

NOUS41 KWBC 141711  
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 04-24  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
110 PM EDT MON JUN 14 2004

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

FROM: MARK ANDREWS  
CHIEF...AVIATION SERVICES BRANCH

SUBJECT: MODIFICATION OF CURRENT ICING POTENTIAL AND FORECAST  
ICING POTENTIAL PRODUCTS...EFFECTIVE JULY 13 2004

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

EFFECTIVE JULY 13 2004 AT 1300 COORDINATED UNIVERSAL TIME  
/UTC/...THE NATIONAL WEATHER SERVICE /NWS/ AVIATION WEATHER  
CENTER /AWC/ IN KANSAS CITY. . .MISSOURI WILL IMPLEMENT UPDATED  
INTEREST MAPS TO THE CURRENT ICING POTENTIAL /CIP/ AND THE  
FORECAST ICING POTENTIAL /FIP/ PRODUCTS.

THE CIP DOMAIN COVERS THE CONTIGUOUS 48 UNITED STATES AND  
ADJACENT COASTAL WATERS IN ONE THOUSAND FOOT INCREMENTS BETWEEN  
ONE THOUSAND AND THIRTY THOUSAND FEET ABOVE MEAN SEA LEVEL. THE  
CIP IS A DIAGNOSTIC ICING PRODUCT WHICH DEPICTS THE TOTAL ICING  
POTENTIAL AND SUPERCOOLED LIQUID DROPLETS /SLD/. THE CIP IS  
PRODUCED AUTOMATICALLY USING SATELLITE...RADAR....SURFACE...  
PIREP...AND 40 KM RAPID UPDATE CYCLE /RUC/ MODEL AS INGEST.

THE CIP HAS BEEN AVAILABLE AS AN OPERATIONAL PRODUCT SINCE MARCH  
2002.

THE FIP DOMAIN COVERS THE CONTIGUOUS 48 UNITED STATES AND  
ADJACENT COASTAL WATERS IN ONE THOUSAND FOOT INCREMENTS BETWEEN  
ONE THOUSAND AND THIRTY THOUSAND FEET ABOVE MEAN SEA LEVEL. THE  
FIP IS A FORECAST EXTENSION OF THE CURRENT ICING POTENTIAL /CIP/  
PRODUCT AND PREDICTS THE TOTAL ICING POTENTIAL OUT TO 12 HOURS.  
FORECAST HOURS INCLUDE H+01...H+02...H+03...H+06...H+09 AND H+12.  
THE FIP IS PRODUCED AUTOMATICALLY FROM THE 20 KM RAPID UPDATE  
CYCLE /RUC/ MODEL RUNS.

THE FIP HAS BEEN AVAILABLE AS AN OPERATIONAL PRODUCT SINCE  
JANUARY 2004.

THE RELATIVE HUMIDITY AND TEMPERATURE MEMBERSHIP FUNCTIONS IN THE  
OPERATIONAL CIP AND FIP WILL BE UPDATED.

THE RELATIVE HUMIDITY MEMBERSHIP FUNCTION WILL DECREASE ICING VOLUMES AND AREAS FOR THE HIGHEST THRESHOLDS...BUT WILL BE ONLY SLIGHTLY LOWER FOR THE VERY LOWEST THRESHOLD.

THE TEMPERATURE MEMBERSHIP FUNCTION WILL MAKE THE CIP AND FIP MORE ROBUST...DECREASING THE WARNED AIRSPACE IN CLASSICAL FREEZING RAIN SITUATIONS.

MORE INFORMATION ABOUT THE CIP AND FIP PRODUCTS CAN BE OBTAINED AT /USE LOWER CASES LETTERS/:

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

THE CURRENT PRODUCT DESCRIPTION DOCUMENTS FOR THE CIP AND FIP ARE AVAILABLE AT /USE LOWER CASES LETTERS/:

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

TABLE 1: CIP TOTAL ICING HEADERS:

FLIGHT LEVEL	CIP TOTAL ICING WMO HEADING(S)
010	YAWA93 KKCI
020	YAWA95 KKCI
030	YAWA90 KKCI
040	YAWA84 KKCI
050	YAWA85 KKCI
060	YAWA81 KKCI
070	YAWA78 KKCI
080	YAWA75 KKCI
090	YAWA73 KKCI
100	YAWA70 KKCI
110	YAWA67 KKCI
120	YAWA65 KKCI
130	YAWA62 KKCI
140	YAWA60 KKCI
150	YAWA57 KKCI
160	YAWA55 KKCI
170	YAWA53 KKCI
180	YAWA50 KKCI
190	YAWA48 KKCI
200	YAWA46 KKCI
210	YAWA45 KKCI
220	YAWA43 KKCI
230	YAWA41 KKCI
240	YAWA39 KKCI
250	YAWA38 KKCI
260	YAWA36 KKCI
270	YAWA34 KKCI
280	YAWA33 KKCI
290	YAWA32 KKCI
300	YAWA30 KKCI

TABLE 2: CIP SUPERCOOLED LIQUID DROPLET /SLD/ HEADERS:

FLIGHT LEVEL	CIP SLD WMO HEADING(S)
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010	YAXA93 KKCI
020	YAXA95 KKCI
030	YAXA90 KKCI
040	YAXA84 KKCI
050	YAXA85 KKCI
060	YAXA81 KKCI
070	YAXA78 KKCI
080	YAXA75 KKCI
090	YAXA73 KKCI
100	YAXA70 KKCI
110	YAXA67 KKCI
120	YAXA65 KKCI
130	YAXA62 KKCI
140	YAXA60 KKCI
150	YAXA57 KKCI
160	YAXA55 KKCI
170	YAXA53 KKCI
180	YAXA50 KKCI
190	YAXA48 KKCI
200	YAXA46 KKCI
210	YAXA45 KKCI
220	YAXA43 KKCI
230	YAXA41 KKCI
240	YAXA39 KKCI
250	YAXA38 KKCI
260	YAXA36 KKCI
270	YAXA34 KKCI
280	YAXA33 KKCI
290	YAXA32 KKCI
300	YAXA30 KKCI

TABLE 3: FIP TOTAL ICING HEADERS:

FLIGHT LEVEL	FIP TOTAL ICING WMO HEADING(S)
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010	YAW*93 KKCI
020	YAW*95 KKCI
030	YAW*90 KKCI
040	YAW*84 KKCI
050	YAW*85 KKCI
060	YAW*81 KKCI
070	YAW*78 KKCI
080	YAW*75 KKCI
090	YAW*73 KKCI
100	YAW*70 KKCI
110	YAW*67 KKCI
120	YAW*65 KKCI
130	YAW*62 KKCI

140 YAW\*60 KKCI  
150 YAW\*57 KKCI  
160 YAW\*55 KKCI  
170 YAW\*53 KKCI  
180 YAW\*50 KKCI  
190 YAW\*48 KKCI  
200 YAW\*46 KKCI  
210 YAW\*45 KKCI  
220 YAW\*43 KKCI  
230 YAW\*41 KKCI  
240 YAW\*39 KKCI  
250 YAW\*38 KKCI  
260 YAW\*36 KKCI  
270 YAW\*34 KKCI  
280 YAW\*33 KKCI  
291 YAW\*32 KKCI  
300 YAW\*30 KKCI

WHERE \* = B = 01 HOUR FORECAST

\* = C = 02 HOUR FORECAST

\* = D = 03 HOUR FORECAST

\* = G = 06 HOUR FORECAST

\* = J = 09 HOUR FORECAST

\* = M = 12 HOUR FORECAST

ON JULY 13 2004 THE CIP AND FIP PRODUCTS WILL CONTINUE TO BE AVAILABLE IN GRIB FORMAT THROUGH:

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

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

NOTE: THE SL AND DC IN THE ABOVE INTERNET ADDRESS MUST BE IN CAPITAL LETTERS.

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 THESE PRODUCTS...CONTACT:

CLINTON WALLACE  
CHIEF, AVIATION SUPPORT BRANCH - AVIATION WEATHER CENTER  
7220 NW 101ST TERRACE  
ROOM 101

KANSAS CITY MO 64153  
PHONE: 816-584-72048  
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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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