

NOUS41 KWBC 051431 CCA
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 10-40 CORRECTED
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1031 AM EDT THU AUG 5 2010

TO: SUBSCRIBERS
- FAMILY OF SERVICES
- NOAA WEATHER WIRE SERVICE
- EMERGENCY MANAGERS WEATHER INFORMATION NETWORK
- SATELLITE BROADCAST NETWORK /SBN NOAA/PORT/
OTHER NWS PARTNERS AND EMPLOYEES

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

SUBJECT: CORRECTED: AUTOMATED SURFACE OBSERVING SYSTEM
/ASOS/ DEPLOYMENT OF THE ALTERSHIELD FOR THE ALL
WEATHER PRECIPITATION ACCUMULATION GAUGE /AWPAG/.

NOTE: THE FOLLOWING CHANGES HAVE NO DIRECT IMPACT ON
NOAA WEATHER WIRE SERVICE SUBSCRIBERS.

THIS CORRECTION IS TO ELIMINATE THE MENTION OF A 6 FOOT
DIAMETER SHIELD BECAUSE OF THE UNCERTAINTY OF THE EXACT
SIZE THAT WILL BE USED FOR THE SMALLER DIAMETER ALTERSHIELD
AND TO CHANGE A CONTACT POINT.

NWS IS DEPLOYING AN IMPROVED ALTERSHIELD/WIND SCREEN FOR
THE ASOS AWPAG. THE ALTERSHIELD HAS BEEN TESTED AND SHOWN
TO IMPROVE PRECIPITATION ACCUMULATION CATCH ACCURACY DURING
WIND DRIVEN SNOW EVENTS.

A COMPARISON STUDY WAS CONDUCTED TO EVALUATE SENSOR
PERFORMANCE CHANGES THAT MIGHT OCCUR DUE TO THE
IMPLEMENTATION OF THE ALTERSHIELD. THE RESULTS OF THE STUDY
SHOWED IMPROVED PRECIPITATION CATCHES DURING WIND DRIVEN
SNOW EVENTS. COMPARISON EVALUATION STUDIES AND THEIR
RESULTS ARE AVAILABLE AT /USE LOWERCASE/:

[HTTP://WWW.WEATHER.GOV/OPS2/SURFACE/ASOSIMPLEMENTATION.HTM](http://www.weather.gov/ops2/surface/asosimplementation.htm)

THE IMPROVED ALTERSHIELD DESIGN CONSISTS OF AN 8 FOOT
DIAMETER WIND SHIELD THAT WILL BE DEPLOYED AT UP TO 316
ASOS EQUIPPED AWPAG LOCATIONS. HOWEVER AT UP TO 16 OTHER
AWPAG LOCATIONS... BECAUSE OF SPACE LIMITATIONS...
A SMALLER DIAMETER SHIELD WILL BE INSTALLED. THE NEW
ALTERSHIELD WILL BE USED TO SUPPORT ASOS OPERATIONS
BEGINNING WITH INSTALLATION. A LIST OF SITES EQUIPPED
WITH THE ALTERSHIELD AND INSTALLATION DATES IS ONLINE
AT /USE LOWERCASE/:

[HTTP://WWW.WEATHER.GOV/OPS2/SURFACE/ASOSIMPLEMENTATION.HTM](http://www.weather.gov/ops2/surface/asosimplementation.htm)

THERE IS NO CHANGE TO THE FORMAT USED TO REPORT THE
PRECIPITATION ACCUMULATION INFORMATION IN ANY OF THE ASOS
PRODUCTS OR MESSAGES.

FOR QUESTIONS ABOUT THIS CHANGE... PLEASE CONTACT:

SERGIO MARSH
SURFACE OBSERVATIONS PROGRAM MANAGER
PHONE: 301-713-1792 X 124
E-MAIL: SERGIO.MARSH@NOAA.GOV

OR

JOHN VOGEL
ASOS PLANNED PRODUCT IMPROVEMENT PROGRAM MANAGER
PHONE: 301-713-3400 X106
E-MAIL: JOHN.E.VOGEL@NOAA.GOV

OR

DAVID MANNARANO
OFFICE OF OPERATIONAL SYSTEMS
PHONE: 301-713-2093 X 103
E-MAIL: DAVID.MANNARANO@NOAA.GOV

NATIOANAL TINS ARE ONLINE AT /USE LOWERCASE/:

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

\$\$
NNNN