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...AND NWS 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 DATES
91285	HILO	HAWAII	2 JUL 2010
91165	LIHUE	HAWAII	16 JUL 2010
70219	BETHEL	ALASKA	13 AUG 2010
70308	ST PAUL ISLAND	ALASKA	27 AUG 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/ 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.

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:

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

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

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