

NOUS41 KWBC 091341
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-81
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
940 AM EDT THU OCT 09 2008

TO: SUBSCRIBERS:
-FAMILY OF SERVICES
-NOAA WEATHER WIRE SERVICE
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK
OTHER NWS PARTNERS...AND NWS 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 6 OCT 2008 AND DENVER COLORADO WILL TERMINATE ART
AND RDF RADIOSONDES ON 20 OCT 2008.

SID	STATION NAME	OUTAGE DATE
72645	GREEN BAY WI	06 OCT 2008
72469	DENVER CO	20 OCT 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 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 LETTERS/:

[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 TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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