00478	335.4	.00001849	.80306509
247.20	-46.3	-72.4	.00459	338.2	.00003248	.80309758
242.50	-46.0	-73.4	.00404	340.5	.00002068	.80311826
238.00	-45.8	-73.5	.00402	342.6	.00001849	.80313675
233.60	-45.7	-73.7	.00400	344.7	.00001802	.80315477
229.40	-44.4	-74.4	.00363	348.4	.00001635	.80317111
225.20	-43.9	-75.4	.00316	350.9	.00001453	.80318564
221.10	-44.3	-75.8	.00303	352.3	.00001293	.80319858
217.20	-44.4	-76.3	.00286	353.9	.00001170	.80321027
213.20	-44.6	-76.8	.00266	355.5	.00001125	.80322152
208.70	-44.6	-77.6	.00242	357.7	.00001165	.80323318
204.50	-44.4	-77.5	.00250	360.0	.00001054	.80324371
200.50	-44.4	-78.7	.00211	362.0	.00000940	.80325311
196.70	-44.3	-78.2	.00230	364.3	.00000855	.80326167
193.00	-44.6	-78.5	.00225	365.8	.00000860	.80327027
189.30	-44.9	-78.7	.00221	367.3	.00000840	.80327867
185.80	-45.5	-79.4	.00204	368.2	.00000757	.80328624
182.50	-46.1	-79.6	.00199	369.1	.00000677	.80329300
179.40	-47.3	-80.0	.00191	369.1	.00000615	.80329916
176.70	-47.4	-80.7	.00172	370.4	.00000499	.80330415
173.10	-47.8	-81.5	.00153	372.0	.00000596	.80331011
169.50	-48.4	-81.1	.00166	373.2	.00000586	.80331597
165.90	-49.4	-81.1	.00170	373.8	.00000617	.80332214
162.40	-50.3	-81.3	.00168	374.6	.00000603	.80332817
158.80	-51.3	-81.7	.00162	375.3	.00000605	.80333422
155.30	-52.2	-81.4	.00173	376.1	.00000598	.80334020
152.20	-52.8	-81.5	.00174	377.4	.00000548	.80334568
148.90	-53.5	-81.2	.00186	378.4	.00000606	.80335175
145.80	-54.3	-80.9	.00202	379.4	.00000614	.80335788
142.80	-55.1	-81.0	.00200	380.3	.00000615	.80336404
140.40	-55.6	-81.1	.00201	381.2	.00000490	.80336894
137.50	-56.6	-81.0	.00208	381.7	.00000603	.80337498
134.50	-56.2	-81.0	.00213	384.8	.00000644	.80338141
131.40	-55.6	-81.1	.00214	388.4	.00000675	.80338816
128.30	-55.4	-81.3	.00213	391.4	.00000675	.80339491
125.20	-55.1	-81.5	.00212	394.9	.00000671	.80340162
122.00	-54.9	-81.9	.00204	398.2	.00000673	.80340840
118.70	-54.7	-82.2	.00200	401.7	.00000678	.80341518
115.60	-55.6	-82.4	.00198	402.9	.00000629	.80342147
112.50	-56.6	-82.5	.00201	404.2	.00000630	.80342777
109.30	-57.3	-81.9	.00227	406.4	.00000699	.80343476
106.50	-58.3	-82.8	.00202	407.4	.00000612	.80344088
103.70	-58.5	-83.5	.00184	410.1	.00000551	.80344640
101.00	-58.3	-83.4	.00192	413.6	.00000519	.80345158

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
98.40	-58.1	-83.1	.00204	417.2	.00000526	.80345684
95.80	-57.9	-83.1	.00210	420.8	.00000548	.80346233
93.30	-57.7	-83.0	.00223	424.4	.00000551	.80346784
90.80	-57.7	-83.9	.00196	427.7	.00000533	.80347317
88.30	-57.5	-86.2	.00134	431.5	.00000420	.80347738
85.80	-57.5	-87.4	.00112	435.1	.00000314	.80348052
83.60	-58.5	-86.0	.00147	436.2	.00000291	.80348343
81.40	-58.7	-86.1	.00148	439.1	.00000331	.80348673
79.40	-58.1	-86.2	.00149	443.5	.00000302	.80348976
77.20	-58.5	-86.3	.00150	446.2	.00000335	.80349311
74.90	-58.9	-86.8	.00143	449.2	.00000344	.80349655
72.70	-59.6	-86.8	.00147	451.6	.00000325	.80349980
70.70	-59.4	-87.1	.00142	455.7	.00000295	.80350275
68.70	-58.9	-87.3	.00144	460.4	.00000291	.80350566
66.60	-57.9	-87.7	.00136	466.8	.00000298	.80350864
64.80	-55.1	-88.0	.00134	476.7	.00000247	.80351111
62.90	-55.1	-88.5	.00126	480.7	.00000252	.80351363
61.00	-55.1	-88.6	.00127	485.0	.00000244	.80351608
59.20	-56.4	-88.3	.00137	486.0	.00000241	.80351849
57.30	-56.6	-88.2	.00145	490.1	.00000273	.80352122
55.50	-57.0	-87.7	.00163	493.7	.00000282	.80352403
53.70	-57.5	-87.6	.00172	497.4	.00000307	.80352710
52.00	-58.5	-87.9	.00170	499.5	.00000297	.80353007
50.20	-59.2	-90.0	.00119	503.1	.00000265	.80353272
48.50	-59.8	-92.3	.00081	506.5	.00000173	.80353445
46.80	-60.5	-91.1	.00104	510.1	.00000159	.80353604
45.20	-56.8	-89.4	.00149	524.0	.00000206	.80353810
43.50	-57.3	-88.9	.00170	528.8	.00000277	.80354087
42.10	-58.1	-88.7	.00180	531.7	.00000250	.80354337
40.80	-58.5	-89.0	.00177	535.4	.00000237	.80354574
39.50	-57.0	-88.7	.00192	544.1	.00000244	.80354819
38.20	-56.6	-89.0	.00189	550.3	.00000252	.80355071
36.80	-56.8	-89.5	.00179	555.7	.00000262	.80355333
35.50	-57.0	-89.4	.00190	560.9	.00000244	.80355577
34.10	-57.5	-89.8	.00184	566.3	.00000267	.80355844
32.90	-57.7	-90.9	.00156	571.6	.00000207	.80356051
31.70	-56.6	-91.7	.00138	580.4	.00000179	.80356230
30.40	-56.6	-92.5	.00125	587.4	.00000174	.80356404
29.20	-56.6	-92.0	.00142	594.2	.00000162	.80356567
27.90	-56.6	-90.9	.00184	602.0	.00000215	.80356781
26.70	-56.6	-89.6	.00241	609.6	.00000259	.80357040
25.60	-56.8	-88.5	.00310	616.4	.00000308	.80357349
24.50	-55.1	-87.5	.00386	629.4	.00000390	.80357739
23.30	-55.2	-86.3	.00498	637.9	.00000541	.80358280
22.30	-55.4	-86.6	.00500	645.3	.00000508	.80358788
21.40	-55.4	-86.1	.00564	653.0	.00000487	.80359276
20.50	-55.6	-85.7	.00637	660.5	.00000551	.80359827
19.70	-55.6	-85.4	.00688	668.0	.00000539	.80360366
18.90	-56.2	-85.4	.00717	674.1	.00000574	.80360940
18.30	-55.8	-85.2	.00770	681.6	.00000454	.80361395
17.70	-54.3	-84.4	.00921	693.1	.00000517	.80361912
17.10	-53.7	-83.5	.01117	701.7	.00000623	.80362535
16.60	-53.5	-82.2	.01428	708.3	.00000648	.80363183
16.20	-53.5	-81.6	.01609	713.3	.00000618	.80363801
15.70	-53.5	-80.7	.01936	719.7	.00000903	.80364704

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
15.40	-53.5	-79.9	.02255	723.7	.00000641	.80365345
15.00	-53.5	-80.1	.02248	729.1	.00000918	.80366263
14.60	-53.5	-79.6	.02483	734.8	.00000964	.80367227
14.30	-53.5	-79.6	.02535	739.2	.00000767	.80367994

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
971.50	-3.3	-14.2	1.13868	272.1		
955.80	-4.8	-14.8	1.09368	271.9	.01788160	.01788160
939.00	-6.0	-15.7	1.02451	272.0	.01815584	.03603745
924.00	-6.9	-18.5	.80377	272.4	.01399182	.05002926
910.00	-7.1	-20.5	.67457	273.3	.01055950	.06058876
895.00	-2.6	-20.7	.67019	279.2	.01029150	.07088026
879.00	-1.4	-16.6	1.00985	281.9	.01371457	.08459483
862.00	-2.0	-9.7	1.92342	282.9	.02544156	.11003639
847.00	-2.4	-6.0	2.70799	283.9	.03544430	.14548069
833.00	-3.0	-3.7	3.36955	284.6	.04341076	.18889146
818.50	-3.6	-5.1	3.03147	285.4	.04735427	.23624572
804.00	-4.3	-5.1	3.08641	286.2	.04525967	.28150539
790.00	-4.9	-6.0	2.90428	286.9	.04279052	.32429591
776.00	-5.4	-6.5	2.84345	287.8	.04105510	.36535101
762.00	-6.2	-7.8	2.59358	288.5	.03883579	.40418680
748.00	-6.9	-7.8	2.64233	289.3	.03739923	.44158603
735.00	-7.4	-6.9	2.89443	290.2	.03672326	.47830929
723.00	-8.0	-7.3	2.83366	290.9	.03506981	.51337910
710.00	-8.6	-7.8	2.78439	291.8	.03726242	.55064152
697.00	-9.5	-8.6	2.63739	292.3	.03596058	.58660211
684.00	-10.6	-10.9	2.19601	292.6	.03205812	.61866023
670.00	-11.4	-12.3	1.97385	293.5	.02978456	.64844479
655.00	-11.2	-12.3	2.01919	295.6	.03055885	.67900364
635.30	-11.8	-20.5	.96670	297.6	.03001121	.70901485
622.00	-12.8	-23.0	.77495	298.2	.01181829	.72083314
607.60	-13.9	-21.9	.88322	298.9	.01218241	.73301555
596.20	-15.5	-20.5	1.03021	298.6	.01112910	.74414465
588.80	-16.0	-20.2	1.06790	299.1	.00792140	.75206605
581.30	-16.8	-19.0	1.21782	299.3	.00874636	.76081240
574.20	-17.2	-20.0	1.12029	300.0	.00846966	.76928206
567.90	-17.7	-21.2	1.01020	300.3	.00684799	.77613005
561.00	-18.3	-22.3	.91628	300.6	.00678198	.78291203
554.20	-18.7	-22.7	.88874	301.2	.00626229	.78917432
547.70	-19.4	-23.8	.81033	301.4	.00563464	.79480895
541.00	-20.0	-24.0	.80346	301.7	.00551648	.80032544
534.40	-20.8	-24.2	.79750	301.8	.00539094	.80571638
528.00	-21.4	-24.4	.79083	302.1	.00518635	.81090273
520.80	-22.1	-24.2	.81835	302.6	.00591125	.81681398
513.00	-22.8	-24.8	.78229	302.9	.00636986	.82318383
505.40	-23.6	-26.2	.69370	303.3	.00572321	.82890704
498.00	-24.5	-27.6	.60731	303.5	.00491194	.83381899
490.20	-25.2	-28.5	.56458	304.0	.00466362	.83848260
483.00	-26.2	-32.1	.39203	304.0	.00351407	.84199667
475.80	-27.1	-32.4	.38585	304.2	.00285748	.84485415
467.70	-28.0	-32.7	.38068	304.6	.00316776	.84802191
461.60	-28.8	-32.7	.38571	304.8	.00238517	.85040708
454.80	-29.5	-33.1	.37398	305.2	.00263564	.85304272
448.20	-30.1	-34.2	.33691	305.7	.00239380	.85543652
442.30	-30.9	-34.9	.31756	305.9	.00197008	.85740660
435.00	-31.6	-35.4	.30510	306.5	.00231907	.85972567
427.60	-32.4	-37.3	.25257	307.0	.00210547	.86183114
420.50	-33.2	-38.1	.23416	307.4	.00176315	.86359429
413.80	-34.0	-37.9	.24424	307.8	.00163533	.86522962
408.00	-34.9	-36.6	.28701	307.8	.00157204	.86680166
400.80	-35.6	-36.3	.30042	308.5	.00215787	.86895953
394.90	-36.3	-35.7	.32682	308.9	.00188810	.87084763

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
389.00	-37.0	-35.4	.34120	309.3	.00201085	.87285848
383.70	-37.7	-36.4	.30945	309.6	.00175937	.87461784
378.40	-38.6	-37.7	.27422	309.7	.00157827	.87619612
373.20	-39.3	-40.4	.20468	310.0	.00127055	.87746666
367.10	-39.9	-42.3	.16751	310.6	.00115833	.87862499
361.00	-40.7	-43.2	.15334	311.0	.00099854	.87962353
355.00	-41.6	-43.2	.15593	311.2	.00094673	.88057026
349.00	-42.5	-44.2	.14151	311.5	.00091052	.88148078
342.20	-43.5	-44.7	.13497	312.0	.00095922	.88244000
337.80	-44.4	-45.2	.12935	311.9	.00059336	.88303337
332.30	-45.3	-45.6	.12580	312.1	.00071597	.88374934
327.00	-46.2	-47.2	.10531	312.4	.00062494	.88437428
321.90	-47.1	-49.8	.07752	312.5	.00047573	.88485001
317.00	-48.1	-50.9	.06904	312.4	.00036639	.88521640
312.00	-49.0	-51.9	.06163	312.7	.00033331	.88554971
306.30	-50.2	-52.7	.05689	312.6	.00034465	.88589436
300.90	-50.9	-53.5	.05252	313.2	.00030142	.88619578
295.40	-52.0	-55.3	.04245	313.3	.00026648	.88646226
290.00	-52.8	-53.9	.05142	313.9	.00025861	.88672087
285.00	-53.9	-53.1	.05822	313.8	.00027969	.88700056
280.00	-54.9	-54.0	.05274	314.0	.00028306	.88728362
275.00	-55.9	-56.3	.03989	314.2	.00023630	.88751993
270.00	-56.3	-57.2	.03624	315.3	.00019421	.88771413
265.00	-56.9	-57.5	.03555	316.0	.00018314	.88789727
260.00	-58.4	-59.0	.02941	315.6	.00016570	.88806297
254.30	-59.5	-60.1	.02608	315.9	.00016133	.88822430
249.20	-60.2	-60.7	.02442	316.8	.00013138	.88835569
244.30	-60.4	-60.9	.02422	318.2	.00012159	.88847728
239.20	-61.1	-61.2	.02380	319.1	.00012495	.88860223
234.40	-60.9	-62.9	.01932	321.3	.00010559	.88870782
230.00	-59.5	-63.0	.01931	325.1	.00008671	.88879453
225.30	-56.7	-69.8	.00748	331.4	.00006424	.88885877
221.10	-56.5	-70.0	.00739	333.5	.00003186	.88889062
217.30	-56.5	-72.9	.00485	335.1	.00002372	.88891435
212.60	-56.3	-74.8	.00366	337.5	.00002041	.88893476
208.30	-55.7	-76.1	.00307	340.5	.00001478	.88894954
204.00	-54.7	-77.4	.00256	344.1	.00001235	.88896190
199.50	-54.9	-77.4	.00262	346.0	.00001188	.88897377
195.20	-55.3	-77.3	.00271	347.5	.00001168	.88898546
191.00	-55.7	-77.8	.00256	349.0	.00001128	.88899674
186.80	-55.1	-78.1	.00248	352.2	.00001079	.88900752
182.70	-54.1	-78.3	.00247	356.0	.00001034	.88901787
179.00	-52.6	-78.5	.00242	360.6	.00000922	.88902709
175.90	-51.3	-78.9	.00230	364.5	.00000745	.88903454
172.20	-50.0	-79.1	.00228	368.8	.00000864	.88904318
168.50	-50.4	-79.0	.00237	370.5	.00000878	.88905196
165.00	-50.6	-79.2	.00235	372.5	.00000842	.88906038
161.60	-50.7	-80.3	.00202	374.4	.00000757	.88906795
158.30	-51.1	-79.4	.00238	376.0	.00000741	.88907535
155.10	-52.0	-79.2	.00250	376.6	.00000796	.88908331
152.00	-53.1	-79.4	.00248	376.9	.00000787	.88909118
149.00	-53.9	-79.7	.00239	377.7	.00000745	.88909863
146.00	-54.1	-79.8	.00240	379.6	.00000733	.88910596
142.50	-54.7	-79.9	.00243	381.2	.00000863	.88911459
139.30	-55.5	-80.0	.00245	382.3	.00000796	.88912255

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
136.20	-55.7	-80.1	.00247	384.4	.00000778	.88913032
132.50	-55.9	-80.1	.00254	387.1	.00000945	.88913977
130.30	-56.1	-80.0	.00262	388.6	.00000578	.88914555
127.40	-56.1	-80.0	.00268	391.1	.00000782	.88915338
124.50	-56.3	-80.1	.00270	393.3	.00000796	.88916133
121.70	-56.5	-80.1	.00276	395.5	.00000781	.88916914
119.00	-56.3	-80.1	.00283	398.4	.00000769	.88917683
116.30	-56.1	-80.3	.00281	401.4	.00000775	.88918458
113.70	-55.9	-80.5	.00275	404.4	.00000736	.88919194
111.00	-56.1	-80.8	.00269	406.8	.00000750	.88919944
107.70	-56.5	-81.1	.00265	409.5	.00000900	.88920844
104.40	-57.1	-81.1	.00270	412.0	.00000900	.88921744
101.50	-57.5	-81.2	.00273	414.5	.00000802	.88922545
98.50	-57.8	-81.5	.00269	417.7	.00000829	.88923374
95.80	-58.0	-81.6	.00272	420.6	.00000744	.88924117
93.20	-58.2	-81.7	.00275	423.5	.00000726	.88924843
90.70	-58.2	-81.8	.00279	426.8	.00000706	.88925549
88.20	-58.0	-81.9	.00282	430.6	.00000714	.88926263
85.70	-58.0	-82.0	.00286	434.2	.00000724	.88926987
83.30	-57.3	-82.2	.00285	439.0	.00000697	.88927685
81.00	-56.1	-82.4	.00284	445.1	.00000666	.88928351
78.70	-55.1	-82.6	.00283	450.9	.00000665	.88929015
76.00	-54.5	-82.7	.00283	456.6	.00000779	.88929795
73.20	-53.9	-82.8	.00290	462.8	.00000818	.88930613
70.90	-54.1	-83.0	.00289	466.6	.00000678	.88931291
69.10	-54.3	-83.2	.00287	469.6	.00000528	.88931818
67.20	-54.5	-83.5	.00280	473.0	.00000550	.88932368
65.50	-54.5	-83.8	.00274	476.4	.00000480	.88932848
63.80	-55.9	-84.2	.00262	477.0	.00000463	.88933311
62.20	-57.1	-84.9	.00241	477.7	.00000410	.88933721
60.30	-58.4	-85.2	.00236	479.1	.00000462	.88934183
58.50	-60.2	-85.6	.00226	479.3	.00000423	.88934606
56.70	-60.9	-84.9	.00265	482.0	.00000450	.88935056
55.00	-60.6	-85.1	.00263	486.7	.00000457	.88935514
53.30	-60.4	-85.6	.00248	491.7	.00000443	.88935956
51.70	-59.3	-85.7	.00251	498.6	.00000405	.88936362
50.00	-58.2	-86.3	.00235	506.0	.00000420	.88936782
48.30	-57.1	-86.4	.00239	513.5	.00000411	.88937193
46.70	-56.5	-86.4	.00247	520.0	.00000396	.88937590
45.00	-57.8	-86.4	.00256	522.5	.00000437	.88938026
43.40	-58.4	-86.8	.00246	526.3	.00000410	.88938436
41.40	-58.8	-87.4	.00233	532.4	.00000487	.88938923
40.10	-59.1	-87.5	.00235	536.7	.00000310	.88939233
38.70	-59.3	-87.9	.00229	541.6	.00000331	.88939564
37.10	-59.3	-88.1	.00229	548.2	.00000373	.88939936
35.50	-59.1	-88.6	.00219	555.7	.00000365	.88940302
33.80	-58.4	-88.8	.00220	565.3	.00000380	.88940682
32.20	-58.0	-89.0	.00226	574.3	.00000364	.88941045
30.40	-57.8	-89.3	.00223	584.4	.00000411	.88941456
28.70	-57.3	-90.0	.00210	595.3	.00000376	.88941832
27.10	-56.9	-90.4	.00207	606.3	.00000340	.88942172
25.50	-56.7	-91.3	.00184	617.5	.00000319	.88942491
24.00	-56.5	-91.8	.00181	628.9	.00000279	.88942769
23.00	-56.1	-92.5	.00164	637.8	.00000176	.88942945
22.10	-55.7	-93.1	.00153	646.3	.00000145	.88943090

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
21.20	-55.1	-93.3	.00155	655.9	.00000140	.88943230
20.40	-54.7	-93.6	.00151	664.3	.00000124	.88943353
19.60	-54.3	-93.9	.00148	673.1	.00000122	.88943475
18.80	-54.1	-94.2	.00145	681.8	.00000119	.88943595
18.10	-53.7	-93.4	.00176	690.4	.00000113	.88943708
17.40	-53.1	-92.7	.00211	700.1	.00000137	.88943845
16.70	-52.8	-93.7	.00179	709.6	.00000139	.88943984
16.10	-52.4	-94.2	.00170	718.2	.00000106	.88944089
15.50	-52.2	-94.9	.00155	726.7	.00000098	.88944188
14.90	-51.8	-95.2	.00151	736.2	.00000092	.88944280
14.40	-51.1	-95.8	.00141	745.8	.00000073	.88944353
14.00	-50.7	-96.3	.00130	753.1	.00000055	.88944408
13.60	-50.6	-96.9	.00120	759.9	.00000051	.88944459
13.30	-50.2	-97.3	.00114	766.0	.00000036	.88944495
12.90	-49.9	-96.7	.00131	773.9	.00000049	.88944544
12.70	-49.3	-96.1	.00149	779.2	.00000028	.88944572

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1012.30	8.2	-5.5	2.37586	280.4		
974.00	7.0	-5.5	2.46966	282.3	.09468511	.09468511
949.00	6.0	-5.5	2.53498	283.4	.06383449	.15851960
928.00	4.6	-6.0	2.47805	283.7	.05371082	.21223041
909.00	3.2	-7.0	2.32094	283.9	.04652055	.25875096
892.00	1.5	-8.0	2.17666	283.8	.03900957	.29776053
875.00	.1	-8.9	2.04802	283.9	.03664242	.33440295
859.50	-1.8	-9.3	2.00363	283.4	.03204097	.36644392
827.50	-3.1	-10.2	1.92835	285.0	.06419535	.43063927
817.00	-4.9	-10.6	1.88045	284.3	.02040419	.45104346
800.00	-5.9	-11.8	1.72189	284.8	.03124467	.48228812
784.00	-6.7	-14.7	1.34490	285.7	.02503493	.50732306
770.00	-7.3	-14.0	1.46036	286.4	.02003747	.52736053
759.00	-8.1	-12.2	1.75378	286.8	.01803844	.54539897
748.00	-8.8	-13.7	1.55223	287.3	.01855408	.56395304
737.00	-9.8	-14.4	1.47625	287.4	.01699652	.58094956
722.00	-10.7	-14.4	1.50699	288.1	.02283083	.60378039
707.00	-12.0	-15.1	1.44462	288.4	.02258876	.62636915
691.50	-13.2	-17.9	1.13097	288.8	.02036807	.64673722
677.00	-14.5	-19.9	.95418	289.1	.01542579	.66216300
[illegible]	-15.7	-23.0	.72472	289.6	.01242039	.67458339
[illegible]	-16.3	-29.6	.38148	290.8	.00818360	.68276699
[illegible]	-17.1	-35.7	.20349	291.7	.00417836	.68694535
[illegible]	-17.2	-40.7	.11891	293.4	.00230289	.68924823
605.80	-20.1	-44.3	.07989	292.0	.00144027	.69068851
592.00	-21.2	[illegible]	.14022	292.6	.00154975	.69223826
577.50	-22.0	-50.4	.20730	293.8	.00257099	.69480924
562.50	-22.5	-34.3	.26777	295.4	.00363575	.69844499
548.30	-22.9	-45.0	.08133	297.1	.00252917	.70097417
535.00	-24.3	-47.2	.06426	297.5	.00098792	.70196208
520.70	-25.4	-47.0	.06749	298.6	.00096124	.70292333
510.60	-26.0	-45.3	.08435	299.5	.00078246	.70370579
500.70	-27.1	-43.9	.10138	299.9	.00093813	.70464392
490.60	-28.1	-49.8	.05134	300.3	.00078695	.70543087
478.30	-24.2	-48.8	.05913	307.4	.00069320	.70612407
473.00	-25.2	-46.1	.08310	307.1	.00038460	.70650867
468.20	-25.9	-41.6	.14208	307.1	.00055146	.70706013
463.20	-26.8	-39.4	.18409	306.9	.00083207	.70789219
457.80	-27.6	-39.3	.18884	307.0	.00102746	.70891966
451.00	-28.4	-39.9	.17924	307.3	.00127700	.71019666
444.20	-29.2	-42.5	.13545	307.6	.00109176	.71128842
435.90	-30.0	-44.7	.10595	308.3	.00102226	.71231069
430.00	-30.8	-47.2	.07995	308.5	.00055960	.71287028
424.10	-31.7	-48.2	.07191	308.5	.00045714	.71332742
418.60	-32.4	-51.0	.05151	308.7	.00034635	.71367377
412.50	-33.4	-50.9	.05335	308.8	.00032637	.71400014
407.00	-34.1	-50.6	.05577	309.1	.00030622	.71430635
401.20	-34.8	-50.2	.05958	309.4	.00034136	.71464771
396.00	-35.4	-50.2	.06037	309.9	.00031823	.71496594
390.40	-36.2	-51.7	.05091	310.0	.00031793	.71528387
385.20	-36.8	-52.5	.04666	310.4	.00025885	.71554272
380.10	-37.7	-52.9	.04499	310.5	.00023846	.71578118
374.20	-38.4	-52.8	.04616	310.9	.00027438	.71605556
368.70	-39.6	-53.8	.04120	310.6	.00024514	.71630070
363.30	-40.5	-54.7	.03720	310.7	.00021599	.71651669
357.00	-41.4	-56.1	.03152	311.0	.00022088	.71673757

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
350.40	-42.4	-56.6	.03005	311.4	.00020732	.71694489
344.30	-43.5	-57.2	.02834	311.5	.00018170	.71712659
338.20	-44.3	-58.2	.02529	312.0	.00016691	.71729350
332.60	-45.4	-58.4	.02500	311.9	.00014366	.71743716
327.00	-46.0	-58.6	.02495	312.7	.00014271	.71757987
321.70	-46.5	-58.6	.02513	313.5	.00013542	.71771529
316.60	-47.1	-58.8	.02506	313.9	.00013058	.71784587
311.70	-47.5	-58.8	.02521	314.9	.00012566	.71797153
307.00	-47.8	-59.0	.02512	315.7	.00012070	.71809223
303.00	-48.7	-60.6	.02054	315.7	.00009318	.71818541
297.40	-49.1	-61.9	.01735	316.8	.00010824	.71829365
292.60	-49.8	-61.2	.01954	317.3	.00009035	.71838400
287.80	-50.9	-62.7	.01618	317.2	.00008748	.71847148
282.80	-51.5	-62.2	.01758	318.0	.00008611	.71855760
278.00	-51.9	-63.8	.01428	319.0	.00007802	.71863562
273.20	-52.7	-63.3	.01566	319.5	.00007333	.71870895
268.60	-53.4	-63.7	.01506	319.9	.00007211	.71878105
264.00	-54.5	-63.9	.01490	320.0	.00007032	.71885137
259.40	-54.9	-64.6	.01367	321.0	.00006704	.71891841
255.10	-53.8	-64.4	.01430	324.0	.00006136	.71897978
250.80	-52.9	-66.7	.01053	327.1	.00005448	.71903425
246.80	-53.0	-66.6	.01081	328.3	.00004354	.71907780
242.50	-53.4	-66.8	.01079	329.3	.00004737	.71912517
238.00	-54.5	-67.4	.01008	329.6	.00004791	.71917307
233.50	-54.9	-67.9	.00951	330.8	.00004497	.71921805
229.00	-54.7	-69.8	.00736	332.9	.00003871	.71925676
224.40	-53.2	-73.1	.00457	337.0	.00002798	.71928474
219.60	-51.7	-75.0	.00344	341.5	.00001960	.71930434
214.70	-49.8	-77.0	.00257	346.6	.00001499	.71931933
210.50	-49.5	-77.9	.00229	349.2	.00001040	.71932973
205.00	-50.0	-78.8	.00202	351.0	.00001208	.71934181
200.60	-49.8	-79.7	.00179	353.4	.00000855	.71935037
196.40	-49.6	-79.7	.00183	355.9	.00000775	.71935812
192.30	-50.4	-79.8	.00184	356.8	.00000767	.71936579
188.50	-50.6	-79.9	.00183	358.6	.00000711	.71937290
185.20	-50.6	-80.6	.00167	360.4	.00000589	.71937878
182.10	-50.2	-80.5	.00172	362.7	.00000536	.71938415
179.00	-49.6	-80.9	.00164	365.4	.00000530	.71938945
176.00	-49.3	-81.2	.00160	367.8	.00000495	.71939440
172.80	-49.3	-80.7	.00174	369.7	.00000544	.71939984
168.80	-49.1	-81.7	.00153	372.5	.00000668	.71940652
165.00	-49.6	-81.7	.00156	374.0	.00000599	.71941251
161.30	-50.0	-81.4	.00167	375.8	.00000609	.71941860
158.00	-50.6	-81.3	.00173	377.1	.00000571	.71942431
155.00	-50.9	-82.0	.00157	378.6	.00000504	.71942934
151.90	-51.3	-82.2	.00156	380.1	.00000493	.71943428
148.80	-51.7	-83.1	.00137	381.7	.00000462	.71943890
145.70	-52.5	-82.5	.00155	382.7	.00000460	.71944350
142.70	-52.9	-82.6	.00154	384.3	.00000472	.71944822
139.80	-53.0	-83.1	.00146	386.2	.00000443	.71945265
137.50	-53.2	-83.6	.00135	387.7	.00000328	.71945593
135.00	-53.2	-83.5	.00140	389.7	.00000349	.71945941
132.40	-53.2	-82.5	.00168	391.9	.00000408	.71946350
129.80	-53.2	-84.0	.00134	394.1	.00000401	.71946751
127.20	-53.6	-82.7	.00170	395.7	.00000402	.71947153

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
124.50	-54.3	-82.8	.00171	397.0	.00000469	.71947622
121.70	-54.7	-84.8	.00124	398.8	.00000420	.71948043
118.90	-55.1	-83.3	.00163	400.7	.00000410	.71948452
116.30	-55.5	-85.2	.00121	402.5	.00000377	.71948829
113.40	-55.7	-84.5	.00142	405.0	.00000387	.71949217
110.50	-56.4	-83.2	.00181	406.8	.00000477	.71949694
107.60	-57.0	-84.1	.00159	408.7	.00000504	.71950197
104.90	-57.7	-85.6	.00125	410.4	.00000390	.71950588
102.00	-57.9	-85.4	.00133	413.3	.00000381	.71950969
99.40	-58.1	-83.9	.00178	415.9	.00000411	.71951380
96.80	-58.6	-85.0	.00150	418.2	.00000435	.71951815
94.20	-58.8	-86.3	.00123	421.0	.00000362	.71952178
91.70	-59.0	-85.0	.00158	423.8	.00000358	.71952535
89.20	-59.0	-84.9	.00166	427.1	.00000413	.71952948
86.80	-59.3	-85.7	.00148	430.0	.00000384	.71953332
84.60	-59.3	-85.8	.00150	433.2	.00000334	.71953666
82.40	-59.3	-86.1	.00146	436.4	.00000331	.71953997
80.40	-59.0	-85.5	.00166	440.0	.00000317	.71954314
78.50	-59.0	-86.2	.00150	443.0	.00000305	.71954620
76.70	-59.0	-86.6	.00143	446.0	.00000268	.71954888
74.70	-59.0	-86.4	.00152	449.3	.00000301	.71955189
72.80	-55.1	-84.2	.00232	461.0	.00000371	.71955560
70.70	-53.4	-86.2	.00167	468.4	.00000426	.71955986
68.50	-53.2	-85.5	.00195	473.0	.00000405	.71956392
66.40	-53.6	-84.7	.00234	476.4	.00000459	.71956851
64.50	-54.5	-84.8	.00233	478.6	.00000452	.71957302
62.60	-55.1	-85.5	.00213	481.3	.00000432	.71957734
60.70	-55.7	-86.0	.00201	484.2	.00000401	.71958135
59.00	-56.6	-86.9	.00179	486.2	.00000329	.71958464
57.20	-55.9	-86.5	.00195	492.0	.00000343	.71958807
55.50	-54.9	-86.6	.00198	498.7	.00000340	.71959147
54.00	-55.1	-87.1	.00189	502.1	.00000295	.71959442
52.30	-56.4	-87.4	.00184	503.8	.00000323	.71959765
50.60	-55.7	-86.5	.00221	510.0	.00000350	.71960115
49.10	-55.3	-86.3	.00236	515.4	.00000349	.71960464
47.50	-55.1	-87.6	.00195	520.8	.00000352	.71960816
46.20	-55.9	-87.9	.00189	522.9	.00000255	.71961071
44.80	-55.5	-87.8	.00199	528.6	.00000277	.71961348
43.40	-55.5	-87.2	.00231	533.4	.00000305	.71961653
42.20	-55.3	-87.8	.00211	538.2	.00000270	.71961923
40.90	-55.1	-89.5	.00160	543.6	.00000246	.71962169
39.70	-55.1	-90.1	.00148	548.2	.00000188	.71962357
38.40	-54.7	-90.0	.00156	554.5	.00000201	.71962558
37.20	-54.5	-89.8	.00169	560.1	.00000198	.71962756
36.00	-53.8	-88.8	.00207	566.9	.00000229	.71962985
34.80	-53.4	-89.2	.00201	573.5	.00000249	.71963234
33.60	-53.6	-89.1	.00213	578.8	.00000252	.71963486
32.40	-53.8	-88.8	.00230	584.3	.00000270	.71963756
31.30	-53.2	-88.3	.00263	591.7	.00000276	.71964031
30.20	-52.9	-87.7	.00301	598.8	.00000316	.71964347
29.20	-52.5	-86.5	.00383	605.7	.00000349	.71964696
28.20	-51.7	-86.1	.00426	613.9	.00000411	.71965107
27.20	-51.3	-82.8	.00783	621.3	.00000617	.71965724
26.10	-50.7	-84.9	.00566	630.3	.00000757	.71966481
25.00	-51.3	-84.2	.00674	636.5	.00000696	.71967177

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
24.00	-51.5	-81.4	.01122	643.4	.00000915	.71968092
23.00	-51.9	-79.8	.01540	650.2	.00001357	.71969450
22.00	-52.3	-77.1	.02474	657.3	.00002047	.71971497
21.10	-52.5	-76.4	.02906	664.6	.00002469	.71973966
20.10	-52.7	-77.1	.02708	673.3	.00002864	.71976830
19.30	-53.0	-83.0	.01071	680.0	.00001542	.71978372
18.40	-53.2	-94.7	.00137	688.7	.00000554	.71978927
17.50	-53.0	-96.6	.00098	699.3	.00000107	.71979034
16.70	-52.9	-95.6	.00125	709.3	.00000091	.71979125
16.00	-52.9	-94.2	.00172	718.0	.00000106	.71979231
15.20	-52.9	-92.7	.00238	728.6	.00000167	.71979398
14.50	-52.9	-91.4	.00321	738.5	.00000200	.71979597

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1025.00	15.9	-1.3	3.33795	287.1		
1003.00	14.5	-2.0	3.23428	287.4	.07376957	.07376957
982.00	13.5	-3.2	2.98324	288.2	.06661595	.14038552
962.00	12.6	-3.2	3.04556	288.9	.06151810	.20190363
942.00	11.1	-3.2	3.11055	289.1	.06281719	.26472081
923.00	9.9	-6.5	2.39324	289.6	.05335277	.31807359
906.00	8.5	-7.5	2.23575	289.7	.04014915	.35822274
890.00	7.5	-8.0	2.18025	290.2	.03604878	.39427152
876.00	6.5	-8.0	2.21522	290.4	.03139606	.42566758
861.00	5.8	-8.9	2.07650	291.1	.03284466	.45851225
846.00	4.9	-8.4	2.20273	291.7	.03274907	.49126132
829.00	3.6	-8.0	2.34128	292.0	.03941214	.53067346
814.00	2.5	-8.0	2.38459	292.4	.03616725	.56684071
798.00	2.0	-10.2	1.98908	293.5	.03570330	.60254401
782.00	1.4	-11.9	1.74867	294.6	.03051217	.63305618
766.00	1.0	-14.5	1.40223	295.9	.02572154	.65877771
751.80	.8	-17.9	1.04810	297.2	.01775232	.67653003
739.00	.1	-13.8	1.55323	297.9	.01698826	.69351830
724.00	-.6	-14.9	1.43524	298.9	.02287087	.71638916
708.50	-1.9	-16.6	1.25261	299.3	.02125582	.73764499
694.00	-2.9	-16.9	1.24158	300.0	.01845178	.75609677
679.50	-4.1	-17.2	1.23010	300.5	.01828526	.77438203
666.00	-5.2	-17.2	1.25508	301.0	.01711723	.79149926
653.00	-6.2	-16.9	1.31970	301.5	.01707754	.80857679
640.00	-7.3	-19.4	1.06837	302.0	.01583917	.82441597
629.00	-5.2	-31.8	.31193	305.9	.00774659	.83216256
616.00	-5.3	-32.8	.28656	307.6	.00396957	.83613212
603.50	-6.0	-24.5	.68535	308.7	.00619833	.84233046
590.80	-6.6	-23.6	.76831	309.8	.00941907	.85174952
578.00	-7.7	-24.3	.73187	310.5	.00979704	.86154656
565.00	-8.7	-26.3	.61254	311.3	.00891694	.87046351
553.00	-9.6	-27.5	.55118	312.2	.00712481	.87758832
540.00	-10.9	-28.3	.52046	312.7	.00710778	.88469610
529.00	-12.3	-27.3	.58853	312.9	.00622389	.89091998
517.80	-13.7	-27.9	.56518	313.1	.00659260	.89751258
504.30	-15.2	-28.9	.52500	313.7	.00750884	.90502143
492.70	-16.7	-28.5	.55900	313.9	.00641546	.91143689
480.50	-18.3	-28.7	.56222	314.3	.00697894	.91841583
469.00	-19.9	-28.5	.58727	314.4	.00674440	.92516023
457.40	-21.3	-28.3	.61454	314.9	.00711270	.93227293
446.00	-22.4	-28.5	.61759	315.8	.00716639	.93943931
435.00	-24.0	-27.9	.67287	316.1	.00724232	.94668163
424.70	-25.6	-27.9	.68921	316.1	.00715783	.95383947
414.00	-27.1	-27.5	.73646	316.6	.00778297	.96162243
404.20	-28.2	-28.3	.69551	317.3	.00715983	.96878226
394.70	-29.4	-28.5	.69794	317.9	.00675395	.97553621
383.50	-30.7	-28.9	.69056	318.8	.00793426	.98347047
376.70	-31.9	-30.0	.62636	318.8	.00456887	.98803934
370.60	-33.0	-30.7	.59043	318.9	.00378691	.99182625
365.20	-34.1	-31.9	.52779	318.7	.00308079	.99490704
359.80	-34.5	-32.8	.49077	319.5	.00280620	.99771324
354.40	-35.4	-33.4	.46543	319.8	.00263439	1.00034763
349.40	-36.2	-34.8	.40655	320.0	.00222443	1.00257206
344.40	-37.1	-36.2	.35211	320.1	.00193536	1.00450742
339.50	-38.1	-38.5	.27720	320.1	.00157326	1.00608069
334.80	-38.7	-39.6	.25087	320.6	.00126627	1.00734696

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣK (cm)
330.00	-39.7	-40.4	.23107	320.5	.00118026	1.00852722
325.20	-40.4	-42.0	.19459	320.8	.00104241	1.00956963
320.80	-41.3	-43.1	.17348	320.8	.00082627	1.01039590
316.20	-42.1	-43.6	.16732	321.1	.00079983	1.01119573
311.90	-42.9	-43.1	.17844	321.3	.00075853	1.01195426
307.70	-43.5	-43.8	.16772	321.6	.00074175	1.01269601
303.40	-44.6	-44.7	.15232	321.4	.00070211	1.01339813
299.00	-45.1	-45.3	.14375	322.0	.00066464	1.01406276
294.60	-46.2	-45.4	.14413	321.8	.00064626	1.01470903
290.00	-47.1	-46.7	.12573	322.0	.00063333	1.01534235
285.50	-48.1	-47.2	.12057	322.0	.00056547	1.01590782
281.20	-49.0	-48.4	.10568	322.2	.00049636	1.01640418
277.00	-50.0	-50.3	.08527	322.0	.00040917	1.01681335
272.70	-50.6	-52.4	.06658	322.7	.00033312	1.01714647
268.20	-51.7	-54.4	.05249	322.6	.00027336	1.01741983
263.80	-52.2	-56.6	.04007	323.3	.00020778	1.01762761
259.30	-53.4	-58.6	.03140	323.2	.00016408	1.01779169
255.00	-53.8	-58.9	.03072	324.2	.00013629	1.01792797
250.00	-54.5	-59.6	.02848	324.9	.00015102	1.01807900
245.60	-55.6	-60.6	.02514	325.0	.00012037	1.01819937
241.10	-56.4	-61.0	.02442	325.5	.00011379	1.01831315
236.80	-57.2	-61.4	.02350	325.9	.00010513	1.01841828
232.50	-57.9	-61.5	.02348	326.6	.00010306	1.01852134
228.30	-58.8	-61.2	.02507	327.0	.00010403	1.01862536
224.20	-59.7	-62.7	.02066	327.3	.00009565	1.01872101
220.20	-60.1	-63.8	.01820	328.2	.00007929	1.01880030
216.20	-59.7	-64.3	.01715	330.7	.00007214	1.01887244
212.30	-58.5	-65.7	.01439	334.2	.00006276	1.01893520
208.60	-59.0	-65.7	.01465	335.1	.00005481	1.01899001
203.50	-59.7	-66.1	.01403	336.4	.00007460	1.01906461
198.50	-61.1	-66.8	.01317	336.6	.00006938	1.01913399
194.00	-62.3	-67.1	.01284	336.9	.00005971	1.01919369
189.80	-63.3	-67.9	.01166	337.4	.00005248	1.01924618
185.90	-63.8	-68.4	.01111	338.5	.00004530	1.01929148
182.40	-63.6	-69.1	.01015	340.8	.00003795	1.01932943
179.00	-63.6	-69.4	.00993	342.6	.00003482	1.01936425
175.20	-63.3	-71.2	.00772	345.2	.00003421	1.01939847
171.80	-63.3	-71.2	.00795	347.1	.00002718	1.01942565
168.20	-64.6	-72.2	.00696	347.0	.00002737	1.01945302
164.60	-64.4	-76.0	.00395	349.6	.00002003	1.01947305
161.20	-61.8	-84.8	.00094	356.0	.00000848	1.01948152
157.60	-59.0	-82.1	.00152	363.1	.00000452	1.01948604
154.20	-58.1	-80.5	.00203	366.9	.00000615	1.01949219
150.70	-58.1	-79.9	.00228	369.3	.00000770	1.01949990
147.50	-58.3	-81.3	.00186	371.2	.00000675	1.01950665
144.30	-58.3	-81.0	.00201	373.5	.00000632	1.01951297
141.20	-57.9	-79.9	.00243	376.6	.00000702	1.01951998
138.00	-57.9	-79.0	.00290	379.1	.00000870	1.01952869
134.80	-58.5	-79.6	.00272	380.5	.00000916	1.01953785
132.00	-58.8	-80.2	.00250	382.4	.00000745	1.01954530
129.20	-59.2	-80.8	.00230	383.9	.00000687	1.01955217
126.20	-59.7	-80.7	.00239	385.7	.00000718	1.01955935
123.00	-58.5	-79.2	.00313	390.6	.00000902	1.01956837
120.00	-58.1	-79.2	.00325	394.1	.00000976	1.01957813
116.80	-58.5	-79.3	.00326	396.4	.00001061	1.01958874

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
113.80	-58.8	-80.7	.00265	398.9	.00000903	1.01959777
110.80	-59.4	-81.5	.00238	400.7	.00000769	1.01960546
107.90	-59.7	-81.1	.00265	403.3	.00000744	1.01961289
104.80	-59.9	-81.9	.00238	406.3	.00000796	1.01962085
102.20	-60.1	-82.7	.00212	408.7	.00000598	1.01962683
99.80	-58.3	-81.7	.00257	415.0	.00000574	1.01963256
97.30	-58.8	-82.2	.00243	417.2	.00000638	1.01963894
94.90	-59.4	-83.2	.00210	418.8	.00000553	1.01964447
92.50	-59.9	-83.8	.00194	421.0	.00000493	1.01964940
90.20	-60.1	-83.3	.00218	423.6	.00000483	1.01965423
88.00	-60.4	-83.1	.00230	426.1	.00000501	1.01965924
85.70	-59.9	-83.0	.00239	430.3	.00000550	1.01966473
83.30	-59.7	-83.5	.00229	434.3	.00000572	1.01967046
81.20	-59.7	-84.0	.00215	437.4	.00000474	1.01967520
79.00	-59.7	-84.1	.00217	440.9	.00000484	1.01968004
76.80	-59.7	-84.1	.00224	444.5	.00000495	1.01968499
74.70	-59.9	-84.9	.00200	447.5	.00000453	1.01968952
72.50	-60.4	-84.3	.00226	450.4	.00000478	1.01969430
70.00	-60.8	-84.3	.00238	453.9	.00000592	1.01970021
67.70	-60.4	-84.6	.00231	459.3	.00000550	1.01970571
65.70	-59.9	-84.7	.00235	464.2	.00000475	1.01971047
63.70	-59.0	-84.8	.00238	470.4	.00000481	1.01971528
61.80	-58.5	-85.0	.00238	475.4	.00000460	1.01971988
59.90	-58.5	-85.3	.00230	479.7	.00000453	1.01972441
58.10	-58.5	-84.9	.00257	483.9	.00000447	1.01972888
56.30	-58.8	-85.9	.00223	487.8	.00000440	1.01973328
54.70	-57.9	-86.0	.00225	493.8	.00000365	1.01973693
53.00	-57.2	-85.2	.00269	499.8	.00000428	1.01974121
51.30	-56.2	-85.2	.00273	506.9	.00000469	1.01974590
49.70	-55.4	-85.3	.00278	513.5	.00000449	1.01975039
48.20	-55.1	-85.4	.00282	518.5	.00000428	1.01975466
46.70	-54.7	-85.7	.00277	524.2	.00000428	1.01975894
45.20	-54.3	-85.2	.00310	530.0	.00000449	1.01976342
43.70	-54.1	-85.3	.00316	535.7	.00000478	1.01976821
42.30	-53.9	-86.6	.00263	541.2	.00000413	1.01977234
41.20	-53.9	-86.2	.00289	545.3	.00000310	1.01977544
39.80	-53.8	-86.9	.00266	551.2	.00000396	1.01977940
38.40	-53.6	-86.7	.00285	557.3	.00000393	1.01978333
37.10	-53.4	-86.9	.00280	563.3	.00000374	1.01978707
36.70	-53.6	-87.5	.00255	564.6	.00000109	1.01978816
34.80	-53.4	-87.8	.00255	573.7	.00000493	1.01979309
33.00	-53.4	-88.3	.00250	582.5	.00000463	1.01979773
31.60	-53.2	-88.6	.00247	590.3	.00000355	1.01980127
30.30	-53.2	-89.1	.00234	597.4	.00000317	1.01980445
28.90	-52.8	-89.7	.00218	606.6	.00000322	1.01980767
27.60	-52.4	-90.2	.00210	615.7	.00000283	1.01981050
26.40	-51.8	-90.8	.00198	625.1	.00000249	1.01981299
25.20	-51.7	-91.0	.00199	634.0	.00000243	1.01981542
23.80	-51.3	-91.2	.00202	645.6	.00000286	1.01981828
22.60	-50.6	-91.5	.00203	657.3	.00000247	1.01982075
21.60	-50.2	-92.1	.00190	667.0	.00000200	1.01982275
20.60	-49.8	-92.7	.00177	677.2	.00000186	1.01982461
19.60	-49.1	-92.8	.00182	689.0	.00000183	1.01982644
18.60	-48.6	-93.2	.00178	701.0	.00000183	1.01982827
17.60	-48.1	-93.6	.00175	713.8	.00000179	1.01983006

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
16.70	-47.6	-92.4	.00229	726.3	.00000185	1.01983191
16.00	-47.1	-92.1	.00257	736.9	.00000173	1.01983364
15.30	-46.4	-91.9	.00274	748.6	.00000189	1.01983553
14.80	-45.7	-91.8	.00290	757.9	.00000143	1.01983696
14.20	-45.6	-91.6	.00316	767.5	.00000185	1.01983881
13.70	-45.4	-90.9	.00374	775.9	.00000176	1.01984057
13.30	-45.4	-90.2	.00437	782.5	.00000165	1.01984222
12.80	-45.2	-88.1	.00668	791.7	.00000282	1.01984504
12.50	-45.1	-88.9	.00590	797.7	.00000192	1.01984696
12.20	-44.9	-89.1	.00581	803.8	.00000179	1.01984875
11.90	-44.8	-87.8	.00746	810.1	.00000203	1.01985078
11.70	-44.8	-85.9	.01071	814.0	.00000185	1.01985262
11.40	-44.6	-82.4	.02016	820.6	.00000472	1.01985735
11.10	-44.6	-79.9	.03097	826.9	.00000782	1.01986517
10.80	-44.4	-84.6	.01450	834.0	.00000696	1.01987213
10.60	-44.4	-82.4	.02168	838.5	.00000368	1.01987581
10.40	-44.4	-83.0	.01999	843.1	.00000425	1.01988006
10.10	-44.3	-81.5	.02648	850.7	.00000711	1.01988716

WASHINGTON,D.C. 5/10/65 1638Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1007.00	27.4	13.5	9.71014	299.9		
994.00	26.8	12.4	9.11437	300.5	.12485600	.12485600
981.00	26.2	11.2	8.55265	301.0	.11717878	.24203478
968.00	25.6	10.2	8.07432	301.6	.11028048	.35231526
955.00	24.7	12.4	9.49227	301.8	.11651258	.46882784
942.00	23.9	12.4	9.62529	302.2	.12679960	.59562744
929.50	22.6	11.2	9.03340	302.0	.11899629	.71462373
917.00	21.5	11.2	9.15836	302.1	.11601840	.83064213
904.00	20.1	12.4	10.03642	301.9	.12731178	.95795391
891.00	19.1	8.1	7.63629	302.0	.11721650	1.07517041
878.00	17.9	10.2	8.91384	302.1	.10977085	1.18494126
865.00	16.5	9.1	8.42743	301.9	.11501816	1.29995942
852.00	15.9	11.2	9.86814	302.6	.12134767	1.42130709
839.00	14.9	9.1	8.69224	302.9	.12310405	1.54441114
827.00	14.2	9.1	8.82015	303.4	.10721828	1.65162942
816.00	13.3	8.1	8.34758	303.6	.09634911	1.74797852
804.00	12.2	7.2	7.94702	303.7	.09976242	1.84774095
794.00	11.2	7.2	8.04840	303.8	.08160897	1.92934991
783.00	10.0	6.3	7.65309	303.7	.08812025	2.01747017
773.00	9.3	5.4	7.30194	304.0	.07630087	2.09377104
763.00	8.5	5.4	7.39878	304.3	.07500340	2.16877444
754.00	7.6	3.7	6.64554	304.4	.06448896	2.23326340
744.00	6.9	4.5	7.14175	304.7	.07034300	2.30360641
734.00	6.2	3.0	6.46302	305.1	.06941177	2.37301818
722.50	5.3	2.2	6.20952	305.6	.07435384	2.44737202
712.00	4.7	1.5	5.98316	306.2	.06531765	2.51268966
702.00	4.0	1.5	6.06922	306.7	.06149150	2.57418117
692.00	3.4	1.5	6.15780	307.3	.06238250	2.63656367
682.50	2.9	-3.2	4.30468	307.9	.05071078	2.68727446
674.00	2.3	-5.4	3.59396	308.4	.03425416	2.72152862
666.00	1.6	.0	5.76380	308.6	.03819478	2.75972340
657.00	1.1	-.6	5.53519	309.2	.05188291	2.81160630
649.00	.5	-1.3	5.30005	309.7	.04422526	2.85583156
641.00	-.1	-1.3	5.36676	310.0	.04353783	2.89936939
633.00	-.6	-1.3	5.43518	310.7	.04408939	2.94345878
625.00	-1.2	-3.2	4.70371	311.0	.04138306	2.98484184
616.00	-1.5	-4.3	4.32467	312.0	.04145664	3.02629848
607.00	-2.2	-4.3	4.38924	312.5	.04001266	3.06631114
598.50	-3.1	-5.4	4.05028	312.7	.03659981	3.10291095
590.00	-3.8	-6.0	3.91985	313.2	.03456423	3.13747518
582.00	-4.4	-6.0	3.97408	313.7	.03222001	3.16969518
574.00	-5.0	-7.0	3.68582	314.3	.03126477	3.20095995
566.00	-5.8	-6.5	3.91090	314.6	.03100689	3.23196684
558.00	-6.4	-7.0	3.79215	315.1	.03144088	3.26340772
550.00	-6.7	-8.0	3.53068	316.1	.02988897	3.29329669
543.00	-6.7	-9.8	3.03744	317.3	.02345747	3.31675416
536.00	-6.8	-11.1	2.73947	318.3	.02063173	3.33738589
528.00	-7.5	-11.9	2.58219	318.9	.02172095	3.35910684
522.20	-8.0	-11.1	2.81219	319.3	.01596288	3.37506972
516.20	-8.6	-11.1	2.84503	319.5	.01731794	3.39238766
510.00	-9.4	-11.1	2.87977	319.7	.01810898	3.41049664
504.00	-10.0	-11.1	2.91422	320.0	.01773663	3.42823327
497.80	-10.9	-11.5	2.84029	320.1	.01820296	3.44643623
491.30	-11.9	-12.3	2.67550	320.0	.01829208	3.46472831
485.00	-13.1	-12.7	2.61331	319.8	.01699966	3.48172797
478.70	-13.9	-13.9	2.38716	320.1	.01607284	3.49780081

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
472.00	-14.9	-14.3	2.33926	320.1	.01615655	3.51395737
465.60	-15.8	-14.6	2.29248	320.2	.01512399	3.52908136
459.00	-16.5	-15.0	2.25189	320.6	.01530242	3.54438378
452.20	-17.3	-15.3	2.21146	321.0	.01548502	3.55986880
446.00	-18.2	-15.3	2.24231	321.2	.01408839	3.57395719
440.00	-18.7	-15.7	2.20255	321.8	.01360665	3.58756384
433.00	-19.4	-16.0	2.16700	322.3	.01560545	3.60316929
427.00	-20.6	-16.7	2.06503	322.1	.01295513	3.61612442
420.50	-21.4	-19.7	1.56707	322.4	.01204516	3.62816958
414.80	-22.3	-18.3	1.83048	322.5	.00988059	3.63805017
409.00	-23.0	-19.7	1.61124	323.0	.01018465	3.64823481
403.20	-23.5	-28.1	.71508	323.7	.00688398	3.65511879
398.00	-24.2	-26.6	.83909	323.9	.00412327	3.65924206
392.50	-24.9	-25.3	.97162	324.3	.00508103	3.66432309
387.00	-25.8	-24.4	1.07972	324.4	.00575629	3.67007938
382.00	-26.7	-23.9	1.14641	324.4	.00567888	3.67575826
377.00	-27.5	-24.4	1.10841	324.6	.00575207	3.68151033
372.00	-28.4	-24.9	1.07274	324.7	.00556415	3.68707448
366.60	-28.8	-26.0	.97288	325.5	.00563586	3.69271034
361.00	-29.6	-29.4	.69437	325.9	.00476353	3.69747387
355.30	-30.0	-30.5	.62857	326.8	.00384730	3.70132117
350.00	-30.7	-33.6	.46224	327.3	.00294961	3.70427078
345.00	-31.2	-36.2	.35523	327.9	.00208536	3.70635614
340.00	-31.7	-36.2	.36046	328.6	.00182572	3.70818186
335.00	-32.3	-38.2	.29125	329.2	.00166252	3.70984438
330.50	-33.1	-40.6	.22537	329.4	.00118610	3.71103048
326.00	-33.9	-41.1	.21628	329.5	.00101396	3.71204445
321.00	-34.6	-41.7	.20537	330.0	.00107564	3.71312009
316.50	-35.6	-41.8	.20561	330.0	.00094357	3.71406366
312.00	-36.6	-42.4	.19527	330.0	.00092037	3.71498403
307.70	-37.3	-43.4	.17623	330.3	.00081502	3.71579905
302.60	-38.5	-44.3	.16005	330.2	.00087500	3.71667404
297.70	-39.4	-45.2	.14743	330.5	.00076869	3.71744274
293.00	-39.9	-43.5	.18278	331.2	.00079183	3.71823457
288.20	-41.0	-44.9	.15799	331.2	.00083454	3.71906911
284.00	-41.6	-45.4	.15085	331.8	.00066179	3.71973090
279.50	-42.6	-46.4	.13601	331.9	.00065860	3.72038950
275.20	-43.3	-47.7	.11734	332.3	.00055578	3.72094528
271.00	-44.1	-48.6	.10760	332.6	.00048201	3.72142729
267.00	-44.9	-49.2	.10101	332.8	.00042573	3.72185302
262.50	-45.9	-50.2	.09102	333.0	.00044087	3.72229388
258.40	-46.8	-50.0	.09449	333.2	.00038806	3.72268194
254.00	-47.8	-50.7	.08817	333.4	.00041005	3.72309199
249.50	-49.0	-51.3	.08324	333.3	.00039352	3.72348551
244.80	-49.9	-51.5	.08306	333.7	.00039877	3.72388428
240.50	-50.6	-51.5	.08454	334.3	.00036769	3.72425197
236.40	-51.6	-51.7	.08421	334.6	.00035299	3.72460496
232.30	-52.7	-53.4	.06881	334.5	.00032008	3.72492504
228.50	-53.3	-55.0	.05706	335.2	.00024402	3.72516906
224.70	-54.1	-56.7	.04615	335.6	.00020011	3.72536917
220.80	-55.1	-56.5	.04837	335.7	.00018807	3.72555724
217.00	-55.7	-56.7	.04779	336.4	.00018643	3.72574367
213.20	-56.6	-57.6	.04365	336.8	.00017728	3.72592095
209.30	-57.4	-58.7	.03842	337.2	.00016329	3.72608423
205.20	-58.1	-59.7	.03422	338.1	.00015195	3.72623618

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
201.50	-58.3	-62.4	.02394	339.5	.00010979	3.72634597
197.70	-59.0	-63.4	.02133	340.3	.00008777	3.72643374
194.10	-59.5	-63.4	.02173	341.3	.00007908	3.72651282
190.70	-59.9	-62.8	.02389	342.3	.00007913	3.72659194
187.30	-60.7	-62.8	.02432	342.9	.00008361	3.72667556
184.20	-61.4	-63.3	.02311	343.4	.00007501	3.72675057
181.00	-61.9	-63.7	.02221	344.3	.00007398	3.72682455
178.00	-62.1	-64.7	.01973	345.5	.00006418	3.72688873
175.00	-62.4	-65.5	.01787	346.8	.00005753	3.72694626
172.20	-62.9	-67.7	.01329	347.6	.00004451	3.72699077
168.70	-63.1	-69.4	.01048	349.2	.00004244	3.72703321
165.40	-63.7	-70.9	.00855	350.3	.00003204	3.72706525
162.20	-64.2	-74.3	.00525	351.4	.00002252	3.72708777
158.20	-64.5	-76.3	.00388	353.4	.00001863	3.72710639
155.80	-64.7	-76.8	.00368	354.5	.00000925	3.72711565
152.80	-65.6	-77.1	.00353	355.0	.00001103	3.72712667
149.80	-66.1	-78.0	.00312	356.1	.00001018	3.72713685
147.00	-67.0	-77.6	.00342	356.5	.00000934	3.72714619
144.20	-67.3	-77.5	.00353	358.0	.00000992	3.72715612
141.40	-67.0	-78.0	.00331	360.5	.00000976	3.72716588
139.00	-66.7	-79.4	.00269	362.8	.00000733	3.72717321
136.00	-65.9	-81.2	.00206	366.6	.00000726	3.72718047
133.00	-65.6	-81.8	.00189	369.4	.00000603	3.72718650
130.10	-65.0	-82.3	.00177	372.8	.00000541	3.72719191
127.50	-64.7	-84.2	.00133	375.4	.00000410	3.72719601
124.70	-64.5	-84.9	.00120	378.3	.00000359	3.72719960
122.00	-64.2	-84.8	.00124	381.1	.00000335	3.72720295
119.50	-63.4	-85.4	.00113	384.9	.00000302	3.72720598
117.00	-62.4	-86.4	.00098	389.1	.00000268	3.72720866
114.50	-61.9	-85.8	.00111	392.4	.00000265	3.72721131
112.00	-61.9	-85.7	.00115	394.9	.00000288	3.72721419
109.50	-61.9	-86.3	.00107	397.5	.00000282	3.72721700
107.00	-62.4	-86.0	.00115	399.2	.00000282	3.72721982
104.30	-62.9	-86.8	.00103	401.1	.00000298	3.72722280
101.80	-63.4	-86.6	.00109	402.9	.00000270	3.72722550
99.50	-63.9	-86.8	.00108	404.5	.00000253	3.72722803
97.30	-64.2	-86.9	.00108	406.6	.00000241	3.72723044
95.00	-64.5	-86.4	.00121	408.9	.00000268	3.72723313
93.00	-64.7	-86.7	.00117	410.8	.00000241	3.72723554
90.80	-65.0	-86.8	.00118	413.1	.00000262	3.72723816
88.80	-65.6	-86.9	.00118	414.6	.00000240	3.72724056
86.90	-65.9	-87.2	.00115	416.6	.00000225	3.72724281
85.00	-66.7	-87.2	.00117	417.5	.00000225	3.72724506
83.00	-66.4	-86.8	.00129	421.0	.00000250	3.72724757
81.00	-66.4	-86.7	.00134	423.9	.00000268	3.72725025
79.00	-66.4	-86.9	.00133	426.9	.00000273	3.72725298
77.00	-66.1	-86.9	.00137	430.7	.00000274	3.72725572
75.00	-65.6	-86.5	.00150	435.1	.00000292	3.72725864
73.30	-65.0	-85.9	.00170	439.2	.00000277	3.72726141
71.70	-64.7	-85.6	.00183	442.5	.00000288	3.72726429
70.00	-64.2	-85.7	.00184	446.7	.00000317	3.72726746
68.20	-63.1	-85.8	.00186	452.3	.00000340	3.72727086
66.50	-62.6	-85.9	.00188	456.7	.00000323	3.72727409
64.70	-61.6	-85.6	.00203	462.5	.00000358	3.72727767
63.00	-60.2	-85.7	.00205	469.2	.00000353	3.72728120

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
61.30	-59.2	-85.7	.00210	475.0	.00000359	3.72728479
59.70	-57.9	-85.7	.00216	481.6	.00000347	3.72728826
58.00	-56.8	-85.7	.00222	488.1	.00000380	3.72729206
56.30	-55.7	-85.8	.00225	494.7	.00000387	3.72729594
54.70	-54.9	-85.9	.00228	500.6	.00000370	3.72729963
53.00	-53.9	-86.4	.00216	507.5	.00000384	3.72730348
51.50	-52.9	-86.4	.00223	514.0	.00000335	3.72730683
49.80	-52.1	-86.2	.00238	520.8	.00000399	3.72731082
48.40	-51.6	-86.3	.00241	526.4	.00000341	3.72731423
47.00	-51.0	-86.6	.00236	532.1	.00000340	3.72731763
45.50	-50.3	-86.7	.00239	538.9	.00000364	3.72732127
44.20	-49.7	-86.8	.00242	544.7	.00000319	3.72732446
42.80	-49.6	-86.9	.00246	550.1	.00000347	3.72732793
41.50	-49.6	-87.0	.00249	555.0	.00000328	3.72733121
40.10	-49.0	-87.1	.00253	561.8	.00000358	3.72733478
38.80	-49.2	-87.6	.00239	566.7	.00000326	3.72733805
37.60	-49.2	-87.9	.00234	571.8	.00000289	3.72734094
36.30	-49.0	-87.9	.00242	578.0	.00000314	3.72734408
35.10	-49.2	-88.1	.00241	583.2	.00000295	3.72734703
34.00	-49.7	-88.2	.00245	587.1	.00000273	3.72734976
32.90	-49.9	-88.5	.00239	592.1	.00000271	3.72735247
31.90	-50.1	-88.6	.00242	596.9	.00000244	3.72735491
30.80	-50.5	-89.3	.00223	601.9	.00000259	3.72735751
29.80	-50.6	-90.4	.00188	607.1	.00000209	3.72735959
28.70	-50.1	-93.9	.00101	615.2	.00000161	3.72736120
27.60	-49.7	-92.7	.00132	623.1	.00000130	3.72736250
26.60	-49.6	-90.6	.00201	630.2	.00000170	3.72736420
25.60	-49.0	-88.7	.00295	638.7	.00000253	3.72736673
24.60	-48.7	-87.1	.00413	647.0	.00000361	3.72737034
23.50	-46.6	-85.5	.00567	661.6	.00000550	3.72737584
22.40	-45.4	-84.0	.00778	674.2	.00000754	3.72738338
21.60	-44.3	-83.4	.00897	684.6	.00000682	3.72739020
20.70	-43.7	-82.8	.01022	694.9	.00000881	3.72739901
19.90	-42.6	-82.0	.01226	706.2	.00000916	3.72740817
19.20	-41.6	-80.6	.01602	716.3	.00001009	3.72741826
18.40	-41.0	-80.1	.01834	727.0	.00001402	3.72743228
17.50	-39.9	-80.4	.01806	740.9	.00001670	3.72744898
16.70	-39.7	-81.0	.01723	751.8	.00001439	3.72746338
15.90	-39.5	-81.6	.01645	762.9	.00001374	3.72747712
15.20	-39.4	-80.6	.02024	773.3	.00001310	3.72749022
14.50	-39.2	-80.9	.02012	784.2	.00001441	3.72750463
13.90	-39.1	-80.8	.02155	794.3	.00001276	3.72751738
13.40	-39.1	-81.1	.02119	802.6	.00001089	3.72752827
12.90	-38.6	-80.9	.02261	812.9	.00001116	3.72753944
12.40	-38.3	-80.9	.02352	823.2	.00001176	3.72755119
12.00	-38.2	-80.9	.02431	831.5	.00000976	3.72756095
11.70	-38.0	-80.7	.02595	838.0	.00000769	3.72756864
11.50	-37.9	-80.9	.02536	842.7	.00000523	3.72757387
11.30	-37.7	-80.5	.02759	847.4	.00000539	3.72757927
11.00	-37.6	-81.3	.02478	854.5	.00000800	3.72758727
10.80	-37.5	-80.9	.02738	859.5	.00000532	3.72759259
10.50	-37.2	-80.1	.03172	867.5	.00000905	3.72760163
10.30	-36.9	-79.7	.03450	873.4	.00000675	3.72760838
10.00	-36.7	-79.9	.03463	881.3	.00001058	3.72761896

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
982.00	27.2	4.2	5.27617	301.9		
968.00	25.9	4.2	5.35313	301.8	.07592322	.07592322
955.00	25.1	5.1	5.75115	302.2	.07365055	.14957377
942.00	24.0	5.9	6.20390	302.3	.07929341	.22886719
929.00	23.1	5.1	5.91364	302.5	.08037114	.30923833
916.00	22.0	4.2	5.65978	302.7	.07676220	.38600053
902.00	20.6	5.1	6.09239	302.5	.08394377	.46994430
890.00	19.4	4.2	5.82668	302.4	.07297358	.54291788
877.00	18.5	3.4	5.57953	302.8	.07565309	.61857097
864.00	17.7	2.6	5.35096	303.3	.07249784	.69106881
851.00	16.7	1.9	5.15246	303.5	.06966525	.76073407
838.00	16.2	.4	4.71452	304.4	.06544398	.82617804
826.00	15.7	-.9	4.28461	305.1	.05509651	.88127455
813.00	14.6	-.9	4.35361	305.3	.05729409	.93856864
801.00	13.6	-3.4	3.58276	305.6	.04858981	.98715845
789.00	13.0	-5.1	3.14099	306.2	.04116566	1.02832411
778.00	12.2	-7.2	2.65816	306.6	.03254609	1.06087020
767.00	12.1	-7.7	2.57989	307.7	.02939707	1.09026727
757.00	12.1	-10.1	2.12794	308.9	.02401944	1.11428671
747.00	12.1	-10.5	2.07577	310.0	.02144738	1.13573408
737.00	11.9	-7.2	2.80670	311.1	.02491042	1.16064450
726.00	12.9	-22.1	.71999	313.4	.01979254	1.18043704
716.00	12.4	-30.2	.32396	314.2	.00532624	1.18576328
705.00	11.8	-28.7	.38516	314.9	.00397976	1.18974304
695.00	11.2	-26.6	.48159	315.5	.00442219	1.19416523
685.00	10.6	-22.9	.70772	316.1	.00606787	1.20023310
675.00	9.7	-18.5	1.10091	316.4	.00922765	1.20946075
665.00	8.6	-15.9	1.42557	316.6	.01289016	1.22235091
656.00	7.6	-15.9	1.44518	316.7	.01318197	1.23553288
646.00	6.4	-18.5	1.15042	316.8	.01324278	1.24877566
638.00	5.6	-18.5	1.16487	316.9	.00945014	1.25822580
629.00	4.7	-18.2	1.21710	317.3	.01093759	1.26916339
621.00	4.2	-18.5	1.19682	317.8	.00985271	1.27901609
614.00	3.5	-19.4	1.11218	318.0	.00824641	1.28726250
606.00	3.1	-21.1	.95658	318.7	.00844389	1.29570639
598.00	2.6	-23.6	.75333	319.5	.00697918	1.30268557
591.00	1.7	-25.1	.66191	319.4	.00505438	1.30773996
583.00	.9	-25.5	.64131	319.7	.00531922	1.31305918
576.00	.3	-24.6	.71174	320.2	.00483230	1.31789148
568.00	-.6	-24.1	.75632	320.3	.00599205	1.32388353
561.00	-1.3	-24.1	.76577	320.7	.00543600	1.32931954
554.00	-1.9	-23.9	.79376	321.1	.00556973	1.33488926
547.00	-2.7	-24.1	.78539	321.3	.00563981	1.34052907
540.00	-3.5	-25.1	.72449	321.5	.00539243	1.34592150
533.00	-4.5	-25.3	.71785	321.6	.00515120	1.35107270
527.50	-5.0	-26.2	.66287	322.0	.00387444	1.35494713
520.00	-5.5	-27.4	.59128	322.6	.00479902	1.35974616
513.40	-5.8	-29.4	.48860	323.5	.00363633	1.36338249
506.50	-5.8	-32.1	.37367	324.8	.00303553	1.36641802
500.00	-5.9	-33.0	.34646	325.8	.00238816	1.36880618
493.00	-6.5	-30.7	.44481	326.3	.00282596	1.37163214
486.40	-7.4	-32.1	.38912	326.5	.00280812	1.37444027
480.00	-8.3	-32.3	.38720	326.6	.00253490	1.37697516
473.80	-9.1	-32.1	.39947	326.9	.00248843	1.37946360
467.30	-9.8	-31.3	.44367	327.2	.00279613	1.38225973
461.00	-10.6	-31.4	.44141	327.6	.00284488	1.38510461

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
455.00	-11.2	-32.0	.42340	328.0	.00264734	1.38775195
449.00	-12.3	-32.8	.39249	328.0	.00249760	1.39024955
443.20	-13.0	-32.5	.41215	328.3	.00238106	1.39263061
437.10	-13.9	-32.8	.40318	328.4	.00253749	1.39516810
431.00	-14.8	-32.3	.43125	328.6	.00259693	1.39776503
425.00	-15.9	-32.1	.44538	328.5	.00268354	1.40044856
419.00	-16.8	-32.5	.43597	328.7	.00269799	1.40314655
413.00	-17.6	-33.0	.41949	329.0	.00261876	1.40576531
407.10	-18.6	-34.7	.35298	329.0	.00232528	1.40809059
401.30	-19.0	-40.3	.19287	329.9	.00161526	1.40970585
395.60	-19.4	-38.1	.24971	330.8	.00128709	1.41099294
390.00	-20.1	-39.1	.22535	331.1	.00135729	1.41235022
384.00	-20.9	-38.5	.24608	331.6	.00144315	1.41379337
378.00	-21.4	-39.3	.22914	332.4	.00145476	1.41524813
372.70	-22.3	-38.4	.25736	332.6	.00131550	1.41656363
367.00	-23.2	-30.4	.62063	332.9	.00255331	1.41911694
361.30	-24.2	-30.2	.64233	333.0	.00367288	1.42278983
355.80	-25.2	-30.7	.61650	333.1	.00353244	1.42632227
350.00	-26.2	-31.1	.60337	333.3	.00360981	1.42993207
344.80	-27.4	-31.6	.57985	333.2	.00313914	1.43307121
339.30	-28.3	-33.6	.47638	333.5	.00296392	1.43603513
334.00	-29.1	-38.9	.27082	333.9	.00202049	1.43805562
329.00	-30.0	-42.3	.18691	334.1	.00116768	1.43922330
324.00	-30.9	-40.8	.22599	334.3	.00105332	1.44027662
319.30	-31.8	-39.1	.27527	334.4	.00120199	1.44147861
315.00	-32.7	-39.4	.27118	334.5	.00119883	1.44267744
310.30	-33.2	-44.3	.15749	335.2	.00102791	1.44370535
305.60	-34.0	-55.0	.04262	335.5	.00047986	1.44418521
301.00	-34.4	-57.0	.03344	336.4	.00017852	1.44436373
296.00	-34.8	-57.0	.03401	337.5	.00017206	1.44453579
291.00	-35.7	-60.0	.02305	337.9	.00014555	1.44468135
286.10	-36.4	-61.6	.01902	338.5	.00010516	1.44478650
281.20	-37.4	-62.0	.01810	338.8	.00009277	1.44487928
276.40	-38.4	-62.7	.01675	339.0	.00008532	1.44496460
271.80	-39.1	-63.1	.01608	339.6	.00007702	1.44504163
267.00	-39.9	-62.4	.01818	340.2	.00008388	1.44512551
262.60	-40.6	-62.7	.01780	340.8	.00008075	1.44520625
258.00	-41.2	-63.4	.01630	341.6	.00008002	1.44528627
253.50	-42.0	-64.4	.01438	342.2	.00007044	1.44535671
249.00	-42.7	-65.6	.01245	342.8	.00006159	1.44541830
244.50	-43.5	-66.2	.01163	343.4	.00005527	1.44547357
240.00	-44.5	-66.4	.01140	343.8	.00005285	1.44552642
235.40	-45.3	-67.2	.01035	344.5	.00005104	1.44557746
231.30	-46.1	-68.2	.00910	345.0	.00004070	1.44561815
227.20	-46.8	-68.7	.00866	345.7	.00003715	1.44565530
222.90	-47.6	-69.5	.00792	346.3	.00003634	1.44569165
218.60	-48.1	-68.0	.00992	347.5	.00003913	1.44573078
214.30	-49.2	-65.9	.01378	347.8	.00005201	1.44578278
210.00	-49.7	-63.9	.01874	349.0	.00007135	1.44585413
205.80	-51.0	-62.2	.02404	349.0	.00009166	1.44594578
201.80	-51.9	-60.6	.03080	349.5	.00011191	1.44605769
197.80	-53.1	-57.9	.04527	349.7	.00015524	1.44621293
193.70	-54.1	-55.8	.06086	350.2	.00022201	1.44643494
190.00	-55.1	-55.8	.06205	350.5	.00023201	1.44666696
186.00	-56.1	-56.6	.05684	351.0	.00024264	1.44690959

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
182.30	-57.2	-57.3	.05258	351.3	.00020656	1.44711615
178.70	-57.8	-57.0	.05633	352.2	.00020005	1.44731620
175.00	-58.2	-57.8	.05166	353.6	.00020386	1.44752006
171.20	-58.9	-61.1	.03364	354.7	.00016536	1.44768542
167.50	-59.4	-71.0	.00837	356.2	.00007929	1.44776471
163.80	-59.8	-73.6	.00572	357.7	.00002660	1.44779131
160.30	-60.3	-74.4	.00519	359.1	.00001948	1.44781078
156.40	-61.0	-75.2	.00472	360.4	.00001973	1.44783051
153.60	-62.0	-76.2	.00407	360.6	.00001255	1.44784306
150.30	-62.5	-76.3	.00411	362.0	.00001377	1.44785683
147.10	-63.5	-76.3	.00420	362.5	.00001356	1.44787039
144.10	-64.6	-76.3	.00429	362.8	.00001298	1.44788337
141.20	-65.1	-76.8	.00404	363.9	.00001231	1.44789568
138.00	-65.4	-77.2	.00386	365.8	.00001289	1.44790857
135.00	-65.7	-78.0	.00351	367.6	.00001127	1.44791983
132.00	-66.0	-78.5	.00330	369.5	.00001040	1.44793023
129.20	-66.3	-79.5	.00287	371.3	.00000881	1.44793904
126.50	-66.5	-77.5	.00406	373.0	.00000955	1.44794859

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
988.00	21.9	10.1	7.87831	296.1		
968.00	20.7	10.1	8.04319	296.6	.16246355	.16246355
950.00	19.2	9.2	7.70723	296.7	.14464608	.30710962
932.00	18.2	7.5	6.96762	297.3	.13476849	.44187811
915.00	16.7	6.6	6.69424	297.3	.11849530	.56037341
900.00	15.0	5.0	6.09576	297.0	.09788229	.65825570
886.00	14.3	2.8	5.30001	297.6	.08139803	.73965372
873.00	13.5	5.8	6.63181	298.0	.07913928	.81879300
859.00	12.9	4.3	6.05594	298.8	.09062637	.90941937
847.00	11.8	2.8	5.54622	298.8	.07103334	.98045272
835.00	11.0	1.5	5.10725	299.2	.06522509	1.04567781
823.00	10.2	1.5	5.18234	299.6	.06299725	1.10867506
811.00	9.5	1.5	5.25967	300.1	.06393042	1.17260548
799.00	8.6	1.5	5.33934	300.4	.06489165	1.23749714
787.00	7.8	1.5	5.42147	300.9	.06588222	1.30337936
776.00	7.1	1.5	5.49900	301.3	.06128804	1.36466740
764.00	5.9	1.5	5.58614	301.4	.06786792	1.43253532
753.00	4.9	1.5	5.66849	301.5	.06316350	1.49569882
742.00	3.9	1.5	5.75330	301.7	.06410164	1.55980046
730.00	2.8	.8	5.57419	301.9	.06935169	1.62915215
718.00	1.7	.8	5.66820	302.1	.06883065	1.69798280
706.00	.7	.8	5.76544	302.5	.07000156	1.76798436
695.00	-.4	-1.0	5.06663	302.6	.06079198	1.82877634
684.00	-1.3	-4.3	3.90045	303.0	.05032526	1.87910160
674.00	-1.9	-2.2	4.74582	303.6	.04411346	1.92321506
663.00	-2.3	-4.8	3.85141	304.6	.04824960	1.97146466
653.00	-2.6	-7.2	3.18302	305.6	.03588979	2.00735445
643.00	-2.7	-16.7	1.37199	306.8	.02323970	2.03059416
633.00	-3.0	-24.5	.65660	307.9	.01034988	2.04094404
623.00	-3.2	-27.5	.49286	309.0	.00586455	2.04680859
612.00	-3.8	-24.5	.67916	310.0	.00657760	2.05338618
601.00	-4.4	-27.8	.49185	310.8	.00657193	2.05995812
591.00	-5.1	-32.5	.30625	311.5	.00407192	2.06403004
582.00	-5.6	-35.3	.23142	312.3	.00246888	2.06649892
572.00	-6.4	-34.9	.24621	312.9	.00243689	2.06893581
562.00	-6.9	-31.9	.34385	313.9	.00301050	2.07194631
553.00	-7.7	-28.4	.50527	314.4	.00389899	2.07584530
544.00	-8.6	-28.4	.51364	314.8	.00467862	2.08052392
536.00	-9.5	-30.6	.41287	315.1	.00378163	2.08430555
526.80	-9.9	-32.8	.33270	316.2	.00349958	2.08780514
517.60	-10.2	-33.7	.30777	317.4	.00300629	2.09081143
508.50	-11.5	-35.4	.26091	317.4	.00264032	2.09345175
500.00	-12.8	-37.1	.21976	317.4	.00208452	2.09553628
491.20	-13.0	-44.6	.09532	318.7	.00141461	2.09695089
483.00	-13.4	-45.6	.08641	319.8	.00076030	2.09771119
474.40	-13.9	-46.0	.08410	320.8	.00074814	2.09845933
466.20	-14.3	-45.3	.09265	322.0	.00073943	2.09919876
458.00	-15.3	-45.8	.08909	322.3	.00076032	2.09995908
450.00	-16.2	-44.8	.10167	322.9	.00077859	2.10073766
442.50	-17.2	-42.8	.13103	323.2	.00089039	2.10162805
435.20	-18.2	-43.3	.12543	323.4	.00095516	2.10258321
428.00	-19.2	-31.9	.45158	323.7	.00211962	2.10470283
420.40	-19.9	-26.5	.80557	324.4	.00487465	2.10957748
413.30	-20.7	-23.6	1.09662	325.0	.00689055	2.11646803
406.80	-21.7	-24.7	1.00046	325.2	.00695454	2.12342256
400.00	-22.5	-25.7	.91734	325.6	.00665355	2.13007611

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
393.70	-23.6	-27.7	.76528	325.8	.00540839	2.13548450
387.00	-24.6	-28.6	.70870	326.1	.00503857	2.14052308
380.50	-25.5	-27.5	.80737	326.5	.00502776	2.14555083
374.20	-26.3	-33.4	.43937	326.8	.00400738	2.14955822
368.00	-27.1	-37.0	.30295	327.4	.00234815	2.15190637
361.00	-27.8	-37.8	.28381	328.3	.00209557	2.15400194
353.80	-28.7	-42.9	.16188	329.0	.00163722	2.15563916
347.00	-29.7	-44.8	.13185	329.4	.00101906	2.15665822
340.50	-30.8	-45.6	.12258	329.8	.00084378	2.15750200
334.40	-31.8	-45.6	.12482	330.0	.00076997	2.15827197
328.70	-32.9	-47.5	.10049	330.2	.00065522	2.15892719
323.00	-34.0	-48.4	.09177	330.3	.00055909	2.15948628
317.30	-35.1	-48.1	.09755	330.5	.00055057	2.16003685
312.00	-36.0	-47.5	.10704	330.8	.00055324	2.16059008
306.80	-37.3	-46.0	.13005	330.6	.00062901	2.16121909
301.30	-38.3	-44.3	.16095	330.9	.00081657	2.16203566
296.00	-39.2	-44.4	.16190	331.3	.00087301	2.16290867
291.00	-40.2	-45.3	.14844	331.5	.00079168	2.16370036
286.00	-40.8	-47.5	.11549	332.3	.00067328	2.16437364
280.60	-41.8	-49.6	.09205	332.6	.00057177	2.16494541
275.30	-42.7	-50.4	.08452	333.1	.00047743	2.16542284
270.00	-43.8	-52.3	.06813	333.4	.00041276	2.16583560
264.70	-44.9	-53.4	.06040	333.7	.00034752	2.16618313
259.70	-45.9	-53.2	.06343	334.1	.00031587	2.16649900
254.80	-46.5	-52.7	.06865	334.9	.00033019	2.16682920
249.20	-47.4	-52.4	.07235	335.8	.00040285	2.16723205
244.00	-48.2	-50.6	.09338	336.6	.00043967	2.16767173
238.80	-49.1	-48.0	.13100	337.4	.00059529	2.16826701
234.00	-50.0	-48.9	.12009	338.0	.00061491	2.16888192
229.00	-50.9	-50.2	.10373	338.7	.00057097	2.16945289
224.20	-51.9	-51.7	.08806	339.1	.00046968	2.16992258
219.70	-52.9	-52.8	.07805	339.6	.00038137	2.17030394
215.00	-54.0	-54.2	.06671	340.0	.00034712	2.17065106
211.00	-55.4	-55.7	.05645	339.6	.00025135	2.17090242
205.90	-56.2	-56.0	.05566	340.7	.00029172	2.17119414
201.00	-57.3	-56.7	.05178	341.4	.00026859	2.17146273
196.50	-58.1	-58.0	.04500	342.3	.00022219	2.17168492
192.00	-59.0	-59.9	.03563	343.1	.00018512	2.17187004
187.90	-59.9	-60.2	.03472	343.8	.00014715	2.17201719
183.70	-60.9	-60.2	.03551	344.5	.00015049	2.17216767
179.70	-60.4	-65.7	.01689	347.4	.00010693	2.17227460
176.00	-59.9	-69.1	.01051	350.3	.00005171	2.17232631
172.00	-59.0	-71.2	.00788	354.1	.00003752	2.17236383
168.00	-58.6	-71.7	.00749	357.2	.00003137	2.17239520
164.20	-57.9	-72.8	.00645	360.6	.00002702	2.17242222
160.70	-57.3	-74.5	.00509	364.0	.00002061	2.17244282
157.20	-56.7	-73.9	.00577	367.3	.00001939	2.17246221
154.00	-56.4	-74.1	.00563	369.8	.00001860	2.17248081
150.50	-56.9	-74.8	.00520	371.6	.00001933	2.17250013
147.20	-57.3	-75.4	.00484	373.2	.00001690	2.17251703
143.80	-57.7	-75.3	.00501	374.9	.00001708	2.17253411
140.50	-58.1	-74.2	.00610	376.7	.00001870	2.17255281
136.80	-58.4	-71.4	.00970	379.2	.00002982	2.17258263
133.50	-58.8	-72.6	.00820	381.1	.00003013	2.17261276
130.20	-59.0	-71.2	.01041	383.4	.00003132	2.17264408

WASHINGTON,D.C. 7/30/65 1510Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
127.00	-58.8	-74.1	.00690	386.5	.00002827	2.17267235
124.00	-58.6	-74.6	.00653	389.6	.00002055	2.17269289
121.00	-58.1	-75.0	.00631	393.1	.00001964	2.17271253
118.00	-57.9	-75.5	.00590	396.3	.00001869	2.17273122
115.00	-57.9	-74.1	.00762	399.3	.00002068	2.17275190
112.00	-58.1	-73.8	.00819	401.9	.00002418	2.17277609
109.00	-58.6	-74.8	.00718	404.2	.00002350	2.17279959
106.30	-58.8	-75.5	.00655	406.7	.00001889	2.17281848
103.00	-59.0	-75.8	.00652	409.9	.00002199	2.17284048
99.80	-58.8	-76.2	.00634	414.1	.00002100	2.17286147
96.90	-58.6	-76.2	.00653	418.0	.00001904	2.17288052
94.00	-58.4	-76.1	.00681	422.1	.00001973	2.17290024
91.50	-58.1	-76.3	.00675	425.8	.00001730	2.17291754
89.00	-57.9	-75.8	.00755	429.6	.00001824	2.17293578
86.70	-57.7	-75.9	.00765	433.3	.00001784	2.17295362
84.50	-57.1	-76.3	.00731	437.8	.00001679	2.17297041
82.40	-57.3	-75.5	.00845	440.5	.00001688	2.17298730
80.20	-57.5	-74.7	.00986	443.5	.00002055	2.17300785
78.20	-57.7	-77.1	.00699	446.2	.00001720	2.17302504
76.20	-56.9	-78.2	.00601	451.3	.00001326	2.17303830
74.00	-56.4	-78.0	.00635	456.0	.00001387	2.17305218
72.00	-55.8	-76.8	.00788	460.9	.00001451	2.17306669
69.70	-55.0	-76.8	.00814	466.9	.00001879	2.17308548
67.80	-54.2	-76.5	.00889	472.3	.00001650	2.17310198
65.80	-53.7	-76.2	.00962	477.6	.00001888	2.17312086
63.80	-52.9	-76.5	.00945	483.6	.00001945	2.17314030
61.90	-52.5	-76.8	.00928	488.6	.00001815	2.17315845
60.00	-51.9	-76.8	.00945	494.2	.00001815	2.17317660
58.20	-51.8	-76.9	.00963	498.9	.00001752	2.17319413
55.20	-51.8	-76.8	.01027	506.5	.00003046	2.17322458
54.60	-51.8	-76.7	.01065	508.1	.00000639	2.17323098
52.90	-51.6	-76.5	.01140	513.2	.00001912	2.17325009
51.20	-51.2	-76.8	.01108	518.8	.00001949	2.17326958
49.70	-51.2	-77.2	.01073	523.3	.00001667	2.17328626
48.20	-51.0	-76.3	.01282	528.3	.00001802	2.17330427
46.70	-50.9	-75.7	.01455	533.5	.00002094	2.17332521
45.30	-50.9	-74.1	.01935	538.2	.00002421	2.17334943
44.00	-50.9	-76.3	.01404	542.7	.00002214	2.17337157
42.80	-51.0	-76.3	.01444	546.5	.00001743	2.17338900
41.60	-51.4	-77.8	.01174	550.1	.00001602	2.17340502
40.40	-51.8	-74.8	.01936	553.8	.00001903	2.17342405
39.20	-51.9	-76.3	.01576	558.1	.00002149	2.17344554
38.00	-52.3	-79.5	.00977	562.2	.00001563	2.17346117
36.90	-52.1	-80.7	.00818	567.4	.00001007	2.17347124
35.60	-51.8	-77.9	.01355	574.2	.00001441	2.17348565
34.50	-51.0	-75.5	.02018	581.3	.00001892	2.17350458
33.40	-50.7	-78.7	.01270	587.6	.00001845	2.17352302
32.20	-50.1	-80.3	.01006	595.2	.00001392	2.17353694
31.10	-49.8	-80.1	.01070	602.1	.00001164	2.17354858
30.00	-49.1	-80.3	.01079	610.2	.00001206	2.17356063
29.00	-48.7	-80.5	.01085	617.1	.00001104	2.17357168
27.90	-48.4	-80.8	.01067	625.0	.00001207	2.17358375
26.90	-48.2	-80.9	.01090	632.0	.00001100	2.17359474
25.90	-47.5	-79.1	.01533	640.8	.00001338	2.17360812
25.00	-47.4	-80.3	.01295	647.8	.00001298	2.17362110

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
24.20	-46.9	-78.7	.01752	655.3	.00001243	2.17363353
23.00	-46.9	-79.3	.01659	664.9	.00002088	2.17365441
22.40	-46.5	-80.3	.01446	670.9	.00000949	2.17366390
21.70	-45.7	-81.2	.01295	679.4	.00000978	2.17367367
21.00	-45.4	-81.9	.01190	686.8	.00000887	2.17368254
20.30	-44.9	-81.9	.01231	694.9	.00000864	2.17369118
19.70	-44.4	-82.9	.01057	702.4	.00000700	2.17369819
19.00	-44.0	-85.2	.00738	711.2	.00000641	2.17370459
18.40	-43.5	-87.8	.00488	719.2	.00000376	2.17370835
17.80	-43.4	-87.4	.00536	726.5	.00000313	2.17371148
17.20	-42.7	-88.0	.00502	735.6	.00000317	2.17371465
16.60	-42.4	-88.9	.00441	744.1	.00000288	2.17371753
16.10	-42.1	-89.4	.00417	751.6	.00000218	2.17371970
15.50	-41.8	-90.1	.00379	760.8	.00000243	2.17372213
15.10	-41.2	-90.4	.00372	768.6	.00000152	2.17372365
14.70	-40.8	-87.1	.00687	776.0	.00000216	2.17372581
14.30	-40.5	-87.2	.00693	783.1	.00000282	2.17372863
13.80	-40.0	-90.0	.00436	792.6	.00000288	2.17373151
13.40	-39.6	-91.1	.00364	800.8	.00000162	2.17373313
13.00	-39.2	-90.8	.00403	809.3	.00000156	2.17373469
12.60	-38.9	-90.6	.00425	817.5	.00000168	2.17373638
12.20	-38.1	-90.6	.00439	827.6	.00000176	2.17373814
11.80	-37.9	-90.6	.00454	836.6	.00000182	2.17373995
11.40	-37.6	-91.3	.00417	845.9	.00000177	2.17374173
11.00	-37.0	-91.5	.00412	856.6	.00000168	2.17374341
10.60	-36.6	-92.9	.00330	867.3	.00000151	2.17374492
10.30	-36.2	-91.9	.00408	876.0	.00000112	2.17374603
9.90	-36.0	-91.4	.00469	886.5	.00000179	2.17374782

WASHINGTON,D.C. 8/12/65 1524Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1008.00	25.2	24.9	19.98734	297.7		
996.00	24.1	21.6	16.51426	297.6	.22347829	.22347829
983.00	23.0	20.1	15.21658	297.6	.21045886	.43393715
970.00	22.1	20.1	15.42558	297.8	.20323800	.63717514
957.50	21.0	17.4	13.13393	297.8	.18213895	.81931409
944.00	20.1	17.4	13.32578	298.1	.18224722	1.00156131
931.00	19.2	16.1	12.43901	298.4	.17088822	1.17244953
918.00	17.8	13.8	10.83294	298.2	.15435416	1.32680368
906.00	17.0	13.8	10.97895	298.4	.13354166	1.46034534
892.00	15.8	12.6	10.36180	298.6	.15243335	1.61277869
878.00	14.5	12.6	10.52982	298.5	.14922525	1.76200394
861.00	13.7	9.7	8.79044	299.4	.16757305	1.92957699
847.00	14.5	-8.5	2.19397	301.6	.07845977	2.00803676
833.00	15.5	-17.9	.94281	304.1	.02240548	2.03044224
821.00	15.5	-25.8	.44126	305.4	.00847386	2.03891610
809.00	15.5	-30.1	.28887	306.7	.00447017	2.04338627
798.00	15.2	-32.1	.23827	307.5	.00295846	2.04634473
786.00	14.7	-31.1	.26785	308.3	.00309868	2.04944341
775.00	14.0	-29.2	.33002	308.9	.00335532	2.05279873
764.00	13.1	-25.4	.49418	309.1	.00462557	2.05742431
754.00	12.3	-23.5	.60798	309.4	.00562325	2.06304756
743.00	11.0	-21.8	.72406	309.3	.00747567	2.07052323
732.00	10.2	-20.3	.85003	309.8	.00883412	2.07935736
721.00	9.3	-21.8	.74618	310.2	.00895827	2.08831562
710.00	8.4	-20.1	.89810	310.5	.00922805	2.09754367
699.00	7.7	-17.9	1.12388	311.1	.01134780	2.10889147
688.00	6.7	-18.2	1.11116	311.4	.01254350	2.12143497
677.00	5.9	-19.3	1.01677	312.0	.01194240	2.13337737
666.00	5.1	-20.9	.88882	312.5	.01069462	2.14407200
655.00	4.2	-18.7	1.10698	313.0	.01120088	2.15527287
644.00	3.3	-15.2	1.57565	313.6	.01505548	2.17032835
633.00	2.1	-16.4	1.42679	313.7	.01685034	2.18717869
622.00	1.0	-16.4	1.45208	314.0	.01615687	2.20333555
610.00	.0	-19.8	1.07267	314.6	.01545757	2.21879312
599.00	-.8	-20.1	1.06481	315.3	.01199600	2.23078912
588.00	-1.7	-20.9	1.00692	315.9	.01162702	2.24241614
577.00	-2.8	-21.6	.95544	316.3	.01101318	2.25342932
566.00	-3.8	-20.3	1.09977	317.0	.01153432	2.26496364
556.00	-4.7	-21.1	1.04009	317.5	.01091760	2.27588125
547.00	-5.6	-22.3	.93918	317.9	.00908844	2.28496969
539.00	-6.3	-25.0	.73110	318.5	.00681747	2.29178716
531.00	-7.3	-24.4	.79063	318.6	.00621136	2.29799852
522.90	-8.2	-28.3	.53678	318.9	.00548591	2.30348442
513.00	-9.1	-29.4	.48987	319.5	.00518556	2.30866998
504.00	-10.0	-27.6	.60140	320.1	.00501090	2.31368089
495.00	-10.8	-31.1	.42542	320.8	.00471495	2.31839584
487.00	-11.4	-33.6	.33190	321.5	.00309108	2.32148692
478.50	-12.0	-36.9	.23523	322.3	.00245951	2.32394643
470.50	-12.7	-39.1	.18883	323.1	.00173084	2.32567728
463.00	-13.7	-39.3	.18671	323.3	.00143698	2.32711425
455.50	-14.7	-36.4	.26179	323.6	.00171617	2.32883042
448.50	-15.7	-35.5	.29485	323.8	.00198796	2.33081838
441.00	-16.6	-36.4	.27040	324.2	.00216292	2.33298130
434.00	-17.5	-38.7	.21315	324.6	.00172693	2.33470823
427.00	-18.5	-41.7	.15417	324.8	.00131182	2.33602005
420.30	-19.3	-42.0	.15084	325.1	.00104260	2.33706266

WASHINGTON,D.C. 8/12/65 1524Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
414.00	-20.0	-42.1	.15121	325.7	.00097084	2.33803350
408.00	-20.9	-42.2	.15157	326.0	.00092687	2.33896036
402.00	-21.6	-43.6	.13126	326.4	.00086582	2.33982618
395.40	-22.6	-44.6	.11853	326.6	.00084111	2.34066729
389.00	-23.8	-44.9	.11632	326.6	.00076684	2.34143414
382.20	-24.9	-45.0	.11705	326.7	.00080965	2.34224379
375.50	-26.1	-45.5	.11246	326.9	.00078455	2.34302834
369.50	-27.4	-46.3	.10433	326.7	.00066361	2.34369195
362.80	-28.3	-46.7	.10045	327.1	.00069998	2.34439193
356.00	-29.2	-46.6	.10349	327.7	.00070754	2.34509946
350.00	-30.3	-46.1	.11265	327.8	.00066166	2.34576112
344.00	-31.2	-45.6	.12134	328.2	.00071628	2.34647740
338.00	-32.3	-45.1	.13082	328.4	.00077188	2.34724928
332.70	-33.1	-47.0	.10593	328.8	.00064015	2.34788944
327.40	-33.8	-47.9	.09641	329.3	.00054713	2.34843656
322.20	-34.5	-48.6	.08982	329.9	.00049408	2.34893064
317.00	-35.2	-49.0	.08747	330.4	.00047037	2.34940101
311.80	-35.9	-49.3	.08520	331.0	.00045811	2.34985912
306.50	-36.9	-50.1	.07883	331.3	.00044353	2.35030265
300.50	-38.0	-50.9	.07245	331.5	.00046308	2.35076573
295.00	-39.3	-51.6	.06796	331.4	.00039402	2.35115975
289.50	-40.4	-52.1	.06516	331.7	.00037356	2.35153331
284.20	-41.6	-52.5	.06309	331.7	.00034679	2.35188010
279.00	-42.7	-52.7	.06296	331.9	.00033443	2.35221453
273.90	-43.5	-53.3	.05920	332.5	.00031787	2.35253240
269.00	-44.6	-53.8	.05620	332.6	.00028850	2.35282090
264.00	-45.4	-54.1	.05504	333.2	.00028378	2.35310468
259.00	-46.6	-54.3	.05501	333.3	.00028075	2.35338543
254.30	-47.6	-54.6	.05385	333.6	.00026104	2.35364647
249.60	-48.4	-55.0	.05223	334.1	.00025436	2.35390083
245.00	-49.0	-55.3	.05117	335.1	.00024268	2.35414352
240.60	-49.5	-55.6	.05012	336.0	.00022739	2.35437091
236.20	-49.9	-58.1	.03675	337.3	.00019501	2.35456592
231.80	-50.4	-60.2	.02840	338.2	.00014624	2.35471216
227.50	-51.3	-61.2	.02508	338.7	.00011730	2.35482946
223.20	-51.7	-61.8	.02346	339.9	.00010647	2.35493593
219.00	-52.3	-62.6	.02153	340.9	.00009640	2.35503232
215.00	-53.0	-63.5	.01937	341.5	.00008346	2.35511579
211.00	-54.2	-62.8	.02172	341.5	.00008383	2.35519962
206.70	-55.0	-62.2	.02393	342.3	.00010012	2.35529974
202.60	-55.8	-62.9	.02219	342.9	.00009646	2.35539620
198.70	-56.5	-63.1	.02220	343.8	.00008832	2.35548452
194.70	-57.6	-62.9	.02309	344.1	.00009242	2.35557693
191.00	-58.7	-62.9	.02354	344.2	.00008802	2.35566495
187.20	-59.3	-60.9	.03165	345.1	.00010699	2.35577194
183.50	-59.8	-60.5	.03419	346.3	.00012429	2.35589623
180.00	-59.6	-62.0	.02828	348.6	.00011154	2.35600777
176.60	-59.3	-64.3	.02102	350.9	.00008550	2.35609327
173.30	-59.3	-66.3	.01617	352.8	.00006260	2.35615587
170.20	-59.3	-67.9	.01299	354.6	.00004612	2.35620199
167.20	-59.6	-68.9	.01138	356.0	.00003730	2.35623929
164.00	-59.8	-68.8	.01184	357.6	.00003789	2.35627718
160.70	-60.3	-67.4	.01475	358.9	.00004476	2.35632195
157.50	-60.8	-68.3	.01336	360.2	.00004590	2.35636784
154.20	-61.2	-69.9	.01070	361.5	.00004049	2.35640833

WASHINGTON,D.C. 8/12/65 1524Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
151.30	-61.7	-70.5	.01004	362.7	.00003067	2.35643899
148.40	-62.0	-70.1	.01078	364.2	.00003079	2.35646978
145.30	-62.2	-69.9	.01135	366.0	.00003499	2.35650477
142.20	-62.5	-70.4	.01079	367.8	.00003500	2.35653977
139.10	-62.7	-70.7	.01058	369.7	.00003378	2.35657355
136.00	-63.0	-71.1	.01016	371.6	.00003280	2.35660635
133.70	-63.0	-71.4	.00991	373.5	.00002354	2.35662989
131.00	-63.0	-71.8	.00949	375.6	.00002672	2.35665661

WASHINGTON,D.C. 9/7/65 1830Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1017.10	26.8	41.5	9.85714	298.5		
1012.00	26.2	41.5	9.90760	298.4	.05142844	.05142844
1006.00	25.6	26.7	22.43008	298.3	.09899251	.15042095
1000.00	24.9	17.3	12.55175	298.0	.10708679	.25750774
992.00	23.9	9.6	7.60255	297.8	.08226208	.33976983
984.00	23.2	7.8	6.77505	297.7	.05868384	.39845367
975.00	22.5	8.7	7.25911	297.8	.06444231	.46289597
965.00	21.6	8.7	7.33522	297.7	.07446055	.53735653
954.00	20.8	8.7	7.42081	298.0	.08281408	.62017061
941.00	19.1	7.8	7.08817	297.4	.09623264	.71640325
928.00	18.2	7.0	6.76906	297.7	.09190987	.80831312
914.00	17.4	7.8	7.30002	298.1	.10049304	.90880616
900.00	16.2	6.1	6.58403	298.2	.09917139	1.00797755
886.00	14.9	7.8	7.53351	298.2	.10083920	1.10881674
870.00	13.8	7.8	7.67377	298.6	.12414059	1.23295733
855.50	13.3	6.1	6.93033	299.5	.10804006	1.34099740
840.50	12.8	4.6	6.32257	300.6	.10142477	1.44242217
826.50	12.5	-5.2	2.98663	301.7	.06649394	1.50891611
813.00	12.4	-12.8	1.55517	302.9	.03128266	1.54019877
800.00	11.7	-14.8	1.30938	303.7	.01899953	1.55919831
788.00	11.4	-17.6	1.02728	304.6	.01430602	1.57350433
774.00	10.8	-18.7	.93911	305.5	.01404554	1.58754987
760.00	9.9	-21.1	.76314	306.1	.01215883	1.59970869
746.00	9.0	-5.2	3.31062	306.8	.02909815	1.62880684
732.00	8.7	-13.5	1.62074	308.1	.03522384	1.66403069
718.00	8.6	-13.1	1.70492	309.7	.02375461	1.68778530
704.00	7.7	-14.2	1.58153	310.4	.02347460	1.71125990
690.00	6.5	-16.1	1.35030	310.9	.02094157	1.73220147
676.00	5.5	-15.5	1.46070	311.6	.02007847	1.75227994
662.00	4.8	-10.5	2.33996	312.7	.02714741	1.77942735
649.00	4.1	-11.3	2.22730	313.7	.03029293	1.80972028
636.00	3.3	-12.0	2.12450	314.7	.02886388	1.83858415
622.00	2.1	-10.9	2.40739	315.2	.03237049	1.87095465
609.00	.7	-12.4	2.14550	315.6	.03019758	1.90115222
597.00	-.5	-12.4	2.18877	315.9	.02653623	1.92768845
585.00	-1.6	-12.4	2.23383	316.5	.02707705	1.95476550
572.50	-2.4	-14.5	1.88851	317.5	.02629033	1.98105583
559.00	-3.3	-13.5	2.12404	318.6	.02763730	2.00869313
547.00	-4.1	-12.4	2.38961	319.6	.02763446	2.03632759
535.00	-5.2	-12.8	2.36636	320.4	.02911805	2.06544563
522.00	-6.5	-13.1	2.34750	321.1	.03126527	2.09671091
510.70	-7.9	-14.5	2.11782	321.4	.02574384	2.12245475
499.00	-8.4	-20.3	1.25174	322.9	.02011411	2.14256886
487.50	-9.3	-22.7	1.01067	324.0	.01327427	2.15584312
476.00	-10.6	-24.7	.84900	324.6	.01091127	2.16675439
464.70	-12.0	-25.2	.83400	325.1	.00970297	2.17645736
453.50	-13.4	-22.7	1.08657	325.6	.01097462	2.18743198
442.20	-14.7	-24.7	.91399	326.4	.01153381	2.19896579
431.80	-16.0	-24.3	.97759	326.8	.01003692	2.20900270
422.00	-17.3	-29.5	.58812	327.4	.00782850	2.21683121
412.30	-18.6	-38.9	.22024	327.9	.00400054	2.22083175
402.80	-19.6	-41.6	.16498	328.8	.00186715	2.22269890
394.80	-20.3	-41.3	.17483	329.7	.00138697	2.22408587
388.40	-21.1	-42.0	.16280	330.3	.00110246	2.22518833
382.20	-21.9	-43.0	.14811	330.8	.00098348	2.22617181
376.60	-22.4	-46.6	.09784	331.5	.00070269	2.22687450

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
371.20	-23.3	-48.5	.07888	331.7	.00048687	2.22736137
366.60	-24.2	-47.9	.08617	331.7	.00038736	2.22774872
361.00	-24.8	-46.7	.10092	332.3	.00053453	2.22828326
355.20	-26.0	-45.8	.11477	332.3	.00063826	2.22892152
349.80	-26.9	-44.8	.13072	332.5	.00067635	2.22959787
344.20	-27.8	-44.3	.14083	332.8	.00077587	2.23037374
338.80	-28.8	-44.3	.14308	332.9	.00078221	2.23115595
333.20	-29.8	-44.1	.14900	333.2	.00083449	2.23199044
328.00	-30.8	-46.7	.11108	333.2	.00068998	2.23268043
322.30	-31.6	-47.3	.10581	333.8	.00063072	2.23331115
316.80	-32.5	-45.9	.12727	334.3	.00065403	2.23396517
311.20	-33.1	-42.8	.18636	335.0	.00089608	2.23486125
306.20	-34.1	-39.3	.28114	335.2	.00119260	2.23605385
301.00	-34.9	-38.6	.31015	335.7	.00156870	2.23762256
295.50	-35.6	-39.2	.29531	336.5	.00169897	2.23932153
290.30	-36.5	-39.9	.27754	337.0	.00151980	2.24084133
285.20	-37.7	-39.7	.29002	337.0	.00147681	2.24231814
280.30	-38.5	-40.0	.28365	337.4	.00143416	2.24375230
275.40	-39.6	-40.2	.28504	337.6	.00142172	2.24517402
270.60	-40.6	-40.2	.29010	337.8	.00140849	2.24658251
266.00	-41.5	-40.4	.28758	338.1	.00135575	2.24793826
261.20	-42.5	-41.6	.25446	338.5	.00132741	2.24926567
256.80	-43.6	-47.2	.13424	338.5	.00087257	2.25013824
252.30	-44.6	-45.4	.16918	338.8	.00069661	2.25083485
247.50	-45.5	-46.3	.15568	339.2	.00079556	2.25163041
243.00	-46.5	-46.2	.16039	339.5	.00072564	2.25235605
238.40	-47.4	-47.9	.13252	340.1	.00068742	2.25304347
233.80	-48.3	-51.8	.08339	340.6	.00050673	2.25355020
229.50	-49.3	-54.5	.06051	340.8	.00031571	2.25386591
225.30	-50.1	-56.5	.04739	341.5	.00023121	2.25409712
221.00	-51.0	-59.7	.03173	342.0	.00017355	2.25427067
216.80	-51.7	-63.5	.01917	342.7	.00010906	2.25437973
212.70	-51.4	-64.4	.01709	345.2	.00007583	2.25445557
208.40	-50.6	-65.6	.01480	348.4	.00006995	2.25452551
204.00	-50.8	-65.9	.01440	350.2	.00006555	2.25459106
199.70	-51.5	-66.1	.01429	351.1	.00006294	2.25465401
195.60	-52.7	-67.0	.01297	351.4	.00005703	2.25471103
191.60	-53.7	-67.4	.01236	351.9	.00005169	2.25476272
187.60	-54.9	-67.6	.01225	352.1	.00005023	2.25481296
183.60	-56.2	-67.8	.01228	352.2	.00005005	2.25486301
179.70	-57.4	-68.1	.01193	352.3	.00004816	2.25491117
175.80	-58.3	-68.7	.01115	353.0	.00004591	2.25495708
172.00	-59.3	-69.3	.01051	353.7	.00004198	2.25499906
168.20	-60.2	-69.9	.00980	354.4	.00003937	2.25503843
164.80	-61.4	-70.1	.00970	354.4	.00003383	2.25507225
161.20	-62.4	-70.4	.00951	355.0	.00003527	2.25510752
157.70	-64.0	-70.6	.00943	354.5	.00003381	2.25514133
154.20	-64.8	-71.4	.00850	355.4	.00003201	2.25517334
150.80	-65.9	-71.4	.00869	355.8	.00002980	2.25520314
147.20	-66.8	-72.5	.00758	356.7	.00002988	2.25523302
143.70	-67.1	-73.6	.00659	358.7	.00002529	2.25525831
140.00	-67.1	-74.4	.00597	361.4	.00002371	2.25528201
136.80	-67.4	-75.0	.00551	363.2	.00001875	2.25530076
133.60	-67.7	-75.8	.00502	365.2	.00001720	2.25531796
130.50	-68.0	-76.5	.00462	367.1	.00001523	2.25533319

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
127.40	-68.3	-77.1	.00429	369.0	.00001407	2.25534725
124.60	-68.0	-78.2	.00368	372.0	.00001137	2.25535862
121.70	-67.7	-79.3	.00313	375.0	.00001007	2.25536869
118.80	-67.4	-79.3	.00321	378.2	.00000937	2.25537807
116.10	-67.4	-80.6	.00264	380.7	.00000805	2.25538611
113.30	-68.0	-81.2	.00245	382.2	.00000726	2.25539337
110.80	-68.3	-80.6	.00280	384.0	.00000669	2.25540006
108.20	-68.3	-79.8	.00325	386.7	.00000802	2.25540808
104.50	-68.0	-80.0	.00323	391.1	.00001222	2.25542030
102.00	-67.7	-80.3	.00317	394.4	.00000817	2.25542846
99.40	-67.4	-80.5	.00317	397.9	.00000840	2.25543687
96.80	-67.1	-81.6	.00270	401.5	.00000778	2.25544465
94.30	-67.1	-81.8	.00269	404.6	.00000687	2.25545152
91.80	-66.8	-82.5	.00245	408.3	.00000656	2.25545807
89.40	-65.9	-82.1	.00268	413.1	.00000627	2.25546435
86.80	-65.1	-84.2	.00195	418.3	.00000612	2.25547047
84.20	-64.0	-83.9	.00211	424.2	.00000538	2.25547585
82.00	-63.5	-84.2	.00206	428.5	.00000468	2.25548053
79.70	-62.7	-83.9	.00223	433.6	.00000504	2.25548556
77.50	-62.2	-83.3	.00253	438.1	.00000533	2.25549090
75.00	-61.7	-83.6	.00249	443.3	.00000639	2.25549729
72.90	-61.4	-84.4	.00221	447.4	.00000502	2.25550231
70.70	-60.7	-85.2	.00199	452.9	.00000471	2.25550702
68.50	-60.7	-86.0	.00178	457.1	.00000423	2.25551125
66.50	-60.7	-86.8	.00161	460.9	.00000346	2.25551471
64.50	-60.4	-86.2	.00183	465.5	.00000350	2.25551821
62.40	-59.7	-85.7	.00206	471.5	.00000416	2.25552237
60.50	-59.0	-86.2	.00195	477.2	.00000387	2.25552624
58.50	-58.3	-85.7	.00220	483.4	.00000423	2.25553048
56.60	-57.7	-85.7	.00228	489.5	.00000434	2.25553481
54.70	-57.2	-86.4	.00211	495.3	.00000425	2.25553906
53.00	-56.8	-86.7	.00206	500.8	.00000361	2.25554267
51.20	-55.9	-87.0	.00202	507.8	.00000374	2.25554641
49.60	-55.7	-86.6	.00225	512.9	.00000347	2.25554988
48.00	-55.3	-87.4	.00199	518.7	.00000346	2.25555333
46.50	-54.9	-87.1	.00218	524.5	.00000319	2.25555652
45.00	-54.7	-86.7	.00243	529.9	.00000352	2.25556004
43.70	-54.1	-88.1	.00195	535.8	.00000289	2.25556293
42.20	-53.7	-88.0	.00205	542.2	.00000305	2.25556599
41.60	-53.1	-87.8	.00217	545.9	.00000128	2.25556727
40.30	-52.7	-88.0	.00215	551.8	.00000286	2.25557013
39.00	-52.1	-88.0	.00222	558.5	.00000289	2.25557302
37.70	-51.7	-88.2	.00221	564.9	.00000294	2.25557595
36.40	-51.4	-88.8	.00206	571.6	.00000283	2.25557879
35.10	-51.0	-89.1	.00201	578.5	.00000270	2.25558148
33.90	-50.8	-89.5	.00195	584.8	.00000241	2.25558390
32.60	-50.4	-89.1	.00216	592.4	.00000271	2.25558661
31.40	-49.9	-89.4	.00215	600.2	.00000264	2.25558925
30.20	-49.7	-89.7	.00209	607.4	.00000259	2.25559184
28.90	-49.3	-90.2	.00200	616.1	.00000271	2.25559455
27.70	-49.0	-90.6	.00195	624.6	.00000241	2.25559697
26.40	-48.8	-90.2	.00219	633.7	.00000274	2.25559971
25.20	-48.1	-90.2	.00229	644.2	.00000274	2.25560245
23.90	-47.7	-91.4	.00196	655.1	.00000282	2.25560527
22.60	-47.6	-92.6	.00165	666.1	.00000238	2.25560765

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
21.90	-47.4	-91.9	.00193	672.7	.00000127	2.25560892
20.20	-47.2	-92.2	.00199	688.9	.00000340	2.25561231
19.20	-47.1	-92.9	.00184	699.5	.00000195	2.25561427
18.20	-46.9	-92.9	.00194	710.8	.00000192	2.25561619
17.30	-46.5	-93.2	.00193	722.3	.00000177	2.25561796
16.40	-46.2	-93.4	.00193	734.5	.00000177	2.25561973
15.70	-45.7	-94.0	.00180	745.3	.00000133	2.25562106
15.00	-45.4	-94.2	.00183	756.2	.00000130	2.25562236
14.40	-44.9	-94.0	.00196	766.7	.00000115	2.25562350
13.80	-44.4	-94.5	.00188	777.8	.00000116	2.25562467
13.30	-44.1	-94.8	.00183	787.1	.00000094	2.25562561
12.70	-43.7	-95.5	.00170	798.7	.00000107	2.25562668
12.30	-43.4	-95.6	.00170	807.2	.00000069	2.25562736
11.90	-42.8	-95.1	.00193	817.1	.00000073	2.25562809
11.50	-42.5	-95.1	.00199	826.2	.00000079	2.25562888
11.10	-42.2	-95.6	.00188	835.8	.00000079	2.25562967
10.80	-41.9	-98.3	.00114	843.5	.00000045	2.25563012
10.50	-41.4	-99.1	.00100	852.0	.00000031	2.25563043
10.30	-41.1	-97.7	.00134	857.8	.00000024	2.25563067
10.00	-40.8	-96.6	.00171	866.2	.00000046	2.25563113

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1021.50	13.0	-2.6	3.00351	284.4		
1015.00	12.2	-2.0	3.19178	284.1	.02054554	.02054554
1007.00	11.5	-2.0	3.21727	284.1	.02615929	.04670483
998.00	10.9	-3.3	2.90867	284.2	.02812921	.07483403
988.00	10.1	-3.9	2.78919	284.3	.02907060	.10390463
973.00	9.4	-5.1	2.55116	284.7	.04086989	.14477453
959.00	8.8	-5.7	2.46547	285.3	.03583296	.18060748
945.00	7.7	-6.3	2.38143	285.4	.03462058	.21522807
930.00	6.7	-8.4	2.01143	285.7	.03361873	.24884680
915.00	5.5	-9.8	1.79441	285.8	.02912627	.27797307
899.00	4.8	-10.3	1.75030	286.5	.02893628	.30690935
886.00	3.8	-12.5	1.45593	286.7	.02126570	.32817505
873.00	3.3	-14.1	1.27505	287.4	.01811355	.34628861
859.00	4.3	-12.5	1.50181	289.8	.01983458	.36612318
844.00	4.5	-12.1	1.58942	291.4	.02365722	.38978040
830.00	3.6	-11.2	1.74830	291.9	.02384074	.41362114
815.00	2.8	-8.4	2.29630	292.5	.03095348	.44457462
800.00	2.1	-6.3	2.81502	293.3	.03911711	.48369174
785.00	.9	-6.8	2.73756	293.7	.04249407	.52618581
770.00	-.0	-8.9	2.32413	294.3	.03873725	.56492306
755.00	-.8	-9.4	2.27275	295.1	.03518006	.60010312
741.00	-1.5	-16.0	1.26314	295.9	.02525629	.62535942
727.00	-2.3	-25.8	.50140	296.7	.01260379	.63796321
712.00	-3.1	-39.0	.12513	297.6	.00479482	.64275803
698.00	-4.2	-44.4	.06897	298.1	.00138642	.64414445
685.00	-5.0	-10.3	2.29912	298.8	.01570669	.65985113
672.00	-6.1	-10.3	2.34377	299.1	.03079456	.69064569
660.00	-6.4	-10.8	2.29300	300.4	.02838823	.71903393
648.50	-6.6	-16.7	1.35183	301.6	.02138537	.74041930
636.00	-6.9	-32.4	.28948	303.0	.01046750	.75088680
625.00	-7.9	-33.2	.26892	303.4	.00313389	.75402069
613.00	-8.8	-20.9	.96571	304.0	.00755893	.76157962
598.50	-10.1	-19.4	1.14219	304.6	.01559408	.77717370
584.00	-11.2	-24.1	.73890	305.5	.01391621	.79108991
571.00	-12.3	-23.3	.81538	306.1	.01030900	.80139890
557.50	-13.5	-25.1	.70164	306.9	.01044881	.81184772
545.00	-14.2	-25.8	.66902	308.0	.00874136	.82058908
533.00	-14.8	-25.5	.70000	309.2	.00838169	.82897078
522.00	-16.1	-22.8	.93913	309.6	.00919914	.83816992
510.40	-16.8	-25.3	.74880	310.7	.00998975	.84815967
499.00	-17.9	-26.0	.71368	311.3	.00850624	.85666591
487.00	-19.1	-25.3	.78483	312.0	.00917450	.86584041
474.50	-20.5	-28.0	.61401	312.6	.00892112	.87476152
462.30	-22.0	-27.6	.65815	313.1	.00791851	.88268003
450.70	-23.5	-23.6	1.00690	313.5	.00985432	.89253435
439.00	-24.9	-25.1	.89130	314.1	.01133105	.90386540
427.40	-26.2	-26.9	.76103	314.8	.00977905	.91364445
416.00	-27.5	-28.4	.67058	315.6	.00832666	.92197111
406.00	-28.8	-28.8	.65882	316.2	.00678259	.92875370
395.80	-30.3	-33.9	.39549	316.4	.00548667	.93424037
385.00	-31.9	-34.7	.37288	316.9	.00423387	.93847424
375.00	-33.4	-37.1	.29452	317.4	.00340506	.94187930
364.80	-35.2	-38.4	.26329	317.4	.00290284	.94478214
354.40	-36.6	-42.1	.17651	318.1	.00233361	.94711575
344.40	-38.0	-46.0	.11603	318.9	.00149255	.94860829
334.40	-39.6	-46.5	.11249	319.4	.00116594	.94977424

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
325.00	-41.2	-48.9	.08648	319.8	.00095426	.95072849
315.00	-42.8	-47.0	.11250	320.4	.00101520	.95174369
306.00	-44.7	-46.7	.12004	320.5	.00106777	.95281146
297.00	-46.2	-48.7	.09684	321.0	.00099587	.95380734
288.30	-47.9	-51.5	.07084	321.4	.00074430	.95455164
279.60	-49.2	-54.2	.05172	322.3	.00054401	.95509565
271.00	-51.2	-56.0	.04191	322.4	.00041083	.95550647
262.80	-52.2	-58.4	.03189	323.6	.00030877	.95581524
254.80	-53.6	-59.1	.02987	324.6	.00025208	.95606732
243.30	-55.9	-60.0	.02762	325.4	.00033727	.95640460
238.70	-56.3	-62.8	.01909	326.5	.00010961	.95651421
234.40	-57.1	-65.0	.01442	327.0	.00007351	.95658772
229.70	-57.1	-66.3	.01208	328.9	.00006354	.95665126
225.50	-57.3	-67.3	.01068	330.3	.00004877	.95670003
221.40	-57.5	-67.7	.01027	331.7	.00004382	.95674385
217.60	-57.7	-67.5	.01086	333.1	.00004096	.95678481
214.00	-56.9	-68.6	.00930	335.9	.00003701	.95682183
209.50	-56.1	-69.6	.00822	339.3	.00004020	.95686203
204.80	-56.1	-69.7	.00824	341.5	.00003947	.95690151
200.80	-56.1	-70.3	.00778	343.4	.00003269	.95693420
197.00	-55.9	-72.1	.00600	345.6	.00002670	.95696090
193.20	-55.9	-73.4	.00504	347.5	.00002138	.95698228
189.60	-56.1	-75.3	.00381	349.1	.00001624	.95699853
186.20	-56.3	-76.4	.00326	350.6	.00001226	.95701079
182.80	-56.5	-76.8	.00310	352.1	.00001103	.95702182
179.70	-57.1	-77.8	.00272	352.8	.00000919	.95703101
176.60	-57.1	-76.6	.00336	354.5	.00000960	.95704061
172.20	-56.9	-76.2	.00364	357.5	.00001571	.95705631
168.50	-57.1	-77.1	.00321	359.3	.00001293	.95706925
164.70	-57.3	-77.5	.00310	361.3	.00001225	.95708150
161.20	-57.5	-77.7	.00306	363.2	.00001101	.95709251
157.20	-58.0	-78.7	.00266	365.1	.00001168	.95710419
154.50	-58.0	-79.4	.00243	366.9	.00000700	.95711119
151.30	-57.7	-79.9	.00228	369.5	.00000767	.95711887
148.00	-58.2	-80.1	.00227	371.1	.00000764	.95712651
144.70	-58.4	-79.3	.00263	373.1	.00000823	.95713474
141.70	-58.6	-79.4	.00265	375.0	.00000806	.95714280
138.20	-58.8	-79.4	.00272	377.3	.00000958	.95715238
134.80	-58.4	-80.1	.00249	380.8	.00000903	.95716141
131.40	-57.1	-80.0	.00259	385.8	.00000879	.95717020
128.80	-56.5	-79.9	.00267	389.1	.00000697	.95717718
125.80	-57.3	-80.2	.00263	390.3	.00000812	.95718530
122.80	-58.2	-80.9	.00237	391.4	.00000766	.95719296
120.20	-58.4	-80.8	.00249	393.4	.00000645	.95719941
117.30	-58.6	-80.9	.00249	395.8	.00000736	.95720677
114.50	-59.0	-81.6	.00229	397.7	.00000682	.95721360
111.70	-59.7	-82.0	.00217	399.3	.00000636	.95721996
109.00	-59.7	-82.3	.00213	402.1	.00000592	.95722587
106.50	-59.5	-82.4	.00215	405.2	.00000545	.95723133
103.80	-59.0	-82.3	.00224	409.0	.00000605	.95723738
101.20	-59.0	-82.4	.00227	412.0	.00000596	.95724334
98.70	-58.8	-82.5	.00229	415.4	.00000580	.95724913
96.20	-58.8	-83.3	.00204	418.4	.00000551	.95725465
93.70	-58.6	-84.0	.00187	422.0	.00000498	.95725963
91.30	-58.4	-83.6	.00203	425.6	.00000477	.95726439

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
88.80	-59.0	-83.3	.00221	427.7	.00000541	.95726980
86.30	-59.3	-83.9	.00206	430.7	.00000544	.95727524
83.90	-59.5	-84.7	.00185	433.8	.00000477	.95728001
81.30	-58.8	-85.0	.00179	439.0	.00000483	.95728484
78.70	-58.2	-84.8	.00194	444.5	.00000495	.95728979
77.70	-57.1	-85.1	.00185	448.3	.00000192	.95729171
76.70	-56.3	-85.5	.00176	451.7	.00000183	.95729354
74.20	-55.3	-85.2	.00191	458.1	.00000466	.95729820
71.70	-54.5	-85.5	.00188	464.2	.00000483	.95730303
69.70	-54.3	-85.8	.00182	468.4	.00000377	.95730680
67.80	-54.3	-85.5	.00199	472.1	.00000368	.95731048
66.00	-54.1	-85.7	.00198	476.2	.00000364	.95731412
64.20	-53.9	-85.9	.00194	480.4	.00000359	.95731771
62.30	-53.6	-86.0	.00197	485.4	.00000378	.95732149
60.50	-53.4	-85.8	.00209	489.9	.00000373	.95732522
58.80	-53.2	-85.7	.00219	494.3	.00000371	.95732893
57.00	-53.2	-86.0	.00215	498.7	.00000398	.95733291
55.50	-53.6	-86.3	.00210	501.7	.00000325	.95733616
54.00	-53.9	-86.4	.00212	504.7	.00000323	.95733939
52.40	-54.1	-86.4	.00219	508.6	.00000352	.95734291
50.80	-54.3	-86.7	.00215	512.7	.00000353	.95734644
49.50	-54.1	-86.9	.00213	517.0	.00000283	.95734927
48.00	-53.4	-87.2	.00209	523.4	.00000322	.95735249
46.50	-53.0	-87.2	.00216	529.0	.00000325	.95735574
45.20	-52.4	-87.5	.00211	534.7	.00000282	.95735855
43.70	-52.4	-87.5	.00218	539.9	.00000328	.95736183
42.20	-52.2	-87.6	.00218	545.7	.00000332	.95736516
40.70	-52.2	-87.9	.00214	551.4	.00000329	.95736845
39.40	-52.1	-88.1	.00213	557.0	.00000283	.95737128
38.20	-51.9	-88.3	.00216	562.4	.00000262	.95737390
37.00	-51.5	-88.1	.00231	568.5	.00000273	.95737663
35.80	-51.5	-88.5	.00222	573.9	.00000277	.95737940
34.60	-51.5	-89.4	.00194	579.5	.00000253	.95738193
33.40	-51.3	-89.4	.00201	585.8	.00000241	.95738435
32.20	-51.2	-90.1	.00185	592.5	.00000235	.95738670
31.00	-51.0	-89.9	.00196	599.4	.00000232	.95738903
29.80	-50.8	-90.1	.00200	606.7	.00000241	.95739144
28.60	-50.6	-90.1	.00208	614.4	.00000249	.95739393
27.40	-50.5	-90.3	.00209	622.4	.00000255	.95739648
26.20	-50.5	-90.5	.00209	630.4	.00000255	.95739903
25.00	-50.3	-96.4	.00072	639.5	.00000171	.95740074
23.90	-50.1	-95.2	.00095	648.2	.00000092	.95740166
22.80	-49.9	-93.4	.00140	657.5	.00000131	.95740297
21.70	-49.8	-90.8	.00238	667.4	.00000212	.95740509
20.70	-49.4	-91.2	.00234	677.5	.00000240	.95740749
19.80	-49.1	-90.5	.00277	687.2	.00000234	.95740983
19.00	-48.9	-89.0	.00381	695.9	.00000268	.95741251
18.20	-48.7	-89.0	.00398	705.0	.00000317	.95741569
17.40	-48.2	-87.9	.00510	715.8	.00000370	.95741938
16.80	-47.9	-87.1	.00607	724.0	.00000341	.95742279
16.10	-47.7	-87.2	.00623	733.4	.00000438	.95742717
15.50	-47.6	-87.5	.00614	742.0	.00000378	.95743096
14.80	-47.1	-87.4	.00654	753.5	.00000452	.95743547
14.00	-46.9	-87.3	.00704	766.1	.00000554	.95744102
13.30	-46.6	-87.2	.00754	778.5	.00000520	.95744622

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
12.80	-46.4	-87.4	.00756	787.7	.00000384	.95745006
12.40	-46.2	-86.1	.00972	795.4	.00000352	.95745358
12.00	-45.9	-86.2	.00989	804.0	.00000399	.95745757
11.60	-45.8	-86.0	.01056	812.4	.00000417	.95746174
11.30	-45.6	-85.7	.01156	819.1	.00000338	.95746513
11.10	-45.5	-83.5	.01695	823.9	.00000291	.95746803
10.90	-45.1	-85.6	.01218	829.3	.00000297	.95747100
10.60	-44.8	-85.8	.01194	837.1	.00000368	.95747468
10.40	-44.7	-85.9	.01197	842.2	.00000243	.95747711
10.20	-44.7	-85.5	.01322	846.9	.00000256	.95747967
10.00	-44.5	-85.2	.01414	852.3	.00000279	.95748246

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.60	14.9	-3.3	2.85006	286.6		
996.50	13.6	-5.2	2.47471	287.1	.06003927	.06003927
982.00	12.5	-5.8	2.38100	287.2	.03592218	.09596145
968.50	11.3	-6.4	2.29201	287.0	.03218642	.12814787
955.00	10.2	-6.4	2.32454	287.1	.03179753	.15994540
942.50	9.4	-3.3	3.08132	287.4	.03447598	.19442138
930.00	9.0	-3.9	2.95581	288.0	.03850193	.23292331
916.50	7.9	-5.2	2.69166	288.2	.03889820	.27182151
902.00	6.9	-6.4	2.46166	288.4	.03812391	.30994542
887.00	6.0	-7.5	2.26768	288.9	.03619376	.34613918
871.50	5.4	-9.7	1.91575	289.7	.03308307	.37922224
856.00	5.4	-11.1	1.70990	291.2	.02867208	.40789433
840.00	4.8	-11.1	1.74256	292.2	.02818321	.43607754
826.00	4.5	-10.6	1.85123	293.3	.02566978	.46174732
809.00	3.6	-9.2	2.15799	294.0	.03477365	.49652097
794.00	2.6	-7.5	2.53437	294.5	.03591074	.53243171
778.00	1.6	-9.2	2.24428	295.2	.03900924	.57144095
763.50	.6	-11.1	1.91770	295.7	.03079003	.60223098
749.00	-.2	-21.0	.78264	296.5	.01997691	.62220789
735.50	-1.0	-30.5	.30489	297.1	.00749059	.62969849
720.00	-1.1	-39.9	.11157	298.8	.00329338	.63299187
706.00	-1.7	-8.1	2.72050	299.9	.02022897	.65322083
692.00	-3.2	-6.4	3.21256	299.9	.04237877	.69559960
677.50	-4.8	-7.0	3.12484	300.0	.04688358	.74248318
664.00	-5.8	-7.0	3.18869	300.5	.04348588	.78596906
650.00	-6.7	-9.2	2.68815	301.3	.04197726	.82794632
637.00	-7.6	-11.6	2.20355	302.0	.03244476	.86039108
622.00	-8.7	-11.6	2.25688	302.9	.03413577	.89452685
608.00	-9.7	-12.1	2.21680	303.7	.03195475	.92648160
595.00	-10.9	-13.4	2.00782	304.2	.02802035	.95450196
582.00	-11.8	-19.4	1.17297	305.1	.02109700	.97559896
569.00	-12.6	-20.6	1.06217	306.1	.01482487	.99042383
556.00	-13.7	-21.8	.96744	306.9	.01346168	1.00388551
543.00	-14.5	-23.3	.86179	307.9	.01213263	1.01601814
530.00	-15.3	-23.8	.83604	309.1	.01126112	1.02727926
518.00	-16.6	-25.6	.71451	309.7	.00949314	1.03677240
506.40	-17.6	-29.3	.50368	310.4	.00720967	1.04398207
495.00	-18.4	-28.2	.57603	311.4	.00627992	1.05026199
483.20	-19.4	-29.3	.52789	312.3	.00664598	1.05690797
471.00	-20.8	-21.8	1.14235	312.9	.01039635	1.06730431
459.20	-22.2	-22.1	1.13829	313.4	.01373035	1.08103466
447.50	-23.4	-22.4	1.13515	314.3	.01357099	1.09460565
435.80	-24.4	-25.6	.84946	315.4	.01184690	1.10645255
425.20	-25.5	-29.9	.56220	316.2	.00763446	1.11408702
413.80	-27.2	-31.5	.48917	316.5	.00611508	1.12020209
403.00	-28.7	-30.5	.55666	316.9	.00576271	1.12596481
393.00	-30.1	-30.5	.57084	317.5	.00575250	1.13171731
386.00	-31.4	-31.1	.54616	317.4	.00398923	1.13570654
371.50	-33.3	-33.9	.42344	318.3	.00717299	1.14287953
367.70	-34.6	-34.5	.39752	317.5	.00159165	1.14447118
361.00	-35.3	-34.4	.41221	318.2	.00276797	1.14723915
355.80	-36.3	-35.2	.38213	318.2	.00210744	1.14934659
350.70	-37.1	-35.5	.37426	318.4	.00196815	1.15131474
345.70	-37.8	-35.7	.37323	318.8	.00190684	1.15322158
340.70	-38.7	-36.6	.34138	318.9	.00182298	1.15504456
335.90	-39.4	-38.6	.27958	319.2	.00152071	1.15656526

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
331.00	-40.3	-39.4	.25825	319.3	.00134455	1.15790981
326.30	-41.2	-40.7	.22501	319.4	.00115880	1.15906861
321.50	-42.3	-43.2	.17140	319.3	.00097078	1.16003940
316.80	-43.0	-43.9	.16019	319.6	.00079514	1.16083454
312.00	-44.0	-45.1	.14233	319.7	.00074086	1.16157539
307.00	-44.9	-46.3	.12545	319.8	.00068308	1.16225848
302.20	-45.7	-47.5	.10967	320.1	.00057580	1.16283427
298.00	-46.5	-49.3	.08952	320.3	.00042683	1.16326110
293.40	-47.2	-50.9	.07467	320.8	.00038533	1.16364643
288.50	-47.7	-53.7	.05331	321.6	.00031993	1.16396636
284.00	-48.6	-57.2	.03453	321.8	.00020166	1.16416802
279.10	-49.3	-58.7	.02871	322.4	.00015810	1.16432612
274.10	-50.1	-61.0	.02152	322.8	.00012814	1.16445425
269.00	-51.0	-61.1	.02149	323.2	.00011191	1.16456616
264.00	-52.1	-61.5	.02085	323.4	.00010802	1.16467418
259.00	-53.1	-61.8	.02024	323.7	.00010484	1.16477902
254.00	-53.8	-62.1	.01986	324.4	.00010230	1.16488132
249.50	-54.8	-61.9	.02082	324.6	.00009337	1.16497469
245.30	-55.6	-62.7	.01884	325.0	.00008498	1.16505967
240.90	-56.0	-63.3	.01775	326.1	.00008215	1.16514182
236.50	-56.5	-64.1	.01610	327.2	.00007600	1.16521782
232.00	-57.1	-64.8	.01488	328.0	.00007114	1.16528895
227.70	-57.3	-65.4	.01403	329.4	.00006342	1.16535237
223.50	-57.7	-65.3	.01443	330.5	.00006096	1.16541333
219.40	-57.7	-66.3	.01270	332.3	.00005673	1.16547006
215.20	-57.3	-66.6	.01245	334.8	.00005390	1.16552396
211.10	-56.9	-67.3	.01151	337.3	.00005013	1.16557409
206.80	-56.9	-68.0	.01055	339.3	.00004840	1.16562249
202.30	-56.7	-68.9	.00940	341.8	.00004581	1.16566829
198.20	-56.2	-71.3	.00677	344.4	.00003381	1.16570210
194.50	-55.8	-74.8	.00402	346.9	.00002035	1.16572246
190.60	-56.2	-75.6	.00360	348.3	.00001517	1.16573763
187.20	-56.7	-75.7	.00363	349.4	.00001255	1.16575018
183.80	-57.1	-75.8	.00362	350.6	.00001256	1.16576274
180.40	-56.9	-76.5	.00330	352.8	.00001200	1.16577473
178.00	-56.7	-76.7	.00323	354.5	.00000800	1.16578273
173.70	-56.9	-76.9	.00324	356.6	.00001420	1.16579694
170.30	-56.9	-77.2	.00313	358.7	.00001104	1.16580798
166.70	-57.3	-77.4	.00312	360.1	.00001147	1.16581945
163.20	-57.5	-77.9	.00294	362.0	.00001082	1.16583027
159.80	-57.7	-77.6	.00315	363.8	.00001055	1.16584082
156.50	-57.9	-78.0	.00303	365.6	.00001040	1.16585122
153.00	-58.4	-78.1	.00303	367.2	.00001083	1.16586205
150.20	-58.4	-78.5	.00288	369.2	.00000843	1.16587049
147.30	-58.4	-78.7	.00287	371.2	.00000849	1.16587898
144.50	-58.6	-78.6	.00296	372.9	.00000831	1.16588730
141.70	-58.8	-79.3	.00271	374.6	.00000809	1.16589539
138.70	-58.6	-78.9	.00294	377.3	.00000864	1.16590403
136.50	-58.4	-78.9	.00299	379.4	.00000665	1.16591068
133.50	-57.9	-79.0	.00302	382.6	.00000919	1.16591987
130.60	-58.4	-79.0	.00305	384.2	.00000897	1.16592884
127.80	-58.8	-79.0	.00312	385.8	.00000881	1.16593765
125.00	-58.8	-79.2	.00311	388.3	.00000890	1.16594654
122.30	-58.6	-79.4	.00307	391.1	.00000851	1.16595505
119.60	-58.4	-79.8	.00292	394.0	.00000824	1.16596329

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
117.00	-58.6	-80.2	.00281	396.1	.00000758	1.16597088
114.40	-59.0	-80.4	.00276	397.8	.00000738	1.16597825
111.70	-59.0	-80.5	.00280	400.5	.00000766	1.16598591
109.10	-58.6	-80.6	.00283	404.1	.00000745	1.16599336
106.50	-58.4	-81.2	.00262	407.3	.00000721	1.16600057
103.80	-57.7	-80.7	.00290	411.5	.00000760	1.16600817
102.70	-56.9	-81.0	.00282	414.4	.00000320	1.16601138
99.60	-56.5	-81.6	.00263	418.9	.00000861	1.16601999
97.00	-56.2	-82.0	.00253	422.4	.00000682	1.16602682
94.70	-56.7	-82.3	.00246	424.5	.00000584	1.16603266
92.30	-57.3	-82.6	.00239	426.4	.00000593	1.16603859
90.00	-57.9	-82.8	.00238	428.2	.00000560	1.16604419
87.80	-58.6	-82.4	.00258	429.9	.00000556	1.16604975
85.60	-59.0	-82.5	.00261	432.2	.00000581	1.16605556
83.30	-59.9	-83.2	.00241	433.7	.00000589	1.16606145
81.20	-60.4	-83.3	.00240	435.9	.00000514	1.16606659
79.20	-60.4	-83.7	.00230	439.1	.00000480	1.16607139
77.30	-60.6	-84.1	.00223	441.6	.00000438	1.16607577
75.30	-60.4	-84.3	.00219	445.4	.00000450	1.16608027
73.50	-59.9	-84.4	.00221	449.5	.00000404	1.16608430
71.70	-58.4	-84.1	.00240	456.0	.00000423	1.16608854
69.80	-57.1	-83.6	.00268	462.3	.00000492	1.16609345
68.10	-55.8	-84.8	.00222	468.3	.00000425	1.16609770
66.30	-54.6	-84.8	.00228	474.5	.00000413	1.16610183
64.70	-53.7	-84.6	.00244	479.9	.00000384	1.16610567
63.00	-53.1	-84.9	.00237	484.9	.00000416	1.16610983
61.40	-53.1	-85.2	.00229	488.4	.00000378	1.16611362
59.80	-53.1	-85.3	.00231	492.1	.00000376	1.16611737
58.30	-53.3	-85.4	.00234	495.3	.00000355	1.16612092
56.80	-53.7	-85.6	.00233	498.1	.00000356	1.16612448
55.30	-54.2	-85.8	.00232	500.6	.00000355	1.16612802
53.80	-54.4	-86.1	.00224	504.1	.00000349	1.16613151
52.30	-54.6	-86.3	.00224	507.7	.00000343	1.16613494
51.00	-54.8	-85.8	.00252	510.9	.00000314	1.16613808
49.50	-55.0	-85.7	.00263	514.8	.00000393	1.16614202
48.10	-55.4	-85.9	.00259	518.1	.00000373	1.16614574
46.70	-54.8	-86.2	.00255	524.0	.00000367	1.16614941
45.20	-54.4	-86.6	.00247	529.8	.00000383	1.16615324
43.70	-54.0	-87.0	.00236	535.9	.00000368	1.16615692
42.30	-53.7	-86.8	.00252	541.9	.00000347	1.16616039
41.00	-53.5	-87.1	.00247	547.2	.00000331	1.16616370
39.80	-53.1	-87.5	.00239	552.8	.00000297	1.16616666
38.70	-52.9	-87.4	.00250	557.8	.00000273	1.16616939
37.50	-52.3	-87.6	.00249	564.3	.00000304	1.16617243
36.20	-52.1	-87.7	.00250	570.5	.00000331	1.16617574
35.00	-52.1	-87.9	.00250	576.0	.00000305	1.16617879
33.80	-52.0	-88.4	.00237	582.2	.00000298	1.16618177
32.70	-52.0	-88.8	.00229	587.8	.00000261	1.16618438
31.50	-52.0	-89.1	.00225	594.1	.00000277	1.16618715
30.40	-52.0	-89.8	.00206	600.2	.00000241	1.16618957
29.30	-52.0	-89.8	.00213	606.5	.00000234	1.16619191
28.20	-52.0	-89.9	.00218	613.2	.00000241	1.16619432
27.10	-52.1	-90.2	.00214	619.7	.00000241	1.16619673
26.20	-51.8	-90.3	.00217	626.7	.00000197	1.16619870
25.20	-51.6	-90.5	.00218	634.3	.00000221	1.16620091

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
24.30	-50.9	-91.8	.00178	643.0	.00000180	1.16620271
23.40	-50.7	-94.5	.00110	650.5	.00000131	1.16620402
22.50	-50.3	-95.5	.00094	658.9	.00000094	1.16620496
21.70	-50.0	-94.6	.00116	666.8	.00000085	1.16620581
20.90	-49.6	-94.3	.00130	675.1	.00000100	1.16620681
19.50	-49.3	-94.3	.00139	689.6	.00000191	1.16620871
18.60	-49.1	-93.8	.00160	699.5	.00000137	1.16621009
17.70	-48.9	-93.2	.00188	710.1	.00000159	1.16621168
16.80	-48.7	-92.8	.00212	721.3	.00000183	1.16621351
15.90	-48.4	-92.1	.00255	733.9	.00000215	1.16621566
15.10	-48.2	-91.9	.00280	745.3	.00000218	1.16621783
14.30	-48.1	-91.9	.00296	757.6	.00000234	1.16622017
13.50	-47.9	-91.9	.00313	770.7	.00000247	1.16622265
12.90	-47.7	-91.7	.00342	781.4	.00000200	1.16622464
12.40	-47.4	-91.4	.00378	791.4	.00000183	1.16622648
11.90	-47.2	-90.8	.00435	801.4	.00000207	1.16622855
11.40	-47.0	-90.4	.00490	811.9	.00000235	1.16623090
11.00	-46.9	-89.9	.00558	820.8	.00000213	1.16623303
10.70	-46.7	-89.3	.00640	828.0	.00000183	1.16623487
10.30	-46.5	-88.8	.00727	837.6	.00000279	1.16623765
10.00	-46.4	-88.5	.00789	845.3	.00000231	1.16623996

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1004.50	12.1	.1	3.83197	284.9		
999.00	11.6	.9	4.08300	284.8	.02221027	.02221027
993.00	11.0	1.7	4.35275	284.7	.02582359	.04803386
985.00	10.4	1.7	4.38835	284.7	.03567778	.08371164
977.00	10.1	4.3	5.34140	285.1	.03971310	.12342474
967.00	8.8	1.7	4.47062	284.7	.05006114	.17348588
955.00	8.1	.9	4.27241	285.0	.05352853	.22701441
941.00	7.3	-1.4	3.61886	285.4	.05636597	.28338037
926.00	6.5	-.6	3.91449	285.8	.05765291	.34103328
912.00	5.4	-2.8	3.32000	286.0	.05167465	.39270793
896.00	4.0	-2.8	3.37960	286.0	.05469038	.44739830
881.00	2.9	-3.5	3.24451	286.2	.05069454	.49809285
866.00	1.6	-2.1	3.70127	286.3	.05315624	.55124909
853.00	.8	-2.3	3.55094	286.7	.04810119	.59935027
839.00	-.3	-3.5	3.40782	286.9	.04970524	.64905551
826.00	-1.3	-4.8	3.10297	287.2	.04318364	.69223915
811.00	-2.3	-6.0	2.84722	287.5	.04553699	.73777615
797.00	-3.4	-8.2	2.37748	287.8	.03731909	.77509524
782.50	-3.2	-20.7	.77123	289.5	.02329387	.79838911
768.50	-3.8	-25.3	.49459	290.4	.00904152	.80743062
754.00	-4.9	-16.2	1.21639	290.7	.01265770	.82008833
740.00	-6.4	-17.3	1.11815	290.8	.01667523	.83676356
727.00	-7.5	-18.4	1.03067	291.0	.01425232	.85101588
716.00	-8.5	-16.6	1.23677	291.1	.01272534	.86374122
704.00	-9.8	-16.2	1.30296	291.1	.01554929	.87929051
692.00	-10.9	-16.6	1.27975	291.3	.01581244	.89510295
680.00	-11.7	-21.3	.83714	291.9	.01296048	.90806343
666.00	-12.2	-31.3	.31122	293.1	.00820255	.91626598
652.00	-13.0	-32.7	.27165	294.0	.00416335	.92042933
638.00	-13.6	-32.7	.27761	295.1	.00392327	.92435260
624.00	-15.2	-29.7	.39248	295.2	.00478639	.92913899
612.00	-16.5	-30.5	.36790	295.4	.00465539	.93379438
599.00	-17.5	-31.1	.35328	296.0	.00478329	.93857767
587.00	-18.6	-38.1	.16902	296.4	.00319770	.94177537
574.00	-19.7	-35.8	.22212	297.0	.00259425	.94436961
562.50	-20.8	-33.6	.28643	297.4	.00298382	.94735344
550.00	-21.7	-33.5	.29836	298.3	.00372954	.95108297
538.00	-22.1	-34.0	.28839	299.7	.00359236	.95467533
526.00	-22.7	-35.6	.24655	300.9	.00327514	.95795047
513.00	-24.0	-35.8	.24854	301.5	.00328372	.96123420
500.40	-25.1	-35.6	.25917	302.3	.00326380	.96449800
489.00	-26.1	-35.8	.26074	303.0	.00302394	.96752194
478.00	-26.7	-37.0	.23277	304.4	.00276971	.97029164
467.50	-27.4	-39.5	.18131	305.4	.00221826	.97250991
456.00	-28.1	-38.4	.21074	306.7	.00230028	.97481018
445.00	-28.6	-40.8	.16377	308.2	.00210185	.97691204
435.00	-29.1	-41.6	.15344	309.6	.00161839	.97853042
425.80	-29.6	-44.1	.11705	310.8	.00126959	.97980002
410.30	-30.4	-44.7	.11363	313.1	.00182424	.98162426
404.50	-32.0	-43.4	.13361	312.3	.00073165	.98235591
394.40	-33.7	-41.9	.16207	312.4	.00152366	.98387957
384.20	-35.0	-43.7	.13502	313.0	.00154607	.98542564
372.40	-37.3	-46.1	.10576	312.8	.00144960	.98687524
365.90	-38.3	-47.7	.08818	313.0	.00064316	.98751840
359.20	-39.2	-48.3	.08356	313.5	.00058706	.98810546
353.00	-40.2	-49.0	.07819	313.7	.00051163	.98861709

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
347.00	-41.2	-49.6	.07415	313.8	.00046633	.98908342
341.00	-42.0	-52.3	.05373	314.3	.00039145	.98947488
335.30	-42.9	-52.8	.05173	314.6	.00030668	.98978156
330.00	-43.9	-53.3	.04924	314.7	.00027300	.99005456
324.80	-44.7	-54.8	.04129	315.1	.00024015	.99029471
319.00	-45.3	-55.7	.03748	315.8	.00023308	.99052779
313.50	-46.0	-56.5	.03405	316.4	.00020072	.99072851
308.20	-46.6	-57.5	.03034	317.1	.00017411	.99090262
303.10	-47.5	-58.1	.02847	317.4	.00015302	.99105564
297.00	-48.3	-58.0	.02964	318.0	.00018086	.99123649
291.00	-49.4	-58.8	.02710	318.4	.00017369	.99141018
285.30	-49.9	-59.2	.02630	319.4	.00015529	.99156547
280.00	-50.5	-60.1	.02357	320.4	.00013484	.99170031
274.80	-51.2	-60.4	.02309	321.0	.00012378	.99182409
269.50	-51.6	-62.7	.01725	322.3	.00010908	.99193317
264.50		-65.6	.01164		.00007367	.99200684
259.80		-67.7	.00872		.00004882	.99205565
254.60		-68.0	.00856		.00004585	.99210151
250.00		-68.3	.00831		.00003959	.99214110
245.00		-68.7	.00808		.00004180	.99218290
240.20		-69.1	.00778		.00003882	.99222171
235.30	-46.6	-70.1	.00679	342.5	.00003639	.99225810
230.50	-47.7	-69.6	.00749	343.0	.00003496	.99229306
225.50	-48.9	-69.5	.00781	343.3	.00003903	.99233209
220.50	-50.5	-69.7	.00776	343.0	.00003970	.99237178
215.50	-52.0	-70.0	.00756	343.0	.00003906	.99241084
210.50	-53.3	-70.0	.00774	343.2	.00003900	.99244983
205.60	-54.3	-71.2	.00656	343.9	.00003575	.99248558
201.00	-55.1	-71.4	.00652	344.9	.00003068	.99251626
196.70	-55.3	-72.0	.00608	346.7	.00002763	.99254389
192.70	-55.1	-73.5	.00496	349.1	.00002253	.99256642
188.80	-54.9	-74.2	.00456	351.5	.00001894	.99258536
185.00	-54.7	-74.9	.00419	353.8	.00001696	.99260232
181.30	-54.9	-75.1	.00414	355.5	.00001571	.99261802
177.70	-55.1	-75.6	.00387	357.2	.00001471	.99263273
174.40	-55.3	-76.0	.00370	358.8	.00001274	.99264547
170.40	-55.5	-76.3	.00362	360.9	.00001493	.99266040
166.50	-55.1	-76.4	.00367	364.0	.00001450	.99267490
163.70	-54.1	-76.8	.00349	367.4	.00001021	.99268511
159.20	-53.7	-77.1	.00343	371.0	.00001588	.99270099
155.60	-53.1	-77.1	.00347	374.4	.00001267	.99271366
152.20	-53.3	-77.4	.00343	376.5	.00001197	.99272563
148.70	-53.3	-77.6	.00336	379.0	.00001211	.99273774
145.30	-53.3	-77.8	.00336	381.5	.00001164	.99274938
141.90	-53.5	-77.9	.00336	383.8	.00001164	.99276102
138.70	-54.1	-78.1	.00336	385.2	.00001095	.99277197
135.30	-55.1	-78.5	.00321	386.2	.00001138	.99278335
132.20	-55.7	-78.5	.00329	387.7	.00001027	.99279362
129.10	-56.3	-78.6	.00333	389.2	.00001045	.99280407
126.00	-57.4	-78.6	.00337	390.0	.00001058	.99281465
123.20	-58.1	-78.9	.00332	391.3	.00000955	.99282420
120.50	-58.5	-79.1	.00328	392.9	.00000909	.99283329
117.80	-59.2	-79.3	.00324	394.2	.00000897	.99284226
115.20	-58.7	-79.5	.00319	397.6	.00000852	.99285078
112.50	-58.5	-79.6	.00323	400.7	.00000884	.99285962

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
110.00	-58.5	-79.7	.00326	403.3	.00000827	.99286789
107.30	-59.2	-79.8	.00327	404.9	.00000899	.99287687
104.70	-59.4	-80.0	.00327	407.3	.00000866	.99288553
102.00	-60.6	-80.3	.00319	408.1	.00000888	.99289441
99.40	-61.8	-80.5	.00316	408.8	.00000842	.99290283
96.80	-62.5	-80.7	.00312	410.5	.00000831	.99291115
94.20	-63.8	-81.1	.00301	411.1	.00000812	.99291927
91.70	-64.4	-81.4	.00294	413.2	.00000758	.99292685
89.30	-63.0	-82.0	.00272	419.0	.00000691	.99293377
87.00	-62.0	-82.1	.00275	424.2	.00000642	.99294019
84.70	-61.1	-82.1	.00283	429.4	.00000654	.99294673
82.20	-61.8	-82.3	.00284	431.6	.00000723	.99295396
79.80	-62.3	-82.4	.00285	434.3	.00000696	.99296091
77.50	-61.5	-82.5	.00289	439.4	.00000674	.99296765
75.30	-59.6	-82.5	.00298	447.1	.00000659	.99297424
72.70	-57.8	-82.7	.00296	455.4	.00000787	.99298210
70.70	-57.2	-83.1	.00288	460.4	.00000596	.99298806
67.80	-57.4	-83.5	.00281	465.5	.00000840	.99299647
65.50	-57.8	-83.6	.00287	469.2	.00000665	.99300312
63.30	-58.3	-83.7	.00288	472.8	.00000644	.99300955
61.30	-59.4	-84.0	.00285	474.6	.00000584	.99301539
59.30	-60.1	-84.4	.00275	477.6	.00000571	.99302110
57.50	-60.6	-84.6	.00275	480.7	.00000504	.99302614
55.70	-60.8	-84.6	.00280	484.6	.00000508	.99303122
54.00	-60.6	-84.7	.00284	489.4	.00000489	.99303611
52.30	-60.3	-84.9	.00285	494.5	.00000493	.99304104
50.80	-59.9	-85.2	.00277	499.7	.00000429	.99304533
49.30	-59.4	-84.9	.00302	505.1	.00000443	.99304976
47.80	-58.9	-84.8	.00317	510.7	.00000472	.99305448
46.50	-58.3	-85.2	.00307	516.3	.00000413	.99305861
45.20	-58.1	-85.5	.00297	521.1	.00000399	.99306260
43.80	-57.6	-85.9	.00284	526.8	.00000414	.99306674
42.40	-57.4	-86.3	.00275	532.3	.00000399	.99307074
40.90	-57.2	-86.8	.00259	538.3	.00000408	.99307482
39.50	-57.0	-87.2	.00252	544.3	.00000365	.99307847
38.20	-56.7	-87.2	.00260	550.1	.00000338	.99308185
37.00	-57.0	-87.3	.00264	554.5	.00000320	.99308506
35.80	-57.2	-87.4	.00269	559.2	.00000325	.99308830
34.50	-57.2	-87.2	.00288	565.2	.00000368	.99309199
33.20	-57.4	-88.0	.00262	570.8	.00000364	.99309562
31.80	-57.4	-88.3	.00260	577.9	.00000371	.99309933
30.50	-57.4	-88.3	.00266	584.8	.00000347	.99310280
29.30	-57.2	-89.0	.00244	592.2	.00000311	.99310592
28.10	-57.0	-89.3	.00241	599.9	.00000297	.99310888
26.90	-56.5	-89.7	.00234	608.6	.00000291	.99311179
25.70	-56.3	-90.1	.00232	617.2	.00000285	.99311464
24.60	-55.3	-90.1	.00242	628.0	.00000265	.99311729
23.40	-54.1	-90.2	.00250	640.5	.00000300	.99312028
22.30	-52.9	-90.5	.00247	652.9	.00000279	.99312307
21.20	-51.6	-90.9	.00240	666.4	.00000273	.99312580
20.20	-50.5	-91.2	.00237	679.0	.00000243	.99312823
19.30	-49.4	-91.6	.00233	691.2	.00000216	.99313039
18.40	-48.3	-91.3	.00255	704.0	.00000224	.99313262
17.40	-47.3	-91.0	.00287	718.6	.00000276	.99313538
16.60	-46.6	-90.9	.00307	730.5	.00000241	.99313779

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
15.80	-46.5	-90.6	.00342	741.5	.00000264	.99314043
15.10	-46.1	-90.5	.00365	752.2	.00000252	.99314295
14.50	-46.0	-91.1	.00337	761.5	.00000215	.99314509
13.90	-45.6	-91.5	.00331	771.9	.00000204	.99314713
13.40	-45.3	-90.5	.00411	781.2	.00000189	.99314903
13.00	-45.2	-91.7	.00339	788.5	.00000152	.99315055
12.60	-45.0	-90.8	.00412	796.1	.00000152	.99315207
12.20	-44.7	-90.4	.00460	804.6	.00000177	.99315384
11.80	-44.5	-89.9	.00524	812.9	.00000200	.99315584
11.50	-44.4	-89.7	.00548	819.5	.00000164	.99315748
11.10	-43.9	-88.6	.00694	829.6	.00000252	.99315999
10.70	-43.7	-89.1	.00658	838.9	.00000276	.99316275
10.30	-43.6	-89.2	.00671	848.6	.00000270	.99316545
10.00	-43.6	-89.2	.00691	855.8	.00000207	.99316752
9.80	-43.4	-89.4	.00680	861.4	.00000139	.99316891
9.50	-43.2	-89.7	.00663	869.7	.00000204	.99317095
9.25	-43.1	-90.0	.00656	876.9	.00000167	.99317262
9.00	-43.1	-90.0	.00674	883.8	.00000168	.99317430

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1024.70	7.1	-4.3	2.58908	278.3		
1002.00	5.2	-4.3	2.64798	278.2	.06065340	.06065340
982.00	3.1	-4.3	2.70214	277.7	.05459289	.11524630
961.00	1.5	-4.8	2.65140	277.8	.05735914	.17260544
940.00	-.8	-5.3	2.60095	277.3	.05627491	.22888035
920.00	-2.4	-6.2	2.45453	277.3	.05158630	.28046665
902.00	-4.0	-6.7	2.40639	277.2	.04464087	.32510751
886.50	-3.4	-8.8	2.03415	279.2	.03511634	.36022386
872.00	-2.5	-13.2	1.39366	281.4	.02535872	.38558258
860.00	1.2	-21.3	.66169	286.4	.01258376	.39816634
845.00	1.2	-25.3	.44997	287.9	.00850756	.40667391
829.00	1.0	-31.3	.24998	289.3	.00571385	.41238776
816.00	-.1	-22.8	.59727	289.4	.00561953	.41800728
803.00	-1.2	-20.3	.77720	289.6	.00911635	.42712364
789.00	-2.2	-14.2	1.40819	289.9	.01560985	.44273348
776.00	-2.9	-14.5	1.39173	290.6	.01857083	.46130431
762.50	-3.7	-18.0	1.02157	291.2	.01662216	.47792646
749.00	-4.2	-19.6	.89546	292.1	.01320396	.49113043
736.00	-5.4	-19.3	.93404	292.2	.01213439	.50326481
723.00	-6.6	-19.3	.95086	292.5	.01250182	.51576664
711.00	-7.6	-18.8	1.01562	292.7	.01203960	.52780624
698.00	-8.4	-22.0	.76206	293.4	.01179068	.53959692
686.00	-8.8	-27.8	.43352	294.4	.00731987	.54691678
673.00	-9.0	-20.3	.92755	295.8	.00902748	.55594426
660.50	-9.4	-16.0	1.42016	296.9	.01497258	.57091685
648.00	-10.1	-14.5	1.66738	297.8	.01969087	.59060772
636.00	-10.8	-13.2	1.91240	298.6	.02191694	.61252466
623.00	-11.4	-15.4	1.59164	299.6	.02324095	.63576561
613.00	-12.2	-17.2	1.37312	300.1	.01512621	.65089183
602.00	-12.7	-18.3	1.26155	301.1	.01478635	.66567817
591.00	-13.3	-21.7	.92089	302.0	.01224837	.67792654
580.00	-13.9	-22.2	.89685	302.9	.01020154	.68812808
569.00	-14.7	-24.1	.75489	303.6	.00926992	.69739801
558.50	-15.6	-24.9	.70918	304.2	.00784324	.70524125
548.00	-16.4	-24.9	.72279	304.9	.00767125	.71291250
538.00	-17.2	-28.8	.49645	305.6	.00622056	.71913306
526.60	-18.1	-29.5	.47323	306.4	.00563994	.72477300
516.70	-19.3	-31.3	.40118	306.6	.00441663	.72918963
506.80	-20.4	-32.5	.36002	306.9	.00384478	.73303442
496.00	-21.4	-32.3	.37374	307.6	.00404316	.73707758
486.00	-22.5	-36.3	.24848	308.0	.00317457	.74025215
476.30	-23.5	-39.1	.18645	308.6	.00215241	.74240457
466.30	-24.6	-40.5	.16159	309.0	.00177567	.74418023
457.00	-26.2	-40.5	.16488	308.9	.00154902	.74572925
447.00	-27.3	-43.4	.12065	309.5	.00145674	.74718599
438.00	-28.6	-44.6	.10741	309.6	.00104721	.74823320
428.90	-30.0	-41.4	.15927	309.7	.00123815	.74947135
420.00	-31.4	-40.4	.18160	309.7	.00154778	.75101914
411.00	-32.9	-39.7	.20011	309.8	.00175270	.75277184
403.00	-34.6	-39.4	.21204	309.3	.00168222	.75445406
394.50	-36.0	-39.2	.22219	309.4	.00188313	.75633720
385.30	-37.3	-39.7	.21346	309.7	.00204489	.75838208
375.80	-38.6	-40.5	.20051	310.2	.00200649	.76038857
366.00	-40.0	-41.4	.18665	310.7	.00193578	.76232435
356.40	-41.2	-43.1	.15669	311.5	.00168161	.76400596
347.70	-42.5	-44.5	.13681	311.9	.00130275	.76530871

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
339.00	-43.6	-44.1	.14686	312.7	.00125912	.76656783
331.00	-45.0	-45.1	.13442	312.9	.00114807	.76771590
323.70	-46.1	-47.2	.10703	313.4	.00089927	.76861517
316.80	-47.2	-49.2	.08512	313.7	.00067641	.76929158
310.00	-48.2	-50.6	.07318	314.3	.00054917	.76984075
301.80	-49.4	-50.7	.07443	315.1	.00061753	.77045828
294.20	-50.8	-51.1	.07263	315.4	.00057024	.77102852
287.10	-51.9	-51.8	.06806	316.1	.00050963	.77153815
280.50	-53.2	-52.2	.06631	316.3	.00045244	.77199060
274.30	-54.3	-54.2	.05269	316.7	.00037642	.77236702
268.20	-55.1	-54.7	.05039	317.6	.00032082	.77268784
262.50	-56.1	-55.2	.04815	318.1	.00028656	.77297440
256.30	-56.5	-56.5	.04197	319.7	.00028507	.77325948
249.00	-56.9	-57.8	.03614	321.7	.00029090	.77355038
242.60	-57.3	-60.9	.02436	323.5	.00019751	.77374789
236.70	-57.7	-62.9	.01902	325.2	.00013058	.77387847
231.00	-58.4	-63.6	.01774	326.5	.00010689	.77398536
225.00	-58.4	-65.4	.01408	328.9	.00009738	.77408274
219.00	-57.3	-67.0	.01156	333.1	.00007848	.77416122
214.00	-57.1	-67.9	.01030	335.7	.00005578	.77421699
208.70	-56.7	-69.0	.00909	338.7	.00005242	.77426942
203.60	-55.9	-70.8	.00712	342.4	.00004216	.77431157
198.30	-55.9	-72.0	.00603	345.0	.00003554	.77434711
193.20	-56.3	-72.8	.00554	346.9	.00003010	.77437721
188.30	-57.1	-73.2	.00532	348.2	.00002715	.77440436
183.50	-57.7	-73.7	.00504	349.7	.00002538	.77442974
178.20	-58.4	-74.2	.00479	351.6	.00002660	.77445634
173.00	-58.6	-74.5	.00477	354.3	.00002536	.77448170
168.50	-58.1	-75.2	.00435	357.6	.00002094	.77450264
164.00	-57.3	-75.9	.00401	361.8	.00001919	.77452183
159.70	-56.7	-76.3	.00387	365.6	.00001729	.77453911
155.50	-56.9	-76.6	.00379	368.1	.00001641	.77455552
151.70	-57.7	-77.0	.00364	369.3	.00001439	.77456991
147.50	-58.6	-77.2	.00361	370.8	.00001553	.77458544
143.60	-59.4	-77.5	.00357	372.1	.00001426	.77459970
140.00	-59.9	-77.4	.00370	374.0	.00001335	.77461305
136.70	-60.3	-77.6	.00370	375.8	.00001246	.77462551
132.30	-60.6	-78.1	.00349	378.9	.00001612	.77464163
128.60	-60.8	-78.2	.00354	381.6	.00001326	.77465490
124.80	-61.0	-78.3	.00360	384.5	.00001383	.77466872
121.50	-61.2	-78.7	.00346	387.0	.00001188	.77468060
118.00	-61.5	-79.0	.00342	389.8	.00001226	.77469286
114.30	-61.5	-79.2	.00339	393.4	.00001284	.77470571
110.70	-61.7	-79.3	.00345	396.5	.00001255	.77471825
107.70	-62.2	-79.6	.00340	398.8	.00001048	.77472873
104.40	-62.7	-79.6	.00346	401.4	.00001153	.77474026
101.00	-62.0	-79.9	.00343	406.6	.00001194	.77475220
97.70	-61.7	-80.2	.00335	410.9	.00001140	.77476360
94.70	-61.2	-80.7	.00321	415.6	.00001003	.77477363
91.80	-60.8	-80.9	.00321	420.2	.00000949	.77478312
88.60	-60.8	-81.4	.00305	424.5	.00001021	.77479333
85.70	-60.8	-81.5	.00310	428.5	.00000909	.77480242
83.20	-60.6	-81.4	.00324	432.6	.00000808	.77481049
80.70	-60.3	-81.8	.00314	436.9	.00000814	.77481863
78.20	-59.7	-82.2	.00300	442.2	.00000784	.77482647

WASHINGTON,D.C. 12/22/65 1950Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
75.80	-59.4	-82.3	.00305	446.6	.00000741	.77483387
73.30	-59.4	-82.6	.00301	450.9	.00000772	.77484159
70.80	-59.7	-82.4	.00321	454.9	.00000793	.77484952
68.60	-60.6	-83.0	.00301	457.1	.00000697	.77485649
66.40	-60.8	-83.3	.00296	460.9	.00000669	.77486318
64.20	-61.0	-83.5	.00296	464.9	.00000665	.77486983
61.80	-61.0	-83.8	.00293	469.9	.00000720	.77487703
59.70	-60.8	-84.1	.00288	475.1	.00000621	.77488324
57.50	-60.6	-84.2	.00294	480.8	.00000651	.77488975
55.50	-60.3	-84.7	.00279	486.2	.00000583	.77489558
53.50	-59.9	-84.3	.00310	492.3	.00000601	.77490158
51.50	-59.7	-84.7	.00300	498.3	.00000623	.77490781
49.80	-59.7	-85.2	.00284	503.1	.00000505	.77491286
48.20	-59.7	-85.3	.00288	507.8	.00000466	.77491753
46.70	-59.7	-85.3	.00297	512.4	.00000447	.77492200
45.20	-59.7	-85.2	.00313	517.2	.00000466	.77492666
43.80	-59.9	-85.2	.00323	521.3	.00000453	.77493119
42.30	-59.9	-85.3	.00328	526.5	.00000498	.77493617
41.10	-60.3	-85.6	.00319	529.7	.00000396	.77494013
39.70	-60.3	-85.9	.00313	535.0	.00000450	.77494463
38.30	-60.3	-86.3	.00306	540.5	.00000441	.77494904
37.00	-60.6	-86.3	.00317	545.3	.00000413	.77495317
35.70	-60.8	-87.1	.00286	550.3	.00000399	.77495717
34.30	-61.0	-86.8	.00310	556.0	.00000425	.77496141
33.00	-61.5	-87.1	.00309	561.0	.00000410	.77496551
31.60	-61.7	-87.5	.00298	567.3	.00000432	.77496983
30.20	-60.8	-87.9	.00292	577.3	.00000420	.77497403
28.90	-60.6	-88.4	.00281	585.2	.00000378	.77497782
27.60	-60.3	-88.7	.00275	593.6	.00000368	.77498150
26.30	-60.1	-89.2	.00263	602.5	.00000356	.77498506
25.00	-59.7	-89.6	.00259	612.5	.00000346	.77498852
23.70	-59.4	-90.0	.00254	622.6	.00000340	.77499191
22.60	-59.7	-90.4	.00248	630.5	.00000282	.77499473
21.80	-59.9	-90.8	.00238	636.3	.00000198	.77499671
20.90	-60.1	-90.7	.00255	643.4	.00000226	.77499898
20.10	-60.3	-91.6	.00221	649.9	.00000194	.77500091
19.30	-60.3	-91.4	.00243	657.5	.00000189	.77500281
18.60	-60.3	-91.9	.00227	664.4	.00000167	.77500448
17.80	-60.3	-92.7	.00206	672.8	.00000176	.77500623
17.10	-60.3	-92.8	.00209	680.6	.00000148	.77500771
16.40	-60.3	-93.1	.00205	688.8	.00000148	.77500919
15.80	-60.6	-93.4	.00201	695.4	.00000124	.77501042
15.10	-60.6	-93.4	.00210	704.4	.00000146	.77501188
14.50	-60.6	-93.9	.00200	712.6	.00000125	.77501313
13.90	-60.6	-93.9	.00208	721.3	.00000124	.77501437
13.30	-60.6	-94.9	.00180	730.5	.00000118	.77501555
12.70	-60.3	-94.2	.00214	741.0	.00000119	.77501674
12.20	-60.3	-94.4	.00216	749.5	.00000109	.77501783
11.70	-60.3	-95.1	.00197	758.5	.00000104	.77501887
11.20	-60.3	-94.4	.00235	768.1	.00000110	.77501997
10.80	-60.3	-94.2	.00252	776.1	.00000098	.77502096
10.40	-60.3	-93.6	.00296	784.5	.00000110	.77502206
10.10	-60.1	-93.1	.00333	791.9	.00000095	.77502301

THULE, GREENLAND 7/22/65 1900Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1019.00	.2	.4	3.85802	271.9		
1001.80	.3	-.4	3.68782	273.4	.06621829	.06621829
984.00	.5	-1.2	3.52958	274.9	.06554548	.13176377
966.00	.6	-1.2	3.59573	276.5	.06543629	.19720006
948.00	.5	-1.2	3.66441	277.8	.06667447	.26387453
932.00	.1	-1.2	3.72769	278.8	.06034341	.32421795
916.00	-.9	-3.3	3.16560	279.2	.05627158	.38048953
900.00	-1.3	-4.6	2.88037	280.2	.04935470	.42984423
884.00	-1.3	-5.9	2.63429	281.6	.04501748	.47486171
869.00	-1.2	-7.1	2.41415	283.1	.03863589	.51349761
855.00	-1.8	-6.5	2.58426	283.7	.03570278	.54920039
839.00	-2.2	-9.3	2.06250	284.9	.03793253	.58713292
823.80	-2.5	-10.3	1.91881	286.1	.03087536	.61800827
808.50	-3.6	-10.3	1.95524	286.5	.03024121	.64824948
794.00	-4.6	-10.8	1.90340	286.8	.02854592	.67679539
778.00	-5.6	-10.3	2.03214	287.4	.03212671	.70892210
764.00	-6.7	-11.3	1.89600	287.8	.02805802	.73698013
749.00	-6.9	-11.7	1.85224	289.1	.02868538	.76566550
733.00	-7.6	-15.6	1.32904	290.2	.02596954	.79163504
718.50	-8.4	-15.6	1.35592	291.0	.01986314	.81149818
704.00	-9.4	-17.1	1.19889	291.6	.01890028	.83039846
689.50	-10.4	-17.9	1.14367	292.2	.01733004	.84772849
675.00	-11.4	-17.5	1.20925	292.9	.01740667	.86513516
661.00	-12.5	-20.9	.89577	293.3	.01503573	.88017090
647.00	-13.7	-24.0	.66903	293.9	.01117708	.89134797
633.00	-14.7	-27.5	.48097	294.6	.00821428	.89956225
618.00	-16.0	-27.8	.48102	295.0	.00736217	.90692443
605.00	-17.2	-29.5	.40973	295.5	.00590801	.91283244
591.00	-18.4	-29.7	.41051	296.0	.00585887	.91869131
578.00	-19.7	-32.1	.32634	296.5	.00488728	.92357859
564.00	-20.7	-31.2	.37037	297.4	.00497644	.92855503
557.50	-19.3	-35.3	.24052	300.0	.00202589	.93058091
551.20	-19.5	-36.5	.21485	300.7	.00146367	.93204458
544.80	-20.3	-37.4	.19629	300.8	.00134249	.93338707
538.50	-20.7	-38.1	.18277	301.3	.00121841	.93460548
532.00	-21.0	-40.9	.13518	301.9	.00105442	.93565990
525.80	-21.4	-41.2	.13276	302.5	.00084755	.93650745
519.50	-21.8	-38.6	.18040	303.1	.00100656	.93751401
513.00	-22.0	-36.6	.22698	303.9	.00135100	.93886501
506.30	-22.7	-31.8	.38817	304.2	.00210281	.94096781
500.00	-23.2	-35.7	.25861	304.7	.00207891	.94304672
494.00	-23.8	-35.0	.28140	305.0	.00165306	.94469978
487.90	-24.2	-39.8	.16659	305.6	.00139423	.94609401
481.40	-25.0	-43.1	.11669	305.9	.00093941	.94703342
475.20	-25.5	-35.3	.28220	306.4	.00126176	.94829518
469.00	-25.8	-29.1	.55248	307.0	.00264026	.95093544
463.00	-26.5	-28.0	.62721	307.4	.00361125	.95454669
456.50	-27.3	-28.2	.62192	307.6	.00414251	.95868920
450.20	-27.9	-30.2	.51578	308.1	.00365686	.96234606
444.50	-28.6	-31.4	.46062	308.4	.00283951	.96518557
439.00	-29.2	-32.0	.43862	308.6	.00252336	.96770893
432.50	-29.7	-33.1	.39514	309.3	.00276501	.97047395
426.50	-30.5	-33.4	.38560	309.5	.00239001	.97286396
420.40	-31.2	-34.8	.33665	310.0	.00224781	.97511177
414.60	-32.0	-35.2	.32919	310.2	.00197034	.97708210
408.80	-32.8	-34.1	.37299	310.4	.00207788	.97915998

THULE, GREENLAND 7/22/65 1900Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
403.00	-33.5	-35.0	.34498	310.8	.00212458	.98128456
397.60	-34.4	-36.1	.30862	310.7	.00180070	.98308526
392.20	-35.0	-36.8	.29179	311.2	.00165418	.98473944
387.00	-35.8	-37.4	.27637	311.3	.00150736	.98624679
381.60	-36.6	-38.1	.25795	311.4	.00147210	.98771890
376.30	-37.5	-38.4	.25320	311.6	.00138219	.98910108
371.50	-38.2	-38.9	.24433	311.8	.00121844	.99031952
366.50	-38.9	-40.7	.20223	312.0	.00113919	.99145871
361.20	-39.5	-41.2	.19327	312.5	.00106947	.99252819
356.00	-40.4	-42.5	.16942	312.6	.00096223	.99349041
350.50	-41.3	-46.6	.10581	312.8	.00077231	.99426273
345.20	-41.9	-48.5	.08483	313.4	.00051551	.99477823
340.00	-43.0	-48.8	.08305	313.2	.00044540	.99522363
335.00	-43.5	-48.9	.08327	313.9	.00042428	.99564791
330.20	-44.6	-49.3	.08055	313.7	.00040117	.99604908
325.30	-45.2	-50.1	.07439	314.2	.00038733	.99643640
320.80	-46.2	-50.6	.07117	314.1	.00033417	.99677058
316.10	-46.5	-50.3	.07479	314.9	.00035000	.99712057
312.00	-47.2	-51.0	.06908	315.2	.00030096	.99742153
308.30	-48.0	-50.0	.07943	315.1	.00028035	.99770188
303.20	-48.7	-50.0	.08077	315.6	.00041683	.99811871
298.20	-49.6	-50.9	.07312	315.9	.00039257	.99851128
293.30	-49.8	-51.1	.07264	317.1	.00036439	.99887568
288.70	-50.1	-51.6	.06972	318.0	.00033408	.99920976
284.00	-50.1	-52.7	.06131	319.5	.00031418	.99952394
279.50	-50.3	-54.4	.05013	320.7	.00025582	.99977976
275.30	-50.3	-55.9	.04208	322.1	.00019757	.99997734
271.20	-50.5	-57.4	.03510	323.2	.00016144	1.00013877
267.00	-50.0	-59.2	.02799	325.5	.00013520	1.00027397
263.10	-49.4	-61.1	.02197	327.6	.00009941	1.00037338
259.20	-48.4	-64.2	.01455	330.6	.00007266	1.00044604
255.50	-47.5	-67.5	.00922	333.2	.00004485	1.00049089
251.00	-46.7	-70.3	.00617	336.1	.00003533	1.00052622
246.50	-46.4	-71.4	.00531	338.4	.00002638	1.00055259
242.20	-46.0	-72.0	.00499	340.6	.00002261	1.00057520
238.00	-45.7	-72.2	.00493	342.8	.00002125	1.00059645
233.70	-45.4	-73.0	.00444	345.1	.00002055	1.00061700
229.50	-45.1	-73.7	.00404	347.4	.00001818	1.00063518
225.50	-44.6	-74.2	.00379	349.8	.00001597	1.00065115
221.40	-44.1	-74.2	.00390	352.4	.00001606	1.00066721
217.50	-43.8	-74.9	.00353	354.7	.00001478	1.00068200
213.30	-43.5	-75.3	.00338	357.2	.00001481	1.00069681
209.20	-43.2	-75.7	.00327	359.6	.00001390	1.00071071
205.40	-43.3	-75.7	.00329	361.3	.00001273	1.00072344
201.50	-43.6	-75.7	.00339	362.8	.00001331	1.00073674
197.60	-43.9	-75.8	.00339	364.3	.00001349	1.00075023
193.80	-44.4	-76.0	.00334	365.6	.00001305	1.00076328
190.20	-44.4	-76.1	.00337	367.5	.00001232	1.00077561
186.50	-43.8	-76.3	.00333	370.6	.00001264	1.00078824
182.70	-43.6	-76.6	.00325	373.1	.00001274	1.00080098
179.20	-44.1	-77.0	.00310	374.4	.00001134	1.00081232
175.70	-44.6	-77.5	.00290	375.7	.00001070	1.00082302
172.50	-44.9	-77.7	.00285	377.1	.00000937	1.00083239
169.20	-45.1			379.0	.00000000	1.00083239
165.80	-45.1			381.2	.00000000	1.00083239

THULE, GREENLAND 7/22/65 1900Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
162.50	-45.1			383.4	.00000000	1.00083239
159.20	-45.1			385.6	.00000000	1.00083239
155.90	-44.9			388.2	.00000000	1.00083239
152.50	-44.9			390.6	.00000000	1.00083239
149.30	-44.9			393.0	.00000000	1.00083239
146.20	-44.7			395.7	.00000000	1.00083239
143.00	-44.6			398.5	.00000000	1.00083239
139.80	-44.4			401.3	.00000000	1.00083239
136.60	-44.4			404.0	.00000000	1.00083239
133.40	-44.6			406.4	.00000000	1.00083239
130.30	-44.6			409.2	.00000000	1.00083239
127.40	-44.6			411.8	.00000000	1.00083239
124.50	-44.6			414.5	.00000000	1.00083239
121.50	-44.7			417.2	.00000000	1.00083239
118.70	-44.7			419.9	.00000000	1.00083239
115.90	-44.9			422.5	.00000000	1.00083239
113.20	-45.1			425.1	.00000000	1.00083239
110.50	-45.2			427.7	.00000000	1.00083239
108.00	-44.9			431.1	.00000000	1.00083239
105.50	-44.7			434.3	.00000000	1.00083239
103.10	-44.6			437.5	.00000000	1.00083239
100.70	-44.6			440.4	.00000000	1.00083239
98.20	-44.4			443.9	.00000000	1.00083239
95.80	-44.4			447.1	.00000000	1.00083239
93.40	-44.3			450.7	.00000000	1.00083239
91.10	-44.4			453.6	.00000000	1.00083239
88.70	-44.6			456.7	.00000000	1.00083239
86.30	-44.6			460.3	.00000000	1.00083239
84.20	-43.9			464.8	.00000000	1.00083239
82.00	-43.3			469.7	.00000000	1.00083239
79.80	-43.0			474.0	.00000000	1.00083239
77.70	-43.5			476.6	.00000000	1.00083239
75.50	-43.9			479.6	.00000000	1.00083239
73.60	-44.3			482.4	.00000000	1.00083239
71.60	-43.8			487.2	.00000000	1.00083239
69.70	-43.0			492.6	.00000000	1.00083239
67.70	-41.9			499.1	.00000000	1.00083239
65.70	-41.5			504.4	.00000000	1.00083239
63.80	-41.8			508.0	.00000000	1.00083239
61.80	-41.9			512.3	.00000000	1.00083239
60.10	-42.1			516.0	.00000000	1.00083239
58.30	-42.2			520.2	.00000000	1.00083239
56.60	-42.2			524.6	.00000000	1.00083239
54.80	-42.1			529.8	.00000000	1.00083239
53.20	-42.1			534.3	.00000000	1.00083239
52.00	-41.9			538.2	.00000000	1.00083239
50.00	-41.8			544.6	.00000000	1.00083239
48.60	-41.8			549.0	.00000000	1.00083239
47.10	-41.8			554.0	.00000000	1.00083239
45.70	-41.8			558.8	.00000000	1.00083239
44.40	-41.6			563.8	.00000000	1.00083239
43.20	-41.5			568.6	.00000000	1.00083239
41.80	-41.3			574.3	.00000000	1.00083239
40.60	-41.3			579.1	.00000000	1.00083239
39.30	-41.2			584.9	.00000000	1.00083239

THULE, GREENLAND 7/22/65 1900Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
38.00	-41.2	-85.5	.00351	590.6	.00000232	1.00083472
36.60	-41.2	-85.9	.00343	596.9	.00000495	1.00083967
35.20	-40.9	-86.1	.00341	604.4	.00000487	1.00084454
33.80	-40.7	-86.4	.00339	611.8	.00000486	1.00084940
32.50	-40.7	-86.8	.00326	618.7	.00000441	1.00085381
31.10	-40.9	-87.1	.00325	626.2	.00000465	1.00085846
29.70	-41.2	-87.2	.00335	633.6	.00000471	1.00086316
28.30	-41.5	-87.6	.00330	641.6	.00000474	1.00086790
26.80	-41.6	-87.8	.00331	651.2	.00000505	1.00087295

THULE, GREENLAND 8/22/65 1315Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
991.00	-1.4	-6.7	2.18052	272.5		
973.00	-.8	-7.2	2.12929	274.5	.03957970	.03957970
955.00	-.0	-7.7	2.08047	276.8	.03866085	.07824056
938.50	-.6	-8.1	2.03549	277.6	.03464948	.11289003
924.00	-1.5	-8.6	1.98627	277.8	.02975267	.14264271
908.00	-2.3	-8.6	2.02139	278.4	.03271542	.17535813
893.00	-3.4	-8.1	2.13956	278.6	.03184380	.20720193
878.00	-4.3	-8.1	2.17624	279.0	.03302887	.24023080
862.00	-5.5	-8.1	2.21677	279.3	.03586115	.27609195
846.00	-6.0	-11.5	1.67202	280.2	.03174512	.30783707
830.00	-6.3	-12.7	1.53589	281.5	.02618688	.33402395
814.00	-6.1	-13.8	1.41722	283.2	.02410689	.35813084
798.00	-4.8	-15.5	1.23465	286.2	.02164784	.37977868
783.00	-2.9	-17.1	1.08460	289.9	.01774929	.39752798
768.00	-3.0	-17.7	1.04457	291.3	.01629461	.41382259
754.00	-3.5	-20.5	.81366	292.3	.01327300	.42709559
747.50	-3.9	-20.7	.80061	292.6	.00535339	.43244898
738.00	-4.6	-19.9	.87509	292.9	.00812195	.44057094
729.00	-4.8	-19.7	.90983	293.7	.00819600	.44876693
721.00	-5.4	-20.5	.85095	294.0	.00718680	.45595373
712.00	-5.9	-20.5	.86172	294.5	.00786425	.46381798
704.00	-6.6	-22.0	.75133	294.6	.00658384	.47040182
695.00	-6.9	-22.3	.74264	295.4	.00686005	.47726187
687.00	-7.5	-21.8	.78834	295.7	.00624888	.48351075
678.00	-8.1	-21.3	.83900	296.2	.00747243	.49098317
670.00	-8.7	-22.0	.78951	296.5	.00664692	.49763009
662.00	-9.2	-23.0	.72621	297.0	.00618654	.50381663
654.00	-10.1	-23.2	.71861	297.0	.00589719	.50971383
647.00	-10.6	-24.4	.64858	297.4	.00488281	.51459664
640.00	-11.2	-25.2	.60032	297.6	.00446033	.51905698
633.00	-11.8	-25.9	.56929	297.8	.00417715	.52323413
625.00	-12.6	-26.1	.56493	298.0	.00462942	.52786355
616.00	-13.1	-27.3	.50668	298.7	.00492062	.53278416
607.00	-13.7	-27.3	.51420	299.2	.00468771	.53747188
598.00	-14.3	-26.7	.55477	299.8	.00490850	.54238038
590.00	-14.8	-26.7	.56230	300.4	.00455943	.54693981
583.00	-15.3	-26.9	.55741	300.8	.00399892	.55093873
575.00	-16.2	-27.5	.53237	301.0	.00444807	.55538680
567.00	-16.8	-28.1	.50874	301.4	.00424941	.55963621
560.00	-17.4	-28.3	.50501	301.8	.00362052	.56325673
553.00	-18.2	-28.3	.51141	302.0	.00363006	.56688678
546.00	-19.2	-29.7	.44509	301.9	.00341605	.57030283
539.00	-20.2	-31.1	.39045	301.9	.00298406	.57328689
533.00	-21.0	-31.6	.37463	301.8	.00234209	.57562898
526.40	-21.8	-32.1	.36020	302.0	.00247443	.57810341
519.00	-22.5	-32.7	.34155	302.3	.00264944	.58075285
512.00	-22.9	-33.4	.32389	303.0	.00237654	.58312939
505.00	-23.3	-32.1	.37547	303.8	.00249770	.58562709
498.30	-24.1	-33.4	.33280	303.8	.00242111	.58804820
491.60	-25.0	-33.5	.33200	304.0	.00227250	.59032071
485.00	-25.9	-33.5	.33652	304.0	.00225112	.59257182
478.30	-26.8	-33.7	.33561	304.2	.00229758	.59486941
471.80	-27.8	-33.8	.33471	304.1	.00222301	.59709242
465.00	-28.6	-34.4	.31863	304.4	.00226671	.59935912
458.00	-29.1	-38.2	.21290	305.1	.00189833	.60125746
450.50	-29.9	-39.3	.19106	305.6	.00154576	.60280322

THULE, GREENLAND 8/22/65 1315Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
444.50	-30.4	-39.9	.18094	306.1	.00113878	.60394199
437.80	-30.9	-40.1	.18123	306.7	.00123805	.60518004
431.00	-31.7	-40.8	.17006	307.1	.00121878	.60639882
424.50	-32.3	-41.2	.16384	307.6	.00110732	.60750614
418.00	-33.1	-41.6	.16005	308.0	.00107411	.60858025
411.30	-33.8	-42.1	.15261	308.5	.00106877	.60964902
405.00	-34.3	-44.3	.11973	309.2	.00087535	.61052437
399.00	-35.1	-46.7	.09189	309.5	.00064781	.61117218
392.80	-35.7	-44.6	.11910	310.1	.00066741	.61183959
386.60	-36.5	-42.8	.15062	310.5	.00085320	.61269279
380.70	-37.1	-40.4	.20023	311.1	.00105613	.61374892
374.80	-38.0	-41.3	.18324	311.2	.00115430	.61490323
369.00	-38.9	-42.8	.15781	311.5	.00100921	.61591244
363.00	-39.8	-42.7	.16238	311.8	.00098015	.61689259
357.00	-40.8	-42.8	.16312	311.9	.00099640	.61788899
351.00	-41.5	-43.0	.16185	312.4	.00099479	.61888377
345.00	-42.4	-43.0	.16467	312.8	.00099953	.61988330
339.00	-43.3	-44.7	.13635	313.1	.00092147	.62080477
333.30	-44.1	-46.3	.11516	313.6	.00073142	.62153620
327.80	-45.0	-47.9	.09676	313.8	.00059466	.62213086
322.20	-46.0	-48.4	.09214	314.0	.00053971	.62267056
317.00	-47.1	-49.1	.08587	313.9	.00047226	.62314282
311.50	-47.9	-49.9	.07938	314.3	.00046369	.62360652
306.00	-48.8	-50.9	.07124	314.7	.00042264	.62402916
300.40	-49.6	-51.6	.06679	315.2	.00039434	.62442350
295.10	-50.7	-53.0	.05717	315.3	.00033517	.62475868
290.00	-51.7	-53.8	.05262	315.4	.00028566	.62504433
284.80	-52.5	-54.5	.04898	316.0	.00026955	.62531388
279.60	-53.0	-55.7	.04264	316.8	.00024307	.62555695
274.40	-53.4	-56.6	.03865	318.0	.00021566	.62577261
269.40	-53.4	-56.9	.03751	319.7	.00019430	.62596691
264.60	-53.2	-58.6	.03064	321.6	.00016689	.62613380
260.00	-52.8	-60.3	.02482	323.7	.00013015	.62626395
255.20	-52.5	-61.7	.02075	326.0	.00011156	.62637551
250.00	-51.6	-64.7	.01411	329.3	.00009248	.62646799
245.00	-50.5	-68.5	.00830	332.8	.00005718	.62652516
240.00	-49.1	-70.5	.00627	336.8	.00003718	.62656234
235.70	-47.9	-72.6	.00467	340.4	.00002401	.62658635
230.50	-47.6	-73.3	.00429	343.1	.00002378	.62661013
226.00	-47.3	-74.9	.00339	345.5	.00001764	.62662777
221.50	-46.3	-75.9	.00298	349.0	.00001463	.62664241
217.00	-45.5	-76.2	.00287	352.3	.00001344	.62665585
213.20	-44.9	-76.7	.00272	355.0	.00001085	.62666669
208.80	-44.7	-76.7	.00278	357.4	.00001235	.62667905
204.50	-44.7	-76.5	.00294	359.5	.00001255	.62669159
200.40	-44.7	-77.5	.00254	361.6	.00001146	.62670305
196.20	-44.7	-77.5	.00262	363.8	.00001106	.62671411
192.30	-44.7	-77.4	.00271	365.9	.00001059	.62672471
188.40	-44.7	-78.0	.00251	368.1	.00001037	.62673508
184.50	-44.5	-78.6	.00231	370.5	.00000958	.62674466
180.70	-44.5	-79.2	.00216	372.7	.00000866	.62675332
177.00	-44.4	-78.5	.00244	375.2	.00000869	.62676200
173.10	-44.2	-77.8	.00280	377.8	.00001042	.62677242
169.20	-44.1	-78.6	.00252	380.6	.00001058	.62678300
165.40	-44.1	-78.4	.00268	383.1	.00001009	.62679309

THULE, GREENLAND 8/22/65 1315Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
161.60	-44.2	-79.0	.00248	385.3	.00001000	.62680309
158.00	-44.4	-79.2	.00244	387.6	.00000902	.62681210
154.50	-44.4	-80.0	.00219	390.1	.00000826	.62682036
151.00	-44.7	-80.9	.00195	392.1	.00000738	.62682773
147.70	-44.7	-81.7	.00173	394.6	.00000620	.62683393
144.50	-44.7	-81.9	.00172	397.0	.00000563	.62683956
141.20	-44.4	-82.3	.00164	400.2	.00000565	.62684521
137.80	-44.1	-81.9	.00180	403.6	.00000596	.62685117
134.50	-44.1	-82.4	.00169	406.4	.00000587	.62685704
131.20	-43.9	-82.9	.00159	409.5	.00000551	.62686256
128.00	-43.9	-83.2	.00155	412.4	.00000511	.62686767
125.00	-44.1	-83.7	.00147	415.0	.00000462	.62687229
122.00	-44.1	-83.7	.00151	417.9	.00000456	.62687685
119.00	-44.2	-83.7	.00155	420.5	.00000466	.62688151
116.00	-44.4	-84.0	.00149	423.3	.00000463	.62688614
113.00	-44.4	-83.9	.00155	426.5	.00000465	.62689079
110.00	-44.2	-84.1	.00154	430.1	.00000474	.62689553
107.00	-44.1	-84.3	.00154	433.8	.00000471	.62690024
103.70	-43.9	-84.7	.00149	438.0	.00000508	.62690532
100.70	-43.5	-85.1	.00143	442.6	.00000446	.62690978
98.00	-43.3	-84.9	.00152	446.3	.00000407	.62691385
95.30	-43.2	-85.7	.00137	450.2	.00000398	.62691782
92.70	-43.0	-85.8	.00138	454.1	.00000364	.62692146
90.20	-42.9	-85.6	.00147	457.9	.00000364	.62692510
87.70	-43.0	-85.4	.00156	461.3	.00000386	.62692896
85.30	-43.2	-84.9	.00175	464.7	.00000405	.62693301
83.00	-43.2	-85.2	.00171	468.3	.00000405	.62693706
80.60	-43.3	-85.9	.00156	472.0	.00000399	.62694106
78.30	-43.3	-85.8	.00164	475.9	.00000374	.62694480
76.20	-43.5	-86.1	.00159	479.3	.00000346	.62694825
74.30	-43.6	-86.1	.00164	482.4	.00000313	.62695138
71.70	-43.8	-85.4	.00191	487.0	.00000471	.62695609
69.30	-43.5	-85.4	.00198	492.5	.00000477	.62696086
67.00	-43.6	-85.4	.00205	496.9	.00000472	.62696558
64.80	-43.6	-85.6	.00205	501.7	.00000459	.62697017
62.80	-43.8	-86.1	.00194	505.8	.00000405	.62697423
60.80	-43.5	-86.5	.00186	511.2	.00000387	.62697810
59.00	-43.3	-86.4	.00195	516.0	.00000350	.62698160
57.20	-43.2	-86.5	.00198	520.9	.00000361	.62698521
55.40	-43.2	-87.1	.00183	525.7	.00000349	.62698869
53.70	-43.3	-86.6	.00207	530.0	.00000338	.62699208
52.00	-43.5	-86.4	.00222	534.6	.00000371	.62699579
50.40	-43.8	-87.1	.00201	538.6	.00000344	.62699923
48.80	-43.9	-87.2	.00204	543.3	.00000331	.62700254
47.20	-43.9	-87.4	.00203	548.5	.00000332	.62700586
45.70	-43.9	-88.1	.00187	553.5	.00000298	.62700884
44.20	-43.6	-88.6	.00175	559.6	.00000277	.62701161
42.70	-43.9	-89.2	.00164	564.4	.00000259	.62701420
41.30	-44.2	-90.1	.00143	569.0	.00000218	.62701638
40.00	-44.5	-90.6	.00135	573.5	.00000183	.62701821
38.60	-44.7	-90.1	.00153	578.9	.00000204	.62702025
37.10	-45.3	-90.1	.00159	583.9	.00000237	.62702262
35.50	-45.5	-90.6	.00152	590.9	.00000253	.62702516
34.00	-45.2	-90.0	.00177	599.1	.00000250	.62702766
32.50	-44.9	-89.8	.00193	607.7	.00000283	.62703049

THULE, GREENLAND 8/22/65 1315Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
31.00	-44.5	-88.5	.00255	616.8	.00000343	.62703392
29.60	-44.2	-89.4	.00226	625.8	.00000343	.62703735
28.10	-44.1	-90.0	.00214	635.6	.00000337	.62704071
26.60	-44.1	-91.4	.00176	645.7	.00000298	.62704369
25.30	-44.1	-91.9	.00168	655.0	.00000228	.62704597
23.90	-43.9	-91.4	.00196	666.2	.00000259	.62704857
22.40	-44.1	-91.6	.00200	678.2	.00000302	.62705159
21.50	-43.5	-91.7	.00203	688.0	.00000185	.62705344
20.70	-43.0	-90.8	.00249	696.9	.00000183	.62705527
19.90	-42.6	-91.2	.00241	706.2	.00000200	.62705727
19.10	-41.8	-91.4	.00245	716.8	.00000198	.62705925
18.40	-41.4	-91.0	.00273	725.9	.00000185	.62706110
17.70	-40.9	-90.6	.00304	735.4	.00000206	.62706316
17.00	-40.2	-91.0	.00296	746.2	.00000213	.62706529
16.40	-39.8	-90.6	.00329	755.4	.00000191	.62706719
15.80	-39.0	-90.6	.00341	765.8	.00000204	.62706923
15.20	-38.8	-90.8	.00339	775.2	.00000207	.62707131
14.70	-38.8	-90.8	.00350	782.7	.00000174	.62707305
14.10	-38.6	-90.8	.00365	792.5	.00000218	.62707523
13.60	-38.5	-90.8	.00379	801.3	.00000189	.62707712
13.10	-38.5	-91.1	.00375	809.9	.00000192	.62707904
12.60	-38.3	-90.8	.00409	819.4	.00000200	.62708104
12.20	-38.3	-91.1	.00403	827.0	.00000165	.62708269
11.70	-38.2	-90.6	.00460	837.5	.00000219	.62708488
11.30	-38.2	-90.1	.00521	845.8	.00000200	.62708688
10.90	-38.2	-90.0	.00552	854.6	.00000219	.62708907
10.50	-38.0	-89.5	.00625	864.3	.00000240	.62709147
10.20	-37.8	-88.5	.00775	872.5	.00000213	.62709360

THULE, GREENLAND 8/22/65 1925Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
980.00	3.3	-6.5	2.25223	278.0		
965.00	2.2	-7.3	2.12181	278.1	.03347464	.03347464
950.00	.9	-9.0	1.86685	278.1	.03052533	.06399997
935.00	-.3	-9.4	1.83124	278.1	.02830160	.09230156
920.00	-1.7	-9.4	1.86119	278.0	.02825826	.12055983
904.00	-3.0	-10.1	1.76965	278.0	.02963933	.15019916
888.00	-4.2	-10.5	1.74172	278.3	.02866407	.17886323
873.00	-5.5	-10.9	1.71572	278.3	.02645986	.20532309
858.00	-6.4	-10.9	1.74580	278.7	.02649112	.23181421
844.00	-6.9	-12.0	1.61123	279.5	.02397865	.25579286
830.00	-7.3	-13.6	1.40617	280.4	.02155276	.27734561
813.00	-7.9	-14.3	1.35411	281.4	.02394116	.30128677
798.00	-8.1	-14.9	1.30302	282.7	.02033511	.32162188
783.00	-8.1	-14.6	1.36559	284.2	.02042294	.34204482
768.00	-6.9	-16.4	1.17914	287.1	.01947488	.36151969
754.00	-6.8	-18.1	1.02615	288.8	.01575199	.37727168
739.00	-6.2	-18.3	1.02042	291.0	.01566246	.39293414
724.00	-6.1	-19.6	.92110	292.9	.01485853	.40779267
710.00	-7.3	-18.3	1.06217	293.2	.01416618	.42195885
696.00	-8.3	-19.4	.98211	293.8	.01460190	.43656075
682.00	-9.3	-20.8	.86929	294.4	.01322417	.44978492
669.00	-10.4	-20.8	.88620	294.7	.01164348	.46142840
655.00	-11.4	-22.4	.77385	295.4	.01185744	.47328584
638.50	-13.3	-24.2	.67002	295.4	.01215495	.48544079
631.00	-13.7	-25.0	.62531	296.0	.00495662	.49039741
623.00	-14.3	-25.8	.58540	296.4	.00494167	.49533908
614.00	-14.5	-26.3	.56046	297.3	.00526157	.50060065
606.00	-14.6	-27.8	.48903	298.3	.00428359	.50488424
598.00	-14.9	-28.2	.47798	299.1	.00394693	.50883117
590.50	-15.6	-28.3	.47534	299.4	.00364788	.51247905
583.00	-16.4	-28.3	.48146	299.6	.00366120	.51614025
576.00	-17.1	-28.3	.48732	299.8	.00345989	.51960014
568.00	-17.9	-28.2	.50324	300.1	.00404307	.52364321
561.00	-18.5	-28.5	.49168	300.4	.00355327	.52719648
554.00	-19.3	-29.9	.43305	300.5	.00330257	.53049906
546.00	-20.1	-29.9	.43940	300.8	.00356098	.53406003
539.00	-20.7	-30.0	.43747	301.2	.00313164	.53719167
532.50	-21.3	-30.2	.43554	301.5	.00289516	.54008684
525.20	-22.1	-30.7	.41992	301.8	.00318611	.54327294
517.90	-22.6	-31.0	.41202	302.4	.00309852	.54637146
510.20	-23.3	-31.4	.39819	302.8	.00318293	.54955439
502.80	-24.2	-30.8	.43132	303.0	.00313179	.55268618
495.30	-24.9	-32.1	.38451	303.4	.00312178	.55580796
488.10	-25.8	-31.9	.39654	303.6	.00286916	.55867712
481.00	-26.8	-32.2	.38986	303.6	.00284865	.56152578
474.00	-27.9	-32.1	.40180	303.6	.00282733	.56435311
467.00	-28.6	-32.5	.38911	304.0	.00282468	.56717779
460.00	-29.4	-33.5	.35435	304.3	.00265519	.56983298
453.60	-29.9	-38.0	.22143	304.9	.00188008	.57171306
447.00	-30.6	-40.8	.16283	305.3	.00129391	.57300697
440.00	-31.1	-39.7	.18762	306.0	.00125158	.57425855
433.00	-31.9	-39.7	.19065	306.4	.00135097	.57560952
425.80	-32.6	-40.8	.17093	307.1	.00132827	.57693779
419.00	-33.2	-40.6	.17808	307.6	.00121084	.57814863
412.00	-33.9	-42.3	.14897	308.2	.00116803	.57931666
405.80	-34.9	-41.2	.17075	308.4	.00101136	.58032802

THULE, GREENLAND 8/22/65 1925Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
399.40	-35.5	-38.1	.24810	308.9	.00136766	.58169568
393.00	-36.4	-36.1	.31411	309.2	.00183576	.58353144
386.70	-37.4	-36.1	.31923	309.3	.00203571	.58556715
380.30	-37.9	-37.1	.29039	310.1	.00199057	.58755772
374.20	-38.8	-37.6	.27953	310.4	.00177373	.58933145
368.20	-39.6	-38.2	.26566	310.7	.00166894	.59100039
361.70	-40.7	-39.1	.24343	310.9	.00168827	.59268866
355.00	-41.7	-39.4	.24171	311.1	.00165835	.59434702
348.90	-42.5	-40.4	.21927	311.7	.00143467	.59578168
342.80	-43.4	-41.6	.19483	312.0	.00128877	.59707046
336.90	-44.2	-42.6	.17576	312.5	.00111556	.59818602
331.00	-45.1	-43.9	.15363	312.7	.00099154	.59917755
325.30	-46.4	-44.8	.14108	312.5	.00085706	.60003461
320.00	-47.1	-45.7	.12822	313.1	.00072819	.60076280
314.40	-48.1	-46.8	.11437	313.2	.00069310	.60145590
309.00	-49.0	-48.5	.09501	313.6	.00057685	.60203275
302.90	-50.0	-50.2	.07876	313.9	.00054081	.60257356
296.70	-50.7	-50.2	.08041	314.8	.00050348	.60307704
290.90	-51.8	-50.9	.07484	315.0	.00045940	.60353644
285.20	-52.6	-51.8	.06832	315.7	.00041634	.60395278
280.00	-53.7	-54.1	.05227	315.7	.00031994	.60427272
274.70	-54.1	-54.9	.04787	316.9	.00027080	.60454352
269.80	-54.5	-55.1	.04781	317.9	.00023921	.60478273
264.80	-54.5	-55.6	.04554	319.6	.00023814	.60502087
260.00	-54.1	-57.1	.03792	321.9	.00020437	.60522524
255.00	-52.8	-59.5	.02829	325.7	.00016889	.60539412
249.30	-51.6	-62.6	.01901	329.4	.00013754	.60553166
244.00	-50.5	-66.5	.01115	333.1	.00008154	.60561320
239.00	-49.7	-70.4	.00640	336.4	.00004478	.60565798
234.80	-48.4	-71.5	.00556	340.0	.00002563	.60568361
229.00	-47.9	-71.8	.00546	343.2	.00003260	.60571621
224.30	-47.3	-72.3	.00517	346.3	.00002548	.60574169
220.00	-47.3	-72.8	.00487	348.2	.00002202	.60576372
215.50	-46.9	-73.3	.00460	350.8	.00002176	.60578547
211.00	-46.8	-73.8	.00434	353.1	.00002053	.60580601
206.20	-46.3	-73.9	.00439	356.2	.00002138	.60582739
201.60	-45.3	-75.4	.00355	360.1	.00001864	.60584603
197.20	-45.0	-75.4	.00359	362.9	.00001603	.60586207
192.90	-45.0	-75.7	.00350	365.2	.00001554	.60587761
189.00	-45.1	-75.9	.00348	367.0	.00001389	.60589150
185.00	-45.1	-76.2	.00339	369.3	.00001402	.60590552
181.00	-45.1	-76.2	.00346	371.6	.00001398	.60591950
177.20	-45.0	-76.6	.00333	374.1	.00001316	.60593265
173.20	-45.1	-77.3	.00304	376.3	.00001298	.60594563
168.20	-45.1	-77.5	.00305	379.5	.00001551	.60596114
163.70	-45.0	-77.7	.00301	382.7	.00001390	.60597505
159.50	-44.8	-77.7	.00309	385.8	.00001307	.60598812
155.80	-44.8	-77.9	.00308	388.4	.00001164	.60599975
152.40	-44.8	-78.5	.00287	390.9	.00001033	.60601008
149.00	-45.0	-78.6	.00286	393.1	.00000994	.60602002
145.60	-45.0	-78.7	.00289	395.7	.00000997	.60602999
142.50	-45.0	-79.0	.00283	398.2	.00000905	.60603903
139.00	-45.0	-79.1	.00283	401.0	.00001010	.60604914
135.20	-45.0	-80.2	.00246	404.2	.00001024	.60605937
131.60	-45.1	-80.7	.00231	407.0	.00000875	.60606812

THULE, GREENLAND 8/22/65 1925Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
128.20	-45.3	-80.2	.00259	409.8	.00000849	.60607661
125.00	-45.1	-80.1	.00269	413.1	.00000861	.60608523
121.70	-44.8	-80.2	.00269	416.8	.00000906	.60609429
118.70	-44.7	-80.4	.00268	420.1	.00000821	.60610250
115.70	-44.3	-80.7	.00263	423.8	.00000812	.60611062
112.80	-44.8	-80.7	.00270	425.9	.00000787	.60611849
110.00	-45.0	-80.7	.00277	428.7	.00000779	.60612628
107.20	-44.7	-80.7	.00284	432.5	.00000800	.60613428
104.60	-44.0	-80.8	.00287	436.7	.00000755	.60614184
102.00	-44.0	-80.9	.00290	439.9	.00000764	.60614948
99.40	-44.0	-81.0	.00289	443.1	.00000766	.60615714
96.80	-44.0	-81.1	.00292	446.5	.00000769	.60616483
94.20	-44.0	-81.2	.00296	450.0	.00000779	.60617262
91.70	-43.9	-82.0	.00265	453.8	.00000714	.60617976
89.00	-43.9	-81.9	.00277	457.7	.00000745	.60618721
86.50	-43.9	-82.0	.00280	461.4	.00000711	.60619432
84.10	-43.9	-82.4	.00271	465.1	.00000675	.60620107
81.80	-44.0	-82.5	.00274	468.5	.00000639	.60620746
79.50	-44.0	-82.6	.00278	472.4	.00000647	.60621393
77.30	-43.9	-82.5	.00290	476.5	.00000636	.60622029
75.20	-43.9	-82.5	.00298	480.3	.00000630	.60622659
73.00	-43.9	-81.9	.00338	484.3	.00000712	.60623372
70.80	-44.0	-83.8	.00256	488.3	.00000666	.60624038
68.60	-44.0	-82.5	.00327	492.7	.00000654	.60624692
66.50	-44.0	-83.0	.00311	497.1	.00000682	.60625374
64.40	-44.2	-83.6	.00291	501.3	.00000645	.60626020
62.20	-44.0	-83.7	.00296	506.7	.00000659	.60626678
60.20	-43.7	-83.9	.00296	512.1	.00000603	.60627282
58.30	-43.6	-84.4	.00281	517.2	.00000559	.60627840
56.40	-43.6	-84.7	.00275	522.1	.00000538	.60628378
54.50	-43.6	-84.6	.00290	527.2	.00000547	.60628925
52.70	-43.7	-84.5	.00305	532.0	.00000545	.60629471
50.70	-43.7	-84.6	.00312	537.9	.00000629	.60630099
49.00	-44.0	-85.5	.00274	542.4	.00000507	.60630606
47.20	-44.7	-85.8	.00269	546.7	.00000498	.60631104
45.60	-45.0	-85.8	.00279	551.4	.00000447	.60631551
44.00	-45.3	-85.9	.00283	556.3	.00000457	.60632008
42.60	-45.6	-86.2	.00276	560.6	.00000399	.60632408
41.10	-45.6	-86.8	.00260	566.4	.00000410	.60632817
39.30	-45.6	-87.3	.00251	573.7	.00000468	.60633285
37.90	-45.8	-87.8	.00235	579.2	.00000346	.60633631
36.60	-46.1	-87.8	.00243	584.2	.00000316	.60633947
35.10	-45.6	-87.8	.00253	592.5	.00000378	.60634325
33.70	-45.0	-87.6	.00275	601.1	.00000377	.60634702
32.30	-44.2	-87.6	.00287	610.6	.00000401	.60635103
30.90	-43.6	-87.1	.00325	620.0	.00000437	.60635540
29.40	-43.7	-87.1	.00342	628.5	.00000510	.60636050
28.10	-43.7	-88.3	.00291	636.7	.00000419	.60636468
26.60	-43.7	-89.0	.00269	646.7	.00000428	.60636896
25.20	-43.6	-88.9	.00290	657.2	.00000399	.60637295
23.80	-43.6	-89.0	.00301	668.1	.00000422	.60637717
22.40	-43.4	-89.2	.00312	680.2	.00000437	.60638154
21.00	-43.4	-89.3	.00326	692.9	.00000454	.60638608

TRINIDAD, W.I. 1/23/64 1341Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1001.40	26.6	17.4	12.54319	299.7		
1000.30	25.2	17.4	12.55726	298.4	.01408693	.01408693
1000.10	25.0	17.4	12.55982	298.2	.00256294	.01664987
1000.00	25.0	18.8	13.82955	298.2	.00134638	.01799625
984.00	23.7	17.4	12.76954	298.2	.21713455	.23513080
965.80	22.5	17.4	13.01521	298.6	.23942886	.47455966
949.40	22.1	18.8	14.58390	299.7	.23093043	.70549010
937.50	21.4	17.4	13.41657	300.0	.17000219	.87549229
929.00	19.9	14.7	11.36801	299.3	.10748373	.98297602
920.00	18.7	14.7	11.48127	298.9	.10491978	1.08789580
885.00	17.3	14.7	11.94406	300.8	.41830781	1.50620361
862.00	15.8	13.4	11.28367	301.4	.27256918	1.77877279
850.00	14.6	10.0	9.11927	301.4	.12491547	1.90368825
834.00	13.4	9.0	8.68078	301.9	.14530595	2.04899420
818.00	14.8	4.5	6.45011	304.9	.12351696	2.17251116
801.00	14.4	-7.0	2.64145	306.4	.07885501	2.25136617
784.00	13.3	-14.5	1.37392	307.1	.03482699	2.28619316
769.00	13.0	-19.3	.89492	308.4	.01736346	2.30355662
754.00	12.2	-28.4	.37155	309.3	.00969230	2.31324892
740.00	12.0	-29.5	.33701	310.8	.00506113	2.31831005
725.00	11.5	-32.6	.24890	312.1	.00448398	2.32279404
710.00	10.6	-23.9	.61683	312.9	.00662543	2.32941946
696.00	9.8	-20.4	.88870	313.8	.01075372	2.34017318
682.00	8.7	-20.1	.93051	314.5	.01299430	2.35316749
667.00	7.8	-20.1	.95147	315.4	.01440291	2.36757040
652.00	7.1	-24.2	.65685	316.6	.01230857	2.37987897
638.00	6.3	-25.9	.56200	317.8	.00870606	2.38858503
624.00	5.0	-27.4	.49639	318.3	.00755990	2.39614493
610.70	3.6	-27.8	.48709	318.6	.00667359	2.40281852
597.20	2.3	-26.6	.56328	319.2	.00723466	2.41005318
584.00	.9	-28.9	.45244	319.6	.00684050	2.41689368
570.50	-.6	-27.2	.55391	319.9	.00693142	2.42382510
557.00	-1.6	-30.4	.40790	321.0	.00662467	2.43044977
544.30	-1.4	-32.7	.32611	323.3	.00475609	2.43520586
533.40	-2.2	-34.3	.28203	324.2	.00338198	2.43858784
521.50	-3.2	-37.1	.21197	325.2	.00299922	2.44158706
510.00	-3.7	-38.9	.17727	326.6	.00228380	2.44387086
498.00	-4.2	-41.7	.13170	328.2	.00189167	2.44576253
486.00	-5.4	-42.4	.12500	329.1	.00157163	2.44733416
475.00	-6.4	-43.1	.11719	329.9	.00135924	2.44869339
472.00	-6.6	-45.2	.09269	330.4	.00032124	2.44901463
462.70	-7.7	-45.6	.09026	330.8	.00086807	2.44988270
453.00	-8.6	-41.3	.15245	331.7	.00120114	2.45108384
441.70	-9.9	-44.5	.10760	332.5	.00149928	2.45258312
431.30	-11.1	-44.3	.11291	333.2	.00117007	2.45375319
421.20	-12.5	-43.0	.13384	333.7	.00127153	2.45502472
411.50	-14.2	-42.5	.14583	333.7	.00138408	2.45640880
401.60	-15.6	-42.5	.14942	334.2	.00149131	2.45790011
392.00	-17.5	-43.0	.14381	334.1	.00143626	2.45933637
382.30	-18.9	-47.8	.08417	334.6	.00112826	2.46046463
373.00	-20.2	-48.8	.07567	335.3	.00075838	2.46122301
362.80	-22.2	-48.1	.08488	335.3	.00083551	2.46205851
352.80	-23.8	-48.1	.08729	335.8	.00087841	2.46293692
343.20	-25.5	-48.8	.08224	336.1	.00083032	2.46376725
333.90	-26.9	-50.3	.07053	336.9	.00072487	2.46449211
329.50	-28.8	-52.8	.05251	335.5	.00027622	2.46476834

TRINIDAD,W.I. 1/23/64 1341Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
320.00	-29.9	-55.0	.04056	336.9	.00078782	2.46555616
310.80	-31.2	-56.8	.03312	337.9	.00034581	2.46590197
301.50	-32.8	-54.5	.04610	338.6	.00037587	2.46627784
292.40	-34.1	-52.5	.06098	339.7	.00049715	2.46677499
283.30	-34.9	-59.1	.02681	341.6	.00040759	2.46718258
279.40	-35.9	-53.2	.05890	341.6	.00017054	2.46735312
270.50	-37.4	-55.5	.04527	342.6	.00047299	2.46782611
261.90	-39.5	-55.8	.04454	342.6	.00039406	2.46822017
256.20	-40.8	-59.7	.02723	342.9	.00020872	2.46842889
248.50	-42.0	-60.8	.02439	344.1	.00020280	2.46863170
240.80	-43.7	-61.4	.02295	344.7	.00018597	2.46881767
233.00	-44.9	-62.3	.02103	346.1	.00017501	2.46899268
225.00	-46.3	-63.7	.01794	347.4	.00015904	2.46915172
217.70	-47.6	-65.2	.01510	348.6	.00012304	2.46927476
210.30	-49.2	-67.4	.01133	349.7	.00009979	2.46937455
202.50	-50.4	-68.8	.00961	351.6	.00008333	2.46945788
195.50	-52.4	-69.8	.00859	352.0	.00006498	2.46952286
188.70	-54.1	-70.1	.00847	352.8	.00005916	2.46958202
182.00	-56.4	-69.9	.00913	352.6	.00006016	2.46964218
175.00	-58.7	-70.5	.00860	352.8	.00006332	2.46970549
168.30	-61.0	-71.1	.00816	353.0	.00005728	2.46976277
162.00	-63.4	-71.3	.00831	352.8	.00005293	2.46981570
155.50	-65.8	-73.2	.00647	353.0	.00004898	2.46986468
149.20	-67.7	-71.1	.00921	353.8	.00005038	2.46991506
142.30	-70.1	-77.7	.00350	354.4	.00004472	2.46995978
136.00	-72.4	-81.4	.00198	354.9	.00001761	2.46997739
130.20	-73.5	-82.6	.00169	357.5	.00001086	2.46998826
124.70	-74.9	-82.7	.00174	359.3	.00000963	2.46999788
119.00	-75.3	-83.3	.00164	363.4	.00000982	2.47000770
113.50	-76.5	-84.7	.00136	366.2	.00000840	2.47001611
107.70	-78.2	-80.8	.00276	368.6	.00001217	2.47002828
102.20	-79.1	-84.0	.00171	372.4	.00001255	2.47004083
97.00	-80.0	-86.9	.00108	376.3	.00000742	2.47004825

TRINIDAD,W.I. 2/27/64 1353Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1017.80	28.8	14.5	10.21474	300.4		
1008.50	27.8	15.6	11.13145	300.2	.10128510	.10128510
995.00	26.5	15.6	11.28522	300.1	.15439996	.25568506
982.50	25.1	14.5	10.58799	299.8	.13949698	.39518204
971.00	24.0	18.1	13.58599	299.6	.14183657	.53701861
960.00	22.6	15.6	11.70441	299.2	.14193533	.67895395
947.00	21.3	19.4	15.15607	299.1	.17815553	.85710947
936.00	20.0	20.9	16.80978	298.8	.17939946	1.03650893
924.00	18.8	24.0	20.68310	298.6	.22954729	1.26605622
912.00	18.1	18.1	14.48538	299.0	.21531636	1.48137258
899.00	17.2	18.1	14.69980	299.3	.19357435	1.67494693
886.00	16.3	16.8	13.72021	299.7	.18849924	1.86344618
870.00	15.3	16.8	13.97820	300.2	.22610854	2.08955471
854.00	14.8	18.1	15.49367	301.3	.24058574	2.33014046
838.00	14.8	15.6	13.44522	302.9	.23623493	2.56637539
822.00	15.5	1.0	5.02010	305.3	.15073672	2.71711211
807.00	15.7	-4.6	3.21959	307.1	.06305854	2.78017065
792.00	16.2	3.8	6.33666	309.3	.07313421	2.85330486
777.00	15.5	-1.4	4.39359	310.2	.08211890	2.93542376
762.00	14.8	-8.3	2.48058	311.2	.05260822	2.98803198
748.00	13.5	-7.8	2.62208	311.5	.03644742	3.02447940
734.00	12.1	-11.8	1.87739	311.6	.03213891	3.05661832
720.00	11.0	-11.4	1.97931	312.1	.02754772	3.08416604
707.00	10.0	-11.1	2.08282	312.7	.02694260	3.11110863
694.00	9.1	-9.5	2.44043	313.3	.03000106	3.14110969
680.00	7.9	-15.5	1.44647	313.8	.02776346	3.16887315
667.00	7.0	-21.2	.85576	314.5	.01526979	3.18414293
654.00	5.8	-19.2	1.06025	314.9	.01270814	3.19685107
643.00	4.9	-17.9	1.22693	315.5	.01283616	3.20968723
633.00	3.8	-18.1	1.21349	315.6	.01245107	3.22213830
621.00	2.5	-15.2	1.62959	315.8	.01740654	3.23954484
608.00	1.5	-14.9	1.71487	316.6	.02218258	3.26172742
596.00	.5	-12.9	2.09973	317.3	.02335460	3.28508203
584.00	-.6	-7.8	3.36240	317.9	.03344145	3.31852348
573.00	-1.8	-5.1	4.36032	318.2	.04334164	3.36186512
561.00	-3.0	-4.6	4.64192	318.7	.05511555	3.41698067
551.00	-4.2	-7.4	3.70660	318.9	.04259431	3.45957498
540.00	-5.5	-23.3	.86296	319.2	.02564542	3.48522040
535.00	-4.0	-37.5	.19827	321.8	.00270721	3.48792762
520.80	-3.7	-45.4	.08236	324.7	.00203311	3.48996073
509.00	-4.0	-50.0	.04807	326.4	.00078522	3.49074595
497.60	-4.7	-51.6	.04008	327.7	.00051269	3.49125864
486.70	-5.7	-51.5	.04183	328.5	.00045548	3.49171412
475.90	-6.9	-47.9	.06622	329.2	.00059535	3.49230947
465.20	-7.9	-45.3	.09323	330.1	.00087047	3.49317993
455.50	-8.9	-47.8	.06991	330.8	.00080740	3.49398734
446.80	-9.9	-48.3	.06756	331.4	.00061020	3.49459754
437.00	-11.3	-52.2	.04254	331.8	.00055048	3.49514802
427.70	-12.5	-44.7	.10861	332.2	.00071715	3.49586517
418.30	-13.8	-45.1	.10605	332.8	.00102949	3.49689466
409.20	-14.1	-49.0	.06780	334.4	.00080715	3.49770181
400.50	-14.4	-45.6	.10353	336.1	.00076048	3.49846229
392.50	-15.6	-42.9	.14615	336.4	.00101909	3.49948138
383.60	-16.7	-45.0	.11700	337.2	.00119486	3.50067624
375.50	-17.4	-44.5	.12657	338.3	.00100657	3.50168282
368.00	-19.5	-44.7	.12623	337.5	.00096734	3.50265016

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
360.00	-21.0	-45.1	.12323	337.6	.00197549	3.50462565
352.00	-22.6	-45.5	.12047	337.6	.00099471	3.50562036
343.90	-24.0	-46.4	.11027	338.0	.00095358	3.50657395
335.90	-25.5	-46.9	.10567	338.2	.00088139	3.50745533
328.00	-27.3	-47.0	.10707	338.1	.00085747	3.50831281
320.30	-28.5	-48.8	.08845	338.7	.00076813	3.50908093
313.00	-29.9	-49.6	.08234	338.9	.00063612	3.50971705
305.10	-31.5	-51.5	.06673	339.2	.00060081	3.51031786
296.00	-32.8	-53.1	.05629	340.3	.00057115	3.51088901
290.00	-34.4	-53.7	.05309	340.0	.00033483	3.51122384
283.10	-35.9	-53.8	.05384	340.2	.00037643	3.51160027
274.30	-37.4	-54.0	.05395	341.1	.00048396	3.51208423
269.00	-38.3	-56.1	.04193	341.8	.00068894	3.51277317
265.20	-39.7	-57.1	.03754	341.1	.00015405	3.51292722
261.50	-40.4	-57.6	.03526	341.4	.00013742	3.51306464
257.40	-41.5	-59.7	.02720	341.4	.00013065	3.51319529
253.90	-42.2	-61.1	.02272	341.7	.00008912	3.51328442
249.80	-42.8	-62.1	.02027	342.4	.00008991	3.51337433
246.00	-43.6	-64.4	.01495	342.7	.00006828	3.51344261
242.00	-44.0	-63.7	.01670	343.7	.00006460	3.51350720
238.00	-44.7	-63.5	.01747	344.4	.00006974	3.51357694
234.80	-45.4	-63.8	.01690	344.5	.00005610	3.51363304
231.20	-46.2	-62.2	.02149	344.8	.00007050	3.51370354
228.00	-47.2	-63.6	.01790	344.7	.00006430	3.51376784
224.30	-47.7	-65.5	.01394	345.5	.00006011	3.51382795
220.40	-48.2	-67.1	.01125	346.5	.00005011	3.51387806
217.20	-48.9	-69.2	.00847	980.8	.00003217	3.51391023
213.50	-49.4	-70.3	.00723	347.8	.00002962	3.51393986
209.80	-50.5	-69.0	.00903	347.9	.00003070	3.51397055
206.20	-51.2	-69.0	.00910	348.5	.00003329	3.51400384
202.70	-52.3	-69.1	.00916	348.5	.00003260	3.51403645
198.70	-53.2	-70.3	.00777	349.0	.00003454	3.51407099
195.00	-54.3	-68.4	.01053	349.1	.00003454	3.51410553
191.60	-55.1	-69.8	.00875	349.6	.00003344	3.51413897
188.50	-55.9	-69.0	.00995	349.9	.00002958	3.51416855
185.20	-56.7	-70.4	.00825	350.4	.00003065	3.51419920
182.30	-57.2	-69.5	.00959	351.3	.00002639	3.51422559
179.70	-58.2	-66.0	.01611	351.0	.00003408	3.51425967
177.00	-58.9	-69.2	.01039	351.4	.00003649	3.51429616
174.30	-59.3	-70.1	.00914	352.3	.00002690	3.51432306
171.50	-60.4	-70.6	.00864	352.0	.00002539	3.51434845
168.50	-61.1	-70.0	.00965	352.7	.00002798	3.51437643
165.70	-62.3	-70.0	.00981	352.4	.00002779	3.51440422
162.80	-63.1	-72.2	.00720	352.9	.00002517	3.51442939
160.00	-63.6	-72.0	.00757	353.8	.00002110	3.51445049
156.80	-64.3	-76.4	.00389	354.5	.00001870	3.51446919
153.70	-65.4	-74.9	.00503	354.8	.00001410	3.51448329
150.50	-66.2	-74.7	.00532	355.5	.00001690	3.51450019
147.00	-66.8	-78.3	.00306	357.0	.00001495	3.51451513
144.30	-67.9	-80.5	.00218	356.8	.00000720	3.51452233
142.00	-68.5	-80.3	.00228	357.5	.00000523	3.51452756
139.60	-69.1	-78.2	.00326	358.1	.00000678	3.51453434
137.00	-69.4	-78.0	.00346	359.5	.00000890	3.51454324
134.30	-70.0	-78.6	.00317	360.5	.00000912	3.51455235
131.50	-70.0	-79.6	.00275	362.7	.00000846	3.51456082

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
128.70	-70.7	-80.5	.00244	363.8	.00001603	3.51457685
126.10	-71.0	-82.2	.00188	365.3	.00000572	3.51458257
123.70	-71.3	-83.9	.00143	366.7	.00000405	3.51458663
121.10	-71.3	-82.5	.00187	368.9	.00000437	3.51459099
118.50	-71.7	-81.1	.00240	370.6	.00000565	3.51459664
115.80	-72.0	-79.8	.00304	372.5	.00000748	3.51460412
114.40	-72.3	-79.6	.00317	373.1	.00000443	3.51460855
112.50	-72.7	-80.4	.00284	374.2	.00000581	3.51461436
110.70	-73.0	-81.6	.00235	375.3	.00000475	3.51461911
108.70	-73.4	-82.1	.00222	376.6	.00000465	3.51462376
106.50	-74.1	-82.2	.00223	377.4	.00000498	3.51462874
104.50	-74.9	-87.2	.00095	378.1	.00000323	3.51463197
102.30	-75.2	-87.5	.00093	379.6	.00000210	3.51463407
100.00	-75.6	-85.2	.00142	381.4	.00000274	3.51463681
97.70	-75.6	-84.0	.00179	383.9	.00000376	3.51464057
95.20	-75.6	-84.2	.00177	386.8	.00000453	3.51464510
92.90	-75.2	-84.6	.00170	390.2	.00000407	3.51464917
91.50	-74.9	-85.3	.00152	392.7	.00000229	3.51465146
87.80	-74.5	-87.0	.00117	398.1	.00000508	3.51465654
85.20	-74.5	-87.5	.00112	401.5	.00000302	3.51465957
82.50	-74.5	-85.2	.00172	405.2	.00000390	3.51466347
79.70	-73.4	-87.3	.00122	411.5	.00000419	3.51466766
78.00	-72.7	-88.5	.00101	415.5	.00000192	3.51466958
76.00	-72.0	-87.0	.00136	420.1	.00000241	3.51467200
74.20	-72.0	-86.1	.00162	423.0	.00000273	3.51467472
72.30	-72.0	-87.1	.00140	426.1	.00000292	3.51467764
70.50	-72.0	-87.1	.00143	429.2	.00000259	3.51468024
68.70	-72.0	-86.3	.00168	432.4	.00000286	3.51468310
66.80	-71.7	-86.5	.00170	436.6	.00000328	3.51468638
65.00	-71.3	-86.6	.00171	440.7	.00000313	3.51468951
63.20	-71.0	-86.8	.00170	445.0	.00000313	3.51469263
61.40	-70.7	-86.5	.00185	449.4	.00000325	3.51469588
59.50	-69.4	-86.0	.00206	456.3	.00000379	3.51469967
57.70	-68.2	-86.5	.00197	463.0	.00000370	3.51470336
56.00	-67.3	-87.0	.00184	469.0	.00000329	3.51470666
54.10	-66.5	-87.7	.00169	475.6	.00000341	3.51471007
52.50	-64.9	-87.2	.00189	483.5	.00000291	3.51471297
51.00	-63.1	-87.1	.00198	491.7	.00000295	3.51471592
49.40	-61.1	-87.1	.00205	500.7	.00000328	3.51471920
48.00	-59.3	-85.9	.00260	509.2	.00000331	3.51472251
46.50	-59.1	-85.7	.00279	514.4	.00000411	3.51472662
45.30	-58.0	-85.5	.00297	520.8	.00000352	3.51473014
44.50	-57.0	-86.5	.00255	526.1	.00000225	3.51473239
43.20	-55.9	-87.9	.00203	533.1	.00000302	3.51473542
41.80	-54.9	-88.1	.00201	540.6	.00000288	3.51473829
40.30	-54.5	-88.5	.00196	547.2	.00000302	3.51474132
39.00	-54.5	-90.0	.00155	552.4	.00000232	3.51474364
37.50	-54.7	-90.4	.00150	558.1	.00000232	3.51474597
36.30	-54.9	-91.7	.00121	562.8	.00000165	3.51474762
35.00	-54.9	-92.7	.00104	568.7	.00000148	3.51474909
33.70	-54.5	-91.4	.00137	575.9	.00000159	3.51475069
32.50	-54.3	-89.7	.00195	582.4	.00000203	3.51475272
31.30	-54.1	-90.8	.00167	589.3	.00000221	3.51475492
30.00	-54.1	-92.0	.00139	596.4	.00000203	3.51475695
29.00	-54.0	-91.7	.00151	602.8	.00000148	3.51475842

TRINIDAD, W.I. 2/27/64 1353Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
27.80	-54.0	-92.9	.00127	610.1	.00000298	3.51476140
26.80	-53.8	-92.4	.00143	617.1	.00000137	3.51476277
25.70	-53.0	-92.7	.00141	626.6	.00000159	3.51476437
24.80	-53.0	-93.2	.00135	633.0	.00000127	3.51476564
23.80	-53.0	-93.0	.00144	640.5	.00000142	3.51476705
23.00	-52.6	-93.0	.00149	647.9	.00000119	3.51476824
22.20	-52.5	-92.3	.00178	655.1	.00000133	3.51476957
21.30	-52.3	-92.4	.00180	663.4	.00000164	3.51477121
20.30	-51.9	-91.9	.00210	673.7	.00000198	3.51477319
19.60	-51.4	-92.0	.00212	682.2	.00000151	3.51477470
18.80	-50.6	-91.4	.00246	692.6	.00000186	3.51477656
18.10	-50.6	-92.6	.00206	700.1	.00000161	3.51477817
17.30	-50.8	-92.9	.00204	708.7	.00000167	3.51477984
16.80	-50.8	-90.9	.00304	714.6	.00000128	3.51478112

TRINIDAD,W.I. 3/26/64 13272

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
998.50	28.0	19.5	14.40162	301.3		
986.00	27.2	19.5	14.58848	301.6	.18488505	.18488505
975.00	26.2	20.6	15.82164	301.5	.17066835	.35555340
964.00	25.6	20.6	16.00683	301.9	.17862846	.53418186
943.00	25.0	20.6	16.37267	303.2	.34692183	.88110369
939.00	23.5	20.6	16.44426	302.1	.06697306	.94807675
925.00	22.3	20.6	16.69983	302.1	.23674257	1.18481933
910.00	21.0	19.5	15.83788	302.2	.24901208	1.43383141
894.00	19.9	18.4	15.03492	302.6	.25202185	1.68585326
876.00	18.4	16.3	13.47385	302.8	.26181422	1.94766748
860.00	17.9	11.1	9.71985	303.8	.18933558	2.13700306
846.00	17.3	9.6	8.92886	304.7	.13320456	2.27020763
828.00	16.3	6.3	7.22533	305.5	.14835420	2.41856183
811.00	16.0	2.7	5.75592	307.0	.11259203	2.53115386
794.00	15.7	-4.6	3.27604	308.5	.07833813	2.60949199
777.00	14.5	-12.7	1.63085	309.2	.04255959	2.65205158
760.00	13.4	-15.1	1.34395	309.9	.02580172	2.67785330
745.00	12.1	-13.0	1.65871	310.3	.02297942	2.70083272
731.00	10.9	-13.5	1.61015	310.7	.02334893	2.72418165
716.00	9.7	-13.3	1.68496	311.2	.02521762	2.74939927
702.00	8.5	-11.9	1.94833	311.6	.02595198	2.77535126
687.00	7.9	-21.1	.83739	312.9	.02131921	2.79667047
673.00	7.9	-32.0	.28617	314.7	.00802539	2.80469586
658.00	7.9	-24.2	.64807	316.7	.00714971	2.81184557
634.00	7.9	-24.2	.67262	320.1	.01617163	2.82801720
629.00	7.1	-19.6	1.06459	320.0	.00443165	2.83244886
616.00	6.7	-34.6	.23670	321.4	.00863096	2.84107982
604.00	6.3	-31.8	.32315	322.7	.00342764	2.84450746
591.00	5.1	-27.4	.52530	323.4	.00562748	2.85013494
578.00	4.0	-28.2	.49141	324.1	.00674351	2.85687844
566.00	2.7	-31.3	.36360	324.6	.00523475	2.86211319
554.00	1.9	-33.4	.29797	325.6	.00405039	2.86616358
542.00	1.0	-34.0	.28610	326.6	.00357589	2.86973947
530.30	-.3	-35.2	.25566	327.0	.00323395	2.87297343
519.00	-1.5	-33.6	.31021	327.6	.00326239	2.87623581
507.00	-2.3	-35.4	.26111	328.8	.00349785	2.87973367
496.00	-3.9	-32.6	.36387	329.0	.00350752	2.88324119
484.20	-5.4	-32.7	.36789	329.4	.00440544	2.88764663
472.50	-7.0	-37.7	.21959	329.8	.00350687	2.89115350
461.00	-8.4	-42.3	.13327	330.4	.00207032	2.89322382
450.00	-9.0	-50.4	.05196	331.9	.00103949	2.89426331
439.00	-9.6	-53.8	.03453	333.4	.00048535	2.89474866
429.00	-10.6	-55.9	.02690	334.3	.00031340	2.89506206
419.00	-12.3	-57.4	.02268	334.5	.00025295	2.89531501
409.00	-14.0	-58.6	.01978	334.6	.00021662	2.89553162
399.00	-15.8	-59.2	.01871	334.7	.00019638	2.89572801
389.50	-16.8	-57.1	.02550	335.7	.00021426	2.89594227
379.70	-18.3	-54.8	.03530	336.2	.00030401	2.89624628
370.00	-19.8	-53.0	.04521	336.6	.00039844	2.89664473
361.00	-21.4	-51.9	.05353	336.8	.00045341	2.89709814
351.60	-22.5	-52.1	.05349	337.9	.00051329	2.89761142
342.00	-23.4	-54.0	.04352	339.3	.00047514	2.89808656
333.00	-24.7	-55.9	.03466	340.2	.00035897	2.89844553
323.50	-26.5	-56.8	.03180	340.5	.00032213	2.89876767
314.00	-27.8	-58.0	.02792	341.7	.00028950	2.89905716
305.00	-29.2	-58.5	.02701	342.5	.00025223	2.89930940

TRINIDAD,W.I. 3/26/64 1327Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
297.00	-30.7	-58.0	.02952	343.0	.00049827	2.89980766
289.00	-31.9	-57.7	.03145	344.0	.00024885	2.90005651
280.00	-33.0	-51.0	.07766	345.5	.00050098	2.90055749
272.00	-34.6	-47.2	.12689	346.0	.00083488	2.90139237
264.00	-36.3	-47.1	.13195	346.5	.00105646	2.90244883
256.30	-37.6	-39.2	.33928	347.5	.00185123	2.90430006
249.00	-39.4	-42.0	.25448	347.8	.00221145	2.90651152
241.50	-40.7	-42.2	.25709	348.8	.00195755	2.90846907
239.00	-41.5	-46.7	.15282	348.7	.00052284	2.90899190
234.00	-42.3	-42.0	.27080	349.6	.00108065	2.91007255
232.50	-42.0	-42.6	.25380	350.8	.00040147	2.91047402
229.00	-42.6	-43.7	.22836	351.3	.00086099	2.91133501
226.00	-43.2	-45.3	.19206	351.7	.00064349	2.91197850
222.70	-44.0	-47.3	.15205	351.9	.00057936	2.91255786
219.50	-44.5	-48.0	.14316	352.6	.00048196	2.91303982
216.50	-45.5	-48.6	.13471	352.5	.00042531	2.91346513
213.50	-46.2	-49.2	.12685	352.9	.00040035	2.91386548
210.70	-47.2	-49.9	.11725	352.6	.00034872	2.91421419
207.20	-47.5	-51.0	.10495	353.8	.00039677	2.91461097
204.00	-48.2	-53.2	.08055	354.2	.00030284	2.91491380
200.80	-49.1	-54.2	.07217	354.4	.00024933	2.91516313
198.00	-49.8	-55.8	.05933	354.7	.00018786	2.91535099
195.00	-51.1	-57.5	.04787	354.2	.00016408	2.91551507
192.00	-51.7	-58.2	.04448	354.9	.00014134	2.91565640
189.00	-52.7	-59.3	.03914	354.9	.00012797	2.91578437
186.00	-53.3	-60.0	.03600	355.6	.00011499	2.91589937
183.00	-54.5	-60.2	.03561	355.3	.00010960	2.91600896
180.30	-55.3	-61.4	.03092	355.4	.00009164	2.91610061
177.60	-56.6	-61.8	.02970	354.9	.00008349	2.91618410
175.00	-57.4	-61.7	.03041	354.9	.00007974	2.91626383
172.50	-58.3	-62.1	.02918	354.9	.00007601	2.91633984
169.50	-59.0	-62.9	.02653	355.6	.00008528	2.91642512
166.50	-59.5	-64.0	.02318	356.6	.00007609	2.91650121
163.70	-60.5	-64.4	.02246	356.7	.00006519	2.91656640
161.00	-61.7	-64.7	.02175	356.3	.00006089	2.91662729
158.20	-62.5	-64.9	.02170	356.8	.00006206	2.91668935
155.50	-63.8	-65.1	.02144	356.4	.00005943	2.91674878
152.80	-64.3	-65.2	.02139	357.2	.00005899	2.91680777
150.20	-65.1	-65.6	.02050	357.5	.00005557	2.91686334
147.70	-66.6	-66.0	.01982	356.8	.00005142	2.91691476
145.20	-66.9	-66.8	.01785	358.0	.00004804	2.91696280
142.60	-67.2	-68.2	.01490	359.3	.00004344	2.91700624
140.20	-68.1	-69.3	.01288	359.5	.00003400	2.91704024
137.50	-70.0	-69.8	.01215	358.1	.00003447	2.91707471
135.00	-70.7	-70.4	.01130	358.8	.00002991	2.91710462
132.50	-71.4	-72.4	.00857	359.4	.00002535	2.91712996
130.00	-71.4	-72.9	.00811	361.4	.00002128	2.91715124
127.50	-71.8	-73.0	.00807	362.8	.00002062	2.91717187
125.00	-71.8	-74.4	.00670	364.8	.00001882	2.91719069
123.00	-71.8	-75.2	.00595	366.5	.00001289	2.91720358
120.70	-72.1	-76.4	.00505	367.8	.00001289	2.91721646
118.40	-72.8	-77.5	.00431	368.5	.00001097	2.91722743
116.30	-72.8	-77.9	.00413	370.4	.00000903	2.91723646
114.20	-72.8	-78.5	.00382	372.3	.00000851	2.91724497
112.30	-73.6	-79.5	.00330	372.7	.00000690	2.91725187

TRINIDAD,W.I. 3/26/64 1327Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
110.00	-73.6	-79.6	.00332	374.9	.00001530	2.91726717
108.00	-74.0	-79.9	.00321	376.2	.00000666	2.91727383
105.80	-74.4	-81.8	.00237	377.7	.00000626	2.91728009
103.70	-74.8	-84.6	.00151	379.1	.00000414	2.91728424
101.80	-74.8	-74.5	.00801	381.1	.00000922	2.91729346
100.00	-76.0	-80.7	.00302	380.6	.00001012	2.91730358
98.00	-76.9	-81.4	.00276	381.2	.00000589	2.91730946
96.00	-76.9	-81.7	.00266	383.4	.00000553	2.91731499
94.00	-76.9	-81.8	.00267	385.7	.00000544	2.91732043
92.00	-77.3	-82.5	.00243	387.2	.00000519	2.91732562
90.00	-77.3	-82.5	.00248	389.7	.00000501	2.91733062
88.00	-77.7	-82.8	.00244	391.3	.00000501	2.91733563
86.00	-77.7	-84.1	.00199	393.9	.00000452	2.91734014
84.00	-76.4	-86.7	.00131	399.2	.00000335	2.91734350
83.00	-75.6	-77.4	.00624	402.3	.00000384	2.91734734
82.00	-74.4	-83.9	.00217	406.2	.00000429	2.91735163
80.40	-73.6	-84.2	.00208	410.1	.00000347	2.91735511
78.50	-73.6	-85.3	.00178	412.9	.00000373	2.91735883
76.70	-72.5	-85.4	.00178	418.0	.00000326	2.91736209
74.80	-71.1	-85.5	.00178	424.0	.00000344	2.91736554
73.00	-70.4	-86.4	.00158	428.4	.00000308	2.91736862
71.00	-68.7	-86.9	.00147	435.3	.00000310	2.91737172
69.20	-68.7	-86.2	.00171	438.5	.00000291	2.91737463
67.50	-69.0	-86.7	.00162	440.9	.00000288	2.91737750
65.90	-69.4	-86.8	.00162	443.2	.00000264	2.91738014
64.30	-67.8	-87.4	.00150	449.8	.00000253	2.91738267
63.00	-65.4	-86.5	.00179	457.7	.00000218	2.91738485
61.30	-64.0	-86.5	.00183	464.4	.00000313	2.91738798
59.70	-62.5	-86.5	.00188	471.4	.00000302	2.91739100
58.10	-61.9	-86.5	.00194	476.2	.00000311	2.91739412
56.50	-62.2	-86.2	.00209	479.5	.00000328	2.91739739
54.90	-62.2	-86.8	.00195	483.4	.00000329	2.91740069
53.30	-62.2	-86.7	.00206	487.5	.00000326	2.91740395
51.80	-62.2	-86.8	.00206	491.5	.00000314	2.91740710
50.20	-62.5	-86.9	.00208	495.3	.00000337	2.91741046
48.60	-61.9	-87.1	.00209	501.2	.00000340	2.91741386
47.00	-61.2	-86.9	.00222	507.8	.00000350	2.91741736
45.50	-60.5	-87.4	.00212	514.3	.00000331	2.91742067
44.00	-59.5	-88.0	.00197	521.6	.00000311	2.91742378
42.30	-59.5	-88.0	.00204	527.5	.00000347	2.91742726
41.00	-59.0	-89.6	.00158	533.4	.00000240	2.91742966
39.70	-58.6	-88.3	.00206	539.5	.00000240	2.91743205
38.50	-57.7	-88.1	.00218	546.5	.00000259	2.91743465
37.40	-57.2	-88.0	.00231	552.2	.00000252	2.91743717
36.30	-56.8	-89.3	.00189	558.0	.00000235	2.91743952
35.30	-55.7	-89.1	.00201	565.3	.00000198	2.91744150
34.30	-55.1	-88.9	.00213	571.6	.00000210	2.91744360
33.30	-54.7	-89.9	.00183	577.6	.00000201	2.91744561
32.50	-54.5	-89.8	.00193	582.1	.00000152	2.91744713
31.70	-54.1	-89.8	.00198	587.4	.00000158	2.91744871
29.50	-54.1	-90.8	.00175	599.6	.00000417	2.91745289
28.80	-53.9	-90.1	.00204	604.2	.00000136	2.91745424
27.60	-53.7	-89.8	.00227	612.2	.00000264	2.91745688
26.60	-53.9	-90.5	.00208	618.1	.00000221	2.91745909
25.50	-53.9	-91.0	.00196	625.6	.00000225	2.91746134

TRINIDAD,W.I. 3/26/64 [illegible]

P (mb)	T (°C)	F (°C)	ν (g/kg)	θ (°K)	M (cm)	ΣM (cm)
24.40	-54.1	-90.5	.00226	633.0	.00000486	2.91746619
23.60	-54.1	-91.6	.00191	639.0	.00000170	2.91746789
22.60	-54.3	-91.6	.00199	646.4	.00000198	2.91746987
21.60	-54.5	-91.6	.00209	654.2	.00000207	2.91747195
20.80	-53.7	-92.1	.00194	663.7	.00000164	2.91747358
20.10	-50.6	-93.2	.00166	679.7	.00000128	2.91747487
19.30	-50.4	-92.0	.00217	688.2	.00000156	2.91747643
18.60	-50.0	-92.5	.00202	696.6	.00000149	2.91747792
17.80	-49.8	-91.8	.00244	706.0	.00000182	2.91747974
17.30	-49.7	-92.0	.00242	712.3	.00000124	2.91748098
16.80	-49.5	-91.8	.00259	718.9	.00000127	2.91748224
16.20	-49.1	-94.0	.00175	727.6	.00000133	2.91748357
15.70	-48.9	-93.8	.00189	734.7	.00000092	2.91748449
15.10	-48.8	-93.8	.00196	743.5	.00000118	2.91748567
14.60	-48.8	-93.8	.00203	750.7	.00000101	2.91748668
14.00	-48.4	-93.8	.00212	761.0	.00000127	2.91748795
13.50	-42.3	-93.8	.00220	789.9	.00000109	2.91748904
13.00	-40.9	-93.8	.00228	803.3	.00000113	2.91749017
12.50	-41.0	-93.8	.00237	811.8	.00000118	2.91749135
12.00	-41.3	-94.2	.00227	820.2	.00000118	2.91749252
11.50	-41.3	-94.0	.00247	830.3	.00000121	2.91749373
11.00	-41.3	-93.8	.00269	840.9	.00000131	2.91749504
10.60	-41.3	-93.6	.00291	849.8	.00000113	2.91749617
10.20	-41.3	-94.0	.00278	859.2	.00000116	2.91749734

TRINIDAD, W.I. 4/24/64 1605Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1014.30	20.8			292.8		
999.00	19.9			293.1	.00000000	.00000000
985.00	18.6			293.0	.00000000	.00000000
971.00	17.5			293.1	.00000000	.00000000
958.00	16.7			293.4	.00000000	.00000000
946.00	15.6			293.4	.00000000	.00000000
933.00	15.3			294.2	.00000000	.00000000
924.00	14.9			294.7	.00000000	.00000000
914.00	14.8			295.4	.00000000	.00000000
905.00	14.1			295.6	.00000000	.00000000
897.00	13.8			296.0	.00000000	.00000000
888.00	13.3			296.3	.00000000	.00000000
879.00	13.0			296.9	.00000000	.00000000
870.00	12.5			297.2	.00000000	.00000000
859.00	12.1			298.0	.00000000	.00000000
849.00	12.0	-4.8	3.00617	298.8	.01533751	.01533751
837.00	11.7	-5.8	2.79809	299.7	.03553613	.05087364
824.00	11.5	-6.3	2.72408	300.8	.03662650	.08750014
810.00	10.2	-6.8	2.66148	301.0	.03846811	.12596825
796.00	9.0	-8.1	2.40254	301.2	.03617136	.16213961
782.00	8.4			302.0	.00000000	.16213961
768.00	7.6			302.8	.00000000	.16213961
755.00	7.3			303.9	.00000000	.16213961
741.00	6.9			305.1	.00000000	.16213961
727.50	6.1			305.9	.00000000	.16213961
714.00	5.4			306.7	.00000000	.16213961
700.00	4.5			307.5	.00000000	.16213961
686.50	3.8	-8.6	2.68010	308.4	.01845977	.18059938
673.30	3.1	-9.0	2.63390	309.3	.03578798	.21638736
658.00	2.4			310.5	.00000000	.21638736
645.00	1.7			311.5	.00000000	.21638736
632.50	1.1			312.6	.00000000	.21638736
620.00	.6			313.8	.00000000	.21638736
608.50	.3			315.1	.00000000	.21638736
596.50	-.1	-21.5	.93162	316.5	.00570378	.22209114
584.20	-1.4	-23.4	.78935	316.9	.01079991	.23289105
572.00	-2.2	-21.5	.97159	317.9	.01096088	.24385193
560.00	-3.4	-19.2	1.24451	318.4	.01356788	.25741981
548.50	-4.6	-15.0	1.88386	318.9	.01835513	.27577494
537.50	-5.6	-17.2	1.56721	319.5	.01936817	.29514311
526.00	-6.9	-16.6	1.69491	319.9	.01913992	.31428303
515.00	-8.0	-18.6	1.42659	320.5	.01751854	.33180156
504.00	-9.2	-20.7	1.18690	321.1	.01466744	.34646900
492.40	-10.4	-21.7	1.10268	321.7	.01355046	.36001946
480.60	-11.8	-19.7	1.37626	322.2	.01492412	.37494358
469.00	-13.2	-20.2	1.34067	322.8	.01607969	.39102328
457.00	-14.5	-20.7	1.30922	323.5	.01622373	.40724701
445.70	-15.4	-24.1	.96875	324.7	.01313312	.42038013
434.00	-15.5	-32.9	.40165	327.1	.00818042	.42856055
423.00	-16.8	-34.5	.34538	327.7	.00419250	.43275306
413.00	-18.3	-38.2	.23722	328.1	.00297241	.43572547
403.00	-19.4	-38.4	.23644	329.0	.00241658	.43814205
393.30	-21.0	-38.4	.24227	329.2	.00236909	.44051114
383.60	-22.4	-38.7	.24160	329.7	.00239465	.44290578
373.80	-23.3	-39.4	.22831	331.0	.00234953	.44525531
364.00	-24.3	-40.2	.21344	332.2	.00220874	.44746405

TRINIDAD,W.I. 4/24/64 1605Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
355.50	-25.0	-41.0	.19937	333.5	.00179024	.44925429
346.40	-26.3	-33.4	.47916	334.2	.00315031	.45240460
337.40	-28.3	-32.4	.54316	334.0	.00469430	.45709890
328.30	-30.0	-31.3	.62870	334.2	.00544074	.46253964
319.30	-31.8	-31.5	.63524	334.4	.00580378	.46834342
310.20	-33.7	-32.4	.59083	334.5	.00569242	.47403584
301.20	-34.8	-54.3	.04707	335.9	.00292912	.47696497
293.80	-35.0	-57.8	.03066	337.9	.00029346	.47725843
284.50	-36.5	-57.1	.03456	339.0	.00030944	.47756787
277.00	-38.2	-59.2	.02704	339.1	.00023569	.47780356
269.00	-39.7	-60.5	.02340	339.7	.00020586	.47800942
261.00	-41.4	-62.6	.01807	340.2	.00016928	.47817869
253.00	-42.8	-64.7	.01396	341.2	.00013076	.47830945
245.90	-44.5	-62.2	.02013	341.3	.00012349	.47843294
238.70	-46.3	-62.0	.02155	341.5	.00015309	.47858603
231.50	-48.1	-62.2	.02138	341.9	.00015768	.47874372
224.30	-49.8	-63.9	.01752	342.3	.00014289	.47888660
216.70	-51.8	-55.0	.06039	342.6	.00030211	.47918871
209.80	-53.6	-53.8	.07251	343.0	.00046785	.47965656
202.50	-55.2	-56.4	.05356	343.9	.00046954	.48012610
195.60	-56.9	-58.5	.04179	344.6	.00033563	.48046173
188.00	-58.5	-62.9	.02392	346.0	.00025475	.48071648
182.10	-60.2	-65.7	.01677	346.5	.00012246	.48083894
175.70	-61.9	-68.1	.01218	347.2	.00009452	.48093346
169.20	-63.3	-66.2	.01669	348.7	.00009574	.48102920
163.10	-65.2	-66.7	.01616	349.1	.00010224	.48113143
157.60	-67.0	-67.7	.01441	349.5	.00008579	.48121722
151.50	-68.9	-69.0	.01252	350.3	.00008380	.48130102
146.50	-70.6	-70.0	.01110	350.7	.00006025	.48136127
141.50	-71.8	-71.4	.00933	352.0	.00005212	.48141339
136.40	-73.4	-73.4	.00708	352.9	.00004269	.48145609
131.40	-74.4	-77.5	.00392	354.9	.00002803	.48148412
125.00	-76.2	-77.1	.00438	356.8	.00002708	.48151119
118.20	-78.5	-76.4	.00516	358.3	.00003308	.48154427
110.80	-80.6	-79.2	.00351	361.0	.00003272	.48157699
103.50	-80.2	-80.8	.00287	368.9	.00002375	.48160075
97.00	-80.6	-81.3	.00281	375.0	.00001884	.48161958

TRINIDAD,W.I. 5/22/64 1325Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
938.00	21.3	16.0	12.28880	299.9		
931.00	20.7	14.8	11.44905	299.9	.08477768	.08477768
921.00	20.2	16.0	12.52019	300.3	.12229156	.20706925
911.00	19.7	16.0	12.66042	300.7	.12847202	.33554126
902.00	18.8	17.2	13.83790	300.7	.12167549	.45721675
893.00	18.6	16.0	12.92092	301.4	.12287164	.58008839
889.00	18.3	16.0	12.98027	301.4	.05285935	.63294774
882.00	18.6	17.2	14.15883	302.4	.09692495	.72987269
875.00	18.5	17.2	14.27470	303.0	.10154790	.83142059
869.00	18.3	17.2	14.37554	303.4	.08770443	.91912502
864.00	18.1	17.2	14.46066	303.7	.07356143	.99268645
858.00	17.6	17.2	14.56415	303.8	.08885111	1.08153756
853.00	17.4	17.2	14.65153	304.1	.07452951	1.15606707
847.00	17.1	16.0	13.63803	304.4	.08660036	1.24266744
841.00	16.3	16.0	13.73748	304.1	.08380224	1.32646967
835.20	15.5	16.0	13.83500	303.8	.08159171	1.40806139
829.50	14.8	14.8	12.87900	303.8	.07768835	1.48574974
824.00	15.8	14.8	12.96676	305.4	.07252605	1.55827579
817.00	15.5	13.7	12.13158	305.8	.08963655	1.64791234
811.00	15.0	13.7	12.22310	305.9	.07455483	1.72246717
805.00	14.3	12.6	11.48308	305.8	.07256962	1.79503679
799.00	13.8	12.6	11.57091	306.0	.07057315	1.86560994
794.00	13.0	9.7	9.53394	305.7	.05383869	1.91944863
788.00	12.6	8.7	9.02254	305.9	.05680530	1.97625393
781.00	12.3	11.6	11.04088	306.3	.07165478	2.04790871
775.00	12.1	9.7	9.77134	306.8	.06371064	2.11161935
769.00	11.5	8.7	9.24878	306.8	.05822462	2.16984397
764.00	11.6	9.7	9.91427	307.6	.04888512	2.21872909
755.00	11.9	7.9	8.88403	308.9	.08631839	2.30504748
749.00	11.9	7.0	8.44057	309.6	.05303426	2.35808174
740.00	10.9	7.0	8.54463	309.5	.07799295	2.43607469
731.00	10.7	4.7	7.32868	310.4	.07288738	2.50896206
723.00	10.5	7.9	9.28311	311.3	.06780294	2.57676500
715.00	10.4	7.9	9.38854	312.1	.07621048	2.65297548
707.00	10.4	7.0	8.94920	313.1	.07484762	2.72782311
700.00	10.2	-4.0	3.92372	313.8	.04597454	2.77379765
693.00	9.9	-6.4	3.21510	314.4	.02549568	2.79929332
684.00	10.2	-11.7	2.03390	315.9	.02410245	2.82339577
680.00	9.5	-12.8	1.85681	315.6	.00794020	2.83133598
675.00	9.2	-10.2	2.36169	315.9	.01076145	2.84209743
669.00	8.9	-10.2	2.38296	316.4	.01452437	2.85662180
665.00	8.1	-9.4	2.57140	316.1	.01011088	2.86673269
661.00	7.7	-7.3	3.11681	316.1	.01160854	2.87834123
655.00	7.4	-6.4	3.40264	316.6	.01995744	2.89829867
653.00	6.8	-6.4	3.41312	316.2	.00695483	2.90525350
649.00	6.4	-6.4	3.43427	316.3	.01397422	2.91922772
646.00	5.8	-4.5	4.06951	316.1	.01148532	2.93071304
643.00	4.9	-2.9	4.67095	315.5	.01337819	2.94409123
639.00	4.5	-3.4	4.49861	315.6	.01871331	2.96280454
633.00	3.7	-3.4	4.54156	315.5	.02767389	2.99047843
627.00	3.2	-2.4	5.02147	315.8	.02927448	3.01975290
621.00	3.0	-1.2	5.57194	316.4	.03242867	3.05218157
615.00	2.3	-1.8	5.36083	316.5	.03346750	3.08564907
609.00	2.0	-1.8	5.41411	317.0	.03298436	3.11863343
603.00	1.6	-1.8	5.46845	317.4	.03331381	3.15194725
597.00	1.0	-2.4	5.27595	317.7	.03289087	3.18483812

TRINIDAD, W.I. 5/22/64 1325Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
592.00	.7	-2.9	5.07663	318.2	.02640952	3.21124764
586.00	.6	-3.4	4.90869	318.9	.03056718	3.24181482
581.00	.2	-5.5	4.16293	319.2	.02314179	3.26495661
575.00	-.2	-5.0	4.38960	319.7	.02618110	3.29113771
569.00	-.5	-7.3	3.62370	320.3	.02453041	3.31566812
565.00	-.9	-8.6	3.25678	320.5	.01404174	3.32970986
558.00	-1.7	-7.3	3.69556	320.7	.02482967	3.35453953
553.00	-2.1	-7.3	3.72917	321.1	.01894055	3.37348008
547.00	-2.6	-8.2	3.49418	321.4	.02211221	3.39559229
542.00	-3.1	-9.4	3.15791	321.7	.01696955	3.41256183
536.40	-3.5	-11.0	2.77414	322.1	.01694864	3.42951047
530.10	-3.9	-12.8	2.38389	322.8	.01657932	3.44608979
524.50	-4.4	-15.4	1.89463	323.1	.01222429	3.45831408
518.50	-4.7	-13.1	2.36335	323.9	.01303458	3.47134866
513.00	-5.0	-13.1	2.38879	324.5	.01333503	3.48468369
507.00	-5.5	-17.2	1.65853	325.0	.01238969	3.49707338
501.80	-5.9	-18.8	1.43204	325.5	.00819942	3.50527281
496.40	-6.3	-23.8	.89104	326.0	.00640029	3.51167309
491.00	-6.6	-26.8	.66619	326.6	.00429031	3.51596341
486.00	-7.0	-29.7	.50295	327.1	.00298248	3.51894589
481.00	-7.3	-31.9	.40221	327.7	.00230907	3.52125496
476.20	-7.7	-44.4	.10065	328.2	.00123151	3.52248646
471.70	-8.2	-42.7	.12369	328.4	.00051507	3.52300154
467.20	-8.6	-43.7	.11113	328.9	.00053912	3.52354066
462.60	-8.9	-44.6	.10130	329.3	.00049856	3.52403922
458.20	-9.4	-48.5	.06419	329.6	.00037150	3.52441072
454.00	-9.9	-49.8	.05549	329.8	.00025645	3.52466717
450.00	-10.7	-48.8	.06334	329.7	.00024252	3.52490969
444.00	-11.2	-44.9	.10204	330.3	.00050625	3.52541594
439.00	-12.0	-47.0	.08018	330.5	.00046483	3.52588077
433.70	-12.3	-42.8	.13293	331.1	.00057626	3.52645703
428.30	-12.7	-45.2	.10228	331.8	.00064801	3.52710503
423.10	-13.2	-50.7	.05274	332.4	.00041126	3.52751629
418.00	-13.8	-53.7	.03673	332.7	.00023280	3.52774909
413.00	-14.5	-43.6	.12720	333.0	.00041819	3.52816728
408.20	-15.1	-40.7	.17988	333.4	.00075202	3.52891929
403.40	-15.7	-41.4	.16910	333.7	.00085461	3.52977391
399.00	-16.3	-42.6	.14800	333.9	.00071186	3.53048576
394.50	-17.0	-43.5	.13468	334.2	.00064902	3.53113478
390.00	-17.5	-43.0	.14441	334.6	.00064076	3.53177555
385.80	-17.8	-42.7	.15124	335.2	.00063352	3.53240907
381.70	-18.3	-44.6	.12278	335.5	.00057319	3.53298226
377.50	-18.7	-45.1	.11736	336.1	.00051458	3.53349684
375.00	-19.6	-43.4	.14337	335.6	.00033256	3.53382941
370.50	-20.5	-42.1	.16918	335.6	.00071757	3.53454697
366.00	-21.1	-42.0	.17328	335.9	.00078623	3.53533320
361.20	-22.0	-42.3	.16937	336.0	.00083911	3.53617232
356.70	-22.6	-41.9	.17999	336.4	.00080207	3.53697439
352.00	-23.4	-41.9	.18239	336.6	.00086895	3.53784333
347.40	-24.3	-40.7	.21137	336.7	.00092411	3.53876744
343.00	-25.0	-43.8	.14962	336.9	.00081037	3.53957781
338.30	-25.8	-43.8	.15170	337.2	.00072254	3.54030035
334.00	-26.6	-43.3	.16281	337.3	.00068998	3.54099034
329.40	-27.5	-43.0	.17099	337.4	.00078338	3.54177372
325.00	-28.4	-42.6	.18171	337.5	.00079177	3.54256549

TRINIDAD,W.I. 5/22/64 1325Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
321.00	-28.9	-44.0	.15627	338.0	.00068976	3.54325525
316.60	-29.6	-45.6	.13238	338.4	.00064798	3.54390323
312.00	-30.2	-47.2	.11044	338.9	.00056987	3.54447310
307.30	-31.0	-48.8	.09276	339.2	.00048727	3.54496036
302.60	-31.8	-49.1	.09039	339.6	.00043918	3.54539955
298.00	-32.8	-50.0	.08200	339.7	.00040460	3.54580414
293.50	-33.6	-47.8	.10900	340.1	.00043851	3.54624265
289.00	-34.1	-46.1	.13574	340.8	.00056188	3.54680453
284.90	-35.0	-47.0	.12356	341.0	.00054239	3.54734692
280.80	-35.5	-48.8	.10045	341.6	.00046858	3.54781550
276.90	-36.4	-48.7	.10404	341.7	.00040689	3.54822239
273.10	-37.1	-48.7	.10549	342.1	.00040621	3.54862860
269.70	-38.1	-48.8	.10570	341.8	.00036633	3.54899493
266.30	-38.8	-48.8	.10592	342.0	.00036709	3.54936202
263.00	-39.6	-48.5	.11183	342.1	.00036663	3.54972865
260.00	-40.3	-50.3	.09027	342.2	.00030933	3.55003798
255.10	-41.1	-53.1	.06505	342.9	.00038828	3.55042626
251.60	-41.7	-52.3	.07342	343.4	.00024725	3.55067351
248.00	-42.6	-50.7	.09087	343.4	.00030176	3.55097528
244.30	-43.6	-50.6	.09320	343.4	.00034748	3.55132276
240.20	-44.5	-51.4	.08576	343.7	.00037435	3.55169711
236.30	-45.3	-51.5	.08547	344.1	.00034070	3.55203781
232.50	-46.2	-51.6	.08599	344.4	.00033242	3.55237022
228.70	-47.2	-51.8	.08571	344.5	.00033289	3.55270311
224.50	-48.0	-52.1	.08392	345.0	.00036348	3.55306660
221.30	-49.1	-51.9	.08686	344.8	.00027880	3.55334540
218.40	-49.8	-52.8	.07899	345.0	.00024536	3.55359076
215.80	-50.9	-53.3	.07468	344.5	.00020383	3.55379459
212.50	-51.5	-54.4	.06624	345.1	.00023726	3.55403185
208.60	-52.0	-54.5	.06685	346.1	.00026482	3.55429667
205.00	-52.8	-55.3	.06123	346.6	.00023526	3.55453193
201.50	-53.4	-56.7	.05205	347.4	.00020228	3.55473422
198.50	-54.0	-57.4	.04764	347.9	.00015259	3.55488680
195.50	-55.0	-59.3	.03759	347.8	.00013044	3.55501725
192.50	-55.6	-59.2	.03889	348.3	.00011705	3.55513430
189.60	-56.4	-60.4	.03343	348.5	.00010699	3.55524129
186.70	-57.3	-61.1	.03096	348.6	.00009526	3.55533655
183.70	-58.0	-61.3	.03061	349.2	.00009423	3.55543078
180.80	-59.1	-63.0	.02466	348.9	.00008178	3.55551256
177.90	-59.8	-63.5	.02326	349.4	.00007090	3.55558346
175.00	-60.5	-64.8	.01977	349.9	.00006367	3.55564713
172.20	-61.7	-65.3	.01881	349.5	.00005510	3.55570224
169.20	-62.8	-66.9	.01521	349.5	.00005206	3.55575430
166.20	-63.8	-65.7	.01823	349.6	.00005117	3.55580547
163.20	-64.9	-68.8	.01185	349.6	.00004604	3.55585152
160.40	-65.4	-68.8	.01218	350.4	.00003433	3.55588585
157.40	-66.6	-68.8	.01241	350.4	.00003764	3.55592349
154.50	-67.5	-69.0	.01215	350.7	.00003634	3.55595984
151.60	-68.1	-69.2	.01202	351.6	.00003575	3.55599558
148.70	-69.0	-69.4	.01188	351.9	.00003535	3.55603093
145.80	-68.7	-69.5	.01200	354.4	.00003533	3.55606626
142.80	-70.3	-69.6	.01213	353.7	.00003691	3.55610317
139.80	-71.3	-69.8	.01201	354.1	.00003694	3.55614011
137.00	-72.4	-70.2	.01153	354.3	.00003362	3.55617373
134.20	-73.5	-71.1	.01029	354.4	.00003116	3.55620489

TRINIDAD,W.I. 5/22/64 1325Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
131.50	-74.3	-72.2	.00886	355.1	.00002636	3.55623125
128.70	-74.6	-73.0	.00803	356.6	.00002411	3.55625536
126.00	-75.1	-73.7	.00734	358.0	.00002116	3.55627652
123.70	-75.5	-74.7	.00645	359.2	.00001617	3.55629268
121.30	-77.1	-75.8	.00551	358.1	.00001463	3.55630732
119.00	-78.5	-77.3	.00445	357.6	.00001168	3.55631900
116.70	-77.6	-76.0	.00553	361.3	.00001170	3.55633070
114.40	-76.3	-76.3	.00544	365.8	.00001286	3.55634356
112.20	-75.5	-78.4	.00394	369.3	.00001052	3.55635408
110.20	-75.1	-78.9	.00371	372.0	.00000779	3.55636187
108.30	-75.9	-77.0	.00514	372.3	.00000857	3.55637044
106.00	-75.9	-78.6	.00406	374.6	.00001079	3.55638123
103.80	-75.5	-79.4	.00363	377.6	.00000863	3.55638985
101.60	-75.5	-79.5	.00366	380.0	.00000817	3.55639802
99.40	-75.5	-80.1	.00334	382.3	.00000785	3.55640587
97.20	-75.1	-80.5	.00323	385.6	.00000738	3.55641325
95.00	-75.1	-80.4	.00335	388.1	.00000738	3.55642062
92.80	-77.1	-80.6	.00334	386.6	.00000750	3.55642812
90.70	-75.5	-81.7	.00282	392.5	.00000659	3.55643471
88.50	-75.1	-82.3	.00263	396.1	.00000611	3.55644082
86.30	-74.6	-83.7	.00212	399.7	.00000533	3.55644615
84.20	-73.5	-84.3	.00197	404.9	.00000438	3.55645053
82.10	-72.0	-85.0	.00179	410.8	.00000401	3.55645454
79.80	-71.0	-85.9	.00156	416.3	.00000392	3.55645846
77.60	-70.0	-86.4	.00149	421.7	.00000341	3.55646187
75.30	-68.4	-86.1	.00159	428.7	.00000361	3.55646548
73.70	-67.8	-86.7	.00148	432.7	.00000250	3.55646798
71.70	-67.2	-87.4	.00135	437.4	.00000288	3.55647086
70.00	-66.9	-87.7	.00130	441.0	.00000229	3.55647315
68.20	-66.6	-89.1	.00103	444.9	.00000213	3.55647528
66.40	-66.3	-88.6	.00116	449.0	.00000201	3.55647729
64.70	-65.4	-88.5	.00122	454.2	.00000206	3.55647935
63.00	-64.1	-88.8	.00120	460.7	.00000209	3.55648144
61.30	-63.0	-90.1	.00096	466.6	.00000186	3.55648330
59.50	-62.2	-93.9	.00049	472.3	.00000133	3.55648462
57.80	-62.2	-96.0	.00033	476.3	.00000072	3.55648534
56.20	-62.2	-96.8	.00030	480.1	.00000051	3.55648585
54.50	-62.0	-95.7	.00038	484.9	.00000058	3.55648643
52.90	-61.7	-90.5	.00103	489.6	.00000115	3.55648758
51.30	-61.2	-89.1	.00137	495.1	.00000195	3.55648953
49.70	-60.8	-92.8	.00072	500.8	.00000170	3.55649123
48.00	-60.3	-94.2	.00057	506.9	.00000112	3.55649234
46.50	-59.6	-93.7	.00065	513.2	.00000092	3.55649327
44.80	-59.1	-93.2	.00074	519.8	.00000119	3.55649446
43.30	-58.4	-92.3	.00090	526.6	.00000125	3.55649571
41.80	-55.8	-91.5	.00110	538.4	.00000152	3.55649723
40.40	-55.8	-90.9	.00125	543.6	.00000167	3.55649890
38.70	-55.4	-90.5	.00141	551.4	.00000231	3.55650121
37.70	-55.2	-90.4	.00148	556.1	.00000148	3.55650268
36.70	-54.8	-90.3	.00156	561.4	.00000155	3.55650423
35.60	-53.6	-89.9	.00173	569.5	.00000183	3.55650607
34.50	-52.4	-89.5	.00191	577.7	.00000203	3.55650809
33.50	-51.3	-89.1	.00210	585.5	.00000204	3.55651014
32.30	-50.3	-89.1	.00218	594.1	.00000262	3.55651276
31.20	-49.4	-89.0	.00231	602.5	.00000252	3.55651528

TRINIDAD,W.I. 5/22/64 1325Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
29.80	-48.6	-88.8	.00253	612.9	.00000344	3.55651872
28.50	-47.9	-88.8	.00264	622.6	.00000343	3.55652215
27.30	-48.4	-88.8	.00276	628.9	.00000331	3.55652545
26.00	-47.7	-88.9	.00283	639.7	.00000370	3.55652915
24.80	-47.2	-89.1	.00284	649.9	.00000347	3.55653262
23.70	-46.3	-89.1	.00297	660.8	.00000326	3.55653588
22.70	-45.8	-89.3	.00304	670.5	.00000305	3.55653894
21.80	-45.0	-89.4	.00309	680.7	.00000280	3.55654174
21.00	-44.5	-89.4	.00321	689.5	.00000256	3.55654430
20.20	-45.2	-89.4	.00334	695.2	.00000267	3.55654697
19.70	-44.8	-89.5	.00334	701.2	.00000170	3.55654867
19.10	-45.2	-89.6	.00337	706.4	.00000204	3.55655071
18.50	-44.8	-89.8	.00340	713.9	.00000207	3.55655278
18.00	-44.5	-90.1	.00326	720.5	.00000168	3.55655447
17.50	-44.2	-90.4	.00319	727.4	.00000164	3.55655611
17.00	-44.0	-90.9	.00298	733.9	.00000156	3.55655767
16.50	-43.6	-91.6	.00270	741.8	.00000145	3.55655912
16.00	-43.2	-92.0	.00258	749.4	.00000134	3.55656046
15.50	-43.1	-92.5	.00245	756.7	.00000128	3.55656174
15.10	-42.9	-93.1	.00225	762.9	.00000095	3.55656269
14.70	-42.8	-93.5	.00212	769.3	.00000088	3.55656357
14.40	-42.6	-94.5	.00180	774.4	.00000060	3.55656417

TRINIDAD,W.I. 6/20/64 1830Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
322.50	-28.8	-25.2	1.19380	337.7		
317.50	-29.6	-25.9	1.12864	338.0	.00592457	.00592457
312.60	-30.7	-26.5	1.08717	338.1	.00553951	.01146407
308.70	-31.6	-27.5	.99272	338.0	.00413853	.01560260
304.40	-32.2	-28.9	.86784	338.5	.00408182	.01968442
300.60	-32.7	-30.0	.78646	338.9	.00320731	.02289173
296.60	-33.1	-29.9	.80940	339.7	.00325684	.02614857
292.80	-33.6	-30.6	.75876	340.2	.00304028	.02918886
288.60	-34.2	-31.2	.72459	340.8	.00317858	.03236744
285.00	-35.4	-31.5	.71218	340.4	.00263894	.03500637
281.80	-36.7	-32.7	.63107	339.5	.00219303	.03719941
278.40	-37.3	-33.4	.59487	339.9	.00212660	.03932601
275.00	-37.8	-33.9	.56956	340.3	.00201991	.04134592
271.00	-38.4	-34.8	.52515	340.9	.00223409	.04358001
267.10	-39.1	-36.8	.42608	341.3	.00189275	.04547276
263.50	-39.6	-38.1	.37601	341.8	.00147322	.04694597
260.00	-40.3	-38.8	.34978	342.1	.00129603	.04824200
255.80	-41.2	-41.7	.25609	342.4	.00129828	.04954028
252.00	-42.1	-43.1	.22240	342.6	.00092767	.05046795
248.00	-43.1	-44.5	.19209	342.6	.00084588	.05131383
244.50	-43.7	-45.5	.17339	343.1	.00065263	.05196646
241.00	-44.6	-46.2	.16020	343.2	.00059570	.05256216
237.90	-45.4	-46.2	.16229	343.3	.00051005	.05307221
234.00	-46.3	-46.4	.16157	343.5	.00064440	.05371661
230.70	-47.0	-50.0	.10550	343.9	.00044964	.05416626
227.00	-48.1	-52.7	.07658	343.8	.00034371	.05450997
223.50	-48.7	-53.9	.06686	344.3	.00025614	.05476610
220.00	-49.4	-54.3	.06481	344.9	.00023511	.05500121
215.60	-49.9	-54.6	.06370	346.1	.00028849	.05528970
211.30	-52.0	-55.2	.05976	344.8	.00027086	.05556056
207.50	-53.6	-55.5	.05917	344.1	.00023058	.05579114
202.00	-53.3	-56.1	.05588	347.3	.00032286	.05611400
199.80	-54.4	-56.9	.05102	346.6	.00011998	.05623399
196.00	-56.9	-57.6	.04702	344.5	.00019006	.05642405
192.50	-57.3	-58.5	.04248	345.6	.00015981	.05658387
188.50	-57.9	-60.0	.03543	346.7	.00015900	.05674286
185.50	-59.2	-60.9	.03191	346.3	.00010307	.05684593
182.00	-60.0	-61.8	.02883	346.8	.00010845	.05695438
179.00	-61.2	-62.3	.02744	346.6	.00008611	.05704050
175.80	-62.5	-62.6	.02666	346.1	.00008830	.05712880
172.70	-63.7	-62.9	.02613	345.9	.00008349	.05721229
169.30	-64.2	-63.6	.02425	347.0	.00008738	.05729967
166.20	-64.7	-64.8	.02078	348.0	.00007121	.05737089
162.50	-66.0	-65.8	.01855	348.1	.00007422	.05744511
159.80	-66.6	-66.6	.01675	348.9	.00004861	.05749372
156.60	-67.4	-67.2	.01562	349.5	.00005284	.05754656
154.00	-68.5	-68.0	.01420	349.3	.00003955	.05758610
151.00	-69.4	-69.8	.01116	349.7	.00003882	.05762492
148.30	-70.3	-70.9	.00956	350.0	.00002852	.05765344
145.50	-71.5	-72.3	.00787	349.7	.00002488	.05767833
143.00	-71.9	-72.9	.00739	350.9	.00001946	.05769779
140.00	-72.5	-73.3	.00704	351.9	.00002207	.05771986
137.50	-73.2	-73.7	.00675	352.5	.00001758	.05773744
134.60	-73.5	-74.4	.00618	354.0	.00001913	.05775657
132.00	-73.9	-75.2	.00557	355.4	.00001559	.05777216
129.00	-75.0	-75.9	.00508	355.8	.00001630	.05778846

TRINIDAD, W.I. 6/20/64 1830Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
126.50	-75.3	-76.3	.00492	357.1	.00001276	.05780122
124.00	-75.7	-76.3	.00496	358.5	.00001259	.05781381
121.50	-75.3	-76.5	.00493	361.3	.00001261	.05782641
119.00	-74.2	-76.5	.00503	365.4	.00001270	.05783911
116.80	-75.0	-76.6	.00506	366.1	.00001131	.05785042
114.30	-74.6	-76.9	.00490	369.0	.00001270	.05786312
112.00	-74.2	-77.4	.00461	371.8	.00001115	.05787426
109.50	-73.9	-78.5	.00399	374.9	.00001095	.05788521
107.20	-73.5	-79.5	.00347	377.8	.00000873	.05789395
104.50	-73.5	-79.7	.00340	380.6	.00000945	.05790339
102.20	-74.6	-80.3	.00317	381.0	.00000770	.05791110
99.80	-76.1	-80.7	.00305	380.7	.00000761	.05791871
97.80	-77.7	-81.3	.00283	379.9	.00000599	.05792470
95.30	-76.5	-81.7	.00267	385.0	.00000700	.05793171
93.50	-75.3	-81.9	.00264	389.3	.00000487	.05793658
91.20	-73.9	-82.2	.00257	395.0	.00000609	.05794267
89.20	-72.2	-82.4	.00258	400.9	.00000525	.05794792
87.00	-70.3	-82.4	.00260	407.6	.00000581	.05795373
85.00	-69.1	-82.7	.00257	412.7	.00000528	.05795901
82.80	-67.4	-82.8	.00259	419.3	.00000580	.05796480
81.00	-66.3	-82.9	.00261	424.2	.00000477	.05796957
78.90	-64.7	-83.3	.00249	430.6	.00000545	.05797502
77.00	-63.7	-84.1	.00220	435.7	.00000454	.05797957
75.00	-63.7	-84.8	.00202	439.0	.00000431	.05798388
73.30	-64.2	-85.0	.00198	440.8	.00000346	.05798733
71.30	-65.0	-85.7	.00181	442.7	.00000386	.05799119
69.70	-65.8	-85.7	.00185	443.9	.00000298	.05799417
67.80	-65.5	-85.3	.00206	448.0	.00000378	.05799796
66.20	-64.7	-84.7	.00233	452.7	.00000358	.05800153
64.30	-64.5	-84.4	.00254	457.1	.00000471	.05800624
62.70	-64.2	-84.6	.00251	460.9	.00000411	.05801035
60.80	-63.7	-84.9	.00244	466.1	.00000478	.05801514
59.20	-63.0	-85.1	.00241	471.3	.00000395	.05801909
57.00	-62.3	-85.6	.00231	478.0	.00000529	.05802438
55.30	-61.8	-85.4	.00248	483.2	.00000414	.05802852
53.50	-61.2	-85.3	.00261	489.4	.00000466	.05803318
51.80	-60.9	-85.6	.00254	494.5	.00000446	.05803764
50.20	-60.9	-85.8	.00251	498.9	.00000411	.05804175
48.80	-60.9	-86.0	.00254	503.0	.00000361	.05804536
47.30	-60.7	-85.8	.00267	508.0	.00000398	.05804934
46.10	-59.6	-85.8	.00274	514.4	.00000331	.05805264
44.50	-58.5	-85.7	.00290	522.2	.00000459	.05805723
43.30	-57.7	-85.7	.00298	528.3	.00000359	.05806082
41.90	-56.9	-85.8	.00301	535.3	.00000428	.05806510
40.70	-55.9	-86.3	.00285	542.3	.00000359	.05806869
39.40	-54.9	-86.4	.00288	549.8	.00000380	.05807249
38.30	-54.7	-86.6	.00291	554.7	.00000325	.05807574
37.00	-54.2	-86.7	.00294	561.7	.00000387	.05807962
36.00	-53.8	-87.3	.00271	567.0	.00000288	.05808249
34.90	-53.4	-87.6	.00267	573.1	.00000301	.05808550
33.80	-53.1	-87.7	.00269	579.3	.00000301	.05808851
32.80	-53.6	-88.2	.00253	582.8	.00000265	.05809116
31.80	-52.9	-88.8	.00237	590.0	.00000249	.05809365
30.70	-52.2	-89.2	.00228	597.9	.00000259	.05809624
29.70	-51.8	-88.9	.00247	604.5	.00000241	.05809866

TRINIDAD,W.I. 6/20/64 1830Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
28.80	-51.5	-89.9	.00213	610.8	.00000210	.05810076
27.80	-50.8	-89.9	.00221	619.0	.00000221	.05810297
26.70	-50.4	-89.6	.00242	627.1	.00000259	.05810556
25.80	-49.9	-89.7	.00244	634.7	.00000224	.05810779
24.70	-49.6	-90.0	.00242	643.7	.00000273	.05811052
23.80	-48.7	-90.2	.00245	653.0	.00000222	.05811274
22.70	-48.1	-91.2	.00211	663.8	.00000255	.05811529
21.80	-47.3	-91.5	.00208	673.9	.00000192	.05811721
20.70	-46.8	-91.9	.00206	685.4	.00000231	.05811952
19.95	-46.2	-91.5	.00227	694.6	.00000165	.05812117
19.20	-45.2	-91.4	.00243	705.2	.00000179	.05812296
18.60	-44.8	-91.5	.00243	713.0	.00000148	.05812444
17.90	-42.2	-91.9	.00238	728.9	.00000171	.05812615
17.40	-42.2	-92.4	.00224	734.9	.00000118	.05812733
16.80	-41.9	-92.2	.00239	743.2	.00000142	.05812874
16.20	-41.8	-94.7	.00155	751.4	.00000119	.05812994
15.60	-41.6	-92.0	.00265	760.1	.00000128	.05813122
15.20	-41.3	-91.7	.00289	766.7	.00000112	.05813234
14.70	-41.1	-91.5	.00308	775.0	.00000152	.05813386
14.20	-40.9	-92.7	.00257	783.2	.00000143	.05813529
13.80	-40.8	-92.9	.00256	790.1	.00000104	.05813633

TRINIDAD,W.I. 7/15/64 1440Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
450.80	-12.1	-17.5	1.80932	327.7		
445.30	-12.9	-17.5	1.83174	327.9	.01021722	.01021722
440.00	-13.4	-17.1	1.92073	328.4	.01014693	.02036415
434.20	-14.0	-18.6	1.69574	328.9	.01070175	.03106590
429.00	-14.5	-18.9	1.66176	329.4	.00890760	.03997350
423.60	-15.2	-22.7	1.16548	329.7	.00778930	.04776280
418.30	-15.6	-22.7	1.18028	330.4	.00634311	.05410591
413.20	-16.2	-24.4	1.01148	330.8	.00570300	.05980891
408.10	-16.9	-20.9	1.44350	331.0	.00638793	.06619684
403.20	-17.8	-22.7	1.22457	331.0	.00667015	.07286699
398.60	-18.3	-24.7	1.02052	331.4	.00526907	.07813606
394.00	-19.0	-26.9	.82136	331.7	.00432277	.08245882
389.40	-19.5	-25.5	.96664	332.2	.00419630	.08665513
385.00	-20.0	-27.2	.82000	332.6	.00401080	.09066592
380.90	-20.5	-34.3	.39426	332.9	.00254002	.09320594
376.90	-21.0	-29.5	.66400	333.3	.00215971	.09536566
373.00	-21.5	-31.3	.55279	333.6	.00242116	.09778681
369.50	-21.9	-48.8	.07714	334.0	.00112487	.09891169
365.20	-22.3	-49.7	.06926	334.6	.00032118	.09923287
360.40	-22.5	-48.4	.08301	335.5	.00037290	.09960577
355.60	-23.4	-43.4	.15115	335.6	.00057344	.10017921
350.60	-24.2	-41.6	.19019	335.9	.00087076	.10104997
345.80	-24.9	-40.9	.20777	336.2	.00097460	.10202457
341.00	-25.8	-41.3	.20142	336.3	.00100209	.10302666
336.20	-26.6	-42.3	.18165	336.6	.00093812	.10396478
331.50	-27.4	-43.4	.16215	336.9	.00082439	.10478917
326.70	-28.2	-42.1	.19252	337.2	.00086856	.10565773
322.00	-28.7	-41.1	.21976	337.9	.00098862	.10664634
317.80	-29.5	-37.5	.33123	338.1	.00118068	.10782702
313.60	-30.0	-43.8	.16439	338.6	.00106202	.10888904
309.50	-30.8	-43.3	.17617	338.8	.00071236	.10960141
305.80	-31.5	-44.6	.15321	339.0	.00062177	.11022317
301.80	-32.2	-47.2	.11361	339.3	.00054452	.11076769
297.20	-33.7	-45.3	.14546	338.7	.00060801	.11137570
293.30	-33.8	-43.4	.18327	339.8	.00065410	.11202981
289.50	-34.4	-44.6	.16184	340.2	.00066908	.11269888
285.80	-35.1	-47.0	.12303	340.5	.00053775	.11323664
282.00	-36.1	-48.0	.11140	340.4	.00045449	.11369112
278.00	-36.8	-48.2	.11027	340.7	.00045237	.11414349
274.30	-37.7	-47.2	.12500	340.8	.00044411	.11458760
270.50	-38.3	-51.3	.07677	341.3	.00039119	.11497879
267.00	-39.0	-53.5	.05892	341.5	.00024229	.11522108
263.20	-39.8	-53.8	.05788	341.8	.00022642	.11544751
259.60	-40.7	-54.1	.05619	341.8	.00020950	.11565700
256.00	-41.4	-53.5	.06145	342.0	.00021607	.11587307
252.40	-42.5	-54.4	.05538	341.8	.00021458	.11608765
247.90	-43.6	-55.8	.04713	341.9	.00023535	.11632299
243.70	-44.3	-52.0	.07875	342.6	.00026973	.11659272
239.60	-45.1	-48.6	.12187	343.0	.00041965	.11701237
235.80	-45.9	-49.0	.11796	343.4	.00046496	.11747733
231.90	-46.9	-51.0	.09376	343.5	.00042127	.11789860
228.30	-47.8	-54.2	.06323	343.7	.00028835	.11818695
224.40	-48.9	-55.2	.05661	343.7	.00023845	.11842540
220.60	-49.6	-55.1	.05820	344.3	.00022258	.11864798
217.00	-50.7	-57.5	.04338	344.2	.00018656	.11883454
213.20	-51.4	-61.5	.02558	344.8	.00013369	.11896823

TRINIDAD, W.I. 7/15/64 1440Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
209.50	-52.6	-60.7	.02899	344.7	.00010301	.11907125
205.90	-53.4	-60.8	.02921	345.2	.00010689	.11917813
202.30	-54.6	-59.8	.03411	345.1	.00011627	.11929440
199.00	-55.4	-60.2	.03269	345.4	.00011246	.11940686
195.70	-56.5	-60.6	.03165	345.3	.00010832	.11951518
192.50	-57.3	-60.7	.03185	345.6	.00010367	.11961885
189.30	-58.0	-59.1	.04025	346.2	.00011772	.11973657
186.20	-59.1	-59.4	.03933	346.0	.00012586	.11986242
183.00	-59.9	-60.1	.03625	346.5	.00012340	.11998582
180.00	-60.3	-60.8	.03341	347.4	.00010662	.12009244
177.10	-61.6	-62.0	.02878	347.0	.00009200	.12018444
174.30	-62.6	-62.9	.02604	346.9	.00007829	.12026273
171.50	-63.9	-63.8	.02335	346.3	.00007054	.12033327
168.70	-64.4	-64.4	.02156	347.1	.00006413	.12039740
165.90	-64.7	-65.4	.01916	348.3	.00005816	.12045556
163.20	-65.3	-66.3	.01721	349.0	.00005010	.12050566
160.40	-65.8	-67.3	.01516	349.7	.00004624	.12055190
157.70	-66.4	-69.0	.01188	350.5	.00003725	.12058915
154.90	-67.0	-71.1	.00885	351.3	.00002961	.12061876
152.00	-67.3	-71.6	.00841	352.6	.00002553	.12064429
149.20	-67.6	-72.3	.00768	354.0	.00002298	.12066726
146.30	-67.9	-72.2	.00799	355.5	.00002317	.12069044
143.30	-68.2	-72.7	.00753	357.0	.00002374	.12071417
140.20	-68.2	-73.0	.00739	359.3	.00002357	.12073775
137.50	-68.2	-74.3	.00620	361.3	.00001870	.12075645
134.50	-68.2	-75.3	.00536	363.5	.00001767	.12077412
132.00	-68.2	-76.3	.00465	365.5	.00001276	.12078688
129.60	-68.9	-76.6	.00453	366.3	.00001124	.12079811
127.20	-69.8	-76.1	.00504	366.5	.00001171	.12080982
124.80	-70.5	-76.1	.00513	367.3	.00001244	.12082227
122.40	-71.5	-76.3	.00501	367.4	.00001241	.12083468
120.00	-72.2	-76.7	.00484	368.2	.00001206	.12084673
117.50	-72.2	-77.0	.00473	370.4	.00001220	.12085894
115.00	-73.0	-77.2	.00468	371.4	.00001200	.12087093
112.40	-73.7	-78.1	.00409	372.4	.00001162	.12088256
109.80	-71.2	-79.1	.00356	379.7	.00001015	.12089270
107.20	-71.5	-79.5	.00344	381.6	.00000928	.12090199
104.50	-72.2	-79.8	.00337	383.1	.00000937	.12091136
101.70	-73.0	-79.9	.00338	384.6	.00000964	.12092100
99.30	-73.0	-80.3	.00326	387.3	.00000812	.12092912
96.90	-73.0	-81.0	.00299	390.0	.00000764	.12093677
94.60	-71.5	-81.1	.00299	395.5	.00000700	.12094377
92.30	-70.5	-81.3	.00295	400.3	.00000696	.12095073
90.20	-69.8	-81.7	.00283	404.3	.00000618	.12095691
88.10	-68.2	-82.2	.00269	410.3	.00000592	.12096283
86.00	-67.3	-82.6	.00258	414.9	.00000563	.12096846
83.90	-66.4	-83.0	.00244	419.7	.00000538	.12097384
82.00	-65.3	-83.5	.00231	424.8	.00000459	.12097843
80.00	-65.3	-83.5	.00236	427.8	.00000475	.12098318
78.00	-66.1	-83.6	.00239	429.1	.00000484	.12098803
76.10	-66.7	-83.8	.00235	430.9	.00000459	.12099262
74.10	-66.4	-84.2	.00229	434.9	.00000472	.12099734
72.50	-66.4	-84.4	.00224	437.6	.00000368	.12100102
70.80	-66.1	-84.6	.00223	441.2	.00000387	.12100489
69.00	-65.5	-84.9	.00216	445.7	.00000402	.12100892

TRINIDAD,W.I. 7/15/64 1440Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
67.20	-65.8	-85.0	.00219	448.4	.00000398	.12101290
65.20	-66.7	-85.1	.00219	450.4	.00000446	.12101735
63.60	-67.3	-85.3	.00218	452.3	.00000356	.12102091
62.00	-67.6	-85.5	.00217	455.0	.00000355	.12102446
60.30	-68.2	-85.7	.00217	457.2	.00000376	.12102821
58.70	-68.5	-85.8	.00216	460.0	.00000353	.12103175
57.20	-68.9	-86.0	.00215	462.7	.00000329	.12103504
55.50	-69.5	-86.3	.00212	465.3	.00000370	.12103873
54.00	-67.6	-86.2	.00221	473.3	.00000331	.12104204
52.30	-65.3	-86.1	.00232	483.0	.00000392	.12104596
50.70	-63.9	-86.1	.00239	490.6	.00000383	.12104979
49.20	-62.1	-86.1	.00246	499.1	.00000371	.12105350
47.60	-60.6	-86.1	.00255	507.4	.00000408	.12105758
46.10	-58.5	-86.0	.00267	517.2	.00000398	.12106156
44.50	-56.9	-86.2	.00268	526.2	.00000437	.12106593
43.00	-56.9	-86.5	.00261	531.4	.00000404	.12106997
41.60	-56.9	-86.7	.00262	536.4	.00000373	.12107369
40.10	-57.1	-86.9	.00263	541.5	.00000401	.12107770
38.70	-57.1	-87.1	.00264	547.1	.00000376	.12108146
37.30	-53.8	-87.2	.00265	561.4	.00000377	.12108523
36.20	-53.4	-87.5	.00260	567.3	.00000295	.12108818
35.20	-53.0	-87.7	.00259	572.9	.00000264	.12109081
34.20	-52.6	-88.0	.00254	578.6	.00000261	.12109342
33.00	-52.0	-88.2	.00255	586.1	.00000311	.12109654
32.10	-51.6	-88.5	.00245	591.8	.00000228	.12109882
31.00	-51.6	-88.8	.00241	597.7	.00000271	.12110153
30.20	-51.6	-89.0	.00239	602.2	.00000195	.12110348
29.30	-51.4	-89.4	.00229	607.9	.00000215	.12110563
28.50	-51.2	-89.7	.00223	613.3	.00000183	.12110746
26.40	-51.1	-89.9	.00232	627.4	.00000487	.12111233
25.40	-50.9	-90.1	.00233	634.9	.00000237	.12111470
24.40	-50.7	-90.5	.00225	642.7	.00000232	.12111703
23.50	-49.9	-90.6	.00229	651.8	.00000207	.12111910
22.40	-49.4	-90.9	.00227	662.4	.00000255	.12112164
21.60	-49.2	-91.2	.00222	669.9	.00000182	.12112346
20.70	-49.0	-91.3	.00227	678.6	.00000206	.12112552
19.90	-49.0	-91.7	.00222	686.3	.00000183	.12112735
19.20	-49.0	-91.9	.00221	693.4	.00000158	.12112893
18.40	-49.0	-92.4	.00208	701.8	.00000174	.12113068
17.80	-49.0	-92.5	.00211	708.5	.00000128	.12113196
17.10	-49.0	-92.7	.00215	716.7	.00000151	.12113346
16.50	-47.6	-93.0	.00209	728.6	.00000130	.12113476
15.90	-47.3	-93.4	.00203	737.5	.00000125	.12113601
15.40	-47.3	-93.6	.00200	744.2	.00000101	.12113702
14.90	-47.3	-93.5	.00212	751.3	.00000104	.12113807
14.40	-47.1	-93.6	.00214	759.2	.00000107	.12113914
14.00	-46.8	-94.0	.00205	766.5	.00000085	.12113999
13.60	-46.3	-93.8	.00217	774.6	.00000085	.12114084
13.20	-46.1	-94.1	.00213	781.9	.00000086	.12114170
12.90	-45.8	-94.0	.00223	788.2	.00000066	.12114236
12.50	-45.6	-94.1	.00225	795.9	.00000091	.12114327
12.10	-45.3	-94.2	.00227	804.5	.00000091	.12114418
11.80	-44.8	-94.2	.00233	812.0	.00000070	.12114488
11.50	-44.4	-94.3	.00233	819.2	.00000070	.12114558

TRINIDAD,W.I. 8/14/64 1412Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
86.30	-68.6	-67.6	.02667	412.0		
84.50	-68.6	-68.1	.02538	414.5	.00004779	.00004779
82.70	-68.9	-68.9	.02316	416.4	.00004457	.00009236
81.00	-68.6	-69.4	.02197	419.5	.00003913	.00013149
79.00	-68.9	-70.0	.02070	421.9	.00004354	.00017503
76.80	-65.3	-70.4	.01997	432.8	.00004564	.00022067
75.10	-64.7	-70.6	.01976	436.7	.00003445	.00025512
73.30	-64.7	-71.0	.01918	439.8	.00003575	.00029087
71.60	-64.5	-71.5	.01817	443.3	.00003238	.00032325
69.80	-64.2	-71.9	.01763	447.1	.00003287	.00035612
68.00	-62.9	-72.2	.01730	453.3	.00003207	.00038819
66.20	-62.3	-72.8	.01602	457.9	.00003059	.00041878
64.40	-62.1	-72.7	.01686	462.1	.00003019	.00044897
62.60	-62.1	-72.3	.01836	465.9	.00003234	.00048131
60.80	-61.8	-72.4	.01870	470.3	.00003403	.00051534
59.10	-61.8	-73.4	.01654	474.2	.00003056	.00054590
57.40	-61.8	-77.3	.00917	478.1	.00002229	.00056820
55.70	-61.8	-79.7	.00641	482.3	.00001350	.00058170
54.20	-62.3	-80.5	.00574	484.9	.00000928	.00059098
52.50	-61.6	-81.1	.00538	491.1	.00000963	.00060061
50.70	-60.4	-81.6	.00513	498.9	.00000964	.00061025
49.00	-59.4	-82.3	.00472	506.0	.00000854	.00061879
47.30	-58.7	-83.4	.00410	512.8	.00000764	.00062643
45.90	-58.0	-84.1	.00371	518.8	.00000557	.00063200
44.40	-57.6	-84.8	.00341	524.9	.00000544	.00063744
43.00	-57.2	-85.7	.00300	530.8	.00000457	.00064202
41.50	-56.7	-85.7	.00311	537.3	.00000468	.00064670
40.10	-56.3	-86.0	.00309	543.6	.00000443	.00065112
38.70	-55.2	-85.8	.00327	551.9	.00000453	.00065565
37.30	-54.2	-86.6	.00298	560.3	.00000446	.00066011
36.00	-53.6	-86.9	.00290	567.6	.00000389	.00066400
34.70	-52.8	-87.2	.00287	575.6	.00000381	.00066781
33.40	-52.2	-87.2	.00298	583.5	.00000387	.00067168
32.00	-53.2	-87.3	.00304	588.1	.00000429	.00067598
30.70	-53.0	-88.2	.00270	595.6	.00000380	.00067978
29.30	-52.8	-88.8	.00256	604.1	.00000374	.00068352
28.00	-52.6	-89.1	.00255	612.5	.00000338	.00068690
26.70	-52.0	-89.1	.00267	622.6	.00000346	.00069036
25.20	-51.9	-89.2	.00276	633.5	.00000416	.00069451
24.30	-52.6	-89.6	.00265	637.9	.00000247	.00069699
23.30	-52.4	-90.7	.00229	646.1	.00000252	.00069951
22.40	-51.7	-91.1	.00218	655.7	.00000204	.00070155
21.30	-51.3	-91.6	.00210	666.4	.00000240	.00070395
20.40	-50.7	-92.1	.00200	676.3	.00000188	.00070582
19.60	-50.0	-91.6	.00229	686.4	.00000174	.00070757
18.80	-49.6	-92.1	.00218	695.7	.00000182	.00070938
18.00	-48.9	-92.3	.00220	706.7	.00000177	.00071116
17.30	-46.0	-92.6	.00215	724.1	.00000155	.00071271
16.50	-47.7	-93.1	.00205	728.5	.00000170	.00071441
15.90	-47.5	-93.5	.00199	736.8	.00000122	.00071563
15.30	-47.3	-93.5	.00206	745.5	.00000124	.00071687
14.80	-47.2	-93.6	.00206	753.1	.00000104	.00071791
14.20	-46.7	-95.0	.00167	763.8	.00000113	.00071904
13.70	-46.3	-94.2	.00201	772.8	.00000092	.00071996
13.30	-46.1	-94.2	.00207	780.0	.00000082	.00072078
12.90	-45.8	-96.2	.00145	788.0	.00000072	.00072150

TRINIDAD,W.I. 8/14/64 1412Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
12.50	-45.6	-95.5	.00169	795.7	.00000064	.00072214
12.20	-45.3	-96.0	.00160	802.4	.00000049	.00072263

TRINIDAD,W.I. 9/28/64 1347Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
296.80	-33.9	-36.0	.41995	338.5		
292.70	-34.9	-36.9	.38529	338.5	.00168441	.00168441
288.30	-35.8	-37.2	.37834	338.6	.00171427	.00339869
284.20	-36.7	-37.2	.38381	338.8	.00159428	.00499296
280.00	-37.4	-37.6	.37127	339.2	.00161801	.00661097
276.30	-38.4	-38.6	.33659	339.1	.00133626	.00794724
272.50	-39.1	-40.3	.28451	339.4	.00120415	.00915138
268.70	-39.9	-40.4	.28440	339.5	.00110298	.01025437
265.10	-40.8	-40.9	.27180	339.5	.00102159	.01127596
261.80	-41.7	-42.9	.21982	339.4	.00082773	.01210369
258.50	-42.5	-45.3	.16651	339.6	.00065045	.01275414
255.30	-43.2	-47.3	.13324	339.6	.00048938	.01324353
249.30	-44.1	-46.9	.14321	340.6	.00084628	.01408981
245.50	-44.8	-48.1	.12591	341.1	.00052175	.01461156
241.70	-45.7	-48.7	.11921	341.2	.00047521	.01508677
237.80	-46.9	-49.7	.10671	341.1	.00044951	.01553628
234.00	-47.7	-50.1	.10365	341.4	.00040781	.01594409
230.20	-48.7	-51.2	.09114	341.5	.00037763	.01632172
226.50	-49.4	-52.6	.07785	342.0	.00031900	.01664072
222.70	-50.3	-54.3	.06414	342.3	.00027528	.01691601
219.10	-51.0	-56.2	.05103	342.8	.00021154	.01712754
215.60	-52.1	-56.9	.04692	342.7	.00017491	.01730245
212.00	-52.8	-58.6	.03805	343.2	.00015606	.01745851
207.80	-54.0	-60.3	.03108	343.4	.00014810	.01760662
203.70	-54.9	-61.0	.02881	343.8	.00012526	.01773188
199.80	-55.9	-61.4	.02774	344.2	.00011252	.01784439
196.20	-57.0	-62.2	.02545	344.3	.00009769	.01794209
192.70	-58.0	-63.2	.02248	344.4	.00008558	.01802766
189.40	-58.6	-64.3	.01967	345.1	.00007096	.01809862
186.00	-60.0	-65.0	.01804	344.7	.00006540	.01816402
182.70	-60.7	-65.7	.01671	345.3	.00005850	.01822253
179.50	-61.4	-67.1	.01380	345.9	.00004980	.01827233
176.40	-62.3	-67.7	.01289	346.1	.00004221	.01831454
172.90	-63.3	-67.9	.01278	346.5	.00004582	.01836036
170.00	-64.1	-68.0	.01287	346.9	.00003794	.01839830
167.10	-65.1	-67.9	.01335	346.8	.00003879	.01843709
164.00	-65.9	-68.2	.01284	347.3	.00004141	.01847850
161.00	-66.8	-68.8	.01200	347.8	.00003801	.01851651
158.00	-67.9	-69.8	.01068	347.7	.00003470	.01855122
155.00	-68.2	-71.7	.00819	349.1	.00002888	.01858009
152.30	-68.8	-73.8	.00597	349.9	.00001951	.01859960
149.60	-68.8	-74.1	.00584	351.6	.00001626	.01861586
146.70	-68.5	-74.4	.00565	354.1	.00001699	.01863284
143.60	-67.6	-74.9	.00536	357.8	.00001740	.01865025
140.60	-68.2	-74.6	.00571	359.0	.00001694	.01866719
138.00	-69.1	-74.4	.00601	359.3	.00001554	.01868273
135.60	-71.7	-74.2	.00631	356.6	.00001507	.01869780
133.00	-71.0	-74.7	.00598	359.7	.00001629	.01871409
130.50	-71.7	-75.3	.00554	360.5	.00001468	.01872876
127.90	-72.7	-75.9	.00513	360.7	.00001416	.01874292
125.20	-73.0	-75.3	.00577	362.3	.00001502	.01875794
122.60	-73.8	-75.2	.00602	363.2	.00001563	.01877357
120.00	-74.5	-75.9	.00547	364.1	.00001524	.01878881
117.50	-75.3	-76.0	.00553	364.9	.00001402	.01880284
115.00	-75.3	-76.6	.00512	367.1	.00001357	.01881641
112.40	-75.6	-77.2	.00474	368.8	.00001308	.01882949

TRINIDAD,W.I. 9/28/64 13472

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
109.80	-75.3	-78.0	.00429	372.0	.00001198	.01884148
107.50	-74.9	-78.7	.00391	375.0	.00000961	.01885109
105.40	-74.9	-79.1	.00371	377.1	.00000815	.01885924
103.30	-74.9	-79.4	.00366	379.3	.00000788	.01886712
101.20	-75.3	-79.1	.00387	380.8	.00000805	.01887517
99.10	-75.3	-78.6	.00429	383.1	.00000873	.01888390
97.00	-75.6	-78.5	.00448	384.7	.00000939	.01889329
94.80	-75.6	-78.9	.00428	387.2	.00000982	.01890311
92.70	-74.9	-79.6	.00393	391.2	.00000879	.01891190
90.70	-74.9	-80.1	.00369	393.7	.00000778	.01891968
88.50	-75.3	-81.8	.00288	395.7	.00000736	.01892704
86.50	-74.5	-82.0	.00283	399.8	.00000581	.01893285
84.40	-72.7	-81.3	.00326	406.2	.00000651	.01893936
82.30	-71.3	-82.2	.00286	412.0	.00000654	.01894590
80.20	-71.0	-82.9	.00260	415.7	.00000584	.01895174
78.20	-70.0	-83.1	.00260	420.7	.00000530	.01895705
76.30	-69.7	-83.2	.00259	424.3	.00000502	.01896207
74.50	-69.4	-83.6	.00248	427.9	.00000465	.01896672
72.70	-68.2	-84.1	.00237	433.4	.00000444	.01897116
70.80	-67.9	-84.5	.00227	437.3	.00000449	.01897565
69.00	-67.9	-84.7	.00223	440.6	.00000411	.01897976
67.20	-67.9	-84.8	.00225	443.9	.00000410	.01898386
65.40	-67.3	-85.2	.00215	448.6	.00000404	.01898789
63.60	-66.5	-84.8	.00238	454.1	.00000416	.01899205
61.80	-65.9	-85.5	.00218	459.1	.00000417	.01899622
60.00	-63.3	-87.0	.00172	468.8	.00000358	.01899980
58.50	-63.1	-87.3	.00168	472.7	.00000259	.01900239
57.00	-62.8	-87.5	.00164	476.8	.00000253	.01900493
55.40	-62.8	-87.5	.00169	480.7	.00000271	.01900764
53.90	-62.8	-87.5	.00176	484.5	.00000264	.01901028
52.30	-62.3	-87.0	.00197	489.8	.00000304	.01901332
50.80	-60.9	-86.5	.00224	497.3	.00000322	.01901653
49.30	-60.0	-86.3	.00238	503.7	.00000352	.01902005
47.70	-58.6	-87.0	.00216	511.7	.00000370	.01902375
46.30	-58.2	-88.2	.00180	517.1	.00000282	.01902656
44.80	-58.0	-89.5	.00148	522.5	.00000250	.01902907
43.50	-57.8	-89.0	.00166	527.5	.00000207	.01903114
41.90	-57.6	-88.2	.00199	533.7	.00000297	.01903410
40.50	-57.2	-88.9	.00182	539.9	.00000271	.01903681
39.10	-57.2	-89.3	.00175	545.4	.00000255	.01903936
37.80	-56.5	-89.1	.00188	552.3	.00000240	.01904176
36.60	-55.7	-85.6	.00362	559.5	.00000335	.01904511
35.30	-54.7	-83.2	.00568	567.9	.00000615	.01905127
34.10	-53.8	-81.3	.00806	576.0	.00000840	.01905967
33.00	-52.8	-79.8	.01066	584.0	.00001049	.01907016
32.00	-52.1	-78.6	.01343	591.1	.00001228	.01908244
30.80	-52.1	-77.6	.01619	597.6	.00001812	.01910056
29.60	-51.9	-77.2	.01821	604.9	.00002106	.01912162
28.50	-51.7	-76.8	.01999	612.0	.00002144	.01914306
27.40	-51.2	-76.3	.02245	620.4	.00002381	.01916687
26.30	-51.2	-76.3	.02365	627.7	.00002587	.01919274
25.20	-50.8	-76.1	.02522	636.5	.00002742	.01922016
23.60	-50.4	-75.9	.02811	649.6	.00004353	.01926368
22.30	-50.1	-76.2	.02819	661.2	.00003734	.01930103
21.20	-49.6	-76.2	.02965	672.4	.00003245	.01933348

TRINIDAD,W.I. 9/28/64 1347Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
20.20	-49.2	-75.6	.03430	682.8	.00003262	.01936610
19.40	-48.9	-75.4	.03687	691.8	.00002904	.01939514
18.60	-48.9	-75.0	.04097	700.2	.00003177	.01942691
18.10	-49.2	-74.7	.04392	704.6	.00002165	.01944856
17.70	-48.9	-74.4	.04733	710.2	.00001861	.01946718
17.20	-48.2	-74.1	.05076	718.2	.00002502	.01949219
16.80	-47.9	-73.7	.05529	724.1	.00002164	.01951383
16.40	-47.5	-73.5	.05839	730.2	.00002319	.01953702
15.90	-47.5	-73.2	.06275	736.7	.00003089	.01956791
15.50	-47.4	-73.2	.06437	742.6	.00002594	.01959385
15.00	-47.2	-73.2	.06719	750.1	.00003356	.01962741
14.60	-47.2	-73.1	.06974	756.0	.00002794	.01965535
14.20	-47.0	-73.1	.07171	762.5	.00002886	.01968421
13.80	-46.9	-73.0	.07455	769.3	.00002985	.01971406
13.40	-46.9	-72.9	.07834	775.8	.00003119	.01974525
13.00	-46.9	-73.0	.07993	782.6	.00003229	.01977754
12.60	-46.7	-72.8	.08415	790.2	.00003348	.01981102
12.20	-46.5	-72.8	.08780	798.1	.00003508	.01984610
11.80	-46.4	-72.7	.09172	806.3	.00003663	.01988272
11.50	-46.4	-72.5	.09697	812.2	.00002888	.01991160
11.20	-46.2	-72.3	.10262	819.0	.00003055	.01994215

TRINIDAD, W.I. 9/29/64 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
232.90	-48.2	-54.9	.05695	341.1		
229.40	-48.9	-56.4	.04715	341.5	.00018588	.00018588
226.00	-50.0	-56.5	.04739	341.4	.00016399	.00034986
222.90	-50.5	-56.5	.04805	341.9	.00015095	.00050081
219.70	-51.0	-57.4	.04303	342.5	.00014870	.00064951
216.90	-51.9	-58.2	.03962	342.4	.00011806	.00076757
213.70	-52.5	-58.2	.03984	342.9	.00012971	.00089729
211.00	-53.4	-59.0	.03634	342.7	.00010493	.00100222
208.30	-53.8	-61.1	.02774	343.4	.00008827	.00109050
205.50	-54.2	-58.9	.03768	344.1	.00009345	.00118394
202.60	-54.6	-60.6	.03075	344.9	.00010124	.00128518
199.70	-55.6	-62.7	.02312	344.7	.00007971	.00136489
196.80	-56.2	-64.3	.01890	345.2	.00006215	.00142704
193.90	-57.1	-65.7	.01572	345.3	.00005120	.00147824
191.00	-57.9	-66.2	.01479	345.4	.00004512	.00152336
188.00	-58.6	-66.2	.01502	345.9	.00004561	.00156897
184.90	-59.2	-66.2	.01527	346.5	.00004791	.00161688
181.80	-60.1	-64.2	.02084	346.7	.00005712	.00167400
178.70	-60.8	-64.0	.02181	347.3	.00006746	.00174145
175.20	-61.6	-63.9	.02246	348.1	.00007905	.00182050
172.20	-62.8	-67.9	.01289	347.8	.00005409	.00187460
169.10	-63.3	-68.4	.01213	348.7	.00003956	.00191416
166.00	-64.3	-69.2	.01109	348.9	.00003673	.00195089
162.90	-65.1	-70.0	.00992	349.4	.00003323	.00198412
159.80	-65.6	-69.8	.01043	350.4	.00003217	.00201629
156.90	-66.5	-69.8	.01073	350.8	.00003129	.00204758
154.00	-67.6	-69.7	.01104	350.7	.00003220	.00207978
151.10	-68.5	-69.7	.01125	351.1	.00003296	.00211275
148.50	-68.8	-69.4	.01191	352.3	.00003073	.00214347
145.80	-69.1	-69.9	.01132	353.7	.00003199	.00217547
143.40	-69.4	-70.7	.01019	354.8	.00002633	.00220180
140.90	-70.4	-71.8	.00880	354.9	.00002420	.00222600
138.40	-70.7	-72.6	.00798	356.2	.00002138	.00224738
135.80	-71.4	-73.4	.00715	356.9	.00002006	.00226744
133.30	-71.7	-74.0	.00661	358.2	.00001754	.00228497
130.70	-72.8	-74.2	.00659	358.4	.00001749	.00230247
128.20	-73.9	-74.5	.00636	358.4	.00001651	.00231898
125.70	-74.6	-74.9	.00613	359.1	.00001593	.00233491
123.30	-75.0	-75.6	.00558	360.4	.00001433	.00234924
121.00	-75.4	-76.3	.00513	361.6	.00001256	.00236180
118.70	-75.8	-76.9	.00470	362.9	.00001152	.00237332
116.90	-75.0	-77.5	.00438	365.9	.00000833	.00238165
114.00	-74.2	-77.8	.00428	370.0	.00001281	.00239447
111.70	-74.2	-77.8	.00437	372.1	.00001015	.00240462
109.30	-74.6	-77.6	.00463	373.7	.00001101	.00241563
107.20	-75.0	-78.1	.00434	375.1	.00000960	.00242522
105.10	-75.0	-78.8	.00395	377.2	.00000887	.00243409
103.00	-75.4	-79.3	.00373	378.7	.00000823	.00244232
100.90	-75.8	-80.9	.00292	380.1	.00000711	.00244942
98.80	-76.2	-79.0	.00404	381.6	.00000745	.00245687
96.80	-76.6	-77.9	.00492	383.1	.00000913	.00246601
94.80	-77.4	-77.5	.00541	383.8	.00001054	.00247654
92.80	-76.6	-77.9	.00513	387.7	.00001074	.00248729
90.70	-76.2	-78.3	.00494	391.1	.00001077	.00249806
88.70	-75.0	-78.4	.00498	395.9	.00001012	.00250818
86.70	-72.4	-78.7	.00485	403.7	.00001003	.00251821

TRINIDAD,W.I. 9/29/54 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
84.80	-69.1	-79.0	.00471	412.9	.00000925	.00252746
82.80	-67.9	-79.0	.00482	418.2	.00000972	.00253718
81.00	-67.9	-79.1	.00487	420.8	.00000890	.00254607
79.20	-67.9	-79.7	.00455	423.5	.00000864	.00255471
77.30	-67.9	-80.1	.00436	426.5	.00000863	.00256334
75.40	-68.2	-80.2	.00435	428.9	.00000843	.00257178
73.70	-68.5	-80.9	.00399	431.1	.00000723	.00257900
71.90	-68.5	-81.2	.00387	434.1	.00000721	.00258622
70.00	-68.5	-81.9	.00355	437.5	.00000718	.00259340
68.30	-68.5	-82.6	.00324	440.6	.00000587	.00259927
66.60	-67.1	-83.1	.00303	446.9	.00000544	.00260471
64.80	-66.2	-83.6	.00289	452.3	.00000542	.00261013
63.20	-65.9	-84.0	.00274	456.1	.00000459	.00261472
61.40	-65.4	-84.1	.00277	461.1	.00000505	.00261977
59.70	-64.8	-84.3	.00276	466.1	.00000480	.00262457
58.10	-63.5	-84.5	.00275	472.6	.00000449	.00262906
56.50	-62.3	-85.1	.00256	479.3	.00000432	.00263338
54.80	-61.1	-85.6	.00243	486.2	.00000432	.00263770
53.30	-59.9	-86.0	.00229	492.8	.00000361	.00264131
51.80	-58.8	-86.3	.00223	499.4	.00000346	.00264476
50.30	-58.8	-86.6	.00222	503.7	.00000340	.00264816
48.80	-58.8	-86.9	.00217	508.0	.00000335	.00265151
47.40	-59.0	-87.1	.00215	511.8	.00000307	.00265458
46.10	-59.0	-87.1	.00221	515.8	.00000289	.00265747
44.80	-58.6	-87.0	.00232	521.1	.00000300	.00266047
43.60	-58.3	-86.9	.00243	525.7	.00000289	.00266336
42.30	-57.9	-86.4	.00269	531.4	.00000338	.00266674
41.00	-57.5	-85.2	.00347	537.2	.00000408	.00267082
39.50	-57.1	-84.3	.00418	544.0	.00000584	.00267667
38.50	-56.8	-84.3	.00428	548.6	.00000431	.00268097
37.20	-56.6	-87.2	.00269	554.5	.00000462	.00268559
36.00	-57.7	-89.4	.00187	557.0	.00000279	.00268838
34.70	-58.1	-86.4	.00328	561.7	.00000341	.00269179
33.50	-58.6	-79.3	.01147	566.3	.00000902	.00270081
32.30	-58.3	-77.9	.01493	572.8	.00001615	.00271696
31.20	-57.7	-77.6	.01623	580.2	.00001748	.00273444
30.00	-56.2	-77.7	.01648	590.8	.00002001	.00275445
28.80	-55.4	-81.6	.00914	600.0	.00001568	.00277013
27.70	-54.2	-85.6	.00480	610.0	.00000781	.00277793
26.60	-53.2	-85.6	.00492	619.8	.00000544	.00278337
25.50	-52.3	-76.1	.02519	630.1	.00001688	.00280026
24.40	-51.6	-71.3	.05519	640.2	.00004511	.00284536
23.50	-50.5	-71.5	.05555	650.3	.00005084	.00289620
22.70	-50.7	-72.3	.05075	656.2	.00004338	.00293958
21.60	-50.7	-76.1	.02974	665.6	.00004517	.00298475
20.70	-50.7	-80.3	.01564	673.7	.00002083	.00300558
19.90	-50.7	-79.9	.01739	681.3	.00001347	.00301905
19.10	-50.7	-79.2	.02038	689.4	.00001541	.00303446
18.30	-50.8	-78.9	.02210	697.3	.00001733	.00305179
17.60	-50.8	-79.3	.02155	705.1	.00001559	.00306737
16.90	-50.7	-79.0	.02363	713.9	.00001612	.00308350
16.30	-49.8	-78.5	.02678	724.2	.00001542	.00309892
15.70	-49.1	-75.9	.04187	734.3	.00002101	.00311993
15.10	-48.4	-71.3	.08918	744.8	.00004011	.00316004
14.60	-47.9	-72.4	.07807	753.7	.00004266	.00320271

TRINIDAD,W.I. 9/29/64 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
14.10	-47.0	-81.6	.01866	764.1	.00002468	.00322738
13.70	-46.5	-79.3	.02769	772.1	.00000945	.00323683
13.20	-45.7	-76.3	.04699	783.1	.00001904	.00325587
12.80	-45.1	-75.4	.05565	792.3	.00002094	.00327681
12.40	-44.6	-73.2	.08092	801.2	.00002787	.00330468
12.00	-44.0	-74.3	.07023	810.9	.00003085	.00333552
11.60	-43.4	-74.8	.06798	821.0	.00002819	.00336371
11.30	-42.6	-75.1	.06598	830.0	.00002050	.00338422
10.90	-42.1	-74.6	.07398	840.2	.00002855	.00341277

TRINIDAD, W.I. 10/21/64 1334Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
224.20	-47.8	-55.5	.05416	345.4		
220.00	-49.0	-55.8	.05308	345.5	.00022979	.00022979
216.00	-50.2	-58.8	.03644	345.4	.00018267	.00041246
212.20	-50.9	-60.0	.03185	346.0	.00013240	.00054486
207.90	-51.3	-60.9	.02845	347.5	.00013228	.00067714
203.80	-52.2	-60.7	.03016	348.0	.00012259	.00079973
200.00	-53.5	-60.0	.03379	347.8	.00012398	.00092371
196.00	-54.5	-60.7	.03136	348.3	.00013295	.00105666
192.50	-55.9	-60.7	.03193	347.9	.00011301	.00116967
188.90	-56.5	-58.5	.04371	348.8	.00013891	.00130858
185.00	-58.0	-59.1	.04095	348.5	.00016843	.00147700
181.50	-59.1	-58.3	.04681	348.6	.00015672	.00163372
178.00	-60.2	-61.8	.02936	348.7	.00013602	.00176974
174.30	-61.4	-63.6	.02339	348.9	.00009957	.00186931
170.50	-62.1	-63.7	.02369	349.9	.00009128	.00196059
166.80	-62.8	-62.9	.02690	350.9	.00009549	.00205608
163.00	-63.8	-69.2	.01122	351.5	.00007389	.00212997
160.00	-65.4	-70.9	.00895	350.7	.00003086	.00216083
156.50	-66.5	-72.2	.00741	351.1	.00002919	.00219002
153.20	-67.6	-72.2	.00757	351.3	.00002521	.00221524
150.00	-67.9	-72.2	.00781	352.9	.00002511	.00224034
146.60	-68.8	-71.5	.00889	353.7	.00002895	.00226930
143.50	-69.7	-71.6	.00889	354.3	.00002810	.00229740
140.50	-70.7	-72.5	.00790	354.7	.00002569	.00232309
137.50	-71.3	-71.1	.01009	355.8	.00002754	.00235063
134.70	-71.7	-72.2	.00870	357.3	.00002684	.00237747
131.80	-72.7	-74.8	.00598	357.7	.00002171	.00239918
129.10	-73.4	-72.9	.00815	358.5	.00001946	.00241864
126.40	-73.7	-74.4	.00660	360.1	.00002031	.00243895
123.70	-73.0	-76.9	.00454	363.6	.00001533	.00245428
121.00	-72.7	-77.0	.00458	366.5	.00001256	.00246684
118.50	-72.7	-76.2	.00534	368.7	.00001265	.00247949
116.00	-72.3	-76.4	.00526	371.6	.00001352	.00249301
113.30	-72.0	-75.6	.00606	374.8	.00001560	.00250861
111.00	-73.4	-75.3	.00648	374.4	.00001471	.00252332
107.70	-74.9	-74.5	.00766	374.8	.00002381	.00254713
105.40	-74.9	-74.2	.00810	377.1	.00001848	.00256561
102.60	-75.2	-74.3	.00822	379.3	.00002331	.00258891
100.30	-75.6	-74.0	.00880	381.0	.00001997	.00260888
98.20	-74.9	-74.0	.00899	384.8	.00001906	.00262794
96.00	-74.5	-75.6	.00716	388.1	.00001812	.00264606
93.70	-74.1	-75.5	.00750	391.5	.00001720	.00266325
91.30	-74.1	-74.8	.00864	394.4	.00001976	.00268301
89.00	-73.7	-74.2	.00959	398.0	.00002138	.00270440
86.70	-73.4	-75.2	.00849	401.7	.00002120	.00272560
84.50	-73.0	-77.3	.00625	405.4	.00001654	.00274214
82.20	-72.7	-77.4	.00635	409.3	.00001477	.00275691
80.00	-71.3	-76.5	.00754	415.3	.00001559	.00277250
78.00	-71.0	-78.0	.00605	419.0	.00001386	.00278635
76.00	-70.7	-78.9	.00540	422.8	.00001168	.00279804
74.00	-70.3	-78.5	.00591	426.7	.00001153	.00280957
72.00	-69.7	-78.8	.00577	431.4	.00001192	.00282149
70.00	-66.8	-78.9	.00579	441.2	.00001179	.00283328
68.00	-65.9	-80.7	.00449	446.7	.00001049	.00284377
66.20	-65.1	-81.4	.00407	451.9	.00000785	.00285162
64.60	-63.8	-81.9	.00382	457.9	.00000644	.00285806

TRINIDAD,W.I. 10/21/64 1334Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
62.90	-63.6	-81.9	.00392	462.0	.00000671	.00286476
61.00	-62.3	-82.4	.00376	468.8	.00000744	.00287220
59.50	-61.4	-82.5	.00380	474.3	.00000578	.00287798
58.00	-60.4	-82.9	.00361	479.9	.00000566	.00288364
56.30	-60.9	-83.3	.00350	482.9	.00000615	.00288980
54.80	-60.2	-83.6	.00338	488.3	.00000526	.00289506
53.20	-59.3	-84.2	.00316	494.5	.00000533	.00290039
51.80	-58.6	-84.3	.00319	499.8	.00000453	.00290492
50.20	-58.4	-84.4	.00324	504.8	.00000525	.00291017
48.60	-58.6	-84.7	.00319	509.0	.00000525	.00291541
47.00	-58.6	-84.9	.00319	513.9	.00000520	.00292061
45.50	-58.6	-85.4	.00303	518.7	.00000475	.00292537
44.00	-58.6	-84.7	.00352	523.7	.00000501	.00293037
42.50	-58.6	-85.2	.00335	528.9	.00000525	.00293562
40.10	-57.1	-86.3	.00293	541.5	.00000769	.00294331
39.60	-57.6	-86.0	.00313	542.4	.00000153	.00294484
38.20	-58.0	-87.0	.00271	546.9	.00000416	.00294900
36.70	-58.4	-86.6	.00304	552.1	.00000438	.00295338
35.30	-58.6	-86.5	.00321	557.7	.00000446	.00295784
33.80	-58.6	-86.5	.00335	564.7	.00000502	.00296286
32.40	-58.2	-86.6	.00344	572.7	.00000484	.00296770
31.00	-56.7	-86.9	.00340	584.0	.00000487	.00297257
29.70	-55.1	-86.6	.00375	595.6	.00000474	.00297731
28.30	-54.5	-86.8	.00380	605.5	.00000538	.00298269
26.80	-53.2	-86.9	.00393	618.8	.00000590	.00298859
25.40	-50.9	-86.8	.00423	634.6	.00000583	.00299442
24.00	-48.3	-86.9	.00439	652.6	.00000615	.00300057
22.70	-48.2	-87.3	.00431	663.6	.00000577	.00300634
21.40	-48.2	-87.5	.00440	674.8	.00000577	.00301211
20.20	-48.0	-87.6	.00457	686.6	.00000548	.00301759
19.00	-47.8	-88.1	.00450	699.2	.00000554	.00302313
17.90	-47.5	-88.6	.00432	712.3	.00000493	.00302806
16.90	-47.3	-89.0	.00430	724.6	.00000440	.00303246
15.80	-46.8	-89.4	.00423	740.3	.00000478	.00303724
14.80	-45.9	-89.7	.00433	757.5	.00000435	.00304160
13.90	-45.5	-90.3	.00413	772.3	.00000387	.00304547
13.00	-45.2	-90.8	.00403	788.3	.00000374	.00304921
12.30	-45.1	-91.0	.00407	801.4	.00000289	.00305210
11.90	-44.7	-91.4	.00392	810.2	.00000162	.00305372
11.60	-44.4	-91.8	.00374	817.2	.00000116	.00305489
11.40	-44.3	-92.2	.00353	821.9	.00000073	.00305562
11.10	-43.8	-92.6	.00336	829.9	.00000104	.00305666

TRINIDAD,W.I. 11/17/64 1341Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
647.00	4.3	-8.8	2.78678	314.2		
637.00	2.9	-11.7	2.17947	314.0	.02533793	.02533793
626.00	2.3	-10.9	2.38259	314.9	.02560328	.05094121
616.00	1.6	-8.8	2.92769	315.6	.02709311	.07803433
605.00	1.3	-8.3	3.10422	316.9	.03385241	.11188674
596.00	.9	-7.9	3.27894	317.8	.02931033	.14119707
587.00	.2	-9.3	2.95258	318.4	.02861403	.16981110
578.00	-.0	-11.3	2.48796	319.4	.02498199	.19479309
568.00	-.6	-14.0	1.99309	320.4	.02286242	.21765551
559.00	-1.4	-12.9	2.23830	320.9	.01942976	.23708527
549.00	-2.3	-11.7	2.53024	321.5	.02432919	.26141445
539.00	-3.1	-13.3	2.24322	322.2	.02435432	.28576878
530.40	-3.8	-16.3	1.71647	322.9	.01737408	.30314286
520.10	-4.6	-15.7	1.85919	323.8	.01879039	.32193325
514.00	-5.2	-17.3	1.62154	324.1	.01083283	.33276609
505.80	-6.0	-19.3	1.35706	324.6	.01246141	.34522749
497.80	-6.7	-19.3	1.37891	325.3	.01116717	.35639466
490.00	-7.4	-18.8	1.47830	325.8	.01137048	.36776514
482.00	-7.9	-17.6	1.68179	326.7	.01289827	.38066341
474.00	-8.3	-22.2	1.09533	327.8	.01133515	.39199856
466.60	-9.0	-23.2	1.01265	328.5	.00795867	.39995722
459.20	-9.4	-18.8	1.57770	329.5	.00977986	.40973708
451.30	-10.5	-20.4	1.37026	329.7	.01188205	.42161913
445.00	-11.1	-19.3	1.54293	330.2	.00936379	.43098292
438.80	-11.8	-20.4	1.40939	330.7	.00933892	.44032183
432.80	-12.5	-22.0	1.22957	331.1	.00807840	.44840023
426.80	-13.0	-22.0	1.24689	331.8	.00758097	.45598119
421.90	-13.9	-22.4	1.20235	331.7	.00612308	.46210428
415.00	-14.4	-23.9	1.06266	332.7	.00797373	.47007801
409.40	-14.9	-24.8	.98551	333.3	.00585189	.47592990
403.70	-15.4	-25.4	.93636	334.0	.00558910	.48151900
398.10	-16.4	-26.2	.87276	334.0	.00516888	.48668788
393.00	-17.2	-28.0	.73690	334.3	.00418837	.49087626
387.90	-18.0	-27.3	.80868	334.4	.00402164	.49489790
382.60	-18.9	-26.9	.85360	334.5	.00449491	.49939281
377.00	-19.7	-29.5	.65940	335.0	.00432283	.50371563
371.80	-20.3	-31.2	.55817	335.5	.00323026	.50694589
366.50	-20.9	-30.2	.63040	336.0	.00321396	.51015985
360.90	-21.9	-27.7	.83471	336.1	.00418600	.51434585
355.40	-22.8	-27.8	.83139	336.4	.00467525	.51902111
350.00	-23.6	-27.8	.84424	336.9	.00461651	.52363762
344.80	-24.6	-27.8	.85699	337.0	.00451343	.52815105
339.50	-25.5	-25.8	1.06739	337.2	.00520365	.53335470
334.40	-26.6	-27.1	.95688	337.1	.00526722	.53862192
329.20	-27.8	-27.5	.93388	337.1	.00501628	.54363820
324.30	-28.6	-27.8	.91124	337.4	.00461277	.54825097
319.20	-29.3	-28.8	.84032	337.9	.00455761	.55280858
314.30	-30.0	-29.2	.82181	338.5	.00415529	.55696388
310.00	-30.7	-29.9	.77311	338.9	.00349903	.56046291
305.30	-31.6	-31.1	.69215	339.1	.00351362	.56397653
300.70	-32.2	-31.4	.67861	339.6	.00321706	.56719358
296.10	-33.3	-32.4	.62161	339.6	.00305150	.57024509
291.80	-34.0	-33.5	.56167	340.0	.00259596	.57284105
287.30	-34.8	-34.9	.48656	340.4	.00240664	.57524769
283.00	-35.7	-37.0	.39419	340.6	.00193223	.57717992
278.10	-36.8	-37.9	.36276	340.7	.00189236	.57907228

TRINIDAD,W.I. 11/17/64 1341Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
273.30	-37.8	-38.5	.34410	341.0	.00173108	.58080336
268.60	-38.9	-39.4	.31805	341.0	.00158779	.58239116
264.00	-39.8	-40.4	.29069	341.4	.00142865	.58381981
259.30	-40.8	-40.7	.28449	341.7	.00137925	.58519906
255.00	-42.0	-41.9	.25108	341.5	.00117497	.58637403
250.60	-42.9	-43.4	.21481	341.9	.00104587	.58741990
246.40	-43.9	-46.9	.14530	342.1	.00077167	.58819157
242.00	-45.0	-47.2	.14152	342.2	.00064386	.58883543
237.60	-46.0	-48.3	.12630	342.6	.00060120	.58943664
233.50	-47.1	-49.8	.10715	342.5	.00048833	.58992496
229.30	-48.1	-51.2	.09142	342.7	.00042550	.59035046
225.10	-49.2	-52.8	.07679	343.0	.00036044	.59071091
221.00	-50.0	-54.3	.06413	343.4	.00029477	.59100568
216.70	-51.5	-56.6	.04887	343.1	.00024790	.59125358
212.40	-52.4	-57.8	.04238	343.7	.00020018	.59145376
208.20	-53.6	-57.4	.04578	343.8	.00018890	.59164266
204.10	-54.5	-57.7	.04453	344.2	.00018890	.59183156
200.30	-55.5	-57.3	.04805	344.5	.00017947	.59201103
196.50	-56.4	-58.4	.04247	345.1	.00017549	.59218653
192.60	-57.6	-59.2	.03904	345.0	.00016218	.59234871
188.80	-58.5	-60.6	.03268	345.6	.00013906	.59248777
185.00	-59.9	-61.5	.02953	345.4	.00012061	.59260838
181.50	-60.8	-62.7	.02558	345.8	.00009841	.59270678
177.80	-61.7	-63.1	.02468	346.3	.00009488	.59280166
174.20	-62.5	-64.4	.02103	347.1	.00008394	.59288560
170.90	-63.5	-65.5	.01840	347.3	.00006637	.59295197
167.50	-64.5	-66.0	.01738	347.6	.00006206	.59301403
164.10	-65.1	-67.4	.01462	348.8	.00005551	.59306954
160.70	-65.6	-69.1	.01156	349.9	.00004540	.59311494
157.50	-65.6	-71.1	.00870	352.0	.00003307	.59314801
154.20	-65.9	-73.1	.00662	353.6	.00002579	.59317380
151.00	-66.4	-75.2	.00486	354.8	.00001875	.59319255
147.70	-66.7	-79.0	.00269	356.5	.00001271	.59320526
144.60	-67.3	-80.5	.00217	357.7	.00000769	.59321295
141.50	-67.6	-80.5	.00222	359.4	.00000694	.59321989
138.70	-67.6	-80.5	.00226	361.5	.00000639	.59322628
135.90	-67.9	-81.2	.00204	363.1	.00000614	.59323242
133.20	-68.5	-80.8	.00223	364.1	.00000589	.59323831
130.40	-69.4	-80.3	.00247	364.7	.00000672	.59324503
127.70	-71.0	-79.8	.00274	364.0	.00000717	.59325220
125.00	-72.0	-79.6	.00291	364.3	.00000776	.59325996
122.40	-74.2	-101.3	.00005	362.6	.00000392	.59326388
119.70	-74.6	-101.8	.00005	364.2	.00000013	.59326401
117.20	-76.1	-101.5	.00005	363.5	.00000012	.59326413
114.60	-77.4	-99.1	.00009	363.6	.00000019	.59326433
112.10	-78.2	-83.4	.00172	364.2	.00000231	.59326664
109.60	-78.7	-80.7	.00279	365.8	.00000575	.59327239
107.00	-79.6	-90.2	.00054	366.6	.00000441	.59327680
104.60	-80.1	-86.7	.00104	368.0	.00000192	.59327872
102.20	-80.6	-87.3	.00095	369.6	.00000243	.59328115
99.80	-81.0	-87.8	.00090	371.1	.00000226	.59328341
97.60	-82.0	-87.1	.00103	371.6	.00000216	.59328558
95.30	-83.1	-87.7	.00096	372.0	.00000234	.59328791
93.00	-83.1	-87.9	.00095	374.6	.00000224	.59329015
90.70	-81.5	-85.9	.00138	380.4	.00000273	.59329288

TRINIDAD, W.I. 11/17/64 1341Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
88.50	-80.6	-85.2	.00159	385.1	.00000332	.59329620
86.30	-78.7	-84.4	.00188	391.6	.00000389	.59330009
84.20	-76.5	-84.1	.00202	398.8	.00000417	.59330426
82.30	-74.9	-83.8	.00220	404.6	.00000410	.59330836
80.20	-73.8	-83.4	.00241	409.9	.00000493	.59331329
77.80	-72.4	-83.4	.00248	416.5	.00000598	.59331927
75.80	-72.0	-83.5	.00251	420.3	.00000508	.59332435
73.80	-71.3	-83.8	.00246	425.0	.00000507	.59332941
71.90	-71.0	-83.7	.00256	428.9	.00000486	.59333427
70.00	-70.7	-83.8	.00259	432.9	.00000499	.59333926
68.30	-70.4	-84.2	.00246	436.6	.00000437	.59334363
66.60	-69.4	-85.0	.00222	441.8	.00000404	.59334767
64.70	-68.2	-85.2	.00217	448.2	.00000425	.59335192
63.00	-67.6	-85.5	.00212	452.9	.00000371	.59335563
61.20	-66.2	-85.8	.00207	459.9	.00000384	.59335947
59.50	-65.9	-86.4	.00192	464.2	.00000346	.59336293
57.70	-65.3	-86.7	.00188	469.5	.00000349	.59336641
56.20	-65.1	-87.0	.00183	473.7	.00000283	.59336925
54.50	-64.8	-87.2	.00182	478.5	.00000316	.59337240
52.80	-64.0	-88.1	.00161	484.7	.00000297	.59337537
51.30	-63.7	-89.7	.00123	489.3	.00000216	.59337753
49.70	-63.5	-89.3	.00138	494.3	.00000212	.59337965
48.20	-63.2	-88.5	.00164	499.3	.00000229	.59338194
46.50	-63.0	-87.3	.00209	505.1	.00000322	.59338516
44.80	-62.5	-85.2	.00313	511.7	.00000453	.59338969
43.10	-62.0	-84.2	.00389	518.6	.00000609	.59339578
41.90	-61.3	-83.8	.00427	524.6	.00000499	.59340078
40.70	-60.8	-84.1	.00419	530.1	.00000517	.59340595
39.60	-60.3	-83.7	.00465	535.4	.00000496	.59341091
38.20	-60.1	-82.7	.00570	541.6	.00000739	.59341830
37.00	-59.9	-81.9	.00670	547.1	.00000758	.59342588
35.80	-59.6	-81.9	.00693	552.9	.00000834	.59343423
34.50	-59.4	-81.6	.00761	559.4	.00000963	.59344386
33.20	-58.9	-81.0	.00872	566.7	.00001082	.59345467
32.00	-58.5	-80.1	.01049	573.9	.00001176	.59346643
30.70	-57.4	-79.4	.01215	583.7	.00001501	.59348144
29.40	-56.4	-79.2	.01319	593.8	.00001681	.59349824
28.00	-55.3	-79.1	.01403	605.0	.00001943	.59351768
26.70	-54.1	-78.7	.01568	616.7	.00001970	.59353738
25.30	-53.2	-78.7	.01676	629.0	.00002316	.59356053
24.50	-51.7	-78.4	.01797	639.1	.00001417	.59357470
23.70	-50.6	-79.1	.01657	648.4	.00001410	.59358880
22.90	-49.2	-78.9	.01782	659.0	.00001404	.59360284
22.00	-48.0	-78.7	.01927	670.1	.00001702	.59361985
21.20	-46.8	-79.0	.01901	680.8	.00001562	.59363547
20.40	-45.6	-79.3	.01876	691.8	.00001541	.59365088
19.60	-44.7	-79.4	.01903	702.7	.00001542	.59366630
18.80	-43.6	-79.5	.01958	714.6	.00001575	.59368205
18.10	-42.3	-79.7	.01982	726.2	.00001407	.59369612
17.40	-41.1	-79.7	.02062	738.3	.00001444	.59371056
16.70	-40.8	-79.7	.02148	748.0	.00001502	.59372558
16.00	-40.7	-80.2	.02044	757.7	.00001496	.59374054
15.40	-40.5	-81.1	.01828	766.5	.00001185	.59375238
14.80	-40.4	-79.9	.02330	775.8	.00001273	.59376511
14.20	-40.2	-80.5	.02212	785.5	.00001389	.59377900

TRINIDAD,W.I. 11/17/64 1341Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
13.70	-39.9	-80.8	.02172	794.6	.00001118	.59379017
13.30	-39.6	-81.0	.02176	802.3	.00000887	.59379904
12.80	-39.4	-81.1	.02230	812.2	.00001124	.59381028
12.40	-39.1	-81.1	.02270	820.6	.00000918	.59381945

TRINIDAD, W.I. 11/20/64 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1011.90	27.5	21.7	16.38525	299.6		
998.30	26.9	21.7	16.61443	300.2	.22897643	.22897643
984.20	26.1	20.4	15.53443	300.6	.23127404	.46025047
969.60	25.5	20.4	15.77428	301.3	.23321703	.69346750
956.00	24.2	19.1	14.75439	301.2	.21183075	.90529825
944.00	23.0	16.8	12.85812	301.1	.16905554	1.07435378
930.50	21.9	16.8	13.04859	301.2	.17843835	1.25279213
917.50	21.2	16.8	13.23741	301.7	.17434517	1.42713730
903.50	20.1	15.7	12.51112	301.9	.18391728	1.61105458
890.00	19.4	16.8	13.65541	302.5	.18022788	1.79128246
876.50	18.7	13.7	11.29110	303.1	.17182474	1.96310720
864.00	18.0	12.7	10.73703	303.6	.14048497	2.10359217
850.00	17.3	11.8	10.27803	304.3	.15010700	2.25369917
836.00	16.6	10.0	9.29360	305.0	.13979684	2.39349601
821.50	15.8	7.6	8.01966	305.7	.12808232	2.52157833
807.00	15.0	7.6	8.16565	306.3	.11973782	2.64131615
792.00	14.2	6.2	7.51643	307.1	.12001547	2.76133162
776.50	13.2	6.9	8.05696	307.8	.12315644	2.88448806
760.00	12.4	4.8	7.09778	308.8	.12757769	3.01206575
744.00	11.6	4.1	6.92614	309.9	.11448053	3.12654628
729.00	10.7	3.5	6.74590	310.7	.10463254	3.23117882
714.00	9.8	2.2	6.30561	311.5	.09988363	3.33106245
700.00	8.8	3.5	7.02853	312.3	.09524350	3.42630595
685.80	7.8	2.2	6.56763	312.9	.09850246	3.52480841
672.00	6.9	-.1	5.67331	313.8	.08618587	3.61099428
658.00	5.7	.5	6.03190	314.3	.08360828	3.69460256
645.00	5.2	-2.2	4.95939	315.5	.07290110	3.76750366
630.00	4.6	-9.0	2.80854	316.9	.05944818	3.82695185
617.30	3.7	-8.3	3.06353	317.8	.03804849	3.86500034
605.20	2.2	-7.1	3.46649	317.8	.04031271	3.90531304
593.50	1.3	-11.8	2.32267	318.6	.03455760	3.93987064
581.80	.7	-16.6	1.53175	319.6	.02300847	3.96287911
570.00	-.3	-10.8	2.64881	320.4	.02516857	3.98804767
557.50	-1.2	-10.5	2.79213	321.3	.03469972	4.02274740
545.00	-2.3	-9.4	3.14254	322.1	.03784852	4.06059591
532.50	-3.5	-9.4	3.21669	322.8	.04055616	4.10115208
520.00	-4.9	-5.4	4.66794	323.4	.05028442	4.15143649
508.30	-6.2	-12.8	2.48536	323.9	.04270065	4.19413714
496.50	-7.2	-9.0	3.56804	324.8	.03644378	4.23058093
485.00	-8.1	-9.4	3.53352	325.9	.04166712	4.27224804
474.20	-9.2	-11.8	2.90975	326.7	.03550357	4.30775161
463.50	-10.1	-12.8	2.72664	327.7	.03076996	4.33852157
453.00	-11.0	-12.5	2.87330	328.8	.02999955	4.36852112
442.60	-12.0	-14.0	2.55360	329.7	.02879570	4.39731683
431.80	-13.0	-16.3	2.11917	330.7	.02574785	4.42306468
421.80	-14.3	-21.4	1.33446	331.3	.01762047	4.44068515
411.80	-15.5	-22.0	1.28343	332.0	.01335648	4.45404163
401.60	-16.6	-28.0	.72353	332.9	.01044428	4.46448591
391.20	-18.0	-27.8	.75574	333.6	.00784911	4.47233503
381.20	-19.4	-30.1	.61560	334.3	.00699657	4.47933160
372.10	-20.7	-35.1	.37123	334.9	.00458170	4.48391330
362.00	-22.0	-40.5	.20728	335.7	.00298111	4.48689441
352.00	-23.3	-44.5	.13542	336.7	.00174849	4.48864290
342.70	-24.6	-42.2	.18172	337.6	.00150478	4.49014768
333.60	-25.8	-39.6	.25056	338.4	.00200698	4.49215466
324.10	-26.6	-42.3	.19002	340.2	.00213544	4.49429010

TRINIDAD,W.I. 11/20/64 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
318.80	-29.1	-45.0	.14010	338.4	.00089267	4.49518277
314.60	-29.7	-46.4	.11982	338.8	.00055696	4.49573973
310.00	-30.4	-46.8	.11659	339.3	.00055481	4.49629454
305.60	-31.0	-45.4	.14004	339.8	.00057609	4.49687064
301.10	-31.7	-46.0	.13195	340.3	.00062446	4.49749510
296.80	-32.3	-47.0	.11927	340.7	.00055115	4.49804625
292.30	-33.4	-47.6	.11267	340.7	.00053251	4.49857876
288.00	-34.2	-47.6	.11435	341.0	.00049804	4.49907680
283.40	-35.1	-47.0	.12491	341.4	.00056154	4.49963833
279.00	-36.2	-45.9	.14389	341.3	.00060342	4.50024176
274.60	-37.0	-44.5	.17360	341.6	.00071272	4.50095448
270.30	-38.1	-44.2	.18225	341.5	.00078069	4.50173517
266.10	-39.3	-44.0	.18921	341.4	.00079599	4.50253116
261.60	-40.3	-43.5	.20339	341.6	.00090139	4.50343254
257.20	-41.2	-43.4	.20923	341.9	.00092629	4.50435883
253.00	-42.2	-44.1	.19681	342.0	.00087006	4.50522889
248.70	-43.3	-46.8	.14533	342.1	.00075060	4.50597949
244.20	-44.2	-49.3	.10897	342.5	.00058384	4.50656334
240.00	-45.4	-52.9	.07069	342.5	.00038496	4.50694829
236.00	-46.3	-52.4	.07689	342.7	.00030117	4.50724946
232.00	-47.3	-51.6	.08618	342.9	.00033279	4.50758225
228.00	-48.1	-54.2	.06325	343.3	.00030495	4.50788720
224.20	-49.2	-57.4	.04246	343.4	.00020495	4.50809215
220.30	-50.0	-56.4	.04930	343.7	.00018257	4.50827472
216.50	-50.8	-55.8	.05407	344.4	.00020041	4.50847512
213.80	-52.0	-55.7	.05528	343.6	.00015064	4.50862576
209.20	-52.6	-54.8	.06389	344.9	.00027968	4.50890544
205.30	-53.9	-54.3	.06957	344.7	.00026555	4.50917099
201.60	-54.7	-55.6	.05974	345.2	.00024410	4.50941509
198.00	-55.9	-56.5	.05381	345.1	.00020856	4.50962365
194.50	-56.9	-57.0	.05179	345.2	.00018857	4.50981222
190.80	-57.8	-57.8	.04717	345.8	.00018682	4.50999904
187.20	-58.6	-58.6	.04328	346.3	.00016613	4.51016517
183.80	-60.0	-59.8	.03753	345.9	.00014016	4.51030533
179.90	-60.7	-61.3	.03140	346.9	.00013715	4.51044248
176.60	-61.8	-62.1	.02853	346.8	.00010090	4.51054338
173.50	-62.8	-63.1	.02514	347.0	.00008488	4.51062825
170.40	-64.1	-63.9	.02301	346.7	.00007614	4.51070440
167.20	-65.1	-64.5	.02148	346.8	.00007263	4.51077703
164.00	-66.2	-65.2	.01985	346.9	.00006747	4.51084450
160.80	-67.0	-66.8	.01626	347.4	.00005895	4.51090345
157.70	-67.9	-68.8	.01231	347.9	.00004517	4.51094861
154.40	-69.1	-70.1	.01039	348.0	.00003821	4.51098682
151.00	-70.0	-71.6	.00853	348.6	.00003281	4.51101963
147.40	-71.3	-73.5	.00649	348.8	.00002758	4.51104721
144.70	-72.0	-73.6	.00653	349.5	.00001793	4.51106514
141.70	-72.3	-74.0	.00621	351.0	.00001951	4.51108465
138.80	-71.3	-77.3	.00378	354.8	.00001478	4.51109943
136.00	-71.7	-78.4	.00323	356.3	.00001000	4.51110943
133.20	-72.0	-78.8	.00312	357.8	.00000906	4.51111849
130.50	-72.3	-79.0	.00305	359.3	.00000848	4.51112697
127.70	-73.4	-80.0	.00265	359.7	.00000814	4.51113510
125.00	-74.5	-81.5	.00212	359.9	.00000656	4.51114166
122.20	-74.9	-83.8	.00147	361.5	.00000511	4.51114677
119.30	-74.5	-83.0	.00173	364.7	.00000472	4.51115149

TRINIDAD,W.I. 11/20/64 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
116.20	-74.5	-83.9	.00152	367.5	.00000513	4.51115662
100.20	-78.5	-86.8	.00107	375.5	.00002109	4.51117770
97.80	-78.5	-86.3	.00119	378.1	.00000274	4.51118045
95.60	-78.5	-85.8	.00134	380.6	.00000283	4.51118328
93.30	-79.0	-85.1	.00154	382.4	.00000338	4.51118666
91.00	-79.0	-86.2	.00130	385.2	.00000332	4.51118998
88.70	-78.5	-86.0	.00139	388.8	.00000314	4.51119313
86.50	-78.1	-88.1	.00097	392.5	.00000264	4.51119576
84.30	-77.3	-85.7	.00155	397.2	.00000283	4.51119860
82.20	-76.4	-85.3	.00169	401.7	.00000346	4.51120205
80.00	-75.2	-84.8	.00190	407.3	.00000402	4.51120608
77.90	-74.1	-83.2	.00256	412.7	.00000478	4.51121086
76.00	-72.3	-82.5	.00296	419.3	.00000533	4.51121619
74.10	-71.7	-82.6	.00298	423.8	.00000575	4.51122195
72.20	-71.0	-83.8	.00249	428.4	.00000529	4.51122724
70.30	-69.7	-85.1	.00205	434.4	.00000438	4.51123162
68.60	-68.5	-86.3	.00169	440.1	.00000323	4.51123485
66.90	-68.8	-85.8	.00192	442.6	.00000311	4.51123796
65.20	-68.8	-85.2	.00217	445.9	.00000353	4.51124150
63.50	-68.5	-85.4	.00214	449.9	.00000373	4.51124522
61.70	-68.5	-85.9	.00204	453.6	.00000383	4.51124905
60.00	-68.8	-86.1	.00201	456.6	.00000350	4.51125255
58.30	-68.2	-86.3	.00199	461.7	.00000346	4.51125601
47.70	-65.7	-88.7	.00161	495.0	.00001945	4.51127546
46.20	-65.1	-91.3	.00103	500.8	.00000201	4.51127747
44.50	-63.8	-90.8	.00116	509.4	.00000189	4.51127936
43.00	-62.6	-89.4	.00155	517.5	.00000207	4.51128143
41.60	-61.6	-88.9	.00176	524.8	.00000235	4.51128379
40.30	-60.0	-87.6	.00228	533.7	.00000267	4.51128645
38.90	-59.3	-87.2	.00258	540.8	.00000346	4.51128991
37.60	-58.8	-86.8	.00284	547.2	.00000359	4.51129350
36.40	-58.6	-86.7	.00300	552.9	.00000356	4.51129706
35.10	-58.0	-86.8	.00304	560.3	.00000399	4.51130106
33.90	-57.8	-87.2	.00296	566.5	.00000367	4.51130472
32.80	-57.1	-87.3	.00299	573.5	.00000334	4.51130806
31.70	-56.9	-86.2	.00373	579.7	.00000377	4.51131183
30.70	-56.5	-86.9	.00341	586.2	.00000364	4.51131546
29.60	-55.9	-86.1	.00408	594.0	.00000419	4.51131965
28.70	-55.7	-85.2	.00492	599.8	.00000413	4.51132378
27.60	-55.1	-85.0	.00532	608.2	.00000574	4.51132952
26.60	-54.7	-84.7	.00583	615.8	.00000568	4.51133519
25.70	-54.3	-84.6	.00615	623.0	.00000550	4.51134069
24.00	-53.0	-84.1	.00709	639.2	.00001147	4.51135217
23.10	-53.5	-84.0	.00750	644.5	.00000669	4.51135886
22.20	-52.0	-83.6	.00838	656.3	.00000729	4.51136614
21.30	-51.1	-83.3	.00920	666.9	.00000806	4.51137421
20.50	-50.2	-83.1	.00990	676.9	.00000779	4.51138200
19.60	-49.2	-83.0	.01053	688.9	.00000937	4.51139137
18.80	-48.3	-82.7	.01156	699.8	.00000902	4.51140039
18.00	-47.3	-82.5	.01248	711.7	.00000980	4.51141019
17.30	-46.8	-82.1	.01387	721.4	.00000940	4.51141959
16.50	-46.5	-81.9	.01503	732.3	.00001179	4.51143138
15.80	-46.0	-81.6	.01647	743.0	.00001125	4.51144263
15.10	-45.8	-81.1	.01866	753.2	.00001253	4.51145516
14.40	-45.7	-81.4	.01867	764.1	.00001332	4.51146848

TRINIDAD,W.I. 11/20/64 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
13.90	-45.2	-81.1	.02027	773.4	.00000992	4.51147841
13.40	-45.0	-80.9	.02203	782.1	.00001079	4.51148920
12.90	-44.4	-81.0	.02254	792.9	.00001137	4.51150057
12.40	-44.1	-80.9	.02381	803.0	.00001182	4.51151238
12.00	-43.8	-80.3	.02697	811.6	.00001036	4.51152274
11.60	-43.6	-80.3	.02790	820.1	.00001119	4.51153393
11.20	-43.3	-80.0	.03024	829.5	.00001186	4.51154579

TRINIDAD,W.I. 12/16/64 1405Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1013.00	30.1	13.4	9.58172	302.1		
1008.30	27.9	14.3	10.23921	300.4	.04752961	.04752961
1000.80	24.9	14.3	10.31722	298.0	.07865949	.12618910
992.00	23.5	22.4	17.44181	297.4	.12463185	.25082095
973.00	22.6	22.4	17.79214	298.1	.34155226	.59237321
960.00	21.6	25.3	21.66336	298.3	.26169360	.85406680
944.20	20.5	21.1	16.91502	298.6	.31093770	1.16505450
928.10	19.5	22.4	18.67875	298.9	.29237621	1.45743071
912.50	18.0	16.4	12.94799	298.9	.25172198	1.70915268
897.30	17.5	12.5	10.18282	299.8	.17938106	1.88853374
881.20	17.3	11.6	9.76509	301.2	.16385716	2.05239090
866.00	15.8	13.4	11.23757	301.1	.16287708	2.21526799
850.00	14.5	10.7	9.57615	301.3	.16990718	2.38517517
835.00	13.3	9.1	8.73789	301.6	.14015788	2.52533305
820.00	13.0	8.3	8.43566	302.8	.13142970	2.65676275
806.00	13.0	3.0	5.88600	304.3	.10229717	2.75905992
792.00	12.5	-4.6	3.27842	305.3	.06545985	2.82451977
777.80	11.5	-6.3	2.89592	305.9	.04473224	2.86925201
764.00	11.4	-10.6	2.01184	307.3	.03455448	2.90380649
750.00	11.1	-13.1	1.63603	308.6	.02605613	2.92986262
736.00	10.4	-12.2	1.81011	309.6	.02461523	2.95447785
721.00	9.8	-15.1	1.41974	310.7	.02471815	2.97919600
706.80	9.2	-17.9	1.11457	311.8	.01836072	2.99755672
693.00	8.6	-19.9	.93448	312.9	.01442693	3.01198365
679.50	8.3	-19.3	1.01525	314.3	.01342925	3.02541290
666.80	7.4	-22.0	.79310	315.0	.01171730	3.03713021
655.00	6.8	-21.6	.83974	315.9	.00983028	3.04696049
644.00	5.9	-27.0	.49746	316.4	.00750464	3.05446513
634.00	5.6	-23.0	.75776	317.5	.00640416	3.06086929
620.30	4.1	-25.0	.63353	317.8	.00972483	3.07059412
607.40	3.0	-26.7	.54516	318.4	.00775766	3.07835178
594.00	1.6	-27.4	.52202	318.8	.00729597	3.08564775
581.20	.8	-24.3	.72600	319.9	.00815031	3.09379806
569.30	.1	-30.9	.37641	320.9	.00669318	3.10049124
558.00	-.6	-36.3	.21574	322.0	.00341392	3.10390516
546.90	-1.7	-35.9	.23148	322.5	.00253274	3.10643789
537.00	-2.7	-34.7	.26796	323.1	.00252268	3.10896057
527.00	-4.1	-31.8	.37319	323.1	.00327112	3.11223169
517.00	-5.3	-33.2	.32644	323.4	.00356950	3.11580119
508.00	-6.2	-35.9	.24922	324.0	.00264332	3.11844450
496.40	-7.2	-38.4	.19276	324.9	.00261575	3.12106025
485.60	-8.4	-40.7	.15145	325.5	.00189665	3.12295690
475.00	-9.6	-42.0	.13425	326.0	.00154512	3.12450202
465.00	-10.5	-43.3	.11687	326.9	.00128123	3.12578325
455.00	-11.8	-44.6	.10331	327.4	.00112337	3.12690662
445.80	-12.5	-43.5	.11939	328.3	.00104529	3.12795191
436.00	-13.6	-46.4	.08721	329.0	.00103299	3.12898490
426.00	-14.6	-46.7	.08580	329.9	.00088273	3.12986763
416.30	-15.7	-48.5	.07086	330.7	.00077532	3.13064295
406.80	-16.5	-51.0	.05304	331.9	.00060056	3.13124351
397.40	-17.5	-52.6	.04468	332.8	.00046867	3.13171218
388.20	-18.6	-51.4	.05305	333.6	.00045875	3.13217093
379.30	-19.7	-48.8	.07483	334.4	.00058067	3.13275160
370.60	-20.5	-49.8	.06769	335.4	.00063257	3.13338417
361.60	-21.4	-48.5	.08158	336.7	.00068541	3.13406958
352.80	-22.5	-45.9	.11445	337.5	.00088014	3.13494971

TRINIDAD,W.I. 12/16/64 1405Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
342.00	-24.4	-47.6	.09593	338.0	.00115922	3.13610893
336.40	-25.5	-47.7	.09660	338.1	.00055009	3.13665903
330.90	-26.5	-47.2	.10412	338.3	.00056323	3.13722226
325.60	-27.4	-46.2	.11917	338.6	.00060378	3.13782604
320.30	-28.4	-44.8	.14232	338.8	.00070707	3.13853312
315.50	-29.6	-43.6	.16699	338.7	.00075747	3.13929059
311.20	-30.7	-43.1	.18027	338.4	.00076184	3.14005242
306.00	-31.7	-43.2	.18146	338.7	.00095969	3.14101212
301.00	-32.7	-42.9	.19036	338.8	.00094850	3.14196062
296.00	-33.8	-42.9	.19357	339.0	.00097941	3.14294003
291.00	-34.7	-43.2	.19082	339.3	.00098057	3.14392060
286.20	-35.8	-43.3	.19195	339.4	.00093739	3.14485799
281.70	-36.8	-43.3	.19502	339.5	.00088845	3.14574644
277.30	-37.6	-43.9	.18414	339.8	.00085117	3.14659761
273.00	-38.4	-46.0	.14500	340.1	.00072208	3.14731969
268.80	-39.6	-48.1	.11518	340.0	.00055751	3.14787720
264.30	-40.3	-49.1	.10337	340.6	.00050177	3.14837897
260.20	-41.5	-50.1	.09281	340.4	.00041039	3.14878936
255.70	-42.6	-50.7	.08760	340.3	.00041421	3.14920357
251.30	-43.4	-51.8	.07824	340.9	.00037228	3.14957584
247.10	-44.3	-52.9	.06927	341.2	.00031608	3.14989193
242.70	-45.4	-53.9	.06204	341.3	.00029477	3.15018670
238.40	-46.2	-55.0	.05457	341.8	.00025582	3.15044253
234.20	-47.2	-55.4	.05259	342.1	.00022963	3.15067215
230.00	-48.0	-56.0	.04940	342.6	.00021854	3.15089069
225.70	-49.0	-56.7	.04645	342.9	.00021026	3.15110095
221.80	-50.4	-55.8	.05260	342.5	.00019707	3.15129802
217.80	-50.7	-56.3	.05034	343.8	.00021006	3.15150808
213.70	-50.9	-58.7	.03747	345.4	.00018367	3.15169175
210.00	-51.5	-60.2	.03124	346.3	.00012970	3.15182145
206.30	-52.6	-60.7	.02957	346.3	.00011480	3.15193625
202.60	-53.3	-61.6	.02673	346.9	.00010628	3.15204252
199.00	-54.4	-62.4	.02436	346.9	.00009382	3.15213634
195.40	-55.2	-63.0	.02280	347.5	.00008661	3.15222295
191.80	-56.4	-64.2	.01960	347.4	.00007787	3.15230082
188.20	-57.4	-64.3	.01979	347.6	.00007233	3.15237315
184.60	-58.5	-64.6	.01923	347.9	.00007166	3.15244481
181.00	-59.6	-64.8	.01906	348.0	.00007032	3.15251513
177.50	-61.0	-65.3	.01816	347.8	.00006644	3.15258157
174.00	-62.1	-65.9	.01696	347.8	.00006272	3.15264429
170.70	-63.1	-66.7	.01536	348.1	.00005440	3.15269870
167.60	-64.1	-67.2	.01458	348.3	.00004734	3.15274604
164.50	-65.1	-68.1	.01315	348.4	.00004384	3.15278988
161.30	-66.2	-69.5	.01087	348.6	.00003920	3.15282908
158.20	-67.0	-70.1	.01017	349.1	.00003327	3.15286236
155.00	-68.2	-69.6	.01108	349.2	.00003468	3.15289703
151.60	-69.1	-71.3	.00880	349.9	.00003447	3.15293150
148.50	-69.7	-72.2	.00783	350.9	.00002630	3.15295780
145.30	-70.6	-72.4	.00782	351.5	.00002554	3.15298334
141.80	-71.6	-73.3	.00695	352.2	.00002636	3.15300970
139.40	-72.9	-73.1	.00733	351.6	.00001748	3.15302718
135.80	-73.6	-72.6	.00808	353.0	.00002830	3.15305547
132.40	-74.7	-72.8	.00809	353.6	.00002804	3.15308352
129.20	-75.9	-74.9	.00596	354.0	.00002293	3.15310645
126.10	-76.7	-78.5	.00343	355.0	.00001484	3.15312129

TRINIDAD, W.I. 12/16/64 1405Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
123.20	-77.1	-79.7	.00292	356.7	.00000939	3.15313068
120.40	-77.5	-81.1	.00234	358.3	.00000751	3.15313819
117.60	-78.3	-79.5	.00316	359.1	.00000785	3.15314604
115.00	-78.3	-76.4	.00528	361.4	.00001119	3.15315723
113.20	-78.3	-81.4	.00237	363.1	.00000702	3.15316425
109.70	-78.8	-82.2	.00216	365.5	.00000809	3.15317234
106.60	-78.8	-81.1	.00265	368.5	.00000760	3.15317994
104.00	-79.2	-81.1	.00271	370.3	.00000711	3.15318705
101.40	-78.8	-82.3	.00230	373.8	.00000665	3.15319370
98.80	-78.8	-82.4	.00232	376.6	.00000611	3.15319981
96.40	-78.8	-80.4	.00329	379.3	.00000685	3.15320666
94.00	-78.8	-77.3	.00563	382.0	.00001091	3.15321757
91.60	-78.8	-77.2	.00586	384.8	.00001407	3.15323164
89.20	-78.8	-80.0	.00379	387.8	.00001180	3.15324344
86.80	-78.8	-82.5	.00259	390.8	.00000781	3.15325125
84.50	-78.8	-82.6	.00261	393.8	.00000609	3.15325734
82.20	-77.1	-81.3	.00332	400.4	.00000696	3.15326430
80.00	-75.9	-79.5	.00464	406.0	.00000893	3.15327322
77.80	-75.1	-79.7	.00463	410.8	.00001040	3.15328363
75.50	-73.6	-81.2	.00367	417.4	.00000973	3.15329336
73.50	-72.6	-81.5	.00359	422.8	.00000741	3.15330076
71.40	-71.6	-82.2	.00332	428.5	.00000739	3.15330815
69.30	-71.6	-82.1	.00348	432.2	.00000729	3.15331544
67.20	-71.6	-82.9	.00311	436.0	.00000706	3.15332250
65.20	-71.6	-83.3	.00303	439.8	.00000626	3.15332876
63.50	-71.6	-84.2	.00267	443.1	.00000493	3.15333369
61.30	-69.4	-85.0	.00240	452.5	.00000568	3.15333937
59.40	-66.8	-85.3	.00232	462.4	.00000456	3.15334393
57.50	-65.1	-84.5	.00277	470.4	.00000493	3.15334886
55.70	-63.8	-84.3	.00298	477.7	.00000528	3.15335414
53.90	-62.9	-85.7	.00240	484.5	.00000493	3.15335907
52.20	-61.9	-86.1	.00232	491.2	.00000408	3.15336315
51.50	-61.2	-85.5	.00262	494.7	.00000176	3.15336491
48.80	-61.2	-86.3	.00237	502.4	.00000687	3.15337178
47.20	-61.2	-87.5	.00199	507.2	.00000355	3.15337533
45.70	-61.2	-88.2	.00181	511.9	.00000291	3.15337823
44.20	-61.2	-87.5	.00212	516.8	.00000300	3.15338123
42.80	-61.2	-87.7	.00214	521.6	.00000304	3.15338427
41.60	-61.0	-88.5	.00189	526.4	.00000246	3.15338673
40.30	-61.0	-88.8	.00185	531.2	.00000247	3.15338920
39.10	-60.7	-88.2	.00212	536.4	.00000243	3.15339163
37.50	-60.0	-87.0	.00275	544.6	.00000396	3.15339559
36.20	-58.1	-84.6	.00432	555.1	.00000468	3.15340027
35.00	-57.2	-82.3	.00666	562.7	.00000671	3.15340698
33.70	-56.4	-81.3	.00810	571.0	.00000978	3.15341675
32.40	-55.4	-82.8	.00657	580.1	.00000972	3.15342647
31.20	-54.6	-80.4	.01016	588.5	.00001024	3.15343671
29.90	-54.1	-78.8	.01382	597.3	.00001590	3.15345261
28.70	-52.4	-77.0	.01923	608.9	.00002024	3.15347284
27.40	-51.6	-76.8	.02100	619.1	.00002667	3.15349951
26.20	-50.9	-74.4	.03169	629.1	.00003225	3.15353176
25.10	-50.2	-72.8	.04268	638.9	.00004174	3.15357350
23.90	-49.5	-71.3	.05581	649.9	.00006029	3.15363379
23.00	-49.5	-69.5	.07626	657.1	.00006063	3.15369442
22.10	-49.7	-69.6	.07769	664.1	.00007069	3.15376511

TRINIDAD,W.I. 12/16/64 1405Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
21.20	-49.4	-70.4	.07268	673.1	.00006904	3.15383415
20.30	-49.0	-71.3	.06570	682.5	.00006354	3.15389769
19.50	-48.7	-72.2	.06032	691.4	.00005144	3.15394913
18.60	-48.0	-73.0	.05561	702.9	.00005323	3.15400235
17.80	-47.7	-74.0	.04964	712.8	.00004295	3.15404530
17.10	-47.3	-74.5	.04795	722.1	.00003484	3.15408014
16.40	-47.0	-75.2	.04459	731.8	.00003304	3.15411317
15.60	-46.1	-75.8	.04278	745.6	.00003566	3.15414883
14.90	-44.0	-76.5	.04023	762.2	.00002964	3.15417847
14.20	-44.0	-77.5	.03624	772.7	.00002730	3.15420577
13.60	-43.9	-78.5	.03179	782.8	.00002082	3.15422659
12.90	-43.9	-79.6	.02834	794.8	.00002147	3.15424806
12.60	-43.7	-80.9	.02316	800.7	.00000788	3.15425594
12.30	-43.7	-81.2	.02255	806.2	.00000699	3.15426293
12.00	-43.6	-81.5	.02196	812.4	.00000681	3.15426974
11.70	-43.6	-82.2	.02029	818.3	.00000645	3.15427619
11.50	-43.4	-82.8	.01851	822.9	.00000395	3.15428014
11.25	-43.4	-82.5	.01999	828.1	.00000490	3.15428504
11.00	-43.3	-83.1	.01830	834.0	.00000487	3.15428992

TRINIDAD, W.I. 2/19/65 1425Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1015.20	23.6	20.6	15.24083	295.5		
1003.80	23.6	20.6	15.41821	296.5	.17832232	.17832232
988.00	24.4	19.1	14.21490	298.6	.23887818	.41720049
974.00	21.2	22.2	17.55731	296.6	.22694345	.64414394
960.50	21.4	22.2	17.81115	298.0	.24360834	.88775228
948.00	20.5	22.2	18.05282	298.2	.22872338	1.11647566
935.00	19.3	20.6	16.58298	298.1	.22972630	1.34620196
922.00	18.9	19.1	15.25741	299.0	.21118541	1.55738737
911.00	18.4	17.7	14.12071	299.5	.16487658	1.72226395
900.00	17.7	17.7	14.29727	299.8	.15948804	1.88175198
889.50	17.2	15.0	12.17203	300.3	.14179923	2.02355121
879.00	16.7	13.8	11.39119	300.8	.12623103	2.14978224
868.50	16.1	12.7	10.67079	301.1	.11818874	2.26797098
857.00	15.9	11.6	10.06426	302.1	.12165926	2.38963024
846.00	15.4	6.7	7.31801	302.7	.09755316	2.48718341
833.00	14.4	6.7	7.43358	303.0	.09784175	2.58502516
820.00	13.9	5.0	6.69399	303.9	.09370287	2.67872803
807.50	13.0	5.0	6.79874	304.2	.08605023	2.76477826
794.00	12.0	2.0	5.56866	304.6	.08518326	2.84996152
781.00	10.8	3.5	6.29156	304.7	.07866439	2.92862591
767.50	9.6	5.0	7.15715	304.9	.09263107	3.02125698
754.00	8.4	5.0	7.28680	305.2	.09948598	3.12074296
743.00	7.5	.6	5.38470	305.5	.07111526	3.19185822
733.00	7.8	-2.0	4.43298	307.0	.05008997	3.24194819
722.00	8.1	-2.5	4.28676	308.7	.04893711	3.29088530
711.00	8.5	-9.2	2.45762	310.5	.03785098	3.32873628
700.00	9.1	2.0	6.32405	312.6	.04928468	3.37802096
688.50	9.3	-23.7	.65071	314.2	.04092316	3.41894412
678.00	8.4	-22.7	.72658	314.6	.00737830	3.42632242
667.00	7.8	-22.2	.77511	315.4	.00842780	3.43475021
656.50	6.9	-25.5	.57039	315.8	.00720797	3.44195819
645.00	6.3	-25.3	.59313	316.8	.00682674	3.44878493
634.00	5.2	-25.9	.56528	317.0	.00650127	3.45528620
623.00	4.6	-28.9	.42352	317.9	.00554937	3.46083558
611.50	3.7	-30.8	.35738	318.7	.00458178	3.46541736
600.00	2.7	-27.6	.50572	319.3	.00506407	3.47048143
588.00	2.0	-24.2	.72788	320.3	.00755262	3.47803405
576.00	1.1	-28.7	.46725	321.0	.00731713	3.48535118
564.00	.4	-32.3	.33007	322.2	.00488152	3.49023269
552.00	-1.0	-32.1	.34329	322.5	.00412260	3.49435529
539.00	-1.8	-31.3	.38422	323.8	.00482532	3.49918061
529.30	-3.5	-31.1	.39822	323.4	.00387228	3.50305289
519.40	-5.0	-28.9	.50806	323.4	.00457764	3.50763053
512.10	-5.8	-31.3	.40442	323.7	.00339851	3.51102903
505.00	-6.4	-33.9	.31106	324.2	.00259174	3.51362078
498.20	-7.2	-35.9	.25194	324.5	.00195323	3.51557401
491.80	-7.9	-37.3	.21914	324.9	.00153819	3.51711220
485.00	-8.6	-38.9	.18644	325.3	.00140710	3.51851930
479.00	-9.4	-39.9	.16875	325.5	.00108731	3.51960661
473.00	-9.9	-40.7	.15519	326.0	.00099164	3.52059825
467.20	-10.4	-41.4	.14499	326.5	.00088827	3.52148652
461.40	-11.2	-42.0	.13743	326.8	.00083575	3.52232227
456.00	-12.1	-42.0	.13906	326.7	.00076176	3.52308403
451.00	-12.2	-41.1	.15637	327.6	.00075364	3.52383767
448.20	-12.7	-37.3	.24047	327.6	.00056690	3.52440457
440.00	-13.3	-30.9	.48802	328.5	.00304773	3.52745230

TRINIDAD,W.I. 2/19/65 1425Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
434.00	-14.0	-26.1	.80900	329.0	.00760324	3.53505555
428.20	-14.9	-24.8	.93427	329.1	.00515862	3.54021417
422.80	-15.9	-24.8	.94622	329.0	.00518090	3.54539506
417.10	-16.8	-23.7	1.07485	329.2	.00587755	3.55127262
411.60	-17.8	-23.5	1.11539	329.1	.00614604	3.55741866
406.00	-18.5	-23.2	1.15806	329.4	.00649555	3.56391421
400.50	-19.3	-23.2	1.17399	329.7	.00654399	3.57045820
395.00	-20.0	-23.5	1.16235	330.1	.00655605	3.57701425
389.40	-20.5	-25.9	.92089	330.8	.00595209	3.58296634
384.10	-21.0	-28.0	.75857	331.4	.00454135	3.58750769
378.80	-21.5	-30.6	.58798	332.0	.00364116	3.59114885
373.70	-22.6	-31.6	.53451	332.0	.00292076	3.59406962
366.40	-23.2	-31.9	.52629	333.0	.00395091	3.59802052
361.20	-24.0	-32.3	.51554	333.4	.00276402	3.60078454
356.10	-24.6	-34.3	.41991	333.9	.00243407	3.60321862
351.00	-24.9	-35.9	.35765	334.9	.00202325	3.60524186
345.80	-25.1	-36.6	.33612	336.0	.00184061	3.60708247
340.60	-25.6	-47.7	.09506	336.7	.00114393	3.60822640
335.40	-25.9	-46.4	.11361	337.9	.00055359	3.60878000
330.30	-26.1	-46.5	.11404	339.0	.00059234	3.60937233
325.10	-26.5	-48.7	.08788	340.0	.00053568	3.60990801
320.00	-27.6	-48.6	.09130	340.1	.00046623	3.61037424
315.00	-28.3	-48.2	.09708	340.5	.00048056	3.61085480
309.50	-28.9	-52.3	.05908	341.5	.00043820	3.61129300
304.20	-29.8	-52.2	.06140	341.9	.00032577	3.61161877
300.00	-30.5	-51.8	.06495	342.3	.00027072	3.61188950
295.50	-31.4	-50.5	.07749	342.5	.00032704	3.61221653
291.20	-32.2	-49.4	.09073	342.8	.00036906	3.61258559
286.90	-33.2	-50.0	.08524	342.9	.00038606	3.61297165
282.20	-34.3	-50.4	.08205	342.9	.00040115	3.61337280
277.80	-35.4	-51.8	.07014	342.9	.00034164	3.61371444
273.20	-36.2	-52.5	.06552	343.3	.00031836	3.61403280
268.70	-37.4	-52.7	.06523	343.3	.00030018	3.61433299
264.00	-38.7	-52.8	.06571	343.1	.00031400	3.61464699
259.50	-39.7	-53.1	.06409	343.2	.00029801	3.61494499
255.00	-40.7	-54.1	.05758	343.4	.00027935	3.61522435
251.00	-42.0	-55.3	.05016	343.2	.00021988	3.61544423
247.30	-42.9	-56.6	.04288	343.2	.00017563	3.61561985
243.80	-43.8	-57.0	.04095	343.2	.00014968	3.61576954
239.80	-44.8	-58.5	.03446	343.4	.00015388	3.61592342
235.90	-45.9	-59.6	.03021	343.3	.00012867	3.61605209
231.80	-46.9	-60.4	.02732	343.5	.00012034	3.61617243
227.60	-48.1	-59.8	.03040	343.5	.00012368	3.61629611
223.30	-49.2	-60.3	.02892	343.7	.00013013	3.61642624
219.00	-49.9	-60.4	.02892	344.5	.00012690	3.61655314
214.00	-51.2	-60.9	.02762	344.8	.00014424	3.61669739
212.00	-51.9	-61.2	.02708	344.6	.00005582	3.61675321
208.00	-53.1	-62.2	.02382	344.7	.00010388	3.61685708
204.10	-54.1	-64.3	.01807	345.0	.00008333	3.61694041
200.40	-55.3	-65.5	.01555	344.9	.00006345	3.61700386
196.70	-56.1	-66.4	.01392	345.4	.00005561	3.61705947
193.00	-57.2	-68.0	.01125	345.6	.00004750	3.61710697
189.40	-58.0	-68.6	.01057	346.0	.00004007	3.61714704
184.90	-59.2	-68.8	.01050	346.6	.00004837	3.61719541
182.60	-60.1	-68.9	.01042	346.3	.00002454	3.61721995

TRINIDAD,W.I. 2/19/65 1425Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
179.20	-60.8	-69.0	.01050	347.0	.00003628	3.61725624
176.20	-62.0	-69.0	.01068	346.7	.00003242	3.61728866
173.40	-63.0	-69.0	.01086	346.6	.00003076	3.61731942
170.20	-64.1	-69.4	.01050	346.8	.00003487	3.61735429
166.60	-64.6	-70.0	.00978	348.0	.00003725	3.61739154
163.20	-65.4	-71.2	.00835	348.7	.00003144	3.61742298
159.80	-66.0	-71.8	.00775	349.8	.00002791	3.61745089
156.40	-66.9	-72.4	.00726	350.5	.00002603	3.61747693
153.20	-67.5	-72.4	.00741	351.6	.00002395	3.61750087
150.00	-68.1	-72.1	.00791	352.7	.00002500	3.61752588
146.90	-68.7	-71.7	.00861	353.7	.00002612	3.61755200
143.80	-69.9	-72.1	.00825	353.7	.00002666	3.61757866
140.70	-70.6	-73.1	.00724	354.7	.00002448	3.61760314
137.70	-71.3	-74.0	.00647	355.7	.00002097	3.61762410
134.60	-72.0	-74.5	.00612	356.8	.00001989	3.61764400
131.80	-73.0	-74.6	.00611	357.1	.00001745	3.61766145
128.90	-73.8	-75.1	.00583	358.0	.00001764	3.61767909
126.00	-74.9	-75.9	.00525	358.3	.00001638	3.61769547
123.50	-75.7	-76.8	.00464	358.9	.00001261	3.61770807
121.00	-77.4	-77.5	.00424	357.9	.00001132	3.61771940
118.40	-78.3	-77.9	.00408	358.5	.00001103	3.61773042
116.00	-78.8	-78.1	.00401	359.8	.00000989	3.61774032
113.70	-79.2	-78.9	.00356	361.0	.00000887	3.61774918
111.40	-79.7	-80.4	.00286	362.2	.00000753	3.61775671
109.20	-80.2	-81.3	.00251	363.3	.00000602	3.61776273
106.60	-80.7	-81.8	.00236	364.9	.00000645	3.61776918
104.30	-81.2	-82.3	.00221	366.2	.00000535	3.61777453
102.10	-81.2	-82.4	.00223	368.5	.00000498	3.61777951
99.80	-81.2	-82.8	.00215	370.9	.00000513	3.61778463
97.50	-81.7	-83.6	.00192	372.4	.00000477	3.61778940
95.30	-81.7	-84.4	.00170	374.8	.00000405	3.61779346
93.00	-82.2	-84.5	.00172	376.4	.00000401	3.61779746
90.80	-82.2	-84.9	.00165	379.0	.00000377	3.61780123
88.60	-81.2	-85.0	.00167	383.7	.00000371	3.61780494
86.70	-80.7	-85.5	.00154	387.1	.00000310	3.61780804
84.70	-79.7	-85.5	.00158	391.7	.00000317	3.61781122
82.70	-77.9	-85.2	.00170	398.1	.00000334	3.61781456
80.70	-76.1	-85.0	.00183	404.4	.00000359	3.61781815
78.80	-74.9	-84.9	.00190	409.7	.00000361	3.61782175
76.90	-74.5	-84.1	.00222	413.3	.00000398	3.61782573
74.70	-74.2	-83.0	.00274	417.6	.00000556	3.61783129
72.80	-73.8	-82.5	.00308	421.5	.00000563	3.61783692
70.80	-72.3	-82.8	.00303	428.0	.00000621	3.61784314
68.80	-70.6	-83.2	.00289	435.2	.00000603	3.61784917
66.80	-69.3	-83.4	.00289	441.7	.00000589	3.61785506
65.00	-68.7	-83.9	.00270	446.5	.00000513	3.61786018
63.00	-68.4	-84.4	.00258	451.2	.00000538	3.61786556
61.20	-67.5	-84.5	.00261	457.0	.00000477	3.61787033
59.50	-67.2	-84.5	.00269	461.3	.00000459	3.61787492
57.60	-67.5	-84.9	.00260	465.0	.00000513	3.61788005
55.90	-66.9	-84.5	.00286	470.3	.00000474	3.61788478
54.20	-66.0	-84.4	.00300	476.4	.00000508	3.61788987
52.60	-65.7	-84.0	.00329	481.2	.00000513	3.61789499
50.90	-64.6	-85.3	.00271	488.3	.00000520	3.61790019
49.40	-63.6	-86.9	.00212	495.0	.00000370	3.61790389

TRINIDAD,W.I. 2/19/65 1425Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
47.80	-62.8	-88.5	.00166	501.5	.00000308	3.61790697
46.40	-62.0	-89.7	.00138	507.6	.00000216	3.61790913
45.00	-62.0	-91.3	.00105	512.1	.00000173	3.61791086
43.80	-62.0	-91.4	.00106	516.1	.00000128	3.61791214
42.50	-61.8	-89.6	.00153	521.1	.00000171	3.61791386
41.30	-61.1	-90.4	.00136	527.2	.00000177	3.61791563
40.00	-60.6	-88.6	.00195	533.3	.00000219	3.61791782
38.70	-59.6	-88.5	.00205	540.7	.00000265	3.61792047
37.50	-58.5	-87.4	.00256	548.5	.00000282	3.61792329
36.20	-57.2	-87.9	.00241	557.5	.00000329	3.61792658
35.00	-55.9	-88.4	.00231	566.2	.00000289	3.61792947
33.80	-55.1	-88.4	.00240	574.0	.00000288	3.61793235
32.50	-53.7	-88.7	.00235	584.2	.00000314	3.61793549
31.40	-53.5	-88.9	.00234	590.5	.00000262	3.61793812
30.10	-53.7	-90.0	.00199	597.2	.00000286	3.61794098

TRINIDAD,W.I. 3/25/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1018.00	27.1	13.3	9.46674	298.7		
1007.00	26.1	15.7	11.19372	298.7	.11595106	.11595106
994.50	25.1	17.0	12.34716	298.8	.15013252	.26608358
981.00	24.2	17.0	12.52050	299.0	.17128164	.43736522
967.00	23.1	14.5	10.78545	299.1	.16647036	.60383558
953.00	21.8	17.0	12.89599	299.0	.16915242	.77298801
938.00	20.3	15.7	12.03306	298.9	.19078279	.96377079
922.00	19.4	13.3	10.46902	299.5	.18368974	1.14746054
904.00	17.9	12.2	9.90263	299.6	.18708582	1.33454636
887.00	17.7	13.3	10.88935	301.0	.18033785	1.51488420
873.00	16.0	10.1	8.91983	300.6	.14149356	1.65637776
860.50	15.0	13.3	11.23075	300.8	.12851085	1.78488861
848.00	14.4	13.3	11.39933	301.4	.14432395	1.92921256
836.00	13.7	9.1	8.73444	302.0	.12326747	2.05248003
823.00	13.2	10.1	9.46999	302.8	.12074314	2.17322317
811.00	12.8	7.3	7.91513	303.6	.10643905	2.27966222
799.00	11.8	9.1	9.14486	303.9	.10444844	2.38411066
787.00	11.2	7.3	8.15967	304.5	.10594563	2.49005629
775.00	10.6	9.1	9.43235	305.2	.10770577	2.59776206
762.00	10.1	7.3	8.43100	306.2	.11848092	2.71624298
748.00	9.4	5.6	7.62569	307.0	.11469023	2.83093321
733.00	8.6	.4	5.37571	307.9	.09950012	2.93043333
719.00	7.7	3.2	6.71395	308.6	.08635437	3.01678771
706.00	6.8	4.0	7.22469	309.3	.09244980	3.10923751
692.00	6.1	2.5	6.62719	310.2	.09894158	3.20817909
671.00	5.8	-.3	5.58647	312.7	.13086003	3.33903912
667.00	5.7	-.9	5.33663	313.0	.02229193	3.36133105
655.00	5.7	-.9	5.43525	314.7	.06595001	3.42728105
644.00	5.5	-30.1	.36242	316.0	.03253783	3.45981888
635.00	5.1	-37.9	.15831	316.8	.00239110	3.46220998
623.00	4.4	-39.6	.13437	317.7	.00179191	3.46400189
610.00	3.2	-40.4	.12480	318.3	.00171901	3.46572091
598.00	2.3	-41.9	.10729	319.0	.00142099	3.46714190
587.00	1.2	-40.8	.12459	319.4	.00130135	3.46844324
576.00	.3	-39.9	.13956	320.2	.00148246	3.46992570
564.00	-.8	-40.4	.13499	320.8	.00168088	3.47160658
556.00	-1.4	-41.9	.11540	321.3	.00102197	3.47262855
546.00	-2.0	-35.9	.23006	322.4	.00176249	3.47439104
538.00	-2.8	-33.9	.29142	322.8	.00212844	3.47651948
528.20	-3.6	-36.5	.22385	323.5	.00257632	3.47909580
519.00	-4.4	-41.1	.13548	324.2	.00168668	3.48078248
506.00	-5.3	-41.3	.13531	325.4	.00179605	3.48257853
500.00	-6.1	-42.0	.12672	325.6	.00080213	3.48338066
494.00	-7.1	-42.6	.12033	325.4	.00075628	3.48413694
487.40	-8.2	-43.2	.11309	325.4	.00078599	3.48492293
481.00	-9.2	-44.4	.10014	325.4	.00069626	3.48561919
474.40	-9.8	-45.2	.09225	325.8	.00064784	3.48626703
467.70	-10.5	-46.2	.08321	326.4	.00059977	3.48686680
460.90	-10.7	-46.9	.07701	327.4	.00055587	3.48742267
453.80	-11.4	-45.3	.09528	328.1	.00062412	3.48804680
447.20	-12.1	-46.4	.08504	328.5	.00060721	3.48865400
440.60	-13.0	-49.1	.06233	328.8	.00049627	3.48915027
434.20	-13.6	-46.8	.08363	329.4	.00047661	3.48962688
428.00	-14.4	-47.3	.07927	329.8	.00051527	3.49014215
421.90	-15.2	-44.9	.10751	330.1	.00058128	3.49072343
415.90	-15.9	-44.3	.11720	330.5	.00068790	3.49141133

TRINIDAD,W.I. 3/25/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
410.00	-16.8	-44.8	.11194	330.7	.00068974	3.49210107
404.20	-17.4	-45.1	.10953	331.3	.00065535	3.49275643
398.90	-18.3	-45.8	.10220	331.4	.00057255	3.49332897
393.40	-19.3	-46.6	.09444	331.4	.00055179	3.49388076
388.20	-19.5	-48.1	.07988	332.3	.00046247	3.49434324
383.40	-19.9	-49.6	.06714	333.0	.00036004	3.49470328
379.00	-20.7	-51.6	.05321	333.1	.00027014	3.49497342
373.20	-21.4	-51.8	.05237	333.6	.00031240	3.49528582
367.00	-22.3	-52.4	.04954	334.0	.00032234	3.49560817
361.20	-23.1	-54.1	.04025	334.5	.00026570	3.49587387
355.50	-23.8	-56.0	.03222	335.1	.00021075	3.49608462
350.00	-24.6	-55.9	.03305	335.5	.00018315	3.49626777
344.30	-25.5	-55.2	.03672	335.9	.00020289	3.49647066
339.00	-26.1	-54.1	.04289	336.5	.00021525	3.49668591
333.80	-27.0	-53.7	.04581	336.8	.00023530	3.49692121
328.50	-28.2	-54.1	.04470	336.7	.00024472	3.49716593
323.50	-28.9	-54.3	.04404	337.1	.00022635	3.49739228
318.60	-29.9	-55.0	.04088	337.3	.00021228	3.49760456
314.00	-30.9	-54.9	.04190	337.3	.00019428	3.49779885
308.00	-32.0	-55.5	.03946	337.7	.00024906	3.49804790
302.70	-32.9	-55.5	.04015	338.0	.00021526	3.49826317
297.30	-34.0	-55.5	.04127	338.2	.00022432	3.49848749
292.00	-35.2	-55.8	.04000	338.2	.00021978	3.49870726
287.00	-36.5	-55.9	.04031	338.1	.00020488	3.49891214
282.00	-37.7	-56.3	.03906	338.0	.00020246	3.49911460
276.90	-39.0	-57.8	.03242	337.9	.00018598	3.49930058
272.00	-39.8	-58.6	.02969	338.6	.00015527	3.49945585
267.00	-40.8	-58.8	.02938	338.9	.00015070	3.49960655
262.00	-42.0	-59.9	.02594	339.0	.00014111	3.49974766
256.70	-42.9	-61.0	.02272	339.6	.00013155	3.49987921
251.40	-43.8	-62.2	.01969	340.2	.00011468	3.49999389
246.80	-44.9	-63.5	.01687	340.4	.00008582	3.50007971
242.00	-45.7	-63.6	.01688	341.1	.00008266	3.50016236
237.30	-46.5	-63.3	.01807	341.8	.00008379	3.50024615
233.00	-47.5	-63.3	.01840	342.1	.00007999	3.50032614
228.50	-48.4	-64.0	.01704	342.7	.00008136	3.50040750
224.20	-48.9	-65.5	.01391	343.8	.00006787	3.50047538
220.00	-49.1	-67.4	.01078	345.4	.00005288	3.50052826
216.00	-50.1	-68.2	.00985	345.6	.00004208	3.50057034
211.80	-51.0	-68.7	.00927	346.1	.00004096	3.50061131
208.00	-52.1	-69.0	.00907	346.2	.00003555	3.50064686
203.80	-53.6	-69.3	.00880	345.9	.00003830	3.50068516
199.70	-54.6	-69.3	.00899	346.3	.00003721	3.50072236
195.50	-55.8	-69.3	.00918	346.5	.00003891	3.50076127
191.20	-56.6	-69.7	.00892	347.4	.00003970	3.50080097
187.00	-57.2	-70.8	.00766	348.6	.00003554	3.50083651
182.80	-58.5	-71.2	.00744	348.8	.00003237	3.50086887
178.60	-59.9	-71.4	.00739	348.9	.00003177	3.50090064
174.70	-60.8	-71.3	.00763	349.6	.00002988	3.50093052
171.10	-61.5	-71.7	.00732	350.5	.00002745	3.50095797
167.50	-62.5	-72.6	.00658	351.0	.00002553	3.50098349
164.00	-63.0	-74.5	.00501	352.3	.00002068	3.50100417
160.30	-63.7	-75.4	.00442	353.4	.00001779	3.50102197
156.80	-64.8	-75.9	.00417	353.8	.00001535	3.50103731
153.20	-65.3	-76.9	.00366	355.3	.00001439	3.50105171

TRINIDAD, W.I. 3/25/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
149.70	-66.1	-77.4	.00349	356.2	.00001277	3.50106448
146.20	-67.2	-77.4	.00353	356.7	.00001253	3.50107701
142.70	-68.1	-77.7	.00345	357.7	.00001246	3.50108947
139.70	-69.3	-77.5	.00365	357.7	.00001085	3.50110032
136.50	-70.9	-78.7	.00306	357.3	.00001095	3.50111127
133.40	-71.6	-79.2	.00290	358.4	.00000943	3.50112070
130.30	-72.2	-79.9	.00264	359.7	.00000876	3.50112946
127.30	-73.3	-80.3	.00253	360.2	.00000791	3.50113738
124.30	-74.4	-80.0	.00273	360.6	.00000805	3.50114542
121.20	-75.2	-80.7	.00249	361.8	.00000826	3.50115368
118.30	-75.9	-81.3	.00231	362.9	.00000709	3.50116077
115.40	-76.7	-81.4	.00234	364.0	.00000687	3.50116764
112.50	-78.0	-82.0	.00217	364.3	.00000666	3.50117430
109.80	-78.9	-82.9	.00192	365.2	.00000563	3.50117993
107.10	-77.2	-83.8	.00167	371.1	.00000495	3.50118488
104.00	-75.5	-84.3	.00159	377.3	.00000514	3.50119002
101.00	-75.9	-84.6	.00156	379.7	.00000481	3.50119483
98.20	-76.3	-86.8	.00109	382.0	.00000377	3.50119860
95.70	-76.7	-86.5	.00118	384.0	.00000288	3.50120148
93.20	-77.2	-87.0	.00111	386.1	.00000291	3.50120439
90.70	-77.6	-87.2	.00110	388.3	.00000280	3.50120719
88.30	-78.4	-87.7	.00103	389.5	.00000259	3.50120978
86.00	-78.9	-88.2	.00098	391.6	.00000234	3.50121212
83.70	-79.3	-88.4	.00097	393.7	.00000226	3.50121439
81.50	-78.9	-88.5	.00097	397.7	.00000218	3.50121656
79.20	-78.4	-88.6	.00098	401.8	.00000228	3.50121884
76.90	-78.0	-89.0	.00093	406.1	.00000224	3.50122108
74.50	-76.3	-88.8	.00100	413.3	.00000237	3.50122344
71.80	-75.5	-88.2	.00117	419.4	.00000298	3.50122643
69.50	-74.8	-88.3	.00119	425.0	.00000276	3.50122918
67.50	-74.4	-88.0	.00127	429.3	.00000250	3.50123169
65.30	-74.0	-87.8	.00136	434.3	.00000295	3.50123464
63.40	-73.3	-89.6	.00102	439.5	.00000231	3.50123695
61.50	-71.9	-87.7	.00147	446.5	.00000241	3.50123936
59.70	-71.2	-87.8	.00149	451.8	.00000271	3.50124207
57.80	-70.9	-87.9	.00151	456.7	.00000291	3.50124498
56.20	-69.6	-87.7	.00161	463.3	.00000255	3.50124753
54.30	-67.2	-87.8	.00164	473.4	.00000314	3.50125067
52.60	-65.0	-87.0	.00196	482.8	.00000311	3.50125378
50.80	-62.7	-87.0	.00203	493.1	.00000365	3.50125743
49.20	-61.3	-87.6	.00188	501.0	.00000317	3.50126061
47.60	-60.1	-88.3	.00173	508.6	.00000294	3.50126354
46.20	-58.5	-87.8	.00193	516.7	.00000261	3.50126615
44.70	-56.8	-87.7	.00203	525.7	.00000301	3.50126916
43.20	-55.8	-88.4	.00187	533.4	.00000298	3.50127214
41.60	-55.6	-88.7	.00183	539.7	.00000301	3.50127515
40.20	-55.8	-88.4	.00201	544.5	.00000274	3.50127789
38.60	-55.8	-88.8	.00194	550.8	.00000322	3.50128111
37.20	-56.0	-88.3	.00221	556.2	.00000295	3.50128406
35.80	-56.2	-89.0	.00201	561.8	.00000301	3.50128707
34.50	-55.0	-89.2	.00200	570.9	.00000265	3.50128973
33.20	-54.4	-89.9	.00183	578.8	.00000253	3.50129226
31.90	-54.6	-90.3	.00179	584.9	.00000240	3.50129466
30.60	-55.0	-94.0	.00093	590.8	.00000179	3.50129645
29.40	-55.4	-95.5	.00073	596.5	.00000100	3.50129744

TRINIDAD,W.I. 3/25/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
28.20	-55.8	-93.6	.00109	602.5	.00000110	3.50129855
27.00	-54.8	-92.4	.00143	612.9	.00000153	3.50130008
25.80	-54.4	-91.5	.00177	622.0	.00000195	3.50130203
24.70	-53.8	-91.1	.00198	631.5	.00000210	3.50130413
23.50	-53.0	-91.0	.00213	642.8	.00000250	3.50130664
22.40	-52.7	-90.0	.00266	652.8	.00000268	3.50130932
21.50	-52.1	-90.2	.00271	662.1	.00000246	3.50131178
20.80	-51.9	-90.3	.00275	669.0	.00000194	3.50131372
20.10	-51.7	-89.7	.00316	676.1	.00000210	3.50131582
19.30	-51.6	-89.6	.00336	684.6	.00000265	3.50131847
18.60	-51.4	-89.5	.00356	692.4	.00000246	3.50132093
17.90	-51.4	-89.1	.00393	700.0	.00000267	3.50132360
17.20	-51.4	-88.5	.00461	708.1	.00000304	3.50132664
16.60	-51.2	-88.9	.00441	715.9	.00000276	3.50132939
15.90	-51.2	-88.4	.00508	724.7	.00000338	3.50133277
15.40	-51.2	-88.4	.00525	731.4	.00000262	3.50133540
14.80	-51.0	-88.3	.00557	740.3	.00000331	3.50133871
14.30	-51.0	-88.0	.00599	747.6	.00000294	3.50134164
13.80	-51.0	-88.5	.00574	755.3	.00000298	3.50134462
13.30	-50.8	-88.9	.00551	763.9	.00000286	3.50134748
12.90	-50.6	-88.0	.00664	771.2	.00000247	3.50134996
12.50	-50.6	-88.5	.00634	778.2	.00000264	3.50135259
12.10	-50.6	-88.0	.00708	785.5	.00000273	3.50135532
11.70	-50.6	-86.5	.00963	793.0	.00000340	3.50135872

TRINIDAD,W.I. 4/23/65 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1003.00	24.6	18.8	13.76771	297.5		
989.00	23.1	18.8	13.96698	297.2	.19810419	.19810419
982.50	21.9	18.8	14.06147	296.6	.09295113	.29105532
958.00	20.5	17.6	13.33453	297.3	.34244865	.63350397
940.00	18.9	18.8	14.71227	297.3	.25757161	.89107558
921.00	17.5	17.6	13.88218	297.6	.27719001	1.16826560
903.00	16.3	16.4	13.12558	298.0	.24802943	1.41629502
884.00	15.1	16.4	13.41377	298.6	.25726815	1.67356317
867.00	14.0	16.4	13.68257	299.1	.23501836	1.90858153
849.00	12.6	13.3	11.37118	299.4	.23008452	2.13866605
832.00	11.5	10.5	9.60961	300.0	.18197545	2.32064150
816.00	10.7	9.6	9.23545	300.8	.15383655	2.47447805
802.00	10.1	7.2	7.95305	301.6	.12277451	2.59725256
788.00	9.9	1.1	5.27359	303.0	.09447563	2.69172819
775.00	9.9	1.7	5.60439	304.4	.07214953	2.76387772
761.00	9.6	4.3	6.85385	305.7	.08898704	2.85286476
749.00	8.8	3.6	6.63674	306.3	.08259508	2.93545984
737.00	7.9	2.3	6.15799	306.7	.07833472	3.01379456
723.00	7.2	2.3	6.27843	307.6	.08883122	3.10262577
709.00	6.6	3.0	6.70463	308.6	.09273577	3.19536154
694.00	6.5	-2.7	4.40996	310.4	.08506027	3.28042181
675.60	6.3	-18.1	1.13512	312.6	.05205563	3.33247744
666.00	6.0	-25.7	.55022	313.6	.00825466	3.34073210
654.00	5.1	-25.9	.55026	314.2	.00673756	3.34746966
641.00	4.7	-26.4	.53137	315.5	.00717402	3.35464367
629.00	4.3	-28.3	.44620	316.7	.00598505	3.36062872
617.80	4.1	-28.2	.46225	318.2	.00519109	3.36581981
603.40	3.3	-21.2	.94455	319.4	.01033559	3.37615541
591.20	1.6	-21.0	.98488	319.3	.01200964	3.38816504
578.00	-.0	-21.2	.98612	319.4	.01327401	3.40143906
565.20	-.9	-25.2	.68613	320.5	.01092073	3.41235979
552.90	-2.1	-28.8	.48282	321.1	.00733568	3.41969547
540.30	-3.7	-27.5	.56636	321.3	.00674471	3.42644018
528.00	-5.2	-25.9	.68171	321.6	.00783227	3.43427245
516.90	-6.4	-25.2	.75032	322.1	.00810991	3.44238237
504.40	-7.8	-24.4	.83067	322.6	.01008274	3.45246510
501.00	-7.8	-24.8	.80411	323.3	.00283581	3.45530091
493.90	-8.3	-28.3	.56836	324.0	.00497165	3.46027257
487.00	-8.7	-29.5	.51282	324.8	.00380617	3.46407874
480.30	-9.3	-27.7	.62639	325.3	.00389422	3.46797296
474.00	-9.7	-28.0	.61321	326.1	.00398439	3.47195736
467.40	-10.4	-29.2	.55217	326.6	.00392419	3.47588155
461.30	-10.9	-30.9	.46867	327.2	.00317706	3.47905861
455.10	-11.5	-32.6	.39553	327.7	.00273365	3.48179226
449.20	-12.3	-35.5	.29290	327.9	.00207229	3.48386455
443.00	-13.3	-35.1	.30950	328.0	.00190553	3.48577008
437.20	-14.0	-35.6	.29697	328.3	.00179465	3.48756473
431.00	-14.8	-36.0	.28925	328.7	.00185438	3.48941910
424.60	-15.3	-40.6	.17517	329.4	.00151648	3.49093558
418.00	-15.9	-42.6	.14118	330.1	.00106525	3.49200083
411.00	-16.7	-43.2	.13427	330.6	.00098374	3.49298458
404.20	-17.6	-43.7	.12916	331.0	.00091395	3.49389853
397.20	-18.4	-42.5	.15029	331.7	.00099804	3.49489656
390.30	-18.9	-44.5	.12120	332.7	.00095576	3.49585232
383.80	-19.5	-45.0	.11679	333.5	.00078924	3.49664156
377.70	-20.0	-42.9	.15111	334.4	.00083373	3.49747530

TRINIDAD,W.I. 4/23/65 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
371.00	-21.0	-39.2	.23457	334.8	.00131837	3.49879366
364.20	-22.1	-38.0	.27421	335.1	.00176515	3.50055881
358.00	-23.3	-39.9	.22601	335.0	.00158232	3.50214113
351.80	-24.5	-40.5	.21400	335.2	.00139186	3.50353299
346.00	-25.5	-41.2	.20037	335.4	.00122619	3.50475918
340.00	-26.6	-40.7	.21625	335.5	.00127536	3.50603454
334.20	-27.8	-39.9	.24212	335.6	.00135638	3.50739092
328.70	-28.8	-40.1	.24021	335.8	.00135344	3.50874436
323.20	-29.8	-40.2	.24146	336.0	.00135159	3.51009595
317.90	-31.0	-38.8	.28773	336.0	.00143096	3.51152691
312.80	-32.2	-34.5	.47003	335.9	.00197169	3.51349860
307.40	-33.1	-36.5	.38464	336.2	.00235467	3.51585327
302.30	-34.1	-37.0	.37093	336.5	.00196600	3.51781927
297.00	-35.1	-36.2	.40880	336.7	.00210842	3.51992770
292.00	-35.8	-36.6	.39952	337.4	.00206202	3.52198972
286.80	-36.5	-38.3	.33526	338.1	.00194940	3.52393912
281.50	-37.6	-39.6	.29802	338.3	.00171241	3.52565153
276.20	-38.6	-41.8	.23411	338.7	.00143892	3.52709045
271.10	-39.8	-42.5	.22022	338.8	.00118218	3.52827263
266.00	-40.8	-42.9	.21458	339.2	.00113136	3.52940398
260.80	-42.2	-42.2	.23689	339.1	.00119776	3.53060174
256.10	-43.7	-41.7	.25547	338.7	.00118065	3.53178239
251.30	-44.8	-41.7	.26036	338.9	.00126325	3.53304563
246.70	-45.9	-42.6	.23925	339.0	.00117253	3.53421816
241.90	-47.0	-43.5	.22066	339.2	.00112630	3.53534447
237.20	-48.0	-44.5	.19946	339.6	.00100742	3.53635189

TRINIDAD,W.I. 5/21/65 1400Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1014.40	24.6	25.1	20.12464	296.6		
958.50	23.5	11.6	8.95949	300.3	.82948783	.82948783
931.00	22.1	14.9	11.51341	301.3	.28724612	1.11673395
917.50	20.7	16.1	12.63820	301.2	.16634971	1.28308366
900.50	19.6	12.6	10.22805	301.7	.19832897	1.48141263
887.40	18.6	12.6	10.38156	301.9	.13774739	1.61916003
876.00	17.6	10.5	9.16001	302.0	.11365971	1.73281974
861.00	16.9	10.5	9.32198	302.8	.14144328	1.87426302
840.00	14.0	7.7	7.89066	301.9	.18442048	2.05868350
821.00	15.8	9.6	9.17534	305.7	.16543509	2.22411859
808.00	15.0	6.0	7.29729	306.3	.10925679	2.33337538
796.00	14.4	6.0	7.40861	306.9	.09003572	2.42341110
784.00	13.6	-1.0	4.50842	307.4	.07296108	2.49637218
773.00	12.9	-2.1	4.14388	307.9	.04855864	2.54493082
761.00	12.0	-2.7	4.01043	308.3	.04992417	2.59485498
750.00	11.1	-2.7	4.06963	308.6	.04534711	2.64020209
739.00	10.5	-2.7	4.13061	309.3	.04602161	2.68622370
726.00	9.1	-4.8	3.50880	309.4	.05066934	2.73689304
714.00	9.4	-4.3	3.73132	311.2	.04432704	2.78122008
702.00	9.7	-14.3	1.56755	313.0	.03244191	2.81366199
690.00	9.7	-18.3	1.09884	314.5	.01632476	2.82998675
679.00	9.9	-22.8	.71869	316.2	.01020038	2.84018713
668.00	8.7	-16.2	1.37905	316.3	.01177301	2.85196014
657.00	7.8	-14.9	1.57657	316.8	.01658759	2.86854772
647.00	7.0	-14.3	1.70117	317.2	.01672308	2.88527080
636.00	5.8	-15.3	1.58007	317.5	.01841503	2.90368584
627.00	5.1	-15.3	1.60281	317.9	.01461519	2.91830103
616.00	4.4	-16.5	1.45279	318.8	.01714866	2.93544969
605.00	3.5	-17.4	1.35993	319.4	.01578559	2.95123528
594.50	2.6	-19.1	1.17986	319.9	.01360600	2.96484128
584.00	1.6	-21.7	.93806	320.4	.01134598	2.97618726
574.00	.8	-23.3	.81237	321.0	.00893076	2.98511802
564.00	-.1	-19.6	1.18069	321.5	.01016866	2.99528667
555.00	-1.1	-19.6	1.19988	321.9	.01093113	3.00621781
546.00	-1.9	-19.6	1.21969	322.5	.01111022	3.01732802
537.00	-2.7	-21.2	1.06991	323.0	.01051342	3.02784145
529.00	-3.6	-19.4	1.29199	323.3	.00964034	3.03748178
520.00	-4.1	-21.2	1.10495	324.3	.01100628	3.04848807
510.80	-5.1	-25.4	.73696	324.8	.00864565	3.05713372
501.50	-5.7	-26.1	.70643	325.7	.00684872	3.06398244
492.80	-6.5	-26.1	.71892	326.4	.00632676	3.07030921
484.10	-7.1	-25.7	.76214	327.3	.00657406	3.07688327
476.00	-7.9	-24.8	.84215	327.9	.00662994	3.08351322
468.00	-8.5	-19.4	1.46078	328.7	.00939967	3.09291288
460.20	-9.4	-27.4	.67017	329.2	.00848028	3.10139316
453.00	-10.5	-28.0	.64327	329.4	.00482485	3.10621801
446.30	-11.5	-27.2	.70480	329.5	.00460815	3.11082616
439.50	-12.6	-27.2	.71572	329.5	.00492828	3.11575444
432.70	-13.4	-27.6	.69957	330.0	.00491016	3.12066460
426.00	-14.0	-29.4	.59008	330.7	.00440848	3.12507308
419.40	-14.8	-29.6	.58856	331.2	.00396888	3.12904195
413.00	-15.4	-23.5	1.10540	331.9	.00553128	3.13457324
407.20	-16.3	-23.7	1.09642	332.1	.00651555	3.14108878
401.60	-17.0	-25.2	.95761	332.4	.00586860	3.14695738
396.00	-17.8	-24.8	1.01256	332.8	.00562900	3.15258639
390.70	-18.5	-27.2	.80523	333.1	.00491540	3.15750179

TRINIDAD,W.I. 5/21/65 1400Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
385.40	-19.2	-28.3	.72791	333.5	.00414571	3.16164750
380.10	-19.7	-28.9	.69860	334.2	.00385739	3.16550489
375.20	-20.4	-27.2	.83854	334.4	.00384282	3.16934770
370.40	-21.1	-24.4	1.12941	334.8	.00481944	3.17416714
365.00	-21.7	-24.4	1.14615	335.4	.00626938	3.18043652
359.80	-22.7	-25.4	1.04677	335.4	.00581792	3.18625444
354.30	-23.2	-25.0	1.10883	336.2	.00604884	3.19230329
349.20	-24.1	-28.7	.77432	336.4	.00490001	3.19720329
344.00	-24.9	-27.8	.86325	336.8	.00434454	3.20154783
339.00	-25.5	-32.4	.54466	337.3	.00359158	3.20513941
334.00	-26.2	-31.9	.58089	337.9	.00287127	3.20801069
329.00	-27.1	-31.7	.59940	338.1	.00301090	3.21102159
324.10	-27.9	-31.9	.59865	338.4	.00299509	3.21401668
319.20	-28.5	-33.6	.50878	339.0	.00276856	3.21678524
314.40	-29.2	-37.4	.34116	339.6	.00208148	3.21886672
309.90	-29.7	-37.9	.32748	340.2	.00153512	3.22040184
305.00	-30.5	-37.4	.35168	340.6	.00169788	3.22209972
300.20	-31.2	-38.6	.31144	341.2	.00162396	3.22372368
295.40	-32.0	-38.1	.33430	341.7	.00158140	3.22530508
290.80	-33.0	-39.3	.29684	341.8	.00148124	3.22678632
286.20	-33.9	-39.4	.29760	342.0	.00139511	3.22818142
281.70	-34.9	-41.7	.23419	342.2	.00122093	3.22940235
277.30	-35.6	-42.7	.21052	342.7	.00099832	3.23040067
273.00	-36.6	-42.6	.21647	342.8	.00093675	3.23133741
268.40	-37.5	-42.5	.22281	343.2	.00103095	3.23236836
264.00	-38.4	-42.2	.23497	343.5	.00102766	3.23339602
260.00	-39.4	-43.5	.20652	343.5	.00090098	3.23429701
255.80	-40.4	-43.7	.20503	343.6	.00088188	3.23517889
252.60	-41.4	-45.0	.17647	343.4	.00062284	3.23580173
247.00	-42.5	-46.2	.15768	344.0	.00095472	3.23675644
243.00	-43.1	-47.5	.13749	344.7	.00060238	3.23735882
239.00	-43.7	-47.8	.13385	345.3	.00055376	3.23791258
235.00	-44.4	-48.1	.13187	346.0	.00054228	3.23845486
231.30	-45.2	-49.0	.11923	346.4	.00047402	3.23892888
227.70	-46.0	-50.0	.10693	346.6	.00041538	3.23934427
224.20	-46.9	-49.9	.11085	346.9	.00038888	3.23973314
220.80	-47.7	-51.0	.09852	347.1	.00036319	3.24009633
217.50	-48.8	-51.0	.10002	346.9	.00033426	3.24043059
214.40	-49.7	-51.9	.08992	347.0	.00030041	3.24073100
211.30	-50.6	-52.7	.08261	347.0	.00027287	3.24100387
207.40	-51.4	-53.6	.07552	347.6	.00031464	3.24131851
203.80	-52.3	-53.2	.08072	347.9	.00028697	3.24160548
200.20	-53.3	-55.3	.06264	348.1	.00026330	3.24186878
196.70	-54.7	-55.8	.05961	347.6	.00021830	3.24208708
193.00	-55.6	-55.4	.06435	348.2	.00023399	3.24232107
189.50	-56.6	-55.7	.06309	348.3	.00022757	3.24254864
186.10	-57.3	-57.2	.05262	349.0	.00020070	3.24274935
182.80	-58.2	-58.2	.04651	349.4	.00016689	3.24291624
179.40	-59.1	-59.4	.04043	349.8	.00015080	3.24306704
175.80	-60.3	-59.7	.03973	349.8	.00014722	3.24321426
172.30	-61.5	-61.8	.03033	349.8	.00012511	3.24333937
168.90	-62.8	-62.9	.02663	349.7	.00009881	3.24343818
165.60	-63.8	-64.3	.02250	349.9	.00008272	3.24352090
162.30	-64.9	-65.4	.01954	350.1	.00007077	3.24359167
159.10	-66.3	-65.9	.01864	349.7	.00006233	3.24365400

TRINIDAD,W.I. 5/21/65 1400Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
156.00	-67.2	-67.0	.01630	350.1	.00005525	3.24370925
153.00	-68.2	-67.7	.01493	350.5	.00004780	3.24375705
150.00	-69.4	-68.1	.01436	350.3	.00004484	3.24380189
147.20	-70.1	-69.2	.01237	351.1	.00003818	3.24384007
144.40	-71.1	-71.4	.00919	351.2	.00003079	3.24387085
141.80	-71.8	-72.6	.00774	351.8	.00002244	3.24389330
139.20	-73.3	-74.0	.00634	351.1	.00001866	3.24391195
136.20	-74.1	-74.5	.00606	351.9	.00001895	3.24393091
133.80	-75.2	-73.6	.00704	351.6	.00001603	3.24394694
131.30	-76.1	-74.2	.00657	352.0	.00001736	3.24396430
128.60	-77.4	-75.6	.00541	351.8	.00001650	3.24398080
125.80	-77.8	-77.1	.00430	353.2	.00001386	3.24399465
123.30	-78.3	-78.0	.00383	354.4	.00001037	3.24400502
120.70	-78.7	-79.3	.00314	355.7	.00000925	3.24401428
118.20	-79.2	-80.2	.00277	357.0	.00000754	3.24402182
115.50	-79.7	-79.9	.00299	358.4	.00000793	3.24402975
112.90	-79.7	-80.2	.00294	360.8	.00000787	3.24403761
110.20	-79.7	-79.9	.00314	363.3	.00000836	3.24404597
107.70	-79.7	-80.2	.00304	365.7	.00000787	3.24405384
105.40	-79.7	-83.0	.00195	367.9	.00000586	3.24405970
103.10	-79.7	-92.9	.00034	370.3	.00000268	3.24406238
100.80	-79.7	-86.7	.00108	372.7	.00000165	3.24406403
98.40	-79.2	-83.7	.00184	376.2	.00000356	3.24406759
96.00	-78.7	-86.6	.00115	379.8	.00000367	3.24407126
93.70	-78.3	-83.9	.00188	383.3	.00000355	3.24407481
91.30	-77.8	-83.1	.00222	387.1	.00000501	3.24407981
88.90	-77.4	-83.3	.00221	390.9	.00000541	3.24408522
86.40	-76.9	-84.0	.00200	395.0	.00000536	3.24409059
84.00	-75.6	-87.3	.00117	400.8	.00000387	3.24409446
81.70	-75.2	-90.1	.00072	404.8	.00000222	3.24409668
79.40	-74.4	-94.2	.00034	409.8	.00000124	3.24409792
77.20	-74.1	-94.4	.00034	413.9	.00000076	3.24409868
74.80	-71.1	-88.2	.00110	423.8	.00000177	3.24410045
72.70	-68.8	-84.6	.00215	432.2	.00000349	3.24410394
70.80	-66.9	-88.2	.00117	439.4	.00000322	3.24410716
68.90	-65.2	-91.7	.00064	446.6	.00000174	3.24410890
67.00	-63.8	-88.0	.00128	453.1	.00000186	3.24411076
65.20	-62.3	-85.2	.00217	460.1	.00000317	3.24411394
63.30	-62.3	-85.9	.00198	464.0	.00000402	3.24411796
61.50	-62.3	-87.4	.00157	467.9	.00000325	3.24412121
59.80	-62.3	-89.5	.00110	471.6	.00000231	3.24412352
58.20	-62.3	-89.3	.00118	475.3	.00000185	3.24412537
56.40	-62.5	-88.5	.00141	479.0	.00000237	3.24412774
54.70	-62.5	-87.6	.00170	483.2	.00000268	3.24413042
52.80	-62.5	-87.5	.00180	488.1	.00000338	3.24413380
50.10	-62.5	-87.1	.00201	495.5	.00000523	3.24413903
49.40	-62.5	-88.4	.00164	497.5	.00000130	3.24414033
47.80	-62.5	-89.4	.00140	502.2	.00000247	3.24414280
46.30	-62.8	-87.9	.00190	506.2	.00000252	3.24414532
44.70	-62.5	-87.8	.00200	511.9	.00000317	3.24414849
43.30	-62.0	-88.7	.00176	517.8	.00000268	3.24415118
41.90	-61.5	-89.3	.00164	524.0	.00000241	3.24415359
40.60	-60.3	-88.9	.00180	531.8	.00000226	3.24415585
39.20	-59.8	-93.2	.00085	538.3	.00000189	3.24415775
37.80	-59.1	-90.7	.00139	545.8	.00000159	3.24415934

TRINIDAD, W.I. 6/23/65 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1014.50	26.1	20.0	14.68190	298.0		
988.00	25.1	20.0	15.08525	299.3	.40246244	.40246244
968.00	24.0	18.5	14.00279	299.9	.29681557	.69927801
949.00	22.9	20.0	15.72086	300.5	.28813630	.98741432
932.00	21.4	21.7	17.78837	300.6	.29064009	1.27805440
915.00	20.3	20.0	16.32035	301.0	.29583974	1.57389414
898.00	19.1	21.7	18.48188	301.4	.30185489	1.87574904
882.00	18.1	18.5	15.40195	301.9	.27660163	2.15235066
869.00	17.2	20.0	17.20816	302.2	.21629073	2.36864139
853.00	16.5	15.7	13.25787	303.1	.24870132	2.61734271
838.00	16.0	14.4	12.42529	304.2	.19655402	2.81389673
823.00	15.5	13.2	11.65438	305.2	.18428242	2.99817915
809.00	15.0	13.2	11.85991	306.2	.16795850	3.16613765
795.00	14.4	12.0	11.18907	307.0	.16463490	3.33077255
781.00	14.4	9.8	9.80822	308.6	.14998008	3.48075263
768.00	13.6	8.8	9.32134	309.2	.12687922	3.60763185
754.00	12.3	7.8	8.87167	309.4	.12994955	3.73758140
740.00	11.0	7.8	9.04196	309.7	.12795399	3.86553539
724.00	9.7	5.1	7.64701	310.2	.13623592	4.00177132
708.00	8.8	2.0	6.23556	311.1	.11332662	4.11509794
694.00	7.6	-1.5	4.87047	311.6	.07932843	4.19442637
680.00	6.5	-4.5	3.85228	312.3	.06230508	4.25673145
667.00	5.7	-5.6	3.57489	313.0	.04926161	4.30599307
654.00	4.9	1.2	6.40042	314.0	.06616247	4.37215553
641.00	3.9	2.0	6.89455	314.6	.08818053	4.46033606
631.00	2.5	-2.1	5.07889	314.4	.06108873	4.52142479
619.00	2.8	-3.4	4.67315	316.5	.05970612	4.58113091
608.00	2.0	-2.8	5.00966	317.2	.05434206	4.63547297
595.00	1.0	-5.1	4.19855	318.0	.06107463	4.69654760
583.00	-.1	-5.6	4.09336	318.6	.05076659	4.74731418
570.00	-1.3	-6.7	3.82353	319.2	.05250974	4.79982392
557.00	-2.4	-7.7	3.57984	320.0	.04910378	4.84892771
545.00	-3.8	-6.7	4.00005	320.3	.04640728	4.89533499
531.00	-5.2	-8.1	3.60296	321.1	.05430700	4.94964199
518.00	-6.3	-9.6	3.26199	322.0	.04553266	4.99517465
506.00	-7.1	-10.4	3.08702	323.2	.03887135	5.03404599
494.30	-8.0	-15.1	2.05995	324.3	.03072415	5.06477015
482.50	-9.1	-23.4	.96061	325.1	.01818494	5.08295509
471.00	-10.4	-17.5	1.73386	325.8	.01580936	5.09876445
459.80	-11.7	-16.8	1.88983	326.5	.02070674	5.11947119
448.60	-13.0	-15.1	2.27057	327.1	.02377363	5.14324482
439.00	-14.3	-15.5	2.24505	327.5	.02211720	5.16536202
428.20	-15.2	-17.8	1.85275	328.7	.02257961	5.18794163
417.00	-15.9	-18.1	1.84634	330.3	.02113758	5.20907921
406.80	-17.3	-19.0	1.73509	330.8	.01863800	5.22771721
396.30	-18.7	-19.3	1.73247	331.5	.01857613	5.24629334
386.80	-20.0	-23.1	1.22780	332.0	.01434819	5.26064153
377.50	-21.0	-29.2	.67934	333.0	.00904915	5.26969068
370.00	-22.3	-38.0	.27050	333.3	.00363454	5.27332522
360.80	-23.6	-39.0	.24653	334.0	.00242685	5.27575207
351.00	-25.1	-37.4	.30281	334.6	.00274669	5.27849875
342.00	-26.6	-33.3	.48954	335.0	.00363830	5.28213705
333.20	-28.0	-31.2	.62304	335.5	.00499521	5.28713226
324.00	-29.2	-30.7	.67790	336.6	.00610641	5.29323867
315.30	-30.5	-28.4	.88152	337.4	.00692186	5.30016053
308.00	-31.7	-32.4	.59359	338.0	.00549398	5.30565451

TRINIDAD,W.I. 6/23/65 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
300.00	-33.1	-36.9	.37666	338.6	.00396018	5.30961469
292.00	-34.7	-37.7	.35321	338.9	.00297906	5.31259374
284.00	-36.3	-38.3	.34195	339.4	.00586620	5.31845994
276.00	-38.1	-40.4	.27561	339.5	.00252065	5.32098059
268.00	-40.0	-42.9	.21404	339.6	.00199856	5.32297915
260.50	-41.7	-45.5	.16275	340.0	.00144179	5.32442094
252.50	-43.2	-48.0	.12352	340.7	.00116843	5.32558937
245.20	-45.0	-50.4	.09505	341.0	.00081404	5.32640341
238.00	-47.0	-52.8	.07257	340.9	.00061570	5.32701911
230.70	-48.7	-55.6	.05227	341.3	.00046492	5.32748403
224.00	-50.3	-56.7	.04680	341.7	.00033863	5.32782266
217.70	-51.6	-56.1	.05163	342.6	.00031637	5.32813902
210.80	-52.9	-56.8	.04875	343.7	.00035338	5.32849240
204.00	-54.5	-60.7	.03000	344.4	.00027321	5.32876562
197.50	-56.3	-63.3	.02174	344.7	.00017159	5.32893720
191.20	-58.3	-67.5	.01237	344.8	.00010964	5.32904685
185.40	-59.9	-68.4	.01113	345.2	.00006953	5.32911637
179.80	-61.8	-68.9	.01071	345.1	.00006238	5.32917875
174.30	-62.8	-69.7	.00980	346.6	.00005755	5.32923630
167.80	-64.3	-69.7	.01018	347.7	.00006627	5.32930256
161.70	-65.7	-70.5	.00927	349.1	.00006053	5.32936309
156.00	-67.4	-77.1	.00350	349.8	.00003713	5.32940023
150.60	-69.3	-76.6	.00389	350.2	.00002037	5.32942060
145.00	-70.6	-76.5	.00414	351.7	.00002295	5.32944354
139.70	-72.0			353.1	.00000000	5.32944354
132.70	-73.4			355.8	.00000000	5.32944354
125.80	-73.0			361.9	.00000000	5.32944354
119.40	-71.6			369.9	.00000000	5.32944354
113.50	-70.3			377.8	.00000000	5.32944354
107.50	-70.6			383.1	.00000000	5.32944354
101.50	-71.2			388.2	.00000000	5.32944354
96.00	-72.7			391.6	.00000000	5.32944354
90.70	-74.1			395.1	.00000000	5.32944354
85.90	-73.8			402.1	.00000000	5.32944354
81.50	-73.8			408.1	.00000000	5.32944354
77.20	-72.7			416.8	.00000000	5.32944354
75.70	-72.3	-85.6	.00173	419.9	.00000133	5.32944487
73.70	-71.6	-86.1	.00164	424.6	.00000344	5.32944831
71.80	-70.6	-86.6	.00155	429.9	.00000308	5.32945140
69.70	-69.3	-86.9	.00151	436.4	.00000326	5.32945466
67.80	-68.7	-86.8	.00158	441.2	.00000300	5.32945766
65.80	-67.4	-86.6	.00169	447.6	.00000332	5.32946098
63.90	-66.0	-86.5	.00177	454.6	.00000334	5.32946432
62.00	-65.1	-86.4	.00185	460.4	.00000350	5.32946782
60.20	-64.3	-86.5	.00187	466.1	.00000341	5.32947123
58.40	-63.3	-86.5	.00193	472.5	.00000349	5.32947472
56.50	-62.5	-86.6	.00196	478.7	.00000377	5.32947849
54.80	-61.8	-86.7	.00199	484.6	.00000343	5.32948191
53.20	-60.6	-86.8	.00201	491.6	.00000326	5.32948518
51.50	-60.6	-86.4	.00223	496.1	.00000368	5.32948886
49.70	-60.8	-86.9	.00212	500.7	.00000399	5.32949285
48.20	-61.0	-86.9	.00219	504.5	.00000329	5.32949615
46.50	-61.5	-87.3	.00211	508.5	.00000371	5.32949986
44.90	-61.3	-87.3	.00218	514.2	.00000350	5.32950336
43.50	-60.8	-87.2	.00230	520.1	.00000319	5.32950655

TRINIDAD,W.I. 6/23/65 1340Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
42.10	-60.6	-87.3	.00233	525.6	.00000329	5.32950984
40.90	-60.3	-88.2	.00204	530.5	.00000267	5.32951251
39.80	-60.1	-88.6	.00194	535.3	.00000222	5.32951473

TRINIDAD,W.I. 10/21/65 1335Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1013.40	28.5	20.0	14.64456	300.5		
993.00	26.8	15.4	11.14389	300.6	.26840930	.26840930
982.00	25.7	14.0	10.29433	300.4	.12031603	.38872533
969.50	25.3	18.4	13.83663	301.1	.15389578	.54262111
956.00	23.7	20.0	15.54583	300.7	.20237832	.74499942
943.00	22.6	15.4	11.74592	300.8	.18101595	.92601538
929.00	21.3	12.7	9.98334	300.7	.15520838	1.08122376
915.00	20.4	9.2	8.02972	301.1	.12866423	1.20988798
901.50	19.7	8.2	7.56953	301.6	.10744342	1.31733140
887.00	19.3	6.2	6.70791	302.7	.10562350	1.42295490
872.00	19.0	3.5	5.63635	303.8	.09447099	1.51742589
856.00	18.4	2.6	5.40588	304.9	.09014033	1.60756622
841.00	17.9	-1.1	4.13606	305.8	.07302475	1.68059097
827.00	17.6	-3.1	3.56068	307.0	.05497645	1.73556742
813.00	16.9	-1.1	4.27948	307.7	.05600092	1.79156834
800.00	15.7	-1.8	4.11188	307.9	.05565676	1.84722510
788.00	15.1	-3.1	3.73796	308.5	.04806003	1.89528513
777.00	14.6	-5.6	3.07882	309.2	.03825729	1.93354242
767.00	13.8	-6.1	2.97327	309.5	.03087787	1.96442029
757.00	13.3	-1.1	4.59841	310.1	.03863083	2.00305112
746.00	12.3	-1.1	4.66672	310.4	.05199793	2.05504905
735.00	12.2	-1.1	4.73709	311.5	.05277628	2.10782532
723.00	11.2	-1.1	4.81633	312.0	.05849008	2.16631541
710.00	10.1	-1.1	4.90521	312.4	.06447929	2.23079470
698.00	8.9	-1.8	4.71731	312.6	.05891313	2.28970782
686.00	7.9	-4.4	3.85957	313.0	.05251127	2.34221910
674.00	6.8	-3.1	4.37465	313.4	.05041334	2.39263244
660.50	5.5	-2.5	4.71137	313.7	.06258200	2.45521444
647.50	4.2	-5.0	3.89015	314.0	.05705065	2.51226509
634.50	3.2	-6.7	3.42559	314.7	.04852258	2.56078766
621.00	2.1	-8.8	2.91719	315.4	.04368739	2.60447505
609.50	1.7	-9.3	2.84345	316.6	.03379957	2.63827462
598.00	1.0	-12.9	2.09706	317.5	.02898760	2.46726223
586.00	.3	-11.1	2.50452	318.6	.02817282	2.69543505
575.00	-.2	-11.1	2.55263	319.7	.02838181	2.72381686
564.00	-.9	-14.8	1.85296	320.6	.02472512	2.74854198
552.00	-1.5	-17.4	1.49728	322.0	.02051157	2.76905355
541.00	-2.8	-17.4	1.52780	322.2	.01697738	2.58603093
530.00	-4.1	-13.7	2.19721	322.5	.02090558	2.80693652
519.00	-5.2	-10.7	2.94422	323.2	.02885486	2.83579138
508.00	-6.2	-15.2	1.98874	323.9	.02768485	2.86347623
497.50	-7.5	-14.1	2.25629	324.3	.02274114	2.88621737
486.50	-8.8	-13.7	2.39443	324.8	.02610090	2.91231827
476.00	-9.9	-13.3	2.54127	325.4	.02644116	2.93875943
466.00	-11.2	-18.7	1.56628	325.8	.02095681	2.95971625
455.50	-12.0	-22.5	1.10698	327.0	.01432098	2.97403723
445.20	-12.5	-29.1	.58604	328.5	.00889696	2.98293419
431.70	-12.8	-30.8	.50336	330.9	.00750351	2.99043770
427.00	-13.8	-26.2	.81424	330.7	.00315954	2.99359724
418.00	-15.3	-26.2	.83179	330.8	.00755827	3.00115551
408.70	-16.3	-30.4	.55322	331.6	.00657170	3.00772721
399.80	-17.2	-35.6	.32657	332.6	.00399491	3.01172212
390.80	-18.1	-35.4	.33964	333.7	.00305910	3.01478122
381.80	-19.2	-33.8	.41357	334.4	.00345859	3.01823981
372.60	-20.5	-33.6	.43156	334.9	.00396688	3.02220669
364.20	-22.0	-33.0	.47461	335.1	.00388356	3.02609025

TRINIDAD,W.I. 10/21/65 1335Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
355.80	-23.7	-34.6	.40641	335.2	.00377579	3.02986604
346.90	-24.9	-42.3	.17694	335.9	.00264885	3.03251489
338.00	-26.2	-41.6	.19723	336.7	.00169902	3.03421390
329.20	-27.6	-42.2	.18896	337.4	.00173393	3.03594783
324.40	-28.8	-45.7	.12630	337.0	.00077207	3.03671990
319.70	-29.3	-45.0	.13994	337.7	.00063843	3.03735833
315.00	-30.3	-45.5	.13335	337.9	.00065532	3.03801365
310.00	-31.4	-45.9	.13057	337.8	.00067328	3.03868693
305.00	-32.3	-45.1	.14488	338.1	.00070268	3.03938961
300.00	-33.4	-43.9	.16963	338.2	.00080232	3.04019193
295.00	-34.2	-39.7	.28031	338.7	.00114779	3.04133973
290.00	-35.1	-36.9	.38811	339.0	.00170514	3.04304487
285.00	-35.8	-37.9	.35349	339.7	.00189184	3.04493670
280.00	-36.7	-39.6	.29981	340.2	.00166658	3.04660328
275.50	-37.5	-40.2	.28312	340.6	.00133836	3.04794164
271.00	-38.5	-41.7	.24269	340.8	.00120722	3.04914886
266.40	-39.8	-42.7	.22117	340.6	.00108865	3.05023751
262.00	-40.8	-47.1	.13337	340.7	.00079590	3.05103341
258.00	-41.5	-41.8	.25134	341.2	.00078511	3.05181852
254.00	-42.4	-47.6	.12958	341.4	.00077738	3.05259590
249.50	-43.0	-47.0	.14178	342.2	.00062302	3.05321892
245.00	-43.9	-46.1	.16113	342.6	.00069545	3.05391437
240.60	-44.5	-46.5	.15623	343.5	.00071242	3.05462679
236.30	-45.6	-48.0	.13288	343.6	.00063425	3.05526105
232.10	-46.1	-49.4	.11369	344.6	.00052835	3.05578940
228.00	-47.2	-51.7	.08665	344.7	.00041908	3.05620848
224.00	-47.9	-57.9	.03988	345.4	.00025821	3.05646668
220.00	-49.1	-52.6	.08063	345.4	.00024593	3.05671261
216.00	-49.8	-51.3	.09660	346.1	.00036167	3.05707428
212.10	-51.0	-52.2	.08824	346.0	.00036778	3.05744205
208.30	-52.2	-53.2	.07825	345.8	.00032277	3.05776483
204.00	-53.0	-54.1	.07118	346.8	.00032783	3.05809265
200.00	-53.9	-55.3	.06286	347.2	.00027354	3.05836619
196.20	-54.9	-55.0	.06605	347.6	.00024992	3.05861612
192.30	-55.7	-55.3	.06537	348.3	.00026150	3.05887762
188.50	-56.7	-56.7	.05558	348.7	.00023448	3.05911210
184.70	-57.5	-58.6	.04383	349.4	.00019272	3.05930482
181.00	-58.6	-62.0	.02810	349.7	.00013576	3.05944058
177.20	-59.4	-65.3	.01812	350.4	.00008960	3.05953018
173.50	-60.6	-67.3	.01387	350.7	.00006039	3.05959058
169.70	-61.2	-68.0	.01287	351.8	.00005184	3.05964242
166.10	-62.7	-68.9	.01147	351.5	.00004470	3.05968712
162.50	-63.4	-69.8	.01032	352.5	.00004002	3.05972715
159.00	-64.4	-70.3	.00984	353.0	.00003599	3.05976313
155.50	-65.7	-71.0	.00902	353.0	.00003368	3.05979681
152.00	-66.8	-71.2	.00895	353.5	.00003208	3.05982889
148.70	-68.0	-71.7	.00844	353.7	.00002928	3.05985817
145.30	-68.8	-72.3	.00788	354.5	.00002831	3.05988649
142.00	-69.7	-74.2	.00602	355.3	.00002341	3.05990990
138.50	-70.0	-75.3	.00526	357.3	.00002015	3.05993004
135.50	-71.3	-75.4	.00526	357.3	.00001609	3.05994613
132.50	-72.0	-75.7	.00509	358.4	.00001584	3.05996197
129.60	-72.7	-77.3	.00407	359.5	.00001355	3.05997552
126.70	-73.0	-77.4	.00411	361.2	.00001210	3.05998762
123.90	-73.4	-76.6	.00477	362.9	.00001268	3.06000030

TRINIDAD,W.I. 10/21/65 1335Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
121.10	-73.7	-76.4	.00504	364.6	.00001401	3.06001431
118.40	-74.4	-76.1	.00539	365.6	.00001436	3.06002867
115.70	-74.8	-76.2	.00540	367.3	.00001486	3.06004353
113.00	-75.2	-77.9	.00421	369.1	.00001322	3.06005675
110.50	-75.6	-79.1	.00356	370.8	.00000989	3.06006664
107.80	-75.9	-77.3	.00489	372.7	.00001162	3.06007826
105.60	-76.3	-78.9	.00386	374.1	.00000980	3.06008807
103.30	-76.7	-81.6	.00251	375.7	.00000747	3.06009553
100.80	-76.3	-80.9	.00289	379.1	.00000688	3.06010242
98.40	-75.6	-79.9	.00349	383.3	.00000781	3.06011023
96.00	-74.8	-80.2	.00345	387.4	.00000849	3.06011872
93.70	-73.7	-79.6	.00390	392.3	.00000861	3.06012733
91.20	-73.0	-79.3	.00416	396.7	.00001027	3.06013760
88.80	-74.1	-80.9	.00328	397.7	.00000910	3.06014670
86.40	-74.8	-83.8	.00207	399.3	.00000654	3.06015325
84.20	-75.6	-86.9	.00124	400.7	.00000371	3.06015696
82.00	-74.8	-86.9	.00127	405.3	.00000282	3.06015977
79.80	-73.4	-83.3	.00248	411.5	.00000420	3.06016397
77.70	-70.0	-82.2	.00304	421.5	.00000590	3.06016988
75.70	-66.3	-82.4	.00300	432.5	.00000615	3.06017603
73.40	-66.0	-82.8	.00293	436.9	.00000694	3.06018297
71.40	-66.0	-83.1	.00285	440.4	.00000589	3.06018886
69.50	-65.5	-83.8	.00257	444.9	.00000525	3.06019410
67.50	-64.4	-84.7	.00229	450.9	.00000495	3.06019905
65.60	-63.9	-84.7	.00235	455.7	.00000449	3.06020354
63.70	-63.9	-84.9	.00235	459.6	.00000456	3.06020810
61.90	-64.2	-84.9	.00239	462.8	.00000435	3.06021245
60.20	-64.7	-85.6	.00220	465.3	.00000398	3.06021643
58.50	-65.2	-86.5	.00193	468.0	.00000358	3.06022000
56.70	-64.2	-86.5	.00200	474.5	.00000361	3.06022361
54.80	-63.4	-86.4	.00210	480.9	.00000396	3.06022757
53.10	-62.9	-86.4	.00217	486.4	.00000370	3.06023127
51.30	-61.9	-86.4	.00224	493.5	.00000404	3.06023531
49.70	-61.0	-86.6	.00224	500.1	.00000365	3.06023896
48.00	-60.6	-86.9	.00217	506.2	.00000381	3.06024277
46.50	-59.7	-87.5	.00203	513.0	.00000320	3.06024598
45.00	-59.0	-88.2	.00186	519.4	.00000297	3.06024894
43.60	-58.6	-88.7	.00175	525.2	.00000256	3.06025150
42.30	-58.1	-88.5	.00187	530.8	.00000240	3.06025390
41.00	-57.5	-88.1	.00207	537.2	.00000261	3.06025651
39.60	-56.9	-87.8	.00226	544.1	.00000308	3.06025960
38.20	-56.3	-89.0	.00189	551.2	.00000297	3.06026256
36.80	-55.7	-90.2	.00156	558.7	.00000246	3.06026502
35.60	-55.3	-90.6	.00152	565.0	.00000188	3.06026690
34.30	-54.7	-90.6	.00158	572.6	.00000206	3.06026895
32.90	-54.3	-91.1	.00149	580.5	.00000219	3.06027114
31.60	-53.7	-91.7	.00140	588.8	.00000191	3.06027305
30.50	-53.2	-92.3	.00130	596.3	.00000151	3.06027456
29.20	-52.6	-92.9	.00121	605.3	.00000165	3.06027621
28.10	-52.4	-93.5	.00112	612.5	.00000130	3.06027751
27.00	-51.7	-94.0	.00106	621.5	.00000122	3.06027873
25.80	-51.3	-94.4	.00103	630.7	.00000127	3.06028000
24.80	-50.8	-94.2	.00110	639.4	.00000107	3.06028107
23.80	-49.9	-94.0	.00120	649.5	.00000116	3.06028223
22.80	-49.1	-93.5	.00138	660.0	.00000131	3.06028354

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P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
22.00	-47.7	-92.9	.00161	670.8	.00000121	3.06028475
21.10	-46.9	-94.4	.00126	681.3	.00000131	3.06028606
20.30	-45.8	-95.3	.00109	692.3	.00000095	3.06028701
19.50	-44.8	-95.0	.00120	703.2	.00000092	3.06028794
18.70	-44.1	-94.2	.00145	714.1	.00000107	3.06028901
17.90	-43.0	-93.5	.00176	726.5	.00000130	3.06029031
17.20	-42.4	-92.5	.00220	736.7	.00000140	3.06029171
16.50	-41.4	-91.8	.00262	748.9	.00000171	3.06029342
15.80	-40.5	-91.6	.00285	761.1	.00000195	3.06029537
15.20	-39.6	-91.6	.00296	772.4	.00000177	3.06029715
14.50	-38.8	-91.9	.00291	785.8	.00000209	3.06029923
13.90	-38.2	-92.0	.00297	797.2	.00000179	3.06030102

TRINIDAD,W.I. 10/22/65 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
457.70	-11.9	-20.1	1.39365	326.6		
452.10	-12.5	-19.8	1.45305	327.0	.00813338	.00813338
446.80	-13.2	-19.5	1.51267	327.3	.00801952	.01615290
438.60	-14.0	-23.9	1.00092	327.9	.01051600	.02666891
434.00	-14.5	-24.7	.93927	328.3	.00455348	.03122239
428.70	-15.3	-21.2	1.33077	328.5	.00613834	.03736073
423.00	-16.2	-22.6	1.17936	328.6	.00729983	.04466055
417.00	-16.7	-23.1	1.13620	329.3	.00708841	.05174896
411.00	-17.4	-24.2	1.04170	329.7	.00666700	.05841596
405.40	-17.9	-24.4	1.03104	330.3	.00592206	.06433803
400.00	-18.8	-26.3	.86421	330.5	.00522156	.06955959
394.70	-19.9	-26.5	.85577	330.3	.00465094	.07421052
389.30	-20.6	-27.4	.79364	330.7	.00454429	.07875481
384.20	-21.3	-27.8	.76982	331.0	.00406817	.08282298
379.20	-22.3	-28.0	.76311	330.9	.00391053	.08673351
374.60	-23.1	-27.8	.78957	331.1	.00364403	.09037754
369.00	-23.9	-27.4	.83736	331.3	.00464837	.09502591
363.60	-24.8	-27.4	.84982	331.6	.00464833	.09967424
358.50	-25.3	-29.5	.69681	332.2	.00402437	.10369861
353.20	-26.2	-33.5	.46435	332.4	.00313985	.10683846
348.10	-26.7	-33.5	.47116	333.1	.00243421	.10927267
343.20	-27.5	-33.0	.50418	333.4	.00243831	.11171098
338.10	-28.1	-33.1	.50279	334.0	.00262015	.11433113
333.30	-28.9	-33.0	.51916	334.3	.00250272	.11683385
328.80	-29.8	-33.0	.52628	334.4	.00240022	.11923407
324.10	-30.7	-33.1	.52453	334.5	.00251977	.12175384
319.70	-31.7	-33.0	.54127	334.5	.00239259	.12414643
315.50	-32.6	-33.0	.54846	334.5	.00233516	.12648159
311.40	-33.5	-33.0	.55571	334.5	.00230977	.12879136
306.80	-34.5	-33.0	.56405	334.6	.00262798	.13141935
302.20	-35.4	-32.6	.59438	334.7	.00271873	.13413808
297.80	-36.0	-34.8	.47864	335.3	.00240880	.13654688
293.20	-36.8	-34.6	.49440	335.6	.00228365	.13883053
288.80	-37.5	-36.6	.40422	336.1	.00201729	.14084782
284.30	-38.3	-39.2	.30571	336.4	.00162993	.14247775
280.00	-39.2	-37.7	.36714	336.6	.00147614	.14395389
275.70	-39.9	-37.2	.39701	337.1	.00167644	.14563033
271.40	-40.9	-38.3	.35593	337.1	.00165185	.14728218
267.30	-41.5	-40.0	.29778	337.7	.00136745	.14864963
263.20	-42.6	-41.2	.26579	337.7	.00117889	.14982852
259.80	-43.5	-41.9	.24777	337.6	.00089085	.15071937
255.20	-44.4	-42.4	.23872	337.9	.00114174	.15186112
250.90	-45.2	-43.7	.20691	338.4	.00097765	.15283877
246.40	-45.8	-47.7	.13139	339.2	.00077669	.15361546
242.00	-46.5	-47.7	.13378	340.0	.00059524	.15421070
238.00	-47.3	-46.4	.15905	340.4	.00059760	.15480830
233.80	-47.9	-45.4	.18323	341.2	.00073346	.15554176
229.80	-48.8	-46.2	.16879	341.6	.00071840	.15626016
226.00	-49.5	-47.3	.15027	342.2	.00061858	.15687874
222.20	-50.0	-52.1	.08478	343.0	.00045571	.15733445
219.30	-50.7	-55.5	.05589	343.2	.00020812	.15754257
215.60	-51.4	-56.9	.04689	343.8	.00019401	.15773658
211.70	-52.3	-58.4	.03953	344.2	.00017196	.15790854
208.00	-52.7	-60.5	.02999	345.3	.00013123	.15803978
204.30	-53.4	-62.6	.02307	345.9	.00010017	.15813994
200.70	-54.2	-64.2	.01877	346.5	.00007685	.15821679

TRINIDAD,W.I. 10/22/65 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
197.20	-54.7	-65.3	.01635	347.3	.00006270	.15827949
193.80	-55.9	-64.8	.01780	347.2	.00005923	.15833873
190.50	-56.7	-65.2	.01725	347.6	.00005901	.15839773
187.00	-57.8	-65.2	.01741	347.8	.00006188	.15845962
184.00	-58.6	-65.4	.01735	348.0	.00005320	.15851282
180.80	-59.5	-65.5	.01731	348.3	.00005659	.15856941
177.70	-60.4	-65.9	.01662	348.6	.00005366	.15862307
174.50	-60.8	-66.1	.01643	349.6	.00005396	.15867703
171.20	-61.8	-66.8	.01519	350.0	.00005324	.15873027
168.00	-63.0	-67.3	.01445	349.9	.00004838	.15877865
164.90	-63.7	-67.7	.01388	350.5	.00004481	.15882346
161.80	-64.5	-67.7	.01401	351.2	.00004411	.15886757
158.80	-65.8	-67.2	.01544	350.8	.00004506	.15891263
156.00	-66.3	-68.4	.01316	351.7	.00004086	.15895349
153.00	-66.9	-70.7	.00964	352.7	.00003490	.15898839
150.00	-67.4	-73.1	.00678	353.7	.00002514	.15901352
147.10	-68.3	-75.5	.00479	354.2	.00001712	.15903065
144.20	-68.6	-75.8	.00467	355.7	.00001399	.15904464
141.20	-68.9	-75.5	.00494	357.4	.00001471	.15905935
138.50	-69.2	-76.5	.00435	358.8	.00001279	.15907213
135.80	-69.5	-76.1	.00469	360.3	.00001244	.15908457
133.20	-69.8	-76.2	.00473	361.7	.00001249	.15909706
130.60	-70.4	-76.8	.00436	362.7	.00001204	.15910910
128.00	-71.4	-77.0	.00429	363.0	.00001147	.15912057
125.40	-72.4	-77.3	.00423	363.4	.00001131	.15913188
122.80	-73.1	-77.5	.00413	364.3	.00001109	.15914297
120.40	-73.8	-77.8	.00406	365.1	.00001001	.15915298
118.00	-74.9	-77.9	.00405	365.2	.00000992	.15916291
115.60	-76.0	-77.9	.00413	365.2	.00001001	.15917292
113.50	-76.8	-77.7	.00436	365.6	.00000909	.15918201
111.20	-77.2	-77.8	.00435	367.0	.00001021	.15919222
106.30	-77.2	-77.8	.00460	371.8	.00002237	.15921459
104.30	-76.8	-77.5	.00486	374.6	.00000964	.15922423
102.30	-76.4	-78.7	.00410	377.4	.00000913	.15923336
100.30	-75.6	-79.5	.00370	381.1	.00000794	.15924130
98.30	-74.9	-79.8	.00359	384.7	.00000742	.15924872
96.30	-73.8	-80.2	.00344	389.1	.00000715	.15925588
94.30	-73.1	-80.8	.00317	392.8	.00000674	.15926261
92.30	-72.0	-80.3	.00350	397.3	.00000679	.15926941
90.30	-72.0	-80.2	.00367	399.8	.00000730	.15927671
88.20	-72.0	-80.1	.00380	402.5	.00000799	.15928470
86.20	-72.0	-80.6	.00356	405.1	.00000750	.15929219
84.30	-72.0	-80.8	.00355	407.7	.00000688	.15929908
82.50	-71.7	-80.9	.00353	410.9	.00000648	.15930556
80.70	-71.7	-81.3	.00342	413.5	.00000638	.15931194
79.00	-71.7	-81.6	.00332	416.0	.00000584	.15931778
77.20	-71.7	-81.9	.00322	418.8	.00000599	.15932377
75.30	-71.4	-82.4	.00304	422.4	.00000606	.15932983
73.50	-71.4	-83.0	.00282	425.4	.00000538	.15933521
71.80	-70.7	-83.0	.00285	429.6	.00000492	.15934013
70.00	-69.2	-83.4	.00276	436.1	.00000516	.15934528
68.00	-67.4	-83.9	.00261	443.4	.00000547	.15935075
66.20	-66.1	-84.7	.00231	449.9	.00000452	.15935527
64.40	-64.7	-84.9	.00230	456.3	.00000423	.15935950
62.80	-65.3	-84.9	.00236	458.5	.00000380	.15936330

TRINIDAD,W.I. 10/22/65 1345Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
61.30	-65.3	-85.1	.00235	461.6	.00000359	.15936689
59.80	-65.3	-85.2	.00237	464.9	.00000361	.15937050
58.30	-65.5	-85.3	.00239	467.7	.00000364	.15937413
56.70	-65.0	-85.8	.00224	472.6	.00000377	.15937790
55.00	-64.2	-86.5	.00206	478.5	.00000373	.15938163
53.30	-63.5	-86.6	.00209	484.6	.00000359	.15938522
51.70	-63.0	-86.5	.00219	490.0	.00000349	.15938871
50.20	-62.0	-86.5	.00226	496.4	.00000340	.15939210
48.80	-61.3	-86.6	.00229	502.1	.00000323	.15939534
47.30	-60.6	-86.6	.00236	508.2	.00000355	.15939888
46.20	-59.7	-86.7	.00237	513.8	.00000265	.15940154
44.80	-59.0	-87.1	.00225	520.0	.00000329	.15940483
43.50	-58.4	-87.5	.00217	526.0	.00000292	.15940775
42.20	-57.8	-87.8	.00212	532.1	.00000283	.15941058
40.80	-57.1	-87.3	.00239	538.8	.00000322	.15941380
39.50	-56.5	-87.5	.00239	545.4	.00000316	.15941696
38.30	-56.1	-88.3	.00214	551.2	.00000276	.15941972
37.00	-55.3	-88.7	.00206	558.7	.00000277	.15942249
35.80	-54.7	-88.9	.00205	565.5	.00000250	.15942499
34.60	-54.2	-89.0	.00208	572.6	.00000252	.15942751

TRINIDAD, W.I. 11/21/65 1420Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
1011.80	27.4	21.4	16.04380	299.5		
993.00	26.8	23.2	18.29355	300.5	.32935698	.32935698
981.00	26.4	19.7	14.84336	301.2	.20287828	.53223526
970.00	25.8	19.7	15.01576	301.5	.16757601	.69981128
958.00	24.8	19.7	15.20844	301.6	.18504538	.88485666
946.00	23.6	19.7	15.40614	301.5	.18743548	1.07229213
932.00	22.9	19.7	15.64338	302.0	.22178143	1.29407357
917.00	21.4	18.0	14.34469	301.9	.22949968	1.52357325
902.00	20.3	16.6	13.27054	302.2	.21134023	1.73491348
886.50	19.7	16.6	13.50761	303.1	.21176513	1.94667861
872.00	19.7	12.6	10.54910	304.6	.17796984	2.12464845
857.00	19.4	11.3	9.89391	305.7	.15645102	2.28109947
843.00	18.1	11.3	10.06088	305.9	.14253369	2.42363316
828.50	17.3	11.3	10.23986	306.5	.15018348	2.57381664
815.00	16.4	9.1	8.95659	307.0	.13221996	2.70603660
802.00	15.9	7.1	7.91671	307.9	.11191434	2.81795093
790.00	15.2	-.3	4.71200	308.5	.07731836	2.89526929
777.00	14.4	7.1	8.17478	309.1	.08547322	2.98074251
764.00	13.6	10.2	10.31163	309.7	.12261343	3.10335594
751.00	12.6	5.2	7.42650	310.1	.11765037	3.22100632
738.00	12.0	3.5	6.68810	311.0	.09361689	3.31462321
724.00	11.2	1.9	6.06043	311.8	.09106059	3.40568380
711.00	10.4	3.5	6.94491	312.6	.08625962	3.49194342
698.00	9.5	2.7	6.66280	313.2	.09025487	3.58219829
686.00	8.6	-1.0	5.12212	313.7	.07215227	3.65435056
673.00	7.7	-1.7	4.92928	314.4	.06666720	3.72101776
661.00	7.2	-1.7	5.01949	315.6	.06091064	3.78192841
650.00	6.5	.4	6.05747	316.2	.06216638	3.84409478
637.50	5.9	.4	6.17742	317.3	.07802834	3.92212312
625.00	4.9	-1.0	5.62656	318.0	.07528020	3.99740332
613.00	4.0	-1.0	5.73772	318.7	.06957696	4.06698029
601.00	3.0	-1.7	5.52506	319.4	.06895553	4.13593581
590.00	1.9	-5.4	4.11648	319.8	.05411048	4.19004630
578.00	1.3	-6.0	4.00064	321.0	.04969645	4.23974274
566.00	.5	-7.0	3.72020	322.0	.04727022	4.28701296
555.00	-.1	-7.0	3.79438	323.1	.04217349	4.32918645
544.00	-.9	-9.5	3.10779	324.0	.03873652	4.36792298
532.00	-1.8	-11.8	2.59762	324.9	.03493093	4.40285391
521.00	-3.0	-13.8	2.20208	325.4	.02693696	4.42979087
510.00	-4.4	-13.8	2.24975	325.8	.02498461	4.45477548
499.00	-5.5	-12.2	2.66420	326.4	.02757813	4.48235361
489.00	-6.6	-10.0	3.31528	327.0	.03050739	4.51286100
474.50	-7.7	-13.0	2.60091	328.4	.04376754	4.55662854
467.00	-8.3	-13.4	2.54945	329.3	.01970795	4.57633649
460.00	-9.0	-10.0	3.52547	329.7	.02169606	4.59803255
453.30	-9.8	-13.0	2.72308	330.2	.02135976	4.61939231
445.70	-10.3	-12.6	2.87607	331.1	.02171090	4.64110321
438.00	-10.7	-13.4	2.71899	332.3	.02198049	4.66308370
432.60	-11.4	-15.0	2.38778	332.5	.01406962	4.67715332
426.20	-12.1	-16.1	2.18991	333.1	.01494752	4.69210084
420.00	-12.8	-17.1	2.01843	333.6	.01331206	4.70541289
413.70	-13.6	-19.4	1.65331	334.1	.01180197	4.71721487
406.90	-14.4	-22.0	1.30786	334.5	.01027340	4.72748826
400.20	-15.2	-22.0	1.32980	335.1	.00901645	4.73650472
394.10	-15.8	-23.0	1.21671	335.8	.00792533	4.74443005
388.00	-16.5	-30.3	.58878	336.3	.00561909	4.75004914

TRINIDAD,W.I. 11/21/65 1420Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
381.60	-17.2	-39.3	.22656	337.1	.00266230	4.75271145
375.00	-17.8	-35.6	.34695	338.0	.00193119	4.75464264
368.00	-18.8	-27.7	.81321	338.5	.00414342	4.75878605
362.00	-19.4	-29.6	.68372	339.2	.00458242	4.76336847
355.70	-20.3	-28.8	.75621	339.8	.00462833	4.76799680
349.20	-21.0	-28.1	.82035	340.6	.00522837	4.77322517
343.00	-21.9	-30.9	.62779	341.1	.00458084	4.77780601
337.00	-23.1	-31.3	.61484	341.2	.00380397	4.78160998
331.00	-24.2	-31.3	.62600	341.4	.00379847	4.78540845
325.00	-25.4	-31.4	.62523	341.6	.00383027	4.78923872
319.20	-26.4	-33.4	.51949	342.0	.00338742	4.79262614
314.00	-27.1	-33.9	.50059	342.5	.00270632	4.79533246
308.60	-28.4	-33.4	.53735	342.5	.00285962	4.79819208
303.00	-29.3	-34.8	.46728	343.0	.00287035	4.80106243
298.00	-30.3	-36.8	.38299	343.2	.00216904	4.80323148
293.00	-31.1	-38.4	.32793	343.7	.00181358	4.80504505
287.70	-32.0	-38.1	.34437	344.2	.00181796	4.80686301
282.40	-33.0	-39.6	.29709	344.7	.00173454	4.80859755
277.20	-34.2	-41.0	.25821	344.8	.00147323	4.81007078
272.20	-35.1	-42.3	.22559	345.3	.00123419	4.81130497
267.20	-36.2	-42.8	.21772	345.5	.00113088	4.81243585
262.30	-37.3	-42.9	.21878	345.7	.00109123	4.81352708
257.20	-38.4	-43.5	.20872	346.0	.00111237	4.81463945
252.30	-39.7	-45.0	.17750	346.0	.00096554	4.81560498
247.50	-40.6	-46.1	.15962	346.6	.00082558	4.81643057
242.50	-41.7	-50.1	.09926	346.9	.00066039	4.81709096
237.50	-42.6	-52.2	.07856	347.6	.00045361	4.81754456
232.50	-44.0	-52.5	.07683	347.7	.00039639	4.81794095
227.50	-45.1	-53.0	.07363	348.2	.00038381	4.81832476
222.50	-46.4	-53.9	.06697	348.4	.00035867	4.81868343
218.00	-47.5	-55.9	.05327	348.7	.00027604	4.81895947
213.00	-48.8	-57.4	.04493	349.0	.00025047	4.81920995
208.00	-49.8	-58.9	.03766	349.7	.00021066	4.81942061
203.00	-51.2	-59.2	.03709	350.0	.00019068	4.81961128
198.40	-52.5	-61.1	.02936	350.3	.00015596	4.81976724
194.00	-53.6	-61.3	.02917	350.7	.00013140	4.81989864
189.60	-54.8	-61.6	.02842	351.2	.00012927	4.82002790
185.50	-56.1	-62.4	.02608	351.2	.00011401	4.82014191
181.60	-57.2	-63.2	.02393	351.7	.00009951	4.82024142
178.00	-58.4	-62.9	.02539	351.6	.00009058	4.82033201
173.80	-59.5	-64.9	.01960	352.2	.00009641	4.82042842
169.60	-60.6	-65.2	.01932	352.8	.00008340	4.82051182
165.40	-61.6	-66.1	.01745	353.8	.00007880	4.82059062
161.30	-63.0	-66.9	.01591	354.0	.00006978	4.82066040
157.50	-64.0	-66.6	.01695	354.7	.00006370	4.82072410
153.70	-65.5	-66.5	.01771	354.5	.00006719	4.82079129
150.00	-66.6	-69.1	.01247	355.2	.00005697	4.82084826
146.50	-68.0	-70.6	.01012	355.1	.00004032	4.82088858
143.00	-68.9	-71.7	.00879	356.0	.00003377	4.82092234
139.60	-69.8	-71.6	.00910	356.9	.00003104	4.82095338
136.30	-70.7	-71.7	.00923	357.7	.00003085	4.82098423
132.80	-71.7	-72.3	.00872	358.6	.00003204	4.82101627
129.40	-72.7	-72.9	.00805	359.5	.00002907	4.82104534
126.00	-73.8	-74.2	.00682	360.3	.00002578	4.82107112
122.70	-74.9	-75.0	.00621	361.1	.00002192	4.82109304

TRINIDAD,W.I. 11/21/65 1420Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
119.30	-75.6	-75.8	.00565	362.6	.00002055	4.82111359
116.10	-75.6	-77.1	.00472	365.5	.00001693	4.82113051
112.80	-75.2	-78.9	.00361	369.2	.00001402	4.82114454
109.70	-76.0	-80.5	.00285	370.7	.00001019	4.82115473
106.70	-76.8	-81.6	.00246	372.1	.00000812	4.82116285
103.60	-77.6	-82.0	.00237	373.7	.00000764	4.82117049
100.50	-78.9	-82.3	.00231	374.5	.00000741	4.82117790
97.50	-79.3	-82.5	.00229	376.9	.00000703	4.82118493
94.80	-80.2	-82.8	.00226	378.2	.00000626	4.82119119
92.00	-80.7	-83.1	.00220	380.5	.00000636	4.82119755
89.20	-80.7	-83.3	.00220	383.9	.00000627	4.82120383
86.70	-80.7	-83.3	.00227	387.0	.00000569	4.82120952
84.00	-80.2	-83.3	.00234	391.5	.00000633	4.82121585
81.60	-79.3	-83.2	.00244	396.6	.00000584	4.82122169
79.10	-77.6	-82.8	.00270	403.7	.00000656	4.82122825
76.60	-76.8	-82.2	.00308	409.1	.00000738	4.82123563
74.10	-75.6	-81.2	.00374	415.5	.00000870	4.82124433
71.60	-71.1	-81.4	.00377	429.3	.00000958	4.82125391
69.20	-68.3	-82.0	.00355	439.4	.00000896	4.82126287
66.80	-67.7	-82.6	.00330	445.1	.00000837	4.82127124
64.70	-67.5	-82.5	.00345	449.8	.00000721	4.82127845
62.50	-67.2	-83.1	.00324	454.9	.00000750	4.82128595
60.60	-66.9	-83.5	.00315	459.5	.00000618	4.82129213
58.70	-66.6	-84.1	.00289	464.3	.00000586	4.82129799
56.40	-65.8	-84.5	.00283	471.5	.00000672	4.82130471
54.30	-64.7	-84.6	.00290	479.1	.00000614	4.82131085
52.50	-63.7	-85.0	.00278	486.1	.00000522	4.82131606
50.70	-63.0	-84.9	.00292	492.7	.00000523	4.82132129
48.90	-62.0	-84.9	.00303	500.1	.00000545	4.82132675
47.20	-60.9	-85.8	.00268	508.0	.00000495	4.82133169
45.50	-59.7	-86.2	.00261	516.0	.00000459	4.82133628
43.70	-59.1	-86.3	.00267	523.6	.00000484	4.82134113
42.00	-58.4	-86.3	.00278	531.2	.00000472	4.82134585
40.40	-57.4	-86.4	.00284	539.8	.00000459	4.82135044
38.90	-56.8	-86.5	.00291	547.2	.00000440	4.82135484
37.40	-56.4	-86.7	.00292	554.4	.00000446	4.82135929
36.00	-55.5	-86.9	.00294	562.6	.00000417	4.82136346
34.50	-55.2	-87.0	.00301	570.5	.00000454	4.82136801
33.00	-54.8	-86.9	.00320	578.8	.00000475	4.82137276
31.60	-54.6	-87.0	.00324	586.5	.00000459	4.82137735
30.20	-54.6	-87.1	.00333	594.2	.00000468	4.82138203
28.80	-54.6	-87.2	.00343	602.3	.00000481	4.82138684
27.40	-54.6	-87.3	.00355	610.9	.00000498	4.82139182
26.00	-54.8	-87.1	.00387	619.6	.00000529	4.82139711
24.50	-54.8	-87.0	.00417	630.2	.00000614	4.82140325
22.70	-53.8	-87.0	.00451	646.9	.00000796	4.82141121
21.30	-52.3	-87.3	.00456	663.2	.00000647	4.82141767
20.00	-50.5	-87.8	.00445	680.7	.00000598	4.82142365
18.80	-49.0	-88.0	.00457	697.7	.00000551	4.82142916
17.70	-47.5	-88.2	.00468	714.6	.00000519	4.82143435
16.70	-46.2	-88.3	.00488	730.7	.00000487	4.82143922
15.90	-45.4	-88.7	.00476	743.7	.00000393	4.82144316
15.10	-44.5	-88.8	.00492	757.8	.00000395	4.82144710
14.40	-43.7	-89.1	.00488	770.7	.00000349	4.82145059
13.70	-43.1	-89.0	.00523	783.9	.00000361	4.82145420

TRINIDAD,W.I. 11/21/65 1420Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
13.10	-42.2	-89.2	.00526	797.1	.00000320	4.82145740
12.40	-41.6	-89.5	.00535	811.8	.00000378	4.82146119
11.80	-40.8	-89.6	.00552	826.0	.00000332	4.82146451
11.30	-40.1	-89.7	.00566	838.8	.00000285	4.82146735
10.70	-39.4	-89.7	.00597	854.7	.00000355	4.82147090
10.20	-38.7	-89.7	.00627	869.1	.00000311	4.82147402
9.70	-38.1	-89.8	.00646	883.7	.00000323	4.82147725

TRINIDAD, W.I. 12/14/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
994.00	24.7	9.9	7.71343	298.3		
982.00	24.7	12.2	9.14611	299.4	.10322125	.10322125
970.00	24.7	19.4	14.75099	300.4	.14630817	.24952942
959.00	20.5	21.1	16.60060	297.2	.17595205	.42548147
947.00	22.5	21.1	16.81664	300.3	.20459451	.63007598
934.00	22.6	14.8	11.42611	301.6	.18732359	.81739956
921.00	21.6	17.7	14.01113	301.7	.16871570	.98611526
908.00	20.7	9.9	8.45393	302.0	.14900233	1.13511759
894.00	21.6	19.4	16.03732	304.3	.17493676	1.31005435
882.00	20.5	12.2	10.20009	304.4	.16063656	1.47069091
870.00	20.1	11.0	9.52171	305.2	.12074526	1.59143616
857.00	19.6	5.7	6.73679	306.0	.10783659	1.69927275
843.00	18.4	12.2	10.68008	306.2	.12440576	1.82367851
829.00	17.1	11.0	10.00020	306.2	.14771575	1.97139426
814.00	16.7	11.0	10.18750	307.4	.15449712	2.12589137
800.00	16.1	9.9	9.61284	308.3	.14143047	2.26732184
786.00	15.1	6.7	7.87304	308.8	.12489870	2.39222054
772.00	14.1	7.7	8.58411	309.3	.11755061	2.50977115
756.00	12.9	6.7	8.18958	309.8	.13692752	2.64669867
741.00	11.6	6.7	8.35759	310.2	.12663600	2.77333467
728.00	10.2	7.7	9.11053	310.3	.11585948	2.88919415
714.00	9.2	5.7	8.10362	310.8	.12295766	3.01215181
700.00	8.6	4.8	7.75843	311.9	.11329985	3.12545165
687.00	8.1	3.1	6.96985	313.1	.09768716	3.22313881
674.00	7.5	-4.1	4.03056	314.2	.07296158	3.29610039
661.00	6.8	-1.5	5.13148	315.1	.06076837	3.35686876
649.00	6.1	.7	6.22142	315.9	.06950727	3.42637603
636.00	5.3	-.8	5.64900	317.0	.07873201	3.50510804
622.00	4.1	-7.0	3.40541	317.5	.06467402	3.56978206
609.00	2.5	-7.0	3.47851	317.6	.04565841	3.61544047
596.00	1.5	-7.0	3.55481	318.5	.04664937	3.66208984
584.00	.6	-8.0	3.30885	319.2	.04202223	3.70411207
572.00	-.4	-14.7	1.85260	320.0	.03160058	3.73571265
561.00	-1.3	-12.3	2.36217	320.6	.02365421	3.75936686
549.00	-2.3	-10.5	2.83330	321.5	.03180881	3.79117566
536.00	-3.1	-15.4	1.84410	322.8	.03102343	3.82219909
526.00	-3.9	-24.0	.82608	323.6	.01362333	3.83582242
516.30	-4.8	-17.6	1.56769	324.2	.01184665	3.84766906
505.00	-6.0	-12.3	2.62521	324.8	.02417324	3.87184231
494.70	-7.4	-11.8	2.78473	325.0	.02842972	3.90027203
484.30	-8.7	-13.1	2.53618	325.4	.02823329	3.92850532
474.00	-9.6	-12.3	2.79768	326.3	.02802983	3.95653515
464.00	-10.6	-13.1	2.64761	327.0	.02778195	3.98431709
454.00	-10.8	-26.6	.73502	328.7	.01725821	4.00157531
443.70	-10.5	-47.2	.07735	331.3	.00426906	4.00584437
434.00	-11.5	-47.1	.08002	332.2	.00077882	4.00662319
424.00	-12.8	-46.7	.08601	332.7	.00084709	4.00747028
412.30	-14.9	-52.8	.04172	332.6	.00076243	4.00823271
405.60	-15.9	-54.9	.03260	332.9	.00025402	4.00848673
399.00	-16.9	-55.4	.03115	333.1	.00021465	4.00870138
392.00	-17.7	-59.9	.01741	333.8	.00017342	4.00887480
385.50	-18.4	-58.6	.02112	334.4	.00012776	4.00900257
379.00	-19.5	-61.1	.01525	334.7	.00012062	4.00912319
372.30	-20.5	-60.6	.01662	335.1	.00010896	4.00923215
366.00	-21.7	-58.9	.02117	335.1	.00012149	4.00935364
360.00	-22.8	-57.1	.02760	335.3	.00014931	4.00950295

TRINIDAD,W.I. 12/14/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
353.20	-23.4	-59.2	.02131	336.2	.00016969	4.00967264
347.00	-24.2	-48.9	.08090	336.9	.00032331	4.00999595
340.30	-25.1	-45.4	.12598	337.5	.00070716	4.01070312
334.00	-25.9	-47.1	.10398	338.3	.00073914	4.01144226
329.00	-26.8	-43.2	.16906	338.5	.00069654	4.01213880
323.00	-27.8	-39.2	.27128	338.8	.00134797	4.01348677
317.20	-29.0	-38.1	.31237	338.9	.00172710	4.01521388
312.00	-30.1	-36.0	.39787	339.1	.00188428	4.01709816
307.00	-31.2	-36.8	.37242	339.1	.00196500	4.01906316
301.00	-32.2	-41.7	.21778	339.5	.00180672	4.02086988
295.00	-33.5	-42.2	.21015	339.7	.00130996	4.02217984
289.00	-34.5	-40.4	.26528	340.3	.00145537	4.02363521
283.30	-35.7	-39.8	.28706	340.4	.00160627	4.02524148
277.80	-37.0	-39.7	.29701	340.5	.00163895	4.02688043
272.20	-38.1	-40.2	.28585	341.0	.00166529	4.02854572
267.00	-39.4	-41.2	.25970	340.9	.00144738	4.02999310
262.00	-40.6	-42.6	.22717	341.0	.00124203	4.03123513
257.30	-41.8	-44.5	.18450	340.9	.00098717	4.03222230
252.00	-43.1	-45.3	.17224	341.1	.00096464	4.03318694
246.50	-44.1	-47.2	.13925	341.8	.00087406	4.03406100
241.70	-45.2	-49.7	.10471	342.0	.00059743	4.03465843
237.00	-46.4	-50.0	.10320	342.1	.00049853	4.03515697
232.50	-47.8	-50.0	.10519	341.9	.00047843	4.03563540
228.10	-48.7	-50.2	.10484	342.4	.00047149	4.03610688
223.80	-49.8	-50.9	.09769	342.6	.00044431	4.03655119
219.50	-50.7	-53.1	.07589	343.1	.00038080	4.03693199
215.30	-51.6	-54.4	.06537	343.5	.00030269	4.03723468
211.00	-53.0	-54.0	.07028	343.4	.00029761	4.03753228
206.00	-54.2	-55.9	.05615	343.9	.00032254	4.03785482
201.40	-55.2	-56.5	.05297	344.5	.00025609	4.03811091
197.00	-56.5	-58.0	.04475	344.6	.00021935	4.03833026
192.50	-57.2	-59.5	.03759	345.9	.00018902	4.03851928
188.30	-58.5	-60.4	.03384	345.9	.00015303	4.03867231
184.70	-59.0	-61.5	.02982	347.0	.00011691	4.03878923
181.00	-59.9	-62.6	.02608	347.5	.00010550	4.03889473
177.00	-61.1	-64.1	.02157	347.7	.00009723	4.03899196
173.20	-62.2	-67.6	.01334	348.2	.00006767	4.03905962
169.50	-62.9	-68.0	.01286	349.1	.00004944	4.03910907
165.70	-64.5	-67.7	.01367	348.7	.00005144	4.03916050
161.80	-65.7	-67.7	.01414	349.1	.00005534	4.03921585
158.00	-66.8	-68.5	.01275	349.5	.00005214	4.03926799
154.00	-68.1	-68.7	.01283	350.0	.00005221	4.03932020
150.80	-69.7	-69.6	.01141	349.4	.00003958	4.03935978
147.30	-70.7	-70.9	.00966	350.0	.00003763	4.03939740
143.50	-71.7	-72.0	.00843	350.8	.00003508	4.03943248
140.00	-73.2	-72.4	.00804	350.7	.00002940	4.03946188
136.70	-74.0	-74.9	.00563	351.7	.00002301	4.03948489
133.50	-73.6	-79.9	.00259	354.8	.00001341	4.03949830
130.50	-73.2	-80.0	.00262	357.8	.00000796	4.03950626
127.00	-73.6	-79.8	.00276	359.9	.00000960	4.03951585
123.80	-74.3	-80.1	.00272	361.1	.00000894	4.03952479
120.70	-74.8	-80.5	.00259	363.0	.00000839	4.03953318
117.80	-75.2	-80.7	.00255	364.8	.00000760	4.03954078
115.00	-76.0	-81.7	.00223	365.8	.00000684	4.03954762
112.20	-77.3	-82.5	.00200	365.9	.00000605	4.03955367

TRINIDAD,W.I. 12/14/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
109.30	-78.2	-83.5	.00174	367.0	.00000553	4.03955920
106.60	-79.6	-84.7	.00145	366.9	.00000438	4.03956358
103.80	-80.6	-84.4	.00156	367.8	.00000429	4.03956787
101.20	-81.7	-84.7	.00153	368.5	.00000408	4.03957196
98.50	-82.2	-85.0	.00148	370.2	.00000413	4.03957608
95.80	-82.8	-85.0	.00152	372.1	.00000411	4.03958020
93.20	-83.3	-85.3	.00149	373.9	.00000398	4.03958417
90.50	-82.8	-85.5	.00149	378.2	.00000410	4.03958827
87.80	-82.2	-85.5	.00153	382.6	.00000416	4.03959243
85.20	-82.8	-85.6	.00156	384.8	.00000408	4.03959651
83.00	-80.1	-85.7	.00157	393.1	.00000350	4.03960001
80.70	-78.2	-85.5	.00167	400.2	.00000380	4.03960381
78.40	-77.7	-84.9	.00191	404.5	.00000420	4.03960802
76.00	-77.3	-84.0	.00229	409.0	.00000514	4.03961316
73.90	-77.3	-83.9	.00239	412.3	.00000501	4.03961816
71.80	-75.6	-84.6	.00218	419.4	.00000489	4.03962305
69.80	-73.6	-84.9	.00215	427.0	.00000441	4.03962746
67.80	-72.1	-85.2	.00208	433.8	.00000431	4.03963177
66.00	-72.1	-85.1	.00217	437.1	.00000389	4.03963566
64.00	-72.4	-85.4	.00214	440.2	.00000438	4.03964004
62.00	-72.8	-85.9	.00201	443.4	.00000422	4.03964426
60.20	-72.1	-86.3	.00194	448.8	.00000362	4.03964788
58.20	-71.4	-87.6	.00159	454.7	.00000359	4.03965147
56.30	-70.3	-88.2	.00148	461.4	.00000297	4.03965443
54.40	-69.7	-88.3	.00150	467.5	.00000288	4.03965731
52.70	-68.4	-87.9	.00166	474.8	.00000274	4.03966005
51.20	-67.1	-88.2	.00162	481.6	.00000250	4.03966255
49.70	-66.3	-88.4	.00161	487.8	.00000247	4.03966503
48.30	-65.1	-88.7	.00157	494.5	.00000226	4.03966729
46.80	-64.5	-89.3	.00145	500.4	.00000231	4.03966960
45.40	-64.3	-88.6	.00170	505.4	.00000225	4.03967185
44.00	-63.7	-88.8	.00169	511.2	.00000241	4.03967427
42.40	-62.7	-89.6	.00151	519.3	.00000261	4.03967687
41.00	-61.9	-89.6	.00156	526.2	.00000219	4.03967907
39.70	-61.1	-90.5	.00138	533.0	.00000195	4.03968102
38.40	-60.2	-90.5	.00143	540.6	.00000186	4.03968288
37.10	-59.4	-90.6	.00145	547.7	.00000189	4.03968477
35.90	-58.8	-91.0	.00141	554.7	.00000174	4.03968652
34.60	-58.1	-91.2	.00140	562.4	.00000185	4.03968836
33.40	-57.8	-91.6	.00133	568.7	.00000167	4.03969003
32.10	-57.6	-92.0	.00130	575.8	.00000174	4.03969178
30.80	-57.6	-91.9	.00139	582.6	.00000177	4.03969355
29.60	-57.4	-94.1	.00095	589.9	.00000142	4.03969496
28.50	-57.2	-93.7	.00106	596.9	.00000112	4.03969608
27.40	-56.9	-92.3	.00142	604.3	.00000139	4.03969747
26.20	-55.2	-93.1	.00130	616.9	.00000165	4.03969912
25.10	-53.4	-93.2	.00132	629.8	.00000146	4.03970058
24.00	-51.4	-92.2	.00166	643.6	.00000167	4.03970225
22.90	-49.8	-92.7	.00159	657.2	.00000182	4.03970407
21.80	-48.1	-93.8	.00135	671.3	.00000164	4.03970571
20.80	-46.4	-94.9	.00116	685.6	.00000127	4.03970698
19.90	-45.2	-95.4	.00109	698.0	.00000103	4.03970800
19.10	-45.1	-95.4	.00113	706.7	.00000089	4.03970890
18.30	-46.1	-94.7	.00135	712.2	.00000101	4.03970991
17.50	-45.4	-94.5	.00149	723.5	.00000115	4.03971106

TRINIDAD,W.I. 12/14/65 1330Z

P (mb)	T (°C)	F (°C)	w (g/kg)	θ (°K)	M (cm)	ΣM (cm)
16.80	-44.6	-94.0	.00171	734.7	.00000113	4.03971219
16.20	-44.2	-92.8	.00220	743.4	.00000119	4.03971338
15.60	-43.6	-92.6	.00239	753.6	.00000250	4.03971589
15.10	-43.0	-92.7	.00242	762.8	.00000122	4.03971711
14.70	-42.5	-93.1	.00232	770.3	.00000095	4.03971806
14.20	-42.0	-92.5	.00269	779.5	.00000127	4.03971933
13.80	-41.4	-91.9	.00309	788.0	.00000118	4.03972051
13.30	-40.9	-91.6	.00335	798.0	.00000164	4.03972214
12.90	-40.5	-90.7	.00408	806.5	.00000151	4.03972365

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Security Classification

DOCUMENT CONTROL DATA - R&D

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1. ORIGINATING ACTIVITY *(Corporate author)* Naval Research Laboratory Washington, D.C. 20390	2a. REPORT SECURITY CLASSIFICATION Unclassified 2b. GROUP

3. REPORT TITLE

WATER VAPOR OBSERVATIONS AT LOW, MIDDLE, AND HIGH LATITUDES DURING 1964 and 1965

4. DESCRIPTIVE NOTES *(Type of report and inclusive dates)*

Final report on one phase of the problem

5. AUTHOR(S) *(Last name, first name, initial)*

Mastenbrook, Henry J.

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10. AVAILABILITY/LIMITATION NOTICES

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11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY Department of the Navy (Naval Air Systems Command and Office of Naval Research), Washington, D.C. 20360

13. ABSTRACT

The vertical distribution of water vapor to stratospheric levels has been measured over Washington, D.C.; Trinidad, West Indies; and Thule, Greenland, during 1964 and 1965, the period of the International Years of the Quiet Sun. The data for fifty-one soundings are presented individually in graphs and tables.

DD FORM 1 JAN 64 1473

Security Classification

14. KEY WORDS	LINK A ROLE	LINK A WT	LINK B ROLE	LINK B WT	LINK C ROLE	LINK C WT
Atmosphere						
Water vapor						
Measurement						
Data						
Hydrometers						
Atmospheric sounding						
Meteorological balloons						
Atmospheric temperature						
Barometric pressure						
Stratosphere						
Troposphere						
District of Columbia						
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