

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	60	13	-8.7	-13.4	-6.8	-8.9										13	50	1450	19	60	1309	7	100				29.34	989.5	1003	993.7			
15-18Z	70	14	-8.6	-13.6	-8.4	-8.8										17	60	1712	22	60	1723	7	100				29.32	988.8	8007	993.1			
18-21Z	70	12	-7.9	-13.4	-7.7	-8.5										18	60	1838	24	60	1830	8	55				29.33	989.2	6004	993.4			
21-24Z	60	8	-5.7	-13.8	-5.4	-7.8										15	80	2246	19	80	2237	7	55				29.31	988.5	6007	992.7			
12 hr Max/Min				-5.4	-8.9																												
00-03Z	60	7	-5.7	-13.1	-5.3	-6.5										14	40	50	17	40	50	8	35				29.28	987.6	7009	991.8			
03-06Z	60	10	-6.9	-12.4	-5.7	-7.2										11	60	549	14	60	427	8	35				29.26	986.8	6008	991.1			
06-09Z	40	9	-7.2	-10.2	-6.3	-7.5		0.2	0.4							13	40	839	17	40	838	8	30				29.24	986.1	8007	990.3			
09-12Z	90	6	-7.6	-10.0	-6.4	-7.9	1.3	3.0	3.0							12	60	1024	15	60	1028	8	7		1.9	2.5	29.22	985.6	6005	989.9			
12 hr Max/Min				-5.3	-7.9																												

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 (hrs)				
Dir	Spd				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
63	10	-5.3	-8.9	-6.5	00-06L	0.0	0.0	0.0	-18.0	-0.4	11.5	0.0	0.0	0.03	60	18	1838	60	24	1830	8	7	00-06L	0.0	0.0	0.0
					06-12L	0.0	0.0	0.0						Altimeter			Total Obs	Daily Pres	Daily Temp							
					12-18L	0.0	0.0	0.0									8	0.12	3.6							
					18-24L	1.3	3.2	3.4																		

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 of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

02

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
0.3	29.20	984.8	6008	989.1	
	29.19	984.4	6004	988.7	
	29.19	984.4	0000	988.7	
	29.20	984.8	1004	989.0	3.7
	29.19	984.4	6004	988.7	
	29.18	984.1	6003	988.4	
	29.18	984.3	3002	988.5	
	29.18	984.3	4000	988.5	1.3

j (hrs)	
<1000	<3000
0.1	0.3
0.0	0.0
0.0	0.0
0.0	0.0

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03

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.17	983.7	6006	988.1	
	29.16	983.4	6003	987.7	
	29.16	983.4	0000	987.7	
	29.18	984.1	3007	988.5	0.7
	29.19	984.4	1003	988.7	
	29.20	984.8	1004	989.1	
	29.23	985.8	1010	990.1	
	29.25	986.6	2008	990.9	2.3

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

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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	100	13	-11.9	-16.4	-11.4	-12.0				SN	2.2				T	16	100	1232	20	100	1448	7	60			
15-18Z	80	12	-12.8	-16.6	-11.6	-12.8				SN	1.8				T	15	110	1516	19	110	1515	7	55			
18-21Z	110	11	-12.1	-18.7	-12.0	-12.8				SN	1.1				T	13	100	1944	18	100	1927	8	50			
21-24Z	100	11	-11.1	-16.8	-11.0	-12.6									T	16	90	2322	20	100	2109	8	40			
12 hr Max/Min																										
00-03Z	100	14	-10.3	-16.2	-10.3	-11.3										18	90	133	22	90	105	8	40			
03-06Z	100	10	-9.4	-15.9	-9.3	-10.5										16	90	306	19	90	431	8	100			
06-09Z	80	7	-10.2	-18.0	-9.3	-10.2										12	110	603	17	100	829	6	100			
09-12Z	60	10	-10.1	-18.9	-10.1	-10.6										11	60	1143	15	60	1142	6	100			
12 hr Max/Min																										
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	<500	<1000	
93	11	-9.3	-12.8	-10.5	00-06L	0.0	0.0	0.0	-23.0	-9.4	5.1	0.0	0.0	T	90	18	133	90	22	105			7	40	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	8	0.13	3.5					
																29.39	29.26	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.

04

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.26	987.0	0004	991.2	
	29.29	987.6	1006	992.1	
	29.31	988.5	1009	992.9	
	29.33	989.3	1008	993.7	5.2
	29.35	989.8	3005	994.3	
	29.37	990.5	3007	994.9	
	29.39	991.2	2007	995.6	
	29.39	991.2	4000	995.6	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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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					-9.5	-10.1										14	60	1303	18	60	1301						
15-18Z	90	8	-10.4	-16.0	-9.6	-10.6										12	90	1718	16	100	1709	7	100				
18-21Z	90	8	-8.1	-17.0	-8.0	-10.6										14	140	1946	22	120	1946	7	120				
21-24Z	150	17	-7.2	-14.0	-7.0	-8.2										19	150	2341	25	150	2345	7	120				
12 hr Max/Min					-7.0	-10.6																					
00-03Z	90	7	-5.7	-15.8	-5.7	-7.3										19	160	2358	25	150	2357	2					
03-06Z	100	9	-6.2	-15.5	-5.8	-6.4										10	90	550	14	110	431	2					
06-09Z	110	10	-7.4	-12.4	-6.4	-7.9										14	140	816	19	140	815	3					
09-12Z	120	9	-7.4	-13.3	-7.2	-8.0										14	140	1112	18	130	1147	2					
12 hr Max/Min					-5.7	-8.0																					
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						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	
113	10			-5.7	-10.6	-7.3	00-06L	0.0	0.0	0.0	-20.0	-4.0	0.0	0.0	0.0	0.00	150	19	2341	150	25	2345	4	100	00-06L	0.0	
																Altimeter											
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																29.37	29.31	29.34	7	0.06	4.9						

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.

05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.37	990.7	8002	994.9	
	29.37	990.5	5002	994.7	
	29.34	989.7	8008	993.8	0.4
	29.33	989.2	8005	993.4	
	29.32	989.0	8002	993.2	
	29.32	988.8	8002	993.0	
	29.31	988.7	5001	992.9	2.5

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

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Time	Winds		Temp	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			Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z						-7.3	-8.7									12	130	1337	19	140	1336					
15-18Z		5	-7.8	-13.8	-7.3	-8.7										12	60	1505	15	130	1701	1				
18-21Z	150	17	-7.9	-13.2	-7.3	-8.4										17	150	2050	21	150	2049	2				
21-24Z	60	10	-6.3	-13.9	-6.0	-8.0										18	150	2113	21	150	2112	1				
12 hr Max/Min					-6.0	-8.7																				
00-03Z	70	10	-5.2	-15.5	-5.0	-6.7										12	40	124	16	40	123	4				
03-06Z	180	12	-5.4	-12.1	-5.0	-5.7										13	170	549	16	170	548	5	60			
06-09Z	170	17	-7.2	-12.4	-5.2	-7.4										28	190	835	38	190	736	5	60			
09-12Z	160	27	-7.6	-11.9	-6.4	-7.7										32	170	1128	43	170	1128	7	40			
12 hr Max/Min					-5.0	-7.7																				
Avg Wind																										
Dir	Spd																									
147	14				-5.0	-8.7	-6.2																			

06

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.31	988.5	8002	992.7	
	29.30	988.0	8005	992.3	
	29.27	987.3	8007	991.6	2.4
	29.24	986.1	6012	990.4	
	29.21	985.1	6010	989.4	
	29.22	985.6	3005	989.8	
	29.18	984.3	7013	988.9	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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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	180	28	-6.5	-10.5	-6.4	-7.6										34	170	1246	42	180	1448	7	20			
15-18Z	170	26	-6.4	-10.8	-6.2	-6.8										29	180	1542	37	180	1550	7	20			
18-21Z	170	24	-5.7	-11.7	-5.5	-6.5										31	160	2004	37	170	2027	7	70			
21-24Z	170	17	-4.2	-12.4	-4.1	-5.5										30	170	2113	35	170	2113	8	60			
12 hr Max/Min					-4.1	-7.6																				
00-03Z	130	10	-3.8	-11.7	-3.7	-4.3										24	160	26	30	160	118	8	60			
03-06Z	90	10	-5.1	-11.4	-3.4	-5.3										16	60	545	20	60	543	8	60			
06-09Z	100	10	-4.4	-13.6	-3.6	-5.1										17	60	714	24	160	828	8	60			
09-12Z	130	15	-1.8	-14.8	-1.8	-5.1										17	140	1144	26	160	1143	8	100			
12 hr Max/Min					-1.8	-5.3																				
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	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000	
156	18	-1.8	-7.6	-3.7	00-06L	0.0	0.0	0.0	-20.0	-4.0	0.0	0.0	0.0	0.00	170	34	1246	180	42	1448			00-06L	0.0		
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg	8	0.28	5.8						
															29.16	28.88	29.04									

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.

07

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
0.3	29.16	983.6	6007	987.8	
0.5	29.15	983.2	6004	987.5	
	29.09	981.2	8020	985.5	
	29.07	980.4	8008	984.6	6.9
	29.03	979.0	8014	983.1	
	28.98	977.3	6017	981.5	
	28.96	976.8	6005	981.1	
	28.88	974.1	7027	978.2	10.2

j (hrs)	
<1000	<3000
0.0	0.8
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	140	13	-2.4	-13.1	-1.3	-2.5																															
15-18Z	140	12	-2.5	-16.2	-2.0	-2.6																															
18-21Z	60	17	-4.0	-14.7	-2.7	-4.7																															
21-24Z	150	26	-3.2	-10.8	-1.9	-4.5																															
12 hr Max/Min					-1.3	-4.7																															
00-03Z	190	30	-4.9	-6.6	-3.3	-5.7	2.3	2.7	2.8	SN	3.0			BS	2.7			31	180	234	46	150	2	8	1	2.2	2.4										
03-06Z	180	29	-4.1	-6.7	-3.7	-4.9	1.1	1.1	3.0	SN	3.0			BS	3.0	0.02		33	180	347	44	150	347	8	7	1.1	1.1										
06-09Z	170	28	-3.1	-6.8	-2.9	-4.2			3.0	SN	3.0			BS	3.0			36	180	822	43	180	821	7	30												
09-12Z	170	27	-3.9	-6.7	-3.0	-4.2			1.8	SN	1.3			BS	1.8	T		35	170	1020	42	170	1025	7	60												
12 hr Max/Min					-2.9	-5.7																															
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			Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000									
162	23			-1.3	-5.7	-2.8	00-06L	0.0	0.0	0.0	-17.0	1.4	12.2	0.0	10.4	0.02		180	36	822	150	46	2	8	1	00-06L	0.0	0.0									
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff													
																	Max			29.04		28.82		28.90		8		0.22		4.4							

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.

08

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.85	973.2	6009	977.3	
	28.86	973.4	1002	977.4	
	28.82	972.1	8013	976.3	
	28.83	972.4	0003	976.4	8.0
2.4	28.88	974.1	0017	978.1	
2.3	28.95	976.3	2022	980.5	
	28.98	977.3	2010	981.4	
	29.04	979.3	2020	983.4	5.2

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
3.5	4.7
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	170	26	-2.8	-7.1	-2.3	-4.0																										
15-18Z	100	11	-3.1	-8.1	-2.7	-4.5																										
18-21Z	110	9	-2.2	-8.6	-2.1	-3.1																										
21-24Z	150	15	-2.6	-7.4	-1.6	-2.7																										
12 hr Max/Min					-1.6	-4.5																										
00-03Z	150	9	-2.1	-8.4	-2.0	-2.8																										
03-06Z	100	8	-2.5	-8.8	-2.1	-3.6																										
06-09Z	60	6	-2.6	-11.4	-2.3	-4.2																										
09-12Z	60	13	-2.8	-13.7	-2.6	-3.5																										
12 hr Max/Min					-2.0	-4.2																										
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		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
126	12			-1.6	-4.5	-2.6	00-06L	0.0	0.0	0.0	-14.0	6.8	3.8	0.0	0.0	T	170	32	1348	160	41	1158			00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max			29.29		29.10		29.22								
																	29.29			29.10		29.22		8		0.19		2.9				

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.

09

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.10	981.5	2022	985.6	
	29.16	983.6	2021	987.6	
	29.20	984.8	2012	989.0	
	29.22	985.4	2006	989.6	13.0
	29.26	986.8	1014	991.0	
	29.26	987.0	1002	991.2	
	29.29	988.0	2010	992.1	
	29.29	987.8	6002	991.9	8.5

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
12-15Z	100	4	-2.0	-12.2	-1.9	-3.4										14	60	1214	18	70	1214	5	180		
15-18Z	110	8	-4.1	-13.1	-2.1	-4.4										11	160	1616	16	140	1710	5	180		
18-21Z	90	10	-4.1	-13.1	-2.9	-4.8										19	170	2003	23	170	1859	6	100		
21-24Z	150	11	-2.7	-12.7	-1.9	-4.1										15	170	2206	19	180	2205	6	100		
12 hr Max/Min					-1.9	-4.8																			
00-03Z	140	9	-2.4	-12.0	-2.0	-3.0										14	140	203	19	140	212	7	100		
03-06Z	150	17	-3.8	-15.5	-2.5	-3.9										17	150	550	26	150	530	7	60		
06-09Z	140	15	-4.7	-16.5	-3.8	-5.0										18	150	847	27	160	743	7	60		
09-12Z	140	14	-4.4	-19.2	-4.2	-5.3										18	140	857	24	150	920	7	60		
12 hr Max/Min					-2.0	-5.3																			
Avg Wind																									
Dir	Spd																								
133	11				-1.9	-5.3	-3.0																		
						</																			

≥: 10

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.31	988.5	3007	992.7	
	29.33	989.2	2007	993.4	
	29.36	990.2	2010	994.3	
	29.37	990.7	2005	994.9	5.3
	29.39	991.4	1007	995.5	
	29.41	992.0	3006	996.2	
	29.45	993.2	1012	997.5	
	29.46	993.6	0004	997.8	5.8

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		6	-6.5	-19.2	-4.5	-6.7										13	140	1307	19	150	1158	5	120									
15-18Z	110	5	-5.7	-18.8	-5.6	-6.5										11	110	1624	16	110	1533	2										
18-21Z	0	0	-1.7	-16.8	-1.6	-5.6										6	100	1814	8	100	1809	2										
21-24Z	120	6	-5.2	-15.5	-1.1	-5.2										8	100	2344	11	110	2335	2										
12 hr Max/Min					-1.1	-6.7																										
00-03Z	60	9	-4.1	-13.6	-3.0	-4.5										10	60	245	13	60	244	7	60									
03-06Z	90	10	-3.6	-11.2	-3.0	-5.1				SN	1.8				T	10	90	544	14	60	542	7	30									
06-09Z	170	6	-3.0	-13.1	-2.1	-3.1										12	170	658	15	170	657	5	70									
09-12Z	110	6	-3.3	-16.5	-3.1	-4.0										9	90	1131	12	60	1037	1										
12 hr Max/Min					-2.1	-5.1																										
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	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
103	6			-1.1	-6.7	-3.0	00-06L	0.0	0.0	0.0	-15.0	5.0	1.8	0.0	0.0	T	140	13	1307	150	19	1158	4	30	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	8	0.09	5.6										
																	29.58	29.49	29.53													

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)			
<3000	29.49	994.6	0010	998.9	
	29.50	994.9	3003	999.2	
	29.50	994.9	4000	999.1	
	29.52	995.8	3009	1000.0	5.1
	29.53	995.9	0001	1000.3	
	29.53	995.9	0000	1000.3	
	29.57	997.3	3014	1001.5	
	29.58	997.6	1003	1002.0	4.0

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

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.61	998.5	1009	1002.8	
	29.65	999.8	1013	1004.2	
	29.69	1001.2	2014	1005.6	
	29.74	1003.0	2018	1007.3	7.2
	29.76	1003.9	2009	1008.1	
	29.79	1004.6	1007	1008.9	
	29.79	1004.7	0001	1008.9	
	29.79	1004.9	0002	1009.1	7.3

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
12-15Z					-1.1	-6.5									16	90	1445	19	90	1445					
15-18Z	70	14	-7.1	-19.0	-6.6	-8.0									19	90	1533	24	80	1647	5	180			
18-21Z	0	0	-1.8	-11.1	-1.5	-6.9									17	60	1828	21	60	1827	5	180			
21-24Z	0	0	-1.6	-10.8	-0.6	-6.1									9	80	2113	11	80	2113	3				
12 hr Max/Min					-0.6	-8.0																			
00-03Z	0	0	0.7	-9.4	0.7	-6.5									9	90	59	11	90	36	4				
03-06Z	120	4	-1.1	-8.7	0.6	-3.0									5	130	547	9	120	544	7				
06-09Z	100	9	-5.9	-13.1	-1.0	-5.9									10	100	844	12	100	844	7	160			
09-12Z	90	9	-7.4	-10.8	-3.5	-7.6									14	90	1141	17	90	1140	7	160			
12 hr Max/Min					0.7	-7.6																			
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
88	5			0.7	-8.0	-2.2	00-06L	0.0	0.0	0.0	-18.0	-0.4	0.0	0.0	0.0	90	19	1533	80	24	1647	5	160	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						12-18L	0.0
							18-24L	0.0	0.0	0.0						29.75	29.44	29.60	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			18-24L	0.0
																			7	0.31	8.7				

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		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.75	1003.4	6009	1007.8	
	29.72	1002.4	8010	1006.5	
	29.66	1000.5	7019	1004.7	2.5
	29.60	998.3	7022	1002.5	
	29.53	995.9	7024	1000.3	
	29.49	994.6	7013	998.8	
	29.44	992.9	6017	997.2	12.0

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					-7.3	-8.0										17	100	1302	20	90	1240						
15-18Z	90	9	-8.6	-11.1	-8.0	-9.2										15	90	1632	18	90	1627	8	15				
18-21Z	100	11	-7.4	-11.1	-7.1	-8.6				SN	0.9					13	100	2045	18	100	2045	8	15				
21-24Z	90	18	-9.6	-12.7	-7.6	-9.8			2.8	SN	3.0	BR	2.8			T	21	90	2337	27	90	2307	8	25			
12 hr Max/Min					-7.1	-9.8																					
00-03Z	70	18	-11.1	-14.3	-9.3	-11.2	0.7	0.7	3.0	SN	3.0	FG/BR	1.5	BS	2.0		21	70	247	29	70	246	8	20			
03-06Z	70	13	-9.3	-12.9	-9.1	-11.1			2.3	SN	3.0			BS	2.3	T	22	60	349	27	60	348	7	20			
06-09Z	70	16	-11.1	-15.0	-8.8	-11.1				SN	1.2						17	60	835	21	60	850	7	50			
09-12Z	70	16	-11.8	-17.1	-10.8	-11.8				SN	2.7					T	18	60	1128	24	60	1127	7	45			
12 hr Max/Min					-8.8	-11.8																					
Avg Wind		Dir	Spd	Temp	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	Dir			Spd	Time	Time
79	14				-7.1	-11.8	-8.7	00-06L	0.0	0.0	0.0	-22.0	-7.6	13.8	4.3	4.3	T	60	22	349	70	29	246	8	15	00-06L	0.0
								06-12L	0.0	0.0	2.8							Altimeter								06-12L	0.0
								12-18L	0.7	0.7	5.3							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0.0
								18-24L	0.0	0.0	0.0							29.42	29.28	29.33	7	0.14	4.7			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.

14

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
1.3	29.32	988.8	6020	993.1	
2.3	29.28	987.6	7012	991.9	
2.7	29.30	988.3	3007	992.6	12.2
3.0	29.30	988.1	6002	992.4	
2.0	29.34	989.5	3014	993.8	
	29.37	990.7	3012	995.0	
	29.42	992.2	1015	996.5	0.7

j (hrs)	
<1000	<3000
0.0	1.3
0.0	5.0
0.0	5.0
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					-11.0	-11.8										21	60	1258	26	70	1247					
15-18Z	80	11	-11.3	-19.0	-10.2	-11.2				SN	6.0				T	18	90	1539	22	100	1539	7	45			
18-21Z	70	12	-11.4	-18.7	-11.0	-11.5				SN	3.0					16	90	1950	21	100	1931	7	60			
21-24Z	70	17	-10.8	-21.8	-10.7	-11.5				SN	2.3				T	20	60	2310	26	70	2310	6	60			
12 hr Max/Min					-10.2	-11.8																				
00-03Z	70	13	-10.4	-23.0	-10.3	-10.9										21	60	109	25	70	108	6	50			
03-06Z	100	13	-10.3	-22.8	-10.2	-10.8										18	70	431	24	80	335	7	35			
06-09Z	80	12	-11.4	-24.1	-10.4	-11.5				SN	1.3					17	70	805	22	70	720	7	40			
09-12Z	70	12	-10.5	-26.1	-10.4	-11.5				SN	1.3				T	20	60	919	23	60	918	7	37			
12 hr Max/Min					-10.2	-11.5																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	
77	13	-10.2	-11.8	-10.7	-10.7	00-06L	0.0	0.0	0.0	-23.0	-9.4	13.9	0.0	0.0	T	60	21	1258	70	26	1247	7	35	00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	7	0.12	1.6					
																29.59	29.47	29.55								

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)			
<3000					
	29.47	993.9	3007	998.2	
	29.52	995.6	2017	1000.0	
	29.54	996.3	3007	1000.6	8.0
	29.56	997.1	1008	1001.5	
	29.57	997.5	3004	1001.8	
	29.58	997.8	0003	1002.2	
	29.59	998.0	3002	1002.3	5.8

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

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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					-9.5	-10.4										15	80	1327	20	60	1216						
15-18Z	80	14	-10.7	-24.7	-9.2	-11.1				SN	0.8				T	16	80	1749	22	70	1740	8	35				
18-21Z	80	13	-10.6	-21.8	-9.5	-10.7				SN	2.0					18	80	2034	20	70	2029	8	35				
21-24Z	80	11	-10.6	-16.2	-10.5	-10.9				SN/IC	3.0				T	17	80	2324	21	60	2321	8	35				
12 hr Max/Min					-9.2	-11.1																					
00-03Z					-10.5	-12.0				SN/IC	1.0					17	90	236	21	80	23						
03-06Z	100	12	-12.3	-16.9	-11.8	-12.5				0.7 SN/IC	2.7				T	17	90	508	21	90	414	8	40				
06-09Z	100	12	-12.3	-15.7	-12.1	-12.8		2.8	3.0	SN/IC	3.0					15	90	811	18	100	837	8	32				
09-12Z	60	8	-9.7	-13.6	-9.7	-12.2		1.5	2.1	SN/IC	3.0				T	15	90	950	17	90	950	7	32				
12 hr Max/Min					-9.7	-12.8																					
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	Temp	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500		
85	12		-9.2	-12.8	-10.4	00-06L	0.0	0.0	0.0	-23.0	-9.4	15.4	0.0	0.0	T	80	18	2034	70	22	1740	8	32	00-06L	0.0		
																	Altimeter										
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																	29.54	29.33	29.44	6	0.21	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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.54	996.1	8006	1000.5	
	29.52	995.6	8005	1000.0	
	29.48	994.4	7012	998.7	1.9
	29.39	991.4	8015	995.8	
	29.37	990.5	6009	994.9	
	29.33	989.2	8013	993.6	8.8

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

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17

Station	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000					
	29.27	987.1	8013	991.4	
	29.23	985.9	7012	990.3	
	29.19	984.4	7015	988.8	10.0
	29.15	983.1	7013	987.4	
	29.11	981.7	7014	986.0	
	29.06	980.2	7015	984.4	
	29.03	979.2	7010	983.6	10.0

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

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18

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	28.98	977.3	7005	981.6	
	28.97	977.1	6002	981.4	
	28.97	977.0	8001	981.3	7.4
	28.96	976.6	7004	980.9	
	28.96	976.6	5000	981.0	
	28.97	977.0	2004	981.3	
	28.98	977.5	1005	981.7	1.7

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

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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					-10.4	-11.5										7	160	1347	9	160	1346									
15-18Z	0	0	-11.2	-19.4	-10.8	-12.5										4	20	1729	5	10	1728	5	80							
18-21Z	0	0	-8.0	-18.7	-7.7	-11.3										5	10	1820	7	360	1819	7	50							
21-24Z	0	0	-7.3	-18.2	-6.1	-8.3										5	170	2308	6	160	2307	7	50							
12 hr Max/Min					-6.1	-12.5																								
00-03Z	90	3	-6.7	-17.1	-6.1	-7.6										8	170	31	10	150	218	7	50							
03-06Z	60	8	-6.7	-16.7	-6.4	-7.2										9	60	549	11	60	538	7	50							
06-09Z	110	5	-7.9	-13.6	-6.8	-8.8										14	150	732	19	150	718	6	50							
09-12Z	170	16	-10.1	-12.8	-8.1	-10.1	0.8	2.3	2.6	SN	2.6	BR	2.3		0.01	16	160	1049	19	160	1048	8	5		0.4					
12 hr Max/Min					-6.1	-10.1																								
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	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	Time	<1000			
128	5	-6.1	-12.5	-8.2	-8.2	00-06L	0.0	0.0	0.0	-19.0	-2.2	4.6	2.3	0.0	0.01	160	16	1049	150	19	718	7	5	00-06L	0.0	06-12L	0.0			
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
															Max	Min	Avg	7	0.11	6.4										
															29.10	28.99	29.03													

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)			
	28.99	977.8	3004	982.1	
	29.00	978.0	3002	982.3	
	29.01	978.5	2005	982.7	1.5
	29.02	978.8	0003	983.0	
	29.03	979.2	1004	983.4	
	29.06	980.0	3008	984.3	
1.8	29.10	981.5	2015	985.8	4.0

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.4	1.8

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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	60	15	-9.9	-14.2	-8.0	-10.0		0.2	0.3	SN	1.0	BR	0.2					22	170	1317	26	160	1339	7	15				
15-18Z	100	7	-9.1	-13.4	-7.5	-10.0		0.1	0.5	SN	2.0	BR	0.1					13	170	1613	16	160	1621	8	10				
18-21Z	130	10	-9.6	-13.7	-8.9	-9.9		0.5	1.0	SN	1.0	BR	0.5					18	160	1943	23	160	1900	7	10				
21-24Z	70	14	-11.6	-15.6	-9.6	-12.7		0.5	0.9	SN	2.5							17	60	2350	22	110	2322	7	15				
12 hr Max/Min					-7.5	-12.7																							
00-03Z	70	11	-9.9	-15.6	-9.1	-13.1			0.2	SN	0.5							20	60	30	24	60	30	7	30				
03-06Z		3	-7.3	-15.1	-7.2	-9.9												T	13	60	405	16	60	404	2				
06-09Z	100	6	-7.9	-15.6	-7.0	-8.8													7	90	802	8	100	559	4				
09-12Z	0	0	-7.8	-16.4	-6.2	-8.2													6	100	901	9	110	858	5	70			
12 hr Max/Min					-6.2	-13.1																							
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		Dir	Spd	Time	Dir	Spd	Time			Time	<500				
83	8	-6.2	-13.1	-8.5		00-06L	0.0	0.3	0.8	-24.0	-11.2	7.0	0.8	0.0	T	170	22	1317	160	26	1339	6	10	00-06L	0.0				
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
																Max	Min	Avg	8	0.12	6.9								
																29.17	29.05	29.12											

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
0.5	29.12	982.1	0006	986.3	
1.0	29.14	982.9	3008	987.1	
3.0	29.17	983.7	1008	988.1	
2.5	29.16	983.6	0001	988.0	5.1
	29.15	983.1	7005	987.4	
	29.12	982.1	6010	986.3	
	29.08	980.9	8012	985.1	
	29.05	979.7	8012	984.0	1.8

y (hrs)	
<1000	<3000
0.0	1.5
0.0	5.5
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					-7.6	-8.5										6	70	1444	7	80	1450						
15-18Z	20	3	-8.2	-14.6	-8.1	-9.4										7	70	1527	9	70	1522	2	70				
18-21Z	50	9	-7.8	-17.3	-7.0	-8.2										10	60	2049	13	40	2033	3					
21-24Z	70	12	-8.7	-17.9	-7.8	-9.0										14	70	2302	17	80	2349	5	35				
12 hr Max/Min					-7.0	-9.4																					
00-03Z	70	12	-9.1	-18.8	-8.2	-11.3										16	60	201	20	60	200	3	35				
03-06Z	70	12	-8.8	-19.1	-6.9	-10.2										14	80	442	16	60	547	2					
06-09Z	70	11	-10.6	-20.8	-8.2	-11.1										18	60	815	22	70	815	1					
09-12Z	70	8	-9.4	-22.4	-9.3	-10.4										15	70	1047	19	70	1046	1					
12 hr Max/Min					-6.9	-11.3																					
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
65	10			-6.9	-11.3	-8.4	00-06L	0.0	0.0	0.0	-21.0	-5.8	1.0	0.0	0.0	T	60	18	815	70	22	815	2	35	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	
																28.97	28.90	28.93	7	0.07	4.4						

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.

: 21

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000					
	28.97	977.0	6014	981.2	
	28.94	976.1	7009	980.3	
	28.97	976.0	6001	980.2	7.6
	28.92	975.3	8007	979.5	
	28.91	975.1	8002	979.3	
	28.90	974.8	6003	978.9	
	28.90	974.8	0000	979.0	4.9

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

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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					-9.4	-13.3									15	90	1330	16	90	1330												
15-18Z	90	6	-10.6	-22.8	-9.9	-11.1									9	90	1548	11	80	1739	3											
18-21Z	80	8	-10.9	-22.8	-10.2	-11.6									12	90	2000	15	90	2001	3											
21-24Z	50	13	-12.2	-23.5	-10.9	-13.2									16	60	2231	19	60	2350	1											
12 hr Max/Min					-9.4	-13.3																										
00-03Z	110	8	-10.3	-21.9	-10.1	-13.2									15	70	30	20	60	30	7	50										
03-06Z	60	14	-12.3	-20.2	-10.5	-12.5									14	60	550	18	70	547	7	50										
06-09Z					-11.4	-12.6									16	60	630	19	60	819												
09-12Z	90	7	-11.9	-22.9	-10.9	-12.3									13	60	857	17	60	913	7	50										
12 hr Max/Min					-10.1	-13.2																										
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	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000							
74	9	-9.4	-13.3	-10.7	00-06L	0.0	0.0	0.0	-24.0	-11.2	0.0	0.0	0.0	0.00	60	16	2231	60	20	30	5	50	00-06L	0.0	0.0							
																		Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																		29.15	28.94	29.05	6	0.21	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 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					
	28.94	976.0	3005	980.2	
	28.98	977.3	3013	981.6	
	29.03	979.2	1019	983.4	3.2
	29.07	980.4	3012	984.6	
	29.11	981.7	1013	986.0	
	29.15	983.2	3012	987.6	8.4

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		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					-11.2	-12.3									12	90	1442	14	90	1442							
15-18Z	80	10	-12.1	-23.7	-11.0	-12.5									15	140	1640	23	150	1635	8	55					
18-21Z	70	9	-12.7	-21.6	-12.1	-13.0									17	60	2015	22	70	2012	8	55					
21-24Z	70	13	-12.7	-20.1	-11.5	-13.0									16	60	2340	19	60	2349	8	55					
12 hr Max/Min					-11.0	-13.0																					
00-03Z	60	13	-12.4	-21.2	-12.1	-12.7									17	60	234	20	60	232	7	90					
03-06Z	70	15	-12.4	-23.2	-11.8	-12.6				SN	0.5				T	18	70	450	22	60	520	7	90				
06-09Z	70	17	-12.4	-25.4	-12.3	-12.4				SN	0.3					18	60	850	24	60	819	7	45				
09-12Z	60	12	-12.0	-25.8	-11.8	-12.4				SN	1.7				T	19	60	911	23	60	916	7	40				
12 hr Max/Min					-11.8	-12.7																					
Avg Wind		Dir	Spd	Temp	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
68	13			-11.0	-13.0	-11.7	00-06L	0.0	0.0	0.0	-24.0	-11.2	2.4	0.0	0.0	T	60	19	911	60	24	819	7	40	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.

: 23

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.19	984.4	3006	988.7	
	29.21	985.3	2009	989.5	
	29.22	985.4	1001	989.8	6.2
	29.21	985.3	8001	989.7	
	29.18	984.1	6012	988.5	
	29.15	983.2	8009	987.5	
	29.15	983.1	7001	987.4	0.1

y (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					-11.5	-12.2										19	60	1309	23	60	1309					
15-18Z	80	11	-11.9	-26.7	-11.5	-11.9				SN	4.0				T	17	60	1506	19	60	1558	7	40			
18-21Z	60	13	-12.1	-25.9	-11.9	-12.4										15	60	2037	20	60	2018	7	45			
21-24Z	90	12	-14.7	-22.0	-12.0	-14.9				SN	2.8				T	17	100	2334	20	110	2343	7	50			
12 hr Max/Min					-11.5	-14.9																				
00-03Z	70	13	-14.3	-24.6	-14.1	-15.0				SN	3.0					16	70	204	22	60	240	7	50			
03-06Z	80	10	-14.5	-23.1	-14.1	-14.7				SN	3.0				T	14	70	308	21	60	308	7	60			
06-09Z	70	11	-14.3	-22.0	-13.8	-14.9				SN	0.5					18	60	824	20	60	824	7	70			
09-12Z	70	14	-15.6	-24.3	-14.1	-15.7									T	18	60	922	21	60	1148	7	70			
12 hr Max/Min					-13.8	-15.7																				
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		Dir	Spd	Time	Dir	Spd	Time	Time			<500	<1000
74	12	-11.5	-15.7	-12.9		00-06L	0.0	0.0	0.0	-27.0	-16.6	13.3	0.0	0.0	T	60	19	1309	60	23	1309					
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg				7	0.11	4.2		
																29.10	28.99	29.05								

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)			
<3000					
	29.10	981.5	7002	985.9	
	29.09	981.2	8003	985.5	
	29.08	980.9	6003	985.1	4.5
	29.06	980.0	6009	984.3	
	29.04	979.3	6007	983.6	
	29.02	978.8	5005	983.1	
	28.99	977.8	8010	982.2	5.3

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

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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					-15.5	-16.0																					
15-18Z	80	12	-17.4	-25.4	-16.0	-17.6									T	16	80	1718	21	90	1706	7	70				
18-21Z					-17.0	-18.0																					
21-24Z	90	11	-16.7	-26.7	-16.7	-18.1									T	17	70	2349	23	80	2343	8	70				
12 hr Max/Min					-15.5	-18.1																					
00-03Z					-15.8	-16.8																					
03-06Z	90	14	-17.2	-25.3	-15.8	-17.2									T	18	70	301	23	60	337	8	70				
06-09Z					-16.1	-17.4																					
09-12Z	120	12	-17.5	-23.9	-15.3	-17.6									T	14	130	1149	18	130	1149	8	70				
12 hr Max/Min					-15.3	-17.6																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust								
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	Ceiling <500	
95	12			-15.3	-18.1	-16.2	00-06L	0.0	0.0	0.0	-30.0	-22.0	11.8	0.0	0.0	T	70	19	237	90	23	1821	8	70	00-06L	0.0	
																	Altimeter										
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																	28.93	28.82	28.87	4	0.11	2.8					

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.

: 25

s)	Station				24-Hour Pressure
	Alt <3000 (in)	Press (mb)	Press Tend	SLP (mb)	
	28.93	975.6	8015	979.9	
	28.88	973.9	8006	978.4	7.0
	28.83	972.2	6004	976.7	
	28.82	972.1	6001	976.4	5.7

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					-14.9	-17.6									16	100	1442	19	100	1442													
15-18Z	90	18	-17.7	-27.3	-14.9	-17.8									20	90	1739	22	100	1739	7	70											
18-21Z					-16.3	-18.1									20	90	1841	23	100	1840													
21-24Z	90	13	-16.7	-28.2	-15.6	-17.1									19	90	2259	23	100	2238	7	50											
12 hr Max/Min					-14.9	-18.1																											
00-03Z					-14.9	-17.2									19	90	135	23	100	50													
03-06Z	70	12	-12.6	-28.7	-12.3	-15.2									14	60	521	18	90	300	6	100											
06-09Z					-11.8	-16.0									15	80	604	18	80	606													
09-12Z	110	8	-11.8	-22.9	-11.5	-16.3									10	100	1049	12	90	930	1												
12 hr Max/Min					-11.5	-17.2																											
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	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						
88	13			-11.5	-18.1	-13.7	00-06L	0.0	0.0	0.0	-31.0	-23.8	0.0	0.0	0.0	0.00	90	20	1739	100	23	1840	5	50	00-06L	0.0							
																	Altimeter																
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff											
																	29.07	28.86	28.98	4	0.21	6.6											

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.

: 26

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.86	973.2	3007	977.7	
	28.95	976.3	1014	980.7	2.4
	29.02	978.7	0007	983.1	
	29.07	980.4	3003	984.7	8.3

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					-11.2	-12.9									10	90	1438	13	110	1211						
15-18Z	90	8	-13.7	-21.8	-11.4	-13.7									8	100	1647	10	100	1644	1					
18-21Z					-11.0	-14.9									9	90	1923	11	80	1836						
21-24Z	220	4	-7.9	-19.4	-6.7	-11.8									7	90	2250	8	90	2250	1					
12 hr Max/Min					-6.7	-14.9																				
00-03Z					-8.0	-11.3									11	190	12	16	200	11						
03-06Z	40	13	-11.3	-21.3	-7.7	-11.2									13	40	550	17	40	546	2					
06-09Z					-10.3	-12.5									15	40	636	19	40	637						
09-12Z	60	8	-10.2	-17.9	-9.8	-11.9									10	110	1030	12	100	1030	4					
12 hr Max/Min					-7.7	-12.5																				
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	CIG	Time	<500	<1000	
62	8	-6.7	-14.9	-9.4	00-06L	0.0	0.0	0.0	-23.0	-9.4	0.0	0.0	0.0	0.00	40	15	636	40	19	637	2		00-06L	0.0	0.0	
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															29.10	29.09	29.10	4	0.01	8.2						

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.

: 27

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.09	981.0	1005	985.4	
	29.10	981.5	3003	985.8	5.2
	29.10	981.5	7001	985.8	
	29.10	981.5	7001	985.8	1.1

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					-9.2	-11.0										11	60	1230	14	50	1206									
15-18Z	90	9	-12.4	-18.0	-8.6	-12.4									T	9	90	1746	11	90	1735	6	30							
18-21Z					-10.2	-17.4										18	110	2044	20	110	2049									
21-24Z	110	18	-16.6	-22.1	-10.1	-16.9									T	20	110	2334	24	110	2343	7	20							
12 hr Max/Min					-8.6	-17.4																								
00-03Z					-16.3	-17.2										23	100	201	28	90	149									
03-06Z	90	14	-17.7	-21.9	-16.8	-17.7			4.4	SN	6.0	BR	0.3		T	25	90	434	29	100	417	7	25							
06-09Z					-16.9	-17.8										20	60	838	26	60	838									
09-12Z	90	11	-16.2	-19.7	-15.9	-17.6	5.0	5.4	6.0	SN	6.0	BR	6.0		T	18	60	859	22	70	927	8	25							
12 hr Max/Min					-15.9	-17.8																								
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	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			
97	13	-8.6	-17.8	-11.7	00-06L	0.0	0.0	0.0	-32.0	-25.6	20.2	6.3	0.0	T	90	25	434	100	29	417			7	20	00-06L	0.0				
																Altimeter														
																Max			Total Obs Taken			Daily Pres Diff			Daily Temp Diff					
																29.06			4			0.04			9.2					

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.

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.06	980.2	8006	984.5	
0.5	29.04	979.5	0001	983.8	2.0
1.0	29.03	979.0	5003	983.4	
6.0	29.02	978.7	8002	983.0	2.8

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.5
0.0	1.0
0.0	6.0

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Station:
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Monthly Climatology / Page 1

Month:
FEB 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	-5.3	-8.9	-6.5				1.30	1.30				3.17	3.17				3.42	3.42	11.50			11.50	0.03	10	63	18	60	
2	-6.7	-10.5	-8.0						0.08				0.08	0.17				0.17	0.25			0.25	T	11	92	19	100	
3	-10.3	-11.9	-10.8																6.71			6.71	T	16	94	22	90	
4	-9.3	-12.8	-10.5																5.08			5.08	T	11	93	18	90	
5	-5.7	-10.6	-7.3																					10	113	19	150	
6	-5.0	-8.7	-6.2																					14	147	32	170	
7	-1.8	-7.6	-3.7																					18	156	34	170	
8	-1.3	-5.7	-2.8			3.41		3.41			3.79		3.79			5.83	4.75	10.58	12.17		10.42	22.59	0.02	23	162	36	180	
9	-1.6	-4.5	-2.6																3.84			3.84	T	12	126	32	170	
10	-1.9	-5.3	-3.0																					11	133	19	170	
11	-1.1	-6.7	-3.0																1.78			1.78	T	6	103	13	140	
12	-0.3	-7.1	-2.6																					11	18	16	40	
13	0.7	-8.0	-2.2																					5	88	19	90	
14	-7.1	-11.8	-8.7			0.68		0.68			0.68		0.68		2.75	5.25		8.00	13.76	4.25	4.25	22.26	T	14	79	22	60	
15	-10.2	-11.8	-10.7																13.91			13.91	T	13	77	21	60	
16	-9.2	-12.8	-10.4								4.33		4.33			0.67	5.08	5.75	15.42			15.42	T	12	85	18	80	
17	-9.5	-14.5	-11.2																2.33			2.33	T	17	73	22	60	
18	-10.4	-14.9	-11.9																19.75			19.75	T	9	63	19	60	
19	-6.1	-12.5	-8.2				0.80	0.80			2.33		2.33			2.55	2.55	4.55	2.33			6.88	0.01	5	128	16	160	
20	-6.2	-13.1	-8.5						0.27	1.00			1.27	0.75	1.85	0.20		2.80	7.00	0.77		7.77	T	8	83	22	170	
21	-6.9	-11.3	-8.4																1.00			1.00	T	10	65	18	60	
22	-9.4	-13.3	-10.7																					9	74	16	60	
23	-11.0	-13.0	-11.7																2.42			2.42	T	13	68	19	60	
24	-11.5	-15.7	-12.9																13.25			13.25	T	12	74	19	60	
25	-15.3	-18.1	-16.2																11.75			11.75	T	12	95	19	70	
26	-11.5	-18.1	-13.7																					13	88	20	90	
27	-6.7	-14.9	-9.4																					8	62	15	40	
28	-8.6	-17.8	-11.7	0.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	5.42	5.42	0.00	0.00	4.42	6.00	10.42	20.20	6.25	0.00	26.45	T	13	97	25	90	
29																												
30																												
31																												

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	
			00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L													
0.7	-18.1	-8.3	0.0	0.0	4.1	7.1	0.3	1.0	4.5	15.3	0.9	4.6	16.4	21.8	166.7	13.6	14.7	194.9	0.06	95	12	180	36	46			

Temp (C)		Total Hrs =or< 1600:	11.2	Total Hrs =or< 4800:	21.1	Total Hrs < 9999:	43.7
Average		Total Days =or< 1600:	5	Total Days =or< 4800:	8	Total Days < 9999:	8
Max	Min	% Hrs =or< 1600:	1.7%	% Hrs =or< 4800:	3.1%	% Hrs < 9999:	6.5%
-6.76	-11.5	% Days =or< 1600:	17.9%	% Days =or< 4800:	28.6%	% Days < 9999:	28.6%

Total Hrs	sn/sg/ic:	166.7
	fg/br:	13.6
	bs:	14.7
Total Days	sn/sg/ic:	19
	fg/br:	4
	bs:	2



Max Gust
24
24
25
22
25
43
42
46
41
27
19
22
24
29
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23
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26
22
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24
23
23
23
19
29

Station:
NZCM

Monthly Climatology / Page 2

Month:
FEB 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	8	7										1.92	1.92					2.50	2.50	29.34	29.22	29.29	8	0.12	3.6	-18.0	
2	7	7						0.08					0.08	0.25					0.25	29.20	29.18	29.19	8	0.02	3.8	-20.0	
3	7	45																		29.25	29.16	29.19	8	0.09	1.6	-23.0	
4	7	40																		29.39	29.26	29.34	8	0.13	3.5	-23.0	
5	4	100																		29.37	29.31	29.34	7	0.06	4.9	-20.0	
6	4	40																		29.31	29.18	29.25	7	0.13	3.7	-20.0	
7	8	20												0.75					0.75	29.16	28.88	29.04	8	0.28	5.8	-20.0	
8	8	1			3.24			3.24				3.49	3.49					4.74	4.74	29.04	28.82	28.90	8	0.22	4.4	-17.0	
9	5	35																		29.29	29.10	29.22	8	0.19	2.9	-14.0	
10	6	60																		29.46	29.31	29.39	8	0.15	3.4	-14.0	
11	4	30																		29.58	29.49	29.53	8	0.09	5.6	-15.0	
12	1																			29.79	29.61	29.73	8	0.18	6.8	-16.0	
13	5	160																		29.75	29.44	29.60	7	0.31	8.7	-18.0	
14	8	15												1.33	4.97	5.00			11.30	29.42	29.28	29.33	7	0.14	4.7	-22.0	
15	7	35																		29.59	29.47	29.55	7	0.12	1.6	-23.0	
16	8	32																		29.54	29.33	29.44	6	0.21	3.6	-23.0	
17	6	32																		29.27	29.03	29.15	7	0.24	5.0	-26.0	
18	7	40																		28.98	28.96	28.97	7	0.02	4.5	-27.0	
19	7	5										0.38	0.38					1.83	1.83	29.10	28.99	29.03	7	0.11	6.4	-19.0	
20	6	10												1.50	5.50				7.00	29.17	29.05	29.12	8	0.12	6.9	-24.0	
21	2	35																		28.97	28.90	28.93	7	0.07	4.4	-21.0	
22	5	50																		29.15	28.94	29.05	6	0.21	3.9	-24.0	
23	7	40																		29.22	29.15	29.19	7	0.07	2.0	-24.0	
24	7	40																		29.10	28.99	29.05	7	0.11	4.2	-27.0	
25	8	70																		28.93	28.82	28.87	4	0.11	2.8	-30.0	
26	5	50																		29.07	28.86	28.98	4	0.21	6.6	-31.0	
27	2																			29.10	29.09	29.10	4	0.01	8.2	-23.0	
28	7	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.00	6.00	7.50	7.50	29.06	29.02	29.04	4	0.04	9.2	-32.0		
29																								0			
30																								0			
31																								0			

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)															Total Obs Taken	Min Wind Chill				
	< 500					< 1000					< 3000							Altimeter			
	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			Max	Min	Avg	
6	0.0	0.0	3.2	0.0	3.2	0.1	0.0	3.5	2.3	3.8	11.0	10.7	10.3	10.3	29.79	28.82	29.21	193	-32.0		
Total Hrs =or< 500:					3.2	Total Hrs =or< 1000:					5.9	Total Hrs =or< 3000:					35.9	Total Days			28
Total Days =or< 500:					1	Total Days =or< 1000:					4	Total Days =or< 3000:					8				
% Hrs =or< 500:					0.5%	% Hrs =or< 1000:					0.9%	% Hrs =or< 3000:					5.3%				
% Days =or< 500:					3.6%	% Days =or< 1000:					14.3%	% Days =or< 3000:					28.6%				

