

**NATIONAL WEATHER SERVICE
PRODUCT/SERVICE DESCRIPTION DOCUMENT (SDD)**

TYPE: *Experimental Product*

DATE: *July 22, 2004*

ENHANCED WINTER WEATHER GUIDANCE PRODUCT SUITE

Part 1 – Mission Connection

1. **Service Description:** The Hydrometeorological Prediction Center (HPC) proposes to produce probability guidance for three specific snow/sleet accumulation thresholds per forecast day out to Day 3. HPC will also generate separate probability graphics for the exceedance of freezing rain. In addition a single graphic will depict both HPC forecast position of significant surface low pressure centers over the contiguous U.S. and conveyance of uncertainty of the forecast position. This will be depicted in 12 hour increments out to Day 3.
2. **Purpose/Intended Use:** The purpose of these graphics is to convey a sense of uncertainty with significant winter weather events. It is envisioned the products will be used in conjunction with the NDFD to provide both deterministic and probabilistic attributes of significant winter weather events. The probabilistic and deterministic combination provides users a wider spectrum of information to base their decisions.
3. **Audience:** The general public will be the audience for this product suite.
4. **Presentation Format:** Examples of the product suite are found at <http://www.hpc.ncep.noaa.gov/wwd/wwd.html>
5. **Feedback Method:** Feedback from users can be provided to HPC through the above listed web site.

Part 2 – Technical

1. **Format and Science Basis:** The format of this product suite will be in line with the nominal operational product suite of HPC. Redbook graphics will be transmitted over the AWIPS SBN and images in “gif” format will be posted to HPC's web site.
2. **Availability:** The products will be transmitted twice per day no later than 0930 UTC and 2130 UTC. These times are driven by two factors - available model guidance to produce the products and optimum availability for the media.

3. **Additional Information:** The following table provides a list of new products and corresponding identifiers. Examples of the product suite are found at <http://www.hpc.ncep.noaa.gov/wwd/wwd.html>

<u>Product Description</u>	<u>Product Identifier</u>
DAY 1 PROBABILITY 4"+ SNOW	PSBB04 KWNH
DAY 1 PROBABILITY 8"+ SNOW	PSBB08 KWNH
DAY 1 PROBABILITY 12"+ SNOW	PSBB12 KWNH
DAY 1 PROBABILITY .25"+ ICE	PSBB25 KWNH
DAY 2 PROBABILITY 4"+ SNOW	PSBC04 KWNH
DAY 2 PROBABILITY 8"+ SNOW	PSBC08 KWNH
DAY 2 PROBABILITY 12"+ SNOW	PSBC12 KWNH
DAY 2 PROBABILITY .25"+ ICE	PSBC25 KWNH
DAY 3 PROBABILITY 4"+ SNOW	PSBD04 KWNH
DAY 3 PROBABILITY 8"+ SNOW	PSBD08 KWNH
DAY 3 PROBABILITY 12"+ SNOW	PSBD12 KWNH
DAY 3 PROBABILITY .25"+ ICE	PSBD25 KWNH
72 HOUR LOW TRACKS GRAPHIC	PSA072 KWNH