

NOUS41 KWBC 311850 AAA  
PNSWSH

Service Change Notice 18-111 Updated  
National Weather Service Headquarters Silver Spring MD  
150 PM EST Thu Jan 31 2019

To:           Subscribers:  
              -NOAA Weather Wire Service  
              -Emergency Managers Weather Information Network  
              -NOAAPort  
              Other NWS Partners and Employees

From:         Dave Myrick  
              NWS Office of Science and Technology Integration

Subject: Updated: Upgrade In-Flight Icing Forecast Icing Product:  
Effective February 19, 2019

Updated to be effective Tuesday, February 19, 2019.

Effective Tuesday, February 19, 2019, beginning with the 1200 Coordinated Universal Time (UTC) cycle, the National Centers for Environmental Prediction (NCEP) will begin operationally producing In-Flight Icing (IFI) Forecast Icing Products. The IFI products will replace the Forecast Icing Product (FIP) suite currently being produced at the Aviation Weather Center (AWC).

The IFI is produced hourly from the 13-km Weather Research and Forecasting Rapid Refresh (RAP) model runs. Output includes a 1-, 2-, 3-, 6-, 9-, 12-, 15- and 18-hour forecast for In-flight Icing Probability (ICPRB), Icing Severity (ICSEV), and Supercooled Large Droplet Potential (SLD).

This data is provided over the Satellite Broadcast Network (SBN) and NOAAPort.

The World Meteorological Organization (WMO) heading for the ICPRB products are as follows:

T1:         DATA FORMAT OF GRIB2 /Y/  
T2:         PARAMETER CODE OF /A/  
A1:         GRID CODE /W/  
A2:         FORECAST TIME /ONE OF BCDGJMPS/  
            \*B     = 01 HOUR FORECAST  
            \*C     = 02 HOUR FORECAST  
            \*D     = 03 HOUR FORECAST  
            \*G     = 06 HOUR FORECAST  
            \*J     = 09 HOUR FORECAST  
            \*M     = 12 HOUR FORECAST  
            \*P     = 15 HOUR FORECAST  
            \*S     = 18 HOUR FORECAST

II:         LAYER OR LEVEL /ONE OF 30 32-34 36 38 39 41 43 45 46 48 50 53 55  
57 60 62 65 67 70 73 75 78 81 84 85 90 93 95/

CCCC: KKCI

The WMO heading for the ICSEV products are as follows:

T1: DATA FORMAT OF GRIB2 /Y/  
T2: PARAMETER CODE OF /L/  
A1: GRID CODE /X/  
A2: FORECAST TIME /ONE OF BCDGJMPS/  
\*B = 01 HOUR FORECAST  
\*C = 02 HOUR FORECAST  
\*D = 03 HOUR FORECAST  
\*G = 06 HOUR FORECAST  
\*J = 09 HOUR FORECAST  
\*M = 12 HOUR FORECAST  
\*P = 15 HOUR FORECAST  
\*S = 18 HOUR FORECAST  
II: LAYER OR LEVEL /ONE OF 30 32-34 36 38 39 41 43 45 46 48 50 53 55  
57 60 62 65 67 70 73 75 78 81 84 85 90 93 95/  
CCCC: KKCI

The WMO heading for the SLD products are as follows:

T1: DATA FORMAT OF GRIB2 /Y/  
T2: PARAMETER CODE OF /A/  
A1: GRID CODE /X/  
A2: FORECAST TIME /ONE OF BCDGJMPS/  
\*B = 01 HOUR FORECAST  
\*C = 02 HOUR FORECAST  
\*D = 03 HOUR FORECAST  
\*G = 06 HOUR FORECAST  
\*J = 09 HOUR FORECAST  
\*M = 12 HOUR FORECAST  
\*P = 15 HOUR FORECAST  
\*S = 18 HOUR FORECAST  
II: LAYER OR LEVEL /ONE OF 30 32-34 36 38 39 41 43 45 46 48 50 53 55  
57 60 62 65 67 70 73 75 78 81 84 85 90 93 95/  
CCCC: KKCI

Data will be available in GRIB2 on the NWS Gateway service via:

<ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.fipgb/PT.grid DF.gr1>

<https://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.fipgb/PT.grid DF.gr1>

A preview version of the data will be available on para National Operational Model Archive and Distribution System (NOMADS) here:

<https://para.nomads.ncep.noaa.gov/pub/data/nccf/noaaport/>

Changes will also be applied to the Aviation Digital Data Service (ADDS) to continue the product availability:

<https://www.aviationweather.gov/icing/>

If you have any questions regarding the new In-Flight Icing product, please contact either:

Dr. Brian Pettegrew  
Research Meteorologist  
Aviation Weather Center  
816-584-7256  
[brian.p.pettegrew@noaa.gov](mailto:brian.p.pettegrew@noaa.gov)

or

Dr. Joshua Scheck  
Aviation Support Branch Chief  
Aviation Weather Center  
816-584-7204  
[joshua.scheck@noaa.gov](mailto:joshua.scheck@noaa.gov)

If you have questions regarding the data flow aspects, please contact:

NCEP/NCO Dataflow Team  
College Park, MD  
301-683-0567  
[ncep.list.pmb-dataflow@noaa.gov](mailto:ncep.list.pmb-dataflow@noaa.gov)

National Service Change Notices are online at:

<https://www.weather.gov/notification/archive>

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