TO:       SUBSCRIBERS:
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          OTHER NWS PARTNERS...AND NWS EMPLOYEES

FROM:     KEVIN SCHRAB
          CHIEF... OBSERVING SERVICES DIVISION
          OFFICE OF CLIMATE WATER AND WEATHER SERVICES

SUBJECT:  FOURTH QUARTER 2010 DATES FOR TERMINATION OF
          RADIOTHEODOLITE TRACKING /ART/ AND RADIO
          DIRECTION FINDING RADIOSONDES /RDF/ WITH
          INSTALLATION OF RADIOSONDE REPLACEMENT
          SYSTEMS /RRS/

FOUR UPPER AIR /UA/ SITES ARE SCHEDULED TO RECEIVE RRS
UPGRADES IN THE FOURTH QUARTER OF 2010. IF AN ADDITIONAL
SITE IS ADDED WE WILL ISSUE A TECHNICAL IMPLEMENTATION
NOTICE /TIN/ 30 DAYS IN ADVANCE OF THE OUTAGE.

<table>
<thead>
<tr>
<th>SID</th>
<th>STATION NAME</th>
<th>OUTAGE DATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>91285</td>
<td>HILO</td>
<td>HAWAII</td>
</tr>
<tr>
<td>91165</td>
<td>LIHUE</td>
<td>HAWAII</td>
</tr>
<tr>
<td>70219</td>
<td>BETHEL</td>
<td>ALASKA</td>
</tr>
<tr>
<td>70308</td>
<td>ST PAUL ISLAND</td>
<td>ALASKA</td>
</tr>
</tbody>
</table>

THESE UA SITES MAY BE OUT OF SERVICE FOR AS LONG AS 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/ OPUS SOLUTION. THIS IS A
DATUM COMBINATION THAT RELIES ON NORTH AMERICAN DATUM OF
1983 /NAD83/ FOR LATITUDE AND
LONGITUDE WHEREAS 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.


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...

HTTP://WWW.UA.NWS.NOAA.GOV

IF YOU HAVE QUESTIONS OR FEEDBACK...PLEASE CONTACT:

IVAN NAVARRO
NATIONAL WEATHER SERVICE / OPS11
1325 EAST WEST HIGHWAY
SILVER SPRING MARYLAND 20910
301-713-1841 EXT. 123
IVAN.NAVARRO@NOAA.GOV

NWS NATIONAL TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWERCASE/:

HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM

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NNNN