

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					-10.0	-11.9											31	150	1357	37	160	1429													
15-18Z	160	29	-12.3	-15.8	-11.5	-12.5	1.0	2.0	2.0					BS	2.0		32	150	1746	43	160	1729	8	100					29.02	978.7	0016	983.0			
18-21Z					-12.4	-15.0											40	150	1922	46	170	1908													
21-24Z	130	22	-15.9	-19.8	-15.1	-16.1	4.5	6.0	6.0	SN/IC	5.0			BS	6.0	T	39	150	2239	46	140	2232	8	15		5.5	29.20	984.8	3049	989.1	13.9				
12 hr Max/Min					-10.0	-16.1																													
00-03Z					-15.9	-16.8											27	150	123	32	150	122													
03-06Z	110	13	-16.9	-21.5	-15.3	-16.9	1.0	1.0	1.0	SN/IC	6.0			BS	1.0	T	26	1150	309	33	150	308	8	15		2.0	29.27	987.1	3009	991.4					
06-09Z					-15.9	-16.9											19	110	850	29	110	850													
09-12Z	130	14	-15.5	-22.9	-14.8	-16.3				IC	3.1					T	23	130	932	35	130	932	8	35			29.23	986.1	3002	990.4	9.3				
12 hr Max/Min					-14.8	-16.9																													
Avg Wind		Dir		Spd	Temp	Max	Min	Avg	Visibility (hrs)					Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)							
Dir		Spd		Temp	Temp	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000	<3000					
138		20			-10.0	-16.9	-12.3		00-06L	1.0	2.0	2.0	-32.0	-25.6	14.1	0.0	9.0	T	150	40	1922	170	46	1908	8	15	00-06L	0.0	0.0	0.0					
									06-12L	4.5	6.0	6.0							Altimeter			Total	Daily	Daily			06-12L	0.0	0.0	5.5					
									12-18L	0.0	1.0	1.0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0.0	0.0	2.0					
									18-24L	0.0	0.0	0.0							29.27	29.02	29.18	Taken	Diff	Diff			18-24L	0.0	0.0	0.0					
																				4	0.25	6.9													

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

Note 2: Duration should be fractions of an hour.

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

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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					-15.5	-18.2																							
15-18Z	120	8	-19.8	-25.6	-17.0	-19.9												23	120	1221	31	130	1230	2					
18-21Z					-16.0	-20.1												11	100	1942	14	110	1843						
21-24Z	120	3	-17.2	-26.6	-16.4	-18.1												5	100	2148	6	90	2144	7	100				
12 hr Max/Min					-15.5	-20.1																							
00-03Z					-17.1	-21.0												5	100	33	7	30	200						
03-06Z	50	6	-16.2	-22.8	-15.7	-20.5												9	40	540	13	40	538	0	100				
06-09Z					-16.2	-21.5													15	110	746	18	110	742					
09-12Z	100	12	-22.4	-27.6	-17.8	-23.1				SN	2.5							T	16	110	913	21	110	915	8	30			
12 hr Max/Min					-15.7	-23.1																							
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	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000				
98	7				00-06L	0.0	0.0	0.0	-36.0	-32.8	2.5	0.0	0.0	T	120	23	1221	130	31	1230	4	30	00-06L	0.0	0.0				
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
															Max	Min	Avg	4	0.47	7.6									
															29.12	28.65	28.84												

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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				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000					
	29.12	982.2	8024	986.7	
	28.92	975.4	8033	979.9	9.4
	28.68	967.2	6044	971.6	
	28.65	966.1	1004	970.5	20.0

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)			
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z					-21.4	-24.3																					
15-18Z	90	13	-22.8	-27.9	-21.7	-23.3									T	17	100	1212	18	110	1224						
18-21Z					-20.6	-22.8																					
21-24Z	110	7	-21.1	-25.6	-18.3	-21.8									T	17	80	1917	21	90	1916						
12 hr Max/Min					-18.3	-24.3																					
00-03Z					-19.3	-21.0																					
03-06Z	80	8	-18.9	-25.1	-18.9	-20.3		0.5	2.5	SN					T	14	80	503	18	80	502						
06-09Z					-18.6	-21.9																					
09-12Z	80	12	-21.8	-26.4	-18.6	-22.0		1.5	3.5	5.0	SN																
12 hr Max/Min					-18.6	-22.0																					
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	<500	<1000		
88	10		-18.3	-24.3	-20.3	00-06L	0.0	0.0	0.0	-38.0	-36.4	21.0	0.0	3.5	T	100	19	1734	100	23	1734	8	10	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	4	0.51	6.0						
																29.31	28.80	29.07									

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

Note 2: Duration should be fractions of an hour.

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

03

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	3.0	28.80	971.4	3035	975.8
	1.5	29.02	978.7	3034	983.1
	0.5	29.16	983.6	3021	988.0
	1.5	29.31	988.7	1027	993.1

Station	
<1000	<3000
0.0	3.0
0.0	1.5
0.0	0.5
0.0	1.5

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04

		Station			
s)	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
6.0	29.40	991.5	3012	996.0	
5.0	29.42	992.2	0005	996.7	13.5
2.5	29.38	991.0	8002	995.5	
2.0	29.38	991.0	8005	995.5	2.3

j (hrs)	
<1000	<3000
1.0	6.0
2.2	5.0
0.0	2.5
0.0	2.0

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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					-27.5	-28.4																						
15-18Z	100	17	-29.0	-35.5	-27.6	-29.2			5.0	SN/IC	6.0			BS	4.9	T	24	80	1204	32	80	1243						
18-21Z					-29.0	-29.7												19	100	1905	23	80	2045					
21-24Z	90	22	-30.3	-36.1	-29.5	-30.8				IC	6.0					T	23	80	2344	28	80	2311	3					
12 hr Max/Min					-27.5	-30.8																						
00-03Z					-29.7	-31.3												25	80	231	29	80	230					
03-06Z	80	16	-29.6	-36.4	-29.1	-30.3				IC	6.0					T	22	80	309	26	80	539	2	45				
06-09Z					-29.1	-30.9												21	90	702	25	80	648					
09-12Z	90	13	-27.7	-36.2	-27.7	-30.5				IC	6.0					T	20	70	1048	24	80	1039	6	35				
12 hr Max/Min					-27.7	-31.3																						
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Dir	Spd	Temp	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time			Time	<500			
90	17	-27.5	-31.3	-28.8	-28.8	00-06L	0.0	0.0	5.0	-50.0	-58.0	24.0	0.0		4.9	T	80	25	231	80	32	1243	3	35	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																Max	Min	Avg	4	0.13	3.8							
																29.40	29.27	29.34										

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05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.40	991.4	3002	995.9	
	29.37	990.5	6005	995.1	1.7
	29.31	988.5	8013	993.1	
	29.27	987.1	8004	991.8	3.9

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

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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					-26.8	-27.7										15	80	1408	21	80	1205						
15-18Z	80	7	-26.5	-34.7	-26.2	-27.0			IC	6.0					T	13	80	1622	17	70	1639	2	35				
18-21Z					-25.6	-26.5										11	70	1906	13	70	1920						
21-24Z	0	0	-25.7	-30.6	-25.1	-26.5			SN/IC	6.0					T	5	70	2108	7	70	2106	8	20				
12 hr Max/Min					-25.1	-27.7																					
00-03Z					-24.1	-27.7										2	180	129	2	40	236						
03-06Z	0	0	-27.6	-32.9	-23.7	-27.6			SN	6.0					T	1	80	531	2	70	424	7	17				
06-09Z					-27.3	-29.7										2	70	720	2	160	814						
09-12Z	0	0	-29.0	-36.1	-27.3	-29.4			SN	2.3					T	2	60	1145	3	60	1142	0	17				
12 hr Max/Min					-23.7	-29.7																					
Avg Wind		Max		Min		Avg		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	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	Sky	est	Time	<500
80	2		-23.7	-29.7	-25.7	00-06L	0.0	0.0	0.0	-42.0	-43.6	20.3	0.0	0.0	T		80	15	1408	80	21	1205	4	17	06-12L	0.0	
																	Altimeter			Total	Daily	Daily					
																	Obs	Pres	Temp								
																	Taken	Diff	Diff								
																	29.24	29.22	29.24	4	0.02	6.0					

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: 06

Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.24	986.3	6002	990.9	
5.0	29.24	986.3	3001	990.8	4.2
6.0	29.24	986.3	8002	990.8	
2.4	29.22	985.4	6007	990.0	1.7

(hrs)	
<1000	<3000
0.0	0.0
0.0	5.0
0.0	6.0
0.0	2.4

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Time	Winds		Temp	Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)	
	Dir	Spd			Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500
12-15Z					-27.5	-28.9									6	20	1444	8	20	1433					
15-18Z	0	0	-27.9	-33.3	-27.6	-28.8									6	20	1519	8	20	1508	0				
18-21Z					-25.7	-28.2									9	20	1850	10	20	1850					
21-24Z	0	0	-26.2	-30.4	-24.7	-29.1									3	180	2228	5	210	2227	0				
12 hr Max/Min					-24.7	-29.1																			
00-03Z					-22.3	-29.1									10	40	248	16	40	247					
03-06Z	40	9	-21.4	-29.8	-21.4	-27.2									12	40	304	18	30	301	0				
06-09Z					-20.2	-26.7									20	40	645	25	40	709					
09-12Z	0	0	-23.8	-28.5	-20.3	-26.4									7	30	859	12	30	857	8	60			
12 hr Max/Min					-20.2	-29.1																			
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	Cover	CIG	Time	<500	
40	2		-20.2	-29.1	-23.2	00-06L	0.0	0.0	0.0	-43.0	-45.4	0.0	0.0	0.00	40	20	645	40	25	709	2	60	00-06L	0.0	
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
															29.14	28.91	29.03	4	0.23	8.9					

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07

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.14	982.9	8017	987.6	
	29.08	980.7	6008	985.2	5.6
	28.98	977.5	8007	981.9	
	28.91	974.9	8014	979.4	10.5

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

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Time	Winds			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					-16.5	-24.2										14	40	1434	19	40	1433					
15-18Z	0	0	-20.0	-28.7	-17.9	-25.8										8	30	1519	13	20	1519	3	60			
18-21Z					-14.4	-23.5										13	40	1911	17	40	1910					
21-24Z	120	8	-12.7	-19.3	-12.4	-17.2										12	120	2344	19	120	2343	6	45			
12 hr Max/Min					-12.4	-25.8																				
00-03Z					-11.4	-15.9										17	130	120	22	130	122					
03-06Z	120	10	-10.7	-17.7	-10.4	-11.8										19	130	418	24	140	439	5	45			
06-09Z					-10.4	-15.5										11	110	846	16	100	707					
09-12Z	90	10	-16.2	-22.2	-12.7	-17.1										18	80	1111	23	80	1110	7	45			
12 hr Max/Min					-10.4	-17.1																				
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	Max Temp	Min Temp	Avg Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500		
109	7	-10.4	-25.8	-15.5	00-06L	0.0	0.0	0.0			0.0	0.0	0.0	0.00	130	19	418	140	24	439	5	45	00-06L	0.0		
																	Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																	28.83	28.75	28.79	4	0.08	15.4				
																	12-18L	0.0	0.0	0.0						
																	18-24L	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	28.80	971.4	8019	975.8	
	28.75	969.5	8005	973.9	11.2
	28.76	970.0	3005	974.3	
	28.83	972.4	3015	976.7	2.5

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

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Time	Winds			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					-13.6	-16.2									14	80	1307	18	100	1303										
15-18Z	90	15	-21.5	-26.2	-14.6	-21.9			0.8	SN			0.8	T	22	80	1733	28	80	1732	6	20								
18-21Z					-21.2	-24.2									32	130	2014	44	120	2012										
21-24Z	140	26	-22.4	-27.1	-22.4	-24.0	3.5	4.0	6.0	SN			3.0	T	30	130	2119	37	130	2149	8	10								
12 hr Max/Min					-13.6	-24.2																								
00-03Z					-21.2	-22.7									25	130	15	33	130	14										
03-06Z	90	7	-21.7	-28.0	-20.7	-22.7			3.0	SN			4.0	T	16	80	259	19	80	259	1	30								
06-09Z					-19.8	-22.5									16	70	701	20	70	648										
09-12Z	0	0	-19.2	-24.3	-17.5	-21.5				SN			2.8	T	12	30	941	19	40	941	8	20								
12 hr Max/Min					-17.5	-22.7																								
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	Cover	CIG	Time	<500	<1000					
117	12	-13.6	-24.2	-17.1	00-06L	0.0	0.0	0.8	-42.0	-43.6	10.5	0.0	8.3	T	130	32	2014	120	44	2012	6	10	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.15	10.6									
																29.14	28.99	29.07												

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	28.99	977.8	3035	982.1	
3.0	29.10	981.7	1023	986.1	12.2
	29.14	982.9	5000	987.2	
3.4	29.04	979.5	6020	984.0	7.1

y (hrs)	
<1000	<3000
0.0	3.0
0.0	3.0
0.0	0.0
0.0	3.4

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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					-18.2	-20.0																						
15-18Z	80	10	-19.9	-25.6	-19.6	-22.2									T	3	90	1450	4	90	1450							
18-21Z					-19.9	-25.7																						
21-24Z	100	16	-25.5	-30.4	-25.0	-26.3	0.2	3.0	5.0	SN/SG	6.0																	
12 hr Max/Min					-18.2	-26.3																						
00-03Z					-25.0	-27.0																						
03-06Z	90	15	-28.7	-34.8	-27.0	-28.7		3.0	5.0	SN/SG	6.0																	
06-09Z					-25.9	-28.7																						
09-12Z	80	17	-26.4	-33.1	-26.1	-26.5			5.0	SN	6.0																	
12 hr Max/Min					-25.0	-28.7																						
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			<500	<1000			
88	15	-18.2	-28.7	-21.7	00-06L	0.0	0.0	0.0	-47.0	-52.6	24.0	0.0	8.8	0.01	80	25	745	80	29	745	8	20	00-06L	0.0				
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																Max	Min	Avg				12-18L	0.0					
																28.93	28.87	28.89	4	0.06	10.5	18-24L	0.0					

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
6.0	28.93	975.8	6019	980.2	
5.0	28.87	973.6	6002	978.1	8.1
	28.87	973.6	0005	978.1	
	28.90	974.8	2010	979.3	4.7

y (hrs)	
<1000	<3000
0.0	6.0
0.0	5.0
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					-25.3	-26.6																					
15-18Z	70	14	-24.8	-31.2	-24.8	-25.3			6.0	SN	6.0												6	30			
18-21Z					-24.3	-25.1																					
21-24Z	0	0	-24.6	-29.2	-24.2	-26.9			0.5	SN/IC	6.0												0	30			
12 hr Max/Min					-24.2	-26.9																					
00-03Z					-24.4	-31.1																					
03-06Z	0	0	-28.4	-33.7	-26.7	-28.9				IC	2.8												0				
06-09Z					-27.1	-29.4																					
09-12Z	0	0	-27.6	-32.2	-26.2	-30.2																	7	70			
12 hr Max/Min					-24.4	-31.1																					
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	Time	<500	<1000	
70	4	-24.2	-31.1	-26.5	00-06L	0.0	0.0	6.0	-44.0	-47.2	14.8	0.0	0.0	0.0	80	22	1213	80	25	1212				3	30	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																28.93	28.90	28.91	4	0.03	6.9						

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	28.90	974.8	8003	979.2	
	28.91	975.1	3002	979.7	1.5
	28.91	974.9	1003	979.5	
	28.93	975.8	1006	980.3	1.0

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

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12

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.93	975.6	8002	980.2	
2.5	28.98	977.5	1004	982.0	2.4
1.5	29.00	978.2	6007	982.6	
	29.01	978.5	7001	983.0	2.7

Station	
<1000	<3000
0.0	0.0
2.0	2.5
1.0	1.5
0.0	0.0

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					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					-25.6	-27.3																					
15-18Z	90	13	-28.1	-33.3	-25.7	-28.2			2.0	SN	4.2																
18-21Z					-25.9	-28.2																					
21-24Z	80	13	-25.1	-30.7	-25.1	-27.5			2.0	SN	3.0																
12 hr Max/Min					-25.1	-28.2																					
00-03Z					-24.7	-26.9																					
03-06Z	120	3	-24.4	-29.4	-24.2	-25.8			6.0	SN/IC	6.0																
06-09Z					-23.7	-27.8																					
09-12Z	70	9	-24.8	-31.2	-23.5	-24.8			2.2	SN/IC	6.0																
12 hr Max/Min					-23.5	-27.8																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust								
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	Ceiling <500			
84	10				00-06L	0.0	0.0	2.0	-44.0	-47.2	19.2	0.0	0.0	T	80	18	1204	80	25	1203	8	30	00-06L	0.0			
																Altimeter											
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																29.05	29.00	29.02	4	0.05	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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Station	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.00	978.2	5003	982.6	
	29.00	978.2	8002	982.7	0.7
	29.03	979.0	0002	983.5	
	29.05	979.9	3009	984.4	1.4

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

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Time	Winds		Temp	Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd			Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-24.4	-25.2										11	70	1224	13	70	1224									
15-18Z	0	0	-24.7	-30.8	-24.4	-26.4				IC	6.0				T	5	20	1508	7	20	1508	5	20							
18-21Z					-24.2	-26.9										3	70	2021	3	70	2021									
21-24Z	30	6	-24.6	-31.9	-24.6	-26.7				IC	2.3				T	7	30	2350	10	30	2349	2	20							
12 hr Max/Min					-24.2	-26.9																								
00-03Z					-24.3	-25.0										7	40	233	10	40	245									
03-06Z	40	10	-23.4	-29.8	-23.4	-24.6										10	30	406	13	30	406	0								
06-09Z					-22.7	-23.4										19	40	834	24	40	828									
09-12Z	40	14	-23.3	-30.3	-22.2	-23.7										18	40	1031	22	40	1044	6	60							
12 hr Max/Min					-22.2	-25.0																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
38	8	-22.2	-26.9	-23.8	00-06L	0.0	0.0	0.0	-38.0	-36.4	8.3	0.0	0.0	T	40	19	834	40	24	828	3	20	00-06L	0.0						
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
															Max	Min	Avg	4	0.12	4.7										
															29.13	29.01	29.08													

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)			
1.0	29.09	981.2	1007	985.7	
0.5	29.13	982.4	3004	986.9	4.2
	29.09	981.0	6011	985.6	
	29.01	978.3	7012	982.8	1.6

j (hrs)	
<1000	<3000
0.0	1.0
0.0	0.5
0.0	0.0
0.0	0.0

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15

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.86	973.2	6028	977.6	
2.5	28.76	969.9	6016	974.2	12.5
4.0	28.71	968.5	6013	972.8	
1.6	28.74	969.2	3012	973.6	9.1

j (hrs)	
<1000	<3000
0.0	0.0
0.0	2.5
0.0	4.0
1.5	1.6

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16

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	5.0	28.91	974.9	1037	979.5
	2.5	28.98	977.5	3008	982.0
		29.13	982.4	3031	987.0
	1.5	29.31	988.7	3029	993.2

Station	
<1000	<3000
3.0	5.0
0.0	2.5
0.0	0.0
0.5	1.5

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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					-28.1	-29.6	6.0	6.0	6.0	SN					6.0	T	27	80	1347	31	80	1347	8	15		
15-18Z	80	19	-26.2	-31.4	-25.7	-28.1											24	80	1734	30	80	1746				
18-21Z					-21.0	-27.4											23	80	1920	31	80	1806				
21-24Z	90	8	-21.2	-26.7	-20.7	-24.0	5.0	5.0	6.0	SN				6.0			22	80	2143	27	80	2143	8	15		
12 hr Max/Min					-20.7	-29.6																				
00-03Z					-17.5	-21.2											10	110	235	15	110	235				
03-06Z	90	12	-16.1	-21.4	-15.2	-17.5			3.5	SN/IC				6.0			16	100	541	20	90	436	8	25		
06-09Z					-16.2	-18.7											22	120	817	34	130	816				
09-12Z	70	17	-22.1	-27.7	-17.8	-22.2			5.5	SN/IC				6.0			27	130	924	33	130	944	8	70		
12 hr Max/Min					-15.2	-22.2																				
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000	
81	14	-15.2	-29.6	-20.0	00-06L	6.0	6.0	6.0	-49.0	-56.2	24.0	0.0	16.5	T	80	27	1347	130	34	816			8	15	00-06L	0.0
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	4	0.06	14.4					
																29.40	29.34	29.38								

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)			
	4.0	29.38	990.9	3006	995.6
	6.0	29.40	991.5	3003	996.0
	3.0	29.34	989.7	6010	994.2
		29.39	991.2	3011	995.6

Dir (hrs)	
<1000	<3000
0.0	4.0
0.0	6.0
0.0	3.0
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					-18.3	-21.8									20	80	1202	26	100	1214												
15-18Z	80	14	-17.2	-28.7	-15.9	-18.1			1.5	IC		3.5			20	130	1601	25	110	1523	3	110										
18-21Z					-16.9	-22.7									19	70	2003	23	70	1949												
21-24Z	90	6	-16.1	-29.9	-16.1	-21.1									17	70	2208	23	70	2206	3											
12 hr Max/Min					-15.9	-22.7																										
00-03Z					-16.1	-18.7									9	80	239	12	70	222												
03-06Z	80	9	-16.3	-31.1	-16.0	-17.0									13	70	510	15	70	509	0											
06-09Z					-16.1	-20.5									12	80	646	15	80	643												
09-12Z	30	5	-18.3	-22.4	-18.2	-20.2									8	40	1149	10	30	1149	0											
12 hr Max/Min					-16.0	-20.5																										
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	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
75	9			-15.9	-22.7	-18.2	00-06L	0.0	0.0	1.5	-37.0	-34.6	3.5	0.0	1.5	T	80	20	1202	100	26	1214	2	110	00-06L	0.0						
																	Altimeter															
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																	29.43	29.29	29.38	4	0.14	6.8										

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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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.41	991.9	3002	996.4	
	29.43	992.6	0002	997.0	1.1
	29.37	990.5	6012	994.9	
	29.29	987.8	8013	992.2	3.4

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)		
	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					-18.2	-26.2										11	20	1435	14	30	1445					
15-18Z	0	0	-22.3	-27.1	-20.4	-27.1										9	20	1500	11	20	1459	0				
18-21Z					-21.2	-22.6										3	70	2030	4	80	2028					
21-24Z	100	8	-20.6	-26.9	-18.4	-21.5										8	100	2349	9	100	2349	0				
12 hr Max/Min					-18.2	-27.1																				
00-03Z					-18.6	-21.2										9	100	147	10	100	207					
03-06Z	0	0	-18.8	-27.8	-16.6	-20.0										13	70	441	16	70	439	0				
06-09Z					-18.6	-23.8										5	70	823	6	80	821					
09-12Z	50	3	-21.6	-27.6	-20.3	-28.8										5	50	1145	7	40	1144	0				
12 hr Max/Min					-16.6	-28.8																				
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	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500		
87	3	-16.6	-28.8	-20.7	00-06L	0.0	0.0	0.0	-38.0	-36.4	0.0	0.0	0.0	0.00	70	13	441	70	16	439	0		00-06L	0.0		
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg	4	0.09	12.2						
															29.14	29.05	29.08									

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.14	982.6	8021	987.1	
	29.08	980.7	6004	985.1	11.9
	29.05	979.7	6002	984.1	
	29.06	980.0	0001	984.5	7.8

Dir (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					-20.3	-22.7										14	70	1410	18	70	1439											
15-18Z	60	4	-21.2	-28.1	-20.7	-22.2										14	70	1527	16	70	1549	0										
18-21Z					-19.1	-24.5										4	60	1757	5	60	1758											
21-24Z	20	5	-23.6	-28.1	-21.4	-23.7										6	20	2308	9	30	2307	0										
12 hr Max/Min					-19.1	-24.5																										
00-03Z					-23.5	-25.5										8	20	107	9	20	115											
03-06Z	90	16	-24.3	-29.4	-22.8	-26.4										16	90	546	23	80	545	2										
06-09Z					-24.0	-26.5										23	70	745	29	70	745											
09-12Z	100	11	-25.4	-32.7	-23.7	-27.1				IC	5.6				T	17	80	908	21	90	904	0										
12 hr Max/Min					-22.8	-27.1																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
81	9			-19.1	-27.1	-21.8	00-06L	0.0	0.0	0.0	-43.0	-45.4	5.6	0.0	0.0	T	70	23	745	70	29	745	1		00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.15	8.0										
																	29.09	28.94	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.

: 20

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.98	977.5	6017	982.0	
	28.94	976.1	6005	980.6	4.6
	28.95	976.5	0005	980.9	
	29.09	981.0	1022	985.5	1.0

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-24.0	-28.2										15	90	1218	20	80	1217									
15-18Z	70	11	-25.4	-34.7	-23.0	-25.7				IC	2.5				T	12	80	1745	16	80	1744	0								
18-21Z					-23.3	-27.1										17	70	1818	19	80	1834									
21-24Z	0	0	-29.7	-35.6	-24.4	-29.7										5	160	2350	7	170	2349	8	70							
12 hr Max/Min					-23.0	-29.7																								
00-03Z					-21.0	-29.5										5	200	204	7	170	202									
03-06Z	40	18	-19.4	-28.4	-18.4	-22.8										20	40	549	25	40	548	6	100							
06-09Z					-16.7	-19.6										26	170	816	31	170	815									
09-12Z	120	12	-17.1	-31.0	-17.1	-19.1										22	140	858	27	150	858	8	100							
12 hr Max/Min					-16.7	-29.5																								
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	<500					
70	10		-16.7	-29.7	-21.0	00-06L	0.0	0.0	0.0	-42.0	-43.6	2.5	0.0	0.0	T	170	26	816	170	31	815	6	70	00-06L	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.06	13.0									
																29.24	29.18	29.21												

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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.

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s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.18	984.1	1021	988.6	
	29.23	985.8	0001	990.5	9.7
	29.18	984.3	6010	988.7	
	29.24	986.1	0004	990.7	5.1

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-17.2	-24.7																								
15-18Z	90	20	-26.5	-32.6	-22.8	-26.9																								
18-21Z					-25.1	-29.3																								
21-24Z	80	20	-28.9	-36.6	-28.3	-29.4																								
12 hr Max/Min					-17.2	-29.4																								
00-03Z					-28.1	-30.3																								
03-06Z	100	15	-31.6	-38.1	-28.3	-32.7				IC	3.3																			
06-09Z					-25.7	-31.3																								
09-12Z	40	10	-24.8	-30.8	-24.7	-28.4				IC	2.4																			
12 hr Max/Min					-24.7	-32.7																								
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	Avg	Low-est	Time	<500	<1000				
82	16		-17.2	-32.7	-22.4	00-06L	0.0	0.0	0.0	-52.0	-61.6	5.7	0.0	0.0	T	80	27	1622	80	37	1931	1		00-06L	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.03	15.5									
																29.31	29.28	29.30												

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

Note 2: Duration should be fractions of an hour.

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

: 22

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.31	988.7	3012	993.2	
	29.30	988.1	8002	992.7	2.3
	29.30	988.1	5005	992.8	
	29.28	987.5	8004	992.1	1.4

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-24.8	-31.7									9	40	1157	13	40	1159										
15-18Z	30	8	-25.8	-30.3	-25.8	-30.0									11	40	1741	16	40	1740	0									
18-21Z					-25.8	-27.6									9	40	1846	11	40	1846										
21-24Z	40	4	-24.7	-29.0	-24.7	-27.4									5	20	2150	9	20	2150	7	40								
12 hr Max/Min					-24.7	-31.7																								
00-03Z					-23.6	-24.6									9	40	110	13	50	109										
03-06Z	0	0	-25.7	-30.2	-23.8	-29.1				SN	3.7				5	170	528	8	50	540	4	40								
06-09Z					-23.7	-28.6									6	150	714	7	40	749										
09-12Z	0	0	-25.7	-30.6	-23.7	-27.0				SN	2.0				4	70	1140	6	70	1139	8	40								
12 hr Max/Min					-23.6	-29.1																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time	Time				
33	3	-23.6	-31.7	-26.3	00-06L	0.0	0.0	0.0	-44.0	-47.2	5.7	0.0	0.0	T	40	11	1741	40	16	1740	5	40	00-06L	0.0	0.0					
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
															Max	Min	Avg	4	0.13	8.1										
															29.24	29.11	29.16													

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	29.24	986.3	8007	991.0	
	29.17	983.9	8014	988.4	4.2
	29.11	981.9	5007	986.4	
	29.11	981.7	3003	986.3	5.8

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

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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					-21.3	-26.0																								
15-18Z	90	12	-22.8	-28.3	-21.6	-25.3									T	23	80	1531	28	80	1530	7	15							
18-21Z					-22.9	-26.8																								
21-24Z	90	11	-23.4	-30.6	-22.9	-28.6									T	20	90	2148	27	110	2143	7	12							
12 hr Max/Min					-21.3	-28.6																								
00-03Z					-21.2	-23.9										15	90	29	19	90	28									
03-06Z	0	0	-25.3	-29.8	-21.7	-26.2				0.5	SN/IC	6.0			T	9	20	419	12	360	414	8	30							
06-09Z					-22.6	-25.5																								
09-12Z	0	0	-21.3	-25.7	-21.3	-26.9									0.03	16	40	915	21	40	914	8	25							
12 hr Max/Min					-21.2	-26.9																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000					
90	6	-21.2	-28.6	-23.7	00-06L	0.0	0.0	0.0	-46.0	-50.8	24.0	0.0	0.0	0.03	80	23	1531	80	28	1530	8	12	00-06L	0.0	0.0					
					06-12L	0.0	0.0	1.5						Altimeter								06-12L	0.0							
					12-18L	0.0	0.0	0.5						Max								12-18L	0.0							
					18-24L	0.0	0.0	2.0						Total Obs Taken								18-24L	0.0							
													29.16								4		0.07		7.4					

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

Note 2: Duration should be fractions of an hour.

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

: 24

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
4.0	29.16	983.4	6009	987.9	
3.8	29.14	982.9	6005	987.4	1.0
	29.14	982.9	3002	987.4	
2.0	29.09	981.2	1003	985.6	0.5

y (hrs)	
<1000	<3000
0.0	4.0
0.0	3.8
0.0	0.0
0.0	2.0

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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					-19.9	-21.4										17	80	1418	21	80	1439					
15-18Z	140	24	-24.6	-28.9	-20.8	-25.0		2.0	6.0	SN		6.0		BS	2.3	T	24	130	1750	31	140	1748	8	8		0.3
18-21Z					-25.2	-30.5										29	80	2018	39	80	2046					
21-24Z	90	20	-32.2	-38.1	-28.4	-33.1	3.0	4.5	6.0	SN		4.5		BS	6.0	T	31	80	2313	36	80	2337	8	8		1.0
12 hr Max/Min					-19.9	-33.1																				
00-03Z					-28.0	-32.4										31	80	2	37	80	8					
03-06Z	0	0	-24.7	-31.7	-24.1	-27.9			1.5	IC		5.5		BS	1.5	T	17	80	330	21	80	309	2	80		
06-09Z					-24.5	-30.1										8	100	700	10	110	733					
09-12Z	30	8	-24.7	-29.0	-24.6	-30.7				SN/IC		6.0				T	12	30	1141	16	30	1140	8	50		
12 hr Max/Min					-24.1	-32.4																				
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	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	
106	13	-19.9	-33.1	-24.3		00-06L	0.0	2.0	6.0	-54.0	-65.2	22.0	0.0	9.8	T	80	31	2313	80	39	2046	7	8	00-06L	0.0	
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg	4	0.19	13.2						
															29.39	29.20	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.

: 25

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
6.0	29.20	984.8	1021	989.3	
4.0	29.33	989.2	1013	993.8	6.3
	29.39	991.2	3006	995.8	
	29.39	991.2	8001	995.9	10.0

y (hrs)	
<1000	<3000
0.3	6.0
1.0	4.0
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					-22.1	-28.0										20	40	1419	24	40	1436											
15-18Z	40	9	-21.6	-25.6	-20.8	-22.1									T	17	40	1545	22	40	1518	8	45									
18-21Z					-16.5	-21.3										15	40	1849	22	50	1848											
21-24Z	90	11	-18.8	-23.6	-16.6	-20.9									T	11	90	2345	14	130	2240	8	45									
12 hr Max/Min					-16.5	-28.0																										
00-03Z					-15.3	-18.8										17	80	117	22	80	116											
03-06Z	90	15	-24.0	-29.1	-15.1	-24.0									T	22	80	541	27	80	541	8	50									
06-09Z					-21.8	-24.4										20	80	618	24	80	850											
09-12Z	80	22	-22.8	-30.8	-22.5	-24.7									T	25	80	1118	31	80	1134	8	50									
12 hr Max/Min					-15.1	-24.7																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
79	14			-15.1	-28.0	-19.4	00-06L	0.0	0.0	0.0	-44.0	-47.2	24.0	0.0	0.0	T	80	25	1118	80	31	1134	8	45	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.06	12.9										
																	29.40	29.34	29.38													

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

Note 2: Duration should be fractions of an hour.

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

: 26

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.34	989.7	6002	994.2	
	29.38	990.9	0015	995.3	1.7
	29.39	991.2	3008	995.8	
	29.40	991.7	6010	996.1	0.5

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					-21.2	-29.6																					
15-18Z	90	21	-27.8	-35.6	-25.2	-29.4									T	30	80	1506	37	80	1740	8	80				
18-21Z					-22.2	-30.9										23	90	1813	29	100	1850						
21-24Z	110	6	-25.9	-34.7	-21.2	-26.4										13	80	2122	16	80	2121	6	80				
12 hr Max/Min					-21.2	-30.9																					
00-03Z					-19.2	-26.2										8	90	150	10	90	42						
03-06Z	40	16	-23.0	-26.8	-20.9	-26.9										16	40	538	19	40	550	0	90				
06-09Z					-22.4	-27.2										15	40	558	18	40	603						
09-12Z	0	0	-26.2	-30.6	-25.3	-26.7									T	2	10	1147	4	30	1147	0					
12 hr Max/Min					-19.2	-27.2																					
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	<500	<1000		
75	11		-19.2	-30.9	-23.1	00-06L	0.0	0.0	0.0	-49.0	-56.2	7.8	0.0	0.0	T	80	30	1506	80	37	1740	4	80	00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	4	0.05	11.7						
																29.45	29.40	29.42									

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

Note 2: Duration should be fractions of an hour.

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

: 27

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.40	991.5	8007	996.1	
	29.45	993.2	0005	997.8	2.3
	29.40	991.7	8003	996.3	
	29.43	992.6	0005	997.1	0.9

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					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					-24.0	-27.1																								
15-18Z	0	0	-25.2	-29.5	-24.4	-26.1									T	6	90	1334	7	90	1333									
18-21Z					-24.4	-26.0																								
21-24Z	0	0	-25.5	-29.8	-24.9	-25.7																								
12 hr Max/Min					-24.0	-27.1																								
00-03Z					-24.0	-25.9																								
03-06Z	100	6	-24.9	-29.8	-24.6	-26.2																								
06-09Z					-24.2	-27.7																								
09-12Z	100	9	-29.6	-35.1	-27.4	-30.5									T	10	100	1148	13	90	1104	4	30							
12 hr Max/Min					-24.0	-30.5																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
100	4	-24.0	-30.5	-26.2	00-06L	0.0	0.0	0.0	-43.0	-45.4	6.0	0.0	0.0	0.0	T	90	10	726	90	13	1104	1	30	00-06L	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.08	6.5									
																29.42	29.34	29.38												

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		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.42	992.2	8001	996.8	
	29.40	991.7	5002	996.3	1.5
	29.34	989.7	8004	994.3	
	29.34	989.3	5001	994.1	3.3

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					-26.6	-29.7										14	100	1447	17	100	1446												
15-18Z	110	14	-31.2	-36.5	-27.3	-31.9									T	17	110	1736	22	100	1707	0											
18-21Z					-28.6	-32.4										22	80	2039	24	80	2039												
21-24Z	90	14	-28.2	-35.4	-26.6	-28.8									T	22	80	2122	25	80	2113	0											
12 hr Max/Min					-26.6	-32.4																											
00-03Z					-24.9	-33.6										15	80	42	19	90	39												
03-06Z	0	0	-27.3	-33.3	-27.4	-33.0									T	11	110	314	14	110	313	0											
06-09Z					-24.5	-31.7										10	50	847	14	40	839												
09-12Z	120	11	-24.8	-36.1	-24.4	-30.2										12	120	1150	15	130	1150	0											
12 hr Max/Min					-24.4	-33.6																											
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	Avg	Low-est	Time	<500	<1000						
106	10			-24.4	-33.6	-27.5	00-06L	0.0	0.0	0.0	-50.0	-58.0	5.5	0.0	0.0	T	80	22	2039	80	25	2113	0		00-06L	0.0							
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																	Max			29.37		29.32		29.35		4		0.05		9.2			

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

Note 2: Duration should be fractions of an hour.

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

: 29

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.32	988.8	6002	993.5	
	29.37	990.5	1007	995.2	1.2
	29.36	990.2	0000	994.8	
	29.36	990.3	0004	994.9	1.0

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

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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					-24.4	-25.6										12	130	1202	18	140	1202												
15-18Z	0	0	-26.8	-34.1	-24.5	-31.1										6	50	1732	8	60	1731	0											
18-21Z					-26.6	-29.7										5	80	2006	6	80	2005												
21-24Z	0	0	-29.1	-34.4	-26.4	-29.0				IC	2.8				T	4	20	2327	6	30	2312	0											
12 hr Max/Min					-24.4	-31.1																											
00-03Z					-27.7	-30.9										6	20	247	9	30	235												
03-06Z	80	3	-28.3	-33.1	-26.8	-29.0				IC	6.0				T	6	30	300	9	30	259	0											
06-09Z					-27.9	-29.2										4	50	850	5	50	849												
09-12Z	0	0	-30.0	-35.0	-29.0	-30.0				IC	6.0				T	4	50	857	4	50	1041	0											
12 hr Max/Min					-26.8	-30.9																											
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	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500						
80	1					-24.4	-31.1	-26.6	00-06L	0.0	0.0	0.0	-41.0	-41.8	14.8	0.0	0.0	T	130	12	1202	140	18	1202	0		00-06L	0.0					
																		Altimeter															
																		Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																		29.40	29.37	29.38	4	0.03	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.

30

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.37	990.5	1006	995.1	
	29.38	991.0	1006	995.6	0.5
	29.38	990.9	5000	995.4	
	29.40	991.5	5000	996.1	1.2

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

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Monthly Climatology / Page 1

Month:
JUN 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	-10.0	-16.9	-12.3	1.00	4.50			5.50	2.00	6.00	1.00		9.00	2.00	6.00	1.00		9.00	14.08		9.00	23.08	T	20	138	40	150	
2	-15.5	-23.1	-18.0																2.50			2.50	T	7	98	23	120	
3	-18.3	-24.3	-20.3				1.50	1.50			0.50	3.50	4.00			2.50	5.00	7.50	21.00		3.50	24.50	T	10	88	19	100	
4	-19.3	-29.9	-22.8		2.20		0.80	3.00	4.00	3.80	0.50	2.00	10.30	6.00	6.00	6.00	6.00	24.00	24.00		8.75	32.75	0.01	14	107	27	150	
5	-27.5	-31.3	-28.8											5.00				5.00	24.00		4.92	28.92	T	17	90	25	80	
6	-23.7	-29.7	-25.7																20.25			20.25	T	2	80	15	80	
7	-20.2	-29.1	-23.2																					2	40	20	40	
8	-10.4	-25.8	-15.5																					7	109	19	130	
9	-13.6	-24.2	-17.1		3.50			3.50		4.00			4.00	0.75	6.00	3.00		9.75	10.50		8.25	18.75	T	12	117	32	130	
10	-18.2	-28.7	-21.7		0.20			0.20		3.00	3.00		6.00		5.00	5.00	5.00	15.00	24.00		8.75	32.75	0.01	15	88	25	80	
11	-24.2	-31.1	-26.5											6.00	0.50			6.50	14.75			14.75	T	4	70	22	80	
12	-21.6	-28.7	-24.0		2.00	1.50		3.50		2.50	4.00		6.50		4.50	6.00	4.00	14.50	18.83		3.92	22.75	0.02	12	103	30	140	
13	-23.5	-28.2	-25.1											2.00	2.00	6.00	2.20	12.20	19.17			19.17	T	10	84	18	80	
14	-22.2	-26.9	-23.8																8.33			8.33	T	8	38	19	40	
15	-16.7	-25.0	-19.5				1.75	1.75		1.50	6.00	6.00	13.50		1.90	6.00	6.00	13.90	14.00		1.75	15.75	0.10	14	69	22	80	
16	-23.3	-31.0	-25.9	5.00	3.50	1.50	2.50	12.50	5.00	6.00	6.00	6.00	23.00	6.00	6.00	6.00	6.00	24.00	24.00		24.00	48.00	T	19	93	30	80	
17	-15.2	-29.6	-20.0	6.00	5.00			11.00	6.00	5.00			11.00	6.00	6.00	3.50	5.50	21.00	24.00		16.50	40.50	T	14	81	27	80	
18	-15.9	-22.7	-18.2											1.50				1.50	3.50		1.50	5.00	T	9	75	20	80	
19	-16.6	-28.8	-20.7																					3	87	13	70	
20	-19.1	-27.1	-21.8																5.58			5.58	T	9	81	23	70	
21	-16.7	-29.7	-21.0																2.50			2.50	T	10	70	26	170	
22	-17.2	-32.7	-22.4																5.67			5.67	T	16	82	27	80	
23	-23.6	-31.7	-26.3																5.67			5.67	T	3	33	11	40	
24	-21.2	-28.6	-23.7												1.50	0.50	2.00	4.00	24.00			24.00	0.03	6	90	23	80	
25	-19.9	-33.1	-24.3		3.00			3.00	2.00	4.50			6.50	6.00	6.00	1.50		13.50	22.00		9.75	31.75	T	13	106	31	80	
26	-15.1	-28.0	-19.4																24.00			24.00	T	14	79	25	80	
27	-19.2	-30.9	-23.1																7.83			7.83	T	11	75	30	80	
28	-24.0	-30.5	-26.2																6.00			6.00	T	4	100	10	90	
29	-24.4	-33.6	-27.5																5.50			5.50	T	10	106	22	80	
30	-24.4	-31.1	-26.6																14.83			14.83	T	1	80	12	130	
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	
-10.0	-33.6	-22.4	12.0	23.9	3.0	6.6	19.0	36.3	21.0	17.5	41.3	51.4	47.0	41.7	390.5	0.0	100.6	491.1	0.17	91	10	150	40	46

Temp (C)		Total Hrs =or< 1600:		Total Hrs =or< 4800:		Total Hrs < 9999:	
Average		45.5		93.8		181.4	
Max	Min	Total Days =or< 1600:	Total Days =or< 4800:	Total Days < 9999:			
-19.4	-28.4	10	10	15			
		% Hrs =or< 1600:	% Hrs =or< 4800:	% Hrs < 9999:			
		6.3%	13.0%	25.2%			
		% Days =or< 1600:	% Days =or< 4800:	% Days < 9999:			
		33.3%	33.3%	50.0%			

Total Hrs	
sn/sg/ic:	390.5
fg/br:	0.0
bs:	100.6
Total Days	
sn/sg/ic:	27
fg/br:	0
bs:	12



Max Gust
46
31
23
35
32
21
25
24
44
29
25
36
25
24
29
38
34
26
16
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31
37
16
28
39
31
37
13
25
18

Station:
NZCM

Monthly Climatology / Page 2

Month:
JUN 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	15															5.50	2.00		7.50	29.27	29.02	29.18	4	0.25	6.9	-32.0	
2	4	30																			29.12	28.65	28.84	4	0.47	7.6	-36.0	
3	8	10															3.00	1.50	0.50	1.50	6.50	29.31	28.80	29.07	4	0.51	6.0	-38.0
4	8	9							1.00	2.20						6.00	5.00	2.50	2.00	15.50	29.42	29.38	29.40	4	0.04	10.6	-49.0	
5	3	35																			29.40	29.27	29.34	4	0.13	3.8	-50.0	
6	4	17															5.00	6.00	2.40	13.40	29.24	29.22	29.24	4	0.02	6.0	-42.0	
7	2	60																			29.14	28.91	29.03	4	0.23	8.9	-43.0	
8	5	45																			28.83	28.75	28.79	4	0.08	15.4	-37.0	
9	6	10														3.00	3.00		3.40	9.40	29.14	28.99	29.07	4	0.15	10.6	-42.0	
10	8	20														6.00	5.00			11.00	28.93	28.87	28.89	4	0.06	10.5	-47.0	
11	3	30																			28.93	28.90	28.91	4	0.03	6.9	-44.0	
12	8	3		0.50	0.50			1.00		2.00	1.00						2.50	1.50		4.00	29.01	28.93	28.98	4	0.08	7.1	-43.0	
13	8	30																			29.05	29.00	29.02	4	0.05	4.7	-44.0	
14	3	20														1.00	0.50			1.50	29.13	29.01	29.08	4	0.12	4.7	-38.0	
15	7	5									1.50	1.50					2.50	4.00	1.60	8.10	28.86	28.71	28.77	4	0.15	8.3	-41.0	
16	8	5							3.00			0.50	3.50			5.00	2.50		1.50	9.00	29.31	28.91	29.08	4	0.40	7.7	-51.0	
17	8	15														4.00	6.00	3.00		13.00	29.40	29.34	29.38	4	0.06	14.4	-49.0	
18	2	110																			29.43	29.29	29.38	4	0.14	6.8	-37.0	
19	0																				29.14	29.05	29.08	4	0.09	12.2	-38.0	
20	1																				29.09	28.94	28.99	4	0.15	8.0	-43.0	
21	6	70																			29.24	29.18	29.21	4	0.06	13.0	-42.0	
22	1																				29.31	29.28	29.30	4	0.03	15.5	-52.0	
23	5	40																			29.24	29.11	29.16	4	0.13	8.1	-44.0	
24	8	12														4.00	3.80		2.00	9.80	29.16	29.09	29.13	4	0.07	7.4	-46.0	
25	7	8							0.25	1.00			1.25			6.00	4.00			10.00	29.39	29.20	29.33	4	0.19	13.2	-54.0	
26	8	45																			29.40	29.34	29.38	4	0.06	12.9	-44.0	
27	4	80																			29.45	29.40	29.42	4	0.05	11.7	-49.0	
28	1	30																			29.42	29.34	29.38	4	0.08	6.5	-43.0	
29	0																				29.37	29.32	29.35	4	0.05	9.2	-50.0	
30	0																				29.40	29.37	29.38	4	0.03	6.7	-41.0	
31																												

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)													Altimeter			Total Obs Taken	Min Wind Chill	
	< 500				< 1000				< 3000					Max	Min	Avg			
	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L							
5	0.0	0.5	0.5	0.0	4.3	5.2	1.0	2.0	38.0	46.8	19.5	14.4	29.45	28.65	29.15	120	-54.0		
Total Hrs =or< 500: 1.0													Total Hrs =or< 1000: 12.5			Total Hrs =or< 3000: 118.7			Total Days 30
Total Days =or< 500: 1													Total Days =or< 1000: 5			Total Days =or< 3000: 13			
% Hrs =or< 500: 0.1%													% Hrs =or< 1000: 1.7%			% Hrs =or< 3000: 16.5%			
% Days =or< 500: 3.3%													% Days =or< 1000: 16.7%			% Days =or< 3000: 43.3%			

