

91285 PHTO Hilo Observations at 00Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1014.0	12	28.0	20.0	62	14.74	350	8	300.0	343.3	302.6
1007.0	73	26.0	19.0	65	13.93	358	8	298.6	339.3	301.1
980.7	305	23.8	18.1	70	13.48	30	10	298.6	338.1	301.0
947.1	610	20.9	16.8	77	12.89	45	9	298.7	336.4	301.0
941.0	666	20.4	16.6	79	12.79	44	9	298.7	336.1	301.0
934.0	731	20.2	15.2	73	11.76	43	9	299.1	333.7	301.2
914.3	914	18.9	14.3	74	11.32	40	8	299.7	333.0	301.7
891.0	1136	17.4	13.2	76	10.81	18	4	300.3	332.3	302.2
882.4	1219	17.6	11.9	70	10.05	10	2	301.3	331.2	303.1
880.0	1243	17.6	11.6	68	9.84	13	2	301.6	330.9	303.4
862.0	1419	16.8	10.8	68	9.52	33	4	302.5	331.1	304.2
842.0	1619	15.2	10.2	72	9.36	56	5	302.9	331.0	304.6
825.0	1792	13.8	11.0	83	10.09	76	7	303.2	333.4	305.0
821.4	1829	14.3	9.3	72	9.06	80	7	304.1	331.4	305.8
818.0	1864	14.8	7.8	63	8.18	80	7	305.0	329.8	306.5
815.0	1895	15.0	8.0	63	8.32	80	7	305.5	330.9	307.0
800.0	2052	13.6	9.3	75	9.27	80	7	305.6	333.8	307.3
792.3	2134	13.4	8.1	70	8.59	80	7	306.3	332.5	307.9
781.0	2255	13.2	6.2	63	7.67	82	9	307.3	330.9	308.7
772.0	2352	13.4	-1.6	35	4.43	84	11	308.5	322.6	309.4
766.0	2418	12.8	-0.2	41	4.95	85	12	308.6	324.2	309.5
764.2	2438	12.8	-2.9	33	4.05	85	12	308.8	321.7	309.6
760.0	2484	12.8	-9.2	21	2.52	90	11	309.3	317.5	309.8
753.0	2561	12.2	-6.8	26	3.06	97	10	309.4	319.4	310.0
748.0	2617	11.6	2.6	54	6.21	103	8	309.4	328.8	310.5
746.0	2640	11.2	4.2	62	6.98	105	8	309.2	330.9	310.5
736.8	2743	11.9	-1.0	41	4.86	115	6	311.0	326.5	311.9
735.0	2764	12.0	-2.0	38	4.52	114	6	311.4	325.8	312.2
731.0	2809	12.6	-9.4	21	2.58	111	6	312.5	321.1	313.0
724.0	2890	12.6	-10.4	19	2.40	106	6	313.4	321.4	313.8
676.0	3461	9.4	-19.6	11	1.20	72	8	316.0	320.2	316.2
668.0	3560	9.8	-22.2	9	0.97	66	8	317.5	321.0	317.7
660.1	3658	9.2	-15.8	16	1.71	60	8	317.9	323.8	318.2
658.0	3685	9.0	-14.0	18	1.98	58	8	318.0	324.8	318.4
630.0	4044	8.0	-19.0	13	1.36	28	11	320.8	325.6	321.1
624.0	4122	7.4	-14.6	19	1.99	22	12	321.0	327.9	321.4
613.0	4267	6.2	-15.4	20	1.88	10	13	321.2	327.8	321.6
596.0	4498	4.2	-16.8	20	1.73	6	12	321.6	327.6	321.9
568.5	4877	1.8	-20.5	17	1.32	0	9	323.1	327.8	323.3
535.0	5366	-1.3	-25.3	14	0.92	4	11	325.0	328.4	325.2
524.0	5531	-1.7	-35.7	5	0.35	5	12	326.5	327.9	326.6
509.0	5762	-3.1	-27.1	14	0.82	7	13	327.5	330.6	327.7
504.0	5840	-3.7	-21.7	23	1.35	8	14	327.7	332.6	328.0
487.7	6096	-5.5	-24.5	21	1.09	10	15	328.6	332.6	328.8
454.0	6655	-9.5	-30.5	16	0.67	341	13	330.4	332.9	330.5
438.0	6931	-11.3	-27.3	25	0.94	326	12	331.5	335.0	331.7
416.4	7315	-14.3	-30.8	23	0.71	305	11	332.4	335.1	332.6
400.0	7620	-16.8	-33.6	22	0.56	305	17	333.1	335.3	333.2
395.0	7714	-17.5	-34.5	21	0.52	298	17	333.4	335.4	333.5
378.0	8043	-17.9	-38.9	14	0.35	274	19	337.0	338.5	337.1
368.6	8230	-18.9	-47.1	6	0.15	260	20	338.1	338.7	338.1
360.0	8407	-19.9	-54.9	3	0.06	272	20	339.1	339.4	339.1
353.8	8534	-20.9	-54.3	3	0.07	280	20	339.5	339.8	339.5

325.4	9144	-25.4	-51.5	7	0.10	265	20	341.4	341.9	341.4
311.0	9474	-27.9	-49.9	10	0.13	276	22	342.4	343.0	342.4
274.2	10363	-35.6	-62.0	5	0.03	305	27	343.9	344.0	343.9
270.0	10471	-36.5	-63.5	4	0.03	302	27	344.0	344.1	344.0
234.0	11444	-45.5	-53.5	40	0.11	270	26	344.7	345.2	344.8
229.2	11582	-46.5	-56.4	32	0.08	265	26	345.3	345.6	345.3
219.0	11882	-48.7	-62.7	18	0.04	270	29	346.4	346.6	346.4
206.0	12281	-52.5	-66.5	17	0.02	276	34	346.5	346.6	346.5
181.0	13106	-58.3	-76.1	8	0.01	290	43	350.2	350.2	350.2
180.0	13140	-58.5	-76.5	8	0.01	290	43	350.4	350.4	350.4
148.0	14339	-69.5	-79.5	22	0.00	273	33	351.5	351.6	351.5
126.8	15240	-76.5	-87.3	17	0.00	260	26	354.7	354.7	354.7
123.0	15419	-77.9	-88.9	16	0.00			355.3	355.3	355.3
119.0	15608	-78.5	-89.5	16	0.00			357.6	357.6	357.6
116.0	15753	-78.1	-88.1	19	0.00			360.9	361.0	360.9
111.0	16006	-76.3	-87.3	16	0.00			368.9	368.9	368.9
109.0	16112	-72.9	-85.9	12	0.00			377.2	377.2	377.2
103.0	16444	-72.1	-84.1	15	0.00			384.9	384.9	384.9

Station information and sounding indices

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Station identifier: PHTO
Station number: 91285
Observation time: 150724/0000
Station latitude: 19.72
Station longitude: -155.05
Station elevation: 12.0
Showalter index: 6.71
Lifted index: 3.38
LIFT computed using virtual temperature: 2.89
SWEAT index: 148.38
K index: 4.48
Cross totals index: 14.58
Vertical totals index: 19.99
Totals totals index: 34.57
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.52
Convective Inhibition: 0.00
CINS using virtual temperature: -23.45
Equilibrium Level using virtual temperature: 825.13
LFCT using virtual temperature: 825.76
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.45
Temp [K] of the Lifted Condensation Level: 290.03
Pres [hPa] of the Lifted Condensation Level: 902.20
Mean mixed layer potential temperature: 298.69
Mean mixed layer mixing ratio: 13.61
1000 hPa to 500 hPa thickness: 5767.55
Precipitable water [mm] for entire sounding: 33.31

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Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)

