

NOUS41 KWBC 221853  
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 NWS PARTNERS...USERS AND EMPLOYEES

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

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

REFERENCE: [TECHNICAL IMPLEMENTATION NOTICE /TIN/ 05-34](#)...TRANSMITTED MAY 2  
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
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72214	TALLAHASSEE FL	VSL RS80	MARCH 6 2006
72240	LAKE CHARLES LA	VSL RS80	MARCH 20 2006
72248	SHREVEPORT LA	VSL RS80	APRIL 3 2006
72265	MIDLAND TX	VSL RS80	APRIL 17 2006
72363	AMARILLO TX	VSL RS80	MAY 1 2006
72786	SPOKANE WA	SPN B2	MAY 15 2006
72681	BOISE ID	VSL RS80	MAY 29 2006
72376	FLAGSTAFF AZ	VSL RS80	JUNE 2 2006
72489	RENO NV	VSL RS80	JUNE 26 2006
72662	RAPID CITY SD	VSL RS80	JULY 17 2006
72659	ABERDEEN SD	VSL RS80	JULY 31 2006
72764	BISMARCK ND	SPN B2	AUGUST 14 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 WORLD METEOROLOGICAL ORGANIZATION /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 LOWER CASE/:

[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 [TIN 05-34](#) 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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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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