

McMurdo Station Daily Observation Worksheet

Date: 01

Time	Winds			Dew PT	3 hr Temp		Visibility (hrs)					Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt (in)	Station Press (mb)	Press Tend	SLP (mb)	24-Hour Pressure
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs	hrs	Spd		Dir	Time	Spd	Dir	Time	<500			<1000	<3000						
12-15Z	110	3	1.4	-9.1	2.8	0.5										8	340	1234	10	330	1236	1				29.46	993.6	1004	997.8				
15-18Z	0	0	1.4	-12.9	1.8	-0.6										7	100	1642	9	90	1606	1				29.48	994.4	1008	998.5				
18-21Z	110	6	1.2	-12.7	2.3	0.2										7	120	1905	9	100	1857	1				29.48	994.2	8002	998.5				
21-24Z		6	2.6	-12.3	2.8	1.2										10	60	2200	12	60	2159	1				29.49	994.4	3002	998.5	3.4			
12 hr Max/Min				2.8	-0.6																												
00-03Z	50	10	1.9	-7.3	2.5	0.7										14	60	223	17	60	227	1				29.52	995.6	3012	999.6				
03-06Z	70	9	1.9	-12.9	3.2	1.7										11	70	541	15	80	514	1				29.55	996.8	1012	1000.9				
06-09Z	30	7	2.2	-13.1	2.5	1.5										12	40	736	14	40	740	1				29.55	996.6	6002	1000.7				
09-12Z	360	9	1.1	-5.0	3.3	0.9										14	350	934	18	360	932	1				29.53	996.1	6005	1000.1	2.9			
12 hr Max/Min				3.3	0.7																												
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)									
							<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000	<3000	Time	<500	<1000	<3000		
53		6		3.3	-0.6	2.0	00-06L	0.0	0.0	0.0	-5.0	23.0	0.0	0.0	0.0	0.00	60	14	223	360	18	932	1		00-06L	0.0	0.0	0.0					
							06-12L	0.0	0.0	0.0			Altimeter			Total Obs	Daily Pres	Daily Temp	06-12L	0.0	0.0	0.0											
							12-18L	0.0	0.0	0.0			Max			Min	Avg	12-18L	0.0	0.0	0.0												
							18-24L	0.0	0.0	0.0			29.55			29.46	29.51	18-24L	0.0	0.0	0.0												
													8			0.09	3.9																

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	120	5	1.0	-11.4	2.8	0.8									11	350	1223	15	350	1208	1									
15-18Z	150	5	2.4	-9.9	3.7	0.7									6	140	1746	8	110	1511	1									
18-21Z	80	11	1.7	-12.8	2.2	1.2									11	80	2050	13	80	2050	1									
21-24Z	110	9	1.2	-11.9	2.1	0.6									16	150	2257	21	150	2308	1									
12 hr Max/Min					3.7	0.6																								
00-03Z	70	9	1.9	-12.9	2.2	0.1									19	60	49	22	60	48	1									
03-06Z	0	0	2.7	-11.1	4.0	1.3									13	40	258	16	40	257	1									
06-09Z	4	2.4	-12.6	3.8	2.0										7	50	820	9	40	832	1									
09-12Z	110	3	2.4	-11.9	2.8	1.4									8	110	859	10	120	858	1									
12 hr Max/Min					4.0	0.1																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time	Time	Time			
99	6	4.0	0.1	2.7	00-06L	0.0	0.0	0.0	-7.0	19.4	0.0	0.0	0.0	0.00	60	19	49	60	22	48	1			00-06L	0.0					
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															Max	Min	Avg	8	0.08	3.9										
															29.49	29.41	29.46													

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Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 02

s)	Station				24-Hour Pressure
	Alt	Press	Press	SLP	
<3000	(in)	(mb)	Tend	(mb)	
	29.49	994.6	7015	998.7	
	29.48	994.2	6004	998.3	
	29.47	993.9	8003	998.0	
	29.48	994.1	1002	998.3	0.3
	29.44	992.9	6012	997.1	
	29.45	993.2	3003	997.3	
	29.44	992.9	6003	996.9	
	29.41	992.0	6009	996.1	4.1

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)	
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500
12-15Z	110	5	3.1	-12.4	3.6	2.5									6	40	1215	8	40	1213	1				
15-18Z	0	0	2.7	-12.4	4.1	2.5									7	170	1540	8	170	1550	1				
18-21Z	150	4	3.3	-11.8	4.5	2.5									7	170	1850	9	170	1849	0				
21-24Z	0	0	5.8	-10.6	5.8	3.2									6	160	2220	7	110	2250	0				
12 hr Max/Min				5.8	2.5																				
00-03Z	0	0	5.0	-8.3	6.1	3.8									5	260	234	7	350	218	1				
03-06Z	0	0	5.4	-7.4	6.2	3.4									5	180	515	6	290	523	1				
06-09Z	310	6	2.4	-4.3	5.5	2.2									8	290	739	10	290	738	1				
09-12Z	0	0	2.7	-2.7	3.6	1.8									9	310	1002	11	310	1001	2				
12 hr Max/Min				6.2	1.8																				
Avg Wind		Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Dir	Spd				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000
122	2	6.2	1.8	4.7	00-06L	0.0	0.0	0.0	-2.0	28.4	0.0	0.0	0.0	0.00	310	9	1002	310	11	1001	1		00-06L	0.0	
														Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
														Max	Min	Avg				8	0.10	4.4	06-12L	0.0	
														29.39	29.29	29.34				12-18L	0.0				
																				18-24L	0.0				

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Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

03

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.39	991.2	6008	995.2	
	29.38	990.9	6003	994.9	
	29.38	990.7	6002	994.8	
	29.37	990.7	4000	994.7	3.4
	29.34	989.3	7014	993.5	
	29.31	988.5	7008	992.6	
	29.29	987.8	6007	991.9	
	29.29	987.6	6002	991.6	4.4

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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04

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.26	987.0	6006	991.1	
	29.26	987.0	4000	991.1	
	29.24	986.3	8007	990.4	
	29.25	986.5	1002	990.5	4.2
	29.25	986.5	4000	990.5	
	29.26	986.8	3003	990.8	
	29.28	987.5	3007	991.5	
	29.31	988.7	2012	992.6	1.1

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpr Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)		
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z	0	0	5.0	-4.8	5.7	3.5										3	200	1406	4	200	1357	2				
15-18Z	120	8	1.3	-7.2	4.9	0.8										11	110	1719	14	120	1718	1				
18-21Z	120	9	1.9	-9.9	2.3	0.8										14	90	1906	17	100	1906	1				
21-24Z	150	17	1.8	-6.5	2.5	1.6										17	150	2347	22	140	2116	1				
12 hr Max/Min					5.7	0.8																				
00-03Z	110	6	4.4	-10.6	4.5	1.6										17	150	2357	22	150	2357	1				
03-06Z	0	0	4.9	-4.3	6.0	3.5										11	40	319	12	40	341	1				
06-09Z	340	10	3.2	-4.3	5.1	3.0										10	350	848	13	350	850	1				
09-12Z	350	11	3.3	-7.6	3.6	2.3										13	350	1041	18	350	1036	1				
12 hr Max/Min					6.0	1.6																				
Avg Wind							Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500
102	8					4.3	00-06L	0.0	0.0	0.0	-5.0	23.0	0.0	0.0	0.0	0.00	150	17	2347	140	22	2116	1		00-06L	0.0
							06-12L	0.0	0.0	0.0							Altimeter								06-12L	0.0
							12-18L	0.0	0.0	0.0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0.0
							18-24L	0.0	0.0	0.0							29.56	29.33	29.48	8	0.23	5.2			18-24L	0.0

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05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.33	989.3	1006	993.4	
	29.38	991.0	3017	995.1	
	29.44	992.9	2019	997.0	
	29.48	994.2	1013	998.4	7.7
	29.53	995.9	2017	1000.0	
	29.54	996.4	3005	1000.5	
	29.56	997.0	0006	1001.0	
	29.56	997.0	0000	1001.0	8.3

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)							
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000					
12-15Z	330	9	2.7	-4.3	3.3	2.5									13	350	1215	15	340	1411	1										
15-18Z	340	8	2.8	-2.6	3.3	2.5								11	350	1659	15	350	1729	6	180										
18-21Z	330	9	3.7	-1.4	3.9	2.7								14	350	1824	19	340	1824	7	140										
21-24Z	350	8	3.8	-1.6	4.2	3.5								9	350	2213	12	310	2319	6	100										
12 hr Max/Min				4.2	2.5																										
00-03Z		5	4.0	-1.4	4.8	3.8								10	320	120	15	320	110	6	100										
03-06Z	110	5	2.8	-4.5	5.2	2.6								6	130	531	8	130	532	6	100										
06-09Z	120	12	0.1	-7.3	3.1	-0.1								16	150	715	22	160	715	5	100										
09-12Z	130	10	-0.7	-6.0	0.6	-0.7								17	150	1108	23	150	1002	7	80										
12 hr Max/Min				5.2	-0.7																										
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000						
30	8	5.2	-0.7	3.2	00-06L	0.0	0.0	0.0	-8.0	17.6	0.0	0.0	0.0	0.00	150	17	1108	150	23	1002	6	80	00-06L	0.0	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	29.54	29.37	29.43	8	0.17	5.9									

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06

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.54	996.4	8006	1000.5	
	29.50	995.1	8013	999.1	
	29.46	993.7	7014	997.8	
	29.42	992.2	7015	996.2	2.0
	29.38	990.7	7015	994.8	
	29.37	990.5	6002	994.6	
	29.37	990.5	0000	994.6	
	29.37	990.5	5000	994.6	6.5

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)								
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z	150	17	-1.2	-4.8	-0.2	-1.3				SN	0.5				T	19	170	1241	24	140	1449	7	60									
15-18Z	90	10	-0.4	-4.1	-0.3	-1.2				SN	0.6					19	140	1459	27	140	1513	7	60									
18-21Z	170	18	-0.9	-6.2	0.3	-1.5				SN	0.4					23	170	1945	28	170	2006	8	60									
21-24Z	170	18	-0.7	-6.4	0.1	-1.0									T	21	160	2347	29	170	2100	7	60									
12 hr Max/Min					0.3	-1.5																										
00-03Z	90	8	0.6	-7.6	1.0	-0.7										17	160	2357	19	160	2357	7	60									
03-06Z		6	1.8	-9.1	2.2	0.6										10	70	313	14	70	308	6	60									
06-09Z	280	3	2.3	-9.0	3.2	2.0										8	90	808	11	100	808	6	200									
09-12Z	40	6	1.8	-13.2	3.5	1.7										8	60	1016	10	60	1057	6	200									
12 hr Max/Min					3.5	-0.7																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
143	11			3.5	-1.5	1.8	00-06L	0.0	0.0	0.0	-9.0	15.8		1.5	0.0	0.0	T	170	23	1945	170	29	2100	7	60	00-06L	0.0					
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	8	0.05	5.0										
																	29.40	29.35	29.38													

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

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Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

07

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.35	990.0	7005	994.2	
	29.36	990.3	1003	994.4	
	29.37	990.5	3002	994.7	
	29.39	991.2	1007	995.4	1.0
	29.40	991.5	1003	995.7	
	29.39	991.2	6003	995.4	
	29.39	991.2	5000	995.3	
	29.37	990.7	8005	994.8	0.2

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z		3	0.2	-9.9	2.8	-0.6									9	40	1248	13	60	1236	5	220								
15-18Z	140	7	1.9	-11.4	3.3	-0.8								8	140	1744	11	160	1743	1										
18-21Z	110	10	0.0	-6.2	1.9	-0.3								17	140	1938	22	140	1937	1										
21-24Z	110	19	-3.7	-8.1	-0.4	-4.5								21	60	2338	27	60	2336	3										
12 hr Max/Min					3.3	-4.5																								
00-03Z	60	12	-0.8	-9.1	-0.4	-4.7								21	60	2	27	60	0	1										
03-06Z	100	7	2.1	-10.9	2.3	-0.2								13	60	305	16	60	307	1										
06-09Z	60	9	0.5	-9.8	3.1	0.5								10	70	842	16	120	658	1										
09-12Z	310	6	0.3	-2.8	1.4	-0.7								13	40	910	14	60	923	1										
12 hr Max/Min					3.1	-4.7																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Temp	Time	<500	<1000				
92	9	3.3	-4.7	0.6	00-06L	0.0	0.0	0.0	-14.0	6.8	0.0	0.0	0.0	0.00	60	21	2338	60	27	2336			2	220	00-06L	0.0				
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															Max	Min	Avg	8	0.05	8.0										
															29.42	29.37	29.40													

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

08

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.37	990.5	7002	994.7	
	29.39	991.2	3007	995.2	
	29.42	992.4	2012	996.6	
	29.42	992.2	6002	996.3	1.0
	29.40	991.7	6005	995.8	
	29.40	991.4	6003	995.5	
	29.40	991.5	0001	995.7	
	29.38	990.9	8006	995.0	0.2

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	310	5	0.0	-2.9	1.4	-0.7									7	310	1217	9	320	1216	1									
15-18Z	310	5	0.1	-3.4	0.2	-0.3									7	320	1657	8	320	1700	1									
18-21Z	0	0	2.9	-2.8	3.1	0.0									6	310	1809	7	320	1818	3									
21-24Z	110	8	-0.8	-6.1	2.8	-1.0									11	110	2341	13	120	2349	3									
12 hr Max/Min					3.1	-1.0																								
00-03Z	120	10	-2.6	-6.4	-0.9	-3.7									14	120	235	17	120	241	4									
03-06Z	110	15	-5.2	-8.1	-2.8	-5.5									17	110	548	23	100	531	3									
06-09Z	80	14	-5.7	-9.2	-4.9	-6.2									18	80	727	22	90	839	4									
09-12Z	90	13	-6.4	-8.9	-4.9	-6.7									19	80	1016	23	90	1015	3									
12 hr Max/Min					-0.9	-6.7																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time	Time	Time			
95	9	3.1	-6.7	-0.2	00-06L	0.0	0.0	0.0	-16.0	3.2	0.0	0.0	0.0	0.00	80	19	1016	100	23	531	3			00-06L	0.0					
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															29.37	29.32	29.34	8	0.05	9.8										

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 09

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.36	990.2	8007	994.3	
	29.33	989.3	6009	993.5	
	29.33	989.3	4000	993.4	
	29.32	989.0	6003	993.2	3.2
	29.32	988.8	6002	993.0	
	29.33	989.0	3002	993.1	
	29.35	989.8	3008	994.1	
	29.37	990.5	2007	994.6	0.4

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpr Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z	90	16	-7.4	-9.7	-6.3	-7.5																						
15-18Z	110	12	-7.8	-9.5	-7.1	-8.1																					0.5	
18-21Z	100	16	-8.1	-11.0	-7.5	-8.5																					1.7	
21-24Z	80	12	-7.0	-10.5	-7.0	-8.3																					3.0	
12 hr Max/Min					-6.3	-8.5																						
00-03Z	80	20	-7.3	-10.4	-6.8	-7.9																						
03-06Z	30	10	-6.0	-10.2	-3.7	-7.1																						
06-09Z	0	0	-3.9	-8.6	-3.0	-6.7																						
09-12Z	280	3	-3.8	-7.1	-3.2	-4.6																						
12 hr Max/Min					-3.0	-7.9																						
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	<500	<1000			
84	11		-3.0	-8.5	00-06L	0.0	0.0	0.0	-19.0	-2.2	3.8	0.0	0.0	T	60	24	119	60	28	118			5	4	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff			06-12L	1.7			
																Max	Min	Avg	8	0.09	5.5			12-18L	0.0			
																29.49	29.40	29.46						18-24L	0.0			

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.40	991.4	1009	995.7	
0.5	29.42	992.4	2010	996.6	
3.0	29.45	993.2	1008	997.7	
3.0	29.47	993.9	1007	998.2	4.9
0.8	29.47	993.9	4000	998.2	
	29.49	994.6	1007	998.8	
	29.49	994.6	4000	998.8	
	29.49	994.6	4000	998.9	4.1

y (hrs)	
<1000	<3000
0.5	0.5
3.0	6.0
0.0	0.8
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds		Temp	Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)		
	Dir	Spd			Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z	0	0	-4.2	-7.1	-3.1	-4.7									5	290	1308	6	280	1311	7	90				
15-18Z	0	0	-2.1	-6.1	-2.0	-4.7									4	190	1604	5	190	1604	7	90				
18-21Z	0	0	-2.2	-7.4	-1.3	-2.3									3	200	1947	4	210	2048	7	100				
21-24Z	90	15	-4.6	-8.7	-0.4	-4.6									16	90	2348	19	90	2348	8	100				
12 hr Max/Min					-0.4	-4.7																				
00-03Z	100	13	-4.8	-8.4	-4.0	-4.9									17	60	228	22	60	234	8	50				
03-06Z	90	8	-2.4	-8.9	-2.3	-5.0									17	70	318	22	60	308	7	80				
06-09Z	6	-1.7	-8.3	-1.2	-2.3										10	60	728	14	100	615	7	70				
09-12Z	0	0	-0.6	-7.2	-0.5	-1.7									7	90	916	8	60	1007	7	70				
12 hr Max/Min					-0.5	-5.0																				
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000	
94	5		-0.4	-5.0	-1.9	00-06L	0.0	0.0	0.0	-13.0	8.6	0.0	0.0	0.0	60	17	228	60	22	234			7	50	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																29.51	29.47	29.49	8	0.04	4.6					

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

11

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.49	994.6	4000	998.9	
	29.49	994.8	3002	998.9	
	29.50	994.9	3001	999.1	
	29.50	995.1	3002	999.3	1.2
	29.51	995.1	0000	999.4	
	29.50	994.9	6002	999.0	
	29.49	994.6	6003	998.8	
	29.47	994.1	8005	998.3	0.5

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	170	4	-1.7	-7.6	1.0	-2.7									5	170	1420	7	180	1418	6	70								
15-18Z	110	8	-3.0	-8.1	-1.7	-3.2									8	110	1750	10	120	1750	6	50								
18-21Z	100	16	-5.1	-9.1	-3.3	-5.2									16	100	2050	20	110	2046	7	80								
21-24Z	70	11	-2.9	-9.3	-2.9	-5.5									17	60	2129	20	60	2125	7	80								
12 hr Max/Min					1.0	-5.5																								
00-03Z	70	13	-3.9	-10.9	-1.8	-4.0									13	70	250	18	70	234	7	80								
03-06Z	350	7	-1.4	-6.9	-0.8	-4.0									14	60	307	17	60	306	7	80								
06-09Z	6	-1.1	-5.6	-1.0	-2.0										9	350	600	13	350	557	7	80								
09-12Z	0	0	-0.6	-7.3	-0.6	-1.4									9	350	931	11	330	1003	7	60								
12 hr Max/Min					-0.6	-4.0																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time	Time	Time			
83	8	1.0	-5.5	-1.2	00-06L	0.0	0.0	0.0	-13.0	8.6	0.0	0.0	0.0	0.00	60	17	2129	110	20	2046	7	50	00-06L	0.0						
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															29.45	29.34	29.39	8	0.11	6.5										

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

12

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.45	993.4	6007	997.5	
	29.44	992.9	6005	997.1	
	29.44	992.7	8002	997.0	
	29.40	991.5	8012	995.7	3.6
	29.36	990.3	7012	994.6	
	29.36	990.2	6001	994.3	
	29.35	990.0	6002	994.1	
	29.34	989.5	6005	993.7	4.6

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)					
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000			
12-15Z	350	7	-2.1	-4.8	-0.7	-2.3	0.2	0.8	1.1	SN		2.7						0.05	9	350	1449	11	350	1449	8	25			
15-18Z	0	0	-1.7	-4.7	-1.4	-2.7	0.4	1.0	1.9	SN		3.0							6	350	1507	8	340	1505	7	25			
18-21Z		4	-0.1	-5.8	0.2	-1.5				SN		2.1							7	330	2046	10	350	2034	7	50			
21-24Z	0	0	0.7	-2.1	0.8	-0.7	0.2	0.5	0.9	SN		2.3						T	6	310	2301	9	330	2258	6	8		0.8	
12 hr Max/Min					0.8	-2.7																							
00-03Z		6	0.8	-7.3	3.6	0.3				SN		0.3							9	40	247	11	40	247	7	33			
03-06Z	40	6	0.8	-8.4	1.2	0.4												T	9	40	440	12	50	323	7	100			
06-09Z	0	0	3.4	-7.5	3.6	0.8													8	40	557	10	40	557	6	100			
09-12Z	0	0	0.7	-6.3	3.4	0.2													5	320	1137	6	320	1116	7	100			
12 hr Max/Min					3.6	0.2																							
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Total	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000			
13	3	3.6	-2.7	1.5	00-06L	0.5	1.8	3.0	-7.0	19.4	10.3	0.0	0.0	0.05	350	9	1449	50	12	323	7	8	00-06L	0.0					
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
																29.46	29.34	29.39	8	0.12	6.3								

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

13

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
2.2	29.34	989.7	1002	993.8	
3.0	29.34	989.7	4000	993.8	
1.3	29.36	990.2	3005	994.3	
1.2	29.38	990.9	0007	995.0	0.6
0.3	29.38	991.0	1001	995.2	
	29.40	991.7	2007	995.9	
	29.43	992.7	2010	996.8	
	29.46	993.7	2010	997.8	4.2

j (hrs)	
<1000	<3000
0.0	5.2
0.8	2.4
0.0	0.3
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)	
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500
12-15Z	190	3	0.4	-6.7	3.4	-0.4									6	310	1213	7	310	1205	5	120			
15-18Z	350	3	0.9	-4.6	2.4	-0.2								4	340	1749	5	330	1745	4					
18-21Z		3	1.6	-4.1	1.7	0.4								5	340	1906	6	330	1906	5	130				
21-24Z		3	1.8	-4.4	3.4	1.0								5	280	2343	6	290	2344	2					
12 hr Max/Min				3.4	-0.4																				
00-03Z		4	2.3	-5.4	2.7	1.9								6	310	46	8	290	138	1					
03-06Z	290	4	1.8	-4.3	2.7	1.4								6	290	547	8	290	540	1					
06-09Z	310	5	1.8	-4.9	2.7	1.3								7	310	745	8	310	747	2					
09-12Z	0	0	2.1	-4.6	2.1	0.3								7	310	959	9	310	943	2					
12 hr Max/Min				2.7	0.3																				
Avg Wind							Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time		Time	<500
298	3				2.1	00-06L	0.0	0.0	0.0	-4.0	24.8	0.0	0.0	0.0	0.00	310	7	745	310	9	943	3	120	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																Max	Min	Avg	8	0.05	3.8				
																29.53	29.48	29.52							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

14

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.48	994.2	1005	998.4	
	29.50	995.1	2009	999.3	
	29.52	995.6	1005	999.7	
	29.53	995.9	1003	1000.1	5.0
	29.53	995.9	5000	1000.1	
	29.52	995.8	6001	1000.0	
	29.52	995.8	4000	999.9	
	29.52	995.6	6002	999.7	1.9

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z	0	0	0.1	-5.9	2.1	0.3																						
15-18Z	90	4	-0.4	-5.3	1.7	-1.0																						
18-21Z	80	6	-0.3	-5.8	1.0	-1.9																						
21-24Z		5	0.6	-9.4	1.1	-0.6																						
12 hr Max/Min					2.1	-1.9																						
00-03Z	110	8	1.2	-9.8	2.0	0.4																						
03-06Z	90	6	1.2	-9.6	1.8	0.7																						
06-09Z	0	0	1.5	-6.3	2.3	0.4																						
09-12Z	0	0	0.4	-7.9	1.6	-1.3																						
12 hr Max/Min					2.3	-1.3																						
Avg Wind							Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling				
Dir	Spd						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500		
94	4						00-06L	0.0	0.0	0.0	-8.0	17.6	0.0	0.0	0.0	0.00	120	10	1928	120	12	1927	5	90	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																29.51	29.43	29.48	8	0.08	4.2							

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 15

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.51	995.3	6003	999.5	
	29.50	995.1	6002	999.3	
	29.51	995.1	4000	999.3	
	29.49	994.8	8003	999.0	1.1
	29.47	993.9	8009	998.1	
	29.47	993.7	6002	998.0	
	29.44	993.1	6006	997.1	
	29.43	992.7	6004	996.9	2.9

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)							
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000					
12-15Z	0	0	1.7	-9.0	2.0	-0.8									3	190	1439	4	200	1424	6	120									
15-18Z	120	7	-0.6	-9.3	1.3	-0.7									10	90	1741	13	90	1745	7	160									
18-21Z	120	11	-1.6	-8.2	0.7	-2.5									13	110	2049	16	110	2048	6	110									
21-24Z	70	9	-0.7	-8.9	-0.1	-4.6									18	60	2122	23	60	2157	5	110									
12 hr Max/Min					2.0	-4.6																									
00-03Z	80	15	-3.9	-7.4	-0.4	-4.3									20	60	113	24	60	111	4	110									
03-06Z	100	15	-3.8	-7.6	-3.4	-4.4									20	60	504	23	60	449	3										
06-09Z	60	11	-4.3	-8.4	-3.7	-4.9									22	60	649	24	60	649	1										
09-12Z	80	7	-1.0	-12.5	-0.6	-4.5									17	70	900	22	60	939	1										
12 hr Max/Min					-0.4	-4.9																									
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000						
89	9	2.0	-4.9	-0.3	00-06L	0.0	0.0	0.0	-14.0	6.8	0.0	0.0	0.0	0.00	60	22	649	60	24	111	4	110	00-06L	0.0							
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	Max	Min	Avg	8	0.08	6.9									
																	29.42	29.34	29.39												

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

16

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.42	992.2	6005	996.4	
	29.41	991.9	6003	996.0	
	29.41	991.7	0002	995.9	
	29.39	991.2	6005	995.3	3.6
	29.38	991.0	6002	995.2	
	29.37	990.5	6005	994.8	
	29.37	990.5	4000	994.6	
	29.34	989.7	7008	993.8	3.0

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)							
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000					
12-15Z	0	0	-0.3	-10.7	0.4	-2.6										13	50	1207	16	50	1210	1									
15-18Z	100	5	-1.9	-12.0	0.0	-3.7										10	110	1618	12	120	1741	2									
18-21Z	90	6	-1.4	-10.9	1.2	-2.1										8	110	1819	10	110	1828	2									
21-24Z	110	6	1.8	-13.2	2.1	-1.8										8	110	2338	10	110	2348	1									
12 hr Max/Min					2.1	-3.7																									
00-03Z	60	13	0.7	-10.4	2.5	0.4										14	70	242	18	60	241	5	180								
03-06Z	60	9	0.9	-11.3	1.3	0.1										16	60	259	19	60	325	2									
06-09Z	160	15	-1.4	-5.9	1.3	-1.5										20	150	849	25	150	849	3									
09-12Z	150	17	-3.5	-7.3	-1.2	-3.6										24	170	1008	29	170	1041	7	90								
12 hr Max/Min					2.5	-3.6																									
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000						
113	9	2.5	-3.7	0.4	00-06L	0.0	0.0	0.0	-13.0	8.6	0.0	0.0	0.0	0.00	170	24	1008	170	29	1041	3	90	00-06L	0.0	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	29.52	29.33	29.39	8	0.19	6.2									

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

17

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.33	989.2	6005	993.3	
	29.33	989.2	4000	993.4	
	29.34	989.5	3003	993.6	
	29.35	989.8	3003	994.0	1.4
	29.38	991.0	2012	995.2	
	29.42	992.2	2012	996.4	
	29.46	993.4	1012	997.6	
	29.52	995.8	3024	999.9	6.1

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	140	17	-4.4	-10.3	-3.2	-4.5									22	140	1406	32	160	1409	5	90								
15-18Z	150	10	-4.4	-9.2	-4.0	-4.6									18	150	1733	26	140	1738	7	30								
18-21Z	150	16	-2.7	-7.9	-2.5	-4.5									26	170	1901	32	170	1845	6	30								
21-24Z	170	19	-0.8	-7.4	-0.7	-2.8									25	170	2326	31	170	2309	6	60								
12 hr Max/Min				-0.7	-4.6																									
00-03Z	150	19	0.1	-8.6	0.1	-0.9									21	170	17	30	160	216	7	80								
03-06Z	130	14	0.5	-9.2	0.6	0.2									19	140	326	28	160	328	7	80								
06-09Z	100	8	0.9	-10.2	1.3	0.3									14	130	559	20	160	606	7	180								
09-12Z	110	10	0.8	-11.2	1.2	0.1									12	150	1020	20	170	1019	7	180								
12 hr Max/Min				1.3	-0.9																									
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
143	14	1.3	-4.6	-0.7	00-06L	0.0	0.0	0.0	-13.0	8.6	0.0	0.0	0.0	0.00	170	26	1901	160	32	1409	7	30	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
																29.60	29.40	29.52	8	0.20	5.9									

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

18

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.58	997.5	1017	1001.7	
	29.60	998.1	1006	1002.4	
	29.57	997.3	6008	1001.4	
	29.53	995.9	7014	1000.1	6.1
	29.50	994.9	6010	999.2	
	29.49	994.4	6005	998.7	
	29.45	993.2	8012	997.4	
	29.40	991.7	8015	995.8	4.1

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)		
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z	60	12	-1.6	-9.9	0.7	-1.5										16	60	1337	20	60	1450	7	140			
15-18Z	70	11	0.4	-12.6	0.8	-1.6										17	60	1534	22	60	1543	7	150			
18-21Z	50	14	-0.1	-12.7	0.7	-1.4										15	60	2044	20	50	2037	7	150			
21-24Z	60	15	0.7	-12.4	2.2	-0.1										17	40	2344	23	60	2343	7	130			
12 hr Max/Min					2.2	-1.6																				
00-03Z	40	15	-0.2	-9.1	1.7	-0.5										17	40	211	22	40	210	7	100			
03-06Z	60	17	0.4	-10.1	0.6	-0.5										16	60	413	21	60	412	5	100			
06-09Z	110	8	0.6	-12.0	1.8	0.5										12	60	607	16	50	610	2				
09-12Z	40	5	2.9	-16.3	2.9	0.3										12	80	1021	15	70	1020	1				
12 hr Max/Min					2.9	-0.5																				
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500		
59	12	2.9	-1.6	1.4	00-06L	0.0	0.0	0.0	-9.0	15.8	0.0	0.0	0.0	0.00	60	17	1534	60	23	2343	5	100	00-06L	0.0		
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg	8	0.27	4.5						
															29.36	29.09	29.23									

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

19

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.36	990.2	8015	994.3	
	29.34	989.5	6007	993.6	
	29.29	987.8	8017	991.9	
	29.24	986.3	7015	990.5	9.6
	29.21	985.1	7012	989.3	
	29.17	983.9	7012	988.1	
	29.14	982.9	6010	987.0	
	29.09	981.0	7019	985.1	10.7

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)		
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z	70	5	0.8	-14.3	3.0	0.6										9	320	1200	11	310	1200	1				
15-18Z	70	8	1.2	-13.4	1.4	0.2										12	60	1631	15	60	1630	2				
18-21Z	90	9	0.1	-12.1	1.8	-0.2										11	80	2041	16	110	1939	2				
21-24Z	80	10	1.6	-10.4	2.1	0.1										12	80	2125	17	80	2113	2				
12 hr Max/Min					3.0	-0.2																				
00-03Z	80	10	-0.2	-4.9	1.2	-0.8										14	100	159	17	90	158	5	180			
03-06Z	110	8	-0.6	-3.1	0.2	-1.2										13	60	322	15	60	445	6	80			
06-09Z	130	9	-0.9	-2.5	-0.5	-1.2				SN	2.9					11	120	611	13	110	611	7	7		2.2	
09-12Z	130	8	-1.6	-3.2	-1.0	-1.8				SN	3.0				T	10	140	1145	14	150	1145	8	7		2.1	
12 hr Max/Min					1.2	-1.8																				
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Total Obs Taken			Daily Pres Diff	Daily Temp Diff	Time
95	8			3.0	-1.8	1.4	00-06L	0.0	0.0	0.0	-8.0	17.6	5.9	0.0	0.0	T	100	14	159	80	17	2113	4	7	00-06L	0.0
							06-12L	0.0	0.0	0.0															06-12L	0.0
							12-18L	0.0	0.0	0.0															12-18L	0.0
							18-24L	0.0	0.0	0.0															18-24L	0.0
																29.19	29.05	29.10	8	0.14	4.8					

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 20

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.08	980.7	8003	984.8	
	29.06	980.0	6007	984.2	
	29.05	979.9	6001	984.0	
	29.06	980.2	1003	984.3	6.1
	29.08	980.9	3007	985.0	
	29.11	981.7	3008	985.8	
2.6	29.15	983.1	1014	987.2	
2.7	29.19	984.4	1013	988.6	3.4

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
4.3	5.3

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z	100	8	-3.1	-4.2	-1.6	-3.2	2.5	2.9	2.9	SN	3.0	BR	1.7				0.07	11	90	1449	16	110	1201	8	7		3.0	
15-18Z	50	11	-2.0	-4.8	-1.5	-3.6	0.3	0.3	0.3	SN	0.9	BR	0.3					13	40	1634	16	60	1624	7	70		0.3	
18-21Z	150	13	-0.9	-9.7	-0.6	-2.1												15	140	2029	20	140	2026	6	70			
21-24Z	150	9	-0.2	-8.3	-0.2	-1.3												14	150	2313	19	140	2114	7	60			
12 hr Max/Min					-0.2	-3.6																						
00-03Z	150	16	-0.9	-8.1	0.7	-1.0												16	150	248	22	150	209	7	60			
03-06Z	150	16	-1.9	-6.6	-1.1	-2.1												17	140	517	23	130	502	7	35			
06-09Z	90	8	-1.6	-5.1	-1.5	-2.5				SN	1.8							11	150	558	16	140	815	7	35			
09-12Z	160	7	0.6	-6.6	0.6	-1.7												T	11	90	910	14	90	909	7	50		
12 hr Max/Min					0.7	-2.5																						
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling				
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Total Obs Taken			Daily Pres Diff	Daily Temp Diff	Time	<500	
132	11			0.7	-3.6	-0.7	00-06L	2.8	3.2	3.2	-11.0	12.2	5.8	1.9	0.0	0.07	140	17	517	130	23	502	7	7	00-06L	0.0		
							06-12L	0.0	0.0	0.0																06-12L	0.0	
							12-18L	0.0	0.0	0.0																12-18L	0.0	
							18-24L	0.0	0.0	0.0																18-24L	0.0	
																29.42	29.23	29.33				8	0.19	4.3				

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 21

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	29.23	985.8	3014	990.0	
0.3	29.26	986.6	3008	990.9	
	29.29	987.8	1012	992.0	
	29.32	988.8	1010	993.1	8.6
	29.33	989.3	1005	993.5	
	29.39	991.2	2019	995.3	
	29.42	992.4	1012	996.6	
	29.41	991.9	8005	996.1	7.5

y (hrs)	
<1000	<3000
3.3	3.3
0.0	0.0
0.0	0.0
0.0	0.0

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Dir,

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z	90	5	0.1	-6.9	1.1	-0.2									10	60	1328	17	160	1338	7	80						
15-18Z	150	13	0.3	-7.8	0.8	0.0								14	140	1743	22	150	1748	6	80							
18-21Z	140	15	-0.4	-6.0	0.6	-0.5								18	150	2049	26	140	2028	6	80							
21-24Z	100	12	-1.5	-5.2	-0.5	-2.1								15	100	2350	19	100	2349	6	80							
12 hr Max/Min					1.1	-2.1																						
00-03Z	100	18	-2.0	-5.6	-1.4	-2.4								19	100	158	25	100	121	5	90							
03-06Z	100	9	-1.6	-5.7	-1.2	-2.5								21	90	257	24	90	303	4								
06-09Z	90	10	-0.2	-7.2	0.0	-2.4								19	60	612	21	60	612	3								
09-12Z	310	3	0.9	-7.1	0.9	-1.3								10	80	903	13	70	859	2								
12 hr Max/Min					0.9	-2.5																						
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling				
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Total Obs Taken			Daily Pres Diff	Daily Temp Diff	Time	<500	
112	11			1.1	-2.5	-0.1	00-06L	0.0	0.0	0.0	-10.0	14.0	0.0	0.0	0.0	0.00	90	21	257	140	26	2028	5	80	00-06L	0.0		
							06-12L	0.0	0.0	0.0															06-12L	0.0		
							12-18L	0.0	0.0	0.0															12-18L	0.0		
							18-24L	0.0	0.0	0.0															18-24L	0.0		
																29.41	29.27	29.37				8	0.14	3.6				

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 22

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.41	991.9	4000	996.1	
	29.40	991.4	8005	995.6	
	29.40	991.5	0001	995.7	
	29.40	991.5	0000	995.7	2.7
	29.38	990.9	6006	995.1	
	29.35	989.8	7011	993.9	
	29.31	988.5	7013	992.6	
	29.27	987.3	7012	991.4	4.6

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)							
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000					
12-15Z	340	8	-0.4	-3.6	1.4	-0.5										10	340	1427	13	350	1407	1									
15-18Z		3	0.0	-3.2	0.2	-0.5										11	350	1639	14	350	1605	1									
18-21Z	0	0	0.7	-3.2	1.3	-0.4										5	310	1835	7	310	1834	7	14								
21-24Z	0	0	1.4	-3.1	2.3	0.4										4	330	2115	6	320	2113	6	17								
12 hr Max/Min				2.3	-0.5																										
00-03Z	300	4	1.9	-3.7	2.8	0.7										6	110	218	8	100	217	6	17								
03-06Z	0	0	2.4	-3.7	3.2	1.8										4	210	547	6	210	530	5	20								
06-09Z	0	0	0.6	-4.7	3.1	0.6										4	160	839	6	180	808	5	20								
09-12Z	110	4	-0.2	-5.0	2.0	-0.2										6	140	1049	7	110	1137	6	20								
12 hr Max/Min				3.2	-0.2																										
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Temp	Time	<500	<1000					
343	2	3.2	-0.5	2.0	00-06L	0.0	0.0	0.0	-5.0	23.0	0.0	0.0	0.0	0.00	350	11	1639	350	14	1605	5	14	00-06L	0.0							
																Altimeter															
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																29.22	29.04	29.11	8	0.18	3.7										

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

23

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.22	985.4	7019	989.5	
	29.17	983.9	7015	988.0	
0.7	29.13	982.6	6013	986.7	
3.0	29.11	981.7	8009	985.9	9.8
3.0	29.08	980.7	6010	984.8	
0.4	29.05	979.9	6008	984.0	
1.5	29.05	979.7	6002	983.8	
3.0	29.04	979.5	6002	983.6	7.8

j (hrs)	
<1000	<3000
0.0	0.0
0.0	3.7
0.0	3.4
0.0	4.5

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Dir,

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpr Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)			
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	100	6	-0.8	-6.1	0.2	-1.0									7	100	1439	9	110	1439	6	20					
15-18Z	110	9	-3.8	-5.9	-0.7	-3.8									10	110	1742	12	110	1747	7	20					
18-21Z	90	9	-4.7	-6.9	-3.5	-5.0									10	90	2049	14	90	2048	7	25					
21-24Z	120	10	-3.0	-6.7	-3.0	-5.0				SN	0.6				12	110	2334	17	100	2318	7	5	0.8	0.8			
12 hr Max/Min					0.2	-5.0																					
00-03Z	70	10	-3.5	-7.3	-2.7	-3.6									14	100	131	17	60	231	7	25					
03-06Z	80	11	-3.6	-6.8	-3.2	-3.8									14	60	536	18	60	533	7	80					
06-09Z	70	14	-5.1	-8.5	-3.5	-5.1									16	80	825	20	90	718	8	80					
09-12Z	70	13	-4.1	-10.3	-3.9	-5.1									15	70	1014	19	50	1013	8	80					
12 hr Max/Min					-2.7	-5.1																					
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Total Obs Taken			Daily Pres Diff	Daily Temp Diff	Time	<500
86	10			0.2	-5.1	-1.6	00-06L	0.0	0.0	0.0	-13.0	8.6	0.6	0.0	0.0	T	80	16	825	90	20	718	7	5	00-06L	0.0	
							06-12L	0.0	0.0	0.0							Altimeter								06-12L	0.8	
							12-18L	0.0	0.0	0.0							Max	Min	Avg						12-18L	0.0	
							18-24L	0.0	0.0	0.0							29.22	29.05	29.13						18-24L	0.0	
																					8	0.17	5.3				

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 24

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	29.05	979.7	1002	983.8	
3.0	29.06	980.0	3003	984.2	
3.0	29.09	981.0	3010	985.2	
3.0	29.12	982.1	1011	986.2	0.4
0.3	29.14	982.7	1006	986.9	
	29.16	983.4	3007	987.6	
	29.19	984.6	1012	988.8	
	29.22	985.6	1010	989.7	6.1

y (hrs)	
<1000	<3000
0.0	6.0
0.8	6.0
0.0	0.3
0.0	0.0

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Dir,

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)		
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z	70	11	-3.8	-10.6	-3.8	-4.3										13	60	1314	16	70	1436	8	80			
15-18Z	80	9	-4.1	-9.7	-3.8	-4.2										13	70	1602	17	80	1601	8	55			
18-21Z	80	10	-3.0	-11.3	-2.9	-4.2										12	80	1924	15	80	1913	8	60			
21-24Z	110	7	-2.1	-11.4	-1.8	-3.2										11	80	2113	13	90	2113	8	60			
12 hr Max/Min					-1.8	-4.3																				
00-03Z	70	9	-2.8	-10.9	-1.6	-2.8										10	60	249	13	60	245	8	50			
03-06Z	100	7	-2.2	-10.8	-1.9	-2.9										12	60	358	14	60	357	8	90			
06-09Z	80	10	-4.6	-8.4	-2.5	-4.6										13	90	833	16	90	728	8	60			
09-12Z	80	11	-6.2	-10.7	-4.7	-6.3										T	15	70	1139	19	70	1137	8	60		
12 hr Max/Min					-1.6	-6.3																				
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Total Obs Taken			Daily Pres Diff	Daily Temp Diff	Time
	82	9		-1.6	-6.3	-3.2	00-06L	0.0	0.0	0.0	-14.0	6.8	1.8	0.0	0.0	T	70	15	1139	70	19	1137	8	50	00-06L	0.0
							06-12L	0.0	0.0	0.0															06-12L	0.0
							12-18L	0.0	0.0	0.0															12-18L	0.0
							18-24L	0.0	0.0	0.0															18-24L	0.0

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 25

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.24	986.3	1007	990.3	
	29.27	987.0	1007	991.2	
	29.31	988.7	3017	992.9	
	29.35	989.8	1011	994.0	7.7
	29.37	990.7	1009	994.8	
	29.39	991.4	3007	995.6	
	29.43	992.6	2012	996.7	
	29.44	993.1	1005	997.4	7.5

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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Dir,

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z	70	11	-6.3	-10.7	-6.0	-6.5				SN	3.0							15	80	1234	19	70	1444	8	25			
15-18Z	60	7	-3.3	-12.0	-3.2	-7.0				SN	2.3	BR	0.3					14	80	1550	18	80	1548	8	25			
18-21Z	40	7	-2.9	-9.6	-2.8	-3.4				SN	3.0							10	40	1948	12	40	1944	8	25			
21-24Z	40	7	-2.4	-10.8	-2.3	-3.6				SN	3.0							10	40	2301	12	40	2259	8	25			
12 hr Max/Min					-2.3	-7.0																						
00-03Z		4	-1.0	-12.5	-0.8	-2.4				SN	0.4							8	80	223	11	70	139	8	50			
03-06Z	20	4	-1.4	-11.1	-0.4	-2.0												9	40	429	10	40	432	7	60			
06-09Z	0	0	-0.8	-7.2	-0.4	-1.7												4	320	812	6	10	604	6	100			
09-12Z	320	3	-1.0	-6.7	-0.4	-1.3												4	340	1108	5	340	1107	7	95			
12 hr Max/Min					-0.4	-2.4																						
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling				
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Dir			Spd	Time	Time	<500	<1000
46	5			-0.4	-7.0	-2.6	00-06L	0.0	0.0	0.0	-15.0	5.0	11.8	0.3	0.0	T	80	15	1234	70	19	1444	8	25	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																Max	Min	Avg				8	0.08	6.6	12-18L	0.0		
																29.45	29.37	29.42			18-24L	0.0						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 26

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
0.3	29.44	993.1	0000	997.4	
3.0	29.44	993.1	0000	997.2	
3.0	29.45	993.2	1001	997.3	
2.4	29.44	992.7	8005	997.0	2.9
	29.41	992.0	6007	996.2	
	29.39	991.4	6006	995.6	
	29.39	991.2	6002	995.3	
	29.37	990.7	6005	994.8	2.4

j (hrs)	
<1000	<3000
0.0	3.3
0.0	5.4
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)			
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z		0	-1.6	-6.6	-0.9	-1.8										3	10	1416	4	10	1419	8	20				
15-18Z		0	0.2	-5.5	0.3	-1.6										2	200	1621	3	210	1617	8	20				
18-21Z		0	0.7	-5.7	0.7	-0.4										2	200	2021	3	200	2020	8	80				
21-24Z		0	0.9	-5.1	1.5	0.1										2	250	2350	4	290	2345	7	80				
12 hr Max/Min					1.5	-1.8																					
00-03Z		0	1.9	-5.3	2.1	0.7										3	210	200	4	200	202	7	90				
03-06Z		0	0.5	-4.6	2.2	0.2										4	200	538	4	210	540	7	90				
06-09Z		0	0.7	-5.8	1.2	-0.1										2	210	848	3	210	846	6	100				
09-12Z		0	-0.6	-4.9	2.7	-0.7										4	190	1135	5	180	1128	5	100				
12 hr Max/Min					2.7	-0.7																					
Avg Wind																											
Dir	Spd																										
	0				2.7	-1.8	1.2																				
								Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
								Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500
								00-06L	0.0	0.0	0.0	-4.0	24.8	0.0	0.0	0.0	0.00	200	4	538	180	5	1128	7	20	00-06L	0.0
								06-12L	0.0	0.0	0.0							Altimeter								06-12L	0.0
								12-18L	0.0	0.0	0.0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0.0
								18-24L	0.0	0.0	0.0							29.35	29.20	29.29	8	0.15	4.5			18-24L	0.0

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 27

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
0.3	29.35	989.8	7009	994.1	
0.8	29.34	989.5	6003	993.7	
	29.33	989.3	6002	993.5	
	29.32	988.8	7005	993.0	3.9
	29.29	987.8	7010	992.0	
	29.26	987.0	6008	991.2	
	29.24	986.1	6009	990.2	
	29.20	984.8	7013	988.9	5.9

y (hrs)	
<1000	<3000
0.0	1.1
0.0	0.0
0.0	0.0
0.0	0.0

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Dir,

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Zulu	Dir	Spd		Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	<1000			
12-15Z	360	7	-0.7	-7.6	0.3	-1.3										11	360	1441	14	350	1431	5	35							
15-18Z	50	8	-1.2	-7.6	-0.7	-1.6										10	40	1649	15	360	1542	4								
18-21Z	60	11	-3.5	-8.4	-0.7	-4.6										13	60	2044	18	60	2041	5	45							
21-24Z	70	12	-3.6	-14.7	-3.0	-3.9										15	80	2225	19	90	2320	2	45							
12 hr Max/Min					0.3	-4.6																								
00-03Z	60	18	-5.2	-13.3	-3.4	-5.2										19	90	209	23	60	249	2								
03-06Z	100	17	-5.4	-14.8	-4.2	-5.6										20	60	345	24	60	308	1								
06-09Z	80	12	-6.6	-13.2	-4.7	-6.6										17	90	647	22	100	639	5	80							
09-12Z	90	9	-7.3	-14.1	-6.4	-7.5										14	80	915	19	70	910	4	80							
12 hr Max/Min					-3.4	-7.5																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Temp	Time	<500	<1000				
70	12	0.3	-7.5	-2.3	00-06L	0.0	0.0	0.0	-16.0	3.2	0.0	0.0	0.0	0.00	60	20	345	60	24	308			4	35	00-06L	0.0				
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															29.14	29.02	29.07	8	0.12	7.8										

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 28

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.14	982.9	7019	987.0	
	29.10	981.5	7014	985.7	
	29.09	981.0	6005	985.2	
	29.08	980.9	8001	985.1	7.9
	29.06	980.2	7007	984.3	
	29.05	979.7	6005	983.9	
	29.04	979.3	6004	983.5	
	29.02	978.8	6005	983.1	6.0

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)								
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z	80	8	-6.7	-17.2	-6.6	-7.5																										
15-18Z	100	8	-6.9	-15.2	-6.4	-7.4									T	12	60	1544	16	60	1543	7	60									
18-21Z	70	12	-6.7	-15.1	-6.6	-7.3																										
21-24Z	60	9	-5.5	-15.0	-5.3	-6.8									T	17	60	2300	18	60	2301	8	65									
12 hr Max/Min					-5.3	-7.5																										
00-03Z	60	6	-5.9	-13.5	-5.2	-6.0																										
03-06Z	70	11	-6.2	-12.4	-4.5	-6.8																										
06-09Z	70	9	-6.3	-10.4	-6.1	-7.4																										
09-12Z	60	8	-6.8	-10.3	-6.3	-6.8									T	13	60	1036	16	60	907	7	50									
12 hr Max/Min					-4.5	-7.4																										
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling			
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time	Time						
71	9	-4.5	-7.5	-5.5	00-06L	0.0	0.0	0.0	-16.0	3.2	2.6	0.0	0.0	T	60	17	2300	70	20	5	5	7	50	00-06L	0.0							
																	Altimeter															
																	Max			Total Obs Taken			Daily Pres Diff			Daily Temp Diff						
																	29.14 29.01 29.06			8			0.13			3.0						

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

: 29

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
29.01	978.5	6003	982.7		
29.01	978.5	0000	982.7		
29.02	978.7	3002	982.9		
29.03	979.0	2003	983.2	1.9	
29.05	979.9	2009	984.1		
29.08	980.7	3008	984.9		
29.12	982.1	3014	986.3		
29.14	982.7	1006	986.9	3.9	

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)			
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	60	8	-6.9	-9.8	-6.7	-7.2			1.8	SN	3.0					11	60	1413	16	60	1412	7	40				
15-18Z	70	9	-7.1	-10.2	-6.9	-7.7			0.2	SN	1.1				T	13	60	1748	16	60	1501	7	40				
18-21Z	90	6	-6.1	-10.1	-5.7	-7.1				SN	0.5					12	60	1839	16	70	1803	7	60				
21-24Z		6	-5.3	-9.8	-4.9	-5.9				SN	2.1				T	10	70	2243	14	60	2112	7	40				
12 hr Max/Min					-4.9	-7.7																					
00-03Z	110	13	-6.8	-10.4	-5.0	-7.0				SN	1.1					16	110	237	20	70	239	6	40				
03-06Z	60	13	-7.4	-13.1	-6.6	-8.1									T	18	60	502	24	60	524	5	100				
06-09Z	70	14	-6.9	-13.9	-6.6	-7.5										16	70	846	21	70	805	6	100				
09-12Z	70	13	-7.9	-13.0	-6.5	-7.9										15	70	1142	21	60	1042	6	110				
12 hr Max/Min					-5.0	-8.1																					
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	<500	<1000			
75	10	-4.9	-8.1	-6.0	00-06L	0.0	0.0	1.9	-17.0	1.4	7.7	0.0	0.0	T	60	18	502	60	24	524	6	40	00-06L	0.0			
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															Max	Min	Avg	8	0.06	3.2							
															29.21	29.15	29.19										

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

30

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.15	983.1	1004	987.3	
	29.16	983.6	1005	987.9	
	29.19	984.3	2007	988.6	
	29.20	984.8	3005	989.0	5.8
	29.20	984.8	4000	989.0	
	29.21	985.1	3003	989.3	
	29.21	985.1	0000	989.3	
	29.21	985.3	2002	989.6	2.6

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)	
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500
12-15Z	80	9	-7.7	-13.6	-7.4	-7.9										14	90	1427	18	90	1315	6	100		
15-18Z	90	11	-7.4	-14.7	-6.9	-7.4										14	90	1604	16	80	1741	5	100		
18-21Z	90	11	-8.1	-15.2	-7.0	-8.5										14	100	2004	19	100	2004	3	100		
21-24Z	70	12	-7.9	-15.7	-7.7	-8.9										17	60	2316	20	60	2316	3			
12 hr Max/Min					-6.9	-8.9																			
00-03Z	50	10	-6.6	-13.4	-6.5	-7.8										17	60	217	20	60	216	4			
03-06Z	60	11	-6.2	-14.0	-6.1	-7.2										15	40	450	20	60	429	5	150		
06-09Z	50	12	-7.2	-12.7	-5.2	-7.3										16	60	617	20	60	616	7	50		
09-12Z	50	10	-6.8	-12.9	-6.4	-7.4										14	60	1037	18	60	1133	6	45		
12 hr Max/Min					-5.2	-7.8																			
Avg Wind		Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Time	<1600						<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Dir			Spd	Time
67	11			-5.2	-8.9	-6.4	00-06L	0.0	0.0	0.0	-18.0	-0.4	0.0	0.0	0.0	60	17	2316	60	20	2316	5	45	00-06L	0.0
							06-12L	0.0	0.0	0.0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff			06-12L	0.0
							12-18L	0.0	0.0	0.0						Max	Min	Avg						12-18L	0.0
							18-24L	0.0	0.0	0.0						29.33	29.21	29.26	8	0.12	3.7			18-24L	0.0

Note 1: Color coding. Green headings indicate blocks the Weather Observer must complete. The remainder are calculated/ completed by MS Excel.

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

31

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.21	985.3	5000	989.5	
	29.22	985.4	3001	989.7	
	29.23	985.9	3005	990.2	
	29.25	986.5	3006	990.7	1.7
	29.27	987.1	3006	991.3	
	29.29	987.6	1005	991.9	
	29.31	988.7	3011	992.9	
	29.33	989.2	0005	993.4	3.9

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

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Station:
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Monthly Climatology / Page 1

Month:
JAN 2014

Date	Temp (C)			Visibility (hrs)												WX and Duration				Pcpn Amt	Avg Wind		Max Wind				
	Max	Min	Avg	< 1600				< 4800				< 9999				sn/sg/ic	fg/br	bs	Total		Spd	Dir	Spd	Dir			
				00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total									
1	3.3	-0.6	2.0																					6	53	14	60
2	4.0	0.1	2.7																					6	99	19	60
3	6.2	1.8	4.7																					2	122	9	310
4	5.8	0.7	4.1																					1	280	8	310
5	6.0	0.8	4.3																					8	102	17	150
6	5.2	-0.7	3.2																					8	30	17	150
7	3.5	-1.5	1.8															1.51			1.51	T		11	143	23	170
8	3.3	-4.7	0.6																					9	92	21	60
9	3.1	-6.7	-0.2																					9	95	19	80
10	-3.0	-8.5	-4.8															3.84			3.84	T		11	84	24	60
11	-0.4	-5.0	-1.9																					5	94	17	60
12	1.0	-5.5	-1.2																					8	83	17	60
13	3.6	-2.7	1.5	0.53	0.17			0.70	1.81	0.50			2.31	2.96	0.92		3.88	10.33			10.33	0.05	3	13	9	350	
14	3.4	-0.4	2.1																					3	298	7	310
15	2.3	-1.9	0.9																					4	94	10	120
16	2.0	-4.9	-0.3																					9	89	22	60
17	2.5	-3.7	0.4																					9	113	24	170
18	1.3	-4.6	-0.7																					14	143	26	170
19	2.9	-1.6	1.4																					12	59	17	60
20	3.0	-1.8	1.4															5.92			5.92	T		8	95	14	100
21	0.7	-3.6	-0.7	2.75				2.75	3.17				3.17	3.17			3.17	5.75	1.92		7.67	0.07	11	132	17	140	
22	1.1	-2.5	-0.1																					11	112	21	90
23	3.2	-0.5	2.0																					2	343	11	350
24	0.2	-5.1	-1.6															0.58	0.00		0.58	T		10	86	16	80
25	-1.6	-6.3	-3.2															1.83	0.00		1.83	T		9	82	15	70
26	-0.4	-7.0	-2.6															11.75	0.27		12.02	T		5	46	15	80
27	2.7	-1.8	1.2																					0		4	200
28	0.3	-7.5	-2.3																					12	70	20	60
29	-4.5	-7.5	-5.5															2.58			2.58	T		9	71	17	60
30	-4.9	-8.1	-6.0											1.92			1.92	7.71			7.71	T		10	75	18	60
31	-5.2	-8.9	-6.4																					11	67	17	60

Monthly Statistics

Temp (C)			Visibility (hrs)												WX and Duration				Pcpn Total	Avg Wind		Max Wind		Max Gust
Max	Min	Avg	< 1600				< 4800				< 9999				sn/sg/ic	fg/br	bs	Total		Dir	Spd	Dir	Spd	
6.2	-8.9	-0.1	3.3	0.2	0.0	0.0	5.0	0.5	0.0	0.0	8.1	0.9	0.0	0.0	51.8	2.2	0.0	54.0	0.12	89	8	170	26	32

Temp (C)		Total Hrs =or< 1600:		Total Hrs =or< 4800:		Total Hrs < 9999:	
Average		3.5	5.5	9.0			
Max	Min	Total Days =or< 1600:	Total Days =or< 4800:	Total Days < 9999:			
1.632	-3.55	2	2	3			
		% Hrs =or< 1600:	% Hrs =or< 4800:	% Hrs < 9999:			
		0.5%	0.7%	1.2%			
		% Days =or< 1600:	% Days =or< 4800:	% Days < 9999:			
		6.5%	6.5%	9.7%			

Total Hrs	
sn/sg/ic:	51.8
fg/br:	2.2
bs:	0.0
Total Days	
sn/sg/ic:	10
fg/br:	2
bs:	0

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- NE
- E
- SE
- S
- SW
- W
- NW

Max Gust
18
22
11
9
22
23
29
27
23
28
22
20
12
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12
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29
32
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17
23
26
14
20
19
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24
20
24
20

Station:
NZCM

Monthly Climatology / Page 2

Month:
JAN 2014

Date	Avg Sky Cover	Low-est CIG	Ceiling (hrs)															Altimeter (in)			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	Min Wind Chill		
			< 500					< 1000					< 3000					Max	Min	Avg						
			00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total									
1	1																		29.55	29.46	29.51	8	0.09	3.9	-5.0	
2	1																		29.49	29.41	29.46	8	0.08	3.9	-7.0	
3	1																		29.39	29.29	29.34	8	0.10	4.4	-2.0	
4	2																		29.31	29.24	29.26	8	0.07	5.1	-1.0	
5	1																		29.56	29.33	29.48	8	0.23	5.2	-5.0	
6	6	80																	29.54	29.37	29.43	8	0.17	5.9	-8.0	
7	7	60																	29.40	29.35	29.38	8	0.05	5.0	-9.0	
8	2	220																	29.42	29.37	29.40	8	0.05	8.0	-14.0	
9	3																		29.37	29.32	29.34	8	0.05	9.8	-16.0	
10	5	4		1.70				1.70	0.50	3.00				3.50	0.50	6.00	0.75		7.25	29.49	29.40	29.46	8	0.09	5.5	-19.0
11	7	50																	29.51	29.47	29.49	8	0.04	4.6	-13.0	
12	7	50																	29.45	29.34	29.39	8	0.11	6.5	-13.0	
13	7	8								0.75				0.75	5.16	2.42	0.33		7.91	29.46	29.34	29.39	8	0.12	6.3	-7.0
14	3	120																	29.53	29.48	29.52	8	0.05	3.8	-4.0	
15	5	90																	29.51	29.43	29.48	8	0.08	4.2	-8.0	
16	4	110																	29.42	29.34	29.39	8	0.08	6.9	-14.0	
17	3	90																	29.52	29.33	29.39	8	0.19	6.2	-13.0	
18	7	30																	29.60	29.40	29.52	8	0.20	5.9	-13.0	
19	5	100																	29.36	29.09	29.23	8	0.27	4.5	-9.0	
20	4	7									4.25	4.25						5.25	5.25	29.19	29.05	29.10	8	0.14	4.8	-8.0
21	7	7							3.25					3.25	3.25				3.25	29.42	29.23	29.33	8	0.19	4.3	-11.0
22	5	80																	29.41	29.27	29.37	8	0.14	3.6	-10.0	
23	5	14														3.67	3.42	4.50	11.59	29.22	29.04	29.11	8	0.18	3.7	-5.0
24	7	5		0.75				0.75		0.75				0.75	6.00	6.00	0.25		12.25	29.22	29.05	29.13	8	0.17	5.3	-13.0
25	8	50																	29.44	29.24	29.35	8	0.20	4.7	-14.0	
26	8	25													3.25	5.42			8.67	29.45	29.37	29.42	8	0.08	6.6	-15.0
27	7	20												1.08					1.08	29.35	29.20	29.29	8	0.15	4.5	-4.0
28	4	35																	29.14	29.02	29.07	8	0.12	7.8	-16.0	
29	7	50																	29.14	29.01	29.06	8	0.13	3.0	-16.0	
30	6	40																	29.21	29.15	29.19	8	0.06	3.2	-17.0	
31	5	45																	29.33	29.21	29.26	8	0.12	3.7	-18.0	

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)												Altimeter			Total Obs Taken	Min Wind Chill																						
	< 500				< 1000				< 3000				Max	Min	Avg																								
	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L																											
5	0.0	2.5	0.0	0.0	3.8	4.5	0.0	4.3	19.2	23.5	4.8	9.8	29.60	29.01	29.34	248	-19.0																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Total Hrs =or< 500:</td> <td>2.5</td> <td>Total Hrs =or< 1000:</td> <td>12.5</td> <td>Total Hrs =or< 3000:</td> <td>57.3</td> </tr> <tr> <td>Total Days =or< 500:</td> <td>2</td> <td>Total Days =or< 1000:</td> <td>5</td> <td>Total Days =or< 3000:</td> <td>8</td> </tr> <tr> <td>% Hrs =or< 500:</td> <td>0.3%</td> <td>% Hrs =or< 1000:</td> <td>1.7%</td> <td>% Hrs =or< 3000:</td> <td>7.7%</td> </tr> <tr> <td>% Days =or< 500:</td> <td>6.5%</td> <td>% Days =or< 1000:</td> <td>16.1%</td> <td>% Days =or< 3000:</td> <td>25.8%</td> </tr> </table>																Total Hrs =or< 500:	2.5	Total Hrs =or< 1000:	12.5	Total Hrs =or< 3000:	57.3	Total Days =or< 500:	2	Total Days =or< 1000:	5	Total Days =or< 3000:	8	% Hrs =or< 500:	0.3%	% Hrs =or< 1000:	1.7%	% Hrs =or< 3000:	7.7%	% Days =or< 500:	6.5%	% Days =or< 1000:	16.1%	% Days =or< 3000:	25.8%
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