

NOUS41 KWBC 011753
PNSWSH

Technical Implementation Notice 14-34
National Weather Service Headquarters Washington DC
153 PM EDT Fri Aug 1 2014

To: Subscribers:
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 NOAA Weather Wire Service
 Emergency Managers Weather Information Network
 NOAAPort
 Other NWS partners and employees

From: Cynthia Abelman Chief, Aviation Services Branch

SUBJECT: Changes to Current Icing Product (CIP) and Forecast
 Icing Product (FIP) effective September 2, 2014

Note The following changes have no impact on NOAA Weather
 Wire Service subscribers

Effective 1500 UTC September 2, 2014, The National Weather
Service (NWS) Aviation Weather Center (AWC) in Kansas City
Missouri will implement changes to the Current Icing Product
(CIP) and the Forecast Icing Product (FIP). The CIP produces a
0-hour analysis and FIP produces a 1, 2, 3, 6, 9 and 12-hour
forecast for icing severity, probability, and supercooled liquid
drops (SLD) every hour. These changes include:

1. Resolution of the grid spacing will increase from 20km to 13km
2. Forecast data files will now be produced in the GRIB2 format.
3. The CIP and FIP will be produced automatically from the 13 km
Weather Research and Forecasting Rapid Refresh (RAP)
model runs.

The WMO headings for the FIP are as follows:

WMO	FLIGHT
HEADING	LEVEL
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Y[AW,AX,LX]*30 KKCI	FL300
Y[AW,AX,LX]*32 KKCI	FL290
Y[AW,AX,LX]*33 KKCI	FL280
Y[AW,AX,LX]*34 KKCI	FL270
Y[AW,AX,LX]*36 KKCI	FL260
Y[AW,AX,LX]*38 KKCI	FL250
Y[AW,AX,LX]*39 KKCI	FL240
Y[AW,AX,LX]*41 KKCI	FL230
Y[AW,AX,LX]*43 KKCI	FL220
Y[AW,AX,LX]*45 KKCI	FL210
Y[AW,AX,LX]*46 KKCI	FL200

Y[AW,AX,LX]*48 KKCI	FL190
Y[AW,AX,LX]*50 KKCI	FL180
Y[AW,AX,LX]*53 KKCI	FL170
Y[AW,AX,LX]*55 KKCI	FL160
Y[AW,AX,LX]*57 KKCI	FL150
Y[AW,AX,LX]*60 KKCI	FL140
Y[AW,AX,LX]*62 KKCI	FL130
Y[AW,AX,LX]*65 KKCI	FL120
Y[AW,AX,LX]*67 KKCI	FL110
Y[AW,AX,LX]*70 KKCI	FL100
Y[AW,AX,LX]*73 KKCI	FL090
Y[AW,AX,LX]*75 KKCI	FL080
Y[AW,AX,LX]*78 KKCI	FL070
Y[AW,AX,LX]*81 KKCI	FL060
Y[AW,AX,LX]*84 KKCI	FL050
Y[AW,AX,LX]*85 KKCI	FL040
Y[AW,AX,LX]*90 KKCI	FL030
Y[AW,AX,LX]*95 KKCI	FL020
Y[AW,AX,LX]*93 KKCI	FL010

WHERE AW = FIP PROBABILITY

AX = FIP SLD

LX = FIP Severity

* = B = 01 HOUR FORECAST

* = C = 02 HOUR FORECAST

* = D = 03 HOUR FORECAST

* = G = 06 HOUR FORECAST

* = J = 09 HOUR FORECAST

* = M = 12 HOUR FORECAST

THE WMO headings for the CIP are as follows:

WMO HEADING	FLIGHT LEVEL
Y[I,J,L]XA30 KKCI	FL300
Y[I,J,L]XA32 KKCI	FL290
Y[I,J,L]XA33 KKCI	FL280
Y[I,J,L]XA34 KKCI	FL270
Y[I,J,L]XA36 KKCI	FL260
Y[I,J,L]XA38 KKCI	FL250
Y[I,J,L]XA39 KKCI	FL240
Y[I,J,L]XA41 KKCI	FL230
Y[I,J,L]XA43 KKCI	FL220
Y[I,J,L]XA45 KKCI	FL210
Y[I,J,L]XA46 KKCI	FL200
Y[I,J,L]XA48 KKCI	FL190
Y[I,J,L]XA50 KKCI	FL180
Y[I,J,L]XA53 KKCI	FL170
Y[I,J,L]XA55 KKCI	FL160
Y[I,J,L]XA57 KKCI	FL150
Y[I,J,L]XA60 KKCI	FL140
Y[I,J,L]XA62 KKCI	FL130
Y[I,J,L]XA65 KKCI	FL120

Y[I,J,L]XA67 KKCI FL110
Y[I,J,L]XA70 KKCI FL100
Y[I,J,L]XA73 KKCI FL090
Y[I,J,L]XA75 KKCI FL080
Y[I,J,L]XA78 KKCI FL070
Y[I,J,L]XA81 KKCI FL060
Y[I,J,L]XA84 KKCI FL050
Y[I,J,L]XA85 KKCI FL040
Y[I,J,L]XA90 KKCI FL030
Y[I,J,L]XA95 KKCI FL020
Y[I,J,L]XA93 KKCI FL010

WHERE I = CIP PROBABILITY

J = CIP SLD

L = CIP Severity

On September 01 2014, Forecast Icing Product output in Gridded Binary (GRIB2) Format will be available through:

NWS FTP servers at

<ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avsp/DS.fipgb>

Family of Services high resolution data service and server access service and Satellite Broadcast Network NOAAPORT Channel

Changes will also be applied to the Aviation Digital Data Service

<http://www.aviationweather.gov/adds>

If you have any questions regarding the new Current Icing Product or Forecast Icing Product contact:

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NWS Technical Implementation Notices are online at:

<http://www.nws.noaa.gov/om/notif.htm>

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