

NOUS41 KWBC 111741
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-14
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1240 PM EST THU MAR 11 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: THIRD QUARTER 2010 DATES FOR TERMINATION OF
RADIOTHEODOLITE TRACKING /ART/ AND RADIO DIRECTION
FINDING RADIOSONDES /RDF/ INCLUDING TERMINATION OF
LORAN BASED RADIOSONDES AND TRACKING AT ALBANY
WITH INSTALLATION OF RADIOSONDE REPLACEMENT
SYSTEMS /RRS/

THE ALBANY UPPER AIR /UA/ SITE WAS ADDED TO THE RRS
SCHEDULE. THEREFORE THE TOTAL NUMBER OF UA SITES TO
UPGRADE IN THIRD QUARTER IS FOUR. OUR NEXT TECHNICAL
IMPLEMENTATION NOTICE /TIN/ WILL BE ISSUED IN MAY.

SID	STATION NAME	OUTAGE DATES
72518	ALBANY NY	12 APR 2010
72293	SAN DIEGO CA	23 APR 2010
72776	GREAT FALLS MT	14 MAY 2010
72451	DODGE CITY KS	11 JUN 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.

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/:

[HTTP://WWW.UA.NWS.NOAA.GOV](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 LOWER CASE/:

[HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM](http://WWW.WEATHER.GOV/OS/NOTIF.HTM)

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