

***Forecast Review of the
Palmer Station Daily Forecasts
for 1 and 2 May
with emphasis on AMPS performance***

Palmer Station meteogram 01/0000Z Palmer Station numerical 01/0000Z

Palmer Station: lat/lon = (-64.77, -64.05)

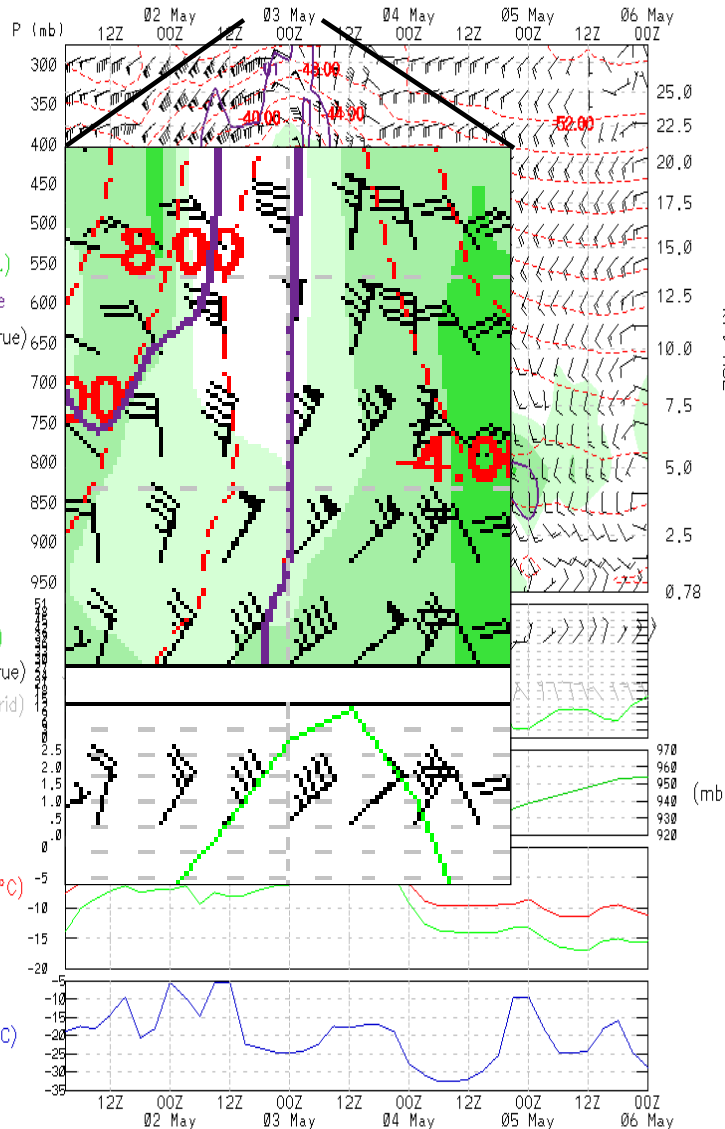
AMPS WRF Forecast Cycle:
2011-05-01/00 Z

Palmer Station PLM (lat, lon) = (-64.77, -64.05)
Forecast initialized at 2011050100
AMPS 16km domain

Model Grid ΔX:
15.000 km

- Temperature (°C)
- RH (% WRT liq. wat.)
- Cloud/Precip Outline
- Wind Barbs (kts) (true)
- RH > 70%
- RH > 80%
- RH > 90%

- Wind Spd (kts)
- Wind Barbs (true)
- Wind Barbs (grid)
- Precip (mm)
- liq. equiv.
- 3-hr accum
- Pressure (mb)
- Temperature (°C)
- Dewpoint (°C)
- Wind Chill T (°C)



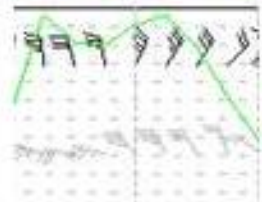
FCST UTC T Td Altn Spd Dir Gkt W VV RH1RH2RH3 T1T2T3 ACCUM
HR HR (°) (°) (h) (kt) (deg) (deg) (°) & wrt water (°) (°)

00	00	-7.7	-12.5	29.12	6	86	22	-009	075072049	M09M09M10	000
03	03	-6.0	-13.0	29.00	13	69	5	038	062062065	M07M08M09	000
06	06	-4.5	-9.9	28.86	11	71	6	039	070072087	M06M07M08	005
09	09	-4.0	-8.0	28.83	11	71	7	063	077080092	M06M06M07	046
12	12	-3.8	-6.6	28.87	8	84	20	062	085089091	M06M07M07	195
15	15	-3.8	-5.8	28.96	7	28	324	143	091092091	M06M07M08	259
18	18	-3.7	-6.9	28.96	20	40	336	131	082089094	M06M06M07	240
21	21	-3.9	-6.7	29.03	10	75	11	008	084091092	M06M07M08	117
24	00	-4.2	-6.4	29.14	8	246	182	019	088087086	M06M07M08	017
27	03	-3.8	-5.9	29.18	8	232	168	003	089092092	M06M07M08	028
30	06	-4.2	-9.0	29.23	11	216	152	-024	072079087	M06M07M09	068
33	09	-4.3	-6.9	29.24	4	281	217	-019	086089086	M06M08M09	049
36	12	-4.2	-7.6	29.23	4	18	314	010	081088070	M06M07M09	033
39	15	-4.3	-7.1	29.14	19	14	310	-031	084080087	M06M06M07	001
42	18	-3.1	-6.2	29.01	29	27	323	015	081079079	M04M05M05	008
45	21	-2.5	-5.4	28.81	36	34	330	045	081082067	M03M04M04	003
48	00	-2.3	-5.3	28.54	48	44	339	101	081077070	M03M03M03	008
51	03	-2.0	-4.6	28.25	53	45	341	138	083081085	M03M03M03	348
54	06	-1.2	-3.7	28.11	41	29	325	111	084084091	M02M02M03	492
57	09	-1.0	-1.7	28.07	21	342	278	039	095097093	M02M03M04	157
60	12	-1.2	-1.9	28.08	19	335	271	-076	095095093	M03M04M05	270
96	00	-6.6	-11.8	28.62	10	88	354	-017	071067086	M07M08M09	000
99	03	-7.8	-13.2	28.60	12	68	359	-002	070066079	M08M08M09	000
102	06	-8.7	-14.8	28.67	14					M08M08M09	000
105	09	-8.7	-15.1	28.73	14					M08M08M09	000
108	12	-8.8	-15.2	28.82	13					M08M08M09	000
111	15	-7.6	-13.9	28.89	11					M08M08M09	000
114	18	-7.2	-13.9	28.95	10	3	-437	000	000	M08M08M09	000
117	21	-7.8	-13.7	28.97	12	56	352	-023	067049062	M08M09M09	000
120	00	-8.4	-13.3	28.99	14	49	345	008	073062063	M07M08M09	000

53 knot peak

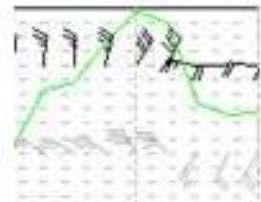
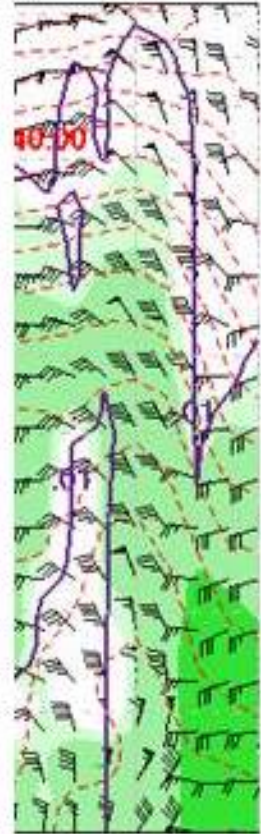
* NOTES on units:
WV (vertical velocity) is given as tenths of a microbar per second at 700 hPa, with positive values indicating upward motion;
ACCUM (accumulated precipitation, past 3h) is given as hundredths of a millimeter;
RH1, RH2, and RH3 are the % RH at the surface, 1000', and 3000', respectively;
T1, T2, and T3 are the temperatures at 500', 1000', and 1500', respectively.

03 May
00Z 12



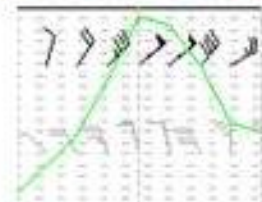
29/00Z

03 May
00Z 12



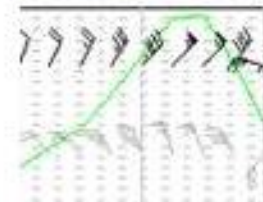
29/12Z

03 May
00Z 12



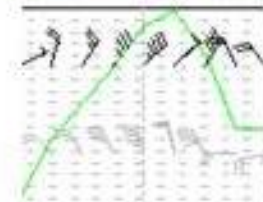
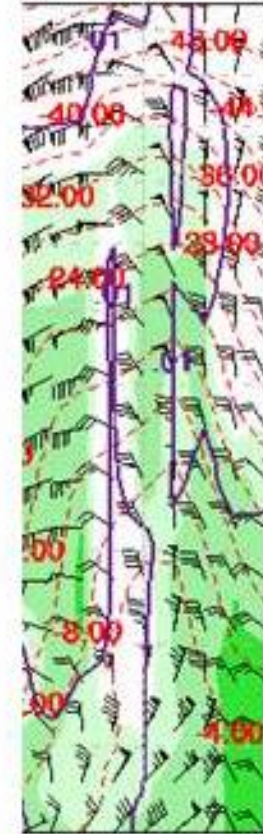
30/00Z

03 May
00Z 12



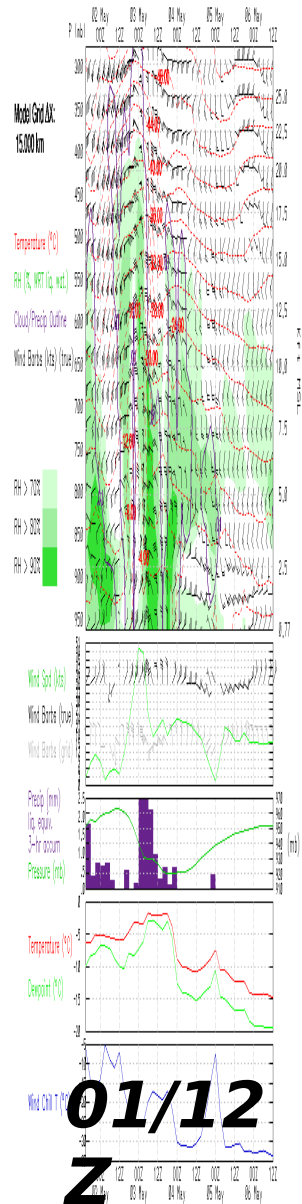
30/12Z

03 May
00Z 12

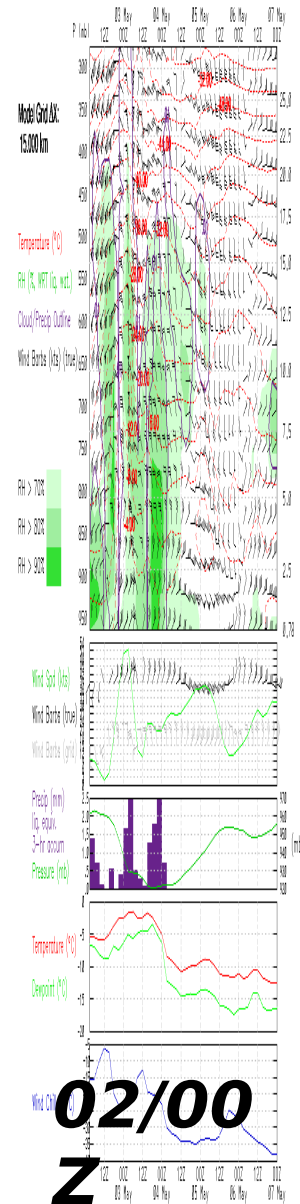


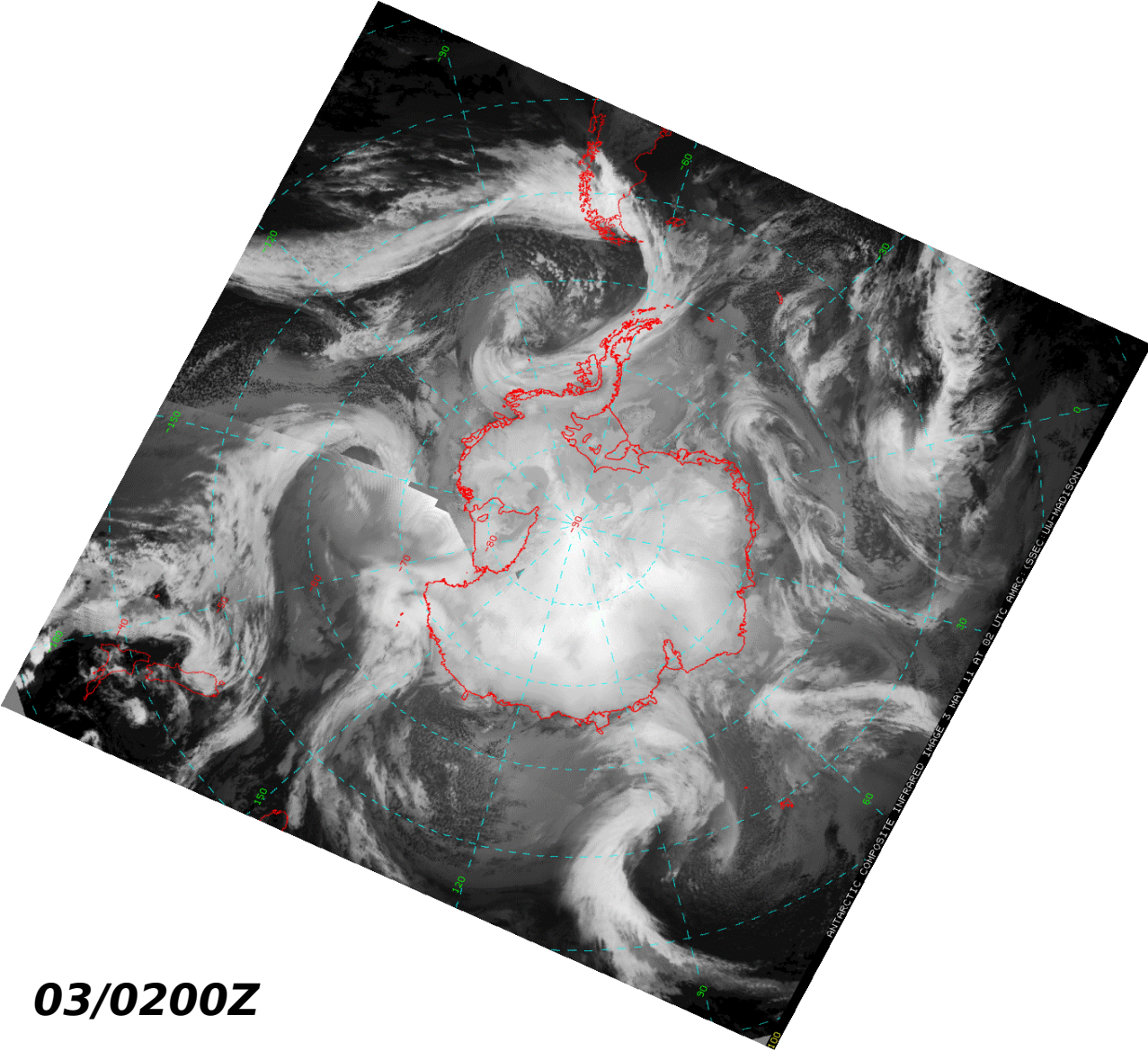
01/00Z

Palmer Station: latlon = (-84.77, -84.05)
 AMPS WRF Forecast Cycle: 281145-01/12 Z



Palmer Station: latlon = (-84.77, -84.05)
 AMPS WRF Forecast Cycle: 281145-02/00 Z

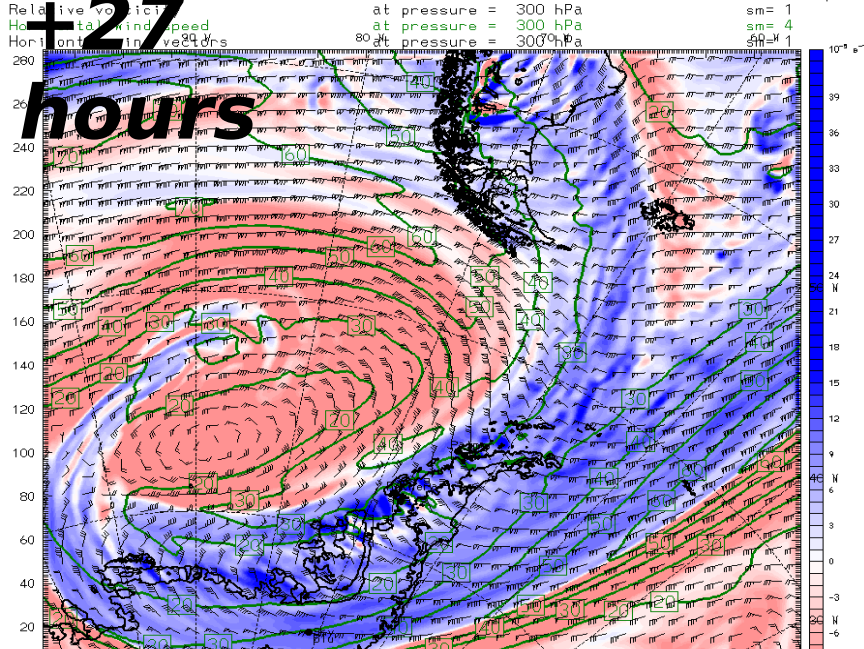




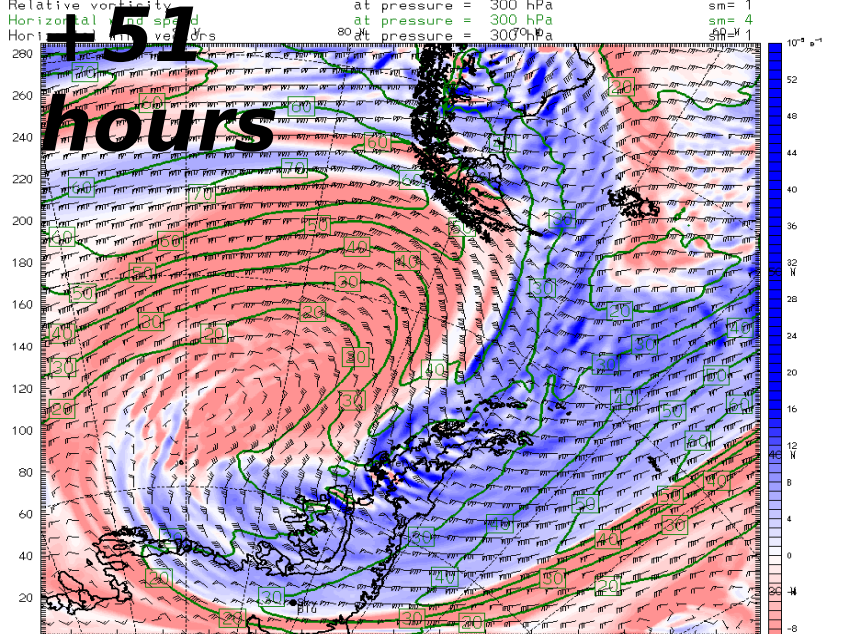
03/0200Z

**consistent 300mb ridge axis
placement at 03/0300Z**

Palmer 1-way nest
 Fcst. 27 h
 Valid: 03 UTC Mon 03 May 11



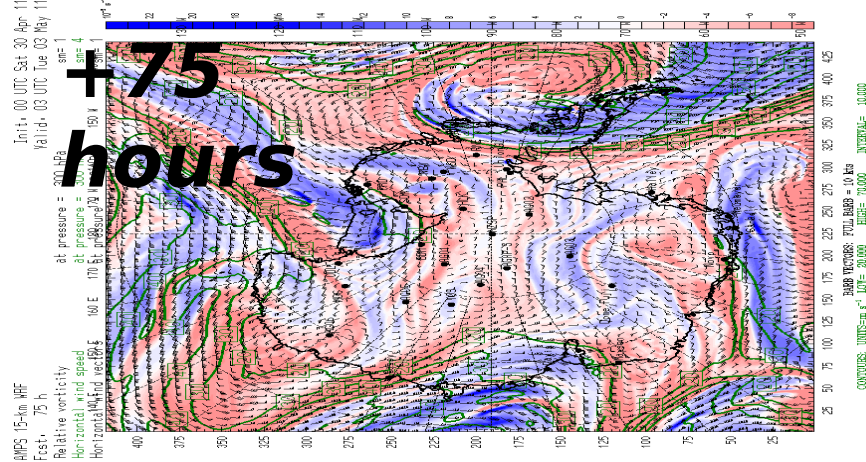
AMPS -- Palmer 1-way nest
 Fcst. 51 h
 Valid: 03 UTC Tue 03 May 11



Model Info: Y3.2.1 M KF
 SN: Goddard DIFF: simple KM: 2D Smagor

BARB VECTORS: FULL BARB = 10 kts
 LOW = 20.000 HIGH = 70.000 INTERVAL = 10.000
 MYJ PBL WSM 5class Noah LSM 11 km, 43 levels, 40 sec

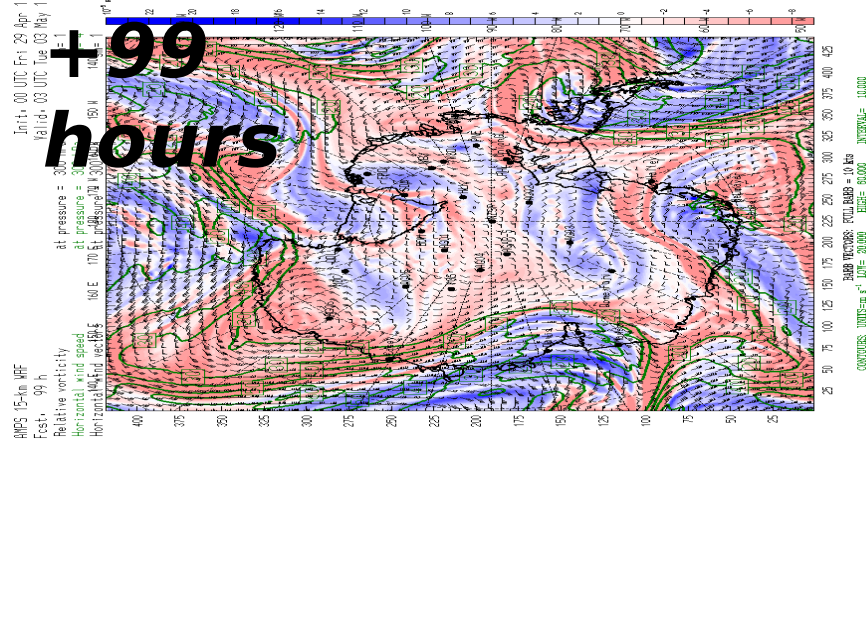
Init: 00 UTC Sat 30 Apr 11
 Valid: 03 UTC Tue 03 May 11



AMPS 15-tn NKF
 Fcst. 75 h
 Valid: 03 UTC Tue 03 May 11



AMPS 15-tn NKF
 Fcst. 99 h
 Valid: 03 UTC Tue 03 May 11



Model Info: Y3.2.1 M KF
 SN: Goddard DIFF: simple KM: 2D Smagor

BARB VECTORS: FULL BARB = 10 kts
 LOW = 20.000 HIGH = 70.000 INTERVAL = 10.000
 MYJ PBL WSM 5class Noah LSM 11 km, 43 levels, 40 sec

Today
1 May



Tonight



Tomorrow
2 May



Sky: Cloudy

Visibility (mi): 1-3 snow

Wind (kts): NE 6-12,
becoming NE 12-22

Max Temp: -2°C / 28°F

Min Wind Chill: -10°C / 14°F

Sky: Cloudy

Visibility (mi): 4-6 light
snow

Wind (kts): SW 7-15

Min Temp: -3°C / 27°F

Min Wind Chill: -10°C / 14°F

Sky: Cloudy

Visibility (mi): Unrestricted,
becoming ½- 1 snow

Wind (kts): NE 6-12
becoming NE 20-35,
becoming NE 35-50,
becoming NE 50-70

Max Temp: -1°C / 30°F

Min Wind Chill: -15°C / 5°F

Today
2 May



Tonight



Tomorrow
3 May



Sky: Cloudy

Visibility (mi): Unrestricted, with periods of 3 – 5 in light snow

Wind (kts): Light / Variable, becoming NE 30 – 50 by evening

Max Temp: -1°C / 30°F

Min Wind Chill: -13°C / 9°F

Sky: Cloudy

Visibility (mi): 3 – 5 in light snow, becoming less than 1 in heavy snow around midnight

Wind (kts): NE 30 – 50, with possible gusts to 60

Min Temp: -3°C / 27°F

Min Wind Chill: -15°C / 5°F

Sky: Cloudy

Visibility (mi): 4 – 6 in light snow, with periods of 1 – 3 in moderate snow

Wind (kts): NNE 15 – 30

Max Temp: -1°C / 30°F

Min Wind Chill: -11°C / 12°F

Palmer Station Wind Trace

