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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 05-48
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 NATIONAL WEATHER SERVICE
/NWS/ CUSTOMERS AND PARTNERS...NWS EMPLOYEES

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

SUBJECT: OPERATION ASSESSMENT TEST /OAT/ RADIOSONDE REPLACEMENT
SYSTEM/RRS/ AND FLIGHT OF RECORD

ON JULY 25 2005... NWS STERLING... VIRGINIA... WILL TERMINATE
UPPER AIR OBSERVATIONS USING THE RADIO DIRECTION FINDING
RADIOSONDES AND TRACKING SYSTEM. THE UPPER AIR OPERATIONS WILL BE
RESTORED USING THE RADIOSONDE REPLACEMENT SYSTEM WITH THE NEW
GLOBAL POSITIONING SYTEM /GPS/ RADIOSONDES. THE SITE WILL BE OUT
OF SERVICE UP TO TWO WEEKS. ONCE 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. CHANGE NOTICE TIN05-34 ISSUED MAY 2 PROVIDES
THE SPECIFIC CODING OF THIS CHANGE. AS A CONSEQUENCE OF THE
CARIBOU TEST... NWS HAS BEEN COORDINATING WITH PARTNERS OVER THE
LENGTH OF THESE MESSAGES. THE FORMAT HAS NOT CHANGED. A DELAY OF
SCHEDULE WOULD BE COST PROHIBITIVE.

STARTING NO SOONER THAN THE 0000 COORDINATED UNIVERSAL TIME /UTC/
ON OR ABOUT AUGUST 1 2005... WITH THE IMPLEMENTATION OF THE
RADIOSONDE REPLACEMENT SYSTEM AT STERLING... THERE WILL BE A
CHANGE IN THE LENGTH OF CODED 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 TDD PARTS. THE NUMBER OF LEVELS IN THE TTAA... TTCC...
PPBB... AND PPDD PARTS WILL BE RELATIVELY UNCHANGED. THESE
CHANGES REFLECT UPDATED CODING PRACTICES AND HIGHTER 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 PLEASE REFERENCE THE 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. 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)

IF YOU HAVE QUESTIONS OR FEEDBACK... CONTACT:

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THIS AND OTHER NWS TECHNICAL IMPLEMENTATION NOTICES ARE AVAILABLE ONLINE 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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