

NOUS41 KWBC 091340
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-81
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
940 AM EDT THU OCT 9 2008

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: FIRST QUARTER FISCAL YEAR 2009 IMPLEMENTATION OF RADIOSONDE
REPLACEMENT SYSTEM /RRS/ WITH TERMINATION OF OPERATIONS OF RADIOTHEODOLITE
TRACKING /ART/ AND RADIO DIRECTION FINDING RADIOSONDES /RDF/

TWO UPPER AIR /UA/ SITES WILL CONVERT TO RRS TECHNOLOGY IN THIS FIRST
QUARTER OF FISCAL YEAR 2009. GREEN BAY WISCONSIN TERMINATED ART AND RDF
RADIOSONDES ON OCTOBER 6 2008 AND DENVER COLORADO WILL TERMINATE ART AND
RDF RADIOSONDES ON OCTOBER 20 2008:

SID	STATION NAME	OUTAGE DATE
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72645	GREEN BAY WI	OCTOBER 6 2008
72469	DENVER CO	OCTOBER 20 2008

NWS UPPER AIR OBSERVATIONS WILL RESUME APPROXIMATELY TEN DAYS LATER WITH
THE USE OF THE RRS WITH GLOBAL POSITIONING SYSTEM /GPS/ RADIOSONDES. EACH
UA SITE WILL BE OUT OF SERVICE FOR ABOUT TEN DAYS. WHEN RESTORED...PARTS
OF THE UPPER AIR CODED MESSAGES WILL BE SIGNIFICANTLY LONGER.

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 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:

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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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