

NOUS41 KWBC 132000

PNSWSH

Technical Implementation Notice 12-13

National Weather Service Headquarters Washington DC

400 PM EDT Tue Mar 13 2012

To: Subscribers:

-Family of Services

-NOAA Weather Wire Service

-Emergency Managers Weather Information Network

-NOAAPORT

Other NWS partners and NWS employees

From: Richard J. Vogt

Director, WSR-88D Radar Operations Center

Subject: More Frequent Products from Select FAA Terminal Doppler

Weather Radars During Hazardous Weather Effective

April 12, 2012

Effective April 12, 2012, at approximately 1500 Coordinated

Universal Time (UTC), the NWS will begin more frequent

dissemination of radar products generated by the NWS

Supplemental Product Generator (SPG) from select FAA Terminal

Doppler Weather Radars (TDWR) during hazardous weather. These

products will be provided via the NWS Radar Product Central Data

Collection Dissemination Service (RPCCDS) and NOAAPort.

When certain thresholds of precipitation are met, the TDWR goes

into hazardous weather mode, also known as Volume Coverage

Pattern 80 (VCP 80). While the TDWR is in hazardous weather mode,

the short-range lowest elevation scan is repeated every minute.

In addition, most of the other short-range elevation scans and

volume products are repeated every 3 minutes.

Beginning April 12, 2012, the lowest elevation scan reflectivity

and velocity products (Table 2) and other short-range products

(Table 3) will be provided on the RPCCDS and NOAAPort every

minute and every 3 minutes, respectively, from the 11 TDWRs

listed in Table 1 below. Since the products (Table 2 and 3) are

just more frequent issuances of currently available products, no

new WMO Headers, AWIPS IDs or FTP directories are needed.

Table 1: Participating TDWR Sites

Associated WFO TDWR ID TDWR FAA SITE NAME

KFWD TDAL DALLAS LOVE FIELD (DAL)

KFWD TDFW DALLAS/FT. WORTH (DFW)

KGSP TCLT CHARLOTTE (CLT)

KILN TCMH COLUMBUS OH (CMH)

KILN TCVG COVINGTON (CVG)

KILN TDAY DAYTON (DAY)

KLOT TMDW CHICAGO MIDWAY (MDW)

KLOT TORD CHICAGO O'HARE (ORD)

KMKX TMKE MILWAUKEE (MKE)

KOKX TEWR NEWARK (EWR)

KOKX TJFK NEW YORK CITY (JFK)

Table 2: Two Example TDWR Products That Will be Repeated Every

Minute in Hazardous Weather Mode (VCP 80)

WMO Header AWIPS ID Product ID Product Name

SDUS55 KFWD TR0DAL 181 REFLECTIVITY (Z) - BASE

ELEVATION

SDUS55 KFWD TV0DAL 182 VELOCITY (V) - BASE

ELEVATION

Table 3: Nine Example Products That Will be Repeated Every 3

Minutes in Hazardous Weather Mode (VCP 80)

WMO Header AWIPS ID Product ID Product Name

SDUS25 KFWD TR2DAL 181 REFLECTIVITY (Z) - THIRD

ELEVATION

SDUS75 KFWD TV2DAL 182 VELOCITY (V) - THIRD

ELEVATION

SDUS55 KFWD NCRDAL 37 COMPOSITE REFLECTIVITY

(CZ)

SDUS75 KFWD NETDAL 41 ECHO TOPS (ET)
SDUS55 KFWD NVLDAL 57 VERTICALLY INTEGRATED
LIQUID (VIL)
SDUS35 KFWD NSTDAL 58 STORM TRACKING
INFORMATION (STI)
SDUS65 KFWD NHIDAL 59 HAIL INDEX (HI)
SDUS65 KFWD NTVDAL 61 TORNADIC VORTEX
SIGNATURE (TVS)
SDUS35 KFWD NMDDAL 141 MESOCYCLONE (MD)

The three letter associated WFO ID and the last three letters of the TDWR ID will take the place of "FWD" in the WMO Header and "DAL" in the AWIPS ID, respectively, for actual products as needed.

Currently, the communications throughput for a single site ranges from 4 to 17 kilo-bits per second (kbps). This change will increase that by a factor of 2.5, which would raise the maximum loading to 42 kbps.

As with other centrally collected TDWR products, the additional products will be archived at the National Climatic Data Center (NCDC). The inventory of the archived products will be contained along with other TDWR products under the NEXRAD Level III tab at:

<http://hurricane.ncdc.noaa.gov/pls/plhas/has.dsselect>

More information about how the NWS generates products from FAA's TDWR data can be found at:

<http://www.roc.noaa.gov/spg/>

If you have any questions about the technical content or generation of these products, please contact:

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If you have questions about the NOAAPort activation of these products, please contact:

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National Technical Implementation Notices are online at:

<http://www.weather.gov/os/notif.htm>

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