

NOUS41 KWBC 141712
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/
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 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 LETTERS/:

[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 LETTERS/:

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:

TIME	GTG COMPOSITE WMO HEADING(S)
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00 HOUR	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:

1. THE SATELLITE BROADCAST NETWORK /SBN/ NOAAPORT CHANNEL

2. NATIONAL WEATHER SERVICE FTP SERVERS AT /USE LOWER CASE 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 CASE LETTERS/:

<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
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>

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