

McMurdo Station Daily Observation Worksheet

Date: 01

Time	Winds		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)		
	Zulu	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br		hrs	bs	hrs	Spd	Dir	Time			Spd	Dir	Time		<500	<1000
12-15Z				-30.1	-34.4										18	110	1427	25	120	1418							
15-18Z	150	13	-31.2	-31.2	-35.8	1			sn	4			bs	2	0.03	21	140	1717	25	140	1716	8				29.18	
18-21Z				-30.9	-34.1	1	2		sn	2			bs	3		20	170	1759	26	180	1758						
21-24Z	170	21	-29.9	-29.8	-31.2	3							bs	3		29	150	2209	34	150	2208	8	25			3	29.23
12 hr Max/Min				-29.8	-35.8																						
00-03Z				-28.8	-30.4	1									29	180	1	35	170	2359						1	
03-06Z	150	18	-28.8	-28.5	-32.8	2							bs	2		23	150	550	29	150	550	8					29.28
06-09Z				-28.3	-30.4										29	150	616	35	150	614							
09-12Z	0	0	-29.8	-26.9	-30.6								bs	1		15	30	915	18	30	914	5	120				29.27
12 hr Max/Min				-26.9	-32.8																						
Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
158	13	-26.9	-35.8	-31.4	00-06L	1	0	0	-64.0	-83.0	6	0	11	0.03	150	29	2209	170	35	2359	7	25	00-06L	0	0	0	
					06-12L	4	2	0							Altimeter			Total Obs	Daily Pres Diff	Daily Temp Diff			06-12L	0	0	3	
					12-18L	3	0	0							Max	Min	Avg	29.28	29.18	29.24			12-18L	0	0	1	
					18-24L	0	0	0										4	0.10	8.9			18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 02

Time	Winds			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)
	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				-28.9	-29.8										15	340	1400	20	320	1323						
15-18Z	340	16	-28.7	-28.3	-29.9										17	340	1748	22	340	1747	5	150			29.21	
18-21Z				-26.5	-28.3										17	340	2044	21	340	2020						
21-24Z	330	15	-27.0	-26.5	-27.6										20	340	2310	28	240	2307	8	10	10	20	29.16	
12 hr Max/Min				-26.5	-29.9																					
00-03Z				-25.4	-28.4		1	1							17	310	2	21	310	2						
03-06Z	60	7	-26.4	-25.8	-28.0		1	SN/IC	6					0.20	15	110	407	21	100	340	8	40			29.28	
06-09Z				-25.4	-28.1										14	100	849	19	110	824						
09-12Z	70	14	-28.6	-28.0	-29.3		4	2 IC	4					T	19	120	1059	28	110	1022	8	120			29.34	
12 hr Max/Min				-25.4	-29.3																					

Avg Wind Dir	Max Spd	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)				
				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
10	13	-25.4	-29.9	00-06L	0	0	0	-55.0	-67.0	10	0	0	0.20	340	20	2310	240	28	2307	7	10	00-06L	0	0	0
				06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	10	20
				12-18L	0	2	1							Max	Min	Avg	4	0.18	4.5			12-18L	0	0	0
				18-24L	0	4	2							29.34	29.16	29.25	4	0.18	4.5			18-24L	0	0	0

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Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 03

Time	Winds			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)
	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				-27.4	-30.2										17	60	1408	22	140	1450						
15-18Z	60	12	-27.9	-32.4	-27.0										18	50	1716	25	50	1537	1				29.30	
18-21Z				-26.0	-31.1										14	60	1844	19	80	1843						
21-24Z	0	0	-32.1	-28.5	-32.4										10	290	2144	14	290	2140	7	150			29.33	
12 hr Max/Min				-26.0	-32.4																					
00-03Z				-27.7	-30.7										10	320	243	14	320	243						
03-06Z	330	4	-29.8	-27.9	-30.8										7	300	518	10	300	300	3				29.28	
06-09Z				-29.6	-30.1										5	300	800	6	310	802						
09-12Z	0	0	-32.5	-28.9	-33.1			1 IC	1						T	6	160	1126	7	160	1125	6	120			29.22
12 hr Max/Min				-27.7	-33.1																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	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	Sky Cover	CIG	Time	<500	<1000	<3000
42	4	-26.0	-33.1	-29.6	00-06L	0	0	0	-53.0	-63.0	1	0	0	0.00	50	18	1716	50	25	1537	4	120	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Obs	Pres	Temp										
					18-24L	0	0	1						Taken	Diff	Diff										
														29.33	29.22	29.28	4	0.11	7.1							

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Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 04

Time	Winds			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)	
	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				-29.6	-33.1				SN/IC		3				4	160	1341	5	190	1417							
15-18Z	0	0	-25.7	-25.4	-31.3				SN		3			0.01	4	300	1615	6	220	1540	5	120		29.11			
18-21Z				-21.9	-26.5		1	2		BR	3				12	90	1908	17	100	1907							
21-24Z	50	17	-25.9	-22.2	-26.3		1					bs		2 T	22	50	2339	30	130	2220	8	15		6 29.11			
12 hr Max/Min				-21.9	-33.1																						
00-03Z				-22.0	-26.2										22	30	230	28	30	230							
03-06Z	160	27	-22.6	-18.4	-23.5	1	4	1				bs		6	24	30	317	28	30	316	8	100		29.04			
06-09Z				-22.4	-25.3										37	160	603	43	160	602							
09-12Z	60	25	-36.9	-23.8	-36.9	6						bs		6	32	50	1143	41	160	934	8	100		29.08			
12 hr Max/Min				-18.4	-36.9																						
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	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	Sky Cover	CIG	Time	<500	<1000	<3000	
93	17	-18.4	-36.9	-27.7	00-06L	0	0	0	-76.0	-105.0	6	3	14	0.01	160	37	603	160	43	602	7	15	00-06L	0	0	0	
															Altimeter			Total	Daily	Daily							
															Max	Min	Avg	Obs	Pres	Temp							
															29.11	29.04	29.09	4	0.07	18.5							

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Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 05

Time	Winds			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)
	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				-28.8	-37.1	3						bs	3		31	50	1209	43	100	1315			3			
15-18Z	110	8	-23.8	-22.7	-29.3	3						bs	3		24	110	1645	35	90	1535	8	10	3	28.96		
18-21Z				-19.9	-25.1	3						bs	3		51	180	1948	60	180	2052			3			
21-24Z	100	18	-19.9	-18.7	-24.0	3						bs	3		32	170	2057	41	140	2302	8	15	2	1 28.87		
12 hr Max/Min				-18.7	-37.1																					
00-03Z				-19.5	-20.4	3						bs	3		34	170	36	40	180	42				3		
03-06Z	130	23	-18.8	-18.7	-20.1	3						bs	3		28	150	439	37	140	549	8			3 28.80		
06-09Z				-18.0	-18.8		3					bs	3		27	120	850	39	120	846				3		
09-12Z	VRB	6	-19.8	-18.0	-19.9			1				bs	1		28	130	857	35	130	858	8	150		28.69		
12 hr Max/Min				-18.0	-20.4																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	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	Sky Cover	est CIG	Time	<500	<1000	<3000
120	14	-18.0	-37.1	-27.6	00-06L	6	0	0	-76.0	-104.8	0	0	22	0.00	180	51	1948	180	60	2052	8	10	00-06L	0	6	0
					06-12L	6	0	0							Altimeter			Total	Daily	Daily			06-12L	0	5	1
					12-18L	6	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	6
					18-24L	0	3	1							28.96	28.69	28.83	Taken	Diff	Diff			18-24L	0	0	3
																		3	0.27	19.1						

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 06

Time	Winds			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)	
	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				-19.1	-20.8										20	140	1344	26	140	1344							
15-18Z	110	15	-21.4	-20.4	-22.0										32	160	1641	37	170	1621	7	150			28.68		
18-21Z															22	130	1915	28	130	1921							
21-24Z	140	29	-17.5	-17.4	-18.8										33	150	2330	39	150	2329	8	150			28.61		
12 hr Max/Min				-17.4	-22.0																						
00-03Z				-17.0	-19.7										34	150	149	39	160	149							
03-06Z	180	35	-18.0	-17.0	-19.4	1						bs	1		35	170	542	44	180	426	8	70			1	28.75	
06-09Z				-19.6	-23.4	1	2								37	160	602	48	160	537							
09-12Z	180	17	-25.9	-22.7	-26.8		6					bs	6		18	80	1137	24	80	1136	8	150			28.96		
12 hr Max/Min				-17.0	-26.8																						
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	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	Sky Cover	est CIG	Time	<500	<1000	<3000	
158	24	-17.0	-26.8	-21.9	00-06L	0	0	0	-51.0	-60.0	0	0		7	0.00	160	37	602	160	48	537	8	70	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily								
					12-18L	1	0	0						Obs	Pres	Temp											
					18-24L	1	8	0						Taken	Diff	Diff											
														28.96	28.61	28.75	4	0.35	9.8								

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Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 07

Time	Winds			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)
	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				-23.7	-25.8										16	110	1412	24	130	1403						
15-18Z	120	7	-24.1	-23.6	-24.4				1 IC		1				19	130	1649	26	140	1649	8	150			29.03	
18-21Z				-22.4	-24.3										27	140	1900	32	140	1901						
21-24Z	150	15	-21.7	-21.5	-23.9				6 IC		5		bs	1 T	32	150	2158	36	150	2158	8	70			29.07	
12 hr Max/Min				-21.5	-25.8																					
00-03Z				-21.7	-23.2				3 IC		3				26	150	246	28	150	247						
03-06Z	80	9	-24.8	-22.0	-24.8		3		SN/IC		2 BR		1 bs	1 T	19	140	314	25	130	449	8	70			29.19	
06-09Z				-24.8	-26.0		1						BR	1	15	50	834	20	80	727						
09-12Z	60	13	-26.9	-25.7	-28.0										16	50	1150	21	90	959	4				29.32	
12 hr Max/Min				-21.7	-28.0																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-est	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	Sky Cover	CIG	Time	<500	<1000	<3000
104	11	-21.5	-28.0	-24.8	00-06L	0	0	1	-54.0	-65.0	11	2	2	0.00	150	32	2158	150	36	2158	7	70	00-06L	0	0	0
					06-12L	0	0	6						Altimeter			Total	Daily	Daily							
					12-18L	0	3	3						Obs	Pres	Temp										
					18-24L	0	1	0						Taken	Diff	Diff										
														29.32	29.03	29.15	4	0.29	6.5							

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McMurdo Station Daily Observation Worksheet

Date: 08

Time	Winds			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)
	Dir	Spd	Temp	Max	Min	<1600	<4800	<9999	sn/sg/ic	hrs	fg/br	hrs	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000	
12-15Z				-26.4	-29.1										19	50	1241	24	50	1240						
15-18Z	40	18	-29.4	-26.5	-29.6			1				bs	1		20	40	1747	26	50	1746	6	150			29.36	
18-21Z				-27.5	-29.9										23	50	1921	29	40	1920						
21-24Z	0	0	-28.5	-26.9	-29.4				IC	1				T	13	50	2115	19	60	2114	6	150			29.34	
12 hr Max/Min				-26.4	-29.9																					
00-03Z				-27.1	-30.6										9	70	131	11	70	130						
03-06Z	340	7	-27.3	-26.7	-28.2				SN	2				T	9	330	536	10	340	550	8	30		3	29.27	
06-09Z				-27.1	-29.1										9	340	627	12	330	625						
09-12Z	310	3	-29.6	-27.6	-29.9										5	340	912	8	340	917	2				29.21	
12 hr Max/Min				-26.7	-30.6																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			Alt		
Dir	Spd	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd			Time	Time	<500		<1000	<3000
17	7	-26.4	-30.6	-28.5	00-06L	0	0	1	-58.0	-72.0	3	0	1	0.00	50	23	1921	40	29	1920	6	30	00-06L	0	0	0
				06-12L	0	0	0					Altimeter			Total	Daily	Daily									
				12-18L	0	0	0					Max	Min	Avg	Obs	Pres	Temp									
				18-24L	0	0	0					29.36	29.21	29.30	Taken	Diff	Diff									
																4	0.15	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not fractions of an hour.

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McMurdo Station Daily Observation Worksheet

Date: 09

Time	Winds			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)	
	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				-27.3	-30.1										6	310	1225	9	300	1312							
15-18Z	350	5	-27.6	-27.0	-28.5				1	IC	1				7	300	1703	10	340	1743	8	150			29.15		
18-21Z				-26.3	-27.7										5	320	1946	7	310	1910							
21-24Z	310	4	-26.9	-25.4	-27.5				6	SGIC	6				8	300	2330	11	300	2326	8	100			29.13		
12 hr Max/Min				-25.4	-30.1																						
00-03Z				-23.4	-27.4		3			SG	3				9	270	43	11	270	43							
03-06Z	50	16	-24.6	-23.1	-25.1		3			SN/SG	2		bs	1	18	50	539	22	50	548	8	15			3 29.07		
06-09Z				-22.2	-24.5		2						bs	2	18	50	601	22	50	600					1		
09-12Z	310	13	26.1	-22.2	-26.3										14	310	1131	18	300	1133	8	150			28.91		
12 hr Max/Min				-22.2	-27.4																						
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	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	Sky Cover	est CIG	Time	<500	<1000	<3000	
356	10	-22.2	-30.1	-26.2	00-06L	0	0	1	-48.0	-54.0	12	0	3	0.00	50	18	539	50	22	548	8	15	00-06L	0	0	0	
					06-12L	0	6	0											Altimeter								
					12-18L	0	6	0										Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
					18-24L	0	2	0										29.15	28.91	29.07	4	0.24	7.9	12-18L	0	0	3
																				18-24L			0	0	1		

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 10

Time	Winds			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)	
	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				-23.1	-26.1										18	340	1450	25	330	1442							
15-18Z	300	9	-21.8	-20.5	-22.9										21	340	1515	26	330	1511	6	150			28.61		
18-21Z				-22.9	-27.2										14	320	2046	19	310	2045							
21-24Z	330	11	-24.5	-23.0	-28.7										13	320	2350	18	320	2350	2				28.36		
12 hr Max/Min				-20.5	-28.7																						
00-03Z				-18.5	-27.5										21	340	237	27	340	228							
03-06Z	320	10	-22.3	-18.3	-24.8										20	340	300	26	330	300	8	80			28.21		
06-09Z				-16.7	-23.5				SN	1					14	330	649	18	330	648							
09-12Z	90	8	-19.2	-15.9	-19.4	1	2		SN	3		bs	2	0.02	23	150	959	27	160	958	8	35			28.27		
12 hr Max/Min				-15.9	-27.5																						
Avg Wind	Max	Min	Avg	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	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000		
332	10	-15.9	-28.7	-22.3	00-06L	0	0	0	-50.0	-58.0	4	0	2	0.02	150	23	959	340	27	228	6	35	00-06L	0	0	0	
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp				06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	4	0.40	12.8				12-18L	0	0	0
					18-24L	1	2	0							28.61	28.21	28.36	4	0.40	12.8				18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 11

Time	Winds			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)	
	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				-16.3	-21.2			3							25	130	1440	30	120	1439							
15-18Z	50	13	-16.8	-15.9	-18.3	1	2					bs	3		21	150	1708	26	150	1707	8	50			28.25		
18-21Z			-16.2	-16.2	-18.1	2	1	SG	2			bs	1		15	60	1812	22	70	1811							
21-24Z	110	10	-16.4	-16.2	-17.8		1					bs	1	T	25	140	2317	29	140	2317	7	90			28.31		
12 hr Max/Min				-15.9	-21.2																						
00-03Z			-15.4	-16.6											13	140	41	18	70	146							
03-06Z	170	32	-20.8	-15.1	-22.6	2		SN	2			bs	1		42	170	544	54	180	543	8	25		2	28.55		
06-09Z			-23.1	-28.5											42	150	626	52	160	604							
09-12Z	50	20	-32.8	-27.5	-32.9	6						bs	6	T	27	50	1028	34	50	1020	8	20		6	28.96		
12 hr Max/Min				-15.1	-32.9																						
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg	Low-	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	Sky Cover	est CIG	Time	<500	<1000	<3000	
109	19	-15.1	-32.9	-24.0	00-06L	0	1	5			4	0	12	0.00	170	42	544	180	54	543	8	20	00-06L	0	0	0	
					06-12L	0	2	2											Altimeter			Total	Daily	Daily			
					12-18L	2	0	0											Obs	Pres	Temp						
					18-24L	6	0	0											Taken	Diff	Diff						
															28.96	28.25	28.52	4	0.71	17.8							

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 12

Time	Winds			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)	
	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				-26.1	-33.2	1						bs	1		28	50	1201	35	30	2333							
15-18Z	60	7	-21.1	-20.9	-25.8										19	30	1525	26	40	1510	1				29.13		
18-21Z				-20.6	-26.7										16	340	2002	20	340	1950							
21-24Z	340	16	-24.9	-24.6	-26.7										17	340	2338	22	330	2347	1				29.16		
12 hr Max/Min				-20.6	-33.2																						
00-03Z				-24.1	-29.3										18	340	45	24	330	42							
03-06Z	290	6	-24.8	-24.8	-27.1										16	330	346	20	330	347	8	100			29.07		
06-09Z				-24.7	-27.5										10	320	742	14	310	745							
09-12Z	0	0	-27.9	-25.6	-28.4										6	90	1105	8	90	1105	8	150			28.93		
12 hr Max/Min				-24.1	-29.3																						
Avg Wind	Max	Min	Avg	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	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000		
346	7	-20.6	-33.2	-26.9	00-06L	1	0	0	-48.0	-54.0	0	0	1	0.00	50	28	1201	30	35	2333	5	100	00-06L	0	0	0	
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp				06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	4	0.23	12.6			12-18L	0	0	0	
					18-24L	0	0	0							29.16	28.93	29.07						18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 13

Time	Winds		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)		
	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				-24.1	-27.7										8	90	1258	10	90	1310							
15-18Z	0	0	-25.2	-24.1	-26.0				SN	1				T	2	160	1746	3	350	1603	8	30		1	28.83		
18-21Z				-20.3	-24.8										9	100	2048	10	110	2049							
21-24Z	0	0	-27.7	-24.6	-25.7		3		SN	3		bs	1	0.01	16	70	2327	20	80	2243	8	30		6	28.82		
12 hr Max/Min				-20.3	-27.7																						
00-03Z				-26.6	-27.7		3		SN	3		bs	1		16	80	212	20	70	2357				3			
03-06Z	80	9	-26.9	-26.4	-27.6		3		IC	2				T	16	60	308	19	60	309	7	30		3	28.76		
06-09Z				-24.9	-26.9		1		IC	3					14	80	614	17	80	613							
09-12Z	0	0	-27.1	-24.8	-27.3				IC	2					10	90	908	11	70	928	3				28.71		
12 hr Max/Min				-24.8	-27.7																						
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Temp	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	
80	2	-20.3	-27.7	-24.0	00-06L	0	0	0			14	0	2	0.01	70	16	2327	80	20	2243	7	30	00-06L	0	0	1	
					06-12L	0	3	0											Altimeter								
					12-18L	0	6	0											Max	Min	Avg	Total	Daily	Daily			
					18-24L	0	1	0											28.83	28.71	28.78	Obs	Pres	Temp			
																		4	0.12	7.4							

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 14

Time	Winds		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)
	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				-25.6	-28.3									6	350	1429	9	340	1428						
15-18Z	340	8	-24.8	-24.2	-27.7									11	340	1730	14	330	1729	8	90			28.68	
18-21Z				-24.2	-25.8																				
21-24Z	0	0	-25.1	-23.4	-28.1									4	340	2328	7	300	2115	8	80			28.68	
12 hr Max/Min				-23.4	-28.3																				
00-03Z				-20.9	-25.9									7	310	249	9	290	146						
03-06Z	340	7	-18.7	-18.0	-25.8									13	340	501	17	330	459	8	150			28.65	
06-09Z				-17.7	-26.1									10	160	758	15	150	757						
09-12Z	120	10	-19.8	-17.9	-25.7									12	120	1150	18	130	1150	8	150			28.71	
12 hr Max/Min				-17.7	-26.1																				

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)			
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000
21	6	-17.7	-28.3	-23.0	00-06L	0	0	0			0	0	0	0.00	340	13	501	130	18	1150	8	80	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	4	0.06	10.6			12-18L	0	0	0
					18-24L	0	0	0							28.71	28.65	28.68	Taken	Diff	Diff			18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 15

Time	Winds			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)	
	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				-15.7	-24.7										19	80	1330	25	100	1328							
15-18Z	50	19	-26.6	-21.7	-27.1	1			SN	1			bs	1	26	50	1749	33	40	1748	8	30			1	28.82	
18-21Z				-21.4	-28.6	1			1 SN	1			bs	2	30	40	1805	35	50	1804					1		
21-24Z	340	16	-23.9	-21.2	-27.2									0.01	20	340	2241	26	330	2246	7	70				28.94	
12 hr Max/Min				-15.7	-28.6																						
00-03Z				-22.7	-24.1										20	340	17	24	340	19							
03-06Z	330	8	-22.7	-22.4	-22.8				1 SN	1				T	15	330	309	20	320	303	7	70				29.03	
06-09Z				-22.3	-23.7				3 SN	3					11	340	746	16	330	746							
09-12Z	150	4	-25.3	-21.4	-25.3				1 SN	3				T	10	320	910	15	300	906	7	70				29.05	
12 hr Max/Min				-21.4	-25.3																						
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Temp	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	
13	12	-15.7	-28.6	-22.2	00-06L	1	0	0			9	0	3	0.01	40	30	1805	50	35	1804	7	30	00-06L	0	0	1	
					06-12L	1	0	1											Altimeter								
					12-18L	0	0	1											Max	Min	Avg	Total	Daily	Daily			
					18-24L	0	0	4											29.05	28.82	28.96	Obs	Pres	Temp			
																		4	0.23	12.9							

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 16

Time	Winds		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)		
	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				-14.1	-25.1									9	90	1448	14	130	1416								
15-18Z	110	10	-15.2	-14.1	-15.4									13	120	1745	19	140	1745	7	30			3	29.09		
18-21Z				-15.2	-17.8									30	130	2044	38	140	2043								
21-24Z	50	19	-19.8	-16.2	-20.0									20	40	2343	35	120	2107	7	70				29.24		
12 hr Max/Min				-14.1	-25.1																						
00-03Z				-15.9	-19.7									18	40	43	28	50	32								
03-06Z	50	17	-20.7	-16.5	-21.2				3	SN	1		bs	2	T	23	50	443	27	50	443	7	25		3	29.30	
06-09Z				-20.6	-27.5		1	2					bs	3		30	50	815	35	50	844						
09-12Z	50	26	-30.6	-26.0	-30.8		3						bs	3		32	60	1128	40	50	1011	7	25		3	29.34	
12 hr Max/Min				-15.9	-30.8																						
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	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	
57	18	-14.1	-30.8	-22.5	00-06L	0	0	0			1	0	8	0.00	60	32	1128	50	40	1011	7	25	00-06L	0	0	3	
					06-12L	0	0	0											Altimeter								
					12-18L	0	0	3											Max	Min	Avg	Total	Daily	Daily			
					18-24L	0	4	2											29.34	29.09	29.24	Obs	Pres	Temp			
																		4	0.25	16.7							

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 17

Time	Winds			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)	
	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				-29.3	-31.8		3						bs	3	35	50	1441	42	50	1441							
15-18Z	80	23	-28.1	-27.4	-30.0		3						bs	3	31	50	1534	38	50	1521	7	25			3	29.41	
18-21Z				-27.2	-28.8		1						bs	1	26	70	1805	32	70	1841							
21-24Z	50	18	-26.9	-26.8	-29.3										27	80	2208	31	50	2132	3					29.35	
12 hr Max/Min				-26.8	-31.8																						
00-03Z				-21.4	-26.8																						
03-06Z	0	0	-26.6	-22.5	-27.7																						
06-09Z				-24.7	-26.9																						
09-12Z	0	0	-27.3	-25.8	-28.0																						
12 hr Max/Min				-21.4	-28.0																						
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Temp	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	
67	10	-21.4	-31.8	-26.6	00-06L	0	6	0			0	0	7	0.00	50	35	1441	50	42	1441	4	25	00-06L	0	0	3	
					06-12L	0	1	0																			
					12-18L	0	0	0																			
					18-24L	0	0	0																			
															Altimeter			Total	Daily	Daily							
															Max	Min	Avg	Obs	Pres	Temp							
															29.41	29.29	29.34	Taken	Diff	Diff							
															4	0.12	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 18

Time	Winds		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)
	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				-26.6	-28.0										11	100	1448	12	90	1450					
15-18Z	0	0	-27.9	-27.0	-29.4										13	100	1458	14	90	1459	0				29.27
18-21Z				-25.7	-34.9										4	20	1927	6	100	2050					
21-24Z	60	4	-28.8	-22.2	-31.5										11	80	2250	14	90	2250	1				29.32
12 hr Max/Min				-22.2	-34.9																				
00-03Z				-23.5	-29.1										8	80	150	10	90	149					
03-06Z	130	5	-23.4	-22.9	-26.8				IC	1				T	7	130	547	10	130	547	4				29.36
06-09Z				-22.5	-30.5										8	80	726	12	70	716					
09-12Z	0	0	-28.1	-25.1	-28.6										4	70	940	6	50	942	0				29.47
12 hr Max/Min				-22.5	-30.5																				

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
99		2	-22.2	-34.9	-28.6	00-06L	0	0	0			1	0	0	0.00	100	13	1458	90	14	1459	1		00-06L	0	0	0
						06-12L	0	0	0							Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff			06-12L	0	0	0
						12-18L	0	0	0							Max	Min	Avg						12-18L	0	0	0
						18-24L	0	0	0							29.47	29.27	29.36	4	0.20	12.7			18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 19

Time	Winds		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)
	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				-25.6	-32.9									4	50	1201	5	40	1202						
15-18Z	0	0	-26.0	-23.6	-27.8									10	340	1634	14	340	1633	7	150			29.55	
18-21Z				-23.1	31.5									6	300	1940	8	300	1940						
21-24Z	170	3	-21.7	-18.2	-24.8									6	10	2114	9	20	2113	6	150			29.63	
12 hr Max/Min				-18.2	-32.9																				
00-03Z				-20.0	-26.5									5	40	39	6	40	2358						
03-06Z	0	0	-24.5	-20.0	-26.0									3	40	259	4	30	259	7	150			29.65	
06-09Z				-23.5	-26.9									3	160	850	4	110	836						
09-12Z	0	0	-25.9	-24.7	-26.2									4	150	933	4	150	933	5	150			29.68	
12 hr Max/Min				-20.0	-26.9																				

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.

Avg Wind	Max	Min	Avg	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			Dir	Spd	Time	Dir	Spd	Time
170	1	-18.2	-32.9	-25.6	00-06L	0	0	0	-42.0	-44.0	0	0	0	0.00	340	10	1634	340	14	1633	6	150	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.68	29.55	29.63	4	0.13	14.7			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 20

Time	Winds		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)
	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				-23.7	-25.7										3	40	1336	4	130	1447					
15-18Z	60	15	-21.9	-21.2	-27.1										16	60	1749	21	70	1748	2			29.66	
18-21Z				-20.7	-22.1										20	60	2031	25	60	2041					
21-24Z	70	13	-21.9	-20.0	-22.0										19	60	2142	25	60	2140	5	150		29.68	
12 hr Max/Min				-20.0	-27.1																				
00-03Z				-21.9	-24.9										24	70	147	29	70	146					
03-06Z	60	14	-26.1	-24.3	-26.6										21	70	510	27	80	340	6	100		29.67	
06-09Z				-25.2	-28.3										14	70	645	18	60	644					
09-12Z	120	7	-26.0	-24.6	-29.3										13	110	945	16	110	945	4			29.70	
12 hr Max/Min				-21.9	-29.3																				

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

Note 2: When inputing WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
70	12		-20.0	-29.3	-24.7	00-06L	0	0	0			0	0	0	0.00	70	24	147	70	29	146	4	100	00-06L	0	0	0
						06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
						12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
						18-24L	0	0	0							29.70	29.66	29.68	4	0.04	9.3			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 21

Time	Winds		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)
	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				-25.1	-26.6									18	80	1450	23	80	1443						
15-18Z	60	11	-26.9	-26.2	-27.0									20	50	1617	23	40	1617	2				29.65	
18-21Z				-26.3	-28.1									21	60	2043	27	60	2042						
21-24Z	60	20	-25.8	-25.7	-28.4									23	60	2320	29	50	2350	1				29.60	
12 hr Max/Min				-25.1	-28.4																				
00-03Z				-25.7	-28.4									28	60	138	34	50	128						
03-06Z	60	20	-26.3	-26.0	-26.9									24	60	444	29	70	459	3				29.56	
06-09Z				-26.2	-26.9									21	60	641	25	60	640						
09-12Z	50	10	-24.7	-23.8	-27.5									17	50	1008	22	50	950	2				29.54	
12 hr Max/Min				-23.8	-28.4																				

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.

Avg Wind	Max	Min	Avg	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			Dir	Spd	Time	Dir	Spd	Time
58	15	-23.8	-28.4	-26.1	00-06L	0	0	0			0	0	0	0.00	60	28	138	50	34	128	2		00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
					18-24L	0	0	0							29.65	29.54	29.59	4	0.11	4.6			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 22

Time	Winds		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)	
	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				-22.3	-27.3										8	80	1423	10	70	1450						
15-18Z	0	0	-21.3	-21.0	-22.9										12	100	1641	15	80	1531	1				29.50	
18-21Z				-20.9	-30.3										11	20	2050	15	20	2050						
21-24Z	0	0	-23.7	-23.7	-26.7										18	20	2313	22	30	2313	8	20			3 29.48	
12 hr Max/Min				-20.9	-30.3																					
00-03Z																										
03-06Z	0	0	-25.0	-19.1	-25.2										3	350	510	4	350	514	7	100				29.36
06-09Z				-25.2	-27.4										6	50	709	6	80	724						
09-12Z	0	0	-28.1	-27.5	-28.3										3	20	1134	4	360	1109	1					29.25
12 hr Max/Min				-19.1	-28.3																					

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.

Avg Wind	Max	Min	Avg	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			Dir	Spd	Time	Dir	Spd	Time
#####	0	-19.1	-30.3	-24.7	00-06L	0	0	0			0	0	0	0.00	20	18	2313	30	22	2313	4	20	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	3
					12-18L	0	0	0							Max	Min	Avg	Taken	Diff	Diff			12-18L	0	0	0
					18-24L	0	0	0							29.50	29.25	29.40						18-24L	0	0	0
																		4	0.25	11.2						



McMurdo Station Daily Observation Worksheet

Date: 23

Time	Winds		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)
	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				-27.6	-28.5										5	60	1414	5	10	1434					
15-18Z	0	0	-26.8	-26.7	-29.0										5	80	1735	5	100	1739				29.21	
18-21Z				-25.0	-26.8										16	60	2049	19	70	2039					
21-24Z	70	24	-27.1	-25.4	-31.5			1		BR	1	bs	1		28	80	2232	32	80	2226				29.36	
12 hr Max/Min				-25.0	-31.5																				
00-03Z				-26.5	-29.7			1				bs	1		28	60	107	36	40	241					
03-06Z	60	21	-29.4	-28.1	-29.7										31	60	341	37	60	357				29.57	
06-09Z				-26.7	-29.9										23	30	829	28	30	829					
09-12Z	30	19	-29.1	-26.6	-29.4										22	30	1115	26	30	1114				29.66	
12 hr Max/Min				-26.5	-29.9																				

Time	Avg Wind		Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)		
	Dir	Spd				Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500
00-06L	55	16	-25.0	-31.5	-28.3	0	0	0			0	1	2	0.00	60	31	341	60	37	357			0	0	0
06-12L						0	0	1							Altimeter			1				0	0	0	
12-18L						0	0	1						Max	Min	Avg	Total Obs		Daily Pres	Daily Temp			0	0	0
18-24L						0	0	0						29.66	29.21	29.45	Taken		Diff	Diff			0	0	0
															4	0.45	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 24

Time	Winds		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)	
	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				-28.4	-29.8										26	30	1412	30	30	1317						
15-18Z	30	21	-28.6	-28.0	-29.1										25	30	1538	29	20	1712	0				29.73	
18-21Z				-27.3	-28.9										18	30	1801	27	30	1815						
21-24Z	30	9	-27.9	-27.2	-28.3										18	30	2303	21	20	2303	7				29.78	
12 hr Max/Min				-27.2	-29.8																					
00-03Z				-26.0	-28.8										14	30	111	17	30	111						
03-06Z	0	0	-26.5	-26.3	-29.5										2	240	258	3	240	257	7	150			29.79	
06-09Z				-27.2	-32.9										2	160	829	2	240	832						
09-12Z	0	0	-31.9	-30.9	-32.3										2	160	1118	3	350	1108	1				29.74	
12 hr Max/Min				-26.0	-32.9																					
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill			WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)			
Dir	Spd	Temp	Temp	Temp	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
30	8	-26.0	-32.9	-29.5	00-06L	0	0	0			0	0	0	0.00	30	26	1412	30	30	1317	4	150	00-06L	0	0	0
					06-12L	0	0	0											Altimeter							
					12-18L	0	0	0							Total Obs Taken			Daily Pres Diff			Daily Temp Diff					
					18-24L	0	0	0							29.79			29.73			29.76					
															4			0.06			6.9					

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 25

Time	Winds			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)		
	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				-30.6	-32.8										4	160	1448	6	320	1331								
15-18Z	0	0	-33.0	-30.8	-34.7									3	160	1748	5	150	1747	5					29.68			
18-21Z				-30.0	-34.8									5	180	1915	7	180	1915									
21-24Z	0	0	-27.2	-27.0	-30.1				SN	2				T	3	70	2126	3	70	2130	8				29.60			
12 hr Max/Min				-27.0	-34.8																							
00-03Z				-26.7	-27.9				SN	3					4	90	241	5	70	258								
03-06Z	0	0	-28.9	-27.2	-29.0				2 SN	2				T	8	60	447	10	110	330	7	10			3 29.57			
06-09Z				-29.0	-31.3				1		BR	1			8	70	824	11	90	842								
09-12Z	0	0	-35.1	-30.5	-35.2				2 IC	1	BR	2		T	5	260	906	7	190	912	2				29.58			
12 hr Max/Min				-26.7	-35.2																							
Avg Wind		Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)						
Dir	Spd	Temp	Temp	Temp	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		
#####	0	-26.7	-35.2	-31.0	00-06L	0	0	0			8	3	0	0.00	60	8	447	90	11	842	6	10	00-06L	0	0	0		
					06-12L	0	0	0																				
					12-18L	0	0	2																				
					18-24L	0	0	3																				
												Altimeter			Total Obs	Daily Pres	Daily Temp											
															29.68	29.57	29.61	Taken	Diff	Diff								
																		4	0.11	8.5								

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 26

Time	Winds			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)
	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				-31.2	-34.5				IC					3	7	300	1239	8	280	1339						
15-18Z	0	0	-32.3	-30.6	-33.0	1			IC	fg	1			2	7	150	1649	10	310	1504	8	3	1		29.56	
18-21Z				-31.2	-32.6	2	1		IC	fg/br	3			2	6	90	2050	9	100	2050			2			
21-24Z	80	12	-28.9	-28.5	-33.7		1							T	16	80	2350	19	80	2349	5	150			29.59	
12 hr Max/Min				-28.5	-34.5																					
00-03Z				-27.7	-29.3										20	80	47	25	60	117						
03-06Z	0	0	-29.9	-24.5	-30.2										15	60	302	20	50	313	6	15			29.58	
06-09Z				-29.8	-31.6										4	360	834	5	350	834						
09-12Z	80	8	-33.0	-30.1	-33.2										10	80	1148	12	70	1148	2				29.55	
12 hr Max/Min				-24.5	-33.2																					
Avg Wind	Max	Min	Avg	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn	Max Wind			Max Gust			Avg Sky	Low-est	Ceiling (hrs)					
Dir	Spd	Temp	Temp	Temp	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
80	5	-24.5	-34.5	-29.5	00-06L	1	0	0	-54.0	-65.0	0	4	7	0.00	80	20	47	60	25	117	5	3	00-06L	1	0	0
					06-12L	2	2	0						Altimeter			Total	Daily	Daily							
					12-18L	0	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.59	29.55	29.57	Taken	Diff	Diff							
																4	0.04	10.0								

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 27

Time	Winds		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)
	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				-29.0	-32.8										14	60	1447	19	60	1443					
15-18Z	80	13	-28.6	-27.7	-29.8										15	50	1511	19	50	1505	7	150		29.52	
18-21Z				-28.7	-31.3										13	80	1809	16	90	1816					
21-24Z	0	0	-30.0	-26.4	-30.8										5	220	2342	M	M	M	7	150		29.50	
12 hr Max/Min				-26.4	-32.8																				
00-03Z				-25.0	-30.5										3	180	201	3	110	214					
03-06Z	0	0	-28.3	-24.6	-28.5										3	160	532	3	170	533	7	150		29.41	
06-09Z				-26.9	-31.2		2		ic		1	br		2											
09-12Z	0	0	-32.7	-31.0	-32.9		3					br		3			T							29.35	
12 hr Max/Min				-24.6	-32.9																				

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
80		3	-24.6	-32.9	-28.8	00-06L	0	0	0	-50.0	-58.0	1	5	0	0.00	50	15	1511	60	19	1443	6	150	00-06L	0	0	0
						06-12L	0	0	0							Altimeter								06-12L	0	0	0
						12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
						18-24L	0	5	0							29.52	29.35	29.45	4	0.17	8.3			18-24L	0	0	0



McMurdo Station Daily Observation Worksheet

Date: 28

Time	Winds			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)
	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				-31.0	-32.8										7	70	1229	8	80	1233						
15-18Z	0	0	-33.6	-29.5	-34.1	5				BR	5				5	150	1738	8	150	1733	5	150		29.30		
18-21Z				-29.1	-33.8										10	80	1818	13	80	1823						
21-24Z	100	10	-30.3	-29.1	-31.9			1	IC	3	BR	1		T	12	100	2315	14	100	2343	2			29.29		
12 hr Max/Min				-29.1	-34.1																					
00-03Z				-23.7	-29.5				IC	3					11	40	208	16	60	207						
03-06Z	0	0	-27.9	-23.5	-29.8				IC	2				T	6	270	441	8	250	440	2			29.33		
06-09Z				-26.1	-33.7										4	230	642	6	230	642						
09-12Z	0	0	-31.1	-29.6	-32.3										2	160	1049	3	350	1034	1			29.34		
12 hr Max/Min				-23.5	-33.7																					

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)					
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000	
100	3	-23.5	-34.1	-28.8	00-06L	0	5	0	-47.0	-53.0	8	6	0	0.00	100	12	2315	60	16	207	3	150	00-06L	0	0	0		
						06-12L	0	0	1							Altimeter						06-12L	0	0	0			
						12-18L	0	0	0							Max	Min	Avg	Total Obs	Daily Pres	Daily Temp				12-18L	0	0	0
						18-24L	0	0	0							29.34	29.29	29.32	Taken	Diff	Diff				18-24L	0	0	0
															4	0.05	10.6											



McMurdo Station Daily Observation Worksheet

Date: 29

Time	Winds		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)	
	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				-29.4	-32.2										3	40	1331	3	360	1359						
15-18Z	70	7	-28.9	-27.9	-31.8										9	60	1738	10	70	1738	6	150		29.35		
18-21Z				-25.0	-29.3										9	80	1926	10	80	1925						
21-24Z	0	0	-23.5	-23.2	-29.2										3	170	2350	5	180	2110	6	150		29.41		
12 hr Max/Min				-23.2	-32.2																					
00-03Z				-21.7	-25.1										9	80	820	M	M	M						
03-06Z	60	8	-21.7	-21.7	-25.1										13	40	436	16	50	423	8	150		29.42		
06-09Z				-21.4	-29.5										10	50	628	13	40	559						
09-12Z	0	0	-30.0	-29.5	-30.7										5	160	915	6	160	914	3			29.46		
12 hr Max/Min				-21.4	-30.7																					
Avg Wind	Max	Min	Avg	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	Dir	Spd	Time	Dir			Spd	Time	Time	<500	<1000	<3000
65	4	-21.4	-32.2	-26.8	00-06L	0	0	0	-40.0	-40.0	0	0	0	0.00	40	13	436	50	16	423	6	150	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff							
					12-18L	0	0	0						29.46	29.35	29.41	4	0.11	10.8							
					18-24L	0	0	0												06-12L	0	0	0			
																				12-18L	0	0	0			
																				18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 30

Time	Winds		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)
	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				-29.3	-30.6										2	40	1410	3	140	1348					
15-18Z	0	0	-30.2	-29.1	-30.4										3	320	1619	4	310	1616				29.48	
18-21Z				-25.4	-30.1										5	50	1923	7	70	1912					
21-24Z	0	0	-25.3	-22.8	-28.0										3	260	2323	4	290	2323				29.49	
12 hr Max/Min				-22.8	-30.6																				
00-03Z				-23.4	-27.2										4	310	113	6	300	106					
03-06Z	300	6	-27.3	-22.3	-27.5										6	300	550	7	290	549				29.46	
06-09Z				-25.6	-32.9										5	300	629	7	340	612					
09-12Z	320	3	-29.2	-28.9	-30.9										3	320	1137	3	310	1138				29.45	
12 hr Max/Min				-22.3	-32.9																				

Avg Wind	Dir	Spd	Max Temp	Min Temp	Avg Temp	Visibility (hrs)			Min Wind Chill		WX and Duration			Pcpn Total	Max Wind			Max Gust			Avg Sky Cover	Low-est CIG	Ceiling (hrs)				
						<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs		Dir	Spd	Time	Dir	Spd	Time			Time	<500	<1000	<3000	
307		2	-22.3	-32.9	-27.6	00-06L	0	0	0	-35.0	-31.0	0	0	0	0.00	300	6	550	70	7	1912	1		00-06L	0	0	0
						06-12L	0	0	0							Altimeter								06-12L	0	0	0
						12-18L	0	0	0							Max	Min	Avg	Total Obs	Daily Pres	Daily Temp			12-18L	0	0	0
						18-24L	0	0	0							29.49	29.45	29.47	Taken	Diff	Diff			18-24L	0	0	0
															4	0.04	10.6										

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

Note 2: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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: 31

Time	Winds		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)
	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																									
15-18Z																									
18-21Z																									
21-24Z																									
12 hr Max/Min																									
00-03Z																									
03-06Z																									
06-09Z																									
09-12Z																									
12 hr Max/Min																									

Avg Wind	Max	Min	Avg	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			Dir	Spd	Time	Dir	Spd
												0.00													
												Altimeter													
												Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff								
															0										
				00-06L	0	0	0																		
				06-12L	0	0	0																		
				12-18L	0	0	0																		
				18-24L	0	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: When inputting WX and Duration entries, be sure to precede each wx type by a "/", ie. /sn. Duration should be a whole number, not 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.



	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7		Day 8		Day 9		Day 10		Day 11		Day 12		Day 13		Day 14		Day 15	
12-15Z																														
15-18Z	150	13	340	16	60	12	0	0	110	8	110	15	120	7	40	18	350	5	300	9	50	13	60	7	0	0	340	8	50	19
18-21Z																														
21-24Z	170	21	330	15	0	0	50	17	100	18	140	29	150	15	0	0	310	4	330	11	110	10	340	16	0	0	0	0	340	16
00-03Z																														
03-06Z	150	18	60	7	330	4	160	27	130	23	180	35	80	9	340	7	50	16	320	10	170	32	290	6	80	9	340	7	330	8
06-09Z																														
09-12Z	0	0	70	14	0	0	60	25	VRB	6	180	17	60	13	310	3	310	13	90	8	50	20	0	0	0	0	120	10	150	4
X*u / X*v																														
X*u / X*v	6.5	-11.3	-5.47	15.04	10.39	6	0	0	7.518	-2.74	14.1	-5.13	6.062	-3.5	11.57	13.79	-0.87	4.924	-7.79	4.5	9.959	8.356	6.062	3.5	0	0	-2.74	7.518	14.55	12.21
X*u / X*v																														
X*u / X*v	3.647	-20.7	-7.5	12.99	0	0	13.02	10.93	17.73	-3.13	18.64	-22.2	7.5	-13	0	0	-3.06	2.571	-5.5	9.526	9.397	-3.42	-5.47	15.04	0	0	0	0	-5.47	15.04
X*u / X*v																														
X*u / X*v	9	-15.6	6.062	3.5	-2	3.464	9.235	-25.4	17.62	-14.8	4E-15	-35	8.863	1.563	-2.39	6.578	12.26	10.28	-6.43	7.66	5.557	-31.5	-5.64	2.052	8.863	1.563	-2.39	6.578	-4	6.928
X*u / X*v																														
X*u / X*v	0	0	13.16	4.788	0	0	21.65	12.5	#####	#####	2E-15	-17	11.26	6.5	-2.3	1.928	-9.96	8.356	8	5E-16	15.32	12.86	0	0	0	0	8.66	-5	2	-3.46
Sum u/Sum v	19.15	-47.5	6.246	36.31	8.392	9.464	43.91	-1.94	#####	#####	32.74	-79.3	33.68	-8.43	6.878	22.3	-1.63	26.14	-11.7	21.69	40.23	-13.7	-5.05	20.59	8.863	1.563	3.53	9.095	7.083	30.71
Arctan	158.1		9.759		41.57		92.54		#####		157.6		104		17.14		-3.58		-28.4		108.8		-13.8		80		21.21		12.99	
Direction	158.1		9.759		41.57		92.54		#####		157.6		104		17.14		356.4		331.6		108.8		346.2		80		21.21		12.99	
Magnitude	13		13		4		17		14		24		11		7		10		10		18:00		7		2		6		12	

Avg Wind

	sin	cos
1 X*u / X*v	4.858	-12.058
2 X*u / X*v	2.204	12.812
3 X*u / X*v	2.654	2.993
4 X*u / X*v	17.233	-0.763
5 X*u / X*v	11.908	-6.875
6 X*u / X*v	9.153	-22.186
7 X*u / X*v	10.671	-2.670
8 X*u / X*v	2.064	6.689
9 X*u / X*v	-0.593	9.481
10 X*u / X*v	-4.517	8.357
11 X*u / X*v	17.746	-6.053
12 X*u / X*v	-1.727	7.041
13 X*u / X*v	2.216	0.391
14 X*u / X*v	2.261	5.827
15 X*u / X*v	2.640	11.449
16 X*u / X*v	15.158	9.707
17 X*u / X*v	9.426	4.026
18 X*u / X*v	2.219	-0.369
19 X*u / X*v	0.130	-0.739
20 X*u / X*v	11.541	4.108
21 X*u / X*v	12.984	7.999
22 X*u / X*v	#DIV/0!	#DIV/0!
23 X*u / X*v	13.108	9.175
24 X*u / X*v	3.750	6.495
25 X*u / X*v	#DIV/0!	#DIV/0!
26 X*u / X*v	4.924	0.868
27 X*u / X*v	3.201	0.564
28 X*u / X*v	2.462	-0.434
29 X*u / X*v	3.389	1.605
30 X*u / X*v	-1.805	1.343
31 X*u / X*v		
Sum u/Sum v	#DIV/0!	#DIV/0!
Arctan	#DIV/0!	
Direction	#DIV/0!	
Magnitude	8.908333	

Station:
NZCM

Monthly Climatology / Page 1

Month:
SEP 2004

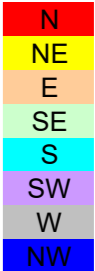
Date	Temp (C)			Visibility (hrs)															WX and Duration				Pcpn	Avg Wind		Max Wind		Max	
	Max	Min	Avg	< 1600					< 4800					< 9999					sn/sg/ic	fg/br	bs	Total	Amt	Spd	Dir	Spd	Dir	Gust	
				00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total	00-06L	06-12L	12-18L	18-24L	Total											
1	-26.9	-35.8	-31.4	0.50	4.00	3.00	0.00	7.50	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	5.50	0.00	11.00	16.50	0.03	13	158	29	150	35	
2	-25.4	-29.9	-27.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	4.00	6.00	0.00	0.00	1.00	2.00	3.00	10.00	0.00	0.00	10.00	0.20	13	10	20	340	28	
3	-26.0	-33.1	-29.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	4	42	18	50	25	
4	-18.4	-36.9	-27.7	0.00	0.00	1.00	6.00	7.00	0.00	2.00	4.00	0.00	6.00	0.00	2.00	1.00	0.00	3.00	5.50	3.00	14.00	22.50	0.01	17	93	37	160	43	
5	-18.0	-37.1	-27.6	6.00	6.00	6.00	0.00	18.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	22.00	22.00	0.00	14	120	51	180	60	
6	-17.0	-26.8	-21.9	0.00	0.00	0.50	1.00	1.50	0.00	0.00	0.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	6.50	0.00	24	158	37	160	48	
7	-21.5	-28.0	-24.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	1.00	4.00	1.00	6.00	3.00	0.00	10.00	11.00	2.00	2.00	0.00	11	104	32	150	36	
8	-26.4	-30.6	-28.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	3.00	0.00	1.00	0.00	7	17	23	50	29	
9	-22.2	-30.1	-26.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	2.00	14.00	1.00	0.00	0.00	0.00	1.00	12.00	0.00	3.00	15.00	0.00	10	356	18	50	22
10	-15.9	-28.7	-22.3	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	4.00	0.00	2.00	6.00	0.02	10	332	23	150	27	
11	-15.1	-32.9	-24.0	0.00	0.00	2.00	6.00	8.00	1.00	2.00	0.00	0.00	3.00	5.00	2.00	0.00	0.00	7.00	4.20	0.00	12.00	16.20	0.00	19	109	42	170	54	
12	-20.6	-33.2	-26.9	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	7	346	28	50	35	
13	-20.3	-27.7	-24.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	6.00	1.00	10.00	0.00	0.00	0.00	0.00	13.50	0.00	1.50	15.00	0.01	2	80	16	70	20	
14	-17.7	-28.3	-23.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	21	13	340	18	
15	-15.7	-28.6	-22.2	1.00	1.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	4.00	6.00	9.00	0.00	3.00	12.00	0.01	12	13	30	40	35
16	-14.1	-30.8	-22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.00	0.00	3.00	2.00	5.00	1.00	0.00	8.00	9.00	0.00	18	57	32	60	40
17	-21.4	-31.8	-26.6	0.00	0.00	0.00	0.00	0.00	0.00	6.00	1.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	7.00	0.00	10	67	35	50	42	
18	-22.2	-34.9	-28.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	2	99	13	100	14	
19	-18.2	-32.9	-25.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	170	10	340	14	
20	-20.0	-29.3	-24.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	70	24	70	29	
21	-23.8	-28.4	-26.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	58	28	60	34	
22	-19.1	-30.3	-24.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	#DIV/0!	18	20	22	
23	-25.0	-31.5	-28.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	2.00	0.00	1.00	2.00	3.00	0.00	16	55	31	60	37
24	-26.0	-32.9	-29.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	30	26	30	30	
25	-26.7	-35.2	-31.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	3.00	5.00	8.00	3.00	0.00	11.00	0.00	0	#DIV/0!	8	60	11
26	-24.5	-34.5	-29.5	1.00	2.00	0.00	0.00	3.00	0.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	7.00	11.00	0.00	5	80	20	80	25	
27	-24.6	-32.9	-28.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.00	6.00	0.00	3	80	15	50	19	
28	-23.5	-34.1	-28.8	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	1.00	8.00	6.00	0.00	14.00	0.00	3	100	12	100	16	
29	-21.4	-32.2	-26.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	65	13	40	16	
30	-22.3	-32.9	-27.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	307	6	300	7	
31				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

Monthly Statistics

Temp (C)			Visibility (hrs)												WX and Duration				Pcpn	Avg Wind		Max Wind		Max
Max	Min	Avg	< 1600				< 4800				< 9999				sn/sg/ic	fg/br	bs	Total	Total	Dir	Spd	Dir	Spd	Gust
-14.1	-37.1	-26.5	9.5	13.0	12.5	14.0	12.0	18.0	21.0	30.0	8.0	13.0	12.0	13.0	97.7	24.0	103.0	224.7	0.28	#DIV/0!	9	180	51	60

Total Hrs =or< 1600:	49.0	Total Hrs =or< 4800:	81.0	Total Hrs < 9999:	46.0
Total Days =or< 1600:	9	Total Days =or< 4800:	15	Total Days < 9999:	13
% Hrs =or< 1600:	0.1	% Hrs =or< 4800:	0.1	% Hrs < 9999:	0.1
% Days =or< 1600:	0.3	% Days =or< 4800:	0.5	% Days < 9999:	0.4

Total Hrs	
sn/sg/ic:	97.7
fg/br:	24.0
fg:	103.0
Total Days	
sn/sg/ic:	16
fg/br:	7
fg:	16



Station:
NZCM

Monthly Climatology / Page 2

Month:
SEP 2004

Date	Avg Sky Cover	Low-est CIG	Ceiling (hrs)															Altimeter (in)			Total Obs Taken	Daily Pres Diff	Daily Temp Diff	Min Wind Chill	Remarks	
			< 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	7	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	1.00	0.00	4.00	29.28	29.18	29.24	4	0.10	8.9	-64.0	
2	7	10	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	10.00	0.00	20.00	0.00	0.00	20.00	29.34	29.16	29.25	4	0.18	4.5	-55.0		
3	4	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.33	29.22	29.28	4	0.11	7.1	-53.0		
4	7	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	6.00	29.11	29.04	29.09	4	0.07	18.5	-76.0		
5	8	10	0.00	0.00	0.00	0.00	0.00	6.00	5.00	0.00	0.00	11.00	0.00	1.00	6.00	3.00	10.00	28.96	28.69	28.83	3	0.27	19.1	-76.0		
6	8	70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.50	28.96	28.61	28.75	4	0.35	9.8	-51.0		
7	7	70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.32	29.03	29.15	4	0.29	6.5	-54.0		
8	6	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	29.36	29.21	29.30	4	0.15	4.2	-58.0		
9	8	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	1.00	4.00	29.15	28.91	29.07	4	0.24	7.9	-48.0		
10	6	35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.61	28.21	28.36	4	0.40	12.8	-50.0		
11	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.00	8.00	28.96	28.25	28.52	4	0.71	17.8			
12	5	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16	28.93	29.07	4	0.23	12.6	-48.0		
13	7	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	6.00	6.00	0.00	13.00	28.83	28.71	28.78	4	0.12	7.4			
14	8	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.71	28.65	28.68	4	0.06	10.6			
15	7	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	2.00	29.05	28.82	28.96	4	0.23	12.9			
16	7	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	3.00	9.00	29.34	29.09	29.24	4	0.25	16.7			
17	4	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	3.00	29.41	29.29	29.34	4	0.12	10.4			
18	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.47	29.27	29.36	4	0.20	12.7			
19	6	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.68	29.55	29.63	4	0.13	14.7	-42.0		
20	4	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.70	29.66	29.68	4	0.04	9.3			
21	2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.65	29.54	29.59	4	0.11	4.6			
22	4	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00	29.50	29.25	29.40	4	0.25	11.2			
23	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.66	29.21	29.45	4	0.45	6.5			
24	4	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.79	29.73	29.76	4	0.06	6.9			
25	6	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	29.68	29.57	29.61	4	0.11	8.5			
26	5	3	1.00	2.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.59	29.55	29.57	4	0.04	10.0	-54.0		
27	6	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.52	29.35	29.45	4	0.17	8.3	-50.0		
28	3	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.34	29.29	29.32	4	0.05	10.6	-47.0		
29	6	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.46	29.35	29.41	4	0.11	10.8	-40.0		
30	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.49	29.45	29.47	4	0.04	10.6	-35.0		
31			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0					

Monthly Statistics

Avg Sky Cover	Ceiling (hrs)															Total Obs Taken	Min Wind Chill			
	< 500					< 1000					< 3000							Altimeter		
	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			Max	Min	Avg
5	1.0	2.0	0.0	0.0	6.0	15.0	0.0	0.0	8.0	40.0	27.5	13.0	29.79	28.21	29.22	119	-76.0			
Total Hrs =or< 500:					3.0	Total Hrs =or< 1000:					21.0	Total Hrs =or< 3000:					88.5	Total Days		30
Total Days =or< 500:					1	Total Days =or< 1000:					2	Total Days =or< 3000:					14			
% Hrs =or< 500:					0.0	% Hrs =or< 1000:					0.0	% Hrs =or< 3000:					0.1			
% Days =or< 500:					0.0	% Days =or< 1000:					0.1	% Days =or< 3000:					0.5			