NOUS41 KWBC 151247
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.

| SID | STATION NAME | OUTAGE DATES |
|---|---|---|
| 78526 | SAN JUAN PR | 19 FEB 2010 |
| 72201 | KEY WEST FL | 12 MAR 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 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 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 LOWERCASE LETTERS/:

HTTP://WWW.UA.NWS.NOAA.GOV

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

IVAN NAVARRO
NATIONAL WEATHER SERVICE / OPS11
1325 EAST WEST HIGHWAY
SILVER SPRING MARYLAND 20910
301-713-1843 EXT. 134
IVAN.NAVARRO@NOAA.GOV

NWS NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWERCASE/:

HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM

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