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TECHNICAL IMPLEMENTATION NOTICE 06-59...CORRECTED  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
1235 PM EDT THU AUG 31 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: CORRECTED: ENHANCEMENT OF GRAPHICAL TURBULENCE  
GUIDANCE /GTG/: EFFECTIVE JANUARY 8 2007

REFER TO: TECHNICAL IMPLEMENTATION NOTICE /TIN/ 06-59  
TRANSMITTED ON AUGUST 29 2006

CORRECTED TO ADD COMPOSITE HEADINGS TO TABLE 1 AND TO CORRECT URL  
FOR MORE INFORMATION ON GTG PRODUCT.

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/DESCRIPTION.PHP](http://adds.aviationweather.noaa.gov/turbulence/description.php)

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
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
COMPOSITE	ZVW*50 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](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](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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