

# 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					-8.5	-10.6										22	140	1203	32	80	1426											
15-18Z	110	15	-9.2	-13.0	-8.4	-10.2	4.5	4.5	6.0	SN			4.5			22	130	1723	30	140	1722		7	5		4.5	4.5	29.32	988.8	6005	993.2	
18-21Z	130	3	-10.0	-14.8	-7.2	-9.9			3.0							18	120	1814	24	130	1816		7	25			3.0	29.30	988.3	6005	992.6	
21-24Z	70	13	-7.6	-15.0	-6.8	-10.0										15	80	2323	20	80	2322		7	180				29.30	988.0	7003	992.3	8.5
12 hr Max/Min																																
00-03Z	0	0	-12.2	-17.5	-5.8	-12.2										14	70	27	18	80	26		8	180					29.29	987.8	6002	992.2
03-06Z	90	7	-10.0	-16.5	-10.2	-13.2										9	100	529	11	100	529							29.25	986.6	7012	990.9	
06-09Z	70	18	-14.1	-18.7	-8.5	-14.5				IC		0.9				21	70	849	27	70	848		4					29.25	986.6	4000	991.0	
09-12Z	90	10	-10.5	-18.1	-10.4	-14.1				IC		0.3			T	21	70	908	28	80	928		4					29.31	988.5	2019	992.7	0.5
12 hr Max/Min																																
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		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 <3000							
87 9		-5.8 -14.5		-8.7		00-06L 4.5 4.5 6.0			-26.0 -14.8		5.6 0.0 4.5			0.05	140 22 1203			80 32 1426			6	5	00-06L 0.0 4.5 4.5									
						06-12L 0.0 0.0 3.0									Altimeter			Total Daily Daily					06-12L 0.0 0.0 3.0									
						12-18L 0.0 0.0 0.0									Max Min Avg			Obs Pres Temp					12-18L 0.0 0.0 0.0									
						18-24L 0.0 0.0 0.0									29.32 29.25 29.29			Taken Diff Diff					18-24L 0.0 0.0 0.0									
															7 0.07 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 of entry for Max Wind and Max Gust is changed from conventional. The order is: Spd, Dir, and Time.

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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					-9.1	-11.1										14	80	1208	19	80	1232						
15-18Z	80	14	-12.0	-20.6	-10.1	-12.4									15	90	1749	21	90	1748	8	90					
18-21Z	70	10	-14.9	-21.5	-12.3	-15.3									20	80	1834	23	80	1835	8	90					
21-24Z	70	19	-16.8	-22.2	-10.3	-16.8									19	70	2348	23	70	2345	8	90					
12 hr Max/Min					-9.1	-16.8																					
00-03Z					-16.9	-20.7										23	80	121	30	80	206						
03-06Z	80	17	-21.7	-26.8	-20.7	-22.0									23	70	416	29	70	437	7	110					
06-09Z	80	20	-23.4	-28.4	-21.8	-24.1									25	80	658	34	80	842	7	110					
09-12Z	80	19	-22.9	-29.2	-22.2	-23.9									26	80	859	34	80	859	6	110					
12 hr Max/Min					-16.9	-24.1																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust								
Dir	Spd	Temp	Temp	Temp	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	Ceiling <500
77	17			-9.1	-24.1	-14.1		00-06L	0.0	0.0	0.0	-41.0	-41.8	0.0	0.0	0.0	0.00	80	26	859	80	34	842	7	90	00-06L	0.0
																	Altimeter										
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																	29.33	29.14	29.26	6	0.19	15.0					

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02

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.32	989.0	4000	993.3	
	29.33	989.3	2003	993.7	
	29.32	989.0	7003	993.3	1.0
	29.25	986.5	8018	990.8	
	29.18	984.3	7022	988.7	
	29.14	982.9	7014	987.4	5.6

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

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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					-20.2	-22.1																								
15-18Z	70	5	-19.9	-28.9	-19.1	-20.9																								
18-21Z	0	0	-19.8	-26.1	-19.0	-21.0																								
21-24Z	0	0	-22.0	-27.0	-18.6	-23.0																								
12 hr Max/Min					-18.6	-23.0																								
00-03Z					-17.0	-22.1																								
03-06Z	40	6	-16.8	-21.0	-15.9	-17.9																								
06-09Z	90	5	-17.0	-22.8	-14.5	-18.3																								
09-12Z	60	3	-15.2	-23.4	-14.1	-16.9																								
12 hr Max/Min					-14.1	-22.1																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
64	3	-14.1	-23.0	-17.1	00-06L	0.0	0.0	0.0	-37.0	-34.6	8.5	0.0	0.0	T	70	21	1236	70	26	1236	7	25	00-06L	0.0						
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	6	0.11	8.9									
																29.08	28.97	29.02												

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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.

03

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.08	980.7	6008	985.1	
	29.06	980.2	7005	984.5	
0.8	29.05	979.2	8010	984.3	9.8
3.0	28.99	977.8	6006	982.2	
	28.98	977.5	7003	981.9	
	28.97	977.1	7004	981.6	5.8

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.8
0.0	3.0
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					-14.0	-15.4																					
15-18Z	100	6	-13.1	-21.6	-13.1	-14.9																					
18-21Z	110	12	-12.7	-25.7	-11.2	-13.0																					
21-24Z	130	14	-12.6	-17.7	-11.5	-13.6																					
12 hr Max/Min					-11.2	-15.4																					
00-03Z					-11.9	-13.4																					
03-06Z	130	19	-12.7	-15.9	-11.8	-12.8	4.0	5.5	5.5		BR	3.0	BS	5.5													
06-09Z	100	16	-15.4	-19.4	-12.7	-15.5	3.0	3.0	3.0	SN	1.0	BR	2.0	BS	3.0												
09-12Z	100	14	-14.2	-17.9	-14.2	-15.5	2.3	2.3	2.3	SN	2.3		BS	2.3	T												
12 hr Max/Min					-11.8	-15.5																					
Avg Wind								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			Time	<500	<1000		
114	14				00-06L	0.0	0.0	0.0	-28.0	-18.4	3.3	5.0	10.8	T	150	34	448	150	40	448	7	3	00-06L	0.0	0.0		
															Altimeter												
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															28.93	28.89	28.92	6	0.04	4.3							

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04

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	28.93	975.8	6008	980.1	
	28.92	975.4	6004	979.7	
	28.91	974.9	7005	979.2	4.3
	28.89	974.4	7005	978.8	
1.5	28.93	975.8	2014	980.0	
2.3	28.92	975.4	7004	979.8	1.7

Station	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
3.8	3.8

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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					-12.7	-14.5																				
15-18Z	110	13	-12.1	-16.9	-11.7	-13.6			5.8	SN	1.0			BS	5.8	T	21	110	1433	27	130	1450	8	36		
18-21Z	120	9	-12.5	-16.3	-11.7	-12.7		0.5	3.0	SN	3.0			BS	3.0		16	130	1831	26	140	1830	8	30		
21-24Z	90	11	-11.8	-16.1	-11.7	-12.8		0.4	0.4	SN	3.0			BS	0.4	0.03	15	80	2209	19	80	2202	8	40		
12 hr Max/Min																										
00-03Z					-10.4	-13.9											11	70	114	19	80	114				
03-06Z	90	7	-13.4	-19.1	-12.5	-16.0				SN	1.3					T	11	100	407	13	100	405	6	40		
06-09Z	110	7	-13.7	-19.6	-12.5	-17.7											18	110	632	24	110	632	6	80		
09-12Z	110	9	-13.5	-22.2	-13.4	-18.1										T	17	110	914	21	110	914	8	80		
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	Total	Dir	Spd	Time	Dir	Spd	Time	Time	CIG	Time	<500	
105	9		-10.4	-18.1	-13.0	00-06L	0.0	0.0	5.8	-30.0	-22.0	8.2	0.0	9.1	0.03	110	21	1433	110	29	1501	7	30	00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																28.81	28.74	28.78	6	0.07	7.7					

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05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	28.81	971.6	8018	975.7	
	28.80	971.2	8004	975.5	
	28.76	969.9	6013	974.2	5.0
	28.74	969.2	5004	973.5	
	28.76	970.0	2008	974.2	
	28.81	971.6	1016	975.8	3.8

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

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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					-13.3	-14.5																										
15-18Z	100	13	-13.9	-18.0	-13.3	-14.5				SN	2.3				T	20	140	1604	26	140	1644	8	50									
18-21Z	100	9	-13.2	-16.7	-13.2	-14.3	1.0	1.0	1.0	SN	3.0					15	80	1838	17	80	2009	8	24									
21-24Z	120	16	-15.7	-19.6	-12.8	-15.7	3.0	3.0	3.0	SN	3.0		BS	0.5	0.02	17	130	2330	25	140	2341	8	9			3.0						
12 hr Max/Min					-12.8	-15.7																										
00-03Z					-14.8	-16.7										28	140	104	36	150	104											
03-06Z	130	16	-15.8	-20.2	-14.9	-15.8	4.5	6.0	6.0	SN	6.0		BS	6.0		30	150	543	34	150	552	8	9			4.5						
06-09Z					-15.8	-19.6										28	150	559	37	140	820											
09-12Z	80	16	-22.6	-27.0	-19.1	-22.6	6.0	6.0	6.0	SN	6.0		BS	6.0		21	80	1148	27	100	1150	8	5			1.5						
12 hr Max/Min					-14.8	-22.6																										
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	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
107	14			-12.8	-22.6	-16.1	00-06L	0.0	0.0	0.0	-38.0	-36.4	20.3	0.0	12.5	0.02	150	30	543	140	37	820	8	5	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max			29.27		28.94		29.09								
																	5		0.33		9.8											

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06

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	28.94	976.1	1030	980.4	
2.0	29.01	978.5	3024	982.8	
3.0	29.09	981.0	3025	985.5	11.1
6.0	29.15	983.1	8002	987.4	
6.0	29.27	987.8	3005	992.4	16.2

y (hrs)	
<1000	<3000
0.0	0.0
3.0	5.0
4.5	6.0
1.5	6.0

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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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	
12-15Z					-22.7	-23.9										27	80	1420	34	80	1342					
15-18Z	80	13	-23.9	-29.2	-23.5	-24.5	3.0	3.0	3.5	SN			3.0			26	80	1500	30	80	1502	6	5		3.0	
18-21Z	70	7	-22.0	-28.4	-21.8	-24.0										18	80	1904	25	80	1847	6	85			
21-24Z	80	4	-18.8	-27.0	-18.8	-22.2									0.01	11	70	2103	15	70	2104					
12 hr Max/Min					-18.8	-24.5																				
00-03Z					-17.1	-19.4										12	80	242	16	80	239					
03-06Z	110	6	-19.8	-30.1	-18.9	-21.6										14	70	449	17	70	449	7	80			
06-09Z	110	8	-20.6	-28.3	-19.5	-20.9										11	130	815	16	130	812	7	65			
09-12Z	110	6	-19.9	-26.2	-19.3	-20.1				IC			0.3		T	9	100	1115	13	100	1114	7	65			
12 hr Max/Min					-17.1	-21.6																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	
92	7	-17.1	-24.5	-19.6	-19.6	00-06L	3.0	3.0	3.5	-41.0	-41.8	3.3	0.0	3.5	0.01	80	27	1420	80	34	1342	7	5	00-06L	0.0	
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg	6	0.08	7.4						
															29.21	29.13	29.17									

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)			
3.0	29.21	985.5	8013	990.1	
	29.20	984.8	7007	989.2	
	29.17	983.7	7011	988.2	2.7
	29.13	982.6	4000	987.0	
	29.14	982.9	3003	987.3	
	29.15	983.1	3002	987.6	4.7

Station	
<1000	<3000
3.0	3.0
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					-19.4	-20.5																					
15-18Z	120	8	-19.5	-25.1	-18.8	-19.7			0.7	SN/IC	6.0				T	18	130	1407	26	160	1433	8	30				
18-21Z	90	4	-19.6	-26.5	-19.0	-20.7			1.0	SN/IC	1.0					14	90	2016	18	100	1911	7	48				
21-24Z	90	10	-19.8	-26.9	-18.8	-20.6									T	11	90	2348	15	90	2347	7	65				
12 hr Max/Min					-18.8	-20.7																					
00-03Z					-18.1	-19.7										17	120	139	25	140	139						
03-06Z	130	9	-18.6	-24.0	-17.1	-18.9				SN	1.5				T	14	130	547	18	130	545	7	65				
06-09Z	90	12	-18.2	-25.6	-18.1	-20.1										16	130	746	23	120	626						
09-12Z	110	8	-18.2	-25.0	-17.0	-18.5										14	80	1013	17	80	1013						
12 hr Max/Min					-17.0	-20.1																					
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000	
105	9	-17.0	-20.7	-18.2	-18.2	00-06L	0.0	0.0	0.7	-34.0	-29.2	8.5	0.0	0.0	T	140	20	1536	160	26	1433	7	30	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	6	0.07	3.7						
																29.28	29.21	29.25									

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)			
	29.21	984.9	3013	989.3	
	29.21	985.1	3002	989.6	
	29.24	986.3	3012	990.7	2.6
	29.28	987.5	3001	991.9	
	29.27	987.1	8004	991.7	
	29.28	987.3	3002	991.8	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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## 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					-16.3	-18.3																										
15-18Z	110	9	-14.9	-19.9	-14.9	-16.5											18	130	1316	26	130	1315										
18-21Z	130	13	-15.1	-19.7	-14.0	-15.3											22	140	2020	29	140	1927	8	40								
21-24Z	110	12	-12.0	-21.1	-11.6	-14.8											22	140	2110	32	120	2130	8	75								
12 hr Max/Min					-11.6	-18.3																										
00-03Z					-12.3	-13.0											21	130	222	33	140	216										
03-06Z	120	15	-10.8	-18.1	-10.8	-13.0											16	80	444	21	150	550	8	60								
06-09Z	120	8	-9.3	-20.6	-9.3	-11.4											19	150	630	28	140	606	7	60								
09-12Z	150	21	-8.0	-19.4	-7.5	-9.7											21	140	1115	25	150	1114	8	100								
12 hr Max/Min					-7.5	-13.0																										
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			Time	<500	<1000					
127	13			-7.5	-18.3	-11.1	00-06L	0.0	0.0	0.0	-28.0	-18.4	0.0	0.0	0.0	0.00	140	22	2020	140	33	216	8	40	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	6	0.10	10.8										
																	29.26	29.16	29.23													

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station				24-Hour Pressure
	Alt	Press	Press	SLP	
<3000	(in)	(mb)	Tend	(mb)	
	29.26	987.0	7004	991.3	
	29.26	986.8	7002	991.3	
	29.26	987.0	3002	991.3	0.7
	29.24	986.3	6013	990.6	
	29.22	985.4	8009	989.9	
	29.16	983.4	6020	987.8	3.9

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

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## McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)								
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z					-7.8	-8.8									25	150	1229	30	140	1231												
15-18Z	60	5	-9.0	-21.4	-7.7	-9.8									18	80	1628	22	80	1614	6	120										
18-21Z		3	-12.2	-20.9	-7.2	-13.0									6	150	2023	8	30	1926	7	70										
21-24Z	130	20	-13.9	-20.5	-10.7	-13.9									21	130	2347	38	140	2322	7	90										
12 hr Max/Min					-7.2	-13.9																										
00-03Z					-11.0	-13.1									25	130	34	32	140	157												
03-06Z	140	22	-11.0	-19.8	-10.1	-11.2									28	130	405	36	140	404	8	130										
06-09Z	140	12	-11.1	19.0	-10.8	-11.3									30	140	626	35	140	624	8	75										
09-12Z	150	14	-11.8	-16.5	-11.0	-12.2		1.2	1.2			BS	1.2		26	160	1100	34	150	1036	8	75										
12 hr Max/Min					-10.1	-13.1																										
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					
135	13			-7.2	-13.9	-9.4	00-06L	0.0	0.0	0.0	-26.0	-14.8	0.0	0.0	1.2	0.00	140	30	626	140	38	2322	7	70	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	6	0.05	6.7										
																	29.02	28.97	28.99													

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.

>: 10

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.02	978.7	8034	982.9	
	28.97	977.1	7016	981.4	
	28.97	977.0	6001	981.2	10.0
	28.97	977.1	3006	981.4	
	29.02	978.8	3017	983.1	
	29.01	978.0	5008	982.4	5.4

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

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## 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					-11.5	-12.8																						
15-18Z	100	10	-12.9	-19.9	-12.0	-13.4												32	150	1359	38	150	1358	7	80			
18-21Z	90	11	-12.8	-20.7	-12.0	-12.9												13	80	1916	18	90	2049	7	80			
21-24Z	90	9	-12.8	-23.4	-12.7	-13.3												13	80	2208	18	100	2116	6	120			
12 hr Max/Min					-11.5	-13.4																						
00-03Z					-11.6	-12.7												10	90	102	13	90	101					
03-06Z	70	3	-14.5	-23.1	-10.7	-16.1												4	50	545	9	200	401	6	85			
06-09Z	0	0	-13.4	-22.2	-9.2	-14.3												10	40	833	14	40	804	6	55			
09-12Z	60	3	-8.4	-18.9	-8.4	-15.7				SN	0.6						T	5	180	929	11	190	928	4	55			
12 hr Max/Min					-8.4	-16.1																						
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	
89	6							00-06L	0.0	0.0	0.0	-26.0	-14.8	0.6	0.0	0.0	T	150	32	1359	150	38	1358	6	55	00-06L	0.0	
																		Altimeter										
																		Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																		29.07	28.81	28.96	6	0.26	7.7					

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.

11

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.07	980.5	0019	984.8	
	29.05	979.7	7008	983.9	
	29.01	978.5	7012	982.9	1.5
	28.92	975.6	0001	979.9	
	28.88	974.1	8015	978.4	
	28.81	971.7	8024	976.0	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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## 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					-7.0	-13.0										41	170	1426	54	170	1424					
15-18Z	170	27	-8.5	-11.1	-6.4	-8.5	0.5	0.5	0.5	SN		2.3		BS	0.5		27	170	1750	37	170	1750	8	2	2.3	2.3
18-21Z	180	20	-7.6	-12.1	-6.3	-9.1	0.2	2.3	3.0	SN		3.0		BS	2.3		30	140	1850	37	150	1850	8	2	0.3	0.3
21-24Z	150	26	-8.2	-12.1	-7.5	-8.9	1.3	3.0	3.0	SN		3.0		BS	3.0		44	160	2128	56	170	2306	8	30	1.3	1.3
12 hr Max/Min					-6.3	-13.0																				
00-03Z					-7.7	-8.5										33	150	117	41	140	47					
03-06Z	150	29	-8.1	-11.3	-7.6	-8.3	5.0	6.0	6.0	SN		6.0		BS	6.0		35	170	537	46	170	536	8	30		
06-09Z	160	35	-7.7	-10.4	-6.9	-8.1	0.8	3.0	3.0	SN		3.0		BS	3.0		39	170	843	53	170	842	8	5		0.8
09-12Z	140	19	-7.5	-11.3	-7.4	-8.3	1.0	2.0	2.3	SN		2.3		BS	2.6		37	160	1058	47	170	947	8	5		1.0
12 hr Max/Min					-6.9	-8.5																				
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		
158	26	-6.3	-13.0	-8.5	00-06L	0.5	0.5	0.5	-23.0	-9.4	19.5	0.0	17.4	0.00	160	44	2128	170	56	2306	8	2	00-06L	2.3		
															Altimeter											
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															29.12	28.78	28.93	6	0.34	6.7						

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.

12

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	2.3	28.78	970.5	6006	974.8
	0.3	28.82	972.1	2016	976.2
	1.3	28.90	974.6	3025	978.8
		28.98	977.3	0002	981.6
	0.8	29.00	978.0	0007	981.7
	2.3	29.12	982.2	3042	986.5

Station	
<1000	<3000
2.3	2.3
1.7	1.7
0.0	0.0
1.8	3.1

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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					-7.4	-9.7										25	150	1321	35	150	1321										
15-18Z	150	34	-9.2	-12.1	-9.1	-10.1	3.3	3.3	3.3	SN		5.9			BS	3.3															
18-21Z	130	19	-9.6	-13.4	-9.2	-10.6	2.3	3.0	3.0	SN		3.0			BS	3.0															
21-24Z	150	24	-9.3	-14.4	-8.5	-9.6			3.0	SN		0.9			BS	3.0															
12 hr Max/Min					-7.4	-10.6																									
00-03Z					-7.6	-9.1											31	170	44	39	170	43									
03-06Z	140	22	-8.8	-15.1	-7.9	-9.0			4.7						BS	4.7	T														
06-09Z	90	15	-10.1	-17.0	-7.7	-10.2																									
09-12Z	100	13	-9.6	-18.1	-8.8	-10.8																									
12 hr Max/Min					-7.6	-10.8																									
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						
134	21	-7.4	-10.8	-8.5	00-06L	3.3	3.3	3.3	-24.0	-11.2	9.8	0.0	14.0	T	150	42	1724	150	50	1720	4	70	00-06L	0.0							
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	Max	Min	Avg	6	1.33	3.4									
																	29.50	28.17	29.20												

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

Note 2: Duration should be fractions of an hour.

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

13

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	28.17	983.7	8010	988.0	
	29.30	988.1	3044	992.5	
	29.32	989.0	3009	993.2	14.4
	29.40	991.5	3020	995.8	
	29.49	994.8	1033	999.0	
	29.50	995.1	1003	999.3	12.9

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

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## McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)			
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z					-7.1	-10.0																					
15-18Z	100	7	-8.4	-18.8	-6.9	-9.8																					
18-21Z	70	18	-12.2	-20.2	-8.2	-12.7																					
21-24Z	70	15	-12.3	-19.4	-11.1	-15.1																					
12 hr Max/Min					-6.9	-15.1																					
00-03Z					-12.4	-15.6																					
03-06Z	70	11	-13.2	-20.0	-12.8	-14.3																					
06-09Z	80	3	-13.1	-17.1	-12.6	-16.6				SN	1.8																
09-12Z	70	15	-16.0	-22.1	-12.3	-16.3				SN	3.0																
12 hr Max/Min					-12.3	-16.6																					
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time			Time	<500		
73	12		-6.9	-16.6	-10.1	00-06L	0.0	0.0	0.0	-28.0	-18.4	4.8	0.0	0.0	T	70	20	2127	70	27	2113	3	9	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	6	0.03	9.7						
																29.46	29.43	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.

14

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.46	993.7	8006	997.9	
	29.45	993.2	7005	997.6	
	29.45	993.1	7001	997.5	4.1
	29.44	992.9	6004	997.2	
2.8	29.45	993.2	1003	997.6	
3.0	29.43	992.6	6006	997.0	2.5

Station	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
5.3	5.8

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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					-16.4	-18.9																					
15-18Z	70	13	-16.2	-21.9	-14.9	-18.2				SN	2.0				T	20	70	1521	24	70	1521	8	10				
18-21Z	70	7	-14.5	-19.3	-14.3	-16.5				SN	1.8					15	70	1908	18	70	1908	8	15				
21-24Z	100	5	-15.9	-19.8	-13.5	-16.5				SN	3.0				T	8	70	2129	11	70	2125	8	15				
12 hr Max/Min					-13.5	-18.9																					
00-03Z					-16.1	-17.2										9	100	18	12	100	20						
03-06Z	100	5	-16.8	-20.1	-15.7	-17.0				SN	5.5				T	7	100	357	9	110	348	8	10				
06-09Z	100	8	-17.9	-21.7	-15.6	-18.1										8	100	850	10	100	850	8	10				
09-12Z	70	6	-15.2	-19.8	-15.2	-18.3										11	70	1022	14	70	1047	8	15				
12 hr Max/Min					-15.2	-18.3																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Temp	Time	<500	<1000	
82	7				00-06L	0.0	0.0	0.0	-33.0	-27.4	12.3	0.0	0.0	T	70	21	1407	70	25	1405				00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	6	0.13	5.4						
																29.39	29.26	29.33									

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)			
	6.0	29.39	991.0	8013	995.5
	3.0	29.37	990.3	7007	994.8
	1.5	29.36	990.2	7001	994.5
	3.0	29.29	987.8	7013	992.3
	3.0	29.28	987.3	6005	991.8
	3.0	29.26	986.8	7005	991.2

Station	
<1000	<3000
0.0	6.0
0.0	4.5
0.0	3.0
0.0	6.0

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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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	
12-15Z					-15.0	-20.0										15	110	1450	20	110	1443					
15-18Z	90	17	-23.8	-28.2	-19.9	-23.8	3.3	3.5	3.5	SN			5.3		BS	3.5						8	7		3.0	
18-21Z	90	18	-24.9	-29.7	-23.4	-25.2	3.0	3.0	3.0	SN			3.0		BS	3.0						8	7		1.5	
21-24Z	90	17	-26.0	-31.2	-25.1	-26.0	3.0	3.0	3.0	SN			3.0		BS	3.0						8	12			
12 hr Max/Min																										
00-03Z					-25.9	-26.3											26	80	235	32	80	234				
03-06Z	90	19	-27.3	-32.4	-25.8	-27.3	3.5	6.0	6.0	SN			6.0		BS	6.0						8	8		3.0	
06-09Z	80	14	-26.9	-32.1	-26.7	-27.3	3.0	3.0	3.0	SN			3.0		BS	3.0						8	8		1.5	
09-12Z	100	14	-26.1	-31.2	-25.5	-27.0	3.0	3.0	3.0	SN			3.0		BS	3.0						8	10			
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	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	
90	17		-15.0	-27.3	-19.1	00-06L	3.3	3.5	3.5	-46.0	-50.8	23.3	0.0	21.5	0.00	80	30	532	80	36	532	8	7	00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																29.41	29.29	29.35	6	0.12	12.3					

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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
3.0	29.29	987.8	1008	992.3	
1.5	29.31	988.5	3007	992.9	
3.0	29.33	989.3	3008	993.8	0.9
3.0	29.34	989.5	8001	994.1	
3.0	29.39	991.2	2017	995.7	
3.0	29.41	991.9	2007	996.4	5.1

Station	
<1000	<3000
3.0	3.0
1.5	4.5
3.0	3.0
1.5	6.0

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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	90	5	-24.6	-30.3	-24.5	-26.8	1.5	3.0	3.0	SN	3.0			BS	1.5		16	100	1209	20	100	1209	8	10				
15-18Z	80	12	-25.1	-34.7	-24.5	-25.3	0.5	1.0	2.1	SN	2.1						0.02	14	80	1735	17	80	1740	4	40			
18-21Z	80	6	-23.9	-36.3	-23.9	-25.0												14	80	1839	18	80	1838	4				
21-24Z	0	0	-25.9	-33.5	-23.7	-27.8												7	80	2102	9	70	2102	2				
12 hr Max/Min					-23.7	-27.8																						
00-03Z					-23.7	-29.2												6	30	248	8	30	247					
03-06Z	50	4	-23.6	-34.5	-23.4	-24.9												8	40	535	10	40	534	7	80			
06-09Z		4	-23.4	-30.7	-22.8	-24.5												10	40	846	13	40	645	7	30			
09-12Z	40	4	-22.1	-30.0	-22.0	-25.2												13	40	940	16	40	949	6	30			
12 hr Max/Min					-22.0	-29.2																						
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	Dir			Spd	Time	Time	<500	<1000
73	5			-22.0	-29.2	-24.4	00-06L	2.0	4.0	5.1	-42.0	-43.6	5.1	0.0	1.5	0.02	100	16	1209	100	20	1209	5	10	00-06L	0.0		
							06-12L	0.0	0.0	0.0							Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff			06-12L	0.0		
							12-18L	0.0	0.0	0.0							Max	Min	Avg						12-18L	0.0		
							18-24L	0.0	0.0	0.0							29.51	29.42	29.47	7	0.09	7.2			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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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
1.5	29.42	992.4	1005	997.0	
	29.43	992.6	3002	997.2	
	29.45	993.4	3008	998.0	
	29.48	994.2	1008	998.8	4.9
	29.49	994.6	3003	999.2	
	29.51	995.3	2007	999.8	
	29.50	995.1	8002	999.7	3.2

j (hrs)	
<1000	<3000
0.0	1.5
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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000							
12-15Z	170	4	-22.4	-28.9	-21.6	-23.4			0.6	SN		0.6				12	40	1342	15	40	1345	8	25									
15-18Z	140	20	-26.3	-30.9	-21.6	-26.6	2.5	2.8	3.0	SN		3.0		BS	2.0	22	140	1749	27	150	1748	8	6		1.0							
18-21Z	90	16	-29.8	-35.8	-26.6	-31.1	3.0	3.0	3.0	SN		3.0		BS	3.0	25	140	1804	32	110	1823	8	6		2.7							
21-24Z	100	11	-27.7	-34.5	-27.5	-31.0	2.0	2.2	3.0	SN		3.0		BS	2.3	18	120	2233	24	120	2231	8	20									
12 hr Max/Min					-21.6	-31.1																										
00-03Z	120	15	-25.3	-30.0	-25.0	-27.7	0.5	2.1	3.0	SN		3.0		BS	2.1	22	140	242	29	140	241	8	8		0.5							
03-06Z	100	13	-23.7	-28.8	-23.5	-25.6	2.5	2.5	3.0	SN		2.0		BS	3.0	18	120	518	28	110	430	8	8		2.5							
06-09Z	110	11	-20.3	-25.0	-20.0	-23.6			3.0	SN		0.5		BS	3.0	21	130	818	28	130	817	8	30									
09-12Z	100	11	-19.6	-25.3	-19.5	-20.3			3.0	SN		3.0		BS	3.0	0.01	16	120	945	25	120	944	8	50								
12 hr Max/Min					-19.5	-27.7																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
113	13			-19.5	-31.1	-23.4	00-06L	2.5	2.8	3.6	-52.0	-61.6	18.1	0.0	18.4	0.01	140	25	1804	110	32	1823	8	6	00-06L	0.0						
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																Max			29.79		29.55		29.72									
																			8		0.24		11.6									

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.

18

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
0.6	29.55	996.4	3013	1001.1	
3.0	29.61	998.6	1022	1003.3	
3.0	29.71	1001.9	1033	1006.6	
3.0	29.75	1003.4	1015	1008.0	9.2
3.0	29.79	1004.6	1012	1009.3	
3.0	29.78	1004.6	4000	1009.3	
	29.78	1004.2	7004	1008.9	
	29.76	1003.7	7005	1008.4	8.6

j (hrs)	
<1000	<3000
1.0	3.6
2.7	6.0
3.0	6.0
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	100	10	-17.9	-23.2	-17.8	-20.0			0.5	SN	2.3			BS	0.5		14	100	1434	19	90	1440	6	50							
15-18Z	110	11	-18.7	-25.3	-17.2	-18.8										T	16	130	1649	21	130	1648	7	50							
18-21Z	70	13	-18.4	-24.3	-18.2	-21.4											15	130	1805	19	130	1804	7	160							
21-24Z	70	11	-17.7	-26.5	-17.0	-18.6											16	70	2132	21	70	2129	7	160							
12 hr Max/Min					-17.0	-21.4																									
00-03Z					-16.3	-20.0											12	70	7	14	70	12									
03-06Z	50	4	-17.1	-22.2	-16.9	-19.3											6	60	300	8	40	547	4								
06-09Z	90	3	-18.4	-23.7	-17.4	-21.5											4	30	610	7	40	609	6	32							
09-12Z	100	9	-22.6	-26.8	-18.3	-25.7											11	100	1114	12	100	1112	3								
12 hr Max/Min					-16.3	-25.7																									
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	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	<500	<1000					
86	9		-16.3	-25.7	-19.4	00-06L	0.0	0.0	0.5	-33.0	-27.4	2.3	0.0	0.5	T	130	16	1649	130	21	1648			6	32	00-06L	0.0				
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																29.73	29.41	29.58	7	0.32	9.4										

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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.73	1002.7	8010	1007.3	
	29.72	1002.4	5003	1006.8	
	29.66	1000.5	8019	1005.0	
	29.60	998.3	8022	1002.7	5.1
	29.48	994.4	8018	998.8	
	29.44	992.9	7015	997.4	
	29.41	992.0	7009	996.5	11.7

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

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## McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)							
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000					
12-15Z					-18.0	-24.2										10	100	1157	11	90	1157										
15-18Z	0	0	-22.5	-26.3	-19.3	-24.2										6	70	1501	8	70	1500	1									
18-21Z	0	0	-23.0	-27.2	-21.9	-27.3										4	50	1836	5	50	1835	6	180								
21-24Z	0	0	-22.4	-27.2	-19.2	-25.8										5	100	2150	5	90	2158	3									
12 hr Max/Min					-18.0	-27.3																									
00-03Z					-19.3	-24.8										2	50	248	3	50	247										
03-06Z	70	4	-21.4	-25.7	-18.7	-25.5										10	100	507	13	100	506	4									
06-09Z	0	0	-19.7	-26.7	-19.3	-22.1										4	140	835	5	110	839	6	120								
09-12Z	130	8	-19.6	-31.1	-16.8	-25.4										10	140	1118	14	150	1118	4									
12 hr Max/Min					-16.8	-25.5																									
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	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				
111	2	-16.8	-27.3	-20.3	-20.3	00-06L	0.0	0.0	0.0	-38.0	-36.4	0.0	0.0	0.0	0.00	100	10	1157	150	14	1118	4	120	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	Max	Min	Avg	6	0.05	10.5									
																	29.36	29.31	29.33												

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					
	29.36	990.0	8007	994.5	
	29.34	989.5	6005	994.0	
	29.33	989.2	7003	993.6	9.1
	29.31	988.5	3001	992.9	
	29.33	989.2	3007	993.7	
	29.33	989.0	7002	993.5	3.0

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					-17.2	-19.5									14	100	1402	21	130	1413										
15-18Z	90	11	-20.1	-29.4	-16.3	-20.1									19	120	1726	26	130	1728	8	110								
18-21Z	100	15	-16.9	-27.3	-16.8	-19.7									25	70	1838	35	80	1837										
21-24Z	120	15	-18.0	-27.3	-16.8	-18.3									19	110	2345	29	140	2311										
12 hr Max/Min					-16.3	-20.1																								
00-03Z					-16.8	-18.5									22	130	39	32	140	39										
03-06Z	70	17	-17.5	-29.7	-16.7	-18.1									19	70	545	23	80	527	6	140								
06-09Z	110	4	-14.3	-28.8	-14.1	-18.1									22	70	557	27	70	557	4									
09-12Z	100	5	-18.8	-28.9	-14.5	-20.0									5	100	1150	7	100	1149	4									
12 hr Max/Min					-14.1	-20.0																								
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	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	11				00-06L	0.0	0.0	0.0	-37.0	-34.6	0.0	0.0	0.0	0.00	70	25	1838	80	35	1837	6	110	00-06L	0.0	0.0					
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															Max	Min	Avg	6	0.31	6.0										
															29.33	29.02	29.17													

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					
	29.33	989.2	0004	993.5	
	29.28	987.6	6016	992.1	
	29.24	986.1	5015	990.6	3.1
	29.09	981.2	8038	985.7	
	29.05	979.7	7015	983.9	
	29.02	978.7	7010	983.0	10.3

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)					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					-15.6	-19.0																					
15-18Z	0	0	-17.7	-25.9	-14.6	-17.9																					
18-21Z	0	0	-12.8	-22.9	-12.6	-17.0																					
21-24Z	50	7	-10.4	-14.8	-10.4	-13.5		1.3	2.1	SN		2.1					0.01	9	100	1416	12	100	1410	8	70		
12 hr Max/Min					-10.4	-19.0																					
00-03Z					-9.3	-10.7												15	140	249	26	130	1				
03-06Z	120	13	-18.9	-22.8	-9.9	-19.2	1.8	6.0	6.0	SN		6.0		BS	1.2	0.01	20	140	428	27	130	428	8	8		0.3	
06-09Z	80	19	-22.4	-27.1	-19.1	-22.8	3.0	3.0	3.0	SN		3.0		BS	3.0		20	80	850	27	80	746	8	8		3.0	
09-12Z	110	12	-17.1	-22.7	-17.0	-22.6	1.8	2.3	2.8	SN		2.1		BS	2.1	T	24	80	901	26	80	900	7	60		2.0	
12 hr Max/Min					-9.3	-22.8																					
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	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500		
93	9		-9.3	-22.8	-13.8	00-06L	0.0	0.0	0.0	-39.0	-38.2	13.2	0.0	6.3	0.02	80	24	901	130	27	428	8	8	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																29.12	28.81	28.96	6	0.31	13.5						

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

Note 2: Duration should be fractions of an hour.

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

: 22

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	28.92	975.4	8022	979.8	
	28.85	973.1	8023	977.4	
1.3	28.81	971.7	8014	976.1	14.4
6.0	28.97	977.1	3057	981.5	
3.0	29.09	981.2	3041	985.6	
2.0	29.12	982.1	3009	986.4	3.4

y (hrs)	
<1000	<3000
0.0	0.0
0.0	1.3
0.3	6.0
5.0	5.0

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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					-12.9	-16.9																				
15-18Z	60	3	-15.9	-22.1	-13.3	-19.6																				
18-21Z		4	-11.3	-18.7	-10.7	-16.4																				
21-24Z	140	12	-9.1	-13.3	-7.8	-13.6																				
12 hr Max/Min					-7.8	-19.6																				
00-03Z					-6.4	-10.6																				
03-06Z	100	14	-11.8	-19.1	-10.3	-12.1	0.8	2.0	5.0				BS	5.0												
06-09Z	100	16	-14.4	-21.5	-11.5	-14.9							BS	3.0												
09-12Z	80	12	-13.9	-22.6	-13.3	-14.8							BS	2.3												
12 hr Max/Min					-6.4	-14.9																				
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	<500			<1000	
102	10		-6.4	-19.6	-10.8	00-06L	0.0	0.0	0.0	-29.0	-20.2	1.9	0.0	10.3	T	130	26	441	140	35	441	6	47	00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg				6	0.07	13.2	12-18L	0.0
																29.05	28.98	29.01			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				24-Hour Pressure
	Alt	Press	Press	SLP	
<3000	(in)	(mb)	Tend	(mb)	
	29.05	979.9	6018	984.2	
	29.01	978.3	6016	982.8	
	28.98	977.5	8008	981.9	5.8
	29.04	979.5	0014	983.9	
	28.98	977.3	7022	981.7	
	28.99	977.7	3004	981.9	4.4

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

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## McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpr Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)					
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000			
12-15Z					-12.9	-14.1									17	80	1448	20	80	1448									
15-18Z	80	19	-14.9	-22.4	-13.3	-15.1									19	80	1746	25	80	1736	2								
18-21Z	80	15	-13.2	-23.0	-13.0	-15.7									21	80	1948	25	80	1957	1								
21-24Z	130	14	-15.2	-24.3	-13.0	-16.4									20	140	2336	26	140	2334	6	70							
12 hr Max/Min					-12.9	-16.4																							
00-03Z					-14.9	-16.4									27	140	221	33	140	220									
03-06Z	90	8	-16.3	-25.7	-15.7	-17.1									21	140	304	26	140	301	6	65							
06-09Z	120	12	-18.2	-27.3	-16.3	-19.3									17	90	838	25	110	839	5	90							
09-12Z	130	12	-17.2	-27.3	-17.2	-18.9									21	130	1049	28	130	1117	3								
12 hr Max/Min					-14.9	-19.3																							
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	Pcpr Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000				
103	13	-12.9	-19.3	-15.0	00-06L	0.0	0.0	0.0	-34.0	-29.2	0.0	0.0	0.0	0.00	140	27	221	140	33	220	4	65	00-06L	0.0	0.0				
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
															29.27	28.99	29.14	6	0.28	6.4									

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.

24

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	28.99	977.7	3003	982.0	
	29.04	979.3	3016	983.7	
	29.10	981.5	2022	985.9	4.0
	29.21	985.1	1023	989.5	
	29.25	986.5	2014	990.7	
	29.27	987.1	2006	991.6	9.4

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

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## 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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000							
12-15Z					-16.9	-18.3																										
15-18Z	150	27	-16.1	-21.1	-15.9	-17.4	0.3	0.8	0.8					BS	0.8		26	150	1750	34	140	1750	8	30								
18-21Z					-16.0	-20.1	2.5	3.0	3.0	SN			2.2		BS	3.0		38	150	1923	45	150	1922	8	2	0.5	2.5					
21-24Z	130	22	-19.3	-23.7	-18.9	-19.5	3.0	3.0	3.0	SN			3.0		BS	3.0		27	130	2329	36	140	2301	8	5	0.8	2.3					
12 hr Max/Min																																
00-03Z					-18.7	-19.3											26	130	31	38	140	17										
03-06Z	90	7	-18.2	-22.2	-18.0	-18.9	6.0	6.0	6.0	SN			6.0	FG	1.8	BS	4.3	0.02	23	130	325	28	130	325	8	8	0.8					
06-09Z	80	13	-19.3	-23.9	-18.1	-20.1	3.0	3.0	3.0	SN			3.0	FG	3.0				17	80	720	20	90	810	8	8	3.0					
09-12Z	100	11	-19.2	-24.4	-19.0	-19.3	0.9	1.5	3.0	SN			1.5	FG	0.9	BS	1.5	T	17	80	1108	21	80	1107	8	8	1.5					
12 hr Max/Min																																
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				
121	16			-15.9	-20.1	-17.3	00-06L	0.3	0.8	0.8	-38.0	-36.4	15.7	5.7	12.5	0.02		150	38	1923	150	45	1922	8	2	00-06L	0.0					
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	5	0.22	4.2										
																	29.48	29.26	29.41													

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				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.26	986.8	8006	991.3	
2.5					
2.3	29.44	992.9	3028	997.3	11.4
0.8	29.48	994.4	0010	998.8	
3.0	29.47	993.9	7005	998.4	
2.0	29.41	991.9	7020	996.4	4.8

y (hrs)	
<1000	<3000
0.0	0.0
4.8	4.8
0.8	0.8
4.5	5.0

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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					-19.2	-21.2										15	90	1201	19	90	1158						
15-18Z	70	14	-20.3	-28.2	-20.1	-21.0			1.0				BS	1.0		15	70	1710	17	80	1732	2					
18-21Z	70	10	-19.2	-26.9	-18.8	-20.6				SN	0.6					16	70	1959	19	70	1811	6	24				
21-24Z	100	8	-22.3	-29.2	-18.4	-22.5				SN	1.0				T	10	70	2058	12	70	2115	3	24				
12 hr Max/Min					-18.4	-22.5																					
00-03Z					-19.4	-22.4										12	110	250	15	80	130						
03-06Z	100	7	-21.7	-29.2	-20.5	-25.0										13	100	411	16	100	403	4					
06-09Z	0	0	-21.3	-27.3	-20.2	-23.0										7	100	611	8	100	610	4					
09-12Z	80	3	-22.1	-28.3	-20.6	-22.4										3	80	1150	4	80	1146	5	24				
12 hr Max/Min					-19.4	-25.0																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		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			Time	<500			
81	7	-18.4	-25.0	-20.6	00-06L	0.0	0.0	1.0	-38.0	-36.4	1.6	0.0	1.0	T	70	16	1959	90	19	1158	4	24	00-06L	0.0			
															Altimeter												
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															29.31	29.18	29.22	6	0.13	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					
	29.31	988.3	8022	992.8	
1.6	29.25	986.6	8017	991.1	
1.0	29.22	985.4	7012	989.9	7.5
	29.18	984.1	8003	988.6	
	29.18	983.9	6002	988.4	
0.5	29.18	984.3	3004	988.8	7.6

y (hrs)	
<1000	<3000
0.0	0.0
0.0	2.6
0.0	0.0
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					-22.6	-27.1									11	100	1416	12	100	1418							
15-18Z	100	10	-21.8	-27.0	-21.3	-23.4									12	110	1750	16	110	1750	7	70					
18-21Z	0	0	-20.5	-25.7	-20.1	-22.0									13	110	1759	16	110	1758	2	70					
21-24Z	0	0	-20.7	-26.8	-18.5	-23.0									4	140	2058	4	230	2317	2						
12 hr Max/Min					-18.5	-27.1																					
00-03Z	0	0	-22.7	-29.0	-18.0	-25.1									5	160	137	6	160	137	2						
03-06Z	0	0	-20.8	-26.8	-19.1	-23.9									3	50	545	4	50	545	2						
06-09Z	0	0	-23.6	-30.3	-19.3	-25.7									4	40	830	5	20	838	2						
09-12Z	30	8	-19.4	-24.2	-18.6	-25.5									10	30	924	13	30	946	1						
12 hr Max/Min					-18.0	-25.7																					
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	Time	Time	Time	<500	<1000		
69	3	-18.0	-27.1	-21.0	00-06L	0.0	0.0	0.0	-40.0	-40.0	0.0	0.0	0.0	0.00	110	13	1759	110	16	1750	3	70	00-06L	0.0			
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															Max	Min	Avg	7	0.08	9.1							
															29.25	29.17	29.22										

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				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000					
	29.22	985.4	1007	989.9	
	29.24	986.3	1009	990.7	
	29.25	986.5	1002	990.9	1.1
	29.25	986.6	1001	991.1	
	29.23	985.8	7008	990.2	
	29.21	985.1	7007	989.5	
	29.17	983.7	7014	988.2	0.6

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

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## McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	0	0	-22.4	-26.3	-19.2	-23.5										8	30	1158	9	30	1203	1								
15-18Z	0	0	-21.9	-26.8	-21.4	-22.4										4	20	1528	4	20	1550	2								
18-21Z	0	0	-21.5	-26.3	-21.5	-22.1										3	70	1908	4	70	1906	2								
21-24Z	50	3	-17.9	-23.6	-16.6	-21.5										4	40	2347	5	40	2346	2								
12 hr Max/Min																														
00-03Z					-15.5	-20.0										5	30	237	7	30	204									
03-06Z	0	0	-20.2	-24.7	-14.6	-20.5										4	190	525	5	20	542	7	60							
06-09Z	50	5	-17.3	-21.6	-17.0	-21.0										6	40	617	8	40	616	7	50							
09-12Z	0	0	-18.9	-22.8	-15.6	-19.5										7	40	913	9	40	911	7	50							
12 hr Max/Min																														
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	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			
50	1		-14.6	-23.5	-17.6		00-06L	0.0	0.0	0.0			-33.0	-27.4	0.0	0.0	0.00	30	8	1158	30	9	1203	4	50	00-06L	0.0			
																		Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																		Max	Min	Avg	7	0.05	8.9							
																		29.20	29.15	29.17										

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

Note 2: Duration should be fractions of an hour.

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

: 28

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.15	983.2	7005	987.7	
	29.15	983.1	6001	987.5	
	29.16	983.6	3005	988.1	
	29.18	984.1	3005	988.4	2.4
	29.19	984.4	3005	988.8	
	29.20	984.9	2005	989.3	
	29.19	984.4	7005	988.9	0.7

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	-16.9																									
15-18Z	40	13	-14.1	-20.3	-13.9	-15.1																									
18-21Z	50	11	-10.9	-23.1	-10.9	-14.1																									
21-24Z	350	15	-9.5	-16.1	-9.4	-12.7																									
12 hr Max/Min					-9.4	-16.9																									
00-03Z					-9.1	-11.3																									
03-06Z	30	15	-13.0	-18.2	-11.0	-13.0			1.0	SN	1.3	BR	1.0																		
06-09Z	350	14	-14.9	-20.5	-13.0	-14.9			3.0	SN	2.0	BR	3.0																		
09-12Z	340	10	-15.1	-20.8	-14.9	-15.2			0.3	SN	0.3	BR	0.3																		
12 hr Max/Min					-9.1	-15.2																									
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000						
13	13	-9.1	-16.9	-11.7	00-06L	0.0	0.0	0.0	-28.0	-18.4	5.0	4.3	0.0	T	40	20	2	340	24	208	8	30	00-06L	0.0	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																	Max			29.36		28.99		29.15							
																				6		0.37		7.8							

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

Note 2: Duration should be fractions of an hour.

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

: 29

s)	Station				24-Hour Pressure
	Alt	Press	Press	SLP	
<3000	(in)	(mb)	Tend	(mb)	
	29.09	981.0	8025	985.4	
	29.03	979.2	6018	983.5	
	28.99	977.7	6015	981.9	6.4
	29.14	982.7	1038	987.1	
	29.26	987.0	2043	991.4	
	29.36	990.2	3032	994.5	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					-15.0	-15.8										11	30	1200	16	30	1159																	
15-18Z	340	5	-16.1	-20.5	-15.6	-16.2										8	360	1557	12	340	1510	6	37															
18-21Z	330	3	-17.4	-21.6	-16.1	-18.5										9	350	1907	11	350	1907	2	37															
21-24Z	350	12	-16.1	-20.7	-15.7	-17.8										12		2348	16		2345	2																
12 hr Max/Min					-15.0	-18.5																																
00-03Z					-15.1	-16.5										11	350	12	16	350	20																	
03-06Z	350	9	-15.1	-20.2	-14.5	-15.1										12	350	548	16	350	548	4																
06-09Z	330	5	-15.3	-19.3	-14.9	-15.4										11	350	630	17	350	648	7	120															
09-12Z	0	0	-17.9	-21.8	-14.9	-18.1										10	330	946	16	320	944	6	120															
12 hr Max/Min					-14.5	-18.1																																
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	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500									
344	6			-14.5	-18.5	-15.8				00-06L	0.0	0.0	0.0	-30.0	-22.0	0.0	0.0	0.0	0.00	0	12	2348	350		17	648	5	37	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			Total Obs Taken		Daily Pres Diff		Daily Temp Diff		12-18L	0.0				
										18-24L	0.0	0.0	0.0											29.43			29.18		29.32		6		0.25		4.0		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.

30

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.43	992.6	3005	996.8	
	29.42	992.2	8004	996.7	
	29.37	990.3	8019	994.8	12.6
	29.27	987.3	6021	991.6	
	29.23	985.8	7015	990.2	
	29.18	984.3	7015	988.7	5.9

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

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### Monthly Climatology / Page 1

Month:  
SEP 2014

Date	Temp (C)			Visibility (hrs)												WX and Duration				Pcprn 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	-5.8	-14.5	-8.7	4.50				4.50	4.50				4.50	6.00	3.00			9.00	5.60		4.50	10.10	0.05	9	87	22	140	
2	-9.1	-24.1	-14.1																					17	77	26	80	
3	-14.1	-23.0	-17.1																8.47			8.47	T	3	64	21	70	
4	-11.2	-15.5	-12.6			4.00	5.30	9.30			5.50	5.30	10.80			5.50	5.30	10.80	3.33	5.00	10.83	19.16	T	14	114	34	150	
5	-10.4	-18.1	-13.0							0.85			0.85	5.75	3.35			9.10	8.23		9.10	17.33	0.03	9	105	21	110	
6	-12.8	-22.6	-16.1		4.00	4.50	6.00	14.50		4.00	6.00	6.00	16.00		4.00	6.00	6.00	16.00	20.30		12.50	32.80	0.02	14	107	30	150	
7	-17.1	-24.5	-19.6	3.00				3.00	3.00				3.00	3.50				3.50	3.33		3.50	6.83	0.01	7	92	27	80	
8	-17.0	-20.7	-18.2											0.67	1.00			1.67	8.50			8.50	T	9	105	20	140	
9	-7.5	-18.3	-11.1																				13	127	22	140		
10	-7.2	-13.9	-9.4									1.15	1.15				1.15	1.15			1.15	1.15		13	135	30	140	
11	-8.4	-16.1	-11.0															0.58			0.58	T	6	89	32	150		
12	-6.3	-13.0	-8.5	0.50	1.50	5.00	1.80	8.80	0.50	5.34	6.00	5.00	16.84	0.50	6.00	6.00	5.25	17.75	19.50		17.37	36.87	0.00	26	158	44	160	
13	-7.4	-10.8	-8.5	3.33	2.30			5.63	3.33	3.00			6.33	3.33	6.00	4.70		14.03	9.84		14.03	23.87	T	21	134	42	150	
14	-6.9	-16.6	-10.1															4.75			4.75	T	12	73	20	70		
15	-13.5	-18.9	-15.3															12.33			12.33	T	7	82	21	70		
16	-15.0	-27.3	-19.1	3.33	6.00	3.50	6.00	18.83	3.50	6.00	6.00	6.00	21.50	3.50	6.00	6.00	6.00	21.50	23.25		21.50	44.75	0.00	17	90	30	80	
17	-22.0	-29.2	-24.4	2.00				2.00	4.00				4.00	5.10				5.10	5.08		1.50	6.58	0.02	5	73	16	100	
18	-19.5	-31.1	-23.4	2.50	5.00	3.00		10.50	2.80	5.20	4.58		12.58	3.58	6.00	6.00	6.00	21.58	18.08		18.36	36.44	0.01	13	113	25	140	
19	-16.3	-25.7	-19.4															0.00	2.25		0.50	2.75	T	9	86	16	130	
20	-16.8	-27.3	-20.3																					2	111	10	100	
21	-14.1	-20.1	-16.1																					11	96	25	70	
22	-9.3	-22.8	-13.8			1.83	4.75	6.58		1.25	6.00	5.33	12.58		2.08	6.00	5.75	13.83	13.16		6.25	19.41	0.02	9	93	24	80	
23	-6.4	-19.6	-10.8			0.75		0.75			2.00		2.00		1.90	5.00	5.25	12.15	1.90		10.25	12.15	T	10	102	26	130	
24	-12.9	-19.3	-15.0																					13	103	27	140	
25	-15.9	-20.1	-17.3	0.25	5.50	6.00	3.91	15.66	0.75	6.00	6.00	4.50	17.25	0.75	6.00	6.00	6.00	18.75	15.67	5.67	12.50	33.84	0.02	16	121	38	150	
26	-18.4	-25.0	-20.6											1.00				1.00	1.62		0.96	2.58	T	7	81	16	70	
27	-18.0	-27.1	-21.0																					3	69	13	110	
28	-14.6	-23.5	-17.6																					1	50	8	30	
29	-9.1	-16.9	-11.7													1.00	3.25	4.25	5.00	4.25		9.25	T	13	13	20	40	
30	-14.5	-18.5	-15.8																					6	344	12	0	
31																												

### Monthly Statistics

Temp (C)			Visibility (hrs)												WX and Duration				Pcprn Total	Avg Wind		Max Wind		Max Gust
Max	Min	Avg	< 1600				< 4800				< 9999				sn/sg/ic	fg/br	bs	Total		Dir	Spd	Dir	Spd	
-5.8	-31.1	-15.3	19.4	24.3	28.6	27.8	22.4	31.6	42.1	33.3	33.7	45.3	52.2	50.0	190.8	14.9	144.8	350.5	0.18	103	10	160	44	56

Temp (C)		Total Hrs =or< 1600:	Total Hrs =or< 4800:	Total Hrs < 9999:
Average		100.1	129.4	181.2
Max	Min	Total Days =or< 1600:	Total Days =or< 4800:	Total Days < 9999:
-12.6	-20.8	12	14	17
		% Hrs =or< 1600:	% Hrs =or< 4800:	% Hrs < 9999:
		13.9%	18.0%	25.2%
		% Days =or< 1600:	% Days =or< 4800:	% Days < 9999:
		40.0%	46.7%	56.7%

Total Hrs	sn/sg/ic:
190.8	190.8
fg/br:	14.9
bs:	144.8
Total Days	sn/sg/ic:
21	21
fg/br:	3
bs:	16

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

Max Gust
32
34
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40
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37
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38
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Station:  
NZCM

### Monthly Climatology / Page 2

Month:  
SEP 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	6	5						4.50						4.50	4.50	3.00				7.50	29.32	29.25	29.29	7	0.07	8.7	-26.0
2	7	90																			29.33	29.14	29.26	6	0.19	15.0	-41.0
3	7	25														0.80	3.00			3.80	29.08	28.97	29.02	6	0.11	8.9	-37.0
4	7	3					2.30	2.30					3.80	3.80					3.80	3.80	28.93	28.89	28.92	6	0.04	4.3	-28.0
5	7	30																			28.81	28.74	28.78	6	0.07	7.7	-30.0
6	8	5								3.00	4.50	1.50	9.00		5.00	6.00	6.00	17.00	17.00	29.27	28.94	29.09	5	0.33	9.8	-38.0	
7	7	5							3.00				3.00	3.00					3.00	3.00	29.21	29.13	29.17	6	0.08	7.4	-41.0
8	7	30																			29.28	29.21	29.25	6	0.07	3.7	-34.0
9	8	40																			29.26	29.16	29.23	6	0.10	10.8	-28.0
10	7	70																			29.02	28.97	28.99	6	0.05	6.7	-26.0
11	6	55																			29.07	28.81	28.96	6	0.26	7.7	-26.0
12	8	2	2.30	1.67				3.97	2.30	1.67		1.80	5.77	2.30	1.67		3.10	7.07	7.07	29.12	28.78	28.93	6	0.34	6.7	-23.0	
13	4	70																			29.50	28.17	29.20	6	1.33	3.4	-24.0
14	3	9										5.25	5.25				5.80	5.80	5.80	29.46	29.43	29.45	6	0.03	9.7	-28.0	
15	8	10												6.00	4.50	3.00	6.00	19.50	19.50	29.39	29.26	29.33	6	0.13	5.4	-33.0	
16	8	7							3.00	1.50	3.00	1.50	9.00	3.00	4.50	3.00	6.00	16.50	16.50	29.41	29.29	29.35	6	0.12	12.3	-46.0	
17	5	10												1.50				1.50	1.50	29.51	29.42	29.47	7	0.09	7.2	-42.0	
18	8	6							0.96	2.70	3.00		6.66	3.58	6.00	6.00			15.58	29.79	29.55	29.72	8	0.24	11.6	-52.0	
19	6	32																			29.73	29.41	29.58	7	0.32	9.4	-33.0
20	4	120																			29.36	29.31	29.33	6	0.05	10.5	-38.0
21	6	110																			29.33	29.02	29.17	6	0.31	6.0	-37.0
22	8	8										0.25	5.00	5.25		1.30	6.00	5.00	12.30	29.12	28.81	28.96	6	0.31	13.5	-39.0	
23	6	47																			29.05	28.98	29.01	6	0.07	13.2	-29.0
24	4	65																			29.27	28.99	29.14	6	0.28	6.4	-34.0
25	8	2		1.25				1.25			4.83	0.75	4.50	10.08		4.83	0.75	5.00	10.58	29.48	29.26	29.41	5	0.22	4.2	-38.0	
26	4	24													2.60		0.50	3.10	3.10	29.31	29.18	29.22	6	0.13	6.6	-38.0	
27	3	70																			29.25	29.17	29.22	7	0.08	9.1	-40.0
28	4	50																			29.20	29.15	29.17	7	0.05	8.9	-33.0
29	8	30																			29.36	28.99	29.15	6	0.37	7.8	-28.0
30	5	37																			29.43	29.18	29.32	6	0.25	4.0	-30.0
31																								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																											
6	2.3	2.9	0.0	2.3	13.8	13.7	11.5	23.4	23.9	34.2	27.8	41.2	29.79	28.17	29.20	185	-52.0																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Total Hrs =or&lt; 500:</td> <td>7.5</td> <td>Total Hrs =or&lt; 1000:</td> <td>62.3</td> <td>Total Hrs =or&lt; 3000:</td> <td>127.0</td> </tr> <tr> <td>Total Days =or&lt; 500:</td> <td>3</td> <td>Total Days =or&lt; 1000:</td> <td>10</td> <td>Total Days =or&lt; 3000:</td> <td>14</td> </tr> <tr> <td>% Hrs =or&lt; 500:</td> <td>1.0%</td> <td>% Hrs =or&lt; 1000:</td> <td>8.7%</td> <td>% Hrs =or&lt; 3000:</td> <td>17.6%</td> </tr> <tr> <td>% Days =or&lt; 500:</td> <td>10.0%</td> <td>% Days =or&lt; 1000:</td> <td>33.3%</td> <td>% Days =or&lt; 3000:</td> <td>46.7%</td> </tr> </table>																Total Hrs =or< 500:	7.5	Total Hrs =or< 1000:	62.3	Total Hrs =or< 3000:	127.0	Total Days =or< 500:	3	Total Days =or< 1000:	10	Total Days =or< 3000:	14	% Hrs =or< 500:	1.0%	% Hrs =or< 1000:	8.7%	% Hrs =or< 3000:	17.6%	% Days =or< 500:	10.0%	% Days =or< 1000:	33.3%	% Days =or< 3000:	46.7%
Total Hrs =or< 500:	7.5	Total Hrs =or< 1000:	62.3	Total Hrs =or< 3000:	127.0																																		
Total Days =or< 500:	3	Total Days =or< 1000:	10	Total Days =or< 3000:	14																																		
% Hrs =or< 500:	1.0%	% Hrs =or< 1000:	8.7%	% Hrs =or< 3000:	17.6%																																		
% Days =or< 500:	10.0%	% Days =or< 1000:	33.3%	% Days =or< 3000:	46.7%																																		
<table border="1" style="border-collapse: collapse;"> <tr> <td>Total Days</td> <td>30</td> </tr> </table>																Total Days	30																						
Total Days	30																																						

Remarks

18Z 24-hour accumalation

06Z & 12Z Precip not measured due to high winds

18Z Precip not measured due to high winds

18Z, 00Z, & 06Z Precip not measured due to high winds

18Z & 00Z Precip not measured due to high winds

Precip not measured due to high winds

18Z 30-HR accumalation

00Z Precip not measured due to high winds