

# McMurdo Station Daily Observation Worksheet

Date: 01

Time Zulu	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					-29.8	-30.5										4	50	1415	5	50	1414													
15-18Z	0	0	-30.6	-35.8	-29.2	-30.6								IC	6.0																			
18-21Z					-29.3	-36.4										4	40	2049	5	40	2036													
21-24Z	0	0	-27.2	-31.8	-27.1	-29.6								IC	6.0																		1.7	
12 hr Max/Min					-27.1	-36.4																												
00-03Z					-26.7	-28.5										5	30	119	8	30	119													
03-06Z		5	-23.8	-28.1	-23.6	-29.9								SN/IC	6.0																			
06-09Z					-23.3	-26.7										8	160	624	11	160	757													
09-12Z	110	9	-22.2	-27.3	-21.5	-26.0								SN/IC	6.0																			2.9
12 hr Max/Min					-21.5	-29.9																												
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)									
110		4			-21.5	-36.4	-26.5	00-06L	0.0	0.0	0.0	-45.0	-49.0	24.0	0.0	0.0	T	120	18	1103	140	29	1117	4	30	00-06L	0.0	0.0	0.0					
								06-12L	0.0	0.0	0.0						Altimeter			Total Obs	Daily Pres Diff	Daily Temp Diff			06-12L	0.0	0.0	0.0						
								12-18L	0.0	0.0	0.0						Max	Min	Avg	29.47	29.41	29.44			12-18L	0.0	0.0	0.0						
								18-24L	0.0	0.0	0.0									4	0.06	14.9			18-24L	0.0	0.0	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 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)					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					-21.2	-26.8																											
15-18Z	100	7	-21.8	-28.6	-21.7	-25.1									T	15	80	1626	20	80	1608	6	45										
18-21Z					-20.7	-22.8																											
21-24Z	90	11	-22.9	-30.3	-20.6	-24.3									T	14	80	2159	17	80	2220	8	40										
12 hr Max/Min					-20.6	-26.8																											
00-03Z					-20.6	-23.2																											
03-06Z	0	0	-25.1	-31.9	-20.6	-26.9																											
06-09Z					-24.5	-25.6																											
09-12Z	80	7	-26.6	-32.4	-24.5	-28.0																											
12 hr Max/Min					-20.6	-28.0																											
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	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000						
90	6			-20.6	-28.0	-23.1	00-06L	0.0	0.0	0.0	-42.0	-43.6	10.6	0.0	0.0	T	110	17	1425	120	23	1425	4	40	00-06L	0.0							
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																	Max			29.51		29.46		29.49									
																	4		0.05		7.4												

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.

02

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.48	994.2	8010	998.8	
	29.51	995.4	1009	999.9	2.7
	29.50	994.8	0004	999.4	
	29.46	993.4	0002	998.1	1.0

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

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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					-24.9	-26.6										11	80	1202	16	80	1202					
15-18Z	0	0	-26.4	-32.9	-25.9	-29.6										5	90	1720	6	90	1719	0				
18-21Z					-26.4	-30.8										9	40	2049	12	50	2048					
21-24Z	40	6	-26.3	-30.7	-25.8	-26.4										12	40	2108	15	40	2108	0				
12 hr Max/Min				-24.9	-30.8																					
00-03Z					-25.4	-27.1										8	40	229	12	40	229					
03-06Z	40	4	-25.3	-29.6	-25.3	-25.9										9	40	329	12	40	307	0				
06-09Z					-24.5	-25.6										7	40	642	12	40	634					
09-12Z	0	0	-29.7	-34.6	-25.5	-29.7										4	30	859	6	30	859	0				
12 hr Max/Min				-24.5	-29.7																					
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		Dir	Spd	Time	Dir	Spd	Time			Time	<500
40	3						00-06L	0.0	0.0	0.0	-43.0	-45.4	0.0	0.0	0.0	0.00	40	12	2108	80	16	1202	0		00-06L	0.0
																	Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																	Max	Min	Avg	4	0.14	6.3				
																	29.41	29.27	29.34							

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.

03

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.41	991.9	6011	996.5	
	29.37	990.7	6008	995.2	4.7
	29.31	988.5	8010	993.0	
	29.27	987.1	6009	991.7	6.3

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

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04

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.23	985.6	6007	990.2	
	29.21	985.3	0001	989.8	5.4
	29.17	983.7	6005	988.2	
	29.14	982.9	6003	987.5	4.2

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

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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					-28.4	-32.4										3	60	1239	4	60	1237					
15-18Z	100	3	-28.8	-34.7	-28.5	-30.4									3	100	1750	3	100	1750	0					
18-21Z					-27.8	-29.3									7	110	2036	10	100	2035						
21-24Z	0	0	-28.1	-33.4	-25.7	-29.2									5	90	2147	6	90	2145	0					
12 hr Max/Min					-25.7	-32.4																				
00-03Z					-27.1	-28.9										17	70	247	24	70	237					
03-06Z	70	22	-31.9	-40.2	-27.3	-32.1									24	70	549	29	70	548	0					
06-09Z					-31.9	-34.3									27	70	602	36	80	704						
09-12Z	80	17	-33.0	-40.6	-32.8	-34.8				IC	5.2				T	22	80	1143	27	80	913	3				
12 hr Max/Min					-27.1	-34.8																				
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust					Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcpn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500		
76	11				00-06L	0.0	0.0	0.0	-54.0	-65.2	5.2	0.0	0.0	T	70	27	602	80	36	704	1		00-06L	0.0		
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg	4	0.08	9.1						
															29.21	29.13	29.16									

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05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.13	982.4	0000	987.0	
	29.13	982.4	2001	987.0	2.9
	29.15	983.1	3007	987.6	
	29.21	985.3	1007	990.0	2.4

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

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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					-32.3	-34.3																										
15-18Z	70	17	-32.9	-40.7	-32.4	-33.7									T	21	70	1713	25	70	1618	3										
18-21Z					-30.1	-33.7										20	70	1817	23	70	1817											
21-24Z	0	0	-30.1	-35.8	-29.3	-31.7									T	5	90	2237	6	90	2237	3										
12 hr Max/Min					-29.3	-34.3																										
00-03Z					-30.3	-33.9										7	100	9	8	100	8											
03-06Z	0	0	-32.0	-37.4	-30.5	-32.8									T	7	40	342	9	40	333	0										
06-09Z					-31.3	-35.2										3	170	634	6	150	633											
09-12Z	0	0	-33.5	-38.9	-32.9	-35.6									T	6	90	858	6	100	1032	0										
12 hr Max/Min					-30.3	-35.6																										
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							
70	4	-29.3	-35.6	-31.4	00-06L	0.0	0.0	0.0	-53.0	-63.4	24.0	0.0	0.0	0.0	80	23	1317	80	28	1330	2		00-06L	0.0								
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																Max			29.21		29.13		29.19									
																			4		0.08		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.

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06

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.20	984.8	8003	989.5	
	29.21	985.3	0000	989.8	2.9
	29.20	984.8	5004	989.5	
	29.13	982.4	8015	987.0	2.9

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					-32.9	-33.5																				
15-18Z		0	-33.5	-39.0	-32.9	-37.4									T	3	40	1746	5	30	1749	0				
18-21Z					-32.4	-35.3																				
21-24Z		0	-34.0	-39.5	-32.1	-34.6									T	5	20	2105	7	20	2158	1				
12 hr Max/Min					-32.1	-37.4																				
00-03Z					-32.5	-34.6																				
03-06Z		0	-33.8	-39.4	-33.4	-34.8									T	4	80	334	4	80	539	0				
06-09Z					-33.2	-34.5																				
09-12Z		0	-35.3	-41.1	-31.8	-36.4			0.5	IC	6.0	BR	0.5		T	5	80	1043	7	80	1042	0				
12 hr Max/Min					-31.8	-36.4																				
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	CIG	Time	<500	<1000	
	0		-31.8	-37.4	-33.7	00-06L	0.0	0.0	0.0	-46.0	-50.8	24.0	0.5	0.0	T	40	6	2034	40	10	2032	0		00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	4	0.25	5.6					
																29.04	28.79	28.90								

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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.

07

Station	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.04	979.3	8020	984.0	
	28.92	975.4	8019	980.1	9.9
	28.84	972.6	6014	977.2	
	28.79	970.9	6010	975.5	11.5

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

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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					-31.8	-35.9										13	110	1344	15	90	1348														
15-18Z	0	0	-36.0	-41.9	-32.0	-36.4			0.5	IC	6.0	BR	0.5			7	90	1527	9	100	1525	0													
18-21Z					-31.9	-36.6										8	80	1941	10	80	1936														
21-24Z	160	3	-37.1	-43.1	-33.9	-37.1				IC	6.0					4	360	2239	5	360	2237	0													
12 hr Max/Min					-31.8	-37.1																													
00-03Z					-33.5	-39.1										4	50	243	6	40	243														
03-06Z		5	-32.3	-37.7	-32.0	-35.7			0.8	IC	6.0	BR	0.8			9	40	519	12	40	505	0													
06-09Z					-32.3	-38.3										8	30	648	12	30	708														
09-12Z	0	0	-32.6	-38.1	-32.8	-37.2			1.8	IC	6.0	BR	1.8			2	50	1103	3	190	914	0													
12 hr Max/Min					-32.0	-39.1																													
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	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000								
160	2			-31.8	-39.1	-34.2	00-06L	0.0	0.0	0.5	-52.0	-61.6	24.0	3.1	0.0	T	110	13	1344	90	15	1348	0		00-06L	0.0									
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff											
																	Max			28.74		28.50		28.64		4		0.24		7.3					

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.

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08

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.74	969.2	8011	973.9	
	28.71	968.5	7005	973.1	6.9
	28.61	965.0	7017	969.6	
	28.50	961.1	6025	965.6	9.8

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)					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					-32.5	-35.2																										
15-18Z	0	0	-33.8	-39.4	-31.3	-35.0																										
18-21Z					-31.0	-35.3																										
21-24Z	110	14	-28.4	-33.4	-26.9	-33.2		1.0	1.5	SN/IC	6.0	BR	1.0																			
12 hr Max/Min					-26.9	-35.3																										
00-03Z					-28.2	-30.9																										
03-06Z	100	11	-27.5	-35.5	-27.0	-30.4		0.5	1.5	SN	2.5	BR	1.5	BS	1.1																	
06-09Z					-27.0	-29.6																										
09-12Z	60	7	-30.0	-36.9	-28.1	-31.0																										
12 hr Max/Min					-27.0	-31.0																										
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	Avg	Low-est	Time	<500	<1000							
96	8	-26.9	-35.3	-29.7	00-06L	0.0	0.0	0.0	-51.0	-59.8	14.5	2.5	1.1	T	120	22	20	120	32	30	4	10	00-06L	0.0								
																		Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																		Max			28.92		28.44		28.69							
																		4		0.48		8.4										

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

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	28.44	959.0	6010	963.6	
1.0	28.61	964.8	1040	969.4	3.7
1.0	28.78	970.5	3025	975.1	
	28.92	975.4	1028	980.1	14.3

j (hrs)	
<1000	<3000
0.0	0.0
0.0	1.0
0.0	1.0
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					-29.5	-30.8										11	40	1257	13	30	1257					
15-18Z	80	12	-30.4	-36.4	-29.9	-30.7										12	80	1750	15	90	1749	0				
18-21Z					-30.2	-34.2										16	90	1821	20	90	1814					
21-24Z	110	9	-33.5	-39.1	-33.3	-35.3				IC	3.3				T	17	100	2145	20	100	2146	0				
12 hr Max/Min					-29.5	-35.3																				
00-03Z					-33.2	-34.8										11	120	102	15	120	45					
03-06Z	90	3	-31.7	-37.8	-31.7	-33.7				IC	2.8				T	10	110	438	12	100	405	0				
06-09Z					-29.9	-31.7										7	90	750	8	100	750					
09-12Z	40	7	-30.2	-37.1	-29.8	-35.3				IC	2.5				T	10	40	1112	13	40	1132	0				
12 hr Max/Min					-29.8	-35.3																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time	Time			<500	<1000
81	8		-29.5	-35.3	-31.4	00-06L	0.0	0.0	0.0	-54.0	-65.2	8.5	0.0	0.0	T	100	17	2145	90	20	1814			00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg				12-18L	0.0			
																28.94	28.91	28.93	4	0.03	5.8	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
	28.94	976.1	1003	980.7	
	28.91	975.1	6012	979.7	10.3
	28.92	975.3	8003	979.8	
	28.93	975.6	8001	980.2	0.2

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					-29.4	-31.0									T	11	40	1209	14	40	1209					
15-18Z	0	0	-31.0	-37.3	-29.0	-31.1				IC	6.0				T	8	30	1603	12	30	1540	0				
18-21Z					-29.2	-31.4										5	40	2050	7	40	2050					
21-24Z	0	0	-30.7	-36.9	-28.8	-32.5				IC	2.7				T	6	40	2125	8	40	2124	1				
12 hr Max/Min					-28.8	-32.5																				
00-03Z					-29.7	-30.7										4	70	226	5	70	13					
03-06Z	90	8	-28.2	-35.1	-28.1	-30.6										8	80	537	10	80	550	0				
06-09Z					-28.2	-31.6										15	110	810	18	110	808					
09-12Z	100	12	-31.9	-37.1	-31.2	-33.7			1.8	IC	2.6	BR	1.8		T	17	110	912	19	100	1026	0				
12 hr Max/Min					-28.1	-33.7																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	
96	5	-28.1	-33.7	-30.0		00-06L	0.0	0.0	0.0	-51.0	-59.8	11.3	1.8	0.0	T	110	17	912	100	19	1026	0		00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	4	0.05	5.6					
																28.93	28.88	28.90								

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	28.90	974.8	8005	979.3	
	28.89	974.3	0000	978.9	0.8
	28.88	974.1	0001	978.8	
	28.93	975.6	1008	980.2	0.0

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)					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					-31.0	-35.2																										
15-18Z	110	10	-33.8	-39.3	-32.5	-36.7			6.0	IC	6.0	BR	6.0										2	20								
18-21Z					-30.8	-34.6																										
21-24Z	100	4	-28.9	-39.1	-28.0	-30.7			1.3	IC	1.3	BR	1.3										0									
12 hr Max/Min					-28.0	-36.7																										
00-03Z					-27.7	-32.8																										
03-06Z	0	0	-30.7	-40.2	-28.1	-37.4																	0									
06-09Z					-29.0	-34.6																										
09-12Z	0	0	-31.2	-39.7	-29.3	-34.7																	0									
12 hr Max/Min					-27.7	-37.4																										
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		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
107	4			-27.7	-37.4	-30.9	00-06L	0.0	0.0	6.0	-53.0	-63.4	7.3	7.3	0.0	T	100	14	1407	90	18	1227			1	20	00-06L	0.0				
																	Altimeter															
																	Max			Total Obs Taken			Daily Pres Diff			Daily Temp Diff						
																	29.14 29.04 29.10			4			0.10			9.7						

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.

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Station	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
2.0	29.04	979.3	3018	984.0	
1.0	29.10	981.4	3009	986.0	7.1
	29.13	982.6	1007	987.3	
	29.14	982.9	0003	987.6	7.3

j (hrs)	
<1000	<3000
0.0	2.0
0.0	1.0
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					-29.6	-31.7										4	140	1339		5	140	1339				
15-18Z	0	0	-32.1	-39.9	-28.1	-33.4										4	140	1613		5	150	1612	0			
18-21Z					-31.2	-34.0										9	70	1943		11	70	1941				
21-24Z	70	6	-33.1	-41.5	-33.0	-35.3										14	70	2150		17	70	2149	1			
12 hr Max/Min					-28.1	-35.3																				
00-03Z					-32.1	-36.6										7	70	13		9	70	12				
03-06Z	0	0	-34.8	-40.9	-33.3	-36.6										3	60	544		4	180	504	0			
06-09Z					-33.9	-36.0										4	100	650		4	100	659				
09-12Z	0	0	-35.3	-41.1	-34.4	-38.5										4	150	1115		5	150	1115	4			
12 hr Max/Min					-32.1	-38.5																				
Avg Wind		Max		Min	Avg		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	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	Sky Cover	CIG	Time	<500		
70	2		-28.1	-38.5	-31.6	0.0	0.0	0.0	-51.0	-59.8	0.0	0.0	0.0	0.00	70	14	2150	70	17	2149	1		00-06L	0.0		
															Altimeter			Total	Daily	Daily						
															Max	Min	Avg	Obs	Pres	Temp						
															29.17	29.10	29.13	Taken	Diff	Diff						
																		4	0.07	10.4						

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 changed from conventional. The order is: Spd, Dir and Time.

: 13

Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.14	982.7	8002	987.4	
	29.10	981.5	8002	986.3	0.1
	29.11	981.9	5000	986.7	
	29.17	983.9	1009	988.7	1.0

(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		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					-34.6	-37.0										5	80	1402	6	90	1423									
15-18Z		0	-36.2	-42.1	-34.7	-36.7										3	90	1708	4	90	1707	1								
18-21Z					-36.1	-38.5										5	110	1901	7	100	1850									
21-24Z		0	-37.1	-43.2	-35.9	-37.9				IC	4.5				T	4	90	2136	4	90	2137	1	20							
12 hr Max/Min					-34.6	-38.5																								
00-03Z					-35.8	-38.5										3	70	238	4	40	247									
03-06Z		0	-37.0	-43.0	-36.2	-38.2	0.2	0.5	1.2	IC	6.0	BR	1.2		T	3	80	550	3	80	550	0								
06-09Z					-36.2	-39.5										4	80	746	5	90	750									
09-12Z		0	-37.4	-43.6	-36.5	-39.9		0.8	1.3	IC	6.0	BR	1.3		T	7	100	1135	9	100	1131	0								
12 hr Max/Min					-35.8	-39.9																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			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	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
	0	-34.6	-39.9	-36.4	00-06L	0.0	0.0	0.0	-53.0	-63.4	16.5	2.4	0.0	T	100	7	1135	100	9	1131	1	20	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.03	5.3									
																29.23	29.20	29.21												

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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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.20	985.1	3003	989.8	
0.5	29.23	985.8	3003	990.5	4.3
	29.20	984.8	8005	989.5	
	29.22	985.6	1005	990.3	1.7

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.5
0.0	0.0
0.0	0.0

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15

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.23	985.8	0001	990.5	
	29.22	985.4	5002	990.3	0.4
	29.22	985.4	1003	990.2	
	29.23	985.9	5002	990.8	0.3

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)					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					-34.0	-36.6																					
15-18Z	0	0	-35.8	-41.7	-33.4	-36.4									T	3	160	1700	4	170	1700	0					
18-21Z					-34.5	-36.0																					
21-24Z	80	3	-34.6	-40.3	-34.0	-35.1									T	4	90	2350	4	90	2350	0					
12 hr Max/Min					-33.4	-36.6																					
00-03Z					-33.9	-35.1																					
03-06Z	100	8	-40.8	-47.3	-33.7	-41.2	1.5	1.5	2.2		BR	2.2															
06-09Z					-34.0	-41.5																					
09-12Z	90	21	-33.6	-42.0	-32.2	-34.3		1.0	2.0	IC	4.5	BR	2.0		T	24	90	1147	30	90	1140	0					
12 hr Max/Min					-32.2	-41.5																					
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	Time	<500	<1000		
92	8	-32.2	-41.5	-35.3	00-06L	0.0	0.0	0.0	-59.0	-74.2	13.2	4.2	0.0	T	90	24	1147	90	30	1140			00-06L	0.0			
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																29.17	29.06	29.10	4	0.11	9.3						

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.

16

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.17	983.9	6013	988.6	
	29.09	981.2	6013	985.9	4.2
	29.06	980.2	5002	985.0	
	29.07	980.2	8001	985.0	5.7

Station	
<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					-33.4	-34.9										26	80	1429	35	80	1428					
15-18Z	80	18	-36.7	-45.7	-34.8	-37.6			IC	6.0					T	27	80	1532	35	80	1505	0				
18-21Z					-31.1	-36.3										18	90	1757	20	70	1924					
21-24Z	0	0	-35.3	-41.7	-32.6	-39.8			IC	1.8					T	10	90	2114	14	90	2114	0				
<b>12 hr Max/Min</b>																										
00-03Z					-34.9	-40.0										8	30	250	12	30	237					
03-06Z	0	0	-33.6	-42.0	-32.1	-37.2										10	40	511	15	40	511	0				
06-09Z					-32.7	-33.9										10	40	614	14	30	620					
09-12Z	20	10	-35.1	-40.9	-31.4	-35.1			IC	2.0					T	9	20	1130	10	10	1150	0				
<b>12 hr Max/Min</b>																										
<b>Avg Wind</b>		<b>Max</b>		<b>Min</b>		<b>Avg</b>		<b>Visibility (hrs)</b>			<b>Min Wind Chill</b>		<b>WX and Duration</b>			<b>Pcpn</b>	<b>Max Wind</b>			<b>Max Gust</b>			<b>Avg</b>	<b>Low-est</b>	<b>Ceiling</b>	
Dir Spd		Temp		Temp		Temp		Time <1600 <4800 <9999			C F		sn/sg/ic fg/br bs			Total	Dir Spd Time			Dir Spd Time			Cover	CIG	Time <500 <1000	
59 7		-31.1		-40.0		-34.1		00-06L 0.0 0.0 0.0			-60.0 -76.0		9.8 0.0 0.0			T	80 27 1532			80 35 1428			0		00-06L 0.0	
								06-12L 0.0 0.0 0.0									Total			Daily					06-12L 0.0	
								12-18L 0.0 0.0 0.0									Obs			Pres					12-18L 0.0	
								18-24L 0.0 0.0 0.0									Taken			Diff					18-24L 0.0	
																	29.23 29.14 29.21			4 0.09 8.9						

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 changed from conventional. The order is: Spd, Dir and Time.

: 17

Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.14	983.1	3014	987.8	
	29.22	985.4	1006	990.1	4.2
	29.23	985.8	8001	990.6	
	29.23	985.8	5002	990.5	5.6

1 (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		Temp	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			Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-28.2	-35.2									10	20	1157	11	20	1158										
15-18Z	0	0	-34.1	-39.7	-28.0	-35.0									8	20	1609	12	20	1602	0									
18-21Z					-32.3	-35.9									3	80	2012	5	10	1910										
21-24Z	0	0	-32.2	-37.6	-27.1	-34.1									3	50	2115	3	100	2318	6	80								
12 hr Max/Min					-27.1	-35.9																								
00-03Z					-30.1	-32.6									6	100	113	8	100	113										
03-06Z	130	7	-23.3	-39.3	-22.4	-36.6									10	120	548	17	130	545	0									
06-09Z					-22.9	-25.8									14	100	708	17	100	708										
09-12Z	90	5	-23.2	-38.3	-22.9	-24.9									15	80	1004	18	80	1004	0									
12 hr Max/Min					-22.4	-36.6																								
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	3	-22.4	-36.6	-27.1	00-06L	0.0	0.0	0.0	-51.0	-59.8	0.0	0.0	0.0	0.00	80	15	1004	80	18	1004	2	80	00-06L	0.0	0.0					
																Altimeter														
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
																29.22	29.19	29.20	4	0.03	14.2									

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.

18

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.20	984.9	3001	989.6	
	29.20	984.9	1006	989.7	0.5
	29.22	985.8	0003	990.4	
	29.19	984.6	6010	989.3	1.2

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)					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					-23.0	-29.4										8	90	1200	10	90	1159				
15-18Z	0	0	-33.3	-40.8	-26.8	-33.3										5	50	1713	6	50	1713	0			
18-21Z					-26.6	-33.8										7	40	2031	10	40	2022				
21-24Z	50	5	-29.0	-36.2	-24.1	-30.1										12	20	1334	15	20	2334	4			
12 hr Max/Min					-23.0	-33.8																			
00-03Z					-23.2	-29.0										9	20	46	13	20	46				
03-06Z	0	0	-22.7	-27.7	-22.6	-26.7				SN	5.0				T	8	140	518	10	140	521	7	20		
06-09Z					-18.0	-25.2										7	40	710	12	40	710				
09-12Z		3	-20.9	-27.1	-18.3	-26.2				SN	6.0				T	7	80	1147	10	40	924	2	20		
12 hr Max/Min					-18.0	-29.0																			
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust					Ceiling	
Dir	Spd	Max Temp	Min Temp	Avg Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500	
50	2	-18.0	-33.8	-23.3	00-06L	0.0	0.0	0.0						T	20	12	1334	20	15	2334	3	20	00-06L	0.0	
															Altimeter										
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
															29.16	28.88	29.02	4	0.28	15.8					

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.

: 19

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure	
	Alt (in)	Press (mb)				
<3000	29.16	983.2	8007	987.9		
	29.07	980.4	6014	984.8	4.5	
	5.0	28.97	977.1	6015	981.7	
	1.5	28.88	974.1	5014	978.5	10.5

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	5.0
0.0	1.5

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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					-13.0	-22.1										12	80	1449	16	80	1443					
15-18Z	100	8	-11.2	-14.9	-10.8	-13.4			1.0	SN	6.0				T	20	140	1647	24	140	1646	8	35			
18-21Z					-9.9	-11.2										39	150	2036	46	150	2041					
21-24Z	150	32	-13.4	-16.3	-11.0	-13.5	5.5	5.7	6.0	SN	6.0		BS	5.9		44	150	2149	52	170	2200	8	0	3.0	4.5	
12 hr Max/Min					-9.9	-22.1																				
00-03Z					-13.5	-15.7										34	140	15	42	130	1					
03-06Z	120	14	-17.4	-21.0	-15.7	-17.8	5.8	6.0	6.0	SN	6.0		BS	6.0		40	140	329	47	150	330	8	0	2.0	3.5	
06-09Z					-13.8	-17.7										39	150	849	49	150	849					
09-12Z	150	38	-12.6	-16.0	-12.6	-14.0	5.4	6.0	6.0	SN	6.0		BS	6.0		44	150	1043	50	150	1007	8	0	2.8	6.0	
12 hr Max/Min					-12.6	-17.8																				
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust					Ceiling		
Dir	Spd	Dir	Spd	Max Temp	Min Temp	Avg Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500
141	23			-9.9	-22.1	-14.0	00-06L	0.0	0.0	1.0	-35.0	-31.0	24.0	0.0	17.9	T	150	44	2149	170	52	2200	8	0	00-06L	0.0
																	Altimeter									
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																	29.03	28.77	28.91	4	0.26	12.2				

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.

: 20

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
2.0	28.83	972.6	8010	976.9	
5.0	28.77	970.5	3014	974.9	9.9
6.0	29.03	979.0	3055	983.4	
6.0	29.00	978.2	3014	982.4	4.1

y (hrs)	
<1000	<3000
0.0	2.0
4.5	5.0
3.5	6.0
6.0	6.0

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: 21

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
2.0	29.09	981.0	1007	985.3	
5.0	29.14	982.7	3029	987.1	12.2
5.0	29.11	981.9	8020	986.1	
6.0	29.18	984.1	6020	988.5	5.9

  

y (hrs)	
<1000	<3000
2.0	2.0
2.5	5.0
0.5	5.0
6.0	6.0

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: 22

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
4.0	29.37	990.7	1058	995.1	
	29.45	993.4	0010	997.7	10.7
	29.42	992.2	8001	996.6	
	29.38	991.0	5003	995.4	6.9

y (hrs)	
<1000	<3000
4.0	4.0
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					-11.5	-14.0										12	110	1236	13	110	1235				
15-18Z	110	18	-17.3	-25.3	-12.1	-18.5										18	70	1646	23	100	1730	0			
18-21Z					-15.8	-21.3										30	130	1843	40	130	2036				
21-24Z	80	22	-23.4	-32.0	-22.5	-25.3										29	80	2221	40	80	2239	1			
12 hr Max/Min					-11.5	-25.3																			
00-03Z					-20.4	-24.7										26	80	8	34	80	4				
03-06Z	100	16	-24.4	-32.7	-23.6	-24.9				IC	5.7				T	23	90	517	31	80	345	0			
06-09Z					-22.2	-24.6										21	100	611	25	100	617				
09-12Z	70	5	-20.7	-30.1	-20.1	-22.5				IC	3.3				T	12	90	1034	16	90	1027	0			
12 hr Max/Min					-20.1	-24.9																			
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust						
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500	<1000
93	15				00-06L	0.0	0.0	0.0	-43.0	-45.4	9.0	0.0	0.0	T	130	30	1843	130	40	2036	0		00-06L	0.0	0.0
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
															Max	Min	Avg	4	0.09	13.8					
															29.50	29.41	29.45								

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)			
	29.41	991.9	3014	996.2	
	29.50	994.9	1006	999.4	1.5
	29.47	994.1	6012	998.5	
	29.42	992.0	6014	996.6	1.0

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					-19.8	-21.9																				
15-18Z	0	0	-25.3	-29.7	-20.6	-26.6																				
18-21Z					-21.0	-31.7																				
21-24Z	0	0	-22.7	-26.7	-20.9	-24.7	3.3	3.3	3.3																	
12 hr Max/Min					-19.8	-31.7																				
00-03Z					-22.6	-28.2																				
03-06Z		4	-26.6	-33.9	-25.9	-27.7																				
06-09Z					-26.3	-30.6																				
09-12Z	70	21	-29.4	-37.1	-29.1	-30.4		2.5	3.5	SN	4.0			BS	3.5	T										
12 hr Max/Min					-22.6	-30.6																				
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		Dir	Spd	Time	Dir	Spd	Time			Time	<500		
70	6		-19.8	-31.7	-23.8	00-06L	0.0	0.0	0.0	-49.0	-56.2	4.0	3.3	3.5	T	80	26	1058	80	31	1057		3	1	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg								
																29.35	29.06	29.23								
																		4	0.29	11.9						

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.

24

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.35	989.8	6012	994.4	
0.5	29.29	988.0	8021	992.4	6.9
	29.22	985.6	6010	990.1	
4.0	29.06	980.0	8030	984.6	12.0

j (hrs)	
<1000	<3000
0.0	0.0
0.5	0.5
0.0	0.0
0.0	4.0

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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					-28.0	-29.6																					
15-18Z	70	13	-29.3	-35.8	-28.6	-29.9			6.0	SN	6.0			BS	3.0	T	24	80	1235	29	80	1235	8	25			
18-21Z					-28.3	-30.6																					
21-24Z	60	3	-26.5	-31.9	-26.4	-28.8		1.0	2.0	SN	6.0			BS	1.0	T	13	70	2159	15	70	2158	8	25			
12 hr Max/Min					-26.4	-30.6																					
00-03Z					-25.9	-26.6											9	70	245	11	70	244					
03-06Z	100	11	-31.3	-37.3	-25.7	-33.7				SN/IC	6.0					T	14	100	530	16	100	532	0	25			
06-09Z					-28.5	-33.5																					
09-12Z	90	9	-34.4	-40.5	-30.9	-34.4				IC	6.0					T	21	100	1047	23	100	1139	4	15			
12 hr Max/Min					-25.7	-34.4																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust								
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	Ceiling <500			
83	9				00-06L	0.0	0.0	6.0	-53.0	-63.4	24.0	0.0	4.0	T	80	24	1235	80	29	1235	5	15	00-06L	0.0			
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															Max	Min	Avg	4	0.22	8.7							
															29.15	28.93	29.01										

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

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
6.0	28.97	977.1	6016	981.7	
6.0	28.93	975.6	6005	980.3	12.4
5.0	28.97	977.1	1010	981.7	
0.5	29.15	983.1	3037	987.7	3.1
y (hrs)					
<1000	<3000				
0.0	6.0				
0.0	6.0				
0.0	5.0				
0.0	0.5				

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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					-32.0	-35.0																					
15-18Z	90	17	-34.5	-40.8	-31.7	-34.6			1.0	IC	6.0			BS	1.0	T	24	80	1647	28	80	1320	2				
18-21Z					-32.9	-35.0											27	80	2015	33	80	2015					
21-24Z	90	15	-32.2	-39.0	-32.2	-33.6				SN/IC	6.0					T	23	90	2146	31	80	2100	7	35			
12 hr Max/Min					-31.7	-35.0																					
00-03Z					-29.6	-32.7											20	90	26	26	90	25					
03-06Z	0	0	-29.7	-35.6	-28.3	-31.9				IC	6.0					T	15	90	302	19	90	300	0	15			
06-09Z					-28.1	-33.1											7	90	640	8	90	639					
09-12Z	0	0	-31.1	-36.3	-27.8	-32.7				IC	6.0					T	3	30	1012	4	30	1009	7	10			
12 hr Max/Min					-27.8	-33.1																					
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	Total	Dir	Spd	Time	Dir	Spd	Time	4	10	Time	<500		
90	8	-27.8	-35.0	-30.2	00-06L	0.0	0.0	1.0	-56.0	-68.8	24.0	0.0	1.0	1.0	T	80	27	2015	80	33	2015			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	4	0.34	7.2						
																29.64	29.30	29.51									

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		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.30	988.1	1025	992.9	
	29.48	994.1	3030	998.9	18.5
1.5	29.60	998.5	1018	1003.2	
2.2	29.64	999.7	3002	1004.4	16.6
j (hrs)					
<1000	<3000				
0.0	0.0				
0.0	0.0				
0.0	1.5				
0.0	2.2				

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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					-26.7	-30.9																					
15-18Z	90	6	-28.4	-33.2	-28.2	-30.7									T	12	110	1508	13	80	1605	8	20				
18-21Z					-28.4	-29.3																					
21-24Z	0	0	-28.3	-33.1	-26.3	-28.4									T	10	70	2110	13	80	2103	8	25				
12 hr Max/Min					-26.3	-30.9																					
00-03Z					-27.8	-31.1																					
03-06Z	0	0	-31.4	-36.6	-30.3	-32.0									T	3	160	438	4	160	438	7	15				
06-09Z					-29.9	-31.8																					
09-12Z	0	0	-28.0	-32.7	-27.8	-31.2									T	4	90	1050	6	90	1046	8	18				
12 hr Max/Min					-27.8	-32.0																					
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	<500	<1000		
90	2		-26.3	-32.0	-28.2	00-06L	0.0	0.0	0.0	-45.0	-49.0	24.0	0.0	0.0	T	110	12	1508	80	17	1846			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	4	0.36	5.7						
																29.62	29.26	29.44									

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
6.0	29.62	999.0	8003	1003.7	
6.0	29.52	995.6	8022	1000.3	1.5
6.0	29.36	990.0	6032	994.7	
6.0	29.26	987.0	6010	991.6	12.7
y (hrs)					
<1000	<3000				
0.0	6.0				
0.0	6.0				
0.0	6.0				
0.0	6.0				

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: 28

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	29.25	986.5	6003	991.1	
	29.31	988.7	3010	993.3	6.9
2.1	29.43	992.7	1019	997.4	
1.6	29.57	997.2	1018	1001.9	10.2
y (hrs)					
<1000	<3000				
0.0	3.0				
0.0	0.0				
0.0	2.1				
0.0	1.6				

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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					-31.2	-32.5																									
15-18Z	110	11	-31.4	-39.6	-29.5	-35.1									T	15	110	1718	21	110	1718	0									
18-21Z					-29.3	-32.0																									
21-24Z	90	11	-30.1	-41.1	-30.1	-31.7									T	15	90	2343	21	100	2342	7	60								
12 hr Max/Min					-29.3	-35.1																									
00-03Z					-30.0	-34.5																									
03-06Z	80	13	-31.2	-44.2	-30.2	-33.3									T	22	80	448	26	80	520	3	30								
06-09Z					-31.2	-32.5																									
09-12Z	70	15	-32.7	-45.7	-31.8	-33.9									T	21	70	1027	26	80	905	0	30								
12 hr Max/Min					-30.0	-34.5																									
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						
86	13	-29.3	-35.1	-31.2	00-06L	0.0	0.0	0.0	-53.0	-63.4	24.0	0.0	0.0	0.0	T	80	22	448	80	26	520	3	30	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	Max			29.77		29.67		29.74							
																	29.77			29.67		29.74									
																				4		0.10		5.8							

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.

29

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.67	1000.8	1019	1005.5	
	29.74	1003.0	3007	1007.8	14.3
	29.77	1004.1	1008	1008.7	
	29.77	1004.1	6006	1008.8	6.9

Wind (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					-30.6	-32.8																												
15-18Z	90	10	-33.2	-42.9	-30.4	-33.3			2.0	SN/IC	6.0						T	13	90	1718	16	90	1741	6	15									
18-21Z					-32.0	-33.3																												
21-24Z	0	0	-32.4	-38.5	-31.7	-33.6			2.0	SN/IC	6.0						T	12	70	2057	13	90	2303	4	13									
12 hr Max/Min					-30.4	-33.6																												
00-03Z					-31.1	-33.5												10	70	228	12	70	227											
03-06Z	0	0	-32.9	-38.4	-28.7	-33.2			0.5	SN/IC	6.0						T	10	70	259	11	70	345	7	11									
06-09Z					-32.4	-33.9													3	50	621	5	50	620										
09-12Z	0	0	-33.9	-39.4	-30.6	-34.5				SN/IC	6.0						T	2	50	917	2	160	939	0	10									
12 hr Max/Min					-28.7	-34.5																												
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	Dir	Spd	Temp	Temp	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Dir	Spd	Time	Time	<500	<1000				
90	3			-28.7	-34.5	-30.6			00-06L	0.0	0.0	2.0	-50.0	-58.0	24.0	0.0	0.0	T	70	18	1200	70	22	1159										
																		Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																		Max	Min	Avg	4	0.02	5.8											
																		29.77	29.75	29.76														

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)			
4.0	29.75	1003.4	8004	1008.1	
4.5	29.76	1003.7	0000	1008.5	0.7
3.5	29.75	1003.6	5000	1008.4	
1.8	29.77	1004.2	1001	1009.0	0.1

j (hrs)	
<1000	<3000
0.0	4.0
0.0	4.5
0.0	3.5
0.0	1.8

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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					-31.2	-34.7									T	2	50	1422	3	90	1333					
15-18Z	0	0	-34.1	-39.8	-33.0	-34.4									T	4	100	1559	6	110	1558	0				
18-21Z					-33.6	-35.2										3	70	2013	4	90	1821					
21-24Z	100	11	-35.5	-41.4	-30.3	-38.7			0.8	SN/IC	6.0				T	14	100	2349	17	100	2315	8	23			
12 hr Max/Min					-30.3	-38.7																				
00-03Z					-33.4	-35.7										16	90	231	19	100	248					
03-06Z	100	17	-36.1	-43.2	-35.1	-36.6			4.0	SN/IC	6.0				T	18	100	532	22	100	529	8	20			
06-09Z					-33.5	-37.1										20	110	736	23	110	744					
09-12Z	90	13	-32.1	-40.8	-31.9	-34.4				IC	6.0				T	14	100	1127	17	90	1138	8	160			
12 hr Max/Min					-31.9	-37.1																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	
97	10	-30.3	-38.7	-33.1	-33.1	00-06L	0.0	0.0	0.0	-56.0	-68.8	24.0	0.0	0.0	T	110	20	736	110	23	744	6	20	00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	4	0.02	8.4					
																29.81	29.79	29.81								

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

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.79	1004.6	1004	1009.4	
2.1	29.81	1005.6	1003	1010.4	1.9
3.9	29.81	1005.6	5004	1010.4	
	29.81	1005.4	8008	1010.2	1.2
y (hrs)					
<1000	<3000				
0.0	0.0				
0.0	2.1				
0.0	3.9				
0.0	0.0				

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### Monthly Climatology / Page 1

Month:  
JUL 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	-21.5	-36.4	-26.5															24.00			24.00	T	4	110	18	120	
2	-20.6	-28.0	-23.1															10.58			10.58	T	6	90	17	110	
3	-24.5	-30.8	-26.6																				3	40	12	40	
4	-24.4	-29.7	-26.2																				1	90	13	100	
5	-25.7	-34.8	-28.7															5.15			5.15	T	11	76	27	70	
6	-29.3	-35.6	-31.4															24.00			24.00	T	4	70	23	80	
7	-31.8	-37.4	-33.7												0.50	0.50		24.00	0.50		24.50	T	0		6	40	
8	-31.8	-39.1	-34.2											0.50		0.75	1.83	3.08	24.00	3.08		27.08	T	2	160	13	110
9	-26.9	-35.3	-29.7								1.00	0.50		1.50				14.50	2.50	1.08	18.08	T	8	96	22	120	
10	-29.5	-35.3	-31.4															8.50			8.50	T	8	81	17	100	
11	-28.1	-33.7	-30.0													1.75	1.75	11.25	1.75		13.00	T	5	96	17	110	
12	-27.7	-37.4	-30.9											6.00	1.25			7.25	7.25	7.25	14.50	T	4	107	14	100	
13	-28.1	-38.5	-31.6																				2	70	14	70	
14	-34.6	-39.9	-36.4			0.20		0.20			0.50	0.80	1.30			1.17	1.25	16.50	2.42		18.92	T	0		7	100	
15	-31.2	-41.9	-34.8			0.50		0.50		1.00	3.50	2.30	6.80		2.17	6.00	4.83	24.00	13.00		37.00	T	2	100	12	110	
16	-32.2	-41.5	-35.3			1.50		1.50			1.50	1.00	2.50			2.17	2.00	13.17	4.17		17.34	T	8	92	24	90	
17	-31.1	-40.0	-34.1															9.75			9.75	T	7	59	27	80	
18	-22.4	-36.6	-27.1																				3	113	15	80	
19	-18.0	-33.8	-23.3															11.00			11.00	T	2	50	12	20	
20	-9.9	-22.1	-14.0		5.50	5.80	5.40	16.70		5.66	6.00	6.00	17.66	1.00	6.00	6.00	6.00	19.00	24.00		17.92	41.92	T	23	141	44	150
21	-10.8	-15.9	-12.5	3.00	3.00		5.80	11.80	5.00	5.00	1.25	6.00	17.25	6.00	6.00	1.25	6.00	19.25	21.00	4.50	19.25	44.75	T	27	145	45	150
22	-9.6	-16.4	-11.9	3.00				3.00	4.00				4.00	4.00				4.00	3.50	2.00	4.00	9.50	T	12	121	41	140
23	-11.5	-25.3	-16.1															9.00			9.00	T	15	93	30	130	
24	-19.8	-31.7	-23.8		3.25			3.25		3.25		2.50	5.75		3.25		3.50	6.75	4.00	3.25	3.50	10.75	T	6	70	26	80
25	-25.7	-34.4	-28.6							1.00			1.00	6.00	2.00			8.00	24.00		4.00	28.00	T	9	83	24	80
26	-27.8	-35.0	-30.2											1.00				1.00	24.00		1.00	25.00	T	8	90	27	80
27	-26.3	-32.0	-28.2															24.00			24.00	T	2	90	12	110	
28	-28.1	-34.5	-30.2													2.00	2.00	24.00	2.00		26.00	T	5	90	19	80	
29	-29.3	-35.1	-31.2															24.00			24.00	T	13	86	22	80	
30	-28.7	-34.5	-30.6											2.00	2.00	0.50		4.50	24.00		24.00	T	3	90	18	70	
31	-30.3	-38.7	-33.1												0.80	4.00		4.80	24.00		24.00	T	10	97	20	110	

### 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	
-9.6	-41.9	-27.9	6.0	11.8	8.0	11.2	9.0	16.9	13.3	18.6	26.5	25.0	23.3	29.7	457.2	46.4	50.8	554.3	0.00	102	7	150	45	53

Temp (C)	
Average	
Max	Min
-25.1	-33.6

Total Hrs =or< 1600:	37.0	Total Hrs =or< 4800:	57.8	Total Hrs < 9999:	104.5
Total Days =or< 1600:	7	Total Days =or< 4800:	9	Total Days < 9999:	17
% Hrs =or< 1600:	5.0%	% Hrs =or< 4800:	7.8%	% Hrs < 9999:	14.0%
% Days =or< 1600:	22.6%	% Days =or< 4800:	29.0%	% Days < 9999:	54.8%

Total Hrs	
sn/sg/ic:	457.2
fg/br:	46.4
bs:	50.8
Total Days	
sn/sg/ic:	27
fg/br:	12
bs:	7



Max Gust
29
23
16
15
36
28
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Station:  
NZCM

### Monthly Climatology / Page 2

Month:  
JUL 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	4	30																	29.47	29.41	29.44	4	0.06	14.9	-45.0
2	4	40																	29.51	29.46	29.49	4	0.05	7.4	-42.0
3	0																		29.41	29.27	29.34	4	0.14	6.3	-43.0
4	0																		29.23	29.14	29.19	4	0.09	5.3	-44.0
5	1																		29.21	29.13	29.16	4	0.08	9.1	-54.0
6	2																		29.21	29.13	29.19	4	0.08	6.3	-53.0
7	0																		29.04	28.79	28.90	4	0.25	5.6	-46.0
8	0																		28.74	28.50	28.64	4	0.24	7.3	-52.0
9	4	10												1.00	1.00		2.00	28.92	28.44	28.69	4	0.48	8.4	-51.0	
10	0																	28.94	28.91	28.93	4	0.03	5.8	-54.0	
11	0																	28.93	28.88	28.90	4	0.05	5.6	-51.0	
12	1	20											2.00	1.00			3.00	29.14	29.04	29.10	4	0.10	9.7	-53.0	
13	1																	29.17	29.10	29.13	4	0.07	10.4	-51.0	
14	1	20												0.50			0.50	29.23	29.20	29.21	4	0.03	5.3	-53.0	
15	0																	29.23	29.22	29.23	4	0.01	10.7	-54.0	
16	0																	29.17	29.06	29.10	4	0.11	9.3	-59.0	
17	0																	29.23	29.14	29.21	4	0.09	8.9	-60.0	
18	2	80																29.22	29.19	29.20	4	0.03	14.2	-51.0	
19	3	20																29.16	28.88	29.02	4	0.28	15.8	-45.0	
20	8	0		3.00	2.00	2.80	7.80		4.50	3.50	6.00	14.00	2.00	5.00	6.00	6.00	19.00	29.03	28.77	28.91	4	0.26	12.2	-35.0	
21	8	2	3.00		0.50	1.50	5.00	2.00	2.50	0.50	6.00	11.00	2.00	5.00	5.00	6.00	18.00	29.18	29.09	29.13	4	0.09	5.1	-32.0	
22	4	5	3.00				3.00	4.00	0.00	0.00	0.00	4.00	4.00				4.00	29.45	29.37	29.41	4	0.08	6.8	-32.0	
23	0																	29.50	29.41	29.45	4	0.09	13.8	-43.0	
24	3	1		0.50			0.50		0.50			0.50		0.50		4.00	4.50	29.35	29.06	29.23	4	0.29	11.9	-49.0	
25	5	15											6.00	6.00	5.00	0.50	17.50	29.15	28.93	29.01	4	0.22	8.7	-53.0	
26	4	10													1.50	2.20	3.70	29.64	29.30	29.51	4	0.34	7.2	-56.0	
27	8	15											6.00	6.00	6.00	6.00	24.00	29.62	29.26	29.44	4	0.36	5.7	-45.0	
28	1	11											3.00		2.10	1.60	6.70	29.57	29.25	29.39	4	0.32	6.4	-52.0	
29	3	30																29.77	29.67	29.74	4	0.10	5.8	-53.0	
30	4	10											4.00	4.50	3.50	1.80	13.80	29.77	29.75	29.76	4	0.02	5.8	-50.0	
31	6	20												2.10	3.90		6.00	29.81	29.79	29.81	4	0.02	8.4	-56.0	

### 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																											
2	6.0	3.5	2.5	4.3	6.0	7.5	4.0	12.0	29.0	31.6	39.0	29.6	29.81	28.44	29.22	124	-60.0																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Total Hrs =or&lt; 500:</td> <td>16.3</td> <td>Total Hrs =or&lt; 1000:</td> <td>29.5</td> <td>Total Hrs =or&lt; 3000:</td> <td>129.2</td> </tr> <tr> <td>Total Days =or&lt; 500:</td> <td>4</td> <td>Total Days =or&lt; 1000:</td> <td>4</td> <td>Total Days =or&lt; 3000:</td> <td>14</td> </tr> <tr> <td>% Hrs =or&lt; 500:</td> <td>2.2%</td> <td>% Hrs =or&lt; 1000:</td> <td>4.0%</td> <td>% Hrs =or&lt; 3000:</td> <td>17.4%</td> </tr> <tr> <td>% Days =or&lt; 500:</td> <td>12.9%</td> <td>% Days =or&lt; 1000:</td> <td>12.9%</td> <td>% Days =or&lt; 3000:</td> <td>45.2%</td> </tr> </table>																Total Hrs =or< 500:	16.3	Total Hrs =or< 1000:	29.5	Total Hrs =or< 3000:	129.2	Total Days =or< 500:	4	Total Days =or< 1000:	4	Total Days =or< 3000:	14	% Hrs =or< 500:	2.2%	% Hrs =or< 1000:	4.0%	% Hrs =or< 3000:	17.4%	% Days =or< 500:	12.9%	% Days =or< 1000:	12.9%	% Days =or< 3000:	45.2%
Total Hrs =or< 500:	16.3	Total Hrs =or< 1000:	29.5	Total Hrs =or< 3000:	129.2																																		
Total Days =or< 500:	4	Total Days =or< 1000:	4	Total Days =or< 3000:	14																																		
% Hrs =or< 500:	2.2%	% Hrs =or< 1000:	4.0%	% Hrs =or< 3000:	17.4%																																		
% Days =or< 500:	12.9%	% Days =or< 1000:	12.9%	% Days =or< 3000:	45.2%																																		
<table border="1" style="border-collapse: collapse;"> <tr> <td>Total Days</td> <td>31</td> </tr> </table>																Total Days	31																						
Total Days	31																																						

Remarks

00, 06, 12 PRECIP N/A DUE TO HIGH WINDS  
18 PRECIP N/A DUE TO HIGH WINDS 00 30-HR ACCUMMULATION