

NOUS41 KWBC 101127
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...USERS AND 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
RADIO THEODOLITE 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 THE 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 DATE
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70326	KING SALMON AK	JULY 10 2009
70200	NOME AK	JULY 24 2009
70261	FAIRBANKS AK	AUGUST 7 2009
70361	YAKUTAT AK	AUGUST 21 2009
70398	ANNETTE AK	SEPTEMBER 4 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/ ONLINE POSITIONING USER SERVICE /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 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:

DOMINIC BOSCO
NATIONAL WEATHER SERVICE
SILVER SPRING MARYLAND
301-713-1841 EXT. 123
DOMINIC.BOSCO@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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