

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					-19.8	-21.8										7	40	1421	8	50	1419												
15-18Z	90	11	-22.4	-26.2	-19.9	-22.4										11	90	1750	13	90	1741	3							28.53	962.2	3009	966.6	
18-21Z					-20.5	-24.6										15	100	1903	17	90	1926												
21-24Z	40	3	-21.6	-25.3	-20.1	-26.1										9	100	2242	11	100	2242	3						28.62	965.1	1016	969.5	7.0	
12 hr Max/Min																																	
00-03Z					-20.4	-29.1										4	180	121	5	180	121												
03-06Z	90	5	-22.5	-26.3	-20.8	-24.5				IC	1.3				T	6	90	529	7	100	533	1						28.71	968.3	3020	972.7		
06-09Z					-20.7	-22.4										5	90	749	7	90	607												
09-12Z	0	0	-20.0	-23.5	-18.7	-27.3										7	180	1047	9	170	1043	6	100				28.79	971.0	3010	975.4	9.6		
12 hr Max/Min																																	
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)								
Dir Spd		Temp		Temp		Temp		Time <1600 <4800 <9999			C F		sn/sg/ic fg/br bs			Total	Dir Spd Time			Dir Spd Time			Cover	CIG	Time <500 <1000 <3000								
83 5		-18.7 -29.1		-22.2		00-06L 0.0 0.0 0.0			-39.0 -38.2		1.3 0.0 0.0			T	100 15 1903			90 17 1926			3	100	00-06L 0.0 0.0 0.0										
						06-12L 0.0 0.0 0.0									Altimeter			Total Daily Daily					06-12L 0.0 0.0 0.0										
						12-18L 0.0 0.0 0.0									Max Min Avg			Obs Pres Temp					12-18L 0.0 0.0 0.0										
						18-24L 0.0 0.0 0.0									28.79 28.53 28.66			Taken Diff Diff					18-24L 0.0 0.0 0.0										
															4 0.26 10.4																		

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

Note 2: Duration should be fractions of an hour.

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

McMurdo Station Daily Observation Worksheet

Date

Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)								
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z					-16.1	-20.5																										
15-18Z	90	7	-17.0	-20.4	-16.3	-19.1																										
18-21Z					-15.1	-16.8																										
21-24Z	100	10	-17.1	-22.5	-14.5	-17.8																										
12 hr Max/Min					-14.5	-20.5																										
00-03Z					-14.2	-17.3																										
03-06Z	60	17	-22.7	-27.2	-15.7	-22.7																										
06-09Z					-19.7	-23.2																										
09-12Z	50	14	-20.8	-25.5	-18.6	-21.0																										
12 hr Max/Min					-14.2	-23.2																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
70	12			-14.2	-23.2	-17.2	00-06L	0.0	0.0	0.0	-38.0	-36.4	3.5	0.0	0.0	T	160	23	59	150	31	138			00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.32	9.0										
																	29.20	28.88	29.04													

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

Note 2: Duration should be fractions of an hour.

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

02

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.88	974.1	3019	978.5	
	28.95	976.5	1015	980.8	11.4
	29.11	981.9	3041	986.4	
	29.20	984.9	3014	989.4	13.9

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)					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					-20.1	-21.3										15	60	1310	19	60	1310									
15-18Z	40	17	-20.6	-26.1	-19.5	-20.7									T	18	40	1741	21	40	1739	4								
18-21Z					-19.9	-22.8										18	40	1907	22	60	2008									
21-24Z	70	20	-24.5	-32.2	-22.9	-24.7									T	21	90	2144	25	90	2146	8	20							
12 hr Max/Min					-19.5	-24.7																								
00-03Z					-24.2	-25.0										21	70	140	26	70	139									
03-06Z	70	18	-24.1	-30.8	-24.0	-24.6		2.0	5.5	SN		6.0	BR		5.5						8	35								
06-09Z					-24.0	-24.6										19	70	732	25	60	619									
09-12Z	80	11	-24.3	-30.6	-23.9	-24.6		2.5	6.0	SN			BR		6.0						8	35								
12 hr Max/Min					-23.9	-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	Time	CIG	Time	<500	<1000					
64	17	-19.5	-25.0	-21.3	00-06L	0.0	0.0	0.0	-41.0	-41.8	13.5	11.5	0.0	T	90	21	2144	70	26	139	7	20	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.03	5.5									
																29.25	29.22	29.24												

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03

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.22	985.6	1007	990.1	
4.5	29.25	986.5	2004	991.1	10.0
3.0	29.24	986.3	5004	990.9	
	29.25	986.3	8003	990.9	1.4

j (hrs)	
<1000	<3000
0.0	0.0
0.0	4.5
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)					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					-23.5	-26.2										15	100	1308	18	100	1306					
15-18Z	80	8	-24.8	-29.0	-22.0	-25.6			1.0	SN	2.5	BR	1.0		T	9	80	1737	11	110	1508	7	35			
18-21Z					-24.0	-26.9										9	90	2031	12	90	2013					
21-24Z	0	0	-22.3	-28.6	-22.3	-24.0										7	90	2115	9	90	2109	1	35			
12 hr Max/Min					-22.0	-26.9																				
00-03Z					-20.6	-24.0										4	180	213	5	190	211					
03-06Z	0	0	-20.4	-24.1	-20.9	-23.3										2	70	542	3	190	311	1				
06-09Z					-20.2	-23.9										2	170	829	2	40	848					
09-12Z		4	-21.7	-25.6	-20.8	-23.7										5	170	959	6	170	959	1				
12 hr Max/Min					-20.2	-24.0																				
Avg Wind		Dir	Spd	Temp	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	
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
80	3			-20.2	-26.9	-22.4	00-06L	0.0	0.0	1.0	-40.0	-40.0	2.5	1.0	0.0	T	100	15	1308	100	18	1306	3	35	00-06L	0.0
							06-12L	0.0	0.0	0.0															06-12L	0.0
							12-18L	0.0	0.0	0.0															12-18L	0.0
							18-24L	0.0	0.0	0.0															18-24L	0.0
																29.19	28.87	29.05	4	0.32	6.7					

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04

Station	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.19	984.6	6008	989.1	
	29.14	982.6	8013	987.2	3.9
	29.01	978.3	6023	982.8	
	28.87	973.6	6023	978.0	12.7

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-19.5	-23.0										9	320	1317	12	320	1257									
15-18Z	0	0	-23.0	-26.9	-21.3	-23.6									4	90	1518	5	90	1517	1									
18-21Z					-21.8	-24.3									4	60	1942	5	70	1939										
21-24Z	10	3	-22.0	-26.0	-21.0	-23.6									7	90	2229	8	100	2228	5	15								
12 hr Max/Min					-19.5	-24.3																								
00-03Z					-20.3	-21.6									4	350	27	6	340	26										
03-06Z	0	0	-25.0	-29.0	-21.6	-27.4									5	180	441	6	180	440	3	15								
06-09Z					-23.6	-25.6									4	60	622	4	360	844										
09-12Z		6	-20.7	-24.3	-20.7	-23.4									11	350	1123	15	350	1122	6	60								
12 hr Max/Min					-20.3	-27.4																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
10	2	-19.5	-27.4	-22.1	00-06L	0.0	0.0	0.0	-35.0	-31.0	0.0	0.0	0.0	0.00	350	11	1123	350	15	1122	4	15	00-06L	0.0	0.0					
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
															28.77	28.71	28.74	4	0.06	7.9										

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05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.77	970.2	6018	974.7	
2.0	28.71	968.4	6018	972.9	14.2
3.0	28.72	968.8	3013	973.3	
	28.76	969.9	3001	974.3	3.7

y (hrs)	
<1000	<3000
0.0	0.0
0.0	2.0
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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z					-19.2	-20.7																										
15-18Z	100	6	-17.9	-23.1	-16.3	-19.7									T	10	350	1645	13	320	1732	8	60									
18-21Z					-17.6	-20.7																										
21-24Z	140	19	-22.6	-26.5	-17.9	-22.5	1.0	3.0	5.0	SN	6.0	FG	3.5		T	22	140	2329	33	150	2313	8	8			1.5						
12 hr Max/Min					-16.3	-22.5																										
00-03Z					-20.4	-26.0																										
03-06Z	120	16	-22.6	-26.5	-18.6	-22.5	6.0	6.0	6.0	SN	6.0	FG	6.0	BS	0.8	T	26	140	445	35	140	505	8	5			6.0					
06-09Z					-21.6	-25.5																										
09-12Z	40	21	-24.2	-28.9	-21.3	-24.6	5.0	6.0	6.0	SN	6.0	FG	6.0	BS	5.0	T	30	150	945	39	160	940	8	5			4.0					
12 hr Max/Min					-18.6	-26.0																										
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	Dir	Spd	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	hrs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	<500	<1000	Time	<500						
99	16			-16.3	-26.0	-19.5	00-06L	0.0	0.0	0.0	-44.0	-47.2	18.5	15.5	5.8	T	60	31	647	160	39	940	8	5	00-06L	0.0						
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																Max	Min	Avg	4	0.29	9.7											
																29.08	28.79	28.95														

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06

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.79	971.2	3007	975.5	
3.0	28.92	975.3	3034	979.7	6.9
6.0	29.00	978.0	3017	982.4	
6.0	29.08	980.4	0016	985.0	10.5

Time (hrs)	
<1000	<3000
0.0	0.0
1.5	3.0
6.0	6.0
4.0	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					-23.0	-25.3																									
15-18Z	120	14	-20.9	-27.0	-20.9	-24.4		3.0	5.0	SN		6.0	BR		1.0	BS		3.0	T	24	60	1204	29	60	1209	8	20				
18-21Z					-20.5	-21.9															24	150	1925	30	150	1918					
21-24Z	130	12	-20.9	-26.5	-20.4	-21.2				SN		6.0								T	17	140	2124	24	130	2207	8	40			
12 hr Max/Min					-20.4	-25.3																									
00-03Z					-19.6	-21.2															17	130	0	25	150	2359					
03-06Z	90	6	-20.1	-26.9	-19.5	-20.1				SN		2.5								T	10	100	259	16	80	523	7	60			
06-09Z					-20.1	-24.7																16	70	809	20	70	808				
09-12Z	70	9	-21.4	-28.2	-21.3	-23.3				SN		1.5								T	14	60	902	16	60	902	0	90			
12 hr Max/Min					-19.5	-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	Dir	Spd	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	hrs	hrs	hrs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time				
108	10				-19.5	-25.3	-21.4	00-06L	0.0	3.0	5.0		-41.0	-41.8	16.0	1.0	3.0	T	60	24	1204	150	30	1918	6	20	00-06L	0.0			
																	Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
																	Max	Min	Avg	4	0.06	5.8									
																	29.16	29.10	29.13	4	0.06	5.8									

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07

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
5.0	29.11	981.7	1002	986.1	
	29.16	983.2	1005	987.7	7.9
	29.13	982.6	8009	986.9	
	29.10	981.5	8003	986.0	1.1

j (hrs)	
<1000	<3000
0.0	5.0
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					-21.5	-25.5																						
15-18Z	80	20	-26.9	-32.7	-23.8	-27.1												21	60	1446	25	60	1449					
18-21Z					-24.7	-27.0												20	70	1759	25	80	1757					
21-24Z	70	14	-23.5	-30.7	-23.3	-24.7												18	60	2215	23	70	2137	7	40			
12 hr Max/Min					-21.5	-27.1																						
00-03Z					-22.8	-23.5												14	80	33	18	70	18					
03-06Z	60	4	-22.2	-28.6	-22.0	-23.0												12	40	502	15	40	501	8	30			
06-09Z					-21.5	-23.2													9	40	644	10	40	645				
09-12Z	0	0	-22.4	-28.0	-20.8	-22.8													5	90	857	6	90	914	3	30		
12 hr Max/Min					-20.8	-23.5																						
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	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500				
74	10				00-06L	0.0	0.0	0.0	-43.0	-45.4	12.5	0.0	0.0	T	60	21	1446	80	26	1747	5	30	00-06L	0.0				
															Altimeter													
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
															29.09	29.07	29.08	4	0.02	6.3								

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

Note 2: Duration should be fractions of an hour.

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

08

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.08	980.5	8004	985.1	
	29.07	980.4	6003	984.9	2.8
	29.07	980.4	5000	984.8	
	29.09	981.2	2004	985.7	0.3

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

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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					-21.4	-24.1										4	160	1422	5	180	1316												
15-18Z	320	8	-20.3	-24.9	-20.3	-24.3										9	310	1750	13	310	1750	3											
18-21Z					-19.8	-20.3										13	330	1809	18	330	1808												
21-24Z	360	5	-20.3	-24.9	-19.7	-24.0										8	320	2141	13	310	2109	7	70										
12 hr Max/Min						-19.7	-24.3																										
00-03Z					-19.7	-23.3										6	80	101	8	90	59												
03-06Z	130	10	-24.4	-29.6	-20.8	-24.4										10	120	544	12	110	543	7	70										
06-09Z					-23.7	-25.6										16	90	849	23	90	814												
09-12Z	70	18	-27.7	-33.8	-25.7	-29.3		1.2	4.0	SN	5.8				T	20	70	1038	26	80	1035	8	30										
12 hr Max/Min						-19.7	-29.3																										
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						
61	10			-19.7	-29.3	-22.9	00-06L	0.0	0.0	0.0	-46.0	-50.8	5.8	0.0	0.0	T	70	20	1038	80	26	1035	6	30	00-06L	0.0	0.0						
																	Altimeter																
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff											
																	29.13	29.08	29.11	4	0.05	9.6											

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.

09

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.08	980.9	8001	985.3	
	29.10	981.4	0002	985.8	1.0
	29.11	981.5	3002	986.2	
	29.13	982.6	1003	987.1	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					-24.5	-28.2																							
15-18Z	30	4	-22.7	-28.8	-22.4	-24.7			3.0	SN	3.5						T	20	70	1226	24	80	1311	8	30				
18-21Z					-20.1	-24.7													13	320	2050	18	330	2050					
21-24Z	50	4	-21.3	-25.7	-19.9	-21.4				SN	4.5							T	14	330	2227	17	350	2158	8	40			
12 hr Max/Min						-19.9	-28.2																						
00-03Z					-19.1	-21.3													7	40	148	9	40	147					
03-06Z	330	10	-18.1	-23.1	-17.0	-19.3				SN	3.3							T	14	320	549	17	320	549	7	40			
06-09Z					-16.5	-18.1														12	350	613	17	330	603				
09-12Z	110	6	-17.0	-26.9	-16.4	-18.1													9	350	922	11	350	922	8	40			
12 hr Max/Min						-16.4	-21.3																						
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000		
24	6			-16.4	-28.2	-20.3	00-06L	0.0	0.0	3.0	-44.0	-47.2	11.3	0.0	0.0	T	70	20	1226	80	24	1311	8	30	00-06L	0.0			
																	Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																	Max	Min	Avg										
																	29.12	28.96	29.05	4	0.16	11.8							

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					
	29.12	982.1	6008	986.6	
	29.11	981.7	3004	986.3	0.3
	28.99	977.7	6014	982.1	
	28.96	976.8	6006	981.1	5.8

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

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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					-17.1	-19.1																							
15-18Z	60	15	-18.6	-22.8	-17.3	-18.7			3.0	SN	3.5						T	14	60	1750	17	60	1748	8	12				
18-21Z					-18.0	-21.5													16	100	2029	20	110	2028					
21-24Z	90	13	-26.2	-31.1	-19.5	-26.2	1.0	4.0	6.0	SN	6.0	BR	5.9					0.01	17	80	2333	24	150	2206	8	8		0.5	
12 hr Max/Min					-17.1	-26.2																							
00-03Z					-24.5	-28.7													24	60	124	28	60	115					
03-06Z	110	10	-23.1	-28.4	-22.9	-25.4				SN	6.0	BR						T	20	90	404	28	100	403	8	15			
06-09Z					-21.0	-24.1														22	150	629	29	90	647				
09-12Z	60	17	-25.7	-30.7	-21.2	-26.0		1.5	6.0	SN	6.0	BR	1.5						T	23	60	1148	29	50	1148	8	15		
12 hr Max/Min					-21.0	-28.7																							
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	<500			<1000				
76	14	-17.1	-28.7	-21.0	00-06L	0.0	0.0	3.0	-47.0	-52.6	21.5	7.4	0.0	0.01	60	24	124	90	29	647	8	8	00-06L	0.0					
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
																Max	Min	Avg				12-18L	0.0						
																28.94	28.86	28.90	4	0.08	11.6	18-24L	0.0						

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

Note 2: Duration should be fractions of an hour.

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

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		Station				
s)	Alt	Press	Press	SLP	24-Hour	
<3000	(in)	(mb)	Tend	(mb)	Pressure	
	2.0	28.89	974.6	6011	978.9	
	5.5	28.94	976.1	1013	980.5	
	1.5	28.86	973.2	6014	977.6	
	2.5	28.89	974.3	1008	978.7	
y (hrs)						
<1000	<3000					
0.0	2.0					
0.5	5.5					
0.0	1.5					
0.0	2.5					

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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					-23.1	-25.8																					
15-18Z	80	10	-21.2	-26.7	-21.1	-23.0			6.0	SN	6.0												8	15			
18-21Z					-21.1	-25.0																					
21-24Z	70	21	-29.9	-35.2	-23.3	-30.1	2.0	5.5	6.0	SN	6.0	BRFG	5.5	BS	2.0								8	8		1.0	
12 hr Max/Min					-21.1	-30.1																					
00-03Z					-26.5	-29.9																					
03-06Z	110	16	-20.9	-28.3	-20.9	-26.4	1.0	3.5	4.0	SN	6.0	BRFG	3.5	BS	2.5								7	8		1.0	
06-09Z					-18.1	-20.8																					
09-12Z	60	11	-18.0	-27.3	-18.0	-20.3				SN	6.0												7	70			
12 hr Max/Min					-18.0	-29.9																					
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust								
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcpr Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	Ceiling <500			
81	15				00-06L	0.0	0.0	6.0	-49.0	-56.2	24.0	9.0	4.5	T	60	27	2332	160	37	2133	8	8	00-06L	0.0			
																Altimeter											
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																28.98	28.86	28.93	4	0.12	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 entry for Max Wind and Max Gust is ch from conventional. The order is: Spd, I and Time.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	6.0	28.94	976.0	5000	980.4
	6.0	28.98	977.7	5002	982.3
	3.0	28.94	976.1	8022	980.5
		28.86	973.4	8027	978.0

Station	
<1000	<3000
0.0	6.0
1.0	6.0
1.0	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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z					-17.0	-20.6										11	60	1209	15	60	1209											
15-18Z	60	7	-17.1	-27.1	-17.0	-20.1				SN	1.0				T	8	80	1604	9	60	1744	7	70									
18-21Z					-16.5	-17.8										11	40	1919	12	40	1923											
21-24Z	0	0	-16.3	-21.6	-16.3	-23.1										15	40	2200	20	110	2121	7	90									
12 hr Max/Min					-16.3	-23.1																										
00-03Z					-13.9	-22.3										12	350	128	18	350	132											
03-06Z	360	9	-14.2	-23.8	-14.2	-20.1				SN	2.0				T	8	10	548	11	10	546	7	60									
06-09Z					-13.0	-14.0										12	350	558	15	350	558											
09-12Z	30	5	-13.8	-17.8	-12.4	-15.1				2.0	SN	6.0			0.02	8	40	1147	9	40	1138	8	30									
12 hr Max/Min					-12.4	-22.3																										
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling			
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	Time	Time	Time	Time					
27	5	-12.4	-23.1	-16.0	00-06L	0.0	0.0	0.0	-36.0	-32.8	9.0	0.0	0.0	0.0	0.02	40	15	2200	110	20	2121	7	30	00-06L	0.0	0.0						
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																Max			28.86		28.84		28.85									
																4		0.02		10.7												

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	28.85	973.1	0003	977.5	
	28.84	972.7	1004	977.2	5.0
	28.86	973.2	0000	977.6	
	28.86	973.6	0001	977.8	0.2

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)					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					-13.1	-13.8																																
15-18Z	60	8	-13.1	-16.9	-12.9	-14.0		5.0	6.0	SN		6.0						0.02	10	40	1521	11	40	1520	8	25												
18-21Z					-13.2	-14.3																																
21-24Z	60	8	-13.1	-16.3	-12.4	-13.3	1.0	3.0	6.0	SN		6.0						0.02	12	60	2133	16	60	2128	8	20												
12 hr Max/Min																																						
00-03Z					-13.0	-14.2																																
03-06Z	70	12	-15.5	-18.9	-14.3	-15.6		5.0	6.0	SN		6.0						0.02	15	100	309	21	90	308	8	20												
06-09Z					-14.1	-16.0																																
09-12Z	70	8	-14.0	-26.4	-13.9	-16.0		2.0	5.0	SN		6.0						T	12	80	1003	16	100	937	8	40												
12 hr Max/Min																																						
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling											
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000											
66	9			-12.4	-16.0	-13.6	00-06L	0.0	5.0	6.0	-27.0	-16.6	24.0	0.0	0.0	0.06	40	15	2013	90	21	308	8	20	00-06L	0.0												
																	Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff																
																	Max	Min	Avg	4	0.25	3.6																
																	29.12	28.87	28.98	4	0.25	3.6																

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
5.0	28.87	973.8	3004	978.0	
6.0	28.92	975.1	1013	979.5	2.4
5.0	29.01	978.3	2017	982.6	
	29.12	982.1	1013	986.4	8.5

j (hrs)	
<1000	<3000
0.0	5.0
0.0	6.0
0.0	5.0
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
12-15Z					-13.8	-16.5										14	60	1411	17	60	1411				
15-18Z	120	6	-17.8	-27.0	-13.2	-21.1									T	10	110	1714	14	110	1736	7	60		
18-21Z					-15.1	-17.9										15	140	2050	23	150	2043				
21-24Z	80	11	-15.1	-27.1	-14.9	-16.6										20	140	2114	25	150	2116	7	50		
12 hr Max/Min					-13.2	-21.1																			
00-03Z					-12.4	-15.0										15	60	57	2	50	125				
03-06Z	100	14	-12.8	-22.0	-12.3	-15.0										25	170	510	30	170	509	7	70		
06-09Z					-12.1	-14.0										18	140	605	30	150	604				
09-12Z	90	8	-10.9	-19.6	-10.8	-12.9										15	60	1037	21	100	912	8	70		
12 hr Max/Min					-10.8	-15.0																			
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	Pcpr Total	Dir	Spd	Time	Dir	Spd	Time	Avg Sky Cover	Low-est CIG	Time	<500	
95	10				00-06L	0.0	0.0	0.0	-31.0	-23.8	2.5	0.0	0.0	T	170	25	510	170	30	509	7	50	00-06L	0.0	
																Altimeter									
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																29.23	29.18	29.21	4	0.05	10.3				

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.

15

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.19	984.6	1018	989.0	
	29.22	985.4	8003	989.7	10.3
	29.23	985.8	1008	990.2	
	29.18	984.3	6014	988.6	2.2

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-9.8	-10.9									13	70	1238	20	90	1239										
15-18Z	90	10	-10.3	-20.7	-10.2	-11.1									14	60	1644	17	60	1644	8	70								
18-21Z					-10.0	-12.3									12	90	1957	15	90	1902										
21-24Z	0	0	-11.3	-20.8	-8.7	-11.4									13	60	2118	16	60	2117	7	100								
12 hr Max/Min					-8.7	-12.3																								
00-03Z					-11.1	-14.9									5	170	42	6	170	41										
03-06Z	350	15	-8.4	-16.5	-8.4	-11.3									16	350	550	22	340	550	1	100								
06-09Z					-7.7	-11.8									18	350	612	24	350	611										
09-12Z	70	12	-13.3	-21.1	-10.6	-17.0									18	60	1042	23	60	1041	0									
12 hr Max/Min					-7.7	-17.0																								
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					
45	9	-7.7	-17.0	-10.8	00-06L	0.0	0.0	0.0	-29.0	-20.2	0.0	0.0	0.0	0.00	350	18	612	350	24	611	4	70	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.15	9.3									
																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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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.14	982.6	8010	987.0	
	29.10	981.4	6012	985.7	4.0
	28.99	977.7	6021	981.9	
	29.04	979.3	1020	983.7	5.0

Station	
<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					-9.3	-21.4									15	70	1209	18	70	1210										
15-18Z	10	6	-11.4	-24.1	-11.3	-17.8									8	10	1733	10	10	1732	0									
18-21Z					-9.5	-15.8									10	330	2049	12	340	2048										
21-24Z	200	8	-8.7	-17.7	-7.8	-10.0									8	190	2350	11	190	2350	5	80								
12 hr Max/Min					-7.8	-21.4																								
00-03Z					-4.4	-8.6									12	130	200	18	120	159										
03-06Z	40	9	-5.1	-17.8	-4.1	-5.8									16	150	337	21	150	337	1	80								
06-09Z					-5.1	-9.7									10	50	608	15	40	601										
09-12Z	170	17	-6.8	-18.5	-5.2	-10.5									21	190	1143	25	190	1143	8	80								
12 hr Max/Min					-4.1	-10.5																								
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					
148	10	-4.1	-21.4	-9.9	00-06L	0.0	0.0	0.0	-33.0	-27.4	0.0	0.0	0.0	0.00	190	21	1143	190	25	1143	4	80	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																Max	Min	Avg	4	0.18	17.3									
																29.36	29.18	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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.18	984.1	0018	988.3	
	29.33	989.2	3026	993.6	7.8
	29.31	988.7	8007	992.9	
	29.36	990.3	3017	994.6	11.0

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					-5.0	-7.1																								
15-18Z	170	5	-4.6	-12.0	-4.1	-4.9																								
18-21Z					-4.4	-7.7																								
21-24Z	130	15	-8.8	-12.9	-7.6	-8.8																								
12 hr Max/Min					-4.1	-8.8																								
00-03Z					-8.6	-9.3																								
03-06Z	110	11	-8.3	-16.5	-7.8	-8.9																								
06-09Z					-7.4	-9.1																								
09-12Z	0	0	-7.4	-20.8	-6.3	-8.9																								
12 hr Max/Min					-6.3	-9.3																								
Avg Wind		Max		Min		Avg		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn			Max Wind			Max Gust			Avg Sky		Low-est		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000					
129	8		-4.1	-9.3	00-06L	0.0	0.0	0.0	-20.0	-4.0	6.5	0.0	0.0	T	160	25	2325	160	33	2011	8	50	00-06L	0.0	0.0					
															Altimeter			Total		Daily		Daily								
															Max			Obs		Pres		Temp								
															29.41 29.28 29.36			Taken		Diff		Diff								
																		4		0.13		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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.38	991.0	5000	995.3	
	29.41	992.0	8001	996.3	2.8
	29.35	990.0	0000	994.3	
	29.28	987.5	8017	991.8	2.8

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-7.3	-10.1									8	160	1446	9	150	1446										
15-18Z	60	15	-12.3	-22.6	-9.4	-12.5									21	70	1605	25	80	1604	3	200								
18-21Z					-11.9	-14.5									23	60	1844	28	60	1842										
21-24Z	60	14	-15.4	-24.7	-13.1	-15.4									21	70	2146	28	60	2120	1									
12 hr Max/Min					-7.3	-15.4																								
00-03Z					-12.9	-15.5									19	50	41	26	60	40										
03-06Z		4	-9.9	-14.4	-9.9	-13.3									15	40	311	18	40	315	6	20								
06-09Z					-10.0	-12.5									5	40	804	7	350	720										
09-12Z	0	0	-12.2	-16.1	-11.4	-13.0				SN	5.7			T	5	90	1105	6	100	1113	8	15								
12 hr Max/Min					-9.9	-15.5																								
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					
60	8	-7.3	-15.5	-10.0	00-06L	0.0	0.0	0.0	-27.0	-16.6	5.7	0.0	0.0	T	60	23	1844	60	28	1842	5	15	00-06L	0.0	0.0					
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
															Max	Min	Avg	4	0.21	8.2										
															29.19	28.98	29.09													

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					
	29.19	984.4	6009	988.8	
	29.13	982.6	8010	986.9	9.4
1.5	29.06	980.0	6015	984.3	
6.0	28.98	977.5	6014	981.7	10.0

y (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	1.5
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					-12.2	-15.4																										
15-18Z	80	15	-20.2	-27.6	-15.5	-20.4									T	8	100	1436	10	90	1441											
18-21Z					-19.0	-20.6																										
21-24Z	50	17	-19.3	-29.8	-18.5	-19.9																										
12 hr Max/Min					-12.2	-20.6																										
00-03Z					-15.6	-19.4																										
03-06Z	0	0	-17.9	-24.2	-13.4	-19.2									T	12	300	329	16	300	328											
06-09Z					-16.6	-20.5																										
09-12Z	40	3	-17.7	-23.1	-17.0	-18.1									T	6	90	1101	7	100	912											
12 hr Max/Min					-13.4	-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	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000							
62	9	-12.2	-20.6	-15.0	00-06L	0.0	0.0	0.0	-35.0	-31.0	8.0	0.0	0.0	0.0	T	60	21	2036	70	27	1913	5	15	00-06L	0.0							
																		Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																		Max			29.07		0.14		8.4							
																		Min			28.93		0.14		8.4							
																		Avg			28.99		0.14		8.4							

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
3.0	28.97	977.3	1003	981.5	
0.5	28.93	975.6	8006	980.0	7.0
6.0	28.98	977.7	3012	982.0	
4.0	29.07	980.4	3017	984.7	2.9

j (hrs)	
<1000	<3000
0.0	3.0
0.0	0.5
0.0	6.0
0.0	4.0

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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					-17.5	-20.2										15	40	1450	18	40	1450											
15-18Z	40	13	-19.3	-29.3	-18.6	-20.3										17	40	1744	20	40	1743	4	25									
18-21Z					-16.2	-19.7										14	40	1844	17	40	1844											
21-24Z	60	12	-20.0	-26.9	-16.6	-20.2				SN	2.3				T	13	40	2326	14	60	2350	8	25									
12 hr Max/Min						-16.2	-20.3																									
00-03Z					-18.3	-20.0										14	40	249	18	40	224											
03-06Z	0	0	-15.6	-20.2	-15.4	-19.5			0.5	SN	6.0				T	15	40	257	17	40	328	8	20									
06-09Z					-15.5	-24.2										17	110	811	21	110	810											
09-12Z	90	6	-19.2	-24.8	-17.7	-20.0			3.9	SN	6.0				0.04	10	100	939	12	100	939	8	20									
12 hr Max/Min						-15.4	-24.2																									
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
57	8			-15.4	-24.2	-18.3	00-06L	0.0	0.0	0.0	-38.0	-36.4	14.3	0.0	0.0	0.04	40	17	1744	110	21	810	7	20	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.38	8.8										
																	29.55	29.17	29.35													

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					
2.0	29.17	983.6	3021	988.1	
3.0	29.29	988.0	3026	992.4	12.4
4.0	29.38	991.0	1013	995.4	
4.8	29.55	996.6	1027	1001.1	16.2
j (hrs)					
<1000	<3000				
0.0	2.0				
0.0	3.0				
0.0	4.0				
0.0	4.8				

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-18.1	-20.2										8	90	1320	10	90	1226									
15-18Z	0	0	-21.7	-26.8	-18.4	-26.4				SN	2.5				T	5	190	1532	8	230	1547	4	50							
18-21Z					-16.6	-21.2										8	340	2046	11	340	2032									
21-24Z	100	10	-20.2	-27.1	-15.6	-20.1										11	350	2237	16	330	2157	7	70							
12 hr Max/Min					-15.6	-26.4																								
00-03Z					-18.3	-21.0										14	50	233	18	60	201									
03-06Z	40	11	-19.4	-27.0	-19.4	-20.2										15	50	445	18	40	528	7	70							
06-09Z					-19.2	-23.2										19	40	810	22	40	809									
09-12Z	40	15	-21.8	-30.8	-21.6	-24.0										20	40	943	24	40	942	0	80							
12 hr Max/Min					-18.3	-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	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Temp	Time	<500	<1000				
56	9	-15.6	-26.4	-19.2	00-06L	0.0	0.0	0.0	-39.0	-38.2	2.5	0.0	0.0	T	40	20	943	40	24	942				5	50	00-06L	0.0			
																Altimeter														
																Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
																29.72	29.64	29.69	4	0.08	10.8									

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				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.64	999.8	1017	1004.3	
	29.71	1001.9	1010	1006.4	13.9
	29.72	1002.4	3002	1006.9	
	29.68	1001.2	8007	1005.7	4.6

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)									
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000							
12-15Z					-21.5	-22.9									15	40	1239	18	40	1325													
15-18Z	30	5	-21.3	-27.8	-20.7	-22.6									15	40	1459	17	40	1623	4												
18-21Z					-17.8	-21.3									11	310	2024	15	280	2024													
21-24Z	0	0	-22.3	-27.1	-19.8	-22.3									4	80	2238	4	80	2240	1												
12 hr Max/Min					-17.8	-22.9																											
00-03Z					-22.0	-23.2									5	90	219	6	80	219													
03-06Z	90	7	-21.8	-26.4	-21.2	-23.4									10	110	534	12	110	533	1												
06-09Z					-21.1	-22.1									9	90	558	11	100	606													
09-12Z		5	-19.2	-23.4	-19.1	-21.7									6	310	1144	9	320	1150	0												
12 hr Max/Min					-19.1	-23.4																											
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						
65	4			-17.8	-23.4	-19.7	00-06L	0.0	0.0	0.0	-36.0	-32.8	0.0	0.0	0.0	0.00	40	15	1239	40	18	1325	2		00-06L	0.0							
																	Altimeter																
																	Max			Total Obs Taken		Daily Pres Diff		Daily Temp Diff									
																	29.61 29.27 29.45			4		0.34		5.6									

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.

: 23

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.61	998.6	8014	1003.2	
	29.51	994.9	8021	999.5	7.0
	29.40	991.7	6016	996.1	
	29.27	987.3	8024	991.7	13.9

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)					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					-19.0	-22.6																					
15-18Z	100	15	-21.7	-26.3	-20.1	-23.5																					
18-21Z					-22.4	-27.0																					
21-24Z	70	17	-25.1	-32.1	-23.3	-26.4																					
12 hr Max/Min					-19.0	-27.0																					
00-03Z					-23.9	-25.4																					
03-06Z	100	10	-23.2	-28.1	-20.8	-24.5																					
06-09Z					-19.8	-23.9																					
09-12Z	80	5	-23.4	-28.2	-21.4	-23.8																					
12 hr Max/Min					-19.8	-25.4																					
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcpr Total	Dir	Spd	Time	Dir	Spd	Time	Time			<500	<1000		
87	12		-19.0	-27.0	-21.7	00-06L	0.0	0.0	0.0	-45.0	-49.0	2.8	0.0	0.0	T	90	27	1935	90	34	1940			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg									
																29.25	29.19	29.21	4	0.06	8.0			06-12L	0.0		
																							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.

24

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.19	984.4	5003	988.9	
	29.19	984.4	1009	988.8	10.5
	29.21	985.1	5006	989.6	
3.5	29.25	986.6	3003	991.1	0.7

Dir (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	0.0
0.0	3.5

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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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000
12-15Z					-22.4	-23.5										11	70	1450	14	70	1449					
15-18Z	80	15	-23.0	-27.2	-21.7	-26.7				SN	2.1				T	21	60	1739	27	60	1737	4	13			
18-21Z					-25.6	-27.7										25	60	2029	31	60	2029					
21-24Z	60	11	-26.8	-36.6	-26.5	-28.1										23	60	2209	29	60	2101	0				
12 hr Max/Min					-21.7	-28.1																				
00-03Z					-25.8	-27.5										25	60	250	31	60	250					
03-06Z	50	16	-26.7	-39.3	-26.4	-27.6										25	60	325	34	70	308	1				
06-09Z					-26.7	-28.5										20	60	604	28	50	601					
09-12Z	50	13	-28.0	-34.9	-26.9	-29.2				SN	3.5				T	17	60	916	22	50	930	7	12			
12 hr Max/Min					-25.8	-29.2																				
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			Time	<500	<1000	
60	14	-21.7	-29.2	-24.2	00-06L	0.0	0.0	0.0	-46.0	-50.8	5.6	0.0	0.0	T	60	25	2029	70	34	308	3	12	00-06L	0.0	0.0	
																	Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				
																	Max	Min	Avg							
																	29.34	29.26	29.31	4	0.08	7.5				

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.

: 25

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
1.5	29.26	986.6	3002	991.1	
	29.34	989.3	3017	994.0	4.9
	29.32	989.0	8002	993.5	
4.0	29.33	989.2	8001	993.7	2.6

y (hrs)	
<1000	<3000
0.0	1.5
0.0	0.0
0.0	0.0
0.0	4.0

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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					-27.9	-30.4																						
15-18Z	80	5	-28.2	-33.7	-28.1	-33.0									T	15	100	1532	19	100	1544	4	15					
18-21Z					-26.9	-32.0																						
21-24Z	90	8	-27.3	-32.8	-26.6	-27.9																						
12 hr Max/Min					-26.6	-33.0																						
00-03Z					-25.9	-29.3																						
03-06Z	80	10	-26.7	-31.3	-26.5	-32.1																						
06-09Z					-26.2	-30.7																						
09-12Z	100	14	-29.0	-33.8	-28.8	-30.2			2.8	SN	3.5	BR	2.8		T	18	90	1039	23	90	1040	7	5			1.5		
12 hr Max/Min					-25.9	-32.1																						
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Pcprn Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000			
90	9		-25.9	-33.0	-28.3	00-06L	0.0	0.0	0.0	-50.0	-58.0	6.5	2.8	0.0	T	100	20	511	90	24	824	4	5	00-06L	0.0			
															Altimeter			Total Obs Taken			Daily Pres Diff		Daily Temp Diff					
															Max	Min	Avg											
															29.30	29.26	29.28											
																		4		0.04		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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
3.0	29.29	987.8	6006	992.5	
	29.26	986.6	5003	991.3	2.7
	29.27	987.1	3001	991.7	
3.5	29.30	988.1	1002	992.8	1.1

Station	
<1000	<3000
0.0	3.0
0.0	0.0
0.0	0.0
1.5	3.5

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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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z					-28.6	-30.6																					
15-18Z	60	11	-29.0	-33.8	-28.9	-31.4									T	18	90	1332	22	90	1331						
18-21Z					-28.6	-30.8																					
21-24Z	40	12	-28.6	-34.3	-28.0	-30.3									T	18	40	2016	24	40	1808						
12 hr Max/Min					-28.0	-31.4																					
00-03Z					-28.5	-31.6																					
03-06Z	80	16	-31.2	-38.3	-30.6	-31.5									T	19	70	530	25	70	529						
06-09Z					-29.7	-31.6																					
09-12Z	90	11	-31.2	-38.2	-27.4	-32.0									T	13	90	1122	18	60	919						
12 hr Max/Min					-27.4	-32.0																					
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000		
68	13	-27.4	-32.0	-28.9	00-06L	0.0	0.0	0.0	-50.0	-58.0	24.0	0.0	0.0	0.0	T	90	20	242	70	25	529			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg	4	0.12	4.6						
																29.30	29.18	29.26									

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

Note 2: Duration should be fractions of an hour.

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

: 27

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
5.0	29.27	987.1	8007	991.9	
4.0	29.30	988.3	0002	992.9	1.7
6.0	29.28	987.3	6004	992.0	
6.0	29.18	984.1	6017	988.8	4.0

y (hrs)	
<1000	<3000
0.0	5.0
0.0	4.0
0.0	6.0
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					-28.2	-33.2																										
15-18Z	50	3	-28.5	-33.6	-27.6	-31.1									T	8	90	1516	10	90	1620	6	20									
18-21Z					-27.1	-29.9																										
21-24Z	110	21	-35.2	-41.2	-26.6	-35.2									T	17	110	2344	22	120	2342	8	20									
12 hr Max/Min					-26.6	-35.2																										
00-03Z					-30.2	-35.6																										
03-06Z	70	20	-34.5	-41.3	-34.1	-34.7			3.1	-SN	3.0	BR	1.1	BS	2.0	T	24	60	425	30	70	511	6	20								
06-09Z					-34.5	-34.9																										
09-12Z	70	18	-34.4	-41.3	-34.4	-35.1			4.5	-SN	1.5			BS	4.5	T	24	70	930	29	70	1014	5	25								
12 hr Max/Min					-30.2	-35.6																										
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling							
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	Time	Time	<500	<1000							
82	16	-26.6	-35.6	-29.6	00-06L	0.0	0.0	0.0	-56.0	-68.8	11.0	1.4	6.5	T	60	26	822	70	31	821			6	20	00-06L	0.0						
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff											
																Max	Min	Avg	4	0.12	9.0											
																29.10	28.98	29.03														

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

Note 2: Duration should be fractions of an hour.

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

: 28

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
6.0	29.10	981.5	8012	986.1	
3.5	29.03	979.0	6008	983.8	9.3
2.5	28.99	977.8	5012	982.3	
1.5	28.98	977.3	0003	982.0	6.8

y (hrs)	
<1000	<3000
0.0	6.0
0.0	3.5
0.0	2.5
0.0	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					-33.3	-34.9										19	80	1223	24	70	1308						
15-18Z	80	14	-33.2	-40.6	-32.2	-33.7			3.0	SN			4.5	BS	4.5	T	16	80	1746	20	70	1722	3	25			
18-21Z					-30.1	-35.4											15	110	1958	21	110	1957					
21-24Z		3	-30.1	-36.4	-28.9	-32.8											10	100	2144	13	120	2118	1				
12 hr Max/Min					-28.9	-35.4																					
00-03Z					-28.7	-34.5											9	350	103	13	340	48					
03-06Z	0	0	-29.8	-34.8	-28.4	-31.9											4	180	411	4	180	411	7	60			
06-09Z					-29.7	-31.2											8	100	825	10	100	824					
09-12Z	60	12	-32.1	-38.7	-29.6	-32.3				IC			1.4			T	15	40	1141	20	60	1150	0	60			
12 hr Max/Min					-28.4	-34.5																					
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Time	<500			<1000		
71	7	-28.4	-35.4	-30.7	00-06L	0.0	0.0	3.0	-53.0	-63.4	5.9	0.0	4.5	T	80	19	1223	70	24	1308			00-06L	0.0			
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
																Max	Min	Avg				12-18L	0.0				
																28.96	28.93	28.94	18-24L	0.0							
																4	0.03	7.0									

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.

: 29

s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
3.0	28.95	976.5	8008	981.1	
	28.93	975.8	8001	980.4	3.2
	28.93	975.8	7001	980.4	
	28.96	976.6	3007	981.2	0.7

y (hrs)	
<1000	<3000
0.0	3.0
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					-31.8	-33.4										16	60	1313	21	50	1312								
15-18Z	0	0	-31.0	-37.7	-30.7	-32.4				IC	3.5				T	13	40	1537	16	40	1529	0							
18-21Z					-30.7	-35.2										10	90	1944	12	100	1944								
21-24Z	50	3	-30.9	-36.7	-30.7	-32.6										8	90	2236	11	100	2229	1							
12 hr Max/Min					-30.7	-35.2																							
00-03Z					-30.8	-31.8										7	40	32	8	40	32								
03-06Z	50	4	-30.9	-36.0	-30.8	-33.6										6	70	435	7	70	434	4							
06-09Z					-27.9	-31.5										4	50	637	5	60	635								
09-12Z	0	0	-31.3	-36.4	-28.4	-31.8				IC	5.5				T	4	180	1100	5	260	910	3							
12 hr Max/Min					-27.9	-33.6																							
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	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				
50	2	-27.9	-35.2	-30.3	00-06L	0.0	0.0	0.0	-49.0	-56.2	9.0	0.0	0.0	T	60	16	1313	50	21	1312	2		00-06L	0.0					
															Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
															Max	Min	Avg	4	0.07	7.3									
															29.03	28.96	29.00												

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
	28.99	977.8	1005	982.4	
	29.03	979.0	0005	983.7	3.2
	29.00	978.2	6008	982.8	
	28.96	976.8	5008	981.5	0.2

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

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anged
Dir,

Station:
NZCM

Monthly Climatology / Page 1

Month:
APR 2014

Date	Temp (C)			Visibility (hrs)												WX and Duration				Pcpn Amt	Avg Wind		Max Wind							
	Max	Min	Avg	< 1600				< 4800				< 9999				sn/sg/ic	fg/br	bs	Total		Spd	Dir	Spd	Dir						
	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total															
1	-18.7	-29.1	-22.2															1.25			1.25	T	5	83	15	100				
2	-14.2	-23.2	-17.2															3.50			3.50	T	12	70	23	160				
3	-19.5	-25.0	-21.3								2.00	2.50	4.50				5.50	6.00	11.50	13.50	11.50		25.00	T	17	64	21	90		
4	-20.2	-26.9	-22.4												1.00				1.00	2.50	1.00		3.50	T	3	80	15	100		
5	-19.5	-27.4	-22.1																						2	10	11	350		
6	-16.3	-26.0	-19.5		1.00	6.00	5.00	12.00			3.00	6.00	6.00	15.00		5.00	6.00	6.00	17.00	18.50	15.50	5.75	39.75	T	16	99	31	60		
7	-19.5	-25.3	-21.4							3.00				3.00	5.00		0.00		5.00	16.00	1.00	3.00	20.00	T	10	108	24	60		
8	-20.8	-27.1	-22.9																	12.50			12.50	T	10	74	21	60		
9	-19.7	-29.3	-22.9									1.20	1.20					4.00	4.00	5.75			5.75	T	10	61	20	70		
10	-16.4	-28.2	-20.3												3.00				3.00	11.33			11.33	T	6	24	20	70		
11	-17.1	-28.7	-21.0		1.00			1.00			4.00		1.50	5.50	3.00	6.00		6.00	15.00	21.50	7.40		28.90	0.01	14	76	24	60		
12	-18.0	-30.1	-22.0		2.00	1.00		3.00			5.50	3.50		9.00	6.00	6.00	4.00		16.00	24.00	9.00	4.50	37.50	T	15	81	27	60		
13	-12.4	-23.1	-16.0															2.00	2.00	9.00			9.00	0.02	5	27	15	40		
14	-12.4	-16.0	-13.6		1.00			1.00							5.00	3.00	5.00	2.00	15.00	6.00	6.00	6.00	5.00	23.00	24.00	0.06	9	66	15	40
15	-10.8	-21.1	-14.2																	2.50			2.50	T	10	95	25	170		
16	-7.7	-17.0	-10.8																						9	45	18	350		
17	-4.1	-21.4	-9.9																						10	148	21	190		
18	-4.1	-9.3	-5.8													1.00	0.50		1.50	6.50			6.50	T	8	129	25	160		
19	-7.3	-15.5	-10.0																	5.70			5.70	T	8	60	23	60		
20	-12.2	-20.6	-15.0																	8.00			8.00	T	9	62	21	60		
21	-15.4	-24.2	-18.3														0.50	3.90	4.40	14.25			14.25	0.04	8	57	17	40		
22	-15.6	-26.4	-19.2																	2.50			2.50	T	9	56	20	40		
23	-17.8	-23.4	-19.7																						4	65	15	40		
24	-19.0	-27.0	-21.7																	2.83			2.83	T	12	87	27	90		
25	-21.7	-29.2	-24.2																	5.60			5.60	T	14	60	25	60		
26	-25.9	-33.0	-28.3														2.83	2.83	2.83	9.33	2.83		9.33	T	9	90	20	100		
27	-27.4	-32.0	-28.9													1.00			1.00	24.00			24.00	T	13	68	20	90		
28	-26.6	-35.6	-29.6														3.10	4.50	7.60	11.00	1.40	6.50	18.90	T	16	82	26	60		
29	-28.4	-35.4	-30.7												3.00				3.00	5.92		4.50	10.42	T	7	71	19	80		
30	-27.9	-35.2	-30.3																	9.00			9.00	T	2	50	16	60		
31																														

Monthly Statistics

Temp (C)			Visibility (hrs)												WX and Duration				Pcpn Total	Avg Wind		Max Wind		Max Gust
Max	Min	Avg	< 1600				< 4800				< 9999				sn/sg/ic	fg/br	bs	Total		Dir	Spd	Dir	Spd	
00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total										
-4.1	-35.6	-20.1	0.0	5.0	7.0	5.0	8.0	15.5	16.5	13.2	27.0	25.0	25.6	40.2	267.6	49.6	24.3	341.5	0.13	75	9	60	31	39

Temp (C)		Total Hrs =or< 1600:	Total Hrs =or< 4800:	Total Hrs < 9999:
Average		17.0	53.2	117.8
Max	Min	Total Days =or< 1600:	Total Days =or< 4800:	Total Days < 9999:
-17.2	-25.7	4	7	16
		% Hrs =or< 1600:	% Hrs =or< 4800:	% Hrs < 9999:
		2.4%	7.4%	16.4%
		% Days =or< 1600:	% Days =or< 4800:	% Days < 9999:
		13.3%	23.3%	53.3%

Total Hrs	sn/sg/ic:	fg/br:	bs:
267.6	49.6	24.3	
Total Days	sn/sg/ic:	fg/br:	bs:
26	8	5	



Max Gust
17
31
26
18
15
39
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37
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Station:
NZCM

Monthly Climatology / Page 2

Month:
APR 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	3	100																	28.79	28.53	28.66	4	0.26	10.4	-39.0
2	5	30																	29.20	28.88	29.04	4	0.32	9.0	-38.0
3	7	20																	29.25	29.22	29.24	4	0.03	5.5	-41.0
4	3	35																	29.19	28.87	29.05	4	0.32	6.7	-40.0
5	4	15																	28.77	28.71	28.74	4	0.06	7.9	-35.0
6	8	5																	29.08	28.79	28.95	4	0.29	9.7	-44.0
7	6	20																	29.16	29.10	29.13	4	0.06	5.8	-41.0
8	5	30																	29.09	29.07	29.08	4	0.02	6.3	-43.0
9	6	30																	29.13	29.08	29.11	4	0.05	9.6	-46.0
10	8	30																	29.12	28.96	29.05	4	0.16	11.8	-44.0
11	8	8																	28.94	28.86	28.90	4	0.08	11.6	-47.0
12	8	8																	28.98	28.86	28.93	4	0.12	12.1	-49.0
13	7	30																	28.86	28.84	28.85	4	0.02	10.7	-36.0
14	8	20																	29.12	28.87	28.98	4	0.25	3.6	-27.0
15	7	50																	29.23	29.18	29.21	4	0.05	10.3	-31.0
16	4	70																	29.14	28.99	29.07	4	0.15	9.3	-29.0
17	4	80																	29.36	29.18	29.30	4	0.18	17.3	-33.0
18	8	50																	29.41	29.28	29.36	4	0.13	5.2	-20.0
19	5	15																	29.19	28.98	29.09	4	0.21	8.2	-27.0
20	5	15																	29.07	28.93	28.99	4	0.14	8.4	-35.0
21	7	20																	29.55	29.17	29.35	4	0.38	8.8	-38.0
22	5	50																	29.72	29.64	29.69	4	0.08	10.8	-39.0
23	2																		29.61	29.27	29.45	4	0.34	5.6	-36.0
24	2																		29.25	29.19	29.21	4	0.06	8.0	-45.0
25	3	12																	29.34	29.26	29.31	4	0.08	7.5	-46.0
26	4	5																	29.30	29.26	29.28	4	0.04	7.1	-50.0
27	8	10																	29.30	29.18	29.26	4	0.12	4.6	-50.0
28	6	20																	29.10	28.98	29.03	4	0.12	9.0	-56.0
29	3	25																	28.96	28.93	28.94	4	0.03	7.0	-53.0
30	2																		29.03	28.96	29.00	4	0.07	7.3	-49.0
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	0.0	0.0	0.0	0.0	3.0	7.0	5.5	41.5	38.0	41.5	40.3	29.72	28.53	29.11	120	-56.0																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Total Hrs =or< 500:</td> <td>0.0</td> <td>Total Hrs =or< 1000:</td> <td>15.5</td> <td>Total Hrs =or< 3000:</td> <td>161.3</td> </tr> <tr> <td>Total Days =or< 500:</td> <td>0</td> <td>Total Days =or< 1000:</td> <td>4</td> <td>Total Days =or< 3000:</td> <td>16</td> </tr> <tr> <td>% Hrs =or< 500:</td> <td>0.0%</td> <td>% Hrs =or< 1000:</td> <td>2.2%</td> <td>% Hrs =or< 3000:</td> <td>22.4%</td> </tr> <tr> <td>% Days =or< 500:</td> <td>0.0%</td> <td>% Days =or< 1000:</td> <td>13.3%</td> <td>% Days =or< 3000:</td> <td>53.3%</td> </tr> </table>																Total Hrs =or< 500:	0.0	Total Hrs =or< 1000:	15.5	Total Hrs =or< 3000:	161.3	Total Days =or< 500:	0	Total Days =or< 1000:	4	Total Days =or< 3000:	16	% Hrs =or< 500:	0.0%	% Hrs =or< 1000:	2.2%	% Hrs =or< 3000:	22.4%	% Days =or< 500:	0.0%	% Days =or< 1000:	13.3%	% Days =or< 3000:	53.3%
Total Hrs =or< 500:	0.0	Total Hrs =or< 1000:	15.5	Total Hrs =or< 3000:	161.3																																		
Total Days =or< 500:	0	Total Days =or< 1000:	4	Total Days =or< 3000:	16																																		
% Hrs =or< 500:	0.0%	% Hrs =or< 1000:	2.2%	% Hrs =or< 3000:	22.4%																																		
% Days =or< 500:	0.0%	% Days =or< 1000:	13.3%	% Days =or< 3000:	53.3%																																		
<table border="1" style="border-collapse: collapse;"> <tr> <td>Total Days</td> <td>30</td> </tr> </table>																Total Days	30																						
Total Days	30																																						

