

NOUS41 KWBC 111740
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...USERS 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 NY 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 2010.

SID	STATION NAME	OUTAGE DATE
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72518	ALBANY NY	APRIL 12 2010
72293	SAN DIEGO CA	APRIL 23 2010
72776	GREAT FALLS MT	MAY 14 2010
72451	DODGE CITY KS	JUNE 11 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/ 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.

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:

IVAN NAVARRO
NATIONAL WEATHER SERVICE
SILVER SPRING MARYLAND
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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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