

NOUS41 KWBC 221831  
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 06-10  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
153 PM EST WED FEB 22 2006

TO: FAMILY OF SERVICES /FOS/ SUBSCRIBERS...NOAA WEATHER  
WIRE SERVICE /NWS/ SUBSCRIBERS...EMERGENCY MANAGERS  
WEATHER INFORMATION NETWORK /EMWIN/ SUBSCRIBERS...  
NOAAPORT SUBSCRIBERS...OTHER NATIONAL WEATHER SERVICE  
/NWS/ CUSTOMERS AND PARTNERS...NWS EMPLOYEES

FROM: MIKE CAMPBELL  
CHIEF...OBSERVING SERVICES DIVISION  
OFFICE OF CLIMATE WATER WEATHER SERVICES

SUBJECT: IMPLEMENTATION OF RADIOSONDE REPLACEMENT SYSTEM /RRS/  
OPERATIONS WITH TERMINATION OF AUTOMATED  
RADIO THEODOLITE TRACKING /ART/ AND TERMINATION OF  
RADIO DIRECTION FINDING RADIOSONDES

REFERENCE: TIN05-34 TRANSMITTED MAY 02 2005

THIS SPRING AND SUMMER NWS WILL TERMINATE UPPER AIR OBSERVATIONS  
FROM RADIO DIRECTION FINDING RADIOSONDES AND ART AT THE 12 SITES  
AND ON THE DATES INDICATED BELOW.

SID	STATION NAME	SONDE TYPE	TEAR DOWN DATE
72214	TALLAHASSEE-FL	VSL RS80	06 MARCH 2006
72240	LAKE CHARLES-LA	VSL RS80	20 MARCH 2006
72248	SHREVEPORT-LA	VSL RS80	03 APRIL 2006
72265	MIDLAND-TX	VSL RS80	17 APRIL 2006
72363	AMARILLO-TX	VSL RS80	01 MAY 2006
72786	SPOKANE-WA	SPN B2	15 MAY 2006
72681	BOISE-ID	VSL RS80	29 MAY 2006
72376	FLAGSTAFF-AZ	VSL RS80	02 JUNE 2006
72489	RENO-NV	VSL RS80	26 JUNE 2006
72662	RAPID CITY-SD	VSL RS80	17 JULY 2006
72659	ABERDEEN-SD	VSL RS80	31 JULY 2006
72764	BISMARCK-ND	SPN B2	14 AUGUST 2006

NWS UPPER AIR OBSERVATIONS WILL RESUME APPROXIMATELY TWO WEEKS  
LATER AND USE THE RADIOSONDE REPLACEMENT SYSTEM /RRS/ WITH THE  
GLOBAL POSITIONING SYSTEM /GPS/ RADIOSONDES. EACH OF THESE SITES  
WILL BE OUT OF SERVICE FOR UP TO TWO WEEKS. 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 IN USE 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. 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 AT THE FOLLOWING SITE UNDER THE NWS RADIOSONDE REPLACEMENT SYSTEM /USE LOWERCASE LETTERS/.

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

THE EFFECTIVE DATE OF THIS CHANGE IS SOONER THAN SPECIFIED BY NWS INSTRUCTION 10-1805 BECAUSE THE RRS IMPLEMENTATION PLAN IS DETERMINED IN PART BY CONTRACTUAL OBLIGATIONS. A DELAY OF SCHEDULE WOULD BE COST PROHIBITIVE. BACKGROUND ON UPPER AIR MESSAGE PARTS IS FOUND IN TIN05-34 ISSUED MAY 2 2005. THERE WILL BE NO CHANGE IN MESSAGE FORMAT. NWS IS COORDINATING WITH PARTNERS OVER MESSAGE LENGTH.

IF YOU HAVE QUESTIONS OR FEEDBACK... CONTACT:

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THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE 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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