

McMurdo Station Daily Observation Worksheet

Date: 01

Time Zulu	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					-16.2	-17.2											16	100	1230	21	90	1229											
15-18Z	80	11	-18.4	-23.6	-16.9	-18.9	3.0	3.0	4.0	SN	4.0	BR	3.0				0.01	16	60	1645	20	60	1637	7	25				3.0	29.03	979.2	3006	983.6
18-21Z					-16.9	-21.2												15	120	1959	19	60	1810										
21-24Z	80	13	-18.3	-27.0	-14.7	-19.6												16	60	2311	20	60	2328	1	120				29.07	980.4	1002	984.7	0.9
12 hr Max/Min																																	
00-03Z					-15.0	-19.0												19	60	240	25	60	244										
03-06Z	60	20	-15.7	-28.1	-15.2	-16.6												24	60	549	32	60	542	6	35				29.05	979.9	8001	984.3	
06-09Z					-14.9	-15.9													24	60	739	32	60	623									
09-12Z	60	15	-14.9	-26.7	-14.6	-15.0												21	60	929	26	70	928	7	38				29.08	980.7	1005	985.0	2.0
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								
68 15		-14.6		-21.2		-16.8		00-06L 3.0 3.0 4.0			-34.0 -29.2		4.0 3.0 0.0			0.01	60 24 549			60 32 542			5	25	00-06L 0.0 0.0 3.0								
								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									29.08 29.03 29.06			Taken Diff Diff					18-24L 0.0 0.0 0.0								
																	4 0.05 6.6																

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

Note 2: Duration should be fractions of an hour.

Note 3: To facilitate MS Excel, the order 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					-14.6	-15.3										17	60	1302	20	60	1330					
15-18Z	60	11	-15.4	-26.7	-13.7	-15.4										15	60	1740	20	60	1739	7	38			
18-21Z					-15.4	-19.4										21	70	2034	28	70	2016					
21-24Z	80	19	-18.8	-26.0	-18.3	-19.3			1.0	SN	5.8				T	24	60	2201	29	60	2201	8	30			
12 hr Max/Min					-13.7	-19.4																				
00-03Z					-18.7	-19.7										19	80	0	24	100	47					
03-06Z	90	13	-18.3	-26.0	-18.3	-19.0			6.0	SN	6.0				T	17	90	322	24	100	320	8	60			
06-09Z					-18.3	-19.2										18	60	826	21	60	826					
09-12Z	70	13	-16.6	-26.7	-16.6	-19.0			2.3	SN	6.0				T	17	60	916	21	70	909	7	50			
12 hr Max/Min					-16.6	-19.7																				
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	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000	
76	14	-13.7	-19.7	-15.7	00-06L	0.0	0.0	0.0	-34.0	-29.2	17.8	0.0	0.0	T	60	24	2201	60	29	2201			00-06L	0.0		
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																Max	Min	Avg	4	0.18	6.0					
																29.26	29.08	29.17								

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Note 2: Duration should be fractions of an hour.

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

02

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.08	980.7	5003	985.1	
	29.14	982.7	3011	987.1	2.3
	29.19	984.6	1008	989.1	
	29.26	986.8	1010	991.3	6.1

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)								
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z					-15.9	-16.7										16	60	1219	20	60	1219											
15-18Z	60	11	-14.8	-25.6	-14.8	-15.9				SN	2.0				T	15	60	1504	19	60	1532	7	90									
18-21Z					-14.0	-14.7										13	60	1927	19	60	1923											
21-24Z	70	13	-13.1	-28.3	-13.1	-14.1										14	60	2331	18	60	2337	6	90									
12 hr Max/Min					-13.1	-16.7																										
00-03Z					-12.1	-13.7										10	110	524	19	60	100											
03-06Z	100	6	-11.7	-26.8	-8.9	-12.2										10	110	524	12	110	523	1										
06-09Z					-9.4	-11.9										6	330	743	8	320	750											
09-12Z	120	9	-12.1	-21.8	-11.0	-13.1										11	120	1147	15	110	1150	4										
12 hr Max/Min					-8.9	-13.7																										
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			Time	<500	<1000					
83	10			-8.9	-16.7	-11.5	00-06L	0.0	0.0	0.0	-28.0	-18.4	2.0	0.0	0.0	T	60	16	1219	60	20	1219	5	90	00-06L	0.0						
																	Altimeter															
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																	29.37	29.29	29.34	4	0.08	7.8										

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03

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.29	988.1	1005	992.5	
	29.34	989.7	1006	994.0	7.0
	29.36	990.3	3002	994.7	
	29.37	990.5	3003	994.9	3.7

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)					Pcpn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-9.6	-12.4									12	80	1449	15	90	1448										
15-18Z	80	12	-13.9	-21.7	-11.7	-17.8									16	90	1720	20	110	1625	4									
18-21Z					-13.2	-17.5									20	90	1936	25	90	1957										
21-24Z	70	16	-17.1	-27.6	-16.9	-17.6									24	60	2148	28	60	2319	7	50								
12 hr Max/Min					-9.6	-17.8																								
00-03Z					-16.1	-17.0									22	60	26	27	60	25										
03-06Z	70	14	-15.5	-28.6	-15.5	-16.5									22	60	310	26	60	312	7	55								
06-09Z					-15.0	-15.6									16	70	657	22	60	639										
09-12Z	70	9	-13.8	-29.8	-13.9	-15.1									14	60	915	17	60	914	7	60								
12 hr Max/Min					-13.9	-17.0																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
72	13	-9.6	-17.8	-12.3	00-06L	0.0	0.0	0.0	-31.0	-23.8	0.0	0.0	0.0	0.00	60	24	2148	60	28	2319	6	50	00-06L	0.0	0.0					
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															Max	Min	Avg	4	0.04	8.2										
															29.37	29.33	29.35													

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04

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.36	990.2	8003	994.6	
	29.37	990.7	0000	995.1	1.0
	29.34	989.7	5001	994.0	
	29.33	989.2	6005	993.6	1.3

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)						
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-13.1	-14.4									14	70	1258	14	80	1257										
15-18Z	40	3	-13.6	-28.7	-13.1	-13.7									11	60	1539	11	70	1538	1	60								
18-21Z					-11.7	-13.6									7	60	1857	8	60	1901										
21-24Z	70	13	-14.9	-28.8	-11.8	-16.2									14	70	2342	19	70	2339	1									
12 hr Max/Min					-11.7	-16.2																								
00-03Z					-13.9	-15.2									17	40	235	21	40	246										
03-06Z	40	10	-14.0	-27.3	-13.8	-15.5									17	40	504	21	40	402	1									
06-09Z					-11.6	-14.0									14	40	629	16	40	628										
09-12Z	50	6	-10.8	-24.6	-10.7	-12.2									9	40	920	10	40	919	7	35								
12 hr Max/Min					-10.7	-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	Time	Time	Time	Time	Time	Time	Time			
54	8	-10.7	-16.2	-12.5	00-06L	0.0	0.0	0.0	-27.0	-16.6	0.0	0.0	0.0	0.00	40	17	235	40	21	246	3	35	00-06L	0.0	0.0	0.0	0.0			
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
															Max	Min	Avg	4	0.04	5.5										
															29.29	29.25	29.27													

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05

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.29	987.8	8006	992.2	
	29.28	987.6	8001	991.9	3.1
	29.26	986.8	5001	991.2	
	29.25	986.5	8002	990.8	2.7

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

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: 06

Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	4.0	29.27	987.1	3006	991.5
	4.8	29.33	989.2	3009	993.6
	29.35	990.0	2006	994.4	
	29.38	991.0	3001	995.4	4.5

(hrs)	
<1000	<3000
0.0	4.0
0.0	4.8
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					-14.0	-16.1									17	60	1240	22	60	1239												
15-18Z	60	14	-17.6	-28.4	-13.6	-17.6									15	60	1705	18	40	1750	8	150										
18-21Z					-11.3	-17.9									18	40	1825	20	40	1901												
21-24Z	110	8	-12.4	-25.9	-11.5	-12.5									12	90	2345	19	110	2145	8	85										
12 hr Max/Min					-11.3	-17.9																										
00-03Z					-11.7	-12.8									15	90	105	20	110	243												
03-06Z	50	12	-14.2	-24.9	-11.6	-14.7									16	90	405	23	150	300	8	90										
06-09Z					-14.0	-17.4									18	50	849	23	50	831												
09-12Z	80	19	-16.6	-26.9	-15.3	-17.8									23	60	938	28	60	938	8	90										
12 hr Max/Min					-11.6	-17.8																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
72	13			-11.3	-17.9	-13.5	00-06L	0.0	0.0	0.0	-31.0	-23.8	0.0	0.0	0.0	0.00	60	23	938	60	28	938	8	85	00-06L	0.0						
							06-12L	0.0	0.0	0.0								Altimeter					06-12L	0.0								
							12-18L	0.0	0.0	0.0											Total Obs Taken	Daily Pres Diff	Daily Temp Diff	12-18L	0.0							
							18-24L	0.0	0.0	0.0											29.38	29.36	29.38	4	0.02	6.6	18-24L	0.0				

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07

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.38	990.7	8001	995.2	
	29.38	991.0	3004	995.3	1.8
	29.38	990.7	0000	995.1	
	29.36	990.2	6005	994.6	0.8

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					-16.2	-17.3										22	60	1205	27	70	1349						
15-18Z	80	22	-17.0	-27.8	-16.3	-17.5										22	70	1615	28	60	1738	7	70				
18-21Z					-17.1	-18.7										22	70	2046	29	80	1906						
21-24Z	80	21	-19.0	-28.0	-18.7	-19.2										23	70	2349	31	80	2142	7	40				
12 hr Max/Min					-16.2	-19.2																					
00-03Z					-19.0	-19.6										27	90	112	30	90	113						
03-06Z	70	18	-19.9	-26.3	-18.9	-19.9		6.0	SN		6.0					24	70	504	29	60	504	8	40				
06-09Z					-19.9	-20.6										21	80	724	27	70	634						
09-12Z	70	15	-20.3	-25.7	-19.8	-20.8		6.0	SN		6.0					21	70	1008	29	70	1008	8	40				
12 hr Max/Min					-18.9	-20.8																					
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
76	19		-16.2	-20.8	-17.7		00-06L	0.0	0.0	0.0		-35.0	-31.0	15.8	0.0	0.0	T	90	27	112	80	31	2142	8	40	00-06L	0.0
							06-12L	0.0	0.0	0.0								Altimeter			Total	Daily	Daily			06-12L	0.0
							12-18L	0.0	0.0	0.0								Max	Min	Avg	Obs	Pres	Temp			12-18L	0.0
							18-24L	0.0	0.0	6.0								29.30	29.23	29.27	Taken	Diff	Diff			18-24L	0.0
																					4	0.07	4.6				

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.

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: 08

Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.30	988.1	8009	992.5	
	29.28	987.3	8005	991.8	3.7
	29.25	986.5	5004	990.9	
	29.23	985.8	6004	990.2	4.4

(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					-19.7	-20.2																										
15-18Z	80	18	-20.2	-25.2	-19.8	-20.2									T	19	80	1458	23	80	1738	8	40									
18-21Z					-20.1	-21.1																										
21-24Z	70	17	-20.4	-28.5	-20.0	-21.1									T	21	80	2246	26	80	2245	8	45									
12 hr Max/Min					-19.7	-21.1																										
00-03Z					-18.5	-20.3																										
03-06Z	70	17	-19.3	-30.8	-18.8	-19.7									T	20	70	328	25	60	405	8	45									
06-09Z					-19.7	-21.2																										
09-12Z	70	14	-19.2	-27.4	-19.2	-20.3									T	16	70	900	20	60	1114	7	45									
12 hr Max/Min					-18.5	-21.2																										
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					
73	17			-18.5	-21.2	-19.4	00-06L	0.0	0.0	0.0	-35.0	-31.0	24.0	0.0	0.0	T	80	21	2246	80	26	2245	8	40	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.03	2.7										
																	29.24	29.21	29.23													

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

Note 2: Duration should be fractions of an hour.

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

: 09

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
	29.21	985.3	1003	989.7	
	29.24	986.3	2007	990.7	1.0
	29.24	986.1	3004	990.6	
	29.24	986.3	8002	990.8	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					-18.9	-19.2																						
15-18Z	80	11	-19.1	-25.9	-18.9	-19.2									T	15	70	1533	18	70	1711	8	35					
18-21Z					-19.2	-20.6																						
21-24Z	80	9	-19.6	-24.2	-19.4	-21.1		2.5	3.0	SN	6.0	BR	3.0			0.01	15	80	2150	18	70	2150	7	35				
12 hr Max/Min					-18.9	-21.1																						
00-03Z					-19.6	-21.1											15	80	223	19	70	143						
03-06Z	90	10	-20.3	-24.6	-19.1	-20.7				SN	6.0				T	18	70	408	23	70	405	8	40					
06-09Z					-19.9	-21.6											20	70	845	25	70	844						
09-12Z	90	15	-23.1	-28.7	-21.6	-23.1				SN	6.0				T	22	60	1025	28	60	1025	7	40					
12 hr Max/Min					-19.1	-23.1																						
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	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	<1000		
86	11	-18.9	-23.1	-20.3	00-06L	0.0	0.0	0.0	-38.0	-36.4	24.0	3.0	0.0	0.01	60	22	1025	60	28	1025	8	35	00-06L	0.0	0.0			
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
																29.38	29.25	29.31	4	0.13	4.2							

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

Note 2: Duration should be fractions of an hour.

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

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s)	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.25	986.5	6002	990.9	
	29.29	988.0	1009	992.4	1.7
	29.32	989.0	3005	993.4	
	29.38	990.9	3010	995.3	4.6

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

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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					-23.1	-24.0																					
15-18Z	70	19	-24.9	-30.6	-23.2	-25.1									T	24	60	1445	29	60	1445		7	60			
18-21Z					-21.2	-24.8																					
21-24Z	70	15	-21.4	-28.1	-20.8	-24.0																					
12 hr Max/Min					-20.8	-25.1																					
00-03Z					-20.1	-24.4																					
03-06Z	70	15	-21.6	-28.2	-20.1	-24.0																					
06-09Z					-19.5	-21.8																					
09-12Z	100	13	-18.4	-23.2	-18.4	-22.3									T	23	60	1115	27	60	1115		8	30			
12 hr Max/Min					-18.4	-24.4																					
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			
76	16				00-06L	0.0	0.0	0.0	-41.0	-41.8	8.5	0.0	0.0	T	60	25	307	60	30	1501	8	30	00-06L	0.0			
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															Max	Min	Avg	4	0.13	6.7							
															29.57	29.44	29.52										

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	29.44	992.9	1014	997.5	
	29.52	995.6	1014	1000.1	7.6
	29.54	996.4	3006	1001.0	
	29.57	997.1	1002	1001.7	6.2

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)					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					-18.3	-22.7																										
15-18Z	100	13	-16.2	-21.2	-16.1	-18.4									T	17	100	1744	26	80	1601	8	30									
18-21Z					-15.2	-17.7																										
21-24Z	110	14	-16.1	-20.9	-14.9	-17.8									T	19	130	2234	28	150	2148	8	40									
12 hr Max/Min					-14.9	-22.7																										
00-03Z					-14.5	-16.8																										
03-06Z	150	16	-13.1	-18.8	-12.6	-14.8									T	19	160	537	31	150	322	8	40									
06-09Z					-12.4	-13.5																										
09-12Z	0	0	-13.2	-17.9	-12.9	-15.1									T	18	70	1014	26	60	1013	8	40									
12 hr Max/Min					-12.4	-16.8																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
122	11			-12.4	-22.7	-15.8	00-06L	0.0	0.0	0.0	-38.0	-36.4	21.9	0.0	0.0	T	60	22	1335	140	32	114	8	30	00-06L	0.0						
																	Altimeter															
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																	29.62	29.60	29.61	4	0.02	10.3										

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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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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.60	998.1	6001	1002.7	
	29.62	999.0	5000	1003.5	3.4
	29.60	998.5	8005	1002.9	
	29.60	998.1	6007	1002.6	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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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)			
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z					-13.2	-15.6																					
15-18Z	140	15	-14.0	-18.6	-13.9	-15.3									T	22	150	1458	30	140	1500	8	30				
18-21Z					-13.5	-14.7																					
21-24Z	70	9	-14.4	-19.8	-14.2	-15.2									T	17	140	2122	26	150	2119	6	30				
12 hr Max/Min					-13.2	-15.6																					
00-03Z					-13.6	-15.7																					
03-06Z	60	11	-16.2	-22.0	-12.9	-16.3									T	14	60	542	20	60	541	1	30				
06-09Z					-15.8	-16.9																					
09-12Z	50	6	-14.9	-25.1	-14.5	-16.7																					
12 hr Max/Min					-12.9	-16.9																					
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000		
88	10	-12.9	-16.9	-14.2	00-06L	0.0	0.0	0.0	-39.0	-38.2	13.0	0.0	0.0	T	150	22	1458	140	30	1500			00-06L	0.0			
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	Avg Sky Cover	Low-est CIG	Ceiling			
																29.57	29.43	29.52	4	0.14	4.0	4	30	06-12L	0.0		
																								12-18L		0.0	
																								18-24L		0.0	

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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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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.57	997.3	8003	1001.7	
	29.57	997.5	8003	1001.9	1.5
	29.50	994.9	6012	999.3	
	29.43	992.6	6015	996.8	5.5

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	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000				
12-15Z					-14.4	-15.8									7	40	1235	9	40	1234										
15-18Z	50	3	-16.2	-26.8	-14.9	-16.5									4	60	1742	6	80	1650	1									
18-21Z					-14.0	-16.6									4	40	1935	4	90	2048										
21-24Z	350	7	-10.2	-16.9	-10.1	-15.7									7	60	2316	9	60	2315	0									
12 hr Max/Min					-10.1	-16.6																								
00-03Z					-8.3	-10.1									14	330	233	22	320	58										
03-06Z	330	10	-8.5	-18.0	-8.1	-8.8									16	350	428	22	350	430	0									
06-09Z					-8.5	-20.4									14	350	839	20	360	728										
09-12Z	80	6	-16.8	-20.3	-9.5	-21.9									14	350	945	20	360	944	1									
12 hr Max/Min					-8.1	-21.9																								
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000					
6	7	-8.1	-21.9	-12.7	00-06L	0.0	0.0	0.0	-34.0	-29.2	0.0	0.0	0.0	0.00	350	16	428	320	22	58	1		00-06L	0.0						
																		Altimeter												
																		Max			Total Obs Taken		Daily Pres Diff		Daily Temp Diff					
																		29.34 29.06 29.16			4		0.28		13.8					

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)			
<3000	29.34	989.5	6016	994.0	
	29.19	984.4	8026	988.8	13.1
	29.06	980.2	6018	984.5	
	29.06	980.0	6002	984.4	12.6

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)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)				
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		
12-15Z					-11.1	-20.0																						
15-18Z	100	12	-20.0	-24.6	-12.6	-23.6												11	70	1240	14	90	1237					
18-21Z					-19.0	-23.5												14	100	1742	18	100	1716	1				
21-24Z	70	20	-23.0	-30.3	-20.6	-23.2												26	110	1824	32	100	2012					
12 hr Max/Min					-11.1	-23.6												23	80	2344	28	70	2317	1				
00-03Z					-21.5	-22.8												22	80	212	28	60	125					
03-06Z	80	17	-22.1	-30.4	-21.3	-22.0												20	80	531	25	70	548	7	30			
06-09Z					-21.9	-22.4													21	80	759	29	60	723				
09-12Z	100	16	-22.8	-32.8	-21.0	-22.8				SN	2.5							T	18	100	1150	26	70	907	8	30		
12 hr Max/Min					-21.0	-22.8																						
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling			
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000			
86	16	-11.1	-23.6	-15.3	00-06L	0.0	0.0	0.0	-41.0	-41.8	2.5	0.0	0.0	0.0	T	110	26	1824	100	32	2012			00-06L	0.0			
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
															29.30	29.11	29.23	4	0.19	12.5								

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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.11	981.7	3012	986.0	
	29.23	985.9	1017	990.3	1.5
	29.28	987.6	1005	992.0	
	29.30	988.3	3005	992.9	8.3

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					-22.5	-23.3																										
15-18Z	90	18	-22.5	-29.7	-22.5	-23.4									T	22	90	1619	27	100	1616	8	40									
18-21Z					-22.4	-23.1																										
21-24Z	90	20	-23.6	-28.9	-22.7	-23.6									T	24	90	2347	27	90	2346	8	40									
12 hr Max/Min					-22.4	-23.6																										
00-03Z					-22.6	-23.5																										
03-06Z	90	26	-23.8	-28.9	-22.9	-23.8																										
06-09Z					-23.7	-24.0																										
09-12Z	80	20	-23.5	-28.8	-23.2	-24.1																										
12 hr Max/Min					-22.6	-24.1																										
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		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
88	21			-22.4	-24.1	-23.0	00-06L	0.0	0.0	0.0	-41.0	-41.8	10.0	0.0	0.0	T	90	27	602	90	31	540	8	40	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.05	1.7										
																	29.35	29.30	29.32													

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)			
	29.32	989.0	1007	993.4	
	29.35	989.8	3002	994.4	3.9
	29.32	988.8	6005	993.5	
	29.30	988.1	5007	992.8	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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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					-18.9	-23.5									20	80	1211	25	90	1311								
15-18Z	50	7	-15.8	-21.7	-15.8	-18.8									15	100	1502	18	60	1705	5	60						
18-21Z					-14.5	-20.0									12	90	1910	13	90	1909								
21-24Z	0	0	-14.4	-19.9	-13.8	-18.9									4	50	2112	5	80	2106	7	60						
12 hr Max/Min					-13.8	-23.5																						
00-03Z					-11.0	-14.0									10	320	209	13	320	215								
03-06Z	330	6	-11.0	-15.7	-10.5	-13.4									11	330	540	16	320	548	7	18						
06-09Z					-10.9	-11.4									13	350	729	16	360	729								
09-12Z	0	0	-11.5	-15.8	-10.9	-12.5									13	350	931	17	350	931	8	18						
12 hr Max/Min					-10.5	-14.0																						
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 Cover	est CIG	Time	<500	
14	3		-10.5	-23.5	-14.8			00-06L	0.0	0.0	0.0	-38.0	-36.4	0.0	0.0	0.0	0.00	80	20	1211	90	25	1311	7	18	00-06L	0.0	
								06-12L	0.0	0.0	0.0							Altimeter								06-12L	0.0	
								12-18L	0.0	0.0	0.0								Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0.0
								18-24L	0.0	0.0	0.0								29.27	29.14	29.22	4	0.13	13.0			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 changed from conventional. The order is: Spd, Dir and Time.

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Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.27	987.3	8005	991.7	
	29.26	986.8	8003	991.2	3.0
4.0	29.20	984.8	6007	989.1	
3.0	29.14	982.9	6014	987.2	5.2

1 (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	4.0
0.0	3.0

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					Pcprn Amt	Max Wind (Note 3)			Max Gust (Note 3)			Avg Sky Cover	Low-est CIG	Ceiling (hr)								
	Dir	Spd	Temp		Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000						
12-15Z					-11.5	-13.5										5	80	1350	7	80	1339											
15-18Z	100	9	-12.9	-17.7	-11.1	-13.2										9	90	1750	11	90	1750	8	50									
18-21Z					-12.1	-14.7										25	160	2049	30	140	2045											
21-24Z	170	28	-14.3	-18.2	-11.6	-14.7		1.7	1.9	SN	5.3				T	34	170	2327	42	180	2326	8	30									
12 hr Max/Min					-11.1	-14.7																										
00-03Z					-13.3	-14.5										39	190	102	50	190	47											
03-06Z	170	34	-15.4	-20.5	-13.9	-15.6			0.5	SN	2.0				T	35	170	512	48	180	419	8	30									
06-09Z					-13.3	-15.4										34	170	557	38	160	557											
09-12Z	170	18	-13.1	-19.0	-12.8	-14.3										29	170	1116	35	180	1116	8	60									
12 hr Max/Min					-12.8	-15.6																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcprn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000					
164	22			-11.1	-15.6	-12.6	00-06L	0.0	0.0	0.0	-31.0	-23.8	7.3	0.0	0.0	T	190	39	102	190	50	47	8	30	00-06L	0.0						
																	Altimeter															
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																	29.22	29.08	29.12	4	0.14	4.5										

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.

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
	29.08	980.7	6007	985.0	
	29.08	980.7	3012	985.0	6.1
	29.11	981.9	0009	986.3	
	29.22	985.9	1016	990.2	3.0

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

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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					-12.6	-14.7									25	170	1325	33	170	1324						
15-18Z	80	9	-13.6	-21.7	-13.1	-14.7									16	120	1525	23	120	1525	6	70				
18-21Z					-12.6	-13.6									12	90	1827	15	100	1826						
21-24Z	70	3	-10.2	-17.4	-8.9	-13.3									7	350	2157	9	360	2200	6	35				
12 hr Max/Min					-8.9	-14.7																				
00-03Z					-8.8	-11.4									5	320	249	7	340	238						
03-06Z	310	6	-9.2	-14.2	-8.9	-9.9			SN	3.0					8	330	534	11	320	522	8	30				
06-09Z					-9.0	-9.2									11	330	826	15	330	826						
09-12Z	350	9	-8.8	-15.7	-8.8	-9.2			SN	2.5					10	350	1141	13	350	1149	8	30				
12 hr Max/Min					-8.8	-11.4																				
Avg Wind		Dir	Spd	Temp	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling	
Time	<1600							<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Dir		Spd	Time	Dir	Spd	Time	Total Obs Taken			Daily Pres Diff	Daily Temp Diff
20	7			-8.8	-14.7	-10.8	00-06L	0.0	0.0	0.0	-28.0	-18.4	5.5	0.0	0.0	T	170	25	1325	170	33	1324	7	30	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	28.95	29.07	4	0.24	5.9					

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 changed from conventional. The order is: Spd, Dir and Time.

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Station	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.19	984.4	6012	988.7	
	29.11	981.7	7013	986.1	1.0
	29.02	978.7	6015	982.9	
	28.95	976.5	6012	980.6	9.4

(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					-8.6	-11.4										9	330	1421	14	340	1345											
15-18Z	80	10	-12.7	-16.3	-11.1	-12.7										10	70	1750	14	80	1727	5	80									
18-21Z					-12.4	-14.2										14	60	2017	17	60	2016											
21-24Z	150	8	-13.6	-19.3	-13.2	-14.3				SN	0.4					12	100	2304	16	90	2215	6	35									
12 hr Max/Min					-8.6	-14.3																										
00-03Z					-11.8	-13.5										11	140	46	15	140	45											
03-06Z	360	6	-11.1	-15.3	-11.1	-12.5			0.5	SN	6.0					9	350	540	10	360	540	8	30									
06-09Z					-10.8	-12.3										7	100	635	9	100	634											
09-12Z	0	0	-12.3	-17.0	-12.1	-13.0			4.5	SN	5.0				0.02	4	30	1134	5	360	1145	8	30									
12 hr Max/Min					-10.8	-13.5																										
Avg Wind				Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd			Temp	Temp	Temp	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					
87	6			-8.6	-14.3	-10.5	00-06L	0.0	0.0	0.0	-24.0	-11.2	11.4	0.0	0.0	0.02	60	14	2017	60	17	2016	7	30	00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.05	5.7										
																	28.96	28.91	28.94													

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
	28.91	975.1	6004	979.4	
	28.96	976.6	1009	980.9	5.1
	28.95	976.5	3001	980.8	
	28.93	975.8	8004	980.1	0.7

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					-9.1	-12.3																														
15-18Z	60	8	-12.2	-19.8	-9.5	-12.4									T	9	70	1748	12	70	1747	7	90													
18-21Z					-10.7	-12.3																														
21-24Z	160	20	-11.5	-15.5	-10.7	-12.0									T	20	170	2349	23	170	2348	8	30													
12 hr Max/Min					-9.1	-12.4																														
00-03Z					-10.3	-12.0																														
03-06Z	10	4	-10.1	-17.2	-10.1	-12.1									T	15	40	320	19	40	319	8	30													
06-09Z					-9.1	-10.0																														
09-12Z	70	7	-9.8	-12.7	-9.8	-10.5	1.0	2.0	2.5	SN					0.07	11	40	1109	13	70	1117	8	25													
12 hr Max/Min					-9.1	-12.1																														
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	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500											
112	10		-9.1	-12.4	-10.2	00-06L	0.0	0.0	0.0	-23.0	-9.4	9.3	0.0	0.0	0.07	170	20	2349	170	23	2348	8	25	00-06L	0.0											
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff															
																Max	Min	Avg	4	0.11	3.3															
																28.90	28.79	28.85																		

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	8005	979.1	
	28.88	974.1	6005	978.4	2.5
	28.82	972.2	6015	976.4	
2.5	28.79	970.9	6010	975.1	4.9

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					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					-8.8	-10.7	1.0	0.5	1.0	SN					1.5	T	26	170	1344	32	170	1326								
15-18Z	60	12	-10.1	-14.0	-8.8	-10.7											27	170	1530	37	170	1529	8	25						
18-21Z					-8.3	-9.9											16	140	2001	23	140	2001								
21-24Z	160	26	-11.1	-14.7	-8.0	-11.2				SN				3.0		T	33	160	2331	40	160	2331	8	45						
12 hr Max/Min					-8.0	-11.2																								
00-03Z					-11.0	-13.1											27	160	2357	37	150	138								
03-06Z	90	10	-13.2	-18.3	-12.6	-14.0			4.5	SN	4.0	BR	4.5		T	21	150	257	31	160	257	7	20							
06-09Z					-13.4	-15.5											21	60	834	26	60	830								
09-12Z	70	15	-16.9	-22.0	-15.3	-17.2				SN	6.0				T	23	60	1147	27	60	1102	7	20							
12 hr Max/Min					-11.0	-17.2																								
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	Total	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000				
107	16	-8.0	-17.2	-11.1	00-06L	1.0	0.5	1.0	-30.0	-22.0	19.0	4.5	1.5	T	160	33	2331	160	40	2331	8	20	00-06L	0.0	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																28.98	28.81	28.91	4	0.17	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.

: 22

s)	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000					
2.0	28.81	971.6	0019	975.8	
	28.88	973.9	3008	978.2	0.2
4.0	28.98	977.5	1017	981.8	
2.5	28.96	976.6	8004	981.0	5.7
y (hrs)					
<1000	<3000				
0.0	2.0				
0.0	0.0				
0.0	4.0				
0.0	2.5				

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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					-16.9	-18.5																					
15-18Z	60	18	-19.7	-26.3	-18.0	-20.1									T	21	60	1741	28	60	1741	4	110				
18-21Z					-19.4	-20.6																					
21-24Z	80	20	-21.9	-27.4	-20.6	-21.9									T	21	70	2347	28	70	2259	8	40				
12 hr Max/Min					-16.9	-21.9																					
00-03Z					-21.8	-22.4																					
03-06Z	80	19	-22.4	-29.4	-22.3	-22.7									T	24	100	415	30	100	305	8	25				
06-09Z					-22.4	-23.4																					
09-12Z	80	19	-23.1	-29.4	-23.0	-23.4									T	22	70	1039	28	80	1038	8	25				
12 hr Max/Min					-21.8	-23.4																					
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	<500	<1000		
75	19				00-06L	0.0	0.0	0.0	-39.0	-38.2	18.8	0.0	0.0	T	90	25	723	90	31	209	7	25	00-06L	0.0			
															Altimeter												
															Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
															29.05	28.94	28.98	4	0.11	6.5							

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.94	976.0	5002	980.4	
	28.95	976.6	0001	981.0	2.7
	3.3	28.99	977.7	3008	982.0
	6.0	29.05	979.7	3012	984.2

j (hrs)	
<1000	<3000
0.0	0.0
0.0	0.0
0.0	3.3
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					-22.9	-23.2																				
15-18Z	100	18	-22.8	-29.4	-22.5	-22.9									T	20	100	1345	27	80	1426					
18-21Z					-22.8	-23.0																				
21-24Z	90	16	-23.2	-30.6	-22.7	-23.2									T	24	90	2310	29	90	2231	8	25			
12 hr Max/Min					-22.5	-23.2																				
00-03Z					-23.2	-24.2																				
03-06Z	80	17	-23.8	-30.4	-23.6	-24.4									T	26	90	438	29	90	441	8	25			
06-09Z					-23.5	-24.6																				
09-12Z	80	19	-24.7	-30.2	-24.1	-24.7									T	21	80	1059	25	80	1137	8	25			
12 hr Max/Min					-23.2	-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	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Time	<500	<1000	
87	18	-22.5	-24.7	-23.2	00-06L	0.0	0.0	0.0	-41.0	-41.8	24.0	0.0	0.0	0.0	T	90	26	438	90	29	2231			00-06L	0.0	
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
																29.14	29.09	29.12	4	0.05	2.2					

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)			
6.0	29.09	981.2	1012	985.8	
6.0	29.14	982.7	2003	987.3	6.1
6.0	29.13	982.6	6003	987.0	
6.0	29.11	981.9	8010	986.4	2.2

j (hrs)	
<1000	<3000
0.0	6.0
0.0	6.0
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)					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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000						
12-15Z					-24.7	-25.6																									
15-18Z	70	19	-26.2	-31.0	-25.7	-26.5	2.0	3.0	3.0	SN				6.0			BS		3.0	T	20	70	1320	28	80	1215	8	10			
18-21Z					-24.8	-26.2															23	60	1838	29	60	1826					
21-24Z	80	9	-23.7	-28.3	-23.3	-24.8	3.0	3.0	3.0	SN				6.0			BS		3.0	T	21	60	2100	27	60	2100	8	10			
12 hr Max/Min					-23.3	-26.5																									
00-03Z					-23.3	-23.9															23	60	242	29	60	224					
03-06Z	70	21	-23.3	-27.7	-23.0	-23.4	6.0	6.0	6.0	SN				6.0	FG	6.0				T	23	60	338	29	60	327	7	4	0.5	4.0	
06-09Z					-23.2	-23.8															24	60	627	28	60	626					
09-12Z	60	18	-24.2	-29.2	-23.8	-24.2	4.0	4.5	5.5	SN				6.0	FG	5.5				T	20	60	1036	26	60	914	7	0	0.5	2.5	
12 hr Max/Min					-23.0	-24.2																									
Avg Wind		Max Temp		Min Temp		Avg Temp		Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling						
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	hrs	Dir	Spd	Time	Dir	Spd	Time	Temp	Temp	Temp	Time	<500	<1000					
69	17	-23.0	-26.5	-24.2	00-06L	2.0	3.0	3.0	-43.0	-45.4	24.0	11.5	6.0	T	60	25	1620	70	29	1648				8	0	00-06L	0.0				
																Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff										
																Max	Min	Avg	4	0.05	3.5										
																29.10	29.05	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)			
<3000					
3.0	29.10	981.5	5005	986.0	
6.0	29.08	980.7	0002	985.2	2.0
6.0	29.06	980.2	8004	984.6	
3.5	29.05	979.9	5003	984.3	2.0

j (hrs)	
<1000	<3000
0.0	3.0
0.0	6.0
4.0	6.0
2.5	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					-24.1	-24.7																										
15-18Z	80	15	-25.7	-30.8	-24.7	-25.7									T	19	60	1621	26	60	1549	8	70									
18-21Z					-25.0	-25.9																										
21-24Z	70	14	-24.2	-31.6	-23.6	-25.7																										
12 hr Max/Min					-23.6	-25.9																										
00-03Z					-23.6	-25.6																										
03-06Z	60	12	-25.7	-32.3	-23.8	-25.9									T	16	60	544	21	60	425	7	50									
06-09Z					-25.2	-27.4																										
09-12Z	110	8	-24.9	-34.6	-24.8	-26.9																										
12 hr Max/Min					-23.6	-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	hrs	Dir	Spd	Time	Dir	Spd	Time	Avg	Low-est	Time	<500	<1000							
77	12	-23.6	-27.4	-24.9	00-06L	0.0	0.0	0.0	-42.0	-43.6	6.0	0.0	0.0	0.0	T	60	20	1238	60	26	1549	6	50	00-06L	0.0							
																		Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																		29.12	29.06	29.09	4	0.06	3.8									

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
	29.06	980.2	3000	984.7	
	29.08	980.9	1002	985.3	0.2
	29.09	981.2	1006	985.8	
	29.12	982.2	3006	986.7	2.3

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

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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					-25.0	-28.2									16	60	1449	21	60	1441						
15-18Z	40	12	-27.3	-36.3	-26.7	-29.3									19	60	1723	25	60	1722	3					
18-21Z					-26.4	-29.4									17	40	1810	22	60	1807						
21-24Z	70	7	-25.2	-36.9	-25.2	-29.0									19	60	2244	22	60	2244	7	70				
12 hr Max/Min					-25.0	-29.4																				
00-03Z					-22.9	-25.3									8	60	20	10	60	20						
03-06Z	120	3	-23.8	-35.3	-23.3	-23.9									6	90	422	8	100	342	7	70				
06-09Z					-23.6	-25.8									5	60	825	6	60	822						
09-12Z	0	0	-24.7	-34.8	-24.0	-25.9									6	80	1044	7	90	1043	1	70				
12 hr Max/Min					-22.9	-25.9																				
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	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
59	6	-22.9	-29.4	-25.1	-25.1	00-06L	0.0	0.0	0.0	-45.0	-49.0	0.0	0.0	0.0	0.00	60	19	1723	60	25	1722			00-06L	0.0	
						06-12L	0.0	0.0	0.0							Altimeter								06-12L	0.0	
						12-18L	0.0	0.0	0.0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0.0	
						18-24L	0.0	0.0	0.0							29.13	29.08	29.11	4	0.05	6.5			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
	29.12	982.1	3004	986.6	
	29.13	982.4	3001	986.8	1.5
	29.10	981.4	6005	986.0	
	29.08	980.9	6004	985.4	1.3

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

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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	-24.9									5	50	1300	5	50	1402										
15-18Z	20	3	-24.7	-30.4	-23.4	-24.8									4	360	1732	5	10	1731	1									
18-21Z					-21.7	-24.9									5	160	2001	7	150	1957										
21-24Z	170	4	-20.3	-25.8	-19.3	-24.3									5	220	2331	9	260	2301	6	180								
12 hr Max/Min					-19.3	-24.9																								
00-03Z					-19.6	-22.2									5	170	3	6	180	2										
03-06Z	0	0	-21.3	-26.5	-20.5	-21.9									3	20	508	4	20	507	6	180								
06-09Z					-20.2	-22.0									4	40	813	5	50	812										
09-12Z	360	10	-18.8	-24.6	-18.1	-20.3									14	350	1139	19	10	1125	2	180								
12 hr Max/Min					-18.1	-22.2																								
Avg Wind								Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total			Max Wind			Max Gust			Avg Sky Cover		Low-est CIG		Ceiling	
Dir	Spd	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					
11	4				00-06L	0.0	0.0	0.0	-33.0	-27.4	0.0	0.0	0.0	0.00	350	14	1139	10	19	1125	4	180	00-06L	0.0	0.0					
																	Altimeter													
																	Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
																	29.03	28.80	28.91	4	0.23	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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s)	Station				24-Hour Pressure
	Alt (in)	Press (mb)	Press Tend	SLP (mb)	
<3000	29.03	979.0	6008	983.5	
	28.96	976.6	6010	981.2	5.8
	28.86	973.4	6016	977.9	
	28.80	971.2	6009	975.6	9.7

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

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Time	Winds			Dew Pt	3 hr Temp		Visibility (hrs)			Wx and Duration (Note 2)					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					-18.8	-19.2									15	330	1319	20	360	1233												
15-18Z	350	12	-19.3	-26.7	-19.1	-19.4									15	340	1713	21	330	1713	1											
18-21Z					-18.9	-19.5									15	330	1941	22	320	1903												
21-24Z	340	13	-19.2	-26.5	-18.8	-19.4									17	330	2319	22	330	2311	1											
12 hr Max/Min					-18.8	-19.5																										
00-03Z					-18.3	-19.2									17	330	46	22	330	50												
03-06Z	330	7	-18.5	-26.6	-18.1	-18.5									13	310	432	18	320	424	1											
06-09Z					-18.4	-18.7									11	310	733	16	310	745												
09-12Z	320	5	-19.1	-24.6	-18.4	-19.1									11	340	950	15	310	926	0											
12 hr Max/Min					-18.1	-19.2																										
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					
339	9			-18.1	-19.5	-18.6	00-06L	0.0	0.0	0.0	-31.0	-23.8	0.0	0.0	0.0	0.00	330	17	2319	320	22	1903	1		00-06L	0.0						
																	Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff								
																	Max	Min	Avg	4	0.29	1.4										
																	29.07	28.78	28.91													

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	28.78	970.7	1001	975.1	
	28.84	972.7	1013	977.1	3.9
	28.93	975.8	3019	980.2	
	29.07	980.5	3023	984.9	9.3

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)					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					-18.8	-21.2									7	350	1358	10	340	1358					
15-18Z	60	3	-21.4	-26.4	-20.6	-21.7									6	80	1534	7	80	1534	1				
18-21Z					-19.4	-21.4									10	90	2023	12	70	2050					
21-24Z	120	9	-19.9	-27.0	-18.1	-20.3									12	110	2241	17	110	2221	7	180			
12 hr Max/Min					-18.1	-21.7																			
00-03Z					-18.0	-19.8									13	120	249	20	150	245					
03-06Z	130	8	-18.2	-24.4	-17.6	-18.9									14	90	402	21	120	322	4	180			
06-09Z					-17.9	-20.0									13	90	733	17	80	746					
09-12Z	60	6	-18.5	-25.1	-18.2	-19.7									19	60	958	21	60	958	3				
12 hr Max/Min					-17.6	-20.0																			
Avg Wind		Max Temp		Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpr Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling		
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd	Time	Cover	CIG	Time	<500	
103	7		-17.6	-21.7	-19.0	00-06L	0.0	0.0	0.0	-33.0	-27.4	0.0	0.0	0.0	60	19	958	120	21	322	4	180	00-06L	0.0	
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff					
															Max	Min	Avg	4	0.12	4.1					
															29.31	29.19	29.25								

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

Note 2: Duration should be fractions of an hour.

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

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Station	Station				
	Alt	Press	Press	SLP	24-Hour
<3000	(in)	(mb)	Tend	(mb)	Pressure
	29.19	984.3	1019	988.8	
	29.29	988.0	1021	992.5	15.3
	29.31	988.7	8002	993.0	
	29.22	985.6	6022	990.0	5.1

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

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Time	Winds		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	<1000				
12-15Z					-18.0	-18.8									10	40	1214	11	40	1214										
15-18Z	0	0	-20.2	-24.4	-17.6	-20.6									5	90	1720	6	70	1557	3									
18-21Z					-16.1	-20.3									9	330	1926	14	340	1925										
21-24Z	40	7	-19.7	-24.4	-19.2	-21.7									14	110	2137	16	110	2135	1									
12 hr Max/Min					-16.1	-21.7																								
00-03Z					-18.3	-19.7									7	30	2357	9	40	59										
03-06Z	0	0	-19.0	-23.7	-17.6	-20.0									5	10	457	8	350	439	1									
06-09Z					-18.8	-21.8									4	60	725	5	10	711										
09-12Z	10	3	-21.4	-25.1	-21.0	-23.9									5	10	1101	7	10	1057	0									
12 hr Max/Min					-17.6	-23.9																								
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	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				
31	3		-16.1	-23.9	-18.7	00-06L	0.0	0.0	0.0	-34.0	-29.2	0.0	0.0	0.0	0.00	110	14	2137	110	16	2135	1		00-06L	0.0					
																Altimeter			Total Obs Taken		Daily Pres Diff		Daily Temp Diff							
																29.05	28.50	28.74	4	0.55	7.8									

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

Note 2: Duration should be fractions of an hour.

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

31

Station	Station		Press Tend	SLP (mb)	24-Hour Pressure
	Alt (in)	Press (mb)			
<3000	29.05	979.7	8030	984.1	
	28.82	972.1	8037	976.4	15.9
	28.60	964.8	6031	969.1	
	28.50	961.4	6011	965.6	24.2

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

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Dir,

Station:
NZCM

Monthly Climatology / Page 1

Month:
MAR 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	-14.6	-21.2	-16.8	3.03					3.03	3.03					4.00				4.00	4.00	3.03		7.03	0.01	15	68	24	60		
2	-13.7	-19.7	-15.7													1.00	6.00	2.25	9.25	17.80			17.80	T	14	76	24	60		
3	-8.9	-16.7	-11.5																	2.00			2.00	T	10	83	16	60		
4	-9.6	-17.8	-12.3																						13	72	24	60		
5	-10.7	-16.2	-12.5																						8	54	17	40		
6	-8.9	-17.4	-11.7																3.92			3.92	T	11	67	21	70			
7	-11.3	-17.9	-13.5																						13	72	23	60		
8	-16.2	-20.8	-17.7														6.00	6.00	12.00	15.75			15.75	T	19	76	27	90		
9	-18.5	-21.2	-19.4												1.00			1.00	24.00			24.00	T	17	73	21	80			
10	-18.9	-23.1	-20.3								2.50				3.00			3.00	24.00	3.00		27.00	0.01	11	86	22	60			
11	-18.4	-25.1	-20.6																8.50			8.50	T	16	76	25	60			
12	-12.4	-22.7	-15.8																21.92			21.92	T	11	122	22	60			
13	-12.9	-16.9	-14.2																13.00			13.00	T	10	88	22	150			
14	-8.1	-21.9	-12.7																					7	6	16	350			
15	-11.1	-23.6	-15.3																2.50			2.50	T	16	86	26	110			
16	-22.4	-24.1	-23.0																10.00			10.00	T	21	88	27	90			
17	-10.5	-23.5	-14.8																					3	14	20	80			
18	-11.1	-15.6	-12.6								1.70	0.00	0.00	1.70		1.90	0.50	0.00	2.40	7.25			7.25	T	22	164	39	190		
19	-8.8	-14.7	-10.8																5.50			5.50	T	7	20	25	170			
20	-8.6	-14.3	-10.5													0.50	4.50	5.00	11.42			11.42	0.02	6	87	14	60			
21	-9.1	-12.4	-10.2				1.00	1.00					2.00	2.00				2.50	9.25			9.25	0.07	10	112	20	170			
22	-8.0	-17.2	-11.1	1.00					1.00	0.50					1.00			4.50			5.50	19.00	4.50	1.50	25.00	T	16	107	33	160
23	-16.9	-23.4	-19.1																18.83			18.83	T	19	75	25	90			
24	-22.5	-24.7	-23.2																24.00			24.00	T	18	87	26	90			
25	-23.0	-26.5	-24.2	2.00	3.00	6.00	4.00	15.00	3.00	3.00	6.00	4.50	16.50	3.00	3.00	6.00	5.50	17.50	24.00	11.50	6.00	41.50	T	17	69	25	60			
26	-23.6	-27.4	-24.9																6.00			6.00	T	12	77	20	60			
27	-22.9	-29.4	-25.1																					6	59	19	60			
28	-18.1	-24.9	-20.4																					4	11	14	350			
29	-18.1	-19.5	-18.6																					9	339	17	330			
30	-17.6	-21.7	-19.0																					7	103	19	60			
31	-16.1	-23.9	-18.7																					3	31	14	110			

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										
-8.0	-29.4	-16.6	6.0	3.0	6.0	5.0	6.5	7.2	6.0	6.5	8.0	9.9	23.5	20.8	272.6	22.0	7.5	302.2	0.11	80	12	190	39	50

Temp (C)		Total Hrs =or< 1600:	Total Hrs =or< 4800:	Total Hrs < 9999:
Average		20.0	26.2	62.2
Max	Min	Total Days =or< 1600:	Total Days =or< 4800:	Total Days < 9999:
-14.6	-20.8	4	6	10
		% Hrs =or< 1600:	% Hrs =or< 4800:	% Hrs < 9999:
		2.7%	3.5%	8.4%
		% Days =or< 1600:	% Days =or< 4800:	% Days < 9999:
		12.9%	19.4%	32.3%

Total Hrs	sn/sg/ic:
272.6	272.6
fg/br:	22.0
bs:	7.5
Total Days	sn/sg/ic:
21	21
fg/br:	4
bs:	2

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

Max Gust
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28
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16

Station:
NZCM

Monthly Climatology / Page 2

Month:
MAR 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	5	25														3.00					3.00	29.08	29.03	29.06	4	0.05	6.6	-34.0				
2	8	30																					29.26	29.08	29.17	4	0.18	6.0	-34.0			
3	5	90																					29.37	29.29	29.34	4	0.08	7.8	-28.0			
4	6	50																					29.37	29.33	29.35	4	0.04	8.2	-31.0			
5	3	35																					29.29	29.25	29.27	4	0.04	5.5	-27.0			
6	6	25														4.00	4.75					8.75	29.38	29.27	29.33	4	0.11	8.5	-30.0			
7	8	85																					29.38	29.36	29.38	4	0.02	6.6	-31.0			
8	8	40																					29.30	29.23	29.27	4	0.07	4.6	-35.0			
9	8	40																					29.24	29.21	29.23	4	0.03	2.7	-35.0			
10	8	35																					29.38	29.25	29.31	4	0.13	4.2	-38.0			
11	8	30																					29.57	29.44	29.52	4	0.13	6.7	-41.0			
12	8	30																					29.62	29.60	29.61	4	0.02	10.3	-38.0			
13	4	30																					29.57	29.43	29.52	4	0.14	4.0	-39.0			
14	1																						29.34	29.06	29.16	4	0.28	13.8	-34.0			
15	4	30																					29.30	29.11	29.23	4	0.19	12.5	-41.0			
16	8	40																					29.35	29.30	29.32	4	0.05	1.7	-41.0			
17	7	18																					29.27	29.14	29.22	4	0.13	13.0	-38.0			
18	8	30																					29.22	29.08	29.12	4	0.14	4.5	-31.0			
19	7	30																					29.19	28.95	29.07	4	0.24	5.9	-28.0			
20	7	30																					28.96	28.91	28.94	4	0.05	5.7	-24.0			
21	8	25																					28.90	28.79	28.85	4	0.11	3.3	-23.0			
22	8	20														2.00						4.00	2.50	8.50	28.98	28.81	28.91	4	0.17	9.2	-30.0	
23	7	25																					3.30	6.00	9.30	29.05	28.94	28.98	4	0.11	6.5	-39.0
24	8	25														6.00	6.00	6.00	6.00	24.00	29.14	29.09	29.12	4	0.05	2.2	-41.0					
25	8	0				0.50	0.50	1.00							4.00	2.50	6.50	3.00	6.00	6.00	3.50	18.50	29.10	29.05	29.07	4	0.05	3.5	-43.0			
26	6	50																					29.12	29.06	29.09	4	0.06	3.8	-42.0			
27	5	70																					29.13	29.08	29.11	4	0.05	6.5	-45.0			
28	4	180																					29.03	28.80	28.91	4	0.23	6.8	-33.0			
29	1																						29.07	28.78	28.91	4	0.29	1.4	-31.0			
30	4	180																					29.31	29.19	29.25	4	0.12	4.1	-33.0			
31	1																						29.05	28.50	28.74	4	0.55	7.8	-34.0			

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)												Altimeter			Total Obs Taken	Min Wind Chill																						
	< 500				< 1000				< 3000				Max	Min	Avg																								
	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L	00-06L	06-12L	12-18L	18-24L																											
6	0.0	0.0	0.5	0.5	0.0	0.0	4.0	2.5	18.0	16.8	23.3	23.5	29.62	28.50	29.17	124	-45.0																						
<table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">Total Hrs =or< 500:</td> <td style="border: 1px solid black; padding: 2px;">1.0</td> <td style="border: 1px solid black; padding: 2px;">Total Hrs =or< 1000:</td> <td style="border: 1px solid black; padding: 2px;">6.5</td> <td style="border: 1px solid black; padding: 2px;">Total Hrs =or< 3000:</td> <td style="border: 1px solid black; padding: 2px;">81.6</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Total Days =or< 500:</td> <td style="border: 1px solid black; padding: 2px;">1</td> <td style="border: 1px solid black; padding: 2px;">Total Days =or< 1000:</td> <td style="border: 1px solid black; padding: 2px;">1</td> <td style="border: 1px solid black; padding: 2px;">Total Days =or< 3000:</td> <td style="border: 1px solid black; padding: 2px;">8</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">% Hrs =or< 500:</td> <td style="border: 1px solid black; padding: 2px;">0.1%</td> <td style="border: 1px solid black; padding: 2px;">% Hrs =or< 1000:</td> <td style="border: 1px solid black; padding: 2px;">0.9%</td> <td style="border: 1px solid black; padding: 2px;">% Hrs =or< 3000:</td> <td style="border: 1px solid black; padding: 2px;">11.0%</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">% Days =or< 500:</td> <td style="border: 1px solid black; padding: 2px;">3.2%</td> <td style="border: 1px solid black; padding: 2px;">% Days =or< 1000:</td> <td style="border: 1px solid black; padding: 2px;">3.2%</td> <td style="border: 1px solid black; padding: 2px;">% Days =or< 3000:</td> <td style="border: 1px solid black; padding: 2px;">25.8%</td> </tr> </table>																Total Hrs =or< 500:	1.0	Total Hrs =or< 1000:	6.5	Total Hrs =or< 3000:	81.6	Total Days =or< 500:	1	Total Days =or< 1000:	1	Total Days =or< 3000:	8	% Hrs =or< 500:	0.1%	% Hrs =or< 1000:	0.9%	% Hrs =or< 3000:	11.0%	% Days =or< 500:	3.2%	% Days =or< 1000:	3.2%	% Days =or< 3000:	25.8%
Total Hrs =or< 500:	1.0	Total Hrs =or< 1000:	6.5	Total Hrs =or< 3000:	81.6																																		
Total Days =or< 500:	1	Total Days =or< 1000:	1	Total Days =or< 3000:	8																																		
% Hrs =or< 500:	0.1%	% Hrs =or< 1000:	0.9%	% Hrs =or< 3000:	11.0%																																		
% Days =or< 500:	3.2%	% Days =or< 1000:	3.2%	% Days =or< 3000:	25.8%																																		
<table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Total Days</td> <td style="text-align: center; padding: 2px;">31</td> </tr> </table>																Total Days	31																						
Total Days	31																																						

