

NOUS41 KWBC 191645
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-24
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1245 PM EDT WED MAY 19 2010

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

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

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

FOUR UPPER AIR /UA/ SITES ARE SCHEDULED TO RECEIVE RRS UPGRADES IN THE
FOURTH QUARTER OF 2010. IF AN ADDITIONAL SITE IS ADDED...WE WILL ISSUE A
TECHNICAL IMPLEMENTATION NOTICE /TIN/ 30 DAYS IN ADVANCE OF THE OUTAGE:

SID	STATION NAME	OUTAGE DATE
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91285	HILO HAWAII	JULY 2 2010
91165	LIHUE HAWAII	JULY 16 2010
70219	BETHEL ALASKA	AUGUST 13 2010
70308	ST. PAUL ISLAND ALASKA	AUGUST 27 2010

THESE UA SITES MAY BE OUT OF SERVICE FOR AS LONG AS 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/ ONLINE POSITIONING USER SERVICE /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 GLOBAL POSITIONING SYSTEM /GPS/ RADIOSONDE FLIGHT
INFORMATION OF LATITUDE AND LONGITUDE AND ALTITUDE WILL RELY ON THE WORLD
GEODETIC SYSTEM 1984 /WGS84/ STANDARD.

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:

IVAN NAVARRO
NATIONAL WEATHER SERVICE
SILVER SPRING MARYLAND
301-713-1841 EXT. 123
IVAN.NAVARRO@NOAA.GOV

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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