

# 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)	
	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	-31.0										18	50	1313	23	50	1312						
15-18Z	90	8	-27.8	-27.6	-30.6										16	50	1701	20	50	1701	0				29.52	
18-21Z				-27.9	-33.5										7	90	1757	10	100	1757						
21-24Z		0	-32.4	-31.4	-34.2										2	330	2350	4	330	2350	0				29.48	
12 hr Max/Min				-27.6	-34.2																					
00-03Z				-28.2	-34.5										6	360	141	9	340	223						
03-06Z		0	-33.4	-30.1	-35.7										5	320	519	8	350	446	0				29.36	
06-09Z				-31.4	-34.1										3	320	744	5	300	714						
09-12Z	60	5	-32.4	-32.2	-33.3										4	80	1150	5	70	1150	2				29.27	
12 hr Max/Min				-28.2	-35.7																					
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)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
79	3	-27.6	-35.7	-31.7	00-06L	0	0	0	-56.0	-69.0	0	0	0	0.00	50	18	1313	50	23	1312						
															Altimeter			Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
															Max	Min	Avg									
															29.52	29.27	29.41				2	0.25	8.1			
																					1					
																						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.

## 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				-29.7	-32.1										7	100	1446	9	100	1445						
15-18Z	50	5	-29.2	-29.1	-30.5										9	90	1501	11	90	1500	3				29.20	
18-21Z				-27.7	-29.5										9	70	2050	12	90	2037						
21-24Z	70	17	-29.1	-27.6	-34.0		1						bs		23	80	2340	27	80	2347	6	150			29.25	
12 hr Max/Min				-27.6	-34.0																					
00-03Z				-29.1	-32.5										28	50	103	34	70	229						
03-06Z	50	19	-32.7	-32.0	-33.4	5	1						bs		6	29	50	346	36	50	359	6	150		29.39	
06-09Z				-31.2	-33.7										25	40	916	32	50	808						
09-12Z	140	8	-31.8	-31.2	-33.8		4						bs		4	24	40	910	30	40	910	2			29.45	
12 hr Max/Min				-29.1	-33.8																					
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
69	12	-27.6	-34.0	-30.8	00-06L	0	0	0	-69.0	-93.0	0	0	11	0.00	50	29	346	50	36	359	4	150	00-06L	0	0	0
					06-12L	0	1	0						Altimeter			Total	Daily	Daily							
					12-18L	5	1	0						Obs	Pres	Temp										
					18-24L	0	4	0						Taken	Diff	Diff										
														29.45	29.20	29.32	4	0.25	6.4							

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: 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				-29.0	-32.7										15	140	1230	18	140	1228						
15-18Z	30	7	-26.4	-26.3	-30.0										13	40	1614	15	30	1701	2				29.47	
18-21Z				-26.5	-28.2										16	30	2029	19	30	2028						
21-24Z	30	5	-29.4	-27.6	-29.8										16	30	2119	18	30	2028	4				29.54	
12 hr Max/Min				-26.3	-32.7																					
00-03Z				-28.5	-30.3										11	30	244	17	30	243						
03-06Z		0	-34.5	-28.5	35.9										9	50	307	11	50	306	0				29.47	
06-09Z				-32.1	-37.6										5	180	749	8	190	748						
09-12Z		0	-31.3	-30.9	-35.1										4	350	1047	6	340	1046	6	150			29.36	
12 hr Max/Min				-28.5	-37.6																					
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
30	3	-26.3	-37.6	-32.0	00-06L	0	0	0	-53.0	-63.0	0	0	0	0.00	30	16	2029	30	19	2028	3	150	00-06L	0	0	0
					06-12L	0	0	0							Altimeter			Total	Daily	Daily			06-12L	0	0	0
					12-18L	0	0	0							Max	Min	Avg	Obs	Pres	Temp			12-18L	0	0	0
					18-24L	0	0	0							29.54	29.36	29.46	Taken	Diff	Diff			18-24L	0	0	0
																		2	0.18	11.3						

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.



## 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				-27.2	-32.3										8	60	1415	11	80	1414						
15-18Z		0	-26.0	-26.6	-32.8										24	90	1725	27	80	1725	0				29.30	
18-21Z				-24.9	-32.6										22	60	2024	29	60	2012						
21-24Z	60	24	-28.0	-24.9	-31.7										25	60	2347	33	60	2319	0				29.34	
<b>12 hr Max/Min</b>				<b>-24.9</b>	<b>-32.8</b>																					
00-03Z				-28.8	-33.6										28	80	149	37	60	49						
03-06Z	60	21	-309.0	-30.2	-32.6										24	50	548	30	60	531	0				29.46	
06-09Z				-30.4	-33.1										25	40	835	30	40	834						
09-12Z	50	14	-32.4	-32.1	-33.5										22	50	1020	27	50	1029	0				29.49	
<b>12 hr Max/Min</b>				<b>-28.8</b>	<b>-33.6</b>																					
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
58	15	-24.9	-33.6	-29.3	00-06L	0	0	0	-64.0	-83.0	0	0	0	0.00	80	28	149	60	37	49	0		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	0						29.49	29.30	29.40	Taken	Diff	Diff							
																3	0.19	8.7								

**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: 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				-31.9	-35.1										30	50	1359	35	40	1414						
15-18Z	60	22	-35.3	-34.3	-36.0										28	50	1545	34	40	1545	0				29.40	
18-21Z				-34.7	-36.2										28	50	1922	34	50	1921						
21-24Z	30	19	-34.8	-34.8	-36.9										23	30	2310	29	30	2309	0				29.34	
12 hr Max/Min				-31.9	-36.9																					
00-03Z				-34.3	-35.5										21	30	134	26	30	128						
03-06Z	20	7	-34.3	-33.9	-35.2										17	30	303	21	30	302	0				29.25	
06-09Z				-34.2	-36.1										15	20	641	18	30	640						
09-12Z	50	6	-34.3	-33.9	-36.5										11	100	908	14	90	907	0				29.14	
12 hr Max/Min				-33.9	-36.5																					

**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.

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	
43	14	-31.9	-36.9	-34.4	00-06L	0	0	0	-74.0	-101.0	0	0	0	0.00	50	30	1359	40	35	1414	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							29.40	29.14	29.28	4	0.26	5.0			18-24L	0	0	0





## 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				-33.5	-39.1										11	80	1442	13	90	1448							
15-18Z	70	11	-36.2	-34.8	-38.5										11	90	1728	13	90	1742	1				29.07		
18-21Z				-35.7	-37.8										12	80	1948	14	70	2039							
21-24Z	100	10	-37.2	-36.5	-38.8										13	90	2103	15	100	2322	0				29.08		
12 hr Max/Min				-33.5	-39.1																						
00-03Z				-36.5	-38.4										14	90	136	19	80	116							
03-06Z	100	9	-37.3	-37.3	-40.1										15	80	316	18	80	302	0				29.12		
06-09Z				-37.2	-39.0										15	80	847	18	70	846							
09-12Z	80	13	-38.5	-37.3	-38.9		2					bs	2		17	100	1036	22	80	1142	4				29.26		
12 hr Max/Min				-36.5	-40.1																						
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	
86	11	-33.5	-40.1	-36.8	00-06L	0	0	0	-68.0	-91.0	0	0		2	0.00	100	17	1036	80	22	1142			00-06L	0	0	0
					06-12L	0	0	0								Altimeter						1		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	2	0								29.26	29.07	29.13	4	0.19	6.6			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: 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				-38.2	-40.9										19	50	1316	24	50	1227						
15-18Z	50	15	-37.1	-36.5	-41.0	2							bs	2	20	50	1719	24	50	1718	3				29.32	
18-21Z				-34.4	-37.3										17	40	1904	21	50	1903						
21-24Z	50	12	-35.3	-33.2	-35.4										16	50	2349	19	50	2349	0				29.35	
12 hr Max/Min				-33.2	-41.0																					
00-03Z				-35.7	-40.6										26	30	250	31	50	226						
03-06Z	80	8	-36.8	-35.3	-40.2										28	30	324	32	30	324	0				29.34	
06-09Z				-34.8	-37.4										16	70	735	21	120	758						
09-12Z	50	9	-36.8	-36.3	-37.3										12	60	1037	16	50	1038	0				29.29	
12 hr Max/Min				-34.8	-40.6																					

  

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	Dir	Spd	Time	Time	<500
55	11	-33.2	-41.0	-37.1	00-06L	2	0	0	-78.0	-108.0	0	0	2	0.00	30	28	324	30	32	324	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							29.35	29.29	29.33	4	0.06	7.8			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.

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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				-35.6	-36.8										10	50	1450	13	50	1449						
15-18Z	30	13	-38.4	-35.4	-38.8										20	30	1737	22	30	1737	0				29.15	
18-21Z				-36.7	-38.3										17	20	1905	20	30	1835						
21-24Z		0	-41.3	-36.9	-42.1										7	30	2144	8	30	2143	0				29.06	
12 hr Max/Min				-35.4	-42.1																					
00-03Z				-37.3	-40.6										4	60	128	5	70	125						
03-06Z		0	-37.7	-37.1	-37.7										3	60	528	3	110	540	0				28.96	
06-09Z				-37.5	-38.7										4	30	822	5	30	822						
09-12Z	60	4	-37.4	-37.3	-38.2										5	50	1142	5	60	1142	0				28.93	
12 hr Max/Min				-37.1	-40.6																					

  

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	
37	4	-35.4	-42.1	-38.8	00-06L	0	0	0	-72.0	-98.0	0	0	0	0.00	30	20	1737	30	22	1737	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							29.15	28.93	29.03	2	0.22	6.7			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: 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				-36.3	-37.7										9	70	1449	11	70	1449							
15-18Z		0	-35.5	-35.5	-38.7										15	90	1708	17	90	1707	3				28.99		
18-21Z				-35.4	-38.9										13	90	1842	16	90	7821							
21-24Z	50	10	-35.0	-34.8	-40.0										10	50	2346	13	50	2350	3				29.16		
12 hr Max/Min				-34.8	-40.0																						
00-03Z				-35.5	-37.9										19	50	246	22	50	246							
03-06Z	50	20	-35.5	-34.8	-37.0		3						bs	3	22	30	517	26	40	542	8	10		5	29.36		
06-09Z				-35.3	-36.0										21	50	817	27	50	742							
09-12Z	40	18	-34.7	-34.0	-35.3	3	3						bs	6	27	30	1137	32	50	1132	8	10		6	29.51		
12 hr Max/Min				-34.0	-37.9																						
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	
46	12	-34.0	-40.0	-37.0	00-06L	0	0	0	-71.0	-97.0	0	0		9	0.00	30	27	1137	50	32	1132	6	10	00-06L	0	0	0
					06-12L	0	0	0							Altimeter									06-12L	0	0	0
					12-18L	0	3	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	5	0	
					18-24L	3	3	0							29.51	28.99	29.26	3	0.52	6.0			18-24L	0	6	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: 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)
	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					-34.7	-38.5										28	50	1417	37	40	1424					
15-18Z	40	19	-35.6	-33.1	-37.8	6							bs	6	29	30	1527	36	50	1508	8	10	6	29.57		
18-21Z				-34.7	-36.4										28	50	2012	34	50	2005						
21-24Z	90	13	-37.5	-35.8	-37.5	4							bs	6	23	60	2101	28	50	2059	8	150	4	29.55		
12 hr Max/Min				-33.1	-38.5																					
00-03Z				-37.3	-38.6										23	50	234	29	50	233						
03-06Z	40	13	-36.7	-36.1	-38.7	4		2					bs	6	23	30	312	29	20	340	3			29.40		
06-09Z				-36.3	-38.7										24	30	802	29	30	801						
09-12Z	50	25	-39.3	-37.7	-39.9			6					bs	6	29	30	1026	36	40	1116	3			29.33		
12 hr Max/Min				-36.1	-39.9																					

**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
52	18	-33.1	-39.9	00-06L	6	0	0	-78.0	-109.0	0	0	24	0.00	30	29	1527	40	37	1424	6	10	00-06L	0	6	0
				06-12L	4	0	0							Altimeter			Total Obs	Daily Pres	Daily Temp			06-12L	0	4	0
				12-18L	4	0	2							Max	Min	Avg	4	0.24	6.8			12-18L	0	0	0
				18-24L	0	0	6							29.57	29.33	29.46	Taken	Diff	Diff			18-24L	0	0	0

##





## 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	
12-15Z				-26.6	-27.7										11	100	1306	15	100	1313						
15-18Z	90	4	-27.6	-25.5	-28.4										10	130	1707	13	80	1521	3				29.38	
18-21Z				-25.3	-28.7										9	90	2047	13	120	2015						
21-24Z	9	11	-27.2	-14.2	-27.2										12	90	2340	15	100	2340	0				29.32	
<b>12 hr Max/Min</b>				<b>-14.2</b>	<b>-28.7</b>																					
00-03Z				-23.6	-31.3										12	100	2357	13	110	50						
03-06Z	40	4	-28.3	-26.7	30.9										5	150	259	8	200	325	0				29.22	
06-09Z				-26.8	-30.3										5	30	758	6	10	850						
09-12Z	0	0	-32.6	-26.6	-32.2										6	30	1134	9	220	1128	0				29.08	
<b>12 hr Max/Min</b>				<b>-23.6</b>	<b>-32.2</b>																					
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
31	5	-14.2	-32.2	-23.2	00-06L	0	0	0	-45.0	-49.0	0	0	0	0.00	90	12	2340	100	15	1313	1		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	0						Taken	Diff	Diff										
														29.38	29.08	29.25	4	0.30	18.0							

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	
12-15Z				-26.2	-33.4										5	360	1444	7	360	1443					
15-18Z	10	3	-25.7	-25.2	-28.8										5	350	1514	8	150	1620	0				28.95
18-21Z				-24.2	-29.8										4	200	2040	6	160	2009					
21-24Z		0	-26.8	-25.1	-29.5										4	40	2229	7	200	2137	0				28.85
12 hr Max/Min				-24.2	-33.4																				
00-03Z				-21.3	-27.4										4	360	249	6	340	249					
03-06Z	350	12	-17.2	-16.7	-21.5										17	340	541	21	330	531	0				28.70
06-09Z				-17.2	-22.8										16	340	645	20	330	712					
09-12Z	40	14	-20.8	-20.1	-24.1										15	50	1038	20	50	1035	2				28.62
12 hr Max/Min				-16.7	-27.4																				

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
16	7		-16.7	-33.4	-25.1	00-06L	0	0	0	-45.0	-49.0	0	0	0	0.00	340	17	541	330	21	531	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	Taken	Diff	Diff			12-18L	0	0	0
						18-24L	0	0	0							28.95	28.62	28.78						18-24L	0	0	0
																			3	0.33	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: 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				-20.8	-24.0										22	50	1440	28	40	1433					
15-18Z	50	16	-23.5	-22.1	-23.7										23	50	1725	29	50	1728	3				28.59
18-21Z				-23.7	-27.6										19	60	1834	23	70	1817					
21-24Z	60	14	-27.2	-26.1	-30.4										17	60	2309	21	50	2308	0				28.69
12 hr Max/Min				-20.8	-30.4																				
00-03Z				-25.7	-28.3										21	60	232	27	50	231					
03-06Z	50	11	-27.6	-26.4	-31.2										23	50	421	29	50	420	0				28.91
06-09Z				-25.9	-29.5										16	50	615	19	50	613					
09-12Z		0	-27.9	-26.7	-31.0										3	50	1150	4	40	1149	6	150			29.04
12 hr Max/Min				-25.7	-31.2																				

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
53		10	-20.8	-31.2	-26.0	00-06L	0	0	0	-63.0	-81.0	0	0	0	0.00	50	23	1725	50	29	1728	2	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							29.04	28.59	28.81	3	0.45	10.4			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: 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	
12-15Z				-25.1	-28.4										8	140	1449	10	150	1419						
15-18Z	150	13	-27.5	-25.1	-27.5										15	140	1741	19	140	1740	5	150			29.19	
18-21Z				-24.7	-28.4										27	180	2031	31	180	2031						
21-24Z	90	7	-25.3	-24.2	-25.5										10	50	2130	14	130	2250	6	150			29.35	
12 hr Max/Min				-24.2	-28.4																					
00-03Z				-24.9	-25.9										23	130	231	30	140	232						
03-06Z	80	10	-26.2	-25.0	-28.1										17	130	309	23	120	328	6	150			29.44	
06-09Z				-25.9	-26.8										12	110	703	16	100	658						
09-12Z	30	21	-29.2	-26.5	-29.4										27	30	1145	28	30	1144	6	150			29.47	
12 hr Max/Min				-24.9	-29.4																					
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
76	13	-24.2	-29.4	-26.8	00-06L	0	0	0	-60.0	-76.0	0	0	0	0.00	180	27	2031	180	31	2031	6	150	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						29.47	29.19	29.36	Taken	Diff	Diff							
																4	0.28	5.2								

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

Note 2: 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	
12-15Z				-27.7	-31.2									21	30	1325	25	30	1324						
15-18Z		0	-28.7	-27.6	-28.8									4	30	160	4	360	1617	6	150			29.50	
18-21Z				-28.4	-29.8									4	30	1959	4	360	2018						
21-24Z		0	-28.6	-27.8	-30.0									7	70	2214	8	80	2214	0				29.49	
12 hr Max/Min				-27.6	-31.2																				
00-03Z				-27.3	-30.6									6	100	17	7	80	126						
03-06Z		0	-27.7	-27.4	-31.6									4	60	509	5	70	508	0				29.44	
06-09Z				-27.0	-34.9									7	50	628	8	70	711						
09-12Z	40	9	-32.9	-32.7	-34.0									17	20	1122	21	20	1127	0				29.43	
12 hr Max/Min				-27.0	-34.9																				

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
40		2	-27.0	-34.9	-31.0	00-06L	0	0	0	-60.0	-76.0	0	0	0	0.00	30	21	1325	30	25	1324	2	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							29.50	29.43	29.47	1	0.07	7.9			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: 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	
12-15Z				-31.7	-33.1									15	30	1208	17	30	1208						
15-18Z	30	11	-30.9	-30.9	-32.4									13	30	1510	15	60	1603	0				29.39	
18-21Z				-31.0	-34.6									12	30	1812	15	20	1811						
21-24Z		0	-32.9	-32.6	-33.5									5	30	2322	5	30	2328	0				29.30	
12 hr Max/Min				-30.9	-34.6																				
00-03Z				-33.3	-38.7									3	20	228	4	70	131						
03-06Z		0	-34.4	-34.2	-35.4									5	40	458	5	40	458	0				29.21	
06-09Z				-34.4	-37.7									5	40	624	6	300	803						
09-12Z	80	8	-33.1	-33.1	-36.1									9	90	1150	10	90	1150	0				29.06	
12 hr Max/Min				-33.1	-38.7																				

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
51	5	-30.9	-38.7	-34.8	00-06L	0	0	0	-57.0	-71.0	0	0	0	0.00	30	15	1208	30	17	1208	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	Taken	Diff	Diff			12-18L	0	0	0
					18-24L	0	0	0							29.39	29.06	29.24						18-24L	0	0	0
																	2	0.33	7.8							

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

Note 2: 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				-32.4	-33.4										12	100	1427	15	100	1424					
15-18Z	90	10	-32.5	-31.5	-33.1										11	90	1508	13	100	1749	0				28.95
18-21Z				-31.6	-35.8										17	100	2027	19	100	2027					
21-24Z	80	17	-35.4	-32.3	-36.2										19	70	2311	22	80	2339	0				28.87
12 hr Max/Min				-31.5	-36.2																				
00-03Z				-35.3	-36.2										24	60	233	29	50	238					
03-06Z	50	22	-35.7	-35.7	-36.3										26	50	343	32	50	441	0				28.86
06-09Z				-33.9	-36.3										21	50	641	27	50	658					
09-12Z	10	4	-32.9	-32.1	33.7										90	50	910	10	50	910	0				28.87
12 hr Max/Min				-32.1	-36.3																				

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
65	13	-31.5	-36.3	-33.9	00-06L	0	0	0	-72.0	-98.0	0	0	0	0.00	50	90	910	50	32	441	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							28.95	28.86	28.89	4	0.09	4.8			18-24L	0	0	0



## 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				-32.0	-39.6										4	150	1450	6	190	1414					
15-18Z	40	8	-34.0	-33.6	-43.2									11	100	1647	14	90	1648	0				28.87	
18-21Z				-32.7	-39.9									10	30	1850	12	20	1845						
21-24Z		0	-38.1	-36.0	-40.1									2	130	2340	3	150	2335	0				28.76	
12 hr Max/Min				-32.0	-43.2																				
00-03Z				-34.7	-37.9									4	350	201	6	360	200						
03-06Z		0	-36.3	-34.9	-41.9									4	310	523	5	310	523	0				28.70	
06-09Z				-35.6	-38.8									4	30	827	5	20	815						
09-12Z	80	10	-36.4	-35.1	-38.5									11	80	1150	13	80	1124	0				28.69	
12 hr Max/Min				-34.7	-41.9																				

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
62	5	-32.0	-43.2	-37.6	00-06L	0	0	0	-56.0	-69.0	0	0	0	0.00	100	11	1647	90	14	1648	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							28.87	28.69	28.76	2	0.18	11.2			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		<1000	<3000
12-15Z				-34.2	-37.4										13	80	1450	15	80	1450							
15-18Z	80	11	-35.0	-33.3	-37.6										14	60	1613	17	80	1733	0				28.69		
18-21Z				-34.6	-37.9										19	60	1921	22	70	2006							
21-24Z	30	23	-37.3	-35.7	-38.0										24	30	2349	31	30	2348	0				28.74		
12 hr Max/Min				-33.3	-38.0																						
00-03Z				-37.6	-41.8										26	60	150	31	60	148							
03-06Z	50	20	-40.3	-40.1	-43.7		5					bs		5	24	60	404	29	70	412	8	30			3	28.80	
06-09Z				-40.8	-46.2										23	60	850	29	40	607							
09-12Z	50	17	-41.7	-40.9	-47.8		4					bs		4	25	50	924	31	50	924	8	30			6	28.88	
12 hr Max/Min				-37.6	-47.8																						
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	
48	18	-33.3	-47.8	-40.6	00-06L	0	0	0	-86.0	-123.0	0	0	0	9	0.00	60	26	150	30	31	2348	4	30	00-06L	0	0	0
					06-12L	0	0	0						Altimeter			Total	Daily	Daily								
					12-18L	0	5	0						Max	Min	Avg	Obs	Pres	Temp								
					18-24L	0	4	0						28.88	28.69	28.78	Taken	Diff	Diff								
																4	0.19	14.5									

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: 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		<1000
12-15Z				-38.5	-41.4									16	50	1240	21	50	1239							
15-18Z	40	11	-41.3	-37.7	-41.5									14	30	1747	17	30	1748	6	30			6	28.98	
18-21Z				-38.9	-41.7									14	40	1813	18	70	1942							
21-24Z	100	3	-38.1	-38.0	-40.2									12	80	2203	16	90	2202	0					2	29.05
12 hr Max/Min				-37.7	-41.7																					
00-03Z				-37.3	-39.9									8	80	209	9	80	209							
03-06Z	40	7	-36.4	-36.3	-37.2									9	80	447	11	70	445	0						29.10
06-09Z				-35.5	-36.3									11	50	627	13	40	627							
09-12Z	50	13	-37.2	-36.0	-37.5									13	50	1150	16	50	1150	3						29.15
12 hr Max/Min				-35.5	-39.9																					
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
49	9	-35.5	-41.7	-38.6	00-06L	0	0	0	-71.0	-96.0	0	0	0	0.00	50	16	1240	50	21	1239	2	30	00-06L	0	0	6
					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						29.15	28.98	29.07	Taken	Diff	Diff							
																4	0.17	6.2								

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.





## 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	
12-15Z				-37.0	-38.1									15	50	1432	19	50	1408						
15-18Z	10	6	-35.9	-35.4	-37.3									15	50	1532	18	60	1532	4				29.18	
18-21Z				-36.0	-37.1									12	70	1900	15	80	1859						
21-24Z	90	6	36.7	-35.2	-37.3									12	100	2333	16	90	2332	4				29.18	
12 hr Max/Min				-35.2	-38.1																				
00-03Z				-35.1	-37.4									12	120	208	19	120	207						
03-06Z	90	5	-33.9	-33.8	-35.7									12	130	421	17	140	420	4				29.13	
06-09Z				-33.9	-37.9									5	90	558	6	90	558						
09-12Z		0	-38.5	-35.6	-38.9									2	170	1110	3	250	930	4				29.07	
12 hr Max/Min				-33.8	-38.9																				

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	
64	4	-33.8	-38.9	-36.4	00-06L	0	0	0	-65.0	-85.0	0	0	0	0.00	50	15	1432	50	19	1408	4		00-06L	0	0	0
				06-12L	0	0	0					Altimeter			Total Obs	Daily Pres	Daily Temp									
				12-18L	0	0	0					29.18	29.07	29.14	3	0.11	5.1									
				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: 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				-36.7	-38.5										4	20	1212	4	340	1437					
15-18Z	360	3	-36.9	-36.8	-38.5									4	350	1731	5	40	1747	0					29.00
18-21Z				-36.3	-39.1									5	350	1817	6	340	1839						
21-24Z		0	-38.3	-36.2	-39.8									4	340	2150	5	330	2150	0					28.91
12 hr Max/Min				-36.2	-39.8																				
00-03Z				-35.2	-38.4									7	310	39	8	300	39						
03-06Z		0	-35.3	-35.2	-37.3									6	340	539	9	290	543	0					28.83
06-09Z				-34.6	-35.8									14	340	701	19	340	701						
09-12Z	330	7	-33.1	-32.9	-35.4									9	340	1145	12	320	1150	3					28.78
12 hr Max/Min				-32.9	-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
339		3	-32.9	-39.8	-36.4	00-06L	0	0	0	-61.0	-78.0	0	0	0	0.00	340	14	701	340	19	701	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							29.00	28.78	28.88	2	0.22	6.9			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	<1000	
12-15Z				-31.3	-33.8										19	330	1401	25	330	1348						
15-18Z	340	19	-29.2	-29.1	-31.2										23	340	1543	28	340	1545	6	30			3	28.65
18-21Z				-26.6	-31.2										18	330	1757	22	330	1801						
21-24Z		0	-29.5	-27.0	-31.2		3		sn		3				11	300	2326	15	360	2307	8	20			6	28.62
<b>12 hr Max/Min</b>				<b>-26.6</b>	<b>-33.8</b>																					
00-03Z				-26.8	-29.8										14	90	232	19	90	238						
03-06Z	60	8	-25.0	-24.6	-27.1		6		sn		6				14	120	501	21	130	321	8	30			6	28.57
06-09Z				-24.8	-26.3										20	130	707	24	140	736						
09-12Z	130	19	-25.2	-25.0	-26.5	5	1		sn		6		bs	6	21	130	1116	27	120	1136	8	30			6	28.56
<b>12 hr Max/Min</b>				<b>-24.6</b>	<b>-29.8</b>																					

**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
57		12	-24.6	-33.8	-29.2	00-06L	0	0	0	-63.0	-81.0	15	0	6	0.00	340	23	1543	340	28	1545	8	20	00-06L	0	0	3
						06-12L	0	3	0							Altimeter								06-12L	0	0	6
						12-18L	0	6	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	0	0	6
						18-24L	5	1	0							28.65	28.56	28.60	3	0.09	9.2			18-24L	0	0	6



## 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	bs		hrs	Spd	Dir	Time	Spd	Dir			Time	<500	<1000		<3000
12-15Z				-25.2	-26.8									18	50	1415	26	140	1307							
15-18Z	60	26	-25.8	-25.8	-26.2	6			sn	3		bs	6	16	50	1730	23	80	1610	8	30		6	28.53		
18-21Z				-24.7	-28.5									31	140	1937	36	150	1937							
21-24Z	60	19	-34.9	-28.6	-31.8	6						bs	6	25	50	2325	31	50	2235	8	30		6	28.67		
12 hr Max/Min				-24.7	-31.8																					
00-03Z				-30.4	-31.5									28	50	150	33	50	150							
03-06Z	70	20	-30.6	-30.3	-30.9	6						bs	6	24	50	419	30	40	418	8	30		6	28.77		
06-09Z				-29.5	-31.4									19	50	846	25	40	821							
09-12Z	20	4	-29.2	-28.5	-31.9	3						bs	3	22	50	915	26	50	915	8	30		6	28.74		
12 hr Max/Min				-28.5	-31.9																					
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)				
Dir	Spd	Temp	Temp	Temp	Time	<1600	<4800	<9999	C	F	sn/sg/ic	fg/br	bs	Total	Dir	Spd	Time	Dir	Spd			Time	Time	<500	<1000	<3000
61	17	-24.7	-31.9	-28.3	00-06L	6	0	0	-65.0	-85.0	3	0	21	0.00	140	31	1937	150	36	1937	8	30	00-06L	0	0	6
					06-12L	6	0	0						Altimeter			Total	Daily	Daily							
					12-18L	6	0	0						Max	Min	Avg	Obs	Pres	Temp							
					18-24L	3	0	0						28.77	28.53	28.68	Taken	Diff	Diff							
															4	0.24	7.2									

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.





## 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	<3000
12-15Z				-28.3	-29.7										11	340	1327	14	340	1340							
15-18Z	310	10	-29.5	-28.3	-29.6										12	330	1618	16	330	1616	6	30			6	28.62	
18-21Z				-29.5	-32.5										9	320	1815	12	310	1815							
21-24Z		0	-33.6	-32.1	-33.7										4	30	2324	4	20	2325	0					2	28.50
12 hr Max/Min				-28.3	-33.7																						
00-03Z				-32.0	-33.6										11	80	223	15	70	218							
03-06Z	100	14	-32.9	-29.8	-33.2										14	80	524	18	80	522	0						28.50
06-09Z				-31.9	-34.7										13	90	625	16	100	618							
09-12Z		0	-31.4	-31.5	-35.0										8	80	942	8	80	959	3						28.63
12 hr Max/Min				-29.8	-35.0																						
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	
57	6	-28.3	-35.0	-31.7	00-06L	0	0	0	-53.0	-63.0	0	0	0	0.00	80	14	524	80	18	522	2	30	00-06L	0	0	6	
					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						28.63	28.50	28.56	Taken	Diff	Diff								
																2	0.13	6.7									

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

Note 2: 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				-30.0	-38.0									5	60	1349	6	40	1204						
15-18Z		6	-31.8	-31.8	-37.9									8	340	1750	12	350	1750	0				28.72	
18-21Z				-30.9	-32.3									8	340	1824	12	340	1814						
21-24Z	60	4	-30.5	-30.5	-33.2									5	60	2350	7	50	2349	0				28.80	
12 hr Max/Min				-30.0	-38.0																				
00-03Z				-30.5	-32.6									8	60	38	9	60	34						
03-06Z		0	-33.0	-31.2	-34.4									4	60	305	5	50	524	0				28.88	
06-09Z				-30.8	-33.2									19	40	844	24	40	825						
09-12Z	60	13	-32.0	-31.0	-32.6									20	50	1125	24	50	1119	0				29.00	
12 hr Max/Min				-30.5	-34.4																				

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	6		-30.0	-38.0	-34.0	00-06L	0	0	0	-60.0	-76.0	0	0	0	0.00	50	20	1125	40	24	825	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							29.00	28.72	28.85	2	0.28	8.0			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: 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				-32.2	-33.2										18	50	1232	22	50	1219						
15-18Z	50	17	-34.7	-32.5	-34.8										22	50	1747	26	50	1746	0				29.09	
18-21Z				-32.7	-34.9										23	40	2040	27	50	2046						
21-24Z	40	10	-31.4	-30.5	-33.4										20	40	2102	25	40	2110	0				29.16	
12 hr Max/Min				-30.5	-34.9																					
00-03Z				-29.9	-31.6										12	40	201	17	40	243						
03-06Z	40	6	-28.9	-28.7	-30.7										11	40	442	15	40	549	0				29.21	
06-09Z				-27.6	-29.6										12	40	627	14	40	627						
09-12Z		0	-32.8	-27.5	-36.2										7	100	919	10	70	909	4				29.22	
12 hr Max/Min				-27.5	-36.2																					
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
45	8	-27.5	-36.2	-31.9	00-06L	0	0	0	-66.0	-87.0	0	0	0	0.00	40	23	2040	50	27	2046	1		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						29.22	29.09	29.17	Taken	Diff	Diff							
																3	0.13	8.7								

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: 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	
12-15Z				-28.1	-32.9										4	70	1342	5	70	1734					
15-18Z	140	4	-28.8	-26.3	-29.8									17	20	1740	21	30	1734	3				29.22	
18-21Z				-28.6	-35.6									6	330	2037	10	310	2034						
21-24Z	300	5	-34.3	-29.6	-36.5									7	300	2224	10	330	2230	0				29.19	
12 hr Max/Min				-26.3	-36.5																				
00-03Z				-29.8	-34.4									15	330	247	20	310	228						
03-06Z		0	-35.7	-28.3	-36.9									15	330	2328	21	320	314	0				29.10	
06-09Z				-28.7	-37.1									11	320	744	15	300	743						
09-12Z		0	-34.5	-30.3	-36.6									8	340	1012	10	320	1014	0				29.00	
12 hr Max/Min				-28.3	-37.1																				

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
252		2	-26.3	-37.1	-31.7	00-06L	0	0	0	-56.0	-69.0	0	0	0	0.00	20	17	1740	30	21	1734	1		00-06L	0	0	0
						06-12L	0	0	0							Altimeter											
						12-18L	0	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff						
						18-24L	0	0	0							29.22	29.00	29.13	2	0.22	10.8						

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

Note 2: 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				-33.7	-35.8										3	40	1158	3	360	1428					
15-18Z	60	5	-31.2	-30.9	-34.4										6	50	1745	8	70	1638	0				28.94
18-21Z				-29.4	-37.9										16	70	1944	21	70	1944					
21-24Z	60	23	-36.7	-32.6	-37.9	4							bs	4	28	50	2323	36	60	2147	8	1	4		28.97
<b>12 hr Max/Min</b>				<b>-29.4</b>	<b>-37.9</b>																				
00-03Z				-35.9	-37.4										30	50	26	35	50	37					
03-06Z	60	19	-33.7	-33.6	-37.7	6							bs	6	22	50	521	27	50	517	8	3	6		29.01
06-09Z				-30.7	-34.0										24	50	558	29	50	558					
09-12Z	90	9	-28.9	-28.6	-30.8	3							bs	3	16	70	1021	21	70	1021	8	30	2		28.98
<b>12 hr Max/Min</b>				<b>-28.6</b>	<b>-37.7</b>																				

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
65		14	-28.6	-37.9	-33.3	00-06L	0	0	0	-74.0	-101.0	0	0	13	0.00	50	30	26	60	36	2147	6	1	00-06L	0	0	0
						06-12L	4	0	0							Altimeter								06-12L	4	0	0
						12-18L	6	0	0							Max	Min	Avg	Total Obs Taken	Daily Pres Diff	Daily Temp Diff			12-18L	6	0	0
						18-24L	0	3	0							29.01	28.94	28.98	4	0.07	9.3			18-24L	2	0	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.







	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	90	8	50	5	30	7		0	60	22	70	11	50	15	30	13		0	40	19	60	14	90	4	10	3	50	16	150	13	
18-21Z																															
21-24Z		0	70	17	30	5	60	24	30	19	100	10	50	12		0	50	10	90	13		0	9	11		0	60	14	90	7	
00-03Z																															
03-06Z		0	50	19		0	60	21	20	7	100	9	80	8		0	50	20	40	13	100	6	40	4	350	12	50	11	80	10	
06-09Z																															
09-12Z	60	5	140	8		0	50	14	50	6	80	13	50	9	60	4	40	18	50	25	60	9	0	0	40	14		0	30	21	
X*u / X*v																															
X*u / X*v	8	5E-16	3.83	3.214	3.5	6.062			19.05	11	10.34	3.762	11.49	9.642	6.5	11.26			12.21	14.55	12.12	7	4	2E-16	0.521	2.954	12.26	10.28	6.5	-11.3	
X*u / X*v			15.97	5.814	2.5	4.33	20.78	12	9.5	16.45	9.848	-1.74	9.193	7.713			7.66	6.428		13	8E-16			1.721	10.86			12.12	7	7	4E-16
X*u / X*v			14.55	12.21			18.19	10.5	2.394	6.578	8.863	-1.56	7.878	1.389			15.32	12.86	8.356	9.959	5.909	-1.04	2.571	3.064	-2.08	11.82	8.426	7.071	9.848	1.736	
X*u / X*v	4.33	2.5	5.142	-6.13			10.72	8.999	4.596	3.857	12.8	2.257	6.894	5.785	3.464	2	11.57	13.79	19.15	16.07	7.794	4.5	0	0	8.999	10.72			10.5	18.19	
Sum u/Sum v	12.33	2.5	39.5	15.11	6	10.39	49.7	31.5	35.54	37.89	41.85	2.72	35.46	24.53	9.964	13.26	34.55	33.07	52.72	40.58	25.83	10.46	8.292	13.93	7.436	25.5	32.81	24.36	33.85	8.665	
Arctan	78.54		69.06		30		57.63		43.17		86.28		55.32		36.93		46.25		52.41		67.96		30.77		16.26		53.41		75.64		
<b>Direction</b>	78.54		69.06		30		57.63		43.17		86.28		55.32		36.93		46.25		52.41		67.96		30.77		16.26		53.41		75.64		
<b>Magnitude</b>	3.25		12		3		15		14		11		11		4		12		18		6:00		5		7		10		13		

## Avg Wind

	<b>sin</b>	<b>cos</b>
1 X*u / X*v	3.185	0.646
2 X*u / X*v	11.441	4.377
3 X*u / X*v	1.500	2.598
4 X*u / X*v	12.458	7.896
5 X*u / X*v	9.236	9.846
6 X*u / X*v	10.727	0.697
7 X*u / X*v	9.046	6.258
8 X*u / X*v	2.553	3.397
9 X*u / X*v	8.669	8.298
10 X*u / X*v	13.867	10.675
11 X*u / X*v	6.720	2.721
12 X*u / X*v	2.430	4.082
13 X*u / X*v	2.030	6.960
14 X*u / X*v	8.230	6.110
15 X*u / X*v	12.352	3.162
16 X*u / X*v	1.446	1.724
17 X*u / X*v	3.680	3.003
18 X*u / X*v	11.969	5.684
19 X*u / X*v	3.985	2.091
20 X*u / X*v	13.193	11.875
21 X*u / X*v	6.371	5.627
22 X*u / X*v	3.815	1.872
23 X*u / X*v	-0.901	2.332
24 X*u / X*v	9.671	6.222
25 X*u / X*v	15.012	8.402
26 X*u / X*v	5.025	3.278
27 X*u / X*v	4.980	2.875
28 X*u / X*v	5.849	5.818
29 X*u / X*v	-2.142	-0.687
30 X*u / X*v	12.657	5.984
31 X*u / X*v	22.997	3.423
Sum u/Sum v	232.052	147.247
Arctan	57.603	
<b>Direction</b>	57.6	
<b>Magnitude</b>	9.369468	

Station:  
NZCM

Monthly Climatology / Page 1

Month:  
July 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											
1	-27.6	-35.7	-31.7	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	3	79	18	50	23	
2	-27.6	-34.0	-30.8	0.00	0.00	5.00	0.00	5.00	0.00	1.00	1.00	4.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	11.00	12	69	29	50	36	
3	-26.3	-37.6	-32.0	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	3	30	16	30	19	
4	-24.9	-33.6	-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	0.00	15	58	28	80	37	
5	-31.9	-36.9	-34.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	43	30	50	35	
6	-33.5	-40.1	-36.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	11	86	17	100	22	
7	-33.2	-41.0	-37.1	2.00	0.00	0.00	0.00	2.00	0.00	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	2.00	11	55	28	30	32	
8	-35.4	-42.1	-38.8	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	37	20	30	22	
9	-34.0	-40.0	-37.0	0.00	0.00	0.00	3.00	3.00	0.00	0.00	3.00	3.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	9.00	12	46	27	30	32	
10	-33.1	-39.9	-36.5	6.00	4.00	4.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	6.00	8.00	0.00	0.00	24.00	24.00	0.00	18	52	29	30	37	
11	-26.6	-44.9	-35.8	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	7	68	26	50	34	
12	-14.2	-32.2	-23.2	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	0.00	5	31	12	90	15	
13	-16.7	-33.4	-25.1	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	7	16	17	340	21	
14	-20.8	-31.2	-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	0.00	0.00	0.00	10	53	23	50	29	
15	-24.2	-29.4	-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	13	76	27	180	31	
16	-27.0	-34.9	-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	0.00	2	40	21	30	25	
17	-30.9	-38.7	-34.8	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	5	51	15	30	17	
18	-31.5	-36.3	-33.9	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	0.00	13	65	90	50	32	
19	-32.0	-43.2	-37.6	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	5	62	11	100	14	
20	-33.3	-47.8	-40.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	4.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	9.00	18	48	26	60	31	
21	-35.5	-41.7	-38.6	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	9	49	16	50	21	
22	-33.8	-38.9	-36.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	64	15	50	19	
23	-32.9	-39.8	-36.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	339	14	340	19	
24	-24.6	-33.8	-29.2	0.00	0.00	0.00	5.00	5.00	0.00	3.00	6.00	1.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	6.00	21.00	12	57	23	340	28
25	-24.7	-31.9	-28.3	6.00	6.00	6.00	3.00	21.00	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	21.00	24.00	17	61	31	140	36
26	-28.3	-35.0	-31.7	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	6	57	14	80	18	
27	-30.0	-38.0	-34.0	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	60	20	50	24	
28	-27.5	-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	0.00	8	45	23	40	27	
29	-26.3	-37.1	-31.7	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	2	252	17	20	21	
30	-28.6	-37.9	-33.3	0.00	4.00	6.00	0.00	10.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	13.00	14	65	30	50	36	
31	-27.8	-36.7	-32.3	5.00	6.00	6.00	1.00	18.00	1.00	0.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	21.00	23	82	38	150	47	

Monthly Statistics

Temp (C)			Visibility (hrs)															WX and Duration				Pcpn Total	Avg Wind		Max Wind		Max Gust
Max	Min	Avg	< 1600					< 4800					< 9999					sn/sg/ic	fg/br	bs	Total		Dir	Spd	Dir	Spd	
-14.2	-47.8	-33.0	19.0	20.0	27.0	12.0	1.0	4.0	15.0	19.0	0.0	0.0	2.0	6.0	18.0	0.0	118.0	136.0	0.00	58	9	50	90	47			

Total Hrs =or< 1600:	78.0	Total Hrs =or< 4800:	39.0	Total Hrs < 9999:	8.0
Total Days =or< 1600:	8	Total Days =or< 4800:	7	Total Days < 9999:	1
% Hrs =or< 1600:	0.1	% Hrs =or< 4800:	0.1	% Hrs < 9999:	0.0
% Days =or< 1600:	0.3	% Days =or< 4800:	0.2	% Days < 9999:	0.0

Total Hrs	sn/sg/ic:	18.0
	fg/br:	0.0
	fg:	118.0
Total Days	sn/sg/ic:	2
	fg/br:	0
	fg:	10

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



Station:  
NZCM

Monthly Climatology / Page 2

Month:  
July 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	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	29.52	29.27	29.41	2	0.25	8.1	-56.0	
2	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	29.45	29.20	29.32	4	0.25	6.4	-69.0	
3	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	29.54	29.36	29.46	2	0.18	11.3	-53.0	
4	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	29.49	29.30	29.40	3	0.19	8.7	-64.0	
5	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	29.40	29.14	29.28	4	0.26	5.0	-74.0	
6	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	29.26	29.07	29.13	4	0.19	6.6	-68.0	
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	29.35	29.29	29.33	4	0.06	7.8	-78.0	
8	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	29.15	28.93	29.03	2	0.22	6.7	-72.0	
9	6	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	6.00	11.00	0.00	0.00	0.00	0.00	0.00	29.51	28.99	29.26	3	0.52	6.0	-71.0	
10	6	10	0.00	0.00	0.00	0.00	0.00	6.00	4.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	29.57	29.33	29.46	4	0.24	6.8	-78.0	
11	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	29.43	29.32	29.37	3	0.11	18.3	-76.0	
12	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	29.38	29.08	29.25	4	0.30	18.0	-45.0	
13	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	28.95	28.62	28.78	3	0.33	16.7	-45.0	
14	2	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	29.04	28.59	28.81	3	0.45	10.4	-63.0	
15	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	29.47	29.19	29.36	4	0.28	5.2	-60.0	
16	2	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	29.50	29.43	29.47	1	0.07	7.9	-60.0	
17	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	29.39	29.06	29.24	2	0.33	7.8	-57.0	
18	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	28.95	28.86	28.89	4	0.09	4.8	-72.0	
19	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	28.87	28.69	28.76	2	0.18	11.2	-56.0	
20	4	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	6.00	9.00	28.88	28.69	28.78	4	0.19	14.5	-86.0	
21	2	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	2.00	0.00	0.00	8.00	29.15	28.98	29.07	4	0.17	6.2	-71.0	
22	4		0.00	0.00	0.00	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	29.07	29.14	3	0.11	5.1	-65.0	
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	29.00	28.78	28.88	2	0.22	6.9	-61.0	
24	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	6.00	6.00	6.00	21.00	28.65	28.56	28.60	3	0.09	9.2	-63.0	
25	8	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	6.00	6.00	24.00	28.77	28.53	28.68	4	0.24	7.2	-65.0	
26	2	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	2.00	0.00	0.00	8.00	28.63	28.50	28.56	2	0.13	6.7	-53.0	
27	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	29.00	28.72	28.85	2	0.28	8.0	-60.0	
28	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	29.22	29.09	29.17	3	0.13	8.7	-66.0	
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	29.22	29.00	29.13	2	0.22	10.8	-56.0	
30	6	1	0.00	4.00	6.00	2.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	29.01	28.94	28.98	4	0.07	9.3	-74.0	
31	7	4	0.00	2.00	6.00	2.00	10.00	6.00	4.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	29.07	28.81	28.96	4	0.26	8.9	-72.0	

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
2	0.0	6.0	12.0	4.0	12.0	8.0	5.0	6.0	21.0	16.0	15.0	22.0	29.57	28.50	29.09	95	-86.0			
Total Hrs =or< 500: 22.0					Total Hrs =or< 1000: 31.0					Total Hrs =or< 3000: 74.0					Total Days					
Total Days =or< 500: 2					Total Days =or< 1000: 3					Total Days =or< 3000: 6					31					
% Hrs =or< 500: 0.0					% Hrs =or< 1000: 0.0					% Hrs =or< 3000: 0.1										
% Days =or< 500: 0.1					% Days =or< 1000: 0.1					% Days =or< 3000: 0.2										