

83554 Corumba Observations at 00Z 28 Dec 2014

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	68									
992.0	142	30.2	20.2	55	15.27	70	4	304.1	349.7	306.8
986.0	196	30.6	19.6	52	14.79	35	14	305.0	349.4	307.7
980.0	251	31.0	19.0	49	14.32	25	17	305.9	349.1	308.5
925.0	764	27.4	16.4	51	12.84	15	20	307.3	346.4	309.7
917.0	840	26.8	15.8	51	12.48	10	21	307.5	345.4	309.8
856.0	1445	22.2	11.2	50	9.85	10	27	308.8	339.1	310.6
850.0	1506	21.8	9.8	46	9.02	10	26	309.0	336.8	310.6
825.0	1763	20.2	6.0	39	7.14	5	22	309.9	332.2	311.2
795.0	2083	18.2	1.2	32	5.28	14	23	311.1	327.9	312.1
772.0	2333	18.2	-11.8	12	2.02	21	23	313.7	320.5	314.1
767.0	2389	18.0	-6.0	19	3.20	23	23	314.1	324.6	314.7
744.0	2648	16.2	-3.3	26	4.06	30	24	314.8	328.1	315.6
727.0	2844	14.8	-1.2	33	4.84	22	19	315.4	331.1	316.3
700.0	3163	13.6	-14.4	13	1.80	10	12	317.5	323.7	317.9
698.0	3187	13.4	-15.6	12	1.63	10	12	317.6	323.2	317.9
693.0	3247	13.0	-14.6	13	1.79	10	11	317.7	323.9	318.1
665.0	3591	10.4	-8.7	25	3.00	60	10	318.6	328.7	319.2
639.0	3923	8.0	-3.0	46	4.82	93	10	319.5	335.4	320.5
630.0	4040	7.6	-7.5	33	3.48	105	10	320.4	332.1	321.1
605.0	4373	6.6	-20.2	13	1.28	20	2	323.0	327.6	323.2
586.0	4636	5.8	-30.2	5	0.53	23	4	325.0	327.0	325.1
535.0	5370	-0.3	-28.4	10	0.69	30	10	326.3	328.9	326.4
522.0	5569	-1.9	-27.9	12	0.74	37	9	326.6	329.4	326.8
500.0	5910	-4.1	-27.1	15	0.83	50	8	328.0	331.1	328.1
474.0	6329	-6.7	-18.7	38	1.85	34	5	329.8	336.5	330.2
422.0	7224	-13.1	-29.8	23	0.77	0	0	332.7	335.7	332.9
419.0	7279	-13.5	-30.5	22	0.73	3	1	332.9	335.7	333.1
400.0	7630	-15.3	-39.3	11	0.32	20	7	335.0	336.3	335.1
374.0	8134	-17.9	-51.9	3	0.08	90	9	338.1	338.4	338.1
367.0	8272	-19.0	-51.8	4	0.09	110	10	338.5	338.9	338.5
350.0	8617	-21.6	-51.4	5	0.10	140	12	339.5	339.9	339.5
341.0	8807	-23.1	-51.2	6	0.10	130	11	340.0	340.5	340.1
328.0	9090	-25.3	-51.0	7	0.11	155	12	340.8	341.3	340.9
309.0	9525	-28.6	-50.5	10	0.12	165	29	342.0	342.5	342.0
300.0	9740	-30.3	-50.3	12	0.13	170	25	342.6	343.1	342.6
296.0	9834	-31.0	-50.8	13	0.12	175	24	342.8	343.4	342.9
271.0	10455	-35.9	-53.9	14	0.09	167	30	344.5	344.9	344.5
252.0	10956	-39.9	-52.9	24	0.11	161	35	345.8	346.3	345.8
250.0	11010	-40.3	-51.3	30	0.14	160	36	346.0	346.6	346.0
244.0	11176	-40.9	-45.9	58	0.26	159	37	347.5	348.6	347.6
230.0	11577	-44.5	-47.2	74	0.24	155	39	348.0	349.0	348.0
228.0	11634	-45.0	-47.7	74	0.23	155	39	348.1	349.0	348.1
200.0	12500	-52.7	-55.4	72	0.10	150	23	349.1	349.6	349.2
195.0	12663	-54.3	-56.4	77	0.09	152	22	349.1	349.6	349.2
189.0	12861	-55.5	-59.5	62	0.07	155	21	350.2	350.6	350.3
173.0	13422	-59.1	-68.1	30	0.02	95	11	353.4	353.5	353.4
150.0	14300	-67.1	-72.1	49	0.02	70	10	354.3	354.4	354.3
149.0	14340	-67.5	-72.5	49	0.01	68	9	354.3	354.4	354.3
144.0	14544	-68.6	-74.7	41	0.01	55	1	355.9	356.0	355.9
132.0	15064	-71.3	-80.3	25	0.00	177	4	360.0	360.0	360.0
128.0	15241	-72.5	-81.5	25	0.00	220	5	360.9	361.0	360.9
125.0	15377	-73.5	-82.5	24	0.00	210	10	361.7	361.7	361.7
119.0	15660	-75.5	-84.5	23	0.00	225	25	363.1	363.1	363.1
116.0	15807	-76.5	-85.5	23	0.00	215	28	363.9	363.9	363.9
104.0	16434	-80.9	-89.9	21	0.00	190	14	367.0	367.0	367.0
100.0	16660	-82.5	-91.5	21	0.00	215	10	368.1	368.1	368.1
98.0	16773	-82.4	-91.3	21	0.00	235	14	370.4	370.4	370.4
95.0	16947	-82.2	-91.1	21	0.00	195	22	374.0	374.0	374.0
92.0	17127	-82.1	-90.8	22	0.00	195	26	377.8	377.8	377.8
89.0	17313	-81.9	-90.6	22	0.00	195	21	381.7	381.7	381.7
87.0	17440	-81.8	-90.4	23	0.00	165	15	384.4	384.4	384.4
84.0	17637	-81.7	-90.1	23	0.00	165	18	388.6	388.6	388.6
80.0	17910	-81.4	-89.7	24	0.00	135	27	394.6	394.6	394.6
76.0	18198	-81.2	-89.3	25	0.00	140	24	400.9	400.9	400.9
73.0	18423	-81.0	-89.0	25	0.00	125	28	406.0	406.0	406.0
72.1	18493	-80.9	-88.9	25	0.00	125	26	407.5	407.6	407.5
70.0	18660	-78.7	-87.7	22	0.00	125	21	415.7	415.7	415.7
68.4	18793	-76.9	-85.9	23	0.00	112	27	422.3	422.4	422.3
67.0	18912	-77.2	-86.5	22	0.00	100	32	424.2	424.2	424.2
63.5	19220	-77.9	-87.9	19	0.00	96	29	429.2	429.2	429.2
63.0	19266	-77.8	-87.9	19	0.00	95	29	430.4	430.4	430.4

61.0	19451	-77.5	-88.0	17	0.00	65	29	435.1	435.1	435.1
59.0	19643	-77.1	-88.1	16	0.00	60	21	440.1	440.1	440.1
58.0	19743	-76.1	-87.8	14	0.00	70	17	444.6	444.6	444.6
56.0	19951	-74.0	-87.2	12	0.00	85	20	453.9	453.9	453.9
51.0	20503	-68.3	-85.5	7	0.01	90	24	479.4	479.4	479.4
50.0	20620	-67.1	-85.1	6	0.01	110	24	484.9	485.0	484.9
49.3	20705	-65.7	-84.7	6	0.01	113	25	490.2	490.3	490.2
49.0	20743	-65.5	-84.8	5	0.01	115	25	491.6	491.7	491.7
44.0	21408	-61.1	-87.5	2	0.00	90	29	517.6	517.7	517.6
42.3	21651	-59.5	-88.5	1	0.00	107	37	527.4	527.5	527.5
42.0	21696	-59.6	-88.6	1	0.00	110	39	528.4	528.4	528.4
34.1	22995	-61.5	-90.5	1	0.00	84	33	555.7	555.7	555.7
33.0	23201	-60.2	-89.7	1	0.00	80	32	564.5	564.5	564.5
32.0	23394	-58.9	-88.9	1	0.00	95	28	572.8	572.8	572.8
30.0	23800	-56.3	-87.3	1	0.01	100	35	590.6	590.6	590.6
28.2	24193	-55.7	-86.7	1	0.01	109	37	602.8	602.8	602.8
28.0	24239	-55.7	-86.7	1	0.01	110	37	604.0	604.0	604.0
26.0	24710	-55.9	-86.9	1	0.01	95	39	616.4	616.5	616.4
25.0	24959	-56.0	-87.0	1	0.01	120	46	623.1	623.2	623.1
24.0	25219	-56.0	-87.0	1	0.01	105	48	630.2	630.2	630.2
23.5	25353	-56.1	-87.1	1	0.01			633.8	633.9	633.8

Station information and sounding indices

```

Station number: 83554
Observation time: 141228/0000
Station latitude: -19.00
Station longitude: -57.67
Station elevation: 142.0
Showalter index: 4.14
Lifted index: -0.42
LIFT computed using virtual temperature: -1.24
SWEAT index: 177.58
K index: 7.70
Cross totals index: 13.90
Vertical totals index: 25.90
Totals totals index: 39.80
Convective Available Potential Energy: 168.04
CAPE using virtual temperature: 249.57
Convective Inhibition: -427.95
CINS using virtual temperature: -246.85
Equilibrium Level: 248.83
Equilibrium Level using virtual temperature: 248.57
Level of Free Convection: 522.92
LFCT using virtual temperature: 546.27
Bulk Richardson Number: 327.78
Bulk Richardson Number using CAPV: 486.81
Temp [K] of the Lifted Condensation Level: 288.86
Pres [hPa] of the Lifted Condensation Level: 816.37
Mean mixed layer potential temperature: 306.12
Mean mixed layer mixing ratio: 13.98
1000 hPa to 500 hPa thickness: 5842.00
Precipitable water [mm] for entire sounding: 30.55

```

83554 Corumba Observations at 12Z 28 Dec 2014

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	91									
994.0	142	30.8	21.8	59	16.85	10	2	304.5	355.0	307.5
977.0	297	28.2	20.2	62	15.50	1	7	303.4	349.6	306.2
971.0	352	29.0	20.0	58	15.41	358	8	304.7	350.9	307.5
936.0	680	26.6	19.1	63	15.10	340	18	305.4	350.9	308.2
925.0	785	25.8	18.8	65	15.00	345	18	305.7	350.9	308.4
850.0	1524	20.2	15.6	75	13.29	340	19	307.3	347.6	309.7
841.0	1616	19.4	15.3	77	13.17	340	18	307.4	347.4	309.8
835.0	1678	19.0	14.9	77	12.90	340	17	307.6	346.8	310.0
817.0	1865	17.8	13.6	76	12.12	352	19	308.2	345.2	310.5
805.0	1992	17.5	9.2	58	9.18	0	20	309.2	337.5	310.9
794.0	2110	17.2	5.2	45	7.03	358	21	310.1	332.1	311.4
777.0	2295	15.2	10.5	74	10.36	356	22	309.9	341.8	311.8
744.0	2660	12.9	6.7	66	8.36	350	25	311.2	337.3	312.8
729.0	2831	11.8	5.0	63	7.53	0	26	311.8	335.5	313.2
703.0	3136	9.8	1.8	57	6.24	9	22	312.9	332.7	314.1

700.0	3172	9.8	2.8	62	6.73	10	22	313.3	334.6	314.6
657.0	3695	5.9	1.8	75	6.69	20	19	314.6	335.9	315.9
652.0	3758	5.4	1.7	77	6.68	15	17	314.8	336.1	316.0
637.0	3949	6.0	-15.0	21	1.88	0	11	317.5	324.0	317.9
623.0	4130	5.0	-19.0	16	1.37	14	10	318.4	323.2	318.7
601.0	4424	5.8	-27.2	7	0.69	37	9	322.6	325.2	322.8
500.0	5900	-4.3	-20.3	28	1.53	155	2	327.7	333.3	328.0
497.0	5947	-4.6	-21.3	26	1.41	225	1	328.0	333.1	328.3
473.0	6336	-6.7	-29.7	14	0.69	187	3	330.0	332.6	330.1
415.0	7340	-15.2	-29.4	29	0.82	85	10	331.6	334.7	331.8
408.0	7471	-16.3	-29.3	32	0.83	83	10	331.8	335.0	332.0
400.0	7620	-16.5	-38.5	13	0.35	80	10	333.5	334.8	333.5
382.0	7964	-18.5	-43.7	9	0.21	75	16	335.2	336.1	335.2
372.0	8161	-19.7	-46.7	7	0.15	88	15	336.2	336.9	336.2
363.0	8342	-21.1	-39.8	17	0.33	100	15	336.6	338.0	336.7
356.0	8486	-22.3	-34.3	33	0.59	103	17	336.9	339.3	337.1
347.0	8673	-23.7	-48.7	8	0.13	108	19	337.5	338.1	337.6
332.0	8994	-26.3	-52.3	7	0.09	115	23	338.3	338.7	338.3
323.0	9191	-27.3	-51.7	8	0.10	120	25	339.5	339.9	339.5
300.0	9720	-30.1	-50.1	12	0.13	140	23	342.8	343.4	342.9
299.0	9744	-30.2	-50.5	12	0.13	140	23	343.1	343.6	343.1
297.0	9791	-30.3	-51.3	11	0.11	140	23	343.5	344.1	343.6
266.0	10564	-36.9	-47.9	31	0.19	135	19	344.9	345.7	344.9
264.0	10616	-37.3	-48.7	30	0.17	135	19	345.0	345.8	345.1
250.0	10990	-40.3	-54.3	21	0.10	145	12	346.0	346.4	346.0
246.0	11099	-41.1	-55.7	19	0.08	155	11	346.4	346.8	346.5
233.0	11465	-43.7	-60.5	14	0.05	130	12	347.9	348.1	347.9
220.0	11853	-46.5	-65.5	10	0.03	175	10	349.3	349.4	349.3
217.0	11943	-47.3	-65.6	11	0.03	165	11	349.5	349.6	349.5
200.0	12480	-51.9	-65.9	17	0.03	185	19	350.4	350.6	350.4
162.0	13791	-63.6	-71.8	32	0.01	215	15	352.4	352.5	352.4
150.0	14270	-67.9	-73.9	42	0.01	215	16	352.9	353.0	352.9
142.0	14597	-70.8	-75.2	52	0.01	210	16	353.5	353.6	353.5
140.0	14681	-71.5	-75.5	55	0.01	209	18	353.6	353.7	353.6
124.0	15383	-75.3	-80.5	44	0.00	200	33	359.3	359.3	359.3
119.0	15620	-76.5	-82.2	41	0.00	175	37	361.2	361.2	361.2
110.0	16075	-79.0	-85.4	35	0.00	140	31	364.8	364.9	364.8
106.0	16289	-80.1	-86.9	32	0.00	135	21	366.6	366.6	366.6
104.0	16399	-80.7	-87.7	31	0.00	145	17	367.4	367.4	367.4
102.0	16508	-80.6	-87.6	31	0.00	155	19	369.7	369.7	369.7
100.0	16620	-80.5	-87.5	31	0.00	145	20	371.9	372.0	371.9
92.4	17069	-79.0	-87.4	24	0.00	105	28	383.4	383.5	383.4
87.6	17374	-77.9	-87.3	21	0.00	120	19	391.5	391.5	391.5
83.1	17678	-76.9	-87.2	18	0.00	110	16	399.6	399.6	399.6
78.7	17983	-75.8	-87.2	16	0.00	130	16	407.9	407.9	407.9
75.9	18193	-75.1	-87.1	14	0.00	120	17	413.7	413.7	413.7
74.7	18288	-75.2	-87.4	14	0.00	115	17	415.4	415.4	415.4
70.8	18593	-75.6	-88.5	12	0.00	125	16	420.9	420.9	420.9
70.0	18660	-75.7	-88.7	12	0.00	65	18	422.1	422.1	422.1
67.2	18898	-76.0	-89.7	10	0.00	65	18	426.4	426.4	426.4
63.7	19202	-76.5	-91.0	9	0.00	65	16	431.9	431.9	431.9
62.1	19351	-76.7	-91.7	8	0.00	102	15	434.6	434.6	434.6
60.5	19507	-75.9	-91.6	7	0.00	140	14	439.7	439.7	439.7
51.7	20422	-71.1	-91.2	4	0.00	70	19	470.9	470.9	470.9
50.0	20620	-70.1	-91.1	3	0.00	105	35	477.9	477.9	477.9
49.1	20726	-70.0	-91.4	3	0.00	100	26	480.5	480.5	480.5
47.4	20938	-69.9	-91.9	3	0.00	104	34	485.7	485.7	485.7
46.7	21031	-69.2	-91.7	3	0.00	105	38	489.4	489.4	489.4
42.3	21641	-64.8	-90.4	2	0.00	85	27	514.5	514.5	514.5
40.2	21946	-62.6	-89.7	2	0.00	100	28	527.4	527.4	527.4
38.3	22250	-60.4	-89.1	1	0.00	85	35	540.5	540.5	540.5
35.6	22698	-57.1	-88.1	1	0.00	90	37	560.3	560.4	560.3
33.1	23165	-55.8	-86.8	1	0.01	95	39	575.5	575.5	575.5
30.6	23663	-54.5	-85.5	1	0.01	91	42	592.1	592.2	592.1
30.1	23774	-54.7	-85.7	1	0.01	90	43	594.6	594.6	594.6
30.0	23790	-54.7	-85.7	1	0.01	80	42	594.9	595.0	594.9
28.7	24079	-54.4	-85.6	1	0.01	80	42	603.5	603.5	603.5
27.4	24384	-54.1	-85.4	1	0.01	105	40	612.6	612.7	612.6
26.1	24689	-53.8	-85.3	1	0.01	90	40	621.9	622.0	621.9
22.9	25524	-52.9	-84.9	1	0.01			647.9	648.1	647.9

Station information and sounding indices

Station number: 83554
 Observation time: 141228/1200
 Station latitude: -19.00
 Station longitude: -57.67
 Station elevation: 142.0
 Showalter index: -0.37

Lifted index: -1.67
LIFT computed using virtual temperature: -2.46
SWEAT index: 227.20
K index: 33.10
Cross totals index: 19.90
Vertical totals index: 24.50
Totals totals index: 44.40
Convective Available Potential Energy: 730.13
CAPE using virtual temperature: 923.28
Convective Inhibition: -92.33
CINS using virtual temperature: -66.32
Equilibrium Level: 199.71
Equilibrium Level using virtual temperature: 198.82
Level of Free Convection: 752.63
LFCT using virtual temperature: 777.72
Bulk Richardson Number: 236.63
Bulk Richardson Number using CAPV: 299.23
Temp [K] of the Lifted Condensation Level: 291.27
Pres [hPa] of the Lifted Condensation Level: 855.50
Mean mixed layer potential temperature: 304.57
Mean mixed layer mixing ratio: 15.58
1000 hPa to 500 hPa thickness: 5809.00
Precipitable water [mm] for entire sounding: 42.84

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