

NOUS41 KWBC 151245
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-06
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
745 AM EST FRI JAN 15 2010

TO: SUBSCRIBERS:
-FAMILY OF SERVICES
-NOAA WEATHER WIRE SERVICE
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK
-NOAAPORT
OTHER NWS PARTNERS...AND NWS EMPLOYEES

FROM: KEVIN SCHRAB
CHIEF...OBSERVING SERVICES DIVISION
OFFICE OF CLIMATE...WATER AND WEATHER SERVICES

SUBJECT: SECOND QUARTER 2010 SCHEDULE DATES FOR TERMINATION OF
RADIOTHEODOLITE TRACKING /ART/ AND RADIO DIRECTION FINDING RADIOSONDES
/RDF/ WITH INSTALLATION OF RADIOSONDE REPLACEMENT SYSTEMS /RRS/

TWO UPPER AIR /UA/ SITES ARE SCHEDULED TO RECEIVE RRS UPGRADES IN THE
SECOND QUARTER OF 2010. THE NEXT ART/RDF TECHNICAL IMPLEMENTATION NOTICE
/TIN/ WILL BE ISSUED IN MARCH 2010.

SID	STATION NAME	OUTAGE DATE
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78526	SAN JUAN PR	FEBRUARY 19 2010
72201	KEY WEST FL	MARCH 12 2010

EACH UPPER AIR SITE WILL BE OUT OF SERVICE FOR ABOUT 10 DAYS. WHEN NWS UA
OBSERVATIONS RESUME...THE RRS WILL BE GATHERING METEOROLOGICAL DATA FROM
GLOBAL POSITIONING SYSTEM /GPS/ RADIOSONDES.

THE NWS DESCRIBES THE RRS RELEASE POINT LOCATION WITH THE NATIONAL
GEODETIC SURVEY /NGS/ OPUS SOLUTION. THIS IS A DATUM COMBINATION THAT
RELIES ON NORTH AMERICAN DATUM OF 1983 /NAD83/ FOR LATITUDE AND LONGITUDE
WHEREAS THE RELEASE POINT ELEVATION IS BASED ON NORTH AMERICAN VERTICAL
DATUM 1988 /NAVD88/ WITH THE GEOID03 MODEL. BY CONTRAST...THE GPS
RADIOSONDE FLIGHT INFORMATION OF LATITUDE AND LONGITUDE AND ALTITUDE WILL
RELY ON THE WORLD GEODETIC SYSTEM 1984 /WGS84/ STANDARD.

BE ADVISED PARTS OF THE UPPER AIR CODED MESSAGES WILL BE SIGNIFICANTLY
LONGER WITH RRS CONVERSION. NWS HAS COORDINATED WITH ITS PARTNERS ON THE
LONGER LENGTH OF THESE MESSAGES.

THE FORMAT OF THE MESSAGES WILL BE THE SAME WORLD METEOROLOGICAL
ORGANIZATION /WMO/ FORMAT FOR CODED UPPER AIR MESSAGES USED WITH THE
MICROART LEGACY SYSTEM. THE NUMBER OF LEVELS IN THE CODED MESSAGES WILL
BE TWO TO THREE TIMES GREATER FOR THE TTBB AND TTDD. AS A RESULT...TWO
CATEGORIES OF ADVANCED WEATHER INTERACTIVE PROCESSING SYSTEM /AWIPS/ TEXT
PRODUCTS WILL INCREASE IN SIZE: SGL AND ABV. THE NUMBER OF LEVELS IN THE
TTAA...TTCC...PPBB AND PPDD PARTS WILL BE RELATIVELY UNCHANGED. THESE

CHANGES REFLECT UPDATED CODING PRACTICES AND HIGHER RESOLUTION LEVEL SELECTION CRITERIA. THE MAXIMUM SIZE LIMITS OF THE PARTS OF THE CODED MESSAGES ARE AS FOLLOWS:

TTAA: 15 LEVELS
TTCC: 10 LEVELS
TTBB: 135 LEVELS
TTDD: 40 LEVELS
PPBB: 40 LEVELS
PPDD: 40 LEVELS

IN ADDITION...THE 31313 MESSAGE INDICATOR ASSOCIATED WITH VARIOUS PARTS OF THE MESSAGE WILL BE INCLUDED WITH EACH PART OF THE THERMODYNAMIC MESSAGE PARTS.

FOR ADDITIONAL INFORMATION ON THE MESSAGE REQUIREMENTS...REFERENCE WMO 306: MANUAL ON CODES: INTERNATIONAL CODES: VOLUME 1.1 PART A-ALPHANUMERIC CODES AND WMO 306: MANUAL ON CODES: REGIONAL CODES AND NATIONAL CODING PRACTICES: VOLUME II. USERS CAN FIND INFORMATION ON THE LEVELS SELECTION CRITERIA USED IN NWS CODING SOFTWARE ONLINE AT /USE LOWER CASE/:

[HTTP://WWW.UA.NWS.NOAA.GOV](http://www.ua.nws.noaa.gov)

IF YOU HAVE QUESTIONS OR FEEDBACK...PLEASE CONTACT:

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NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://www.weather.gov/notification/archive)

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