

NOUS41 KWBC 171328
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-46
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
930 AM EDT FRI JUNE 17 2006

TO: NATIONAL WEATHER SERVICE /NWS/ OFFICES
FEDERAL AVIATION ADMINISTRATION /FAA/
FAMILY OF SERVICES /FOS/ SUBSCRIBERS
OTHER CUSTOMERS OF NWS AVIATION FORECASTS

FROM: KEVIN L. JOHNSTON
CHIEF...AVIATION SERVICES BRANCH

SUBJECT: NEW CURRENT ICING POTENTIAL PRODUCTS: EFFECTIVE
SEPTEMBER 06 2005

NOTE: THE FOLLOWING CHANGES HAVE NO IMPACT ON NOAA WEATHER
WIRE SERVICE SUBSCRIBERS

EFFECTIVE SEPTEMBER 06 2005 AT 1300 COORDINATED UNIVERSAL TIME
/UTC/... THE NWS AVIATION WEATHER CENTER /AWC/ IN KANSAS CITY...
MISSOURI WILL IMPLEMENT THE NEW CURRENT ICING POTENTIAL /CIP/
PRODUCT.

THE CIP HAS BEEN AVAILABLE AS AN OPERATIONAL NWS PRODUCT SINCE
MARCH 2002. THE CIP IS AN AUTOMATICALLY PRODUCED DIAGNOSTIC INDEX
OF TOTAL ICING POTENTIAL AND SUPERCOOLED LIQUID DROPLET /SLD/
POTENTIAL. IT IS PRODUCED HOURLY OVER A DOMAIN SPANNING THE
CONTIGUOUS 48 UNITED STATES AND ADJACENT COASTAL WATERS ... IN
ONE THOUSAND FOOT INCREMENTS BETWEEN 1000 AND 30000 FEET ABOVE
MEAN SEA LEVEL. THE CIP OUTPUT FORMAT IS GRIDDED BINARY /GRIB/.

SUMMARY OF CHANGES:

NEW DATA INPUTS:

1. 20 KM RUC PRESSURE AND HYBRID-B GRIDS INSTEAD OF 40 KM
PRESSURE GRIDS
2. RUC EXPLICIT CLOUD AND RAIN WATER MIXING RATIO FIELDS
3. NATIONAL LIGHTNING NETWORK DATA

PHYSICAL CONCEPT APPLICATIONS:

1. INCLUSION OF SLD ICING IN AREAS OF DEEP CONVECTION
2. ADDITION OF VERTICAL VELOCITY AND SUPERCOOLED LIQUID
INTEREST MAPS

NEW DATA OUTPUT:

1. IN ADDITION TO THE 40 KM GRIB FILES THE NEW CIP IS
AVAILABLE IN 20 KM HORIZONTAL RESOLUTION GRIB FILES.

MORE INFORMATION ABOUT THE CIP PRODUCT CAN BE ACCESSED AT /USE LOWER CASES LETTERS/:

[HTTP://ADDS.AVIATIONWEATHER.GOV/ICING/DESCRIPTION.PHP](http://adds.aviationweather.gov/icing/description.php)

THE CURRENT CIP PRODUCT DESCRIPTION DOCUMENT IS AVAILABLE AT /USE LOWER CASES LETTERS/:

[HTTP://PRODUCTS.WEATHER.GOV/](http://products.weather.gov/)

THE WMO COMMUNICATION HEADERS AFFECTED BY THE ANNOUNCEMENT ARE FOUND IN THE FOLLOWING TABLES.

TABLE 1: CIP 20 KM WMO HEADERS (NEW):

FLIGHT LEVEL	TOTAL ICING WMO HEADER	SLD ICING WMO HEADER
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010	YIXA93 KKCI	YJXA93 KKCI
020	YIXA95 KKCI	YJXA95 KKCI
030	YIXA90 KKCI	YJXA90 KKCI
040	YIXA84 KKCI	YJXA84 KKCI
050	YIXA85 KKCI	YJXA85 KKCI
060	YIXA81 KKCI	YJXA81 KKCI
070	YIXA78 KKCI	YJXA78 KKCI
080	YIXA75 KKCI	YJXA75 KKCI
090	YIXA73 KKCI	YJXA73 KKCI
100	YIXA70 KKCI	YJXA70 KKCI
110	YIXA67 KKCI	YJXA67 KKCI
120	YIXA65 KKCI	YJXA65 KKCI
130	YIXA62 KKCI	YJXA62 KKCI
140	YIXA60 KKCI	YJXA60 KKCI
150	YIXA57 KKCI	YJXA57 KKCI
160	YIXA55 KKCI	YJXA55 KKCI
170	YIXA53 KKCI	YJXA53 KKCI
180	YIXA50 KKCI	YJXA50 KKCI
190	YIXA48 KKCI	YJXA48 KKCI
200	YIXA46 KKCI	YJXA46 KKCI
210	YIXA45 KKCI	YJXA45 KKCI
220	YIXA43 KKCI	YJXA43 KKCI
230	YIXA41 KKCI	YJXA41 KKCI
240	YIXA39 KKCI	YJXA39 KKCI
250	YIXA38 KKCI	YJXA38 KKCI
260	YIXA36 KKCI	YJXA36 KKCI
270	YIXA34 KKCI	YJXA34 KKCI
280	YIXA33 KKCI	YJXA33 KKCI
290	YIXA32 KKCI	YJXA32 KKCI
300	YIXA30 KKCI	YJXA30 KKCI

TABLE 2: CIP 40 KM WMO HEADERS (EXISTING):

FLIGHT TOTAL ICING SLD ICING
LEVEL WMO HEADER WMO HEADER

010 YAWA93 KKCI YAXA93 KKCI
020 YAWA95 KKCI YAXA95 KKCI
030 YAWA90 KKCI YAXA90 KKCI
040 YAWA84 KKCI YAXA84 KKCI
050 YAWA85 KKCI YAXA85 KKCI
060 YAWA81 KKCI YAXA81 KKCI
070 YAWA78 KKCI YAXA78 KKCI
080 YAWA75 KKCI YAXA75 KKCI
090 YAWA73 KKCI YAXA73 KKCI
100 YAWA70 KKCI YAXA70 KKCI
110 YAWA67 KKCI YAXA67 KKCI
120 YAWA65 KKCI YAXA65 KKCI
130 YAWA62 KKCI YAXA62 KKCI
140 YAWA60 KKCI YAXA60 KKCI
150 YAWA57 KKCI YAXA57 KKCI
160 YAWA55 KKCI YAXA55 KKCI
170 YAWA53 KKCI YAXA53 KKCI
180 YAWA50 KKCI YAXA50 KKCI
190 YAWA48 KKCI YAXA48 KKCI
200 YAWA46 KKCI YAXA46 KKCI
210 YAWA45 KKCI YAXA45 KKCI
220 YAWA43 KKCI YAXA43 KKCI
230 YAWA41 KKCI YAXA41 KKCI
240 YAWA39 KKCI YAXA39 KKCI
250 YAWA38 KKCI YAXA38 KKCI
260 YAWA36 KKCI YAXA36 KKCI
270 YAWA34 KKCI YAXA34 KKCI
280 YAWA33 KKCI YAXA33 KKCI
290 YAWA32 KKCI YAXA32 KKCI
300 YAWA30 KKCI YAXA30 KKCI

ON SEPTEMBER 06 2005 THE NEW CIP PRODUCTS WILL BE AVAILABLE IN
GRIB FORMAT THROUGH:

1. THE SATELLITE BROADCAST NETWORK /SBN/ NOAAPORT CHANNEL
2. NATIONAL WEATHER SERVICE FTP SERVERS AT /USE LOWER CASES
EXCEPT AS NOTED/:

FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/DC.AVSPT/DS_CIPGB

NOTE: SL DC AND DS MUST BE UPPER CASE.

3. THE FAMILY OF SERVICES /FOS/ HIGH RESOLUTION DATA SERVICE AND
SERVER ACCESS SERVICE.

ADDITIONAL INFORMATION ON NWS AVIATION PRODUCT DISSEMINATION IS
AVAILABLE AT /USE LOWER CASES LETTERS/...

<http://www.weather.gov/OM/DISEMSYS.SHTML>

IF YOU HAVE ANY QUESTIONS REGARDING THIS PRODUCT...CONTACT:

CLINTON WALLACE
CHIEF, AVIATION SUPPORT BRANCH
AVIATION WEATHER CENTER
7220 NW 101ST TERRACE ROOM 101
KANSAS CITY MO 64153
PHONE: 816-584-7248
E-MAIL: CLINTON.WALLACE@NOAA.GOV

THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE
ONLINE AT /USE LOWER CASE LETTERS/...

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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