

NOUS41 KWBC 091554
PNSWSH

Service Change Notice 15-45
National Weather Service Headquarters Washington DC
1155 AM EDT Wed Sep 09 2015

TO: Subscribers:
-Family of Services
-NOAA Weather Wire Service
-Emergency Managers Weather Information Network
-NOAAPORT
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FROM: David Novak
Director, Weather Prediction Center

SUBJECT: Addition of Probabilistic Winter Precipitation
Forecast (PWPF) Grids on the Satellite Broadcast
Network Effective November 16, 2015

Effective Monday, November 16, 2015, at 1800 Coordinated
Universal Time (UTC), the National Centers for Environmental
Prediction's(NCEP) Weather Prediction Center (WPC) will begin
distributing the operational Probabilistic Winter Precipitation
Forecast (PWPF) grids on the Satellite Broadcast Network (SBN).

The PWPF provides a probabilistic forecast of snowfall and
freezing rain over the continental United States in 12-, 24-,
48- and 72-hour increments. The product has been displayed on
the NCEP/WPC webpages since 2012. With this implementation
NCEP/WPC will distribute the PWPF grids on the SBN at 2.5 km
resolution in Gridded Binary 2 (GriB2) format.

The probabilistic winter precipitation forecasts provide
information in two different forms:

1. Probabilities of exceedance, which show the probability that
accumulations of snow or freezing rain will equal or exceed the
given threshold for the given time period.
2. Percentile accumulations, which show the probability of snow
or freezing rain accumulating no more than the depicted amount.

The product headers may be constructed as follows:

T1 T2 A1 A2 ii CCCC

T1 = H

T2 = I

A1 = N

CCCC = KWNH

A2 specifies the following parameters for snow products:

- B - F012
- C - F018
- D - F024
- E - F030
- F - F036
- G - F042
- H - F048
- I - F054
- J - F060
- K - F066
- L - F072

A2 specifies the following parameters for freezing rain products:

- N - F012
- O - F018
- P - F024
- Q - F030
- R - F036
- S - F042
- T - F048
- U - F054
- V - F060
- W - F066
- X - F072

ii specifies the following parameters for snow products:

- 02 - 12-hour snowfall \geq 1 inch threshold
- 03 - 12-hour snowfall \geq 2 inch threshold
- 04 - 12-hour snowfall \geq 4 inch threshold
- 05 - 12-hour snowfall \geq 6 inch threshold
- 06 - 12-hour snowfall \geq 8 inch threshold
- 07 - 12-hour snowfall \geq 12 inch threshold
- 08 - 12-hour snowfall \geq 18 inch threshold
- 11 - 24-hour snowfall \geq 1 inch threshold
- 12 - 24-hour snowfall \geq 2 inch threshold
- 13 - 24-hour snowfall \geq 4 inch threshold
- 14 - 24-hour snowfall \geq 6 inch threshold
- 15 - 24-hour snowfall \geq 8 inch threshold
- 16 - 24-hour snowfall \geq 12 inch threshold
- 17 - 24-hour snowfall \geq 18 inch threshold
- 20 - 48-hour snowfall \geq 2 inch threshold
- 21 - 48-hour snowfall \geq 4 inch threshold
- 22 - 48-hour snowfall \geq 8 inch threshold
- 23 - 48-hour snowfall \geq 12 inch threshold
- 24 - 48-hour snowfall \geq 18 inch threshold
- 25 - 48-hour snowfall \geq 24 inch threshold
- 26 - 48-hour snowfall \geq 30 inch threshold
- 30 - 72-hour snowfall \geq 2 inch threshold
- 31 - 72-hour snowfall \geq 4 inch threshold
- 32 - 72-hour snowfall \geq 8 inch threshold
- 33 - 72-hour snowfall \geq 12 inch threshold

34 - 72-hour snowfall \geq 18 inch threshold
35 - 72-hour snowfall \geq 24 inch threshold
36 - 72-hour snowfall \geq 30 inch threshold

40 - 12-hour 5th percentile snowfall accumulation
41 - 12-hour 10th percentile snowfall accumulation
42 - 12-hour 25th percentile snowfall accumulation
43 - 12-hour 50th percentile snowfall accumulation
44 - 12-hour 75th percentile snowfall accumulation
45 - 12-hour 90th percentile snowfall accumulation
46 - 12-hour 95th percentile snowfall accumulation

50 - 24-hour 5th percentile snowfall accumulation
51 - 24-hour 10th percentile snowfall accumulation
52 - 24-hour 25th percentile snowfall accumulation
53 - 24-hour 50th percentile snowfall accumulation
54 - 24-hour 75th percentile snowfall accumulation
55 - 24-hour 90th percentile snowfall accumulation
56 - 24-hour 95th percentile snowfall accumulation

60 - 48-hour 5th percentile snowfall accumulation
61 - 48-hour 10th percentile snowfall accumulation
62 - 48-hour 25th percentile snowfall accumulation
63 - 48-hour 50th percentile snowfall accumulation
64 - 48-hour 75th percentile snowfall accumulation
65 - 48-hour 90th percentile snowfall accumulation
66 - 48-hour 95th percentile snowfall accumulation

70 - 72-hour 5th percentile snowfall accumulation
71 - 72-hour 10th percentile snowfall accumulation
72 - 72-hour 25th percentile snowfall accumulation
73 - 72-hour 50th percentile snowfall accumulation
74 - 72-hour 75th percentile snowfall accumulation
75 - 72-hour 90th percentile snowfall accumulation
76 - 72-hour 95th percentile snowfall accumulation

ii specifies the following parameters for freezing rain products:

01 - 12-hour freezing rain \geq 0.01 inch threshold
02 - 12-hour freezing rain \geq 0.10 inch threshold
03 - 12-hour freezing rain \geq 0.25 inch threshold
04 - 12-hour freezing rain \geq 0.50 inch threshold
05 - 12-hour freezing rain \geq 1 inch threshold
10 - 24-hour freezing rain \geq 0.01 inch threshold
11 - 24-hour freezing rain \geq 0.10 inch threshold
12 - 24-hour freezing rain \geq 0.25 inch threshold
13 - 24-hour freezing rain \geq 0.50 inch threshold
14 - 24-hour freezing rain \geq 1 inch threshold
20 - 48-hour freezing rain \geq 0.10 inch threshold
21 - 48-hour freezing rain \geq 0.25 inch threshold
22 - 48-hour freezing rain \geq 0.50 inch threshold
23 - 48-hour freezing rain \geq 1 inch threshold
30 - 72-hour freezing rain \geq 0.10 inch threshold
31 - 72-hour freezing rain \geq 0.25 inch threshold

32 - 72-hour freezing rain \geq 0.50 inch threshold

33 - 72-hour freezing rain \geq 1 inch threshold

40 - 12-hour 5th percentile freezing rain accumulation

41 - 12-hour 10th percentile freezing rain accumulation

42 - 12-hour 25th percentile freezing rain accumulation

43 - 12-hour 50th percentile freezing rain accumulation

44 - 12-hour 75th percentile freezing rain accumulation

45 - 12-hour 90th percentile freezing rain accumulation

46 - 12-hour 95th percentile freezing rain accumulation

50 - 24-hour 5th percentile freezing rain accumulation

51 - 24-hour 10th percentile freezing rain accumulation

52 - 24-hour 25th percentile freezing rain accumulation

53 - 24-hour 50th percentile freezing rain accumulation

54 - 24-hour 75th percentile freezing rain accumulation

55 - 24-hour 90th percentile freezing rain accumulation

56 - 24-hour 95th percentile freezing rain accumulation

60 - 48-hour 5th percentile freezing rain accumulation

61 - 48-hour 10th percentile freezing rain accumulation

62 - 48-hour 25th percentile freezing rain accumulation

63 - 48-hour 50th percentile freezing rain accumulation

64 - 48-hour 75th percentile freezing rain accumulation

65 - 48-hour 90th percentile freezing rain accumulation

66 - 48-hour 95th percentile freezing rain accumulation

70 - 72-hour 5th percentile freezing rain accumulation

71 - 72-hour 10th percentile freezing rain accumulation

72 - 72-hour 25th percentile freezing rain accumulation

73 - 72-hour 50th percentile freezing rain accumulation

74 - 72-hour 75th percentile freezing rain accumulation

75 - 72-hour 90th percentile freezing rain accumulation

76 - 72-hour 95th percentile freezing rain accumulation

Table 1: Sample products headers

| Product | WMO Header |
|-----------------------------------|-------------|
| 12h snow \geq 2 in at F18 | HINC03 KWNH |
| 24h 50th pcnt snow at F48 | HINH53 KWNH |
| 48h fr rain \geq 0.25 in at F60 | HINV21 KWNH |
| 72h 90th pcnt fr rain | HINX75 KWNH |

These products are available online at:

http://www.wpc.ncep.noaa.gov/pwpc/wwd_accum_probs.php

For more information, please contact

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National Service Change Notices are online at:

<http://www.weather.gov/os/notif.htm>

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