

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					-17.2	-19.2										4			5														
15-18Z	0	0	-16.7	-19.4	-15.7	-17.8		0.6	3.5	SN	3.5				0.01	5			5						8	29		0.6	29.11	982.0	8012	986.3	
18-21Z	0	0	-15.5	-18.0			0.8	2.0	3.0	SN	3.0					4			5						8	24		3.0	29.07	980.8	8012	985.1	
21-24Z		4	-8.6	-11.0	-8.5	-16.5	3.0	3.0	3.0	SN	3.0				0.23	11			12						8	10		3.0	29.04	979.7	6011	984.0	
12 hr Max/Min				-8.5	-19.2																												
00-03Z	120	8	-8.3	-10.2			3.0	3.0	3.0	SN	3.0					10			10						8	10		3.0	29.00	978.5	8012	982.8	
03-06Z	170	11	-8.0	-9.2	-7.1	-10.6	3.0	3.0	3.0	SN	3.0				0.19	12			15						8	24		3.0	29.00	978.4	6001	982.7	
06-09Z	130	12	-9.4	-10.7	-7.1	-9.4	2.2	2.3	3.0	SN	3.0		BS	0.8		17			21	140	629				8	20		3.0	29.01	978.7	3003	983.0	
09-12Z	90	7	-10.4	-13.9	-9.0	-10.4	2.2	2.3	2.3	SN	2.6				0.07	14			17						7	20		2.3	29.02	979.0	3003	983.3	
12 hr Max/Min				-7.1	-10.6																												
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 (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					
132	6		-7.1	-19.2	-11.1	00-06L	0.0	0.6	3.5				21.1	0.0	0.8	0.50		17		140	21	629	8	10	00-06L	0.0	0.0	0.6					
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff												
																Max	Min	Avg	29.11	29.00	29.04	7	0.11	12.1									

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

Note 2: Duration should be fractions of an hour.

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

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)	
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500
12-15Z																13			17	80	1441				
15-18Z	0	0	-14.2	-17.9	-10.1	-14.6				1.3	SN	1.3			T	14			17	80	1508	6	40		
18-21Z	70	4	-16.0	-18.4	-12.8	-16.0										6			7			3	60		
21-24Z	90	4	-15.4	-17.6	-13.8	-17.1										7			9			4			
12 hr Max/Min				-10.1	-17.1																				
00-03Z					-12.9	-15.9										4			4						
03-06Z	0	0	-20.2	-23.4	-12.3	-20.2	0.5	0.5	IC	1.3	BR	0.5			T	5			6			6	60		
06-09Z	0	0	-15.9	-18.3	-14.9	-19.1	0.3	0.3			BR	0.3				3			4			7	35		
09-12Z	0	0	-19.9	-22.6	-13.0	-19.9										6			8			6	50		
12 hr Max/Min				-12.3	-20.2																				
Avg Wind							Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd		Max Temp	Min Temp	Avg Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500
80	1		-10.1	-20.2	-13.5	00-06L	0.0	0.0	1.3	-28.0	-18.4	2.6	0.8	0.0	T		14		80	17	1441	5	35	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																Max	Min	Avg				18-24L	0.0		
																29.17	29.06	29.13	6	0.11	10.1				

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Note 2: Duration should be fractions of an hour.

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

02

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.06	980.2	1012	984.5	
	29.09	981.5	1013	985.8	
	29.12	982.3	1008	986.6	2.6
	29.15	983.3	3005	987.7	
	29.16	983.8	2005	988.2	
	29.17	984.1	2003	988.5	5.1

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)									
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000							
12-15Z	90	9	-15.2	-17.4	-13.6	-19.8				IC	0.7							9			11	100	1450	6	45								
15-18Z	0	0	-15.9	-18.3	-13.0	-15.9									T			10			13												
18-21Z	350	5	-16.8	-19.3	-13.8	-18.6				IC	1.7							3			6			3									
21-24Z	320	4	-14.4	-16.4	-13.2	-15.1				SN	1.0				T			7			11			7	10								
12 hr Max/Min					-13.0	-19.8																											
00-03Z	350	11	-15.3	-17.6	-13.7	-14.7				SN	1.0							11			15			7	9		2.0						
03-06Z	340	7	-14.8	-17.0	-14.1	-15.2									T			16			19	330	344	8	7		3.0						
06-09Z	340	16	-14.8	-17.0	-14.2	-14.9				1.3 SN	1.3							16			21	340	839	8	8		1.8						
09-12Z	340	12	-15.8	-18.2	-14.2	-15.8				1.2 SN	1.2		BS	1.0	T			17			21	340	858	6	10								
12 hr Max/Min					-13.7	-15.8																											
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	<1000							
351	8	-13.0	-19.8	-15.3	-15.3	00-06L	0.0	0.0	0.0	-31.0	-23.8	6.8	0.0	1.0	T			17	340	21	839	6	7	00-06L	0.0								
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff												
																Max	Min	Avg															
																29.15	29.06	29.10	8	0.09	6.8												

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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

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.15	983.4	7007	987.8	
	29.14	982.9	6005	987.3	
	29.12	982.3	6006	986.7	
1.0	29.10	981.7	6006	986.1	0.6
3.0	29.08	980.9	7008	985.2	
3.0	29.06	980.4	7005	984.7	
3.0	29.06	980.2	7002	984.5	
3.0	29.06	980.4	2002	984.7	3.7

Dir (hrs)	
<1000	<3000
0.0	0.0
0.0	1.0
5.0	6.0
1.8	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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	0	0	-17.1	-20.2	-15.1	-17.7												15			19	340	1234	8	10					
15-18Z	60	2	-19.1	-22.0	-16.7	-19.1												4			5			8	5		3.0			
18-21Z	80	2	-18.3	-21.1	-17.2	-18.8												6			7			8	5		3.0			
21-24Z	90	12	-18.6	-21.3	-17.8	-19.6	1.0	1.9	1.9	SN		1.9	BR		1.9			T			11			12		8	3	1.9	3.0	
12 hr Max/Min					-15.1	-19.6																								
00-03Z																														
03-06Z	70	13	-19.1	-22.0	-18.3	-20.1	1.4	6.0	6.0	SN		3.8	BR		6.0			T			14			18	90	447	8	3	5.2	5.2
06-09Z	60	18	-18.1	-20.8			2.5	2.5					BR		2.5						14			8	35					
09-12Z	60	9	-16.5	-19.0	-15.6	-17.6		2.3	2.3	SN		2.6	BR		2.3			0.01			17			23	40	941	8	30		
12 hr Max/Min					-15.6	-20.1																								
Avg Wind							Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling						
Dir	Spd						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd			Time	Time	<500				
69	8						00-06L	0.0	0.0	0.0	-32.0	-25.6	8.3	12.7	0.0	0.01		17		40	23	941	00-06L	0.0						
							06-12L	1.0	1.9	1.9														06-12L	1.9					
							12-18L	1.4	6.0	6.0														12-18L	5.2					
							18-24L	0.0	4.8	4.8														18-24L	0.0					
							Altimeter																							
							Max	Min	Avg												Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
							29.19	29.08	29.15												7	0.11	5.0							

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04

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
3.0	29.08	981.2	2008	985.6	
3.0	29.10	982.3	2011	986.7	
3.0	29.14	983.3	2010	987.7	
3.0	29.16	983.7	1004	988.2	2.0
5.2	29.19	984.6	3004	989.1	
	29.19	984.8	1002	989.2	
	29.18	984.4	5004	988.8	4.0

j (hrs)	
<1000	<3000
3.0	6.0
6.0	6.0
5.2	5.2
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																											
15-18Z	90	13	-16.6	-19.2	-15.8	-17.5		6.0	6.0	SN		6.0	BR		4.8	BS	1.3	T									
18-21Z	140	22	-16.8	-19.2	-15.2	-16.8	2.0	3.0	3.0	SN		3.0				BS	3.0										
21-24Z	140	22	-16.9	-19.5	-16.1	-17.2	3.0	3.0	3.0	SN		2.0				BS	3.0										1.0
12 hr Max/Min					-15.2	-17.5																					
00-03Z					-15.9	-16.6																					
03-06Z	130	16	-17.1	-19.6	-15.9	-16.4	6.0	6.0	6.0	SN		6.0				BS	6.0										3.0
06-09Z	130	16	-17.9	-20.5	-16.3	-17.9	3.0	3.0	3.0	SN		2.0	FG		1.0	BS	3.0										3.0
09-12Z	130	18	-17.6	-20.2	-16.6	-17.6	3.0	3.0	3.0			FG		3.0	BS	3.0											3.0
12 hr Max/Min					-15.9	-17.9																					
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500		
130	18		-15.2	-17.9	-16.1	00-06L	0.0	6.0	6.0	-34.0	-29.2	19.0	8.8	19.3	T		27		140	42	2345	8	6	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	6	0.13	2.7						
																29.15	29.02	29.10									

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05

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.15	983.4	8001	987.9	
1.5	29.15	983.2	5002	987.7	
3.0	29.13	982.7	8005	987.1	1.0
3.0	29.09	981.5	8012	985.9	
3.0	29.08	981.3	7002	985.7	
3.0	29.02	979.1	7022	983.5	5.3

y (hrs)	
<1000	<3000
0.0	0.0
1.0	4.5
3.0	3.0
6.0	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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000					
12-15Z																															
15-18Z	140	17	-17.8	-20.4	-16.5	-17.8	3.0	3.0	3.0			BR	1.0	BS	6.0				26			37	150	1658	8	7		3.0			
18-21Z	150	20	-18.6	-21.2	-17.0	-18.6	3.0	3.0	3.0					BS	3.0				27			40	140	1955	8	8		3.0			
21-24Z	140	25	-17.8	-20.6	-16.6	-17.8	3.0	3.0	3.0					BS	3.0				23			32	140	2350	8	5		3.0			
12 hr Max/Min					-16.5	-18.6																									
00-03Z																		33													
03-06Z	170	26	-14.8	-16.9	-14.8	-17.6	6.0	6.0	6.0					BS	6.0				34			42	170	440	8	8		6.0			
06-09Z	160	32	-14.8	-16.9	-14.5	-14.8	3.0	3.0	3.0					BS	3.0				33			41	160	754	8	8		3.0			
09-12Z	130	14	-15.1	-17.4	-14.5	-15.2	3.0	3.0	3.0					BS	3.0				28			41	160	904	8	8		3.0			
12 hr Max/Min					-14.5	-17.6																									
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	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		
151	22			-14.5	-18.6	-15.9				00-06L	3.0	3.0	3.0	-34.0	-29.2		0.0	1.0	24.0	0.00		34		170	42	440	8	5	00-06L	0.0	
										06-12L	6.0	6.0	6.0											Altimeter							
										12-18L	6.0	6.0	6.0											Max			Total Obs Taken	Daily Pres Diff	Daily Temp Diff		
										18-24L	6.0	6.0	6.0											28.87			28.54	28.69			
																				6			0.33	4.1							

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.

06

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	28.87	973.8	7053	978.2	
3.0	28.83	972.5	7013	976.8	
3.0	28.74	969.5	7030	973.8	13.2
6.0	28.57	964.1	6016	968.3	
3.0	28.54	962.9	7012	967.2	
3.0	28.59	964.5	5016	968.7	14.6

y (hrs)	
<1000	<3000
3.0	3.0
6.0	6.0
6.0	6.0
6.0	6.0

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07

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
1.7	28.52	962.1	7024	966.1	
	28.48	960.8	6013	965.0	
	28.48	960.9	1001	965.1	
	28.47	960.3	6006	964.5	9.2
	28.48	960.7	1004	965.0	
	28.48	960.8	2001	965.0	
	28.50	961.6	2008	965.8	
	28.51	961.7	2001	965.9	2.8

j (hrs)	
<1000	<3000
1.7	1.7
0.0	0.0
0.0	0.0
0.0	0.0

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08

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	28.51	962.6	1009	966.8	
	28.58	964.0	1014	968.2	
	28.63	965.7	1017	970.0	5.4
	28.68	967.7	2020	971.9	
	28.72	968.8	2011	973.0	
	28.77	970.4	2016	974.7	
2.5	28.77	970.3	7001	974.7	8.6

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	2.5

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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	140	24	-17.1	-20.4			2.1	3.0	IC	1.0	BR	1.0	BS	2.0		23					8	10				
15-18Z	140	11	-17.9	-20.6	-16.6	-19.4	1.3	1.3	3.0	SN	1.7		BS	3.0	0.01	28			42	150	1538	8	4	0.5	0.9	
18-21Z	60	16	-19.4	-22.2			3.0	3.0	3.0	SN	3.0		BS	3.0		19					8	2	3.0	3.0		
21-24Z	90	14	-18.0	-20.9	-17.4	-20.1	3.0	3.0	3.0	SN	3.0		BS	3.0	0.02	19			27	130	2324	8	2	3.0	3.0	
12 hr Max/Min					-16.6	-20.1																				
00-03Z	120	10	-17.6	-19.6			3.0	3.0	3.0	SN	3.0		BS	3.0		20					8	2	2.5	3.0		
03-06Z	180	29	-17.1	-19.6	-16.5	-18.2	3.0	3.0	3.0	SN	3.0		BS	3.0		37			42	180	553	8	0	2.8	3.0	
06-09Z	190	38	-15.8	-18.2			3.0	3.0	3.0	SN	3.0		BS	3.0		49					8	0	3.0	3.0		
09-12Z	190	36	-15.0	-17.2	-14.9	-17.0	2.3	3.0	3.0	SN	3.0		BS	3.0		45			59	190	841	8	1	2.3	3.0	
12 hr Max/Min					-14.9	-18.2																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	
160	22	-14.9	-20.1	-16.6	-16.6	00-06L	1.3	3.4	6.0	-35.0	-31.0	20.7	1.0	23.0	0.03	49			190	59	841	8	0	00-06L	0.5	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																28.78	28.44	28.65	8	0.34	5.2					

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.

: 09

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	28.76	970.2	8001	974.9	
3.0	28.78	970.9	0007	975.3	
3.0	28.78	970.8	6001	975.2	
3.0	28.73	969.1	7017	973.5	3.4
3.0	28.64	966.2	8029	970.6	
3.0	28.54	962.6	8036	967.1	
3.0	28.44	959.4	7032	963.7	
3.0	28.49	960.6	6012	965.0	9.7

j (hrs)	
<1000	<3000
0.9	6.0
6.0	6.0
6.0	6.0
6.0	6.0

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	28.51	961.7	2011	966.1	
0.7	28.53	962.5	0008	966.8	
	28.53	962.5	4000	966.7	
	28.54	962.8	1003	967.0	6.3
	28.51	961.8	8010	966.0	
	28.48	960.6	8012	964.9	
0.8	28.44	959.5	7011	963.7	
0.5	28.45	959.7	0002	963.9	0.9

j (hrs)	
<1000	<3000
2.2	3.7
0.0	0.0
0.0	0.0
0.0	1.3

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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	340	11	-14.3	-18.5																										
15-18Z	350	14	-13.7	-20.1	-13.7	-16.6				SN	3.0																			
18-21Z	340	9	-15.2	-23.1						SN/IC	3.0																			
21-24Z	350	11	-12.5	-15.7	-12.5	-16.6				IC	1.5																			
12 hr Max/Min																														
00-03Z	0	0	-11.9	-22.1																										
03-06Z	70	8	-14.1	-22.1	-11.4	-15.1																								
06-09Z	100	14	-18.0	-25.1																										
09-12Z	50	17	-17.3	-24.2	-13.8	-19.7																								
12 hr Max/Min																														
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	Cover	CIG	Time	<500	<1000				
23	11		-11.4	-19.7	-14.2	00-06L	0.0	0.0	0.0	-33.0	-27.4	7.5	0.0	0.0	T		19		340	25	1951	5	55	00-06L	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	8	0.22	8.3									

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	28.48	960.6	1009	964.8	
	28.52	962.2	1016	966.5	
	28.59	964.3	2021	968.5	
	28.64	966.1	2018	970.4	3.3
	28.67	967.3	2012	971.5	
	28.70	968.1	2008	972.3	
	28.70	968.1	0000	972.5	
	28.70	968.1	0000	972.4	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			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Zulu	Dir	Spd		Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	<1000			
12-15Z	110	7	-15.8	-25.9											16							8	55							
15-18Z	130	11	-17.2	-25.9	-15.4	-17.4									13				21	40	1200	8	110							
18-21Z	140	12	-16.7	-23.6											20							7	70							
21-24Z	140	11	-16.3	-21.8	-16.1	-17.6									14				18	130	2326	6	120							
12 hr Max/Min					-15.4	-17.6																								
00-03Z	110	7	-16.3	-24.1											11							6	70							
03-06Z	130	10	-17.0	-24.9	-15.4	-17.4									15				20	140	518	7	70							
06-09Z	80	7	-17.5	-24.2											13							7	65							
09-12Z	130	5	-17.6	-25.3	-16.8	-18.0									10				17	150	604	7	50							
12 hr Max/Min					-15.4	-18.0																								
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	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Total Obs Taken	Daily Pres Diff	Daily Temp Diff	Time	<500	<1000				
125	9	-15.4	-18.0	-16.3	00-06L	0.0	0.0	0.0	-31.0	-23.8	0.0	0.0	0.0	0.00	20			40	21	1200	8	0.11	2.6	7	50	00-06L	0.0			
															Altimeter															
															Max	Min	Avg													
															28.81	28.70	28.76													

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

Note 2: Duration should be fractions of an hour.

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

: 12

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	28.70	968.2	3001	972.4	
	28.71	968.5	2003	972.7	
	28.76	970.2	2017	974.4	
	28.78	970.8	2006	975.2	4.7
	28.81	971.7	2009	976.0	
	28.79	971.2	7005	975.6	
	28.77	970.6	7006	975.0	
	28.74	969.5	7011	973.8	1.4

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

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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	50	10	-17.9	-23.9																													
15-18Z	70	11	-18.1	-25.0	-16.4	-18.1																											
18-21Z	90	10	-20.8	-25.3																													
21-24Z	90	6	-19.0	-24.9	-18.4	-23.6																											
12 hr Max/Min					-16.4	-23.6																											
00-03Z	0	0	-19.0	-23.9																													
03-06Z	100	7	-21.7	-25.7	-17.7	-22.7																											
06-09Z	60	14	-23.6	-28.2																													
09-12Z	270	6	-22.2	-26.7	-21.5	-24.0	1.0	1.5	SN/IC	3.0	BR	1.0																					
12 hr Max/Min					-17.7	-24.0																											
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000						
71	8			-16.4	-24.0	-18.9	00-06L	0.0	0.0	0.0	-37.0	-34.6	9.4	1.0	0.0	T			23	60	27	745	7	30	00-06L	0.0							
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																	Max			8		0.13		7.6									
																	Min																
																	Avg																
																	28.68																
																	28.55																
																	28.60																

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	28.68	967.6	7019	971.9	
	28.63	965.8	7018	970.2	
	28.61	965.2	7006	969.5	
	28.58	964.0	7012	968.4	6.8
	28.56	963.5	7005	967.8	
	28.55	963.0	7005	967.3	
	28.58	964.0	2010	968.3	
	28.62	965.4	2014	969.8	4.1

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

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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	160	27	-21.6	-25.1			1.0	3.0	3.0	SN	1.0	BR	1.0	BS	2.0		27					8	2	1.0	1.0		
15-18Z	50	15	-22.9	-26.3	-21.4	-23.4	3.0	3.0	3.0				BS	3.0	T		26				38	160	1406	8	2	2.0	3.0
18-21Z	60	13	-21.6	-24.8			3.0	3.0	3.0	SN	2.5			BS	3.0		17					8	2	0.5	2.0		
21-24Z	60	12	-21.0	-24.3	-21.0	-23.3	1.8	2.0	3.0	SN	3.0			BS	3.0	0.04	18				23	60	2149	8	12		
12 hr Max/Min																											
00-03Z	50	17	-19.8	-23.2					0.5	SN	3.0			BS	0.5		17					8	45				
03-06Z	160	25	-21.0	-24.2	-19.7	-21.7	0.3	2.0	2.5	SN	3.0			BS	3.0	T	27				37	150	528	8	17		
06-09Z	150	16	-20.4	-23.6			1.0	3.0	3.0	SN	3.0			BS	3.0		26					8	20				
09-12Z	160	23	-18.3	-21.2	-18.3	-20.9	2.0	3.0	3.0	SN	3.0			BS	3.0	T	22				35	150	714	8	25		
12 hr Max/Min																											
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust					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	Avg Sky Cover	Low-est CIG	Time	<500		
123	19					00-06L	4.0	6.0	6.0	-36.0	-32.8	18.5	1.0	20.5	0.04		27		160	38	1406	8	2	00-06L	3.0		
																Altimeter											
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																28.85	28.64	28.76	8	0.21	5.1						

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					
1.5	28.64	966.0	1006	970.4	
3.0	28.71	968.7	2027	973.0	
3.0	28.75	969.8	2011	974.2	
2.5	28.78	970.7	2009	975.0	6.7
	28.78	971.0	1003	975.3	
2.0	28.79	971.3	2003	975.7	
3.0	28.85	973.3	2020	977.7	
3.0	28.81	971.9	7014	976.3	6.5

j (hrs)	
<1000	<3000
4.0	4.5
2.0	5.5
0.0	2.0
0.0	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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z	150	29	-20.3	-23.4			1.5	3.0	3.0	SN	3.0			BS	3.0			32				8	20				
15-18Z	120	23	-20.6	-23.8	-20.5	-21.3	3.0	3.0	3.0	SN	3.0			BS	3.0	T		29			43	140	1357	8	25		
18-21Z	150	25	-20.9	-24.1			1.8	2.0	2.5	SN	3.0			BS	2.5			29				7	25				
21-24Z	80	14	-20.1	-23.1	-20.0	-21.3				SN	0.5					T		25			38	150	2027	7	60		
12 hr Max/Min					-20.0	-21.3																					
00-03Z	60	16	-22.0	-25.4														17				5	160				
03-06Z	60	13	-22.8	-26.4	-19.8	-23.2												18			23	60	216	2			
06-09Z	150	9	-22.8	-28.0														15				2					
09-12Z	60	18	-25.5	-30.0	-22.6	-25.5												21			26	50	1128	5	100		
12 hr Max/Min					-19.8	-25.5																					
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	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500		
111	18		-19.8	-25.5	-21.7	00-06L	4.5	6.0	6.0	-41.0	-41.8	9.5	0.0	8.5	T			32	140	43	1357	6	20	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																28.89	28.74	28.82	8	0.15	5.7						

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.

: 15

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000					
3.0	28.82	972.2	1003	976.6	
3.0	28.89	974.7	2025	979.1	
1.0	28.86	973.4	8013	977.7	
	28.85	973.2	7002	977.6	2.5
	28.81	971.7	7015	976.1	
	28.80	971.4	7003	975.8	
	28.79	971.0	7004	975.4	
	28.74	969.6	7014	974.0	2.3

y (hrs)	
<1000	<3000
0.0	6.0
0.0	1.0
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		6	-23.3	-31.3											18							4										
15-18Z	70	8	-22.9	-32.3	-22.2	-22.8									10			10	70	1800	3											
18-21Z		4	-21.4	-31.2											9						7	70										
21-24Z	0	0	-21.8	-29.9	-19.4	-23.3									11			15	40	2142	1	70										
12 hr Max/Min					-19.4	-23.3																										
00-03Z	0	0	-19.6	-29.6											6						7	70										
03-06Z	340	5	-17.9	-31.0	-16.8	-21.4									7			10	340	542	7	70										
06-09Z	330	8	-17.4	-30.1											11						7	70										
09-12Z	320	3	-17.4	-29.8	-17.3	-18.4									12			15	340	942	7	80										
12 hr Max/Min					-16.8	-21.4																										
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					
360	4			-16.8	-23.3	-19.0	00-06L	0.0	0.0	0.0	-33.0	-27.4	0.0	0.0	0.0	0.00		18			40	15	2142	5	70	00-06L	0.0					
																	Altimeter															
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																	28.73	28.52	28.62	8	0.21	6.5										

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

Note 2: Duration should be fractions of an hour.

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

16

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.73	969.2	7004	973.6	
	28.70	968.3	7009	972.7	
	28.67	967.0	8013	971.4	
	28.63	965.6	8014	970.0	7.6
	28.60	964.7	7009	969.0	
	28.58	963.9	7008	968.3	
	28.55	963.1	7008	967.4	
	28.52	962.3	7008	966.7	7.3

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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000							
12-15Z	0	0	-18.2	-28.1											4							8	60									
15-18Z	160	12	-15.9	-20.8	-15.9	-18.5				SN				1.8								8	20									
18-21Z	180	24	-16.0	-18.5			1.9	1.9	1.9	SN			BS	1.9								8	20									
21-24Z	0	0	-15.1	-17.3	-15.0	-16.4	1.3	1.3	1.3	SN			BS	1.3	T							8	30									
12 hr Max/Min					-15.0	-18.5																										
00-03Z	170	31	-16.5	-19.0			2.5	2.8	2.9	SN			BS	2.9								8	15									
03-06Z	170	37	-16.6	-19.1	-16.5	-16.7	3.0	3.0	3.0	SN			BS	3.0								8	15									
06-09Z	170	28	-16.9	-19.4			3.0	3.0	3.0	SN			BS	3.0								8	15									
09-12Z	170	26	-17.0	-19.7	-16.6	-17.5	2.0	2.5	3.0	SN			BS	3.0								8	50									
12 hr Max/Min					-16.5	-17.5																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
171	20			-15.0	-18.5	-16.2	00-06L	0.0	0.0	0.0	-34.0	-29.2	18.8	0.0	15.1	T			46	180	57	348	8	15	00-06L	0.0						
																Altimeter																
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff											
																28.54	28.44	28.48	8	0.10	3.5											

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.

17

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.50	961.5	7008	965.8	
1.5	28.46	960.0	7015	964.3	
1.9	28.44	959.3	5007	963.6	
	28.47	960.4	1011	964.6	5.2
2.0	28.45	959.6	8008	964.1	
3.0	28.48	960.8	8012	965.1	
3.0	28.54	962.8	2020	967.0	
2.0	28.52	962.2	8006	966.4	0.1

j (hrs)	
<1000	<3000
0.0	1.5
0.0	1.9
0.0	5.0
0.0	5.0

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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	29	-17.3	-20.0			2.0	2.0	3.0				BS	3.0				36					8	45		
15-18Z	170	26	-16.3	-18.9	-16.3	-17.6	3.0	3.0	3.0				BS	3.0				50	190	1645		8	70			
18-21Z	70	10	-17.4	-20.0			3.0	3.0	3.0	SN	2.5	FG	1.1	BS	2.4							8	5		1.2	
21-24Z	140	18	-15.9	-18.3	-15.8	-17.9	2.0	2.2	2.3	SN	3.0	FG/BR	2.0	BS	1.2	0.07		37				8	3	1.0	1.6	
12 hr Max/Min																										
00-03Z	140	20	-16.2	-18.7					0.9	SN	3.0	BR	0.9					22				8	30			
03-06Z	110	11	-16.4	-19.1	-15.7	-16.9	1.5	1.6	3.0	SN	3.0	BR/FG	2.0				T	21				8	25			
06-09Z	90	12	-16.3	-19.1					2.5	SN	2.3			BS	1.3							8	25			
09-12Z	60	10	-14.4	-21.9	-14.3	-16.9											T	12				7	70			
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time			<500	<1000
137	17	-14.3	-17.9	-15.5		00-06L	5.0	5.0	6.0	-35.0	-31.0	13.8	6.0	10.9	0.07		38			190	50	1645	8	30	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	Time				
																Max	Min	Avg				06-12L	1.0			
																28.61	28.49	28.56	8	0.12	3.6	12-18L	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.

18

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.52	961.7	7005	966.0	
	28.49	962.2	2005	965.7	
2.3	28.60	964.7	3025	969.0	
2.1	28.61	965.0	3003	969.2	4.6
	28.58	964.1	8009	968.4	
1.5	28.61	965.1	3010	969.3	
	28.55	963.2	7019	967.6	
	28.52	962.1	7011	966.3	0.1

j (hrs)	
<1000	<3000
0.0	0.0
2.8	4.4
0.0	1.5
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	80	11	-15.4	-21.2														14					7	50			
15-18Z	80	7	-13.8	-22.7	-13.4	-14.3												13					7	50			
18-21Z	50	12	-12.7	-23.9														13					6	150			
21-24Z	220	2	-15.0	-22.6	-12.4	-15.9												12					7	80			
12 hr Max/Min					-12.4	-15.9																					
00-03Z	350	7	-11.7	-17.9					SN	1.5								11					8	40			
03-06Z	180	8	-11.1	-14.8	-10.5	-11.5			SN	3.0					T			12					8	35			
06-09Z	190	28	-9.3	-10.6			3.0	3.0	3.0	SN	3.0		BS	3.0				36					8	5		2.5	
09-12Z	190	35	-9.0	-10.4	-8.8	-10.6	3.0	3.0	3.0	SN	3.0		BS	3.0	0.03			40					8	5		3.0	
12 hr Max/Min					-8.8	-11.5																					
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	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	7	5	Time	<500		
166	14		-8.8	-15.9	-11.2	00-06L	0.0	0.0	0.0	-32.0	-25.6	10.5	0.0	6.0	0.03	40			200	49	1053			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																28.51	27.93	28.20	8	0.58	7.1						

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

Note 2: Duration should be fractions of an hour.

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

: 19

s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	28.51	961.6	7005	965.8	
	28.43	959.1	7025	963.3	
	28.31	955.1	7040	959.3	
	28.24	952.7	7024	956.8	12.3
	28.14	949.2	7035	953.4	
	28.06	946.5	7027	950.6	
3.0	27.95	942.8	7037	946.9	
3.0	27.93	942.2	7006	946.3	19.9

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
5.5	6.0

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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 (hrs)															
	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	190	24	-10.0	-11.5			3.0	3.0	3.0	SN		3.0			BS	3.0						8	3	2.0	3.0														
15-18Z	170	20	-10.6	-12.1	-9.1	-10.7	3.0	3.0	3.0	SN		3.0			BS	3.0	0.01	35			44	180	1312	8	3	3.0	3.0												
18-21Z	110	10	-17.9	-20.3			1.5	3.0	3.0	SN		3.0			BS	1.5		18					8	3	1.5	2.0													
21-24Z	140	20	-21.7	-24.9	-13.0	-23.9	2.5	3.0	3.0	SN		2.0			BS	2.5	0.02	23			34	150	2352	8	6		1.5												
12 hr Max/Min							-9.1	-23.9																															
00-03Z	170	32	-20.4	-23.4			3.0	3.0	3.0						BS	3.0		38					8	2	2.5	3.0													
03-06Z	160	29	-19.3	-22.3	-19.3	-21.8	3.0	3.0	3.0						BS	3.0		33			45	160	100	8	2	3.0	3.0												
06-09Z	160	26	-19.2	-22.1			3.0	3.0	3.0						BS	3.0		29					8	4	1.0	1.5													
09-12Z	100	21	-18.8	-21.7	-18.5	-19.3	2.3	2.5	3.0						BS	3.0		26			36	170	638	8	40														
12 hr Max/Min							-18.5	-21.8																															
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling														
Dir	Spd	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													
156	23			-9.1	-23.9	-14.0	00-06L	6.0	6.0	6.0	-42.0	-43.6	11.0	0.0	22.0	0.03		38		160	45	100			8	2	00-06L	5.0											
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff																		
																28.83	27.97	28.43	8	0.86	14.8																		

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.

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	27.97	943.6	3014	947.7	
3.0	28.02	945.3	2017	949.5	
2.0	28.26	953.2	2079	957.5	
2.0	28.42	958.8	2056	963.0	6.1
3.0	28.51	961.8	1030	966.1	
3.0	28.67	967.2	3054	971.4	
3.0	28.76	970.5	1033	974.9	
2.3	28.83	972.3	2018	976.7	30.1

(hrs)	
<1000	<3000
6.0	6.0
3.5	4.0
6.0	6.0
1.5	5.3

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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	70	14	-19.1	-22.0			3.0	3.0	SN	1.3			BS	3.0			21				8	25					
15-18Z	50	12	-17.1	-19.8	-17.1	-19.4		3.0	3.0	SN	3.0	BR	2.0	BS	1.0	0.01	17			28	40	1336	8	25			
18-21Z	110	9	-17.0	-20.1			1.0	3.0	3.0	SN	3.0	BR	3.0				17				8	20					
21-24Z	60	18	-16.8	-19.9	-16.6	-18.0	3.0	3.0	3.0	SN	3.0	BR	1.0	BS	2.0	0.01	18			27	70	2248	8	15			
12 hr Max/Min																											
00-03Z	80	4	-14.2	-18.2			3.0	3.0	3.0	SN	3.0			BS	1.8		17				8	15					
03-06Z	0	0	-13.1	-15.6	-12.9	-17.0	3.0	3.0	3.0	SN	3.0					0.04	9			23	50	31	8	10			
06-09Z	160	12	-12.4	-14.4					1.0	SN	3.0	BR	1.0				24				8	10					
09-12Z	140	12	-14.3	-16.4	-11.4	-14.3	3.0	3.0	3.0	SN	3.0	BR/FG	3.0			0.01	25			33	160	841	8	10			
12 hr Max/Min																											
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust					Ceiling			
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	<500
91	10							00-06L	0.0	6.0	6.0	-33.0	-27.4	22.3	10.0	7.8	0.07		25		160	33	841	8	10	00-06L	0.0
																	Altimeter										
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																	28.86	28.79	28.83	8	0.07	8.0					

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.82	972.3	4000	976.7	
1.0	28.82	972.3	4000	976.6	
1.0	28.86	973.4	2011	977.8	
3.0	28.84	972.8	6006	977.2	14.0
3.0	28.84	972.8	4000	977.1	
3.0	28.82	972.1	8007	976.3	
3.0	28.79	971.2	7009	975.5	
3.0	28.82	972.3	3011	976.5	0.0

j (hrs)	
<1000	<3000
0.0	1.0
0.0	4.0
0.0	6.0
1.5	6.0

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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	120	17	-15.0	-17.3			3.0	3.0	3.0	SN	3.0	BR	3.0				21					8	9	2.5						
15-18Z	180	12	-17.0	-19.5	-14.3	-17.1	3.0	3.0	3.0	SN	3.0	BR	1.1	BS	1.9	0.01	17				27	140	1350	8	8	3.0				
18-21Z	80	16	-17.2	-19.8			3.0	3.0	3.0	SN	3.0			BS	3.0		21					8	5	3.0						
21-24Z	50	13	-17.4	-19.8	-17.0	-17.6	3.0	3.0	3.0	SN	3.0			BS	3.0	T	22				27	50	2025	8	20	1.8				
12 hr Max/Min																														
00-03Z	90	15	-16.6	-19.1			1.0	1.3	2.6	SN	1.2			BS	1.5		19					8	20							
03-06Z	60	14	-15.4	-21.8	-15.1	-17.7											18				25	60	344	6	140					
06-09Z	60	11	-15.0	-23.4						IC	1.7						15					6	150							
09-12Z	0	0	-18.1	-24.7	-13.3	-18.3				IC	1.8					T	18				25	30	947	7	170					
12 hr Max/Min																														
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	Pcpn Total	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time				
88	12		-13.3	-18.3	-15.0	00-06L	6.0	6.0	6.0	-32.0	-25.6	16.7	4.1	9.4	0.01		22		140	27	1350	7	5	00-06L	0.0					
																Altimeter														
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
																28.88	28.82	28.86	8	0.06	5.0									

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	28.82	972.3	5000	976.6	
3.0	28.86	973.5	2012	977.8	
3.0	28.85	973.2	6003	977.5	
3.0	28.86	973.4	1002	977.7	0.6
1.3	28.88	974.1	3007	978.4	
	28.88	974.1	4000	978.4	
	28.88	974.2	0001	978.5	
	28.87	973.7	5005	978.1	1.4

y (hrs)	
<1000	<3000
5.5	6.0
4.8	6.0
0.0	1.3
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
12-15Z	40	5	-13.4	-24.9											11						7	180			
15-18Z	0	0	-14.4	-24.0	-13.4	-19.7									14			18	100	1559	6	180			
18-21Z	330	8	-14.3	-22.8											9						6	65			
21-24Z	340	8	-11.2	-23.2	-11.1	-18.9									17			22	340	2302	8	40			
12 hr Max/Min					-11.1	-19.7																			
00-03Z	350	4	-9.2	-13.6				0.7	SN	2.1					10						8	40			
03-06Z	180	14	-11.6	-13.3	-8.1	-11.6	0.5	1.8	2.1	SN	2.1		BS	1.4	0.02	30		38	190	452	8	11			
06-09Z	140	10	-12.8	-14.7			3.0	3.0	3.0	SN	3.0		BS	2.9		27					8	2	1.9	2.8	
09-12Z	110	7	-13.5	-15.4	-11.6	-13.5	2.7	3.0	3.0	SN	3.0		BS	0.8	0.05	17		37	170	654	8	9		1.0	
12 hr Max/Min					-8.1	-13.5																			
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust					Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcpn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500	
102	7		-8.1	-19.7	-12.0	00-06L	0.0	0.0	0.0	-32.0	-25.6	10.2	0.0	5.1	0.07	30		190	38	452	7	2	00-06L	0.0	
																Altimeter									
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																28.86	28.71	28.79	8	0.15	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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.86	973.5	5002	977.7	
	28.84	972.9	8006	977.2	
	28.82	972.2	7007	976.5	
	28.79	971.2	6010	975.4	2.2
	28.71	968.4	8028	972.6	
2.1	28.74	969.4	3010	973.6	
3.0	28.76	970.3	3009	974.6	
3.0	28.76	970.2	8001	974.4	3.5

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	2.1
3.8	6.0

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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	140	7	-14.2	-16.3			3.0	3.0	SN	3.0	BR	2.8				11						8	15					
15-18Z	80	12	-15.6	-18.9	-15.4	-15.9	0.4	2.2	3.0	SN	3.0	BR	3.0			0.02	14			21	90	1732	8	15				
18-21Z	80	11	-14.5	-18.4					2.5	SN	2.5	BR	2.5				13					8	15					
21-24Z	90	8	-15.0	-18.9	-14.0	-15.9			3.0	SN	3.0	BR	3.0			T	13			20	70	2341	6	15				
12 hr Max/Min																												
00-03Z	100	14	-15.1	-20.1						SN	0.6	BR	0.3	BS	1.3		13					8	15					
03-06Z	110	10	-15.6	-20.4	-14.6	-15.8							BS	2.3	T	16			23	90	356	6	29					
06-09Z	60	12	-14.6	-18.7					1.0	1.2	SN	1.8		BS	0.1		19					7	20					
09-12Z	90	9	-12.3	-17.6	-12.1	-16.1			1.5	2.0	SN	2.2	BR	1.0		T	19			25	50	919	7	20				
12 hr Max/Min																												
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000			
91	10		-12.1	-16.1	-13.4	00-06L	0.4	5.2	6.0	-28.0	-18.4	16.1	12.5	3.7	0.02		19		50	25	919	7	15	00-06L	0.0			
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																Max			28.92	28.77	28.84	8	0.15	4.0				

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	28.77	970.6	3004	974.8	
3.0	28.78	971.0	1004	975.2	
3.0	28.80	971.6	2006	975.9	
3.0	28.83	972.4	2008	976.7	1.2
0.3	28.84	972.7	1003	976.9	
0.2	28.87	974.0	3013	978.4	
3.0	28.90	974.9	1009	979.2	
2.0	28.92	975.8	3009	980.0	5.6

y (hrs)	
<1000	<3000
0.0	6.0
0.0	6.0
0.0	0.5
0.0	5.0

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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	70	11	-10.9	-16.2			0.8	0.9	SN	0.9						14					8	30								
15-18Z	90	13	-11.2	-15.2	-9.3	-12.5		2.0	2.1	SN/IC	3.0				T	16				24	60	1518	3	30						
18-21Z	60	16	-11.4	-20.0						IC	2.0					21						4								
21-24Z	110	14	-10.7	-12.8	-8.5	-13.0		1.0	1.5	SN	1.5		BS	1.5	T	22				32	170	2226	8	25						
12 hr Max/Min					-8.5	-13.0																								
00-03Z	150	16	-7.9	-11.3			1.0	1.5	3.0	SN	3.0		BS	3.0		20						8	35							
03-06Z	150	20	-9.5	-14.0	-7.8	-10.6			3.0	SN	0.3		BS	3.0	T	25				30	150	530	8	70						
06-09Z	160	20	-9.0	-13.8					1.0				BS	1.0		19						7	100							
09-12Z	150	15	-6.4	-13.9	-6.4	-9.4										20				27	130	1034	6	150						
12 hr Max/Min					-6.4	-10.6																								
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	Pcpn Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000				
124	16		-6.4	-13.0	-8.6	00-06L	0.0	2.8	3.0	-21.0	-5.8	10.7	0.0	8.5	T		25		170	32	2226	7	25	00-06L	0.0	0.0				
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																29.10	28.92	29.01	8	0.18	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.

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	28.92	975.6	7002	979.9	
	28.94	976.4	3008	980.7	
	28.96	976.9	2005	981.2	
1.5	29.01	978.5	2016	982.8	6.1
	29.00	978.2	7003	982.4	
	29.04	979.8	1016	984.0	
	29.10	981.6	2018	985.8	
	29.09	981.3	6003	985.5	5.5

y (hrs)	
<1000	<3000
0.0	0.0
0.0	1.5
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)					Pcpr Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Zulu	Dir	Spd		Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs		bs	hrs	Spd	Dir	Time	Spd			Dir	Time	<500	<1000			
12-15Z	140	18	-8.9	-13.6												24						6	100							
15-18Z	140	17	-9.9	-15.1	-9.4	-10.1										22			31	140	1353	5	100							
18-21Z	130	11	-10.7	-15.0					0.5				BS	0.5		19						6	100							
21-24Z	110	8	-10.0	-16.1	-9.8	-10.8			0.5				BS	0.5		19			29	140	2300	5	100							
12 hr Max/Min																														
00-03Z	80	10	-9.3	-15.0												16						7	80							
03-06Z	130	18	-9.1	-16.0	-8.9	-10.1										21			27	140	538	7	80							
06-09Z	120	9	-9.4	-16.6												19						7	90							
09-12Z	130	11	-9.5	-17.1	-8.8	-10.2										12			27	150	551	7	80							
12 hr Max/Min																														
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
127	13	-8.8	-10.8	-9.5	00-06L	0.0	0.0	0.0	-20.0	-4.0	0.0	0.0	1.0	0.00	24			140	31	1353	6	80	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																29.39	29.13	29.30	8	0.26	2.0									

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)			
<3000	29.13	982.7	2014	986.9	
	29.20	985.0	2023	989.2	
	29.27	987.4	2024	991.6	
	29.32	989.0	2016	993.3	10.5
	29.35	990.2	1012	994.4	
	29.37	990.9	1007	995.2	
	29.38	991.1	1002	995.4	
	29.39	991.4	1003	995.7	10.1

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z	140	19	-11.5	-17.8											16						6	150						
15-18Z	70	14	-12.0	-18.3	-9.6	-12.1									16			23	90	1710	6	150						
18-21Z	80	12	-10.1	-18.5											23						6	100						
21-24Z	70	10	-9.6	-20.3	-9.6	-11.8									16			34	50	1822	6	140						
12 hr Max/Min					-9.6	-12.1																						
00-03Z	90	15	-9.0	-20.6											16						5	150						
03-06Z	90	9	-7.0	-19.8	-6.8	-10.7									15			22	100	234	6	140						
06-09Z	60	8	-7.2	-22.0											13						2							
09-12Z	60	18	-8.1	-22.3	-6.3	-8.9									17			23	60	1148	1							
12 hr Max/Min					-6.3	-10.7																						
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	
85	13			-6.3	-12.1	-8.2	00-06L	0.0	0.0	0.0	-23.0	-9.4	0.0	0.0	0.0	0.00	23	50	34	1822	5	100	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				
																Altimeter												
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																29.41	29.28	29.37	8	0.13	5.8							

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.41	992.1	2007	996.3	
	29.39	991.5	6006	995.9	
	29.41	992.0	3005	996.3	
	29.41	992.1	1001	996.4	3.1
	29.37	990.8	8013	995.0	
	29.35	990.0	6008	994.3	
	29.34	989.7	7003	993.9	
	29.28	987.6	7021	991.9	3.8

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z	60	10	-8.1	-22.5											17								1							
15-18Z	80	10	-8.2	-23.2	-7.7	-9.0									12			21	60	1320		1								
18-21Z	80	7	-7.8	-21.6											11							1								
21-24Z	50	17	-10.4	-20.4	-7.1	-10.4									17			23	60	2344		6	180							
12 hr Max/Min					-7.1	-10.4																								
00-03Z	60	16	-11.9	-19.4											20							5	180							
03-06Z	60	18	-12.0	-20.1	-9.8	-13.0									20			27	50	503		0								
06-09Z	80	17	-12.3	-21.7											19							0								
09-12Z	60	15	-12.0	-21.3	-11.4	-12.8									18			25	60	616		0								
12 hr Max/Min					-9.8	-13.0																								
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	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					
65	14		-7.1	-13.0	-9.1	00-06L	0.0	0.0	0.0	-23.0	-9.4	0.0	0.0	0.0		20		50	27	503	2	180	00-06L	0.0						
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	8	0.05	5.9									
																29.33	29.28	29.29												

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		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.28	987.8	1002	992.0	
	29.28	987.6	6002	991.8	
	29.29	988.0	2004	992.3	
	29.28	987.6	7004	991.9	4.5
	29.28	987.7	2001	991.9	
	29.29	988.0	1003	992.3	
	29.31	988.8	2008	993.1	
	29.33	989.3	1005	993.7	1.7

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

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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	40	17	-12.2	-22.1											16															
15-18Z	40	10	-10.8	-23.4	-10.5	-12.8									14			21	60	1323										
18-21Z	0	0	-9.3	-22.8											9															
21-24Z	80	3	-9.0	-23.6	-8.4	-11.2									6			11	50	1805										
12 hr Max/Min					-8.4	-12.8																								
00-03Z	0	0	-7.6	-20.7											5															
03-06Z	0	0	-8.9	-24.5	-8.8	-9.5									4			5	80	55										
06-09Z	40	11	-10.5	-25.8											11															
09-12Z	60	13	-12.5	-24.3	-8.6	-13.1									16			21	60	1120										
12 hr Max/Min					-8.6	-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	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			
47	7		-8.4	-13.1	-10.0	00-06L	0.0	0.0	0.0	-25.0	-13.0	0.0	0.0	0.0	0.00		16		60	21	1323			1		00-06L	0.0			
																Altimeter														
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
																29.42	29.35	29.39	8	0.07	4.7									

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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s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.35	990.0	1007	994.4	
	29.37	990.9	2009	995.3	
	29.40	992.0	2011	996.2	
	29.41	992.2	0002	996.4	4.6
	29.42	992.4	2002	996.7	
	29.40	992.0	7004	996.2	
	29.40	991.8	7002	996.0	
	29.39	991.5	7003	995.9	2.2

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

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McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)		
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z	70	15	-13.8	-23.9											16								1			
15-18Z	90	9	-14.3	-23.9	-12.5	-14.5									15			20	60	1609			1			
18-21Z	60	13	-12.1	-24.4											16								1			
21-24Z	50	8	-11.8	-25.2	-11.8	-17.9									15			21	70	1903			2			
12 hr Max/Min					-11.8	-17.9																				
00-03Z	30	9	-10.8	-24.2											12											
03-06Z	0	0	-11.0	-25.1	-9.0	-12.1				SN	0.7				T	6		16	4	116						
06-09Z	0	0	-11.1	-18.7						SN	1.0					5							2	25		
09-12Z	0	0	-12.6	-16.6	-9.1	-13.6									T	3		8	310	757			3			
12 hr Max/Min					-9.0	-13.6																				
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time			<500	<1000
61	7		-9.0	-17.9	-12.0	00-06L	0.0	0.0	0.0	-31.0	-23.8	1.7	0.0	0.0	T	16		70	21	1903			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg				8	0.15	8.9	06-12L	0.0
																29.41	29.26	29.36			12-18L	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.

30

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.39	991.4	7001	995.8	
	29.40	992.0	2006	996.3	
	29.41	992.1	1001	996.5	
	29.40	991.9	7002	996.3	0.3
	29.37	990.7	8012	995.0	
0.2	29.33	989.5	7012	993.8	
1.0	29.29	988.2	7013	992.5	
	29.26	987.0	7012	991.3	4.5

Dir (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.2
0.0	1.0

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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	40	3	-14.4	-24.0											4								1				
15-18Z	330	6	-11.5	-18.7	-11.5	-14.4									8			9	330	1737			1				
18-21Z	320	3	-11.3	-18.5											7								0				
21-24Z	340	7	-11.1	-17.9	-10.8	-13.8									7			11	337	2340			1				
12 hr Max/Min					-10.8	-14.4																					
00-03Z	70	6	-13.7	-21.2											9								1				
03-06Z	70	13	-14.2	-27.2	-10.4	-16.2									14			19	60	550			2				
06-09Z	50	14	-14.8	-26.4											17								7	30			
09-12Z	50	13	-14.1	-28.6	-13.7	-15.3									17			22	60	924			7	30			
12 hr Max/Min					-10.4	-16.2																					
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	Pcpn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500	<1000		
39	8	-10.4	-16.2	-12.3	00-06L	0.0	0.0	0.0	-28.0	-18.4	0.0	0.0	0.0	0.00		17		60	22	924	3	30	00-06L	0.0	0.0		
															Altimeter												
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															29.25	29.17	29.20	8	0.08	5.8							

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

Note 2: Duration should be fractions of an hour.

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

31

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.21	985.4	7016	989.8	
	29.17	984.1	7013	988.5	
	29.17	984.0	6001	988.3	
	29.17	984.0	4000	988.4	7.9
	29.18	984.4	3004	988.8	
	29.20	984.9	2005	989.2	
	29.22	985.8	2009	990.1	
	29.25	986.6	2008	990.9	0.4

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

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Station:
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Monthly Climatology / Page 1

Month:
OCT 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	-7.1	-19.2	-11.1		3.75	6.00	4.33	14.08	0.60	5.00	6.00	4.58	16.18	3.50	6.00	6.00	5.25	20.75	21.08		0.83	21.91	0.50	6	132	17	
2	-10.1	-20.2	-13.5								0.50	0.33	0.83	1.32		0.50	0.33	2.15	2.57	0.83		3.40	T	1	80	14	
3	-13.0	-19.8	-15.3													2.50	2.50	6.81		1.00	7.81	T	8	351	17		
4	-15.1	-20.1	-16.8		1.00	1.42		2.42		1.92	6.00	4.75	12.67		1.92	6.00	4.75	12.67	8.25	12.67		20.92	0.01	8	69	17	
5	-15.2	-17.9	-16.1		5.00	6.00	6.00	17.00	6.00	6.00	6.00	6.00	24.00	6.00	6.00	6.00	6.00	24.00	19.00	8.75	19.25	47.00	T	18	130	27	
6	-14.5	-18.6	-15.9	3.00	6.00	6.00	6.00	21.00	3.00	6.00	6.00	6.00	21.00	3.00	6.00	6.00	6.00	21.00		1.00	24.00	25.00	0.00	22	151	34	
7	-11.7	-13.8	-12.4	1.25				1.25	2.70				2.70	3.50	1.50	3.33		8.33	6.83		5.50	12.33	0.07	10	138	29	
8	-12.2	-19.1	-14.5															7.50	2.50		10.00	T	11	80	19		
9	-14.9	-20.1	-16.6	1.33	6.00	6.00	5.30	18.63	3.41	6.00	6.00	6.00	21.41	6.00	6.00	6.00	6.00	24.00	20.73	1.00	23.00	44.73	0.03	22	160	49	
10	-10.0	-16.6	-12.2	3.08				3.08	3.66				3.66	4.83		3.70		8.53	14.82		4.23	19.05	0.07	9	55	42	
11	-11.4	-19.7	-14.2															7.50			7.50	T	11	23	19		
12	-15.4	-18.0	-16.3																					9	125	20	
13	-16.4	-24.0	-18.9								1.00	1.00				1.50	1.50	9.41	1.00		10.41	T	8	71	23		
14	-18.3	-23.4	-20.0	4.00	4.75	0.30	3.00	12.05	6.00	5.00	2.00	6.00	19.00	6.00	6.00	3.00	6.00	21.00	18.50	1.00	20.50	40.00	0.04	19	123	27	
15	-19.8	-25.5	-21.7	4.50	1.80			6.30	6.00	2.00			8.00	6.00	2.50			8.50	9.50		8.50	18.00	T	18	111	32	
16	-16.8	-23.3	-19.0																					4	360	18	
17	-15.0	-18.5	-16.2		3.17	5.50	5.00	13.67		3.17	5.80	5.50	14.47		3.17	5.92	6.00	15.09	18.75		15.09	33.84	T	20	171	46	
18	-14.3	-17.9	-15.5	5.00	5.00	1.50		11.50	5.00	5.20	1.60		11.80	6.00	5.30	3.90	2.50	17.70	13.83	6.00	10.93	30.76	0.07	17	137	38	
19	-8.8	-15.9	-11.2				6.00	6.00				6.00	6.00				6.00	6.00	10.50		6.00	16.50	0.03	14	166	40	
20	-9.1	-23.9	-14.0	6.00	4.00	6.00	5.25	21.25	6.00	6.00	6.00	5.50	23.50	6.00	6.00	6.00	6.00	24.00	11.00		22.00	33.00	0.03	23	156	38	
21	-11.4	-19.4	-14.1		4.00	6.00	3.00	13.00	6.00	6.00	6.00	3.00	21.00	6.00	6.00	6.00	4.00	22.00	22.33	10.00	7.80	40.13	0.07	10	91	25	
22	-13.3	-18.3	-15.0	6.00	6.00	1.00		13.00	6.00	6.00	1.30		13.30	6.00	6.00	2.60		14.60	16.66	4.08	9.42	30.16	0.01	12	88	22	
23	-8.1	-19.7	-12.0			0.50	5.70	6.20			1.75	6.00	7.75			2.80	6.00	8.80	10.20		5.10	15.30	0.07	7	102	30	
24	-12.1	-16.1	-13.4	0.42				0.42	5.16			2.50	7.66	6.00	5.50		3.20	14.70	16.07	12.50	3.65	32.22	0.02	10	91	19	
25	-6.4	-13.0	-8.6			1.00		1.00	2.80	1.00	1.50		5.30	3.00	1.50	6.00	1.00	11.50	10.73		8.50	19.23	T	16	124	25	
26	-8.8	-10.8	-9.5												1.00			1.00			1.00	1.00		13	127	24	
27	-6.3	-12.1	-8.2																					13	85	23	
28	-7.1	-13.0	-9.1																					14	65	20	
29	-8.4	-13.1	-10.0																					7	47	16	
30	-9.0	-17.9	-12.0															1.67			1.67	T	7	61	16		
31	-10.4	-16.2	-12.3																					8	39	17	

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	
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													
-6.3	-25.5	-14.0	34.6	50.5	47.2	49.6	62.3	59.3	56.5	63.2	73.2	70.4	73.8	73.0	284.2	61.3	196.3	541.9	1.02	114	12		49	59			

Temp (C)	
Average	
Max	Min
-11.9	-18.2

Total Hrs =or< 1600:	181.9	Total Hrs =or< 4800:	241.2	Total Hrs < 9999:	290.3
Total Days =or< 1600:	18	Total Days =or< 4800:	20	Total Days < 9999:	22
% Hrs =or< 1600:	24.4%	% Hrs =or< 4800:	32.4%	% Hrs < 9999:	39.0%
% Days =or< 1600:	58.1%	% Days =or< 4800:	64.5%	% Days < 9999:	71.0%

Total Hrs	
sn/sg/ic:	284.2
fg/br:	61.3
bs:	196.3
Total Days	
sn/sg/ic:	23
fg/br:	12
bs:	19

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

Max Gust
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Station:
NZCM

Monthly Climatology / Page 2

Month:
OCT 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	10														0.60	6.00	6.00	5.25	17.85	29.11	29.00	29.04	7	0.11	12.1	-26.0
2	5	35																			29.17	29.06	29.13	6	0.11	10.1	-28.0
3	6	7									5.00	1.75	6.75			1.00	6.00	6.00	13.00	29.15	29.06	29.10	8	0.09	6.8	-31.0	
4	8	3		1.92	5.20			7.12	3.00	6.00	5.17		14.17	6.00	6.00	5.17		17.17	29.19	29.08	29.15	7	0.11	5.0	-32.0		
5	8	6								1.00	3.00	6.00	10.00		4.50	3.00	6.00	13.50	29.15	29.02	29.10	6	0.13	2.7	-34.0		
6	8	5							3.00	6.00	6.00	6.00	21.00	3.00	6.00	6.00	6.00	21.00	28.87	28.54	28.69	6	0.33	4.1	-34.0		
7	8	8							1.67				1.67	1.67				1.67	28.52	28.47	28.49	8	0.05	2.1	-26.0		
8	7	10															2.50	2.50	28.77	28.51	28.67	7	0.26	6.9	-34.0		
9	8	0	0.50	6.00	5.30	5.30	17.10	0.85	6.00	6.00	6.00	18.85	6.00	6.00	6.00	6.00	24.00	28.78	28.44	28.65	8	0.34	5.2	-35.0			
10	7	2	2.15				2.15	2.15	2.15				2.15	3.70			1.30	5.00	28.54	28.44	28.50	8	0.10	6.6	-34.0		
11	5	55																0.00	28.70	28.48	28.63	8	0.22	8.3	-33.0		
12	7	50																0.00	28.81	28.70	28.76	8	0.11	2.6	-31.0		
13	7	30																0.00	28.68	28.55	28.60	8	0.13	7.6	-37.0		
14	8	2	3.00	0.50			3.50	4.00	2.00				6.00	4.50	5.50	2.00	6.00	18.00	28.85	28.64	28.76	8	0.21	5.1	-36.0		
15	6	20												6.00	1.00			7.00	28.89	28.74	28.82	8	0.15	5.7	-41.0		
16	5	70																	28.73	28.52	28.62	8	0.21	6.5	-33.0		
17	8	15												1.50	1.92	5.00	5.00	13.42	28.54	28.44	28.48	8	0.10	3.5	-34.0		
18	8	3		1.00			1.00			2.80			2.80		4.40	1.50		5.90	28.61	28.49	28.56	8	0.12	3.6	-35.0		
19	7	5									5.50	5.50					6.00	6.00	28.51	27.93	28.20	8	0.58	7.1	-32.0		
20	8	2	5.00	1.50	5.50	1.00	13.00	6.00	3.50	6.00	1.50	17.00	6.00	4.00	6.00	5.25	21.25	28.83	27.97	28.43	8	0.86	14.8	-42.0			
21	8	10									1.50	1.50	1.00	4.00	6.00	6.00	6.00	17.00	28.86	28.79	28.83	8	0.07	8.0	-33.0		
22	7	5							5.50	4.75			10.25	6.00	6.00	1.30		13.30	28.88	28.82	28.86	8	0.06	5.0	-32.0		
23	7	2				1.90	1.90					3.80	3.80				2.10	6.00	8.10	28.86	28.71	28.79	8	0.15	11.6	-32.0	
24	7	15												6.00	6.00	0.50	5.00	17.50	28.92	28.77	28.84	8	0.15	4.0	-28.0		
25	7	25													1.50			1.50	29.10	28.92	29.01	8	0.18	6.6	-21.0		
26	6	80																	29.39	29.13	29.30	8	0.26	2.0	-20.0		
27	5	100																	29.41	29.28	29.37	8	0.13	5.8	-23.0		
28	2	180																	29.33	29.28	29.29	8	0.05	5.9	-23.0		
29	1																		29.42	29.35	29.39	8	0.07	4.7	-25.0		
30	2	25														0.20	1.00	1.20	29.41	29.26	29.36	8	0.15	8.9	-31.0		
31	3	30																	29.25	29.17	29.20	8	0.08	5.8	-28.0		

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	10.7	10.9	16.0	8.2	26.2	32.1	31.2	32.1	52.0	63.8	56.8	73.3	29.42	27.93	28.86	239	-42.0																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Total Hrs =or< 500:</td> <td>45.8</td> <td>Total Hrs =or< 1000:</td> <td>121.4</td> <td>Total Hrs =or< 3000:</td> <td>245.9</td> </tr> <tr> <td>Total Days =or< 500:</td> <td>7</td> <td>Total Days =or< 1000:</td> <td>14</td> <td>Total Days =or< 3000:</td> <td>21</td> </tr> <tr> <td>% Hrs =or< 500:</td> <td>6.2%</td> <td>% Hrs =or< 1000:</td> <td>16.3%</td> <td>% Hrs =or< 3000:</td> <td>33.0%</td> </tr> <tr> <td>% Days =or< 500:</td> <td>22.6%</td> <td>% Days =or< 1000:</td> <td>45.2%</td> <td>% Days =or< 3000:</td> <td>67.7%</td> </tr> </table>																Total Hrs =or< 500:	45.8	Total Hrs =or< 1000:	121.4	Total Hrs =or< 3000:	245.9	Total Days =or< 500:	7	Total Days =or< 1000:	14	Total Days =or< 3000:	21	% Hrs =or< 500:	6.2%	% Hrs =or< 1000:	16.3%	% Hrs =or< 3000:	33.0%	% Days =or< 500:	22.6%	% Days =or< 1000:	45.2%	% Days =or< 3000:	67.7%
Total Hrs =or< 500:	45.8	Total Hrs =or< 1000:	121.4	Total Hrs =or< 3000:	245.9																																		
Total Days =or< 500:	7	Total Days =or< 1000:	14	Total Days =or< 3000:	21																																		
% Hrs =or< 500:	6.2%	% Hrs =or< 1000:	16.3%	% Hrs =or< 3000:	33.0%																																		
% Days =or< 500:	22.6%	% Days =or< 1000:	45.2%	% Days =or< 3000:	67.7%																																		
<table border="1" style="border-collapse: collapse;"> <tr> <td>Total Days</td> <td>31</td> </tr> </table>																Total Days	31																						
Total Days	31																																						

Remarks

00Z, 06Z & 12z PRECIP NOT MEASURED DUE TO
NO PRECIP AMOUNT DUE TO HIGH WINDS
18Z 18 HOUR PRECIP AMOUNT

06Z & 12z PRECIP NOT MEASURED DUE TO HIGH
18Z 18 HOUR PRECIP AMOUNT

06Z & 12z PRECIP NOT MEASURED DUE TO HIGH
18Z PRECIP NOT MEASURED DUE TO HIGH WIND