

NOUS41 KWBC 101128
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 09-22
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
727 AM EDT FRI JUN 10 2009

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 FY09 SCHEDULE DATES FOR TERMINATION
OF AUTOMATED RADIOTHEODOLITE TRACKING /ART/ AND RADIO
DIRECTION FINDING RADIOSONDES /RDF/ WITH INSTALLATION
OF RADIOSONDE REPLACEMENT SYSTEMS /RRS/

FIVE SITES IN ALASKA ARE SCHEDULED TO RECEIVE RRS UPGRADES IN
FOURTH QUARTER 2009. EXPECT A 10 DAY OUTAGE OF UPPER-AIR
OBSERVATIONS AT EACH SITE BEGINNING ON THE DATES LISTED BELOW.

SID	STATION NAME	OUTAGE DATES
70326	KING SALMON AK	10 JUL 2009
70200	NOME AK	24 JUL 2009
70261	FAIRBANKS AK	07 AUG 2009
70361	YAKUTAT AK	21 AUG 2009
70398	ANNETTE AK	04 SEP 2009

EACH UPPER AIR SITE WILL BE OUT OF SERVICE FOR ABOUT 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 THE GEOCENTRIC INTERNATIONAL
TERRESTRIAL REFERENCE FRAME (ITRF00) FOR LATITUDE AND LONGITUDE.
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/:

[HTTP://WWW.UA.NWS.NOAA.GOV](http://WWW.UA.NWS.NOAA.GOV)

IF YOU HAVE QUESTIONS OR FEEDBACK...PLEASE CONTACT:

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

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