

NOUS41 KWBC 291258
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 06-59
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
900 AM EDT TUE AUG 29 2006

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

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

SUBJECT: ENHANCEMENT OF GRAPHICAL TURBULENCE GUIDANCE /GTG/:
EFFECTIVE JANUARY 8 2007

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

EFFECTIVE JANUARY 8 2007 AT 1300 COORDINATED UNIVERSAL TIME
/UTC/ THE NWS AVIATION WEATHER CENTER /AWC/ IN KANSAS CITY
MISSOURI WILL IMPLEMENT AN ENHANCED VERSION OF THE GRAPHICAL
TURBULENCE GUIDANCE /GTG/ PRODUCT. THIS ENHANCEMENT EXTENDS THE
VERTICAL DOMAIN OF THE GTG INTO THE MIDDLE LEVEL OF THE
ATMOSPHERE ... BETWEEN 10 AND 19 THOUSAND FEET ABOVE MEAN SEA
LEVEL /FLIGHT LEVELS 100 TO 190/. TABLE 1 CONTAINS THE
COMMUNICATION HEADINGS FOR EACH FLIGHT LEVEL /FL/.

THE GTG IS AN AUTOMATICALLY GENERATED TURBULENCE PRODUCT THAT
DIAGNOSES AND PREDICTS THE LOCATION AND INTENSITY OF TURBULENCE
OVER THE CONTERMINOUS UNITED STATES AND ADJACENT COASTAL WATERS
/CONUS/. THE GTG HAS BEEN AVAILABLE AS AN NWS OPERATIONAL
PRODUCT SINCE MARCH 2003.

THE GTG PRODUCES AN ANALYSIS... 1... 2 AND 3-HOUR TURBULENCE
FORECAST EVERY HOUR AND A 6... 9 AND 12-HOUR FORECAST EVERY 3
HOURS IN GRIB FORMAT. THIS PRODUCT ALSO PROVIDES A COMPOSITE
FIELD REPRESENTING THE MAXIMUM TURBULENCE VALUE BETWEEN 10 AND
45 THOUSAND FEET FOR EACH ANALYSIS AND FORECAST.

FOR MORE INFORMATION ABOUT THE GTG PRODUCT, GO TO /USE LOWER
CASE LETTERS/:

[HTTP://ADDS.AVIATIONWEATHER.NOAA.GOV/TURBULENCE/](http://adds.aviationweather.noaa.gov/turbulence/)

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

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

TABLE 1: NEW GTG HEADERS:

FL HEADING

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100 YVW*70 KKCI
110 YVW*67 KKCI
120 YVW*65 KKCI
130 YVW*62 KKCI
140 YVW*60 KKCI
150 YVW*57 KKCI
160 YVW*55 KKCI
170 YVW*53 KKCI
180 YVW*50 KKCI
190 YVW*48 KKCI

WHERE * = A = 00 HOUR ANALYSIS

* = 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 GTG PRODUCT WILL CONTINUE TO BE AVAILABLE IN GRIB FORMAT FROM THE FOLLOWING SYSTEMS:

1. SATELLITE BROADCAST NETWORK /SBN/ NOAAPORT CHANNEL
2. NWS FTP SERVERS AT /USE LOWER CASE LETTERS EXCEPT SL AND DC MUST BE IN UPPER CASE/:

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

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://WEATHER.GOV/OS/DISEMSYS.SHTML

IF YOU HAVE 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
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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