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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-47  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
355 PM EDT FRI JUN 17 2005

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

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

SUBJECT: TERMINATION OF OPERATION ASSESSMENT TEST /OAT/ RADIOSONDE  
REPLACEMENT SYSTEM /RRS/ AND FLIGHT OF RECORD AT CHANHASSEN MN: EFFECTIVE  
AUGUST 18 2005

EFFECTIVE AUGUST 18 2005...NWS WILL TERMINATE UPPER AIR OBSERVATIONS USING  
THE RADIO DIRECTION FINDING RADIOSONDES AND TRACKING SYSTEM AT CHANHASSEN  
MINNESOTA. UPPER AIR OPERATIONS WILL BE RESTORED USING THE RADIOSONDE  
REPLACEMENT SYSTEM /RRS/ WITH NEW GLOBAL POSITIONING SYTEM /GPS/  
RADIOSONDES. THE CHANHASSEN SITE WILL BE OUT OF SERVICE UP TO TWO WEEKS.  
WHEN RESTORED...SOME PARTS OF THE UPPER AIR CODED MESSAGES WILL BE  
SIGNIFICANTLY LONGER.

THE EFFECTIVE DATE OF THIS CHANGE IS SOONER THAN SPECIFIED BY NWS  
INSTRUCTION 10-1805. [TECHNICAL IMPLEMENTATION NOTICE /TIN/ 05-34](#)...ISSUED  
MAY 2 2005...PROVIDES THE SPECIFICS OF THIS CHANGE. AS A CONSEQUENCE OF  
THE CARIBOU TEST... NWS HAS BEEN COORDINATING WITH PARTNERS OVER THE  
LENGTH OF THESE MESSAGES THAT ARE LARGER THAN ORIGINALLY ANTICIPATED. THE  
FORMAT HAS NOT CHANGED. A DELAY OF SCHEDULE WOULD BE COST PROHIBITIVE.

COMMENCING NO SOONER THAN THE 0000 COORDINATED UNIVERSAL TIME /UTC/ ON OR  
ABOUT AUGUST 30 2005...WITH THE IMPLEMENTATION OF THE RADIOSONDE  
REPLACEMENT SYSTEM AT CHANHASSEN...THERE WILL BE A CHANGE IN THE LENGTH OF  
CODED MESSAGES. THE WORLD METEOROLOGICAL ORGANIZATION /WMO/ NUMBER FOR  
CHANHASSEN IS 72649. 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 FOLLOW:

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 THE 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)

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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