

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
12-15Z				-21.7	-23.7										19	50	1434	23	50	1438						
15-18Z	40	17	-23.7	-23.2	-24.2										22	40	1745	25	50	1750	3				29.65	
18-21Z				-22.1	-23.5										20	50	1836	25	60	1835						
21-24Z	60	15	-23.7	-22.9	-25.0										20	50	2123	24	50	2130	6	20			3 29.63	
12 hr Max/Min				-21.7	-25.0																					
00-03Z				-23.9	-26.1										18	60	145	23	50	106						
03-06Z	70	11	-27.2	-25.9	-27.8										15	70	544	20	50	309	1				1 29.25	
06-09Z				-26.5	-27.9										13	60	814	17	50	820						
09-12Z	60	18	-27.1	-26.5	-27.8										18	50	1149	22	60	1105	0				29.42	
12 hr Max/Min				-23.9	-27.9																					
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
56	15	-21.7	-27.9	-24.8	00-06L	0	0	0	-53.0	-63.0	0	0	0	0.00	40	22	1745	50	25	1750	3	20	00-06L	0	0	0
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg									
															29.65	29.25	29.49									
															4	0.40	6.2									
					06-12L	0	0	0											06-12L	0	0	3				
					12-18L	0	0	0											12-18L	0	0	1				
					18-24L	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: 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				-28.6	-30.1										8	100	1239	10	110	1239						
15-18Z	100	8	-29.7	-27.9	-29.7										10	140	1629	15	130	1550	2				29.22	
18-21Z				-29.5	-31.0										12	110	1833	18	100	1833						
21-24Z	90	7	-30.7	-29.4	-33.0										8	150	2101	10	150	2100	1				29.17	
12 hr Max/Min				-27.9	-33.0																					
00-03Z				-29.9	-32.1										5	80	2357	5	310	15						
03-06Z		0	-31.4	-29.4	-31.8										3	270	403	4	260	402	5	100			29.13	
06-09Z				-27.7	-32.6										8	70	837	10	70	833						
09-12Z		0	-27.4	-27.1	-28.2										11	100	1017	16	120	1016	0				29.13	
12 hr Max/Min				-27.1	-32.6																					

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	
95	4	-27.1	-33.0	00-06L	0	0	0	-49.0	-56.0	0	0	0	0.00	110	12	1833	100	18	1833	2	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	29.22	29.13	29.16	2	0.09	5.9	12-18L	0	0	0
				18-24L	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: 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	
12-15Z				-27.3	-28.3										6	150	1226	8	90	1422						
15-18Z		0	-28.9	-27.9	-29.2										4	180	1728	4	160	1729	3				29.10	
18-21Z				-28.5	-29.9										3	180	1824	4	110	1941						
21-24Z	360	5	-29.2	-28.3	-30.6										7	340	2350	10	350	2350	0				29.08	
12 hr Max/Min				-27.3	-30.6																					
00-03Z				-28.2	-32.8										10	330	10	13	320	8						
03-06Z	90	4	-32.7	-32.5	-33.7										5	80	548	7	70	543	0				29.08	
06-09Z				-31.0	-32.9										7	90	646	9	110	646						
09-12Z		0	-31.3	-30.8	-31.8										4	360	1129	5	350	1123	0				29.10	
12 hr Max/Min				-28.2	-33.7																					

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	
39	2	-27.3	-33.7	-30.5	00-06L	0	0	0	-44.0	-47.0	0	0	0	0.00	330	10	10	320	13	8	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 Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
					18-24L	0	0	0							29.10	29.08	29.09	2	0.02	6.4			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: 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				-31.1	-35.9										4	180	1244	8	170	1243						
15-18Z	50	3	-31.1	-30.4	-32.6										5	20	1650	7	360	1646	5	150			29.10	
18-21Z				-30.3	-33.4										4	360	1828	5	10	1827						
21-24Z		0	-32.1	-31.4	-33.2										3	350	2135	4	360	2244	3				29.15	
12 hr Max/Min				-30.3	-35.9																					
00-03Z				-30.9	-32.7										6	90	247	8	90	246						
03-06Z		0	-32.1	-29.5	-32.7										6	80	303	7	80	418	3				29.15	
06-09Z				-28.1	-36.2										10	60	848	14	90	726						
09-12Z	100	7	-28.6	-27.6	-36.2										10	110	1035	13	140	1057	0				29.16	
12 hr Max/Min				-27.6	-36.2																					

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	
86	3	-27.6	-36.2	-31.9	00-06L	0	0	0	-46.0	-51.0	0	0	0	0.00	60	10	848	90	14	726	3	150	00-06L	0	0	0
					06-12L	0	0	0							Altimeter								06-12L	0	0	0
					12-18L	0	0	0							Total Obs Taken								12-18L	0	0	0
					18-24L	0	0	0							29.16	29.10	29.14						18-24L	0	0	0
																		2	0.06	8.6						

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: 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	
12-15Z				-27.5	-30.1										11	120	1213	16	150	1212						
15-18Z		0	-30.4	-29.8	-30.9										5	310	1648	6	300	1737	6	150			29.18	
18-21Z				-27.4	-32.0										5	310	1844	7	320	1844						
21-24Z		0	-27.4	-27.1	-31.0										6	320	2311	9	330	2310	6	150			29.16	
12 hr Max/Min				-27.1	-32.0																					
00-03Z				-24.4	-27.5										11	340	218	17	340	200						
03-06Z	270	6	-30.5	-24.4	-30.4										14	340	339	18	340	338	7	150			29.12	
06-09Z				-30.4	-32.2										6	270	601	7	270	600						
09-12Z		0	-31.2	-30.5	-32.0										4	260	1103	6	270	1106	7	150			29.11	
12 hr Max/Min				-24.4	-32.2																					

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	
270	2	-24.4	-32.2	-28.3	00-06L	0	0	0	-54.0	-65.0	0	0	0	0.00	340	14	339	340	18	338	7	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							29.18	29.11	29.14	1	0.07	7.8			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: 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				-25.4	-31.2										13	340	1437	18	340	1436						
15-18Z		0	-28.3	-24.6	-29.3										12	340	1525	17	340	1511	3				29.07	
18-21Z				-26.8																						
21-24Z		0	-30.6		-30.6																0				29.07	
12 hr Max/Min				-24.6	-31.2																					
00-03Z																										
03-06Z		0	-31.4																		0				29.14	
06-09Z																										
09-12Z		0	-29.8																		0				29.26	
12 hr Max/Min				-29.8	-31.4																					

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	
0	-24.6	-31.4	-28.0	00-06L	0	0	0	-45.0	-49.0	0	0	0	0.00	340	13	1437	340	18	1436	1		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	29.26	29.07	29.14	0	0.19	6.8	12-18L	0	0	0
				18-24L	0	0	0															18-24L	0	0	0	

*****NOTE PASOS NOT RECORDING HISTORICAL DATA AS OF 12Z*****
 ****NOTE PASOS DOWN FROM 2130Z-0530Z****

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.



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		<3000
12-15Z																											
15-18Z			4	-29.4																				0			29.38
18-21Z																											
21-24Z	60	14		-28.6																				3			29.47
12 hr Max/Min				-28.6	-29.4																						
00-03Z				-28.4	-29.0												17	50	50	20	50	50					
03-06Z	50	14		-28.7	-29.4												14	50	544	19	50	430	5	150		29.54	
06-09Z				-28.6	-29.6												15	50	621	18	60	844					
09-12Z	50	10		-29.6	-30.2												18	50	937	22	50	936	5	150		29.55	
12 hr Max/Min				-28.4	-30.2																						

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	
54	11	-28.4	-30.2	-29.3	00-06L	0	0	0	-56.0	-69.0	0	0	0	0.00	50	18	937	50	22	936	3	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						29.55	29.38	29.49	3	0.17	1.8								
				18-24L	0	0	0																			

****PASOS DOWN UNTIL 0000Z, NO HISTORICAL DATA****

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.

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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	
12-15Z				-29.5	-30.4										17	50	1411	21	60	1358						
15-18Z	60	13	-29.7	-29.4	-30.2										15	50	1659	20	60	1708	5	80			29.53	
18-21Z				-29.5	-30.9										14	60	1819	19	70	2049						
21-24Z	80	13	-34.1	-30.9	-34.2										15	60	2215	19	70	2213	3				29.53	
12 hr Max/Min				-29.4	-34.2																					
00-03Z				-31.0	-35.7										13	90	1	15	80	1						
03-06Z		0	-33.6	-31.7	-34.9										10	80	435	12	80	431	0				29.50	
06-09Z				-32.3	-34.5										4	80	606	5	350	647						
09-12Z		0	-33.7	-32.7	-35.1			1		BR					3	40	1126	5	40	1125	0				29.58	
12 hr Max/Min				-31.0	-35.7																					

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	
70	7	-29.4	-35.7	-32.6	00-06L	0	0	0	-56.0	-69.0	0	0	0	0.00	50	17	1411	60	21	1358	2	80	00-06L	0	0	0
					06-12L	0	0	0							Altimeter						2	80	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	1							29.58	29.50	29.54	2	0.08	6.3			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.

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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	
12-15Z				-33.3	-41.1										4	360	1434	6	360	1443						
15-18Z		0	-31.8	-30.9	-39.9			6		BR	6				4	40	1612	7	360	1511	0				29.45	
18-21Z				-31.4	-39.5										4	300	2038	6	310	2033						
21-24Z		0	-32.9	-32.6	-37.5			5		BR	5				5	310	2330	7	340	2329	1				29.44	
12 hr Max/Min				-30.9	-41.1																					
00-03Z				-31.4	-32.9										6	300	243	8	310	238						
03-06Z		0	-36.1	-32.0	-36.6										6	300	349	7	300	349	3				29.40	
06-09Z				-32.6	-36.9										6	300	710	7	300	803						
09-12Z		0	-34.0	-33.6	-35.0										5	290	1019	7	280	1019	3				29.36	
12 hr Max/Min				-31.4	-36.9																					
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	
	0	-30.9	-41.1	-36.0	00-06L	0	0	6	-45.0	-49.0	0	11	0	0.00	300	6	243	310	8	238	2		00-06L	0	0	0
					06-12L	0	0	5							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	29.45	29.36	29.41			12-18L	0	0	0
					18-24L	0	0	0										0	0.09	10.2			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)
	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	
12-15Z					-29.2	-33.9									4	70	1358	5	80	1357						
15-18Z			0	-30.7	-27.6	-32.0									3	60	1742	4	180	1750	0				29.31	
18-21Z					-29.8	-36.0									4	170	1827	5	280	2038						
21-24Z			0	-25.4	-24.8	-34.0									4	350	2312	8	350	2312	0				29.29	
12 hr Max/Min					-24.8	-36.0																				
00-03Z					-26.3	-36.1									5	90	243	6	80	242						
03-06Z			0	-23.2	-22.3	-27.2									11	100	446	14	110	445	0				29.29	
06-09Z					-20.8	-31.1									13	50	621	15	50	619						
09-12Z	60		8	-19.5	-19.5	-29.0									17	100	947	21	100	936	0				29.29	
12 hr Max/Min					-19.5	-36.1																				

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	<3000
60		2	-19.5	-36.1	-27.8	00-06L	0	0	0	-42.0	-44.0	0	0	0	0.00	100	17	947	100	21	936	0		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	1	0.02	16.6			12-18L	0	0	0
						18-24L	0	0	0							29.31	29.29	29.30						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: 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)
	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	
12-15Z					-18.8	-26.3										10	90	1342	12	90	1340					
15-18Z	80	10	-20.4	-19.9	-25.9										10	90	1748	13	50	1531	0				29.33	
18-21Z			-20.4	-20.4	-24.1										10	80	1803	12	80	1757						
21-24Z	110	10	-21.2	-20.1	-24.1										12	100	2338	17	130	2332	0				29.37	
12 hr Max/Min				-18.8	-26.3																					
00-03Z			-19.5	-19.5	-21.7										21	40	224	25	30	159						
03-06Z	50	12	-20.3	-18.9	-20.6										15	50	344	19	30	343	0				29.35	
06-09Z			-19.3	-19.3	-25.9										8	60	557	12	50	558						
09-12Z	0	0	-26.0	-24.4	-26.3										6	40	947	7	40	946	0				29.35	
12 hr Max/Min				-18.9	-26.3																					
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	
78	8	-18.8	-26.3	-22.6	00-06L	0	0	0	-49.0	-47.0	0	0	0	0.00	40	21	224	30	25	159	0		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							29.37	29.33	29.35						18-24L	0	0	0
																		4	0.04	7.5						

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

Note 2: 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	
12-15Z				-26.0	-28.9									3	30	1448	5	280	1413						
15-18Z	0	0	-27.6	-24.3	-34.4									6	350	1648	9	360	1647	0				29.36	
18-21Z				-25.4	-34.2									4	30	1909	6	180	1809						
21-24Z		0	-24.0	-21.2	-24.4									4	50	2248	4	340	2350	3				29.33	
12 hr Max/Min				-21.2	-34.4																				
00-03Z				-21.2	-26.1									13	100	242	15	100	242						
03-06Z	130	13	-16.8	-16.8	-26.0									17	140	433	24	140	432	7	40			29.38	
06-09Z				-15.1	-18.5									27	160	847	32	160	847						
09-12Z	110	11	-15.1	-13.9	-15.8									23	140	859	29	150	858	7	40			29.38	
12 hr Max/Min				-13.9	-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	<3000
121		6	-13.9	-34.4	-24.2	00-06L	0	0	0	-47.0	-53.0	0	0	0	0.00	160	27	847	160	32	847	4	40	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							29.38	29.33	29.36	3	0.05	20.5			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: 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				-16.0	-18.6										18	120	1357	25	130	1357					
15-18Z	70	9	-17.6	-17.3	-19.8									16	50	1721	22	50	1720	6	40			29.28	
18-21Z				-15.9	-17.2									11	60	1840	14	50	1839						
21-24Z		0	-17.8	-17.3	-21.3									4	30	2221	6	190	2059	6	40			29.11	
12 hr Max/Min				-15.9	-21.3																				
00-03Z				-15.0	-19.8									8	320	243	12	330	240						
03-06Z	350	6	-14.7	-13.9	-15.9									7	320	312	10	310	306	7	40			28.95	
06-09Z				-12.3	-19.8									10	180	817	13	170	817						
09-12Z	160	21	-13.5	-13.4	-18.0		3		sn	3		bs	3	26	160	1031	32	170	1013	8	40			28.92	
12 hr Max/Min				-12.3	-19.8																				

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
126	9		-12.3	-21.3	-16.8	00-06L	0	0	0	-39.0	-38.0	3	0	3	0.00	160	26	1031	170	32	1013	7	40	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	29.28	28.92	29.07			12-18L	0	0	0
						18-24L	0	3	0	*** SN AMT NOT RECORDABLE DUE TO BLSN*****														18-24L	0	0	0
																			3	0.36	9.0						

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				-12.4	-13.4										31	160	1444	34	160	1444							
15-18Z	170	27	-13.6	-12.3	-13.6	5	1		sn	6			bs	6		40	180	1707	53	190	1707	8	1	5			28.88
18-21Z				-13.4	-21.5										52	180	1913	64	180	1912							
21-24Z	100	15	-27.3	-21.6	-27.7	6			sn	6			bs	6		31	140	2118	42	140	2118	8	5	3	3		29.03
12 hr Max/Min				-12.3	-27.7																						
00-03Z				-22.3	-27.1										20	150	104	28	150	104							
03-06Z	40	10	-14.6	-14.6	-22.1	3			sn	6			bs	3		17	80	401	23	90	430	7	40	3			28.60
06-09Z				-13.5	-18.8										17	300	824	21	340	849							
09-12Z	350	20	-15.1	-15.2	-17.3	6			sn	6			bs	6		25	340	1139	31	340	1146	8	30				2
12 hr Max/Min				-13.5	-27.1																						
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	
95	18	-12.3	-27.7	-20.0	00-06L	5	1	0	-53.0	-63.0	24	0	21	0.00	180	52	1913	180	64	1912	8	1	00-06L	5	0	0	
					06-12L	6	0	0						Altimeter			Total	Daily	Daily								
					12-18L	3	0	0						Obs	Pres	Temp											
					18-24L	6	0	0	*Sn Amt not recordable due to BLSN*					29.03	28.34	28.71	Diff	Diff	Diff								
																4	0.69	15.4									

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: 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				-12.2	-15.1										28	340	1241	35	340	1240																
15-18Z	160	33	-15.9	-10.0	-16.1	6			sn	6		bs	6		50	160	1747	63	160	1746	8	5	6		28.65											
18-21Z				-15.2	-20.7										67	180	1808	81	170	1804																
21-24Z			-19.8			6			sn	6		bs	6								8	0	6		29.03											
12 hr Max/Min				-10.0	-20.7																															
00-03Z				-17.0	-19.4																8	0	6		29.62											
03-06Z			-21.8	-18.1	-23.1	6			sn	6		bs	6																							
06-09Z				-18.8	-23.1																															
09-12Z			-17.8	-17.8	-22.4	4			sn	6		bs	4								8	40	2		29.50											
12 hr Max/Min				-17.0	-23.1																															
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										
160	33	-10.0	-23.1	-16.6	00-06L	6	0	0	-42.0	-44.0	24	0	22	0.00	180	67	1808	170	81	1804	8	0	00-06L	6	0	0										
					06-12L	6	0	0						Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff																	
					12-18L	6	0	0						29.62	28.65	29.20	1	0.97	13.1				06-12L	6	0	0										
					18-24L	4	0	0															12-18L	6	0	0										
																																	18-24L	2	0	0

NOTE PASOS WIND DATA UNAVAILABLE AFTER 2130Z DUE TO WIND BIRD DAMAGE

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
12-15Z				-16.4	-18.5																					
15-18Z			-16.7	-16.0	-18.6	2			sn	2		bs	2													29.13
18-21Z				-15.0	-19.5										12	350	2000	38	80	1941						
21-24Z	340	13	-16.0	-15.9	-19.2										11	330	2335	15	340	2344	5	150				28.91
12 hr Max/Min				-15.0	-19.5																					
00-03Z				-11.6	-16.0										17	340	217	22	340	49						
03-06Z	350	9	-11.9	-11.4	-12.6	2			sn	3					15	340	426	20	350	411	8	80				28.83
06-09Z				-9.0	-11.8										11	80	758	14	90	758						
09-12Z		0	-8.7	-7.9	-9.6	2			sn	6					19	170	1058	22	180	1058	8	40				28.70
12 hr Max/Min				-7.9	-16.0																					
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
344	7	-7.9	-19.5	-13.7	00-06L	2	0	0	-31.0	-24.0	11	0	2	0.00	170	19	1058	80	38	1941	6	40	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	2	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	2	0	0						29.13	28.70	28.89	Taken	Diff	Diff							
															2	0.43	11.6									

*** NOTE PASOS DATA WIND DATA MISSING UNTI 1930Z***

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.



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		<1000
12-15Z				-6.2	-8.6										14	160	1304	18	180	1304						
15-18Z	120	7	-6.2	-5.8	-7.3				SN	6					9	350	1509	12	340	1509	8	10		4	28.58	
18-21Z				-5.9	-9.9										19	60	2050	24	70	2043						
21-24Z	60	19	-11.3	-10.0	-11.5				SN	6					22	50	2129	27	70	2107	7	40		3	28.67	
12 hr Max/Min				-5.8	-11.5																					
00-03Z				-11.5	-16.4										22	60	247	27	50	1						
03-06Z	70	20	-19.8	-15.7	-21.1	4			SN	2		bs	4		25	50	501	31	50	500	4				29.00	
06-09Z				-18.3	-21.3										25	50	707	30	140	840						
09-12Z	90	18	-19.4	-19.0	-20.4							BS	6		35	150	1103	41	150	1007	8	40			29.50	
12 hr Max/Min				-11.5	-21.3																					
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
78	16	-5.8	-21.3	-13.6	00-06L	0	0	0	-49.0	-56.0	14	0	10	0.00	150	35	1103	150	41	1007	7	10	00-06L	0	4	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily							
					12-18L	4	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.50	28.58	28.94	Taken	Diff	Diff							
																4	0.92	15.5								

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: 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	<1000	
12-15Z				-18.5	-20.6										21	60	1401	29	140	1205						
15-18Z	70	12	18.1	-17.9	-19.1							bs	6	18	60	1715	23	50	1714	6	40				29.71	
18-21Z				-18.1	-23.4									24	40	2020	28	60	2022							
21-24Z	40	13	-21.1	-19.5	-24.2							bs	5	25	50	2059	30	60	2059	4					29.71	
				-17.9	-24.2																					
00-03Z				-17.6	-24.1									13	40	4	16	30	2							
03-06Z		0	-22.5	-21.1	-26.2				SN	1				5	330	534	7	310	533	8	40				29.53	
06-09Z				-20.2	-23.4									5	70	845	5	50	845							
09-12Z	40	4	-21.7	-20.8	-22.1				SN	3				6	80	1101	7	80	1059	6	40				29.24	
12 hr Max/Min				-17.6	-26.2																					

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
52	7	-17.6	-26.2	-21.9	00-06L	0	0	0	-52.0	-62.0	4	0	11	0.00	50	25	2059	60	30	2059	6	40	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						29.71	29.24	29.55	3	0.47	8.6				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: 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	<1000	
12-15Z				-19.8	-22.1										7	80	1439	8	70	1440						
15-18Z	70	11	-23.7	-19.7	-23.9									16	60	1743	20	60	1736	6	40				29.11	
18-21Z				-21.4	-24.8									25	50	2010	30	50	2050							
21-24Z	50	17	-23.7	-23.7	-26.1	4							BS	4	23	50	2100	26	50	2144	1				29.08	
12 hr Max/Min				-19.7	-26.1																					
00-03Z				-22.4	-24.0										21	50	141	24	50	142						
03-06Z	80	5	-19.8	-19.7	-23.4									18	30	324	24	40	323	0					29.02	
06-09Z				-19.7	-26.0									5	160	812	10	170	745							
09-12Z		0	-24.1	-22.7	-25.4									5	1650	1147	7	170	1146	2					28.96	
12 hr Max/Min				-19.7	-26.0																					

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
61		8	-19.7	-26.1	-22.9	00-06L	0	0	0	-49.0	-56.0	0	0	4	0.00	50	25	2010	50	30	2050	2	40	00-06L	0	0	0
						06-12L	4	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							29.11	28.96	29.04	3	0.15	6.4			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: 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				-22.8	-25.0									3	350	1426	8	360	1334						
15-18Z		0	-19.4	-19.1	-22.9									6	350	1738	10	360	1736	4				28.90	
18-21Z				-17.4	-19.4									8	340	1802	11	340	2001						
21-24Z		0	-24.0	-17.2	-24.1									10	340	2100	14	340	2100	3				28.91	
12 hr Max/Min				-17.2	-25.0																				
00-03Z				-15.3	-24.1									9	80	232	10	80	231						
03-06Z	40	16	-17.8	-15.7	-18.7									25	30	525	28	30	524	8	40			28.95	
06-09Z				-17.4	-17.9									22	30	726	27	30	726						
09-12Z	60	14	-18.8	-17.4	-19.1				sn	2				21	50	1022	26	50	1022	8	30			29.04	
12 hr Max/Min				-15.3	-24.1																				

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	
49	8	-15.3	-20.2	00-06L	0	0	0	-41.0	-42.0	2	0	0	0.00	30	25	525	30	28	524	6	30	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	29.04	28.90	28.95	2	0.14	9.7	12-18L	0	0	0
				18-24L	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: 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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	<3000	
12-15Z				-18.3	-20.3									17	60	1169	21	60	1204							
15-18Z	120	18	-19.4	-17.8	-19.4	1			sn	6			bs	1						8	30			3	29.13	
18-21Z				-17.7	-19.7									25	120	1850	41	130	1905							
21-24Z	130	22	-21.3	-18.9	-21.4	3			sn	6			bs	3						6	80			3	29.22	
12 hr Max/Min				-17.7	-21.4																					
00-03Z				-20.9	-22.6									29	140	238	36	140	235							
03-06Z	110	18	-22.7	-22.6	-23.6				sn	6			bs	5						0					29.28	
06-09Z				-22.4	-24.9									20	30	826	28	130	608							
09-12Z	50	16	-23.9	-23.8	-24.9									19	50	1137	25	60	949	4					29.21	
12 hr Max/Min				-20.9	-24.9																					

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	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	
107	19	-17.7	-24.9	-21.3	00-06L	1	0	0	-52.0	-62.0	18	0	9	0.00	140	29	238	130	41	1905	5	30	00-06L	0	0	3
				06-12L	3	0	0					Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff									
				12-18L	0	0	0					29.28	29.13	29.21	4	0.15	7.2									
				18-24L	0	0	0											18-24L	0	0	0					



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				-22.7	-24.3									18	40	1337	22	50	1342						
15-18Z	20	9	-21.2	-21.3	-23.1									16	30	1633	20	40	1527	6	30			3	29.12
18-21Z				-21.0	-27.3									11	20	1806	13	40	1811						
21-24Z		0	-28.1	-27.8	-30.4									3	160	2309	3	20	2321	2				2	29.10
12 hr Max/Min				-21.0	-30.4																				
00-03Z				-24.2	-28.2									4	70	114	5	70	113						
03-06Z	70	8	-26.1	-24.1	-28.3									11	90	550	15	90	549	2					29.09
06-09Z				-25.6	-27.8									19	70	843	25	60	842						
09-12Z	60	12	-26.1	-26.0	-27.8									18	60	926	25	40	930	4					29.12
12 hr Max/Min				-24.1	-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
51	7	-21.0	-30.4	-25.7	00-06L	0	0	0	-52.0	-62.0	0	0	0	0.00	70	19	843	60	25	842	4	30	00-06L	0	0	3
				06-12L	0	0	0					Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff				06-12L	0	0	2		
				12-18L	0	0	0					29.12	29.09	29.11							12-18L	0	0	0		
				18-24L	0	0	0								3	0.03	9.4				18-24L	0	0	0		



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	
12-15Z				-24.5	-26.1										13	50	1202	17	50	1201					
15-18Z	160	4	-26.3	-24.2	-26.4									9	40	1507	12	50	1514	0					29.12
18-21Z				-25.5	-28.2									6	80	1914	7	40	1925						
21-24Z		0	-29.2	-26.8	-31.2									4	50	2332	5	300	2158	2					29.12
12 hr Max/Min				-24.2	-31.2																				
00-03Z				-26.3	-30.1									9	100	209	12	100	208						
03-06Z		0	-29.4	-25.8	-29.5									16	20	450	18	30	439	3					29.10
06-09Z				-27.0	-33.5									8	90	558	11	100	557						
09-12Z		0	-29.3	-27.5	-33.9									5	310	1039	7	300	1036	0					29.08
12 hr Max/Min				-25.8	-33.9																				

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)				
						Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br		bs	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
160		1	-24.2	-33.9	-29.1	00-06L	0	0	0	-54.0	-65.0	0	0	0	0.00	20	16	450	30	18	439	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 Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
						18-24L	0	0	0							29.12	29.08	29.11	1	0.04	9.7			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: 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	
12-15Z				-28.2	-33.5										3	350	1432	4	350	1431						
15-18Z		0	-27.6	-27.6	-33.5										5	50	1650	6	50	1650					29.08	
18-21Z				-27.1	-32.6										4	360	1928	5	360	1928						
21-24Z		0	-30.8	-29.3	-33.1										3	300	2315	4	300	2315					29.08	
12 hr Max/Min				-27.1	-33.5																					
00-03Z				-27.1	-31.1										3	340	250	5	280	103						
03-06Z	340	3	-26.3	-26.2	-28.8										3	340	542	4	360	507					29.08	
06-09Z				-27.2	-29.5										7	80	817	8	80	816						
09-12Z	50	7	-25.7	-25.6	-28.8										8	50	1150	11	40	1150					29.12	
12 hr Max/Min				-25.6	-31.1																					

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.

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
31	3	-25.6	-33.5	-29.6	00-06L	0	0	0	-38.0	-36.0	0	0	0	0.00	50	8	1150	40	11	1150	0		00-06L	0	0	0
					06-12L	0	0	0							Altimeter						0		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							29.12	29.06	29.09	2	0.06	7.9			18-24L	0	0	0



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	
12-15Z				-25.0	-26.1										13	40	1444	18	40	1444					
15-18Z	30	12	-26.1	-25.7	-26.5										17	30	1658	22	50	1718	0				29.15
18-21Z				-25.2	-27.2										17	30	1811	21	20	1811					
21-24Z		0	-34.1	-26.2	-34.2										3	40	2210	4	330	2255	0				29.21
12 hr Max/Min				-25.0	-34.2																				
00-03Z				-30.2	-33.9										2	140	106	2	260	250					
03-06Z		0	-31.1	-29.2	-34.5										3	340	544	5	340	543	0				29.25
06-09Z				-28.7	-36.9										5	300	848	6	290	848					
09-12Z		0	-34.4	-27.5	-34.5										4	170	1145	11	360	926	0				29.27
12 hr Max/Min				-27.5	-36.9																				

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
30	3		-25.0	-36.9	-31.0	00-06L	0	0	0	-51.0	-60.0	0	0	0	0.00	30	17	1658	50	22	1718	0		00-06L	0	0	0
						06-12L	0	0	0							Altimeter						0		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							29.27	29.15	29.22	1	0.12	11.9			18-24L	0	0	0



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				-27.0	-34.0									6	30	1222	7	350	1244						
15-18Z		0	-26.7	-26.4	-35.1									5	40	1728	6	170	1632	2				29.32	
18-21Z				-24.4	-26.5									8	90	2045	10	100	2039						
21-24Z		0	-31.6	-25.2	27.0									9	90	2302	11	90	2302	0				29.39	
12 hr Max/Min				-24.4	-35.1																				
00-03Z				-25.8	-33.2									5	300	203	27	330	123						
03-06Z	50	9	-24.1	-23.8	-29.1									13	50	403	16	50	403	0				29.48	
06-09Z				-24.1	-28.0									7	40	557	9	60	600						
09-12Z		0	-25.8	-25.1	-28.1									3	340	1029	4	180	935	5	40			29.58	
12 hr Max/Min				-23.8	-33.2																				

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.

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
50	2	-23.8	-35.1	-29.5	00-06L	0	0	0	-43.0	-45.0	0	0	0	0.00	50	13	403	330	27	123	2	40	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							29.58	29.32	29.44	1	0.26	11.3			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				-22.6	-26.9										12	30	1423	17	40	1425						
15-18Z	70	12	-25.1	-22.3	-28.9		6		sn		6				16	50	1648	19	50	1648	8	40			29.62	
18-21Z				-22.4	-25.1										13	80	1813	20	80	1812						
21-24Z	50	12	-26.0	-22.0	-26.3	3	3		sn		6		bs	3	16	30	2317	20	40	2332	7	40			29.63	
12 hr Max/Min				-22.0	-28.9																					
00-03Z				-24.8	-27.0										17	40	25	21	50	10						
03-06Z	40	13	-25.7	-24.9	-27.9	2	4		sn		6		bs	6	16	40	526	20	40	514	8	40			29.63	
06-09Z				-23.9	-30.1										19	30	837	21	30	847						
09-12Z	20	4	-27.9	-26.5	-29.4				sn		4		bs	1	21	30	837	23	30	914	4				29.59	
12 hr Max/Min				-23.9	-30.1																					
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
50	10	-22.0	-30.1	-26.1	00-06L	0	6	0	-54.0	-65.0	22	0	10	0.00	30	21	837	30	23	914	7	40	00-06L	0	0	0
					06-12L	3	3	0						Altimeter			Total	Daily	Daily							
					12-18L	2	4	0						Obs	Pres	Temp										
					18-24L	0	0	0						29.63	29.59	29.62	Taken	Diff	Diff							
																4	0.04	8.1								

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: 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	bs	hrs		Spd	Dir	Time	Spd	Dir	Time			<500	<1000	<3000	
12-15Z				-27.4	-28.6									15	30	1440	17	30	1438							
15-18Z	30	15	-30.7	-28.3	-31.2	3			sn	5		bs	3	19	30	1629	23	30	1625	6	40			29.49		
18-21Z				-29.6	-31.3									17	30	1833	21	20	1845							
21-24Z	60	13	-31.1	-28.9	-31.2	6			sn	6		bs	6	13	60	2350	17	60	2338	8	40			29.37		
12 hr Max/Min				-27.4	-31.3																					
00-03Z				-28.9	-31.4									14	30	242	20	40	41							
03-06Z	60	11	-31.3	-29.7	-31.3	2	4		sn	6		bs	6	16	60	531	20	60	530	6	40			29.25		
06-09Z				-30.4	-31.3									13	60	725	17	60	724							
09-12Z	0	0	-32.2	-30.3	-32.9				sn	4		bs	4	11	50	908	14	70	913	0				29.12		
12 hr Max/Min				-28.9	-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
49	10	-27.4	-32.9	-30.2	00-06L	3	0	0	-56.0	-69.0	21	0	19	0.00	30	19	1629	30	23	1625	5	40	00-06L	0	0	0
					06-12L	6	0	0						Altimeter			Total	Daily	Daily							
					12-18L	2	4	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	0	0	0						29.49	29.12	29.31	Taken	Diff	Diff							
																4	0.37	5.5								

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: 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				-30.9	-33.7									4	310	1444	7	310	1421						
15-18Z	280	3	-32.8	-31.0	-33.0									9	310	1541	12	310	1541	0				29.01	
18-21Z				-33.1	-34.4									3	10	1957	5	300	1806						
21-24Z		0	-34.0	-33.8	-35.0									3	40	2334	4	40	2333	0				28.90	
12 hr Max/Min				-30.9	-35.0																				
00-03Z				-33.4	-34.5									6	70	250	7	70	250						
03-06Z	60	4	-32.3	-32.2	-33.7									6	80	437	7	80	437	0				28.84	
06-09Z				-31.1	-32.5									8	80	832	11	90	831						
09-12Z	80	9	-31.2	-30.5	-31.5									11	60	1142	14	60	1103	0				28.82	
12 hr Max/Min				-30.5	-34.5																				

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
66		4	-30.5	-35.0	-32.8	00-06L	0	0	0	-49.0	-56.0	0	0	0	0.00	60	11	1142	60	14	1103	0		00-06L	0	0	0
						06-12L	0	0	0							Altimeter						0		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							29.01	28.82	28.89	3	0.19	4.5			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: 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				-31.7	-37.0									16	80	1335	20	70	1333						
15-18Z		0	-33.4	-31.3	-33.9									14	30	1503	16	50	1539	0				28.85	
18-21Z				-32.4	-36.0									4	170	2000	5	170	1833						
21-24Z		0	-37.4	-33.1	-38.9	2				fg	2			5	150	2107	6	150	2107	0				28.93	
12 hr Max/Min				-31.3	-38.9																				
00-03Z				-35.0	-37.9									3	160	204	4	180	207						
03-06Z	100	16	-33.7	-31.8	-35.4	1				FG	1			16	100	550	18	90	550	0				29.07	
06-09Z				-33.0	-37.6									21	60	848	27	60	848						
09-12Z	50	28	-37.9	-37.9	-38.4	3						bs	3	28	50	1146	37	50	1132	5	140			29.26	
12 hr Max/Min				-31.8	-38.4																				

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	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
68		11	-31.3	-38.9	-35.1	00-06L	0	0	0	-76.0	-105.0	0	3	3	0.00	50	28	1146	50	37	1132	1	140	00-06L	0	0	0
						06-12L	2	0	0							Altimeter								06-12L	0	0	0
						12-18L	1	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	0
						18-24L	3	0	0							29.26	28.85	29.03	2	0.41	7.6			18-24L	0	0	0



	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	40	17	70	18	100	8		0	50	3		0		0		4	60	13		0		0	80	10	0	0	70	9	170	27
18-21Z																														
21-24Z	60	15	60	24	90	7	360	5		0		0		0	60	14	80	13		0		0	110	10		0		0	100	15
00-03Z																														
03-06Z	70	11	40	22		0	90	4		0	270	6		0	50	14		0		0		0	50	12	130	13	350	6	40	10
06-09Z																														
09-12Z	60	18	130	5		0		0	100	7		0		0	50	10		0		0	60	8	0	0	110	11	160	21	350	20
X*u / X*v																														
X*u / X*v	10.93	13.02	16.91	6.156	7.878	-1.39			2.298	1.928					11.26	6.5							9.848	1.736	0	0	8.457	3.078	4.689	-26.6
X*u / X*v																														
X*u / X*v	12.99	7.5	20.78	12	7 4E-16		-0	5							12.12	7	12.8	2.257					9.397	-3.42					14.77	-2.6
X*u / X*v																														
X*u / X*v	10.34	3.762	14.14	16.85			4 2E-16				-6	-0			10.72	8.999							9.193	7.713	9.959	-8.36	-1.04	5.909	6.428	7.66
X*u / X*v																														
X*u / X*v	15.59	9	3.83	-3.21					6.894	-1.22					7.66	6.428					6.928	4	0	0	10.34	-3.76	7.182	-19.7	-3.47	19.7
Sum u/Sum v	49.84	33.28	55.67	31.8	14.88	-1.39	4	5	9.192	0.713	-6	-0	0	0	30.51	22.43	24.06	8.757	0	0	6.928	4	28.44	6.03	20.3	-12.1	14.6	-10.7	22.42	-1.84
Arctan	56.27		60.27		95.33		38.66		85.57		-90		#####		53.68		70		#####		60		78.03		120.8		126.4		94.69	
Direction	56.27		60.27		95.33		38.66		85.57		270		#####		53.68		70		#####		60		78.03		120.8		126.4		94.69	
Magnitude	15.25		17		4		2		3		2		0		11		7		0		0:00		8		6		9		18	

Avg Wind

		sin	cos
1	X*u / X*v	12.682	8.469
2	X*u / X*v	14.979	8.555
3	X*u / X*v	3.734	-0.349
4	X*u / X*v	1.406	1.757
5	X*u / X*v	2.493	0.193
6	X*u / X*v	-1.500	0.000
7	X*u / X*v		
8	X*u / X*v	8.460	6.219
9	X*u / X*v	6.108	2.223
10	X*u / X*v		
11	X*u / X*v	1.732	1.000
12	X*u / X*v	7.826	1.659
13	X*u / X*v	5.152	-3.076
14	X*u / X*v	7.248	-5.336
15	X*u / X*v	17.940	-1.471
16	X*u / X*v	11.287	-31.010
17	X*u / X*v	-2.010	7.052
18	X*u / X*v	15.638	3.385
19	X*u / X*v	5.741	4.428
20	X*u / X*v	7.229	3.976
21	X*u / X*v	5.688	4.888
22	X*u / X*v	17.677	-5.455
23	X*u / X*v	5.608	4.594
24	X*u / X*v	0.342	-0.940
25	X*u / X*v	1.274	2.151
26	X*u / X*v	1.500	2.598
27	X*u / X*v	1.724	1.446
28	X*u / X*v	7.826	6.619
29	X*u / X*v	7.307	6.456
30	X*u / X*v	3.667	1.598
31	X*u / X*v	10.181	4.165
<hr/>			
	Sum u/Sum v	188.937	35.797
	Arctan	79.272	
<hr/>			
	Direction	79.3	
	Magnitude	8.107527	

Station:
NZCM

Monthly Climatology / Page 1

Month:
May 2004

Date	Temp (C)			Visibility (hrs)															WX and Duration				Pcpn Amt	Avg Wind		Max Wind		Max Gust
	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	sn/sg/ic	fg/br	bs	Total	Dir	Dir							
1	-21.7	-27.9	-24.8	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	15	56	22	40	25	
2	-26.7	-30.7	-28.7	0.00	0.00	5.00	3.00	8.00	0.00	3.00	1.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	12.00	3.00	8.00	23.00	0.00	17	60	24	40	29
3	-27.1	-33.0	-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	0.00	0.00	0.00	0.00	4	95	12	110	18	
4	-27.3	-33.7	-30.5	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	2	39	10	330	13	
5	-27.6	-36.2	-31.9	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	3	86	10	60	14	
6	-24.4	-32.2	-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	270	14	340	18	
7	-24.6	-31.4	-28.0	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		13	340	18	
8	-28.4	-30.2	-29.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	54	18	50	22	
9	-29.4	-35.7	-32.6	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	1.00	1.00	0.00	0.00	0.00	0.00	7	70	17	50	21	
10	-30.9	-41.1	-36.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	5.00	0.00	0.00	11.00	0.00	11.00	0.00	0.00	0		6	300	8
11	-19.5	-36.1	-27.8	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	2	60	17	100	21	
12	-18.8	-26.3	-22.6	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	8	78	21	40	25	
13	-13.9	-34.4	-24.2	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	0.00	0.00	0.00	0.00	6	121	27	160	32	
14	-12.3	-21.3	-16.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	6.00	9	126	26	160	32	
15	-12.3	-27.7	-20.0	5.00	6.00	3.00	6.00	20.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	21.00	45.00	18	95	52	180	64	
16	-10.0	-23.1	-16.6	6.00	6.00	6.00	4.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	22.00	46.00	33	160	67	180	81	
17	-7.9	-19.5	-13.7	2.00	0.00	2.00	2.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.00	2.00	13.00	7	344	19	170	38	
18	-5.8	-21.3	-13.6	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00	10.00	24.00	16	78	35	150	41	
19	-17.6	-26.2	-21.9	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	4.00	0.00	11.00	15.00	7	52	25	50	30	
20	-19.7	-26.1	-22.9	0.00	4.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	8	61	25	50	30	
21	-15.3	-25.0	-20.2	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	2.00	0.00	0.00	2.00	8	49	25	30	28	
22	-17.7	-24.9	-21.3	1.00	3.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.00	9.00	27.00	19	107	29	140	41	
23	-21.0	-30.4	-25.7	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	7	51	19	70	25	
24	-24.2	-33.9	-29.1	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	1	160	16	20	18	
25	-25.6	-33.5	-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	31	8	50	11	
26	-25.0	-36.9	-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	0.00	0.00	0.00	0.00	0.00	0.00	3	30	17	30	22	
27	-23.8	-35.1	-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	2	50	13	50	27	
28	-22.0	-30.1	-26.1	0.00	3.00	2.00	0.00	5.00	6.00	3.00	4.00	0.00	13.00	0.00	0.00	0.00	0.00	0.00	22.00	0.00	10.00	32.00	10	50	21	30	23	
29	-27.4	-32.9	-30.2	3.00	6.00	2.00	0.00	11.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00	19.00	40.00	10	49	19	30	23	
30	-30.5	-35.0	-32.8	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	4	66	11	60	14	
31	-31.3	-38.9	-35.1	0.00	2.00	1.00	3.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	6.00	11	68	28	50	37	

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	
-5.8	-41.1	-26.1	17.0	30.0	25.0	18.0	7.0	6.0	9.0	3.0	6.0	5.0	0.0	1.0	155.0	17.0	122.0	294.0	0.00	79	8	180	67	81	

Total Hrs =or< 1600:	90.0	Total Hrs =or< 4800:	25.0	Total Hrs < 9999:	12.0
Total Days =or< 1600:	10	Total Days =or< 4800:	5	Total Days < 9999:	2
% Hrs =or< 1600:	0.1	% Hrs =or< 4800:	0.0	% Hrs < 9999:	0.0
% Days =or< 1600:	0.3	% Days =or< 4800:	0.2	% Days < 9999:	0.1

Total Hrs	sn/sg/ic:	155.0
	fg/br:	17.0
	fg:	122.0
Total Days	sn/sg/ic:	11
	fg/br:	3
	fg:	12

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

Station:
NZCM

Monthly Climatology / Page 2

Month:
May 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	3	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	0.00	3.00	1.00	0.00	4.00	29.65	29.25	29.49	4	0.40	6.2	-53.0	
2	5	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	0.00	0.00	29.32	29.24	29.28	4	0.08	4.0	-61.0	
3	2	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	0.00	0.00	29.22	29.13	29.16	2	0.09	5.9	-49.0	
4	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	29.10	29.08	29.09	2	0.02	6.4	-44.0	
5	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	0.00	0.00	29.16	29.10	29.14	2	0.06	8.6	-46.0	
6	7	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	0.00	0.00	29.18	29.11	29.14	1	0.07	7.8	-54.0	
7	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	29.26	29.07	29.14	0	0.19	6.8	-45.0	
8	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	0.00	0.00	29.55	29.38	29.49	3	0.17	1.8	-56.0	
9	2	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	0.00	0.00	29.58	29.50	29.54	2	0.08	6.3	-56.0	
10	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	0.00	0.00	29.45	29.36	29.41	0	0.09	10.2	-45.0	
11	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	29.31	29.29	29.30	1	0.02	16.6	-42.0	
12	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	29.37	29.33	29.35	4	0.04	7.5	-49.0	
13	4	40	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	29.38	29.33	29.36	3	0.05	20.5	-47.0	
14	7	40	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	29.28	28.92	29.07	3	0.36	9.0	-39.0	
15	8	1	5.00	3.00	0.00	0.00	8.00	0.00	3.00	3.00	0.00	6.00	0.00	0.00	0.00	2.00	2.00	2.00	2.00	29.03	28.34	28.71	4	0.69	15.4	-53.0	
16	8	0	6.00	6.00	6.00	2.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.62	28.65	29.20	1	0.97	13.1	-42.0	
17	6	40	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	29.13	28.70	28.89	2	0.43	11.6	-31.0	
18	7	10	0.00	0.00	0.00	0.00	0.00	0.00	4.00	3.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	29.50	28.58	28.94	4	0.92	15.5	-49.0	
19	6	40	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	29.71	29.24	29.55	3	0.47	8.6	-52.0	
20	2	40	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	29.11	28.96	29.04	3	0.15	6.4	-49.0	
21	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	0.00	0.00	0.00	0.00	0.00	29.04	28.90	28.95	2	0.14	9.7	-41.0	
22	5	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	6.00	6.00	29.28	29.13	29.21	4	0.15	7.2	-52.0	
23	4	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	2.00	0.00	0.00	5.00	5.00	29.12	29.09	29.11	3	0.03	9.4	-52.0	
24	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	29.12	29.08	29.11	1	0.04	9.7	-54.0	
25	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	29.12	29.06	29.09	2	0.06	7.9	-38.0	
26	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	29.27	29.15	29.22	1	0.12	11.9	-51.0	
27	2	40	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	29.58	29.32	29.44	1	0.26	11.3	-43.0	
28	7	40	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	29.63	29.59	29.62	4	0.04	8.1	-54.0	
29	5	40	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	29.49	29.12	29.31	4	0.37	5.5	-56.0	
30	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	29.01	28.82	28.89	3	0.19	4.5	-49.0	
31	1	140	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	29.26	28.85	29.03	2	0.41	7.6	-76.0	

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																	
3	11.0	9.0	6.0	2.0	4.0	6.0	3.0	0.0	6.0	8.0	1.0	2.0	29.71	28.34	29.20	75	-76.0																		
Total Hrs =or< 500:					28.0	Total Hrs =or< 1000:					13.0	Total Hrs =or< 3000:					17.0	Total Days =or< 500:					2	Total Days =or< 1000:					2	Total Days =or< 3000:					4
% Hrs =or< 500:					0.0	% Hrs =or< 1000:					0.0	% Hrs =or< 3000:					0.0	% Days =or< 500:					0.1	% Days =or< 1000:					0.1	% Days =or< 3000:					0.1
															Total Days			31																	