

71867 YQD The Pas Observations

at 12Z 19 Apr 2010

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	194									
990.0	274	1.0	-2.6	77	3.20	70	6	274.9	283.9	275.5
987.0	298	1.0	-1.5	83	3.49	74	19	275.2	284.9	275.8
986.2	305	1.0	-1.5	83	3.49	75	22	275.2	285.0	275.8
968.0	455	1.0	-1.4	84	3.58	80	22	276.7	286.7	277.3
961.0	514	2.8	-0.4	79	3.88	82	21	279.1	290.0	279.8
959.0	531	4.4	0.3	75	4.10	82	21	280.9	292.5	281.6
949.8	610	9.9	-4.2	37	2.96	85	21	287.2	296.0	287.8
949.0	617	10.4	-4.6	35	2.88	87	21	287.8	296.4	288.3
941.0	688	12.8	-6.2	26	2.57	104	16	291.0	298.8	291.4
925.0	832	12.4	-6.6	26	2.53	140	7	292.0	299.7	292.4
915.9	914	11.8	-7.1	26	2.46	135	9	292.2	299.7	292.6
882.8	1219	9.5	-8.9	26	2.21	155	7	292.9	299.7	293.3
854.0	1494	7.4	-10.6	27	2.01	120	5	293.5	299.7	293.9
850.0	1533	7.2	-8.8	31	2.32	115	5	293.7	300.9	294.1
819.4	1829	4.3	-8.6	38	2.45	100	7	293.7	301.2	294.1
789.0	2134	1.3	-8.4	48	2.58	80	10	293.7	301.6	294.2
759.8	2438	-1.6	-8.2	61	2.72	60	12	293.7	302.0	294.2
740.0	2651	-3.7	-8.1	72	2.82	46	11	293.7	302.3	294.2
731.4	2743	-4.2	-10.6	61	2.34	40	10	294.1	301.4	294.6
729.0	2769	-4.3	-11.3	58	2.22	39	9	294.3	301.1	294.7
723.0	2834	-3.5	-22.5	21	0.87	37	8	295.8	298.7	296.0
700.0	3089	-4.5	-33.5	8	0.33	30	3	297.5	298.6	297.5
674.0	3386	-5.7	-40.7	4	0.16	35	7	299.4	300.0	299.4
650.8	3658	-7.0	-39.5	6	0.19	40	10	300.9	301.6	300.9
629.0	3924	-8.3	-38.3	7	0.22	25	10	302.4	303.2	302.4
601.6	4267	-10.8	-44.5	4	0.12	5	10	303.4	303.9	303.4
600.0	4287	-10.9	-44.9	4	0.12	4	10	303.5	303.9	303.5
591.0	4403	-11.7	-24.7	33	0.88	356	12	303.8	306.8	304.0
578.0	4572	-12.8	-27.0	29	0.73	345	15	304.5	307.0	304.6
570.0	4679	-13.5	-28.5	27	0.64	352	15	304.9	307.1	305.0
563.0	4773	-14.1	-25.1	39	0.89	358	16	305.3	308.3	305.4
558.0	4840	-14.5	-28.5	29	0.66	3	16	305.6	307.9	305.7
555.3	4877	-14.8	-29.4	28	0.61	5	16	305.7	307.8	305.8
537.0	5129	-16.7	-35.7	18	0.34	2	17	306.3	307.5	306.4
524.0	5312	-18.3	-28.3	41	0.71	359	18	306.5	309.0	306.7
520.0	5370	-18.7	-32.7	28	0.47	359	19	306.7	308.4	306.8
501.0	5645	-21.1	-37.1	22	0.32	355	20	307.1	308.2	307.1
500.0	5660	-21.3	-36.3	25	0.35	355	20	307.0	308.3	307.1
491.2	5791	-22.5	-26.4	70	0.90	345	21	307.1	310.2	307.3
491.0	5794	-22.5	-26.2	72	0.92	345	21	307.1	310.3	307.3
471.0	6096	-24.9	-29.0	69	0.74	350	21	307.8	310.4	307.9
421.0	6908	-31.5	-36.5	61	0.40	359	20	309.4	310.9	309.5
415.0	7010	-32.3	-37.9	58	0.36	0	20	309.7	311.0	309.7
400.0	7270	-34.3	-41.3	49	0.26	350	19	310.3	311.3	310.4
393.0	7393	-35.3	-41.3	54	0.26	348	19	310.6	311.6	310.6
380.3	7620	-37.0	-48.6	29	0.12	345	20	311.2	311.7	311.2
377.0	7681	-37.5	-50.5	24	0.10	344	20	311.4	311.8	311.4
341.0	8363	-43.5	-54.5	29	0.07	338	22	312.3	312.6	312.3
319.0	8807	-46.9	-60.9	19	0.03	333	24	313.6	313.7	313.6
303.1	9144	-50.1	-59.4	32	0.04	330	25	313.7	313.9	313.8

302.0	9167	-50.3	-59.3	34	0.04	330	25	313.8	313.9	313.8
300.0	9210	-50.5	-58.5	38	0.05	330	25	314.1	314.3	314.1
293.0	9364	-51.7	-59.7	38	0.04	330	24	314.5	314.7	314.5
289.2	9449	-52.3	-60.7	35	0.04	330	24	314.9	315.0	314.9
276.0	9751	-54.3	-64.3	28	0.02	315	22	316.1	316.2	316.1
275.9	9754	-54.3	-64.3	28	0.02	315	22	316.1	316.3	316.2
263.0	10058	-56.7	-65.8	31	0.02	320	24	317.0	317.1	317.0
250.0	10380	-59.3	-67.3	35	0.02	310	28	317.8	317.9	317.8
240.0	10634	-60.7	-68.7	34	0.02	310	30	319.4	319.5	319.4
238.7	10668	-60.6	-68.8	33	0.02	310	31	320.1	320.1	320.1
230.0	10899	-59.7	-69.7	26	0.01	318	23	324.8	324.9	324.8
227.3	10973	-59.9	-70.4	24	0.01	320	21	325.6	325.6	325.6
216.4	11278	-60.9	-73.4	18	0.01	295	18	328.7	328.7	328.7
214.0	11348	-61.1	-74.1	16	0.01	302	19	329.4	329.5	329.4
209.0	11495	-60.5	-73.5	17	0.01	316	22	332.6	332.6	332.6
208.0	11525	-58.9	-72.9	15	0.01	319	22	335.6	335.6	335.6
206.1	11582	-59.4	-73.8	14	0.01	325	23	335.7	335.7	335.7
204.0	11646	-59.9	-74.9	12	0.01	318	20	335.8	335.9	335.9
200.0	11770	-58.7	-74.7	11	0.01	305	15	339.6	339.7	339.6
196.3	11887	-58.6	-76.0	9	0.01	305	15	341.6	341.6	341.6
192.0	12026	-58.5	-77.5	7	0.01	312	19	344.0	344.0	344.0
188.0	12157	-58.9	-78.9	6	0.00	318	22	345.4	345.4	345.4
187.0	12192	-58.4	-79.0	5	0.00	320	23	346.8	346.8	346.8
182.0	12362	-55.7	-79.7	3	0.00	320	19	353.8	353.8	353.8
178.2	12497	-55.3	-82.5	2	0.00	320	16	356.6	356.6	356.6
176.0	12575	-55.1	-84.1	2	0.00	317	17	358.2	358.2	358.2
169.8	12802	-55.6	-86.7	1	0.00	310	18	361.0	361.0	361.0
167.0	12908	-55.9	-87.9	1	0.00	324	17	362.3	362.3	362.3
161.9	13106	-55.8	-87.8	1	0.00	350	15	365.7	365.7	365.7
154.3	13411	-55.6	-87.6	1	0.00	345	14	371.1	371.1	371.1
150.0	13590	-55.5	-87.5	1	0.00	325	18	374.2	374.3	374.2
147.1	13716	-55.1	-87.4	1	0.00	340	20	377.1	377.1	377.1
141.0	13987	-54.1	-87.1	1	0.00	333	18	383.4	383.4	383.4
135.0	14266	-55.5	-87.5	1	0.00	326	16	385.7	385.7	385.7
133.7	14326	-55.5	-87.5	1	0.00	325	16	386.7	386.7	386.7
127.5	14630	-55.7	-87.7	1	0.00	340	27	391.6	391.6	391.6
121.5	14935	-56.0	-88.0	1	0.00	350	21	396.6	396.6	396.6
115.9	15240	-56.1	-88.2	1	0.00	330	20	401.7	401.7	401.7
112.0	15457	-56.3	-88.3	1	0.00	348	21	405.3	405.3	405.3
110.5	15545	-56.2	-88.2	1	0.00	355	22	407.1	407.1	407.1
105.3	15850	-55.9	-87.9	1	0.00	330	18	413.4	413.4	413.4
100.4	16154	-55.5	-87.5	1	0.00	340	18	419.7	419.7	419.7
100.0	16180	-55.5	-87.5	1	0.00	340	18	420.2	420.2	420.2
94.5	16541	-54.9	-86.9	1	0.00	355	21	428.2	428.3	428.2
91.2	16764	-55.2	-87.2	1	0.00	5	23	432.0	432.0	432.0
82.9	17374	-55.9	-87.9	1	0.00	335	19	442.5	442.5	442.5
79.0	17678	-56.3	-88.3	1	0.00	355	17	447.8	447.8	447.8
75.3	17983	-56.6	-88.6	1	0.00	350	19	453.2	453.2	453.2
74.8	18029	-56.7	-88.7	1	0.00	355	17	454.1	454.1	454.1
72.3	18245	-55.7	-87.7	1	0.00	20	9	460.6	460.6	460.6
71.8	18288	-55.9	-87.9	1	0.00	25	7	461.1	461.1	461.1
70.0	18450	-56.7	-88.7	1	0.00	25	7	462.7	462.8	462.7
65.2	18898	-58.0	-89.2	1	0.00	325	10	469.4	469.4	469.4
64.1	19005	-58.3	-89.3	1	0.00	337	11	471.0	471.0	471.0
62.1	19202	-58.2	-89.3	1	0.00	0	14	475.5	475.5	475.5
59.2	19507	-58.0	-89.3	1	0.00	345	12	482.6	482.6	482.6
53.7	20117	-57.6	-89.3	1	0.00	30	10	497.0	497.0	497.0
50.0	20570	-57.3	-89.3	1	0.00	20	13	508.0	508.0	508.0
48.8	20726	-57.3	-89.3	1	0.00	30	19	511.7	511.7	511.7
44.3	21336	-57.1	-89.1	1	0.00	25	16	526.4	526.5	526.4
42.2	21641	-57.0	-89.0	1	0.00	355	16	533.9	534.0	533.9
39.9	21997	-56.9	-88.9	1	0.00	16	17	542.9	542.9	542.9
38.4	22250	-55.2	-87.8	1	0.00	30	18	553.3	553.4	553.3
37.2	22444	-53.9	-86.9	1	0.01	14	16	561.5	561.6	561.5
36.6	22555	-54.0	-87.0	1	0.01	5	15	564.0	564.0	564.0

33.2	23165	-54.7	-87.2	1	0.01	350	13	577.7	577.7	577.7
30.2	23774	-55.5	-87.5	1	0.01	40	17	591.7	591.7	591.7
30.0	23820	-55.5	-87.5	1	0.01	20	11	592.7	592.8	592.8
28.8	24079	-56.3	-88.3	1	0.01	45	13	597.4	597.5	597.4
27.2	24442	-57.5	-89.5	1	0.00	48	13	604.0	604.0	604.0
26.2	24689	-57.1	-89.2	1	0.01	50	13	611.8	611.8	611.8
23.8	25298	-56.2	-88.6	1	0.01	25	18	631.4	631.5	631.4
21.6	25908	-55.2	-88.0	1	0.01	55	6	651.8	651.8	651.8
20.6	26213	-54.8	-87.7	1	0.01	10	12	662.1	662.2	662.1
20.0	26400	-54.5	-87.5	1	0.01	20	19	668.6	668.7	668.6
19.6	26518	-54.3	-87.3	1	0.01	30	24	672.6	672.7	672.6
18.7	26822	-53.9	-86.9	1	0.01	60	20	683.1	683.2	683.1
17.9	27127	-53.5	-86.5	1	0.01	60	13	693.7	693.8	693.7
17.0	27432	-53.1	-86.1	1	0.01	30	12	704.5	704.6	704.5
15.5	28042	-52.2	-85.2	1	0.02	40	26	726.6	726.8	726.6
14.8	28346	-51.8	-84.8	1	0.02	345	2	737.9	738.1	737.9
14.6	28427	-51.7	-84.7	1	0.02	354	4	740.9	741.1	740.9
13.5	28933	-53.3	-86.3	1	0.02	52	19	752.2	752.4	752.2
13.4	28956	-53.2	-86.2	1	0.02	55	20	753.4	753.6	753.4
12.8	29261	-51.5	-85.1	1	0.02	65	23	769.3	769.6	769.3
12.2	29566	-49.8	-83.9	1	0.03	55	13	785.6	785.9	785.6
11.7	29870	-48.1	-82.8	1	0.04	70	5	802.1	802.5	802.1
11.3	30094	-46.9	-81.9	1	0.04	81	18	814.4	815.0	814.5
11.2	30175	-47.1	-82.0	1	0.04	85	23	816.6	817.1	816.6
10.7	30480	-47.9	-82.4	1	0.04	105	17	824.6	825.2	824.7
10.0	30900	-48.9	-82.9	1	0.04	135	9	835.9	836.4	835.9
9.8	31033	-49.7	-83.7	1	0.04	170	3	837.8	838.2	837.8
9.7	31090	-49.5	-83.6	1	0.04	185	1	840.5	841.0	840.5
9.3	31394	-48.6	-83.0	1	0.04	345	13	854.9	855.5	854.9
7.7	32614	-45.0	-80.5	1	0.08	25	16	915.4	916.5	915.4
7.4	32918	-44.1	-79.8	1	0.09	35	14	931.0	932.4	931.1
7.0	33270	-43.1	-79.1	1	0.11	335	8	949.5	951.1	949.6
7.0	33223	-43.2	-79.2	1	0.11	335	10	947.0	948.6	947.1
6.7	33528	-42.3	-78.5	1	0.13	355	15	963.4	965.2	963.5
6.4	33833	-41.3	-77.9	1	0.15	35	25	980.0	982.1	980.1
6.2	34138	-40.3	-77.2	1	0.17	70	25	996.9	999.3	997.0
6.1	34203	-40.1	-77.1	1	0.17	77	22	1000.5	1003.0	1000.6
5.9	34442	-40.6	-77.3	1	0.17	105	12	1008.6	1011.2	1008.7
5.6	34747	-41.1	-77.5	1	0.18	25	10	1019.0	1021.7	1019.1
5.4	35032	-41.7	-77.7	1	0.18			1028.8	1031.5	1028.9

Station information and sounding indices

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Station identifier: YQD
  Station number: 71867
    Observation time: 100419/1200
      Station latitude: 53.96
        Station longitude: -101.10
          Station elevation: 274.0
            Showalter index: 7.09
              Lifted index: 13.90
                LIFT computed using virtual temperature: 13.89
                  SWEAT index: 29.99
                    K index: -9.30
                      Cross totals index: 12.50
                        Vertical totals index: 28.50
                          Totals totals index: 41.00
                            Convective Available Potential Energy: 0.00
                              CAPE using virtual temperature: 0.00
                                Convective Inhibition: 0.00

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CINS using virtual temperature: 0.00
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 268.57
Pres [hPa] of the Lifted Condensation Level: 842.91
Mean mixed layer potential temperature: 282.05
Mean mixed layer mixing ratio: 3.28
1000 hPa to 500 hPa thickness: 5466.00
Precipitable water [mm] for entire sounding: 8.75

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

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