

NOUS41 KWBC 141710
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 04-25
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
110 PM EDT MON JUN 14 2004

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

FROM: MARK ANDREWS
CHIEF...AVIATION SERVICES BRANCH

SUBJECT: MODIFICATION OF GRAPHICAL TURBULENCE GUIDANCE PRODUCT: EFFECTIVE
AUGUST 25 2004

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

EFFECTIVE AUGUST 25 2004 AT 1300 COORDINATED UNIVERSAL TIME /UTC/...THE
NATIONAL WEATHER SERVICE /NWS/ AVIATION WEATHER CENTER /AWC/ IN KANSAS
CITY MISSOURI WILL INTRODUCE A COMPOSITE GRIDDED BINARY /GRIB/ PRODUCT AND
DATA PRECISION ENHANCEMENT TO THE GRAPHICAL TURBULENCE GUIDANCE /GTG/
PRODUCT.

THE GTG IS AN AUTOMATICALLY GENERATED TURBULENCE PRODUCT THAT PREDICTS THE
LOCATION AND INTENSITY OF TURBULENCE OVER THE CONTINENTAL UNITED STATES
/CONUS/. THE GTG PRODUCES AN ANALYSIS GRIB OUTPUT EVERY HOUR AND FORECAST
HOURS H+03...H+06...H+09 AND H+12 EVERY THREE HOURS.

A COMPOSITE GRIB FILE FOR THE GTG WILL BECOME AVAILABLE ON AUGUST 25 2004.
THE COMPOSITE DATA WILL CONSIST OF THE MAXIMUM TURBULENCE VALUES AT EACH
GRID COLUMN BETWEEN 20000 AND 45000 FEET.

THE DATA PRECISION ENHANCEMENT WILL INCREASE THE PRECISION OF THE GTG GRIB
OUTPUT FROM ONE DECIMAL PLACE TO THREE DECIMAL PLACES.

THE GTG HAS BEEN AVAILABLE AS AN OPERATIONAL PRODUCT SINCE MARCH 2003.

MORE INFORMATION ABOUT THE GTG PRODUCT CAN BE OBTAINED AT /USE LOWER
CASE/:

[HTTP://AVIATIONWEATHER.GOV/EXP/GTG/INFO.SHTML](http://AVIATIONWEATHER.GOV/EXP/GTG/INFO.SHTML)

THE CURRENT PRODUCT DESCRIPTION DOCUMENT FOR THE GTG IS AVAILABLE AT /USE
LOWER CASE/:

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

TABLE 1: GTG HEADERS:

FLIGHT LEVEL	GTG WMO HEADING(S)
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200	YVW*46 KKCI
210	YVW*45 KKCI
220	YVW*43 KKCI
230	YVW*41 KKCI
240	YVW*39 KKCI
250	YVW*38 KKCI
260	YVW*36 KKCI
270	YVW*34 KKCI
280	YVW*33 KKCI
290	YVW*32 KKCI
300	YVW*30 KKCI
310	YVW*29 KKCI
320	YVW*27 KKCI
330	YVW*26 KKCI
340	YVW*25 KKCI
350	YVW*24 KKCI
360	YVW*23 KKCI
370	YVW*22 KKCI
380	YVW*21 KKCI
390	YVW*20 KKCI
400	YVW*19 KKCI
410	YVW*18 KKCI
420	YVW*17 KKCI
430	YVW*16 KKCI
440	YVW*15 KKCI
450	YVW*14 KKCI

WHERE :

- * = A = 00-HOUR ANALYSIS
- * = D = 03-HOUR FORECAST
- * = G = 06-HOUR FORECAST
- * = J = 09-HOUR FORECAST
- * = M = 12 HOUR FORECAST

TABLE 2: GTG COMPOSITE HEADERS:

GTG COMPOSITE TIME	WMO HEADING(S)
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00-HOUR ANALYSIS	ZVWA50 KKCI
03-HOUR FORECAST	ZVWD50 KKCI
06-HOUR FORECAST	ZVWG50 KKCI
09-HOUR FORECAST	ZVWJ50 KKCI
12-HOUR FORECAST	ZVWM50 KKCI

ON AUGUST 25 2004...THE GTG PRODUCT WILL CONTINUE TO BE AVAILABLE IN GRIB
FORMAT THROUGH:

- THE SATELLITE BROADCAST NETWORK /SBN/ NOAAPORT CHANNEL.
- NATIONAL WEATHER SERVICE FILE TRANSFER PROTOCOL /FTP/ SERVERS AT /USE
LOWER CASE EXCEPT FOR SL AND DC/:

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

- 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 CASE/:

<HTTP://WWW.WEATHER.GOV/OS/DISEMSYS.SHTML>

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

CLINTON WALLACE
CHIEF...AVIATION SUPPORT BRANCH
AVIATION WEATHER CENTER
KANSAS CITY MISSOURI
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NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

<HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE>

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