

# ASOS Operator Interface Device (OID)

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## ASOS Operator Interface Device (OID)

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- Background –
- Each year there are fewer NWS Staff with the practical skill to access important system information from an ASOS System. The need to accomplish this may be to remotely identify a problem, find system configuration data for metadata or SFC/Aviation inspection checklists, or to download observer edit-logs to verify that proper observing procedures are being followed at an observing location under NWS management.
- Objectives -
- The following training material will cover the OID access procedures needed to carry out mission critical functions in accordance with NWSIs 10-1301 and 10-1305...



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# ASOS OID Access for Operational Purposes

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- Direct or remote access to an ASOS OID can benefit your observational program management in the following ways:
  1. Aviation Station Visits
    - A. Inspection checklist information (slides 10 thru 21)
    - B. Verification of default SPECI and SHEF settings (slides 22 thru 25)
  2. Aviation Station Metadata
    - A. Data for NWS Forms A1 & A3 (slides 26 thru 30)
  3. Station Climate Data
    - A. Daily and Monthly Summary data (slides 31 thru 36)
    - B. Station Normals data (slide 37)
  4. METAR Data Quality Control
    - A. Troubleshoot sensor data (slides 38 thru 44)
    - B. Troubleshoot observer procedures using Edit Log (slide 19)
    - C. Recover disrupted AWPAG precipitation data (slides 45 thru 47)



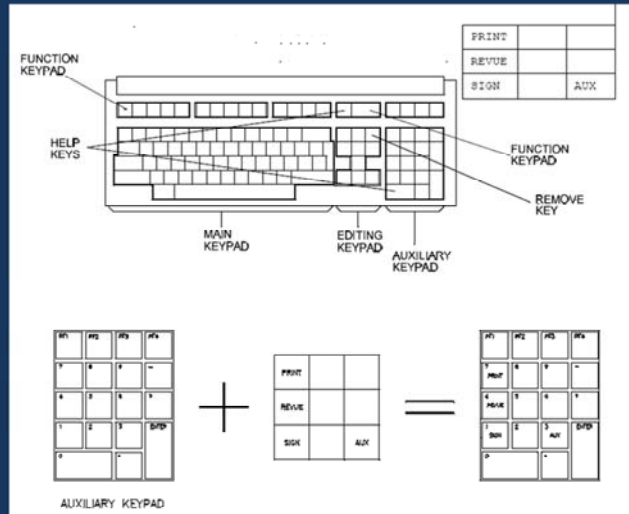
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# ASOS OID Keyboard Layout

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All the screen captures provided in this training material will represent a direct correlation between the ASOS numeric keypad and the corresponding access commands on the OID screen. These representations will also match the correlation between your laptop or office PC keyboard and the remote access screen once you've dialed into an ASOS using ProComm+ software.

The ASOS User's Guide (last issued March 1998) can also be used as a reference.

Your ASOS Electronics Technician, is an excellent resource for On-the-Job-Training (OJT) pertaining to OID functions and remote access.

## ASOS OID Keypad and Display Relationship 5

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Numeric Pad Equates to OID Screen Control Box

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At staffed ASOS locations, up to two OIDs can be provided. The OID consists of a monitor and keyboard and provides interactive access to ASOS data through the Acquisition Control Unit (ACU). A primary OID is located at the designated primary observer location. At airports with air traffic control towers, an OID is also provided which may be designated either the primary or secondary OID, depending upon the primary observer location.

On-site users may “sign-on” to the ASOS OID in any one of four access levels with the proper password. Those four levels are:

- 1) Observer Level
- 2) Air Traffic Control (Tower) Level
- 3) Technician Level
- 4) System Manager Level

OID users in both the Observer Level and the Air Traffic Control Level can be signed on to the ASOS simultaneously, however no two users can be signed on in the Observer Level at the same time.

## ASOS OID Screen via Remote Access 6

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Numeric Pad Equates to Remote Screen Control Box



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Remote OID users and remote interactive computer users may only sign on as:

- 1) Unsigned User
- 2) Technician
- 3) System Manager

It is not possible to remotely sign-on in the Observer Level or ATC Level. This prevents remote editing or augmenting of the ASOS data.



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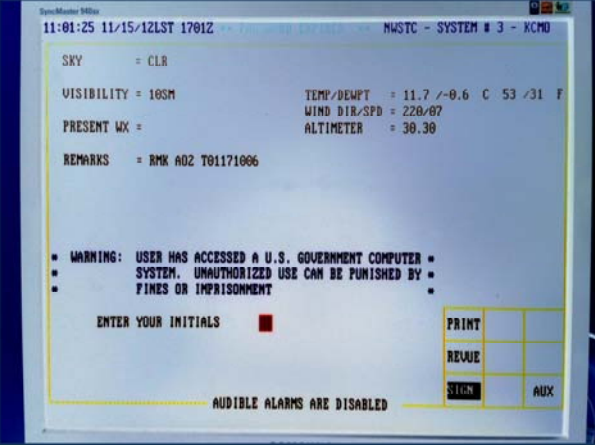
## ASOS OID Login (At Console or Remote)

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In the event that you need to log into an ASOS either in person or remotely, you will find the main screen looks like the picture to the right.

Once you press the "SIGN" key, you will see "Enter Your Initials", do so then hit "Enter"...

\* The primary reason you would need to log-in would be to access the Edit Log.



The screenshot shows the ASOS main screen with the following data:

```

11:01:25 11/15/12LST 1701Z NWSTC - SYSTEM # 3 - KCMO
SKY = CLR
VISIBILITY = 10SM TEMP/DEWPT = 11.7 /-0.6 C 53 /31 F
WIND DIR/SPD = 220/07
PRESENT WX = ALTIMETER = 30.30
REMARKS = RMK A02 T01171006

* WARNING: USER HAS ACCESSED A U.S. GOVERNMENT COMPUTER *
* SYSTEM. UNAUTHORIZED USE CAN BE PUNISHED BY *
* FINES OR IMPRISONMENT *

ENTER YOUR INITIALS [ ] PRINT [ ]
REVIEW [ ]
SIGN [ ] AUX [ ]

AUDIBLE ALARMS ARE DISABLED
  
```

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When performing a station visit in person to a site where observers are required to log into the ASOS to perform their duties, you should not have to log-in to perform your evaluation duties. An observer should always be logged into the ASOS and you can go to the OID and access the information you require. If no one is logged into the ASOS, there is a problem since no one is in control of the observational data. The likely scenario is that no one logged in during shift change and the system has gone past the 9 hour log-in window for the last person and the system has logged that last person out. The only time something like this should happen is if you show up at a part-time station during non-staffed hours.

Using remote access (mainly ProComm dialup), you can dial into the ASOS and view nearly everything you need using the default access "Unsigned User". Again, if you have need to check the Edit Log, then you'll need to log in either as System Manager or ASOS Technician. Check with your Regional ASOS System Mgr or ESA/ASOS Eltech for the necessary passwords.

## ASOS OID Login (At Console or Remote)

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The password you enter will determine what type of access you will be granted.

You can obtain the passwords from your Regional ASOS System Mgr, or ASOS EI-Tech.

\* When you dial-in remotely your access defaults to "Unsigned User", without logging in, which lets you view info only.

The screenshot shows a terminal window with the following content:

```
11:01:49 11/15/12LST 1701Z * * * * * NWSTC - SYSTEM # 3 - KCMO
SKY = CLR
VISIBILITY = 16SM          TEMP/DEWPT = 11.7 /-0.6 C  53 /31 F
PRESENT WX =              WIND DIR/SPD = 220 /07
REMARKS = RMK A02 T01171006  ALTIMETER = 30.30

* * * * *
* WARNING: USER HAS ACCESSED A U.S. GOVERNMENT COMPUTER *
* SYSTEM. UNAUTHORIZED USE CAN BE PUNISHED BY *
* FINES OR IMPRISONMENT *
* * * * *

ENTER YOUR INITIALS  JJ
ENTER YOUR PASSWORD  [REDACTED]
(OPTIONAL) (OR PRESS RETURN TO SIGN OFF)
PASSWORD CASE IND

PRINT  [ ]
REVIEW [ ]
SIGN  [ ]  AUX [ ]

AUDIBLE ALARMS ARE DISABLED
```



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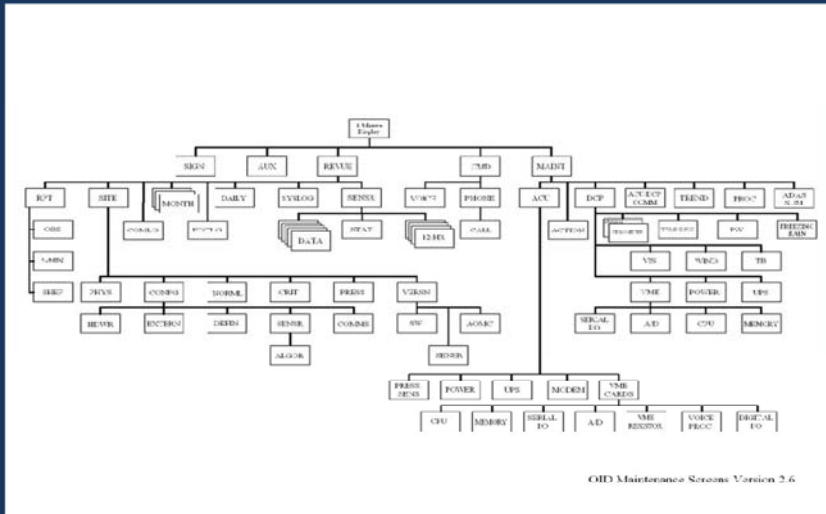




# ASOS OID Video Screen Flowchart

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The ASOS video screen flowchart above depicts the various information that can be accessed and the paths to reach specific information.

This flowchart dates back to ASOS Software version 2.6, the latest version is 3.05. The only significant change missing from this flowchart (for this presentation) is the current means to reach the Edit Log, which is available via the primary, 1 minute screen using LOG -> EDTLG, and only accessible when someone is logged in as Observer, Technician, or System Manager.

# Aviation Inspection Checklist Page 1

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ASOS Backup & Augmentation inspection site checklist entries are associated with "Rating" column "2" in the "non-shaded" blocks.

Page 1 of the checklist is shown to the right. There are no data requirements needed from the ASOS OID on this page...

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL WEATHER SERVICE

### AVIATION & SYNOPSIS OBSERVATION INSPECTION CHECKLIST

Observing Station	<input type="checkbox"/> AMOS <input type="checkbox"/> AWOS <input type="checkbox"/> Manual <input type="checkbox"/> Other <small>Describe Other</small>	
Date of Visit	Service Standard Level <small>(See 2012 ASOS Handbook)</small> <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	
Prepared by	<input type="checkbox"/> NWS <input type="checkbox"/> SAWS <input type="checkbox"/> SAWS-III <input type="checkbox"/> NWS-CMO <input type="checkbox"/> SAWS-IV <input type="checkbox"/> FICWOS <input type="checkbox"/> SAWS-II <input type="checkbox"/> LASWS <input type="checkbox"/> A-Paid <input type="checkbox"/> SF OBS <input type="checkbox"/> A-Voluntary <input type="checkbox"/> S-Paid <input type="checkbox"/> Other <input type="checkbox"/> PWS	
Title		
Supervising Station		

**Instructions:** Use this checklist during the inspection. Make entries and remarks as required or necessary. Use the appropriate column to rate the type of observing program you are inspecting, as identified below. Shaded boxes indicate this item is not normally used in this type of program. "NA" may be annotated when item is Non-Applicable.

**Disposition:** Fill this with the Station Inspection Report, WS Form 10-13.

**Type of Observing Program:** Use the numbered column under "Rating," corresponding to the type of observing program listed below. Completely shaded boxes indicate "NA," but can be used if appropriate to that site.

**Rating:**  
 Rate each item with either a "+", "-", or "NA."  
 "+" can mean excellent, satisfactory, conditionally satisfactory, or yes.  
 "-" can mean unsatisfactory, conditionally unsatisfactory, or no.  
 An element receiving a "-" rating must have an explanation for corrective action to be taken or recommended procedures to follow.

Inspection Guide	1	2	3	4	Remarks Section
<b>I. Arrangement of Facilities</b>					
Location of observing site is adequate. (If no inspection is made)					Remarks Equipment and Apparatus Remarks
Location of ground service vehicles					
Adequate safety devices (adequate lighting, windfall protection, etc.)					
Location of ASOS/DAS					
ASOS/DAS/ASOS/DAS on good condition					



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# Aviation Inspection Checklist Page 2

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ASOS Backup & Augmentation inspection site checklist entries are associated with "Rating" column "2" in the "non-shaded" blocks.

Page 2 of the checklist is shown to the right. There are two items highlighted by a red arrow, the "Surveyed Height of the ASOS Pressure Sensors" and "Pressure Reduction Tables". The next 2 pages show how to access the data...

AVIATION & SYNOPSIS OBSERVATION INSPECTION CHECKLIST (cont'd) page 2 of 2

2	1	3	4	Remarks
<input type="checkbox"/> Automated System <input type="checkbox"/> Manual <input type="checkbox"/> Other				<input type="checkbox"/> ASOS <input type="checkbox"/> AWOS <input type="checkbox"/> ASOS/ AWOS
<input type="checkbox"/> All component connections displayed at or near local A/D, if not, nearest office <input type="checkbox"/> All connections				<input type="checkbox"/> ASOS <input type="checkbox"/> AWOS
<input type="checkbox"/> All components (AWOS only)				<input type="checkbox"/> No <input type="checkbox"/> Yes
<input type="checkbox"/> All components stating the altimeter source is approved for use with approved equipment, approved for operations				For FAA/IC/TCU within 1800 Remarks: _____
<input type="checkbox"/> Date of installation of altimeter (for Class Primary)				
<input type="checkbox"/> Installed within the past 24 months (for Class Primary)				
<input type="checkbox"/> Other pressure altimeters operational (specify in remarks)				<input type="checkbox"/> None <input type="checkbox"/> Other
National compliance inspection in accordance with FAA Order 7100.6, Chapter 5, Section 101. This Class Period of Primary: 3 days (Class Period of Backup of Automated System)				<input type="checkbox"/> Only 2 altimeters <input type="checkbox"/> 3 or more altimeters with ramp access <input type="checkbox"/> Adjacent station
National compliance inspection in accordance with 7500.01-01 (for Class Period of Primary) & the Class Period of Backup of Automated System)				<input type="checkbox"/> Only 2 altimeters <input type="checkbox"/> 3 or more altimeters with ramp access <input type="checkbox"/> Adjacent station
<input type="checkbox"/> Components properly tagged on MIM 10 or FAA Form 700-A				NWS Sites only except OCOLES
<input type="checkbox"/> Component indicators with inspecting official's time-stamp, method of application (if any) Class Period for backup of automated system)				
<input type="checkbox"/> Correct height of pressure sensor on file with NWS				
<input type="checkbox"/> Correct height of instrument posted on or near the instrument				
<input type="checkbox"/> Current barometric values satisfactory				
<input type="checkbox"/> Instruments installed properly (for Class Period)				
<input type="checkbox"/> Condition of instrumentation				
<input type="checkbox"/> Backup available (if any, give period)				
<input type="checkbox"/> Backup Procedures for automated systems clearly understood by operators				



# REVUE -> SITE -> PHYS

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08:39:37 08/07/12LST 1439Z NWSTC - SYSTEM # 3 - KCMU

STATION  
NAME: NWSTC - SYSTEM # 3 - KCMU  
IDENTIFIER: SP8 DATE: 08/07/12 LST  
COMMISSIONED: COMM TIME: 14:39:24 UTC  
ATTENDED: NO UTC TO LST OFFSET: -6  
OPEN 24 HOURS: NO STATION TYPE: A02  
OPENING TIME: 0000 UDU WIND DATA: 1 MIN  
CLOSING TIME: 1600 DSM GENERATED: YES  
ELEVATION: 1030 FEET PRIMARY DSM XMIT TIME: 05:15:00 UTC  
FIELD ELEVATION: 1030 FEET INTERMED DSM XMIT TIMES: 12:15:00 UTC  
PRESSURE SENSOR ELEVATION: 1030 FEET UTC  
UTC

VIS UNITS: ENGLISH MSM GENERATED: YES  
OBS HOURLY REPORT TIME: 50 MSM XMIT TIME: UTC  
OBS EDIT TIME: 5:00 ★ PHYSICAL  
OBS HOURLY TRANSMIT TIME: 55:00 ICE REMARKS: ON  
SHEP HOURLY TRANSMIT TIME: 30

PRINT		
EXIT	BACK	

LATITUDE: 39.28N  
LONGITUDE: 94.66W  
MAG DECLINATION: 3E



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## REVUE -> SITE -> PRESS

13:28:27 10/17/12 EST 19202

PRESSURE REDUCTION RATIO (R)

TEMP	R	TEMP	R	TEMP	R	TEMP	R
-70	1.0111	-65	1.0111	-60	1.0111	-55	1.0111
-69	1.0111	-64	1.0111	-59	1.0111	-54	1.0111
-68	1.0111	-63	1.0111	-58	1.0111	-53	1.0111
-67	1.0111	-62	1.0111	-57	1.0111	-52	1.0111
-66	1.0111	-61	1.0111	-56	1.0111	-51	1.0111


PRESSURE REDUCTION CONSTANT: 0.0000

★ PRESSURE

PRINT	PAGE	
EXIT	BACK	

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Other than going to this screen to acknowledge the “R-Values” for the ASOS and check the box on page 2 of the Inspection Checklist, about the only other time someone would need to look up the R-Values, would be if someone started to question the accuracy of altimeter or sea level pressure data. R-Values were loaded as part of the system initialization, so the only entities who have the authority to change R-Values are the Regional ASOS Manager or the AOMC. All you can do locally at the WFO is verify the values match the initial data, if you have a copy of the original R-Values that came with the site commissioning package.





# REVUE -> SITE -> CFG -> DEFIN

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NWS Observation Networks

SyncMaster 940ax NWSTC - SYSTEM # 3 - KCMO

08:40:19 08/07/12LST 1440Z

DEFINE CONFIGURATION

<b>SENSORS</b>		<b>HARDWARE</b>	
CEILOMETER	CL31	ACU MEMORY	1 MEGABYTE
VISIBILITY	BELFORT ASOS	DCP MEMORY	1 MEGABYTE
TEMP	1088	RS 232 MODEM	UDS
DEWPOINT	DTS1	SYNCH MODEM	UDS
PRESENT WX	LEDWI	ACU/DCP COMM	PHASE I RADIO
WIND	VAISALA 425	RT CLOCK	VIDEO CARD
PRESSURE	SETRA MODEL 470	ACU POWER SUP	ASTEC
FREEZING RAIN	PHASE II	DCP POWER SUP	R.O. ASSOC.
SNOW DEPTH	PHASE II	ACU UPS	SOLA
HAIL	PHASE II	DCP UPS	CPI
SUNSHINE	PHASE II	GTA RADIO	★ MOTOROLA VT-200
PRECIP ACCUM	OTT AWPAG		DEFINE CONFIG
THUNDERSTORM	LLP TSS 924		

PRINT		
EXIT	BACK	

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The following model of sensors are configured with this particular ASOS, which should be noted on the Inspection Checklist, and documented on the station A1/A3 metadata forms:

Temperature Sensor: (1088) Hygrothermometer, which can also provide dew point data.

Dew point Sensor: Dewpoint Temperature System -1, (DTS1)

Wind Sensor: Vaisala 425, aka Ice-Free Wind (IFW)... Otherwise, you will find the BELFORT 2000 listed (Wind Vane/Anemometer)



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## REVUE -> RPT -> 5-MIN ->ARC2H

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08:35:05 08/07/12LST 1435Z NWSFC - SYSTEM # 3 - KCMO

```


08/07/12 08:00:31 5-MIN KSPB 071400Z AUTO 17005KT 10SM CLR 29/13 A2998 980
36 2900 160/05 RMK A02
08/07/12 08:05:31 5-MIN KSPB 071405Z AUTO URB04KT 10SM CLR 29/13 A2998 980
36 2900 URB/04 RMK A02
08/07/12 08:10:31 5-MIN KSPB 071410Z AUTO URB03KT 10SM CLR 30/14 A2998 970
36 2900 URB/03 RMK A02
08/07/12 08:15:31 5-MIN KSPB 071415Z AUTO 00000KT 10SM CLR 31/14 A2999 970
35 3000 000/00 RMK A02
08/07/12 08:20:31 5-MIN KSPB 071420Z AUTO 19003KT 10SM CLR 31/14 A2999 970
35 3000 190/03 RMK A02
08/07/12 08:25:31 5-MIN KSPB 071425Z AUTO 21006KT 10SM CLR 32/13 A2999 970
32 3100 200/06 RMK A02
08/07/12 08:30:31 5-MIN KSPB 071430Z AUTO 21004KT 10SM CLR 31/13 A2999 970
32 3100 210/04 RMK A02

```



★ REVIEW 5 MINUTE

PRINT		PREV
ARC2H	TIME	REV2H
EXIT	BACK	NEXT

ENTER TIME (LST): HMM



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FAA or CWO run ASOS sites are instructed by the 7900.5x (Section 4.9, Pg 24) to call the AOMC to begin 2 hour archive of 5 minute data upon notification of an Aircraft Mishap.

NWS staffed ASOS sites (mainly OCONUS) typically instruct employees how to manually initiate the 2 hour archive of 5 minute data via the OID, in lieu of, or in addition to calling the AOMC for Aircraft Mishaps. Either way is acceptable, as long as the Observer/s on shift during your inspection know how to initiate either procedure, or at the very minimum, know where to find the instructions on what to do. I used to quickly show available FAA staff how to do it manually in the event of a communications failure, as most seemed unaware they could do it on the OID.

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## REVUE -> RPT -> OBS

SyncMaster 990a

08:33:30 08/07/12LST 1433Z NWSTC - SYSTEM # 3 - KCMD

```


08/07/12 02:56:26 METAR KSPB 070056Z AUTO 15004KT 10SM CLR 24/12 A2997 RMK
A02 SLP871 T02390122 56011 F1B1
08/07/12 03:56:26 METAR KSPB 070956Z AUTO 16003KT 10SM CLR 23/12 A2997 RMK
A02 SLP870 T02330122 F1B1
08/07/12 04:56:26 METAR KSPB 071056Z AUTO 17003KT 10SM CLR 23/12 A2997 RMK
A02 SLP872 T02330117 F1B1
08/07/12 05:56:26 METAR KSPB 071156Z AUTO 17003KT 10SM CLR 23/11 A2998 RMK
A02 SLP875 T02330111 10256 20206 53004 F1B1
08/07/12 06:56:26 METAR KSPB 071256Z AUTO URB03KT 10SM CLR 26/13 A2999 RMK
A02 SLP877 T02560128 F1B1
08/07/12 07:56:26 METAR KSPB 071356Z AUTO URB04KT 10SM CLR 29/14 A2998 RMK
A02 SLP876 T02940139 F1B1
08/07/12 08:31:24 JJ LOGGED ON AS OBSERVER FROM OID#1

```



★ REVIEW OBSERVATION

PRINT	DATE	PREV
EXIT	BACK	NEXT

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While most WFO staff will use web-based METAR archived data to look at for QC purposes across their CWA. When an NWSREP is on the road accomplishing data acquisition trips, they may not have the same access to information. While performing an inspection at an ASOS site the NWSREP can use this OID data screen to look at recent METAR and SPECI observations in the event something pertaining to the transmitted data needs to be discussed with the FAA/CWO Station Manager.

During an inspection I always like to check with the Station Manager about their METAR/SPECI QA/QC procedures to see how they access the data since few, if any FAA/CWO sites have printers connected to the ASOS. As long as they can show me that they either use the internet or the OID to verify and check transmitted obs and have a means to notify observers of their errors, then I can assume their station QA/QC program exists. If they can't show me that they use any of these procedures and strictly check their MF1-10C forms when they augment or edit the ASOS data (which, percentage-wise is a small % of the obs taken) I will note this in the inspection report for the FAA's action.

\*Remember, it is not for us (NWS) to tell the FAA/CWOs how to run their programs, only to check that they are doing the required procedures.

**REVUE -> LOG -> EDTLG\*** 19

08:47:38 08/07/12LST 1447Z NWSTC - SYSTEM # 3 - KCMO

```

06/20/12 23:37:22 AUTO SPCL OBS CANCELLED SPECI KSPB 210536Z AUTO
27006615KT 1 3/4SM +RA BR FEW009 BKN041 DUC070 20/19 A2998 RMK A02 P0033
T02000189 $
06/21/12 00:33:22 AUTO SPCL OBS CANCELLED SPECI KSPB 210632Z AUTO 35000KT 2
1/2SM RA BR BKN040 BKN050 DUC070 20/19 A2998 RMK A02 P0010 T02000189 $
06/21/12 02:39:22 AUTO SPCL OBS CANCELLED SPECI KSPB 210838Z AUTO 00000KT
3SM -RA BR SCT007 DUC016 20/19 A2995 RMK A02 P0014 T02000194 $
06/21/12 04:06:22 AUTO SPCL OBS CANCELLED SPECI KSPB 211005Z AUTO URB04KT
1SM -RA BR DUC005 20/19 A3000 RMK A02 CIG 002U009 P0002 T02000189 $
06/21/12 04:47:22 AUTO SPCL OBS CANCELLED SPECI KSPB 211046Z AUTO 00000KT 2
1/2SM BR BKN004 DUC009 19/19 A3002 RMK A02 RAE36 P0004 T01940189 $
07/09/12 09:12:22 AUTO SPCL OBS CANCELLED SPECI KSPB 091511Z AUTO 07005KT
10SM SCT023 DUC031 26/19 A3007 RMK A02 T02560189

```

★ EDIT LOG

\*You can ONLY access the Edit Log when logged into ASOS as an Observer, Technician, or System Manager.

PRINT	DATE	PREU
EXIT	BACK	NEXT

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Another means of METAR/SPECI data QC is to access the ASOS Edit Log. This is particularly useful when someone (Forecaster, FAA/CWO Station Mgr, NWSREP, Regional ASOS Mgr, etc.) have questions as to whether or not an Observer is properly controlling the ASOS output (e.g. unreasonably cancelling ASOS generated SPECIs, not cancelling ASOS generated SPECIs when conditions warrant, editing or not editing ceiling or visibility data as conditions warrant, etc...)

This is the one means (without being present at the time of observation) to see how well an observer controls the ASOS output during times of changing weather, and can give an FAA/CWO Station Manager or Regional OSPM, OPL, NWSREP an indication that a particular observer is or is not following proper observing procedures.

\* Since you cannot remotely log into an ASOS as an Observer most Obs people will check ASOS remotely logged in as an Unsigned User, which provides access to nearly all data, without editing capability. However, if you need to access the Edit Log, you can ask your ASOS Eltech to log-in and their access will allow you to reach this page, since very few people outside of NWSH and the RHs can access an ASOS using the System Manager level.

If corrective action is needed due to your findings in the Edit Log, performing screen captures to get an electronic version of the data via Remote access is one of the easiest ways to document the problem. Again, in dealing with FAA or CWO personnel, the NWS does not have the right to directly take corrective action with the employee. The evidence must be provided to the FAA Station Manager, or Regional Contracting Officer/Contracting Officers Technical Representative for action.







# REVUE -> SITE -> CRIT

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SyncMaster 900ex  
08:41:42 08/07/12LST 1441Z NWSTC - SYSTEM # 3 - KCMO

CRITERIA FOR SPECIAL ALERTS

SKY CONDITION:

CEILING AT OR BELOW	3000	1500	1000	500	FEET	
USER'S CEILING AT OR BELOW	200	400	600	0	0	0
LAYERS BELOW	1000	FEET				
USER'S LAYERS BELOW	0	0	0	0		
VISIBILITY:	3	2	1	MILES		
USER'S VISIBILITY	1/2	3/4	1 1/4			
RVR:	2400	FEET				

CRITERIA

PRINT	PAGE	
EXIT	BACK	



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SPECI Criteria Settings for the ASOS

# SPECI Criteria Settings Verification

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- Within the NWS Learning Center, there is an aviation training module called "Introduction to Categorical Amendment Criteria (CAC)." Part of that training contains a section called "CAC in AvnFPS" and within that contains a module called "Determining CAC for your Airports" <https://www.nws.noaa.gov/mdl/ops/AvnFPS/CAC/DeterminingCAC.pdf>
- The module provides Aviation Forecasters with the ability to read an FAA Terminal Procedures Publication, or what used to be referred to as an Airport "Flip" Chart, to find that airports Landing Minimums.
- As an Aviation Station Inspector checking an ASOS site, it is a *best practice* to verify the SPECI Criteria to make sure the ASOS will initiate a SPECI observation when airport minimum criteria is met. This can be accomplished on-site or remotely if criteria is questioned by a forecaster.
- In the event that you find the criteria does not match the FAA Published Landing Minimums, you should document the discrepancy and forward the information to your WFO Aviation Focal Point and Regional ASOS Systems Manager. Changing SPECI Criteria can only be accomplished with the RASM approval and at the System Manager access level.
- The following slides will show you how to access the SPECI Criteria data.



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SyncMaster 900ex  
08:41:42 08/07/12LST 1441Z NWSTC - SYSTEM # 3 - KCMO

CRITERIA FOR SPECIAL ALERTS

SKY CONDITION:

CEILING AT OR BELOW	3000	1500	1000	500	FEET	
USER'S CEILING AT OR BELOW	200	400	600	0	0	0
LAYERS BELOW	1000	FEET				
USER'S LAYERS BELOW	0	0	0	0		
VISIBILITY:	3	2	1	MILES		
USER'S VISIBILITY	1/2	3/4	1 1/4			
RVR:	2400	FEET				

CRITERIA

PRINT	PAGE	
EXIT	BACK	



SPECI Criteria Settings for the ASOS

NWS Observation Networks

SyncMaster 940ex  
08:41:57 08/07/12LST 1441Z NWSTC - SYSTEM # 3 - KCMO

CRITERIA FOR LOCAL ALERTS

SKY CONDITION:

CEILING AT OR BELOW 10 0 0 0 0 0 FEET

VISIBILITY: MILES

CRITERIA

PRINT	PAGE	
EXIT	BACK	



National Weather Service Training Center



Local SPECI Criteria Settings for the ASOS Page 2

NWS Observation Networks

ymcMaster 940ax  
08:42:08 08/07/12LST 1442Z NWSTC - SYSTEM # 3 - KCMO

CRITERIA FOR SHEF ALERTS

15-MINUTE ONSET THRESHOLD: 0.02 INCHES

15-MINUTE TERMINATION THRESHOLD: 0.01 INCHES

CRITERIA		
PRINT	PAGE	
EXIT	BACK	



National Weather Service Training Center



SHEF Precip. Alert Criteria

# NWS Form A-1, Page 1, Part I

26

NWS Observation Networks

1. LOCATION AND IDENTIFICATION OF STATION																					
Station Name	Agency																				
Station Type	ASOS																				
Location	Location Identifier (LID)																				
<table border="1"> <tr> <td>Lat/Long</td> <td>City/Town/Village</td> <td>County</td> <td>State</td> <td>Country</td> </tr> <tr> <td>(Deg &amp; Min)</td> <td>(Deg &amp; Min)</td> <td>(Deg &amp; Min)</td> <td>(2-Letter Code)</td> <td>(3-Letter Code)</td> </tr> </table>	Lat/Long	City/Town/Village	County	State	Country	(Deg & Min)	(Deg & Min)	(Deg & Min)	(2-Letter Code)	(3-Letter Code)	<table border="1"> <tr> <td>Time to nearest UTC</td> <td>AMT</td> <td>Subtime</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Time to nearest UTC	AMT	Subtime							
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Time to nearest UTC	AMT	Subtime																			
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Date																					
Effective Date Last Revision																					
Effective Date This Revision																					
STATION DESCRIPTION AND INSTRUMENTATION																					



National Weather Service Training Center



NWSH, OS7 issued an Operational Memo dated 12/10/10 on Metadata requirements. Please check with your Regional Observing Program Manager if you do not have the memo or the necessary information to properly fill out the forms and where they should be submitted to...







# REVUE -> SITE -> PHYS

29

NWS Observation Networks

08:39:37 08/07/12LST 1439Z NWSTC - SYSTEM # 3 - KCMU

STATION  
NAME: NWSTC - SYSTEM # 3 - KCMU  
IDENTIFIER: SP8 DATE: 08/07/12 LST  
COMMISSIONED: COMM TIME: 14:39:24 UTC  
ATTENDED: NO UTC TO LST OFFSET: -6  
OPEN 24 HOURS: NO STATION TYPE: A02  
OPENING TIME: 0000 UDU WIND DATA: 1 MIN  
CLOSING TIME: 1600 DSM GENERATED: YES  
ELEVATION: 1030 FEET PRIMARY DSM XMIT TIME: 05:15:00 UTC  
FIELD ELEVATION: 1030 FEET INTERMED DSM XMIT TIMES: 12:15:00 UTC  
PRESSURE SENSOR ELEVATION: 1030 FEET  
UTC  
UTC

VIS UNITS: ENGLISH MSM GENERATED: YES  
OBS HOURLY REPORT TIME: 50 MSM XMIT TIME: UTC  
OBS EDIT TIME: 5:00 ★ PHYSICAL  
OBS HOURLY TRANSMIT TIME: 55:00 ICE REMARKS: ON  
SHEP HOURLY TRANSMIT TIME: 30

PRINT		
EXIT	BACK	

LATITUDE: 39.28N  
LONGITUDE: 94.66W  
MAG DECLINATION: 3E



National Weather Service Training Center



# REVUE -> SITE -> CFG -> DEFIN

30

NWS Observation Networks

SyncMaster 940ax  
08:40:19 08/07/12LST 1440Z  
NWSOC - SYSTEM # 3 - KCMO

DEFINE CONFIGURATION

<b>SENSORS</b>		<b>HARDWARE</b>	
CEILOMETER	CL31	ACU MEMORY	1 MEGABYTE
VISIBILITY	BELFORT ASOS	DCP MEMORY	1 MEGABYTE
TEMP	1088	RS 232 MODEM	UDS
DEWPOINT	DTS1	SYNCH MODEM	UDS
PRESENT WX	LEDWI	ACU/DCP COMM	PHASE I RADIO
WIND	VAISALA 425	RT CLOCK	VIDEO CARD
PRESSURE	SETRA MODEL 470	ACU POWER SUP	ASTEC
FREEZING RAIN	PHASE II	DCP POWER SUP	R.O. ASSOC.
SNOW DEPTH	PHASE II	ACU UPS	SOLA
HAIL	PHASE II	DCP UPS	CPI
SUNSHINE	PHASE II	GTA RADIO	★ MOTOROLA VT-200
PRECIP ACCUM	OTT AWPAG		DEFINE CONFIG
THUNDERSTORM	LLP TSS 924		

PRINT		
EXIT	BACK	



National Weather Service Training Center



# REVUE -> DAILY

31

NWS Observation Networks

SyncMaster 940s  
08:50:30 08/07/12LST 1450Z NWSTC - SYSTEM # 3 - KCMO

DAILY SUMMARY FOR 08/07/12 30 FAR TODAY

24 HR MAX TEMP (F):	90	LATEST DAY MAX TEMP (0700-1900 LST):	90
24 HR MAX TEMP TIME (LST):	0849	LATEST NIGHT MIN TEMP(1900-0800 LST):	69
24 HR MIN TEMP (F):	69	SKY COVER MID-MID (OKTAS):	N
24 HR MIN TEMP TIME (LST):	0041	SKY COVER SR-SS (OKTAS):	N
24 HR AVG TEMP (F):		TOTAL SUNSHINE (MINUTES):	N
DEPART FROM NORMAL:		TOTAL SUNSHINE (HOURS):	N
HEATING DEGREE DAYS:		PERCENT POSSIBLE SUNSHINE:	N
COOLING DEGREE DAYS:		CHARACTER OF SUNRISE:	
PEAK WIND SPEED (MPH):	11	CHARACTER OF SUNSET:	
PEAK WIND DIR (DEG):	160	WEATHER (CODE):	
PEAK WIND TIME (LST):	0759		
FASTEST 2MIN SPEED (MPH):	8		
FASTEST 2MIN DIR (DEG):	210		
FASTEST 2MIN TIME (LST):	0834		
AVERAGE WIND SPEED (MPH):			

DAILY DATA

PRINT	PAGE	PREV
		DATE
EXIT	BACK	NEXT



National Weather Service Training Center



Daily Climate Summary data

NWS Observation Networks

SyncMaster 940.exe  
08:50:39 08/07/12LST 1450Z NWSTC - SYSTEM # 3 - KCMO

DAILY PRECIPITATION SUMMARY FOR 08/07/12 SO FAR TODAY

24 HR PRECIPITATION (IN): 0.00  
24 HR SNOWFALL (IN): N  
SNOW DEPTH (IN): N

HOURLY INCREMENTAL PRECIPITATION VALUES (IN):

0059	0.00	1259	-
0159	0.00	1359	-
0259	0.00	1459	-
0359	0.00	1559	-
0459	0.00	1659	-
0559	0.00	1759	-
0659	0.00	1859	-
0759	0.00	1959	-
0859	0.00	2059	-
0959	-	2159	-
1059	-	2259	-
1159	-	2359	-

DAILY DATA

PRINT	PAGE	PREV
		DATE
EXIT	BACK	NEXT



National Weather Service Training Center



Daily Climate Summary Page 2



NWS Observation Networks

SyncMaster 940ex  
08:50:48 08/07/12LST 1450Z NWSTC - SYSTEM # 3 - KCMO

DAILY PRESSURE SUMMARY FOR 08/07/12 SO FAR TODAY

HOURLY STATION PRESSURE VALUES:

1156Z	28.875
1756Z	-
2356Z	-
0556Z	-

AVERAGE STATION PRESSURE: M

MINIMUM SEA LEVEL PRESSURE: 29.14  
TIME OF OCCURRENCE: 0326

DAILY DATA

PRINT	PAGE	PREV
		DATE
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National Weather Service Training Center



Daily Climate Summary Page 3

# REVUE -> MONTH

34

NWS Observation Networks

SyncMaster 340.exe  
00:51:00 08/07/12LST 1451Z NWSTC - SYSTEM # 3 - XCMD

MONTHLY TEMPERATURE SUMMARY - JULY12

AUG DAILY MAXIMUM:	97.9	MAXIMUM TEMPERATURE:	107
AUG DAILY MINIMUM:	73.4	DATE(S) OF MAXIMUM:	25
AUG MONTHLY TEMP:	85.7	MINIMUM TEMPERATURE:	65
DEPART FROM NORMAL:	10.2	DATE(S) OF MINIMUM:	14 11 10

NUM DAYS MAX 32 AND BELOW:	0	NUM DAYS MIN 32 AND BELOW:	0
NUM DAYS MAX 90 AND ABOVE:	28	NUM DAYS MIN 0 AND BELOW:	0

HEATING DEGREE DAYS		COOLING DEGREE DAYS	
MONTHLY TOTAL:	0	MONTHLY TOTAL:	647
DEPART FROM NORMAL:	0	DEPART FROM NORMAL:	+346
SEASON (JUL 1 - JUN 30):	0(E)	SEASON (JAN 1 - DEC 31):	1367(E)
DEPART FROM NORMAL:	0(E)	DEPART FROM NORMAL:	+897(E)

MONTHLY DATA

PRINT	PAGE	AUG
EXIT	BACK	



National Weather Service Training Center



Monthly Climate Summary

NWS Observation Networks

08:51:29 08/07/12LST 1451Z NWSTC - SYSTEM # 3 - KCMO

MONTHLY PRECIPITATION SUMMARY - JULY12

MONTHLY TOTAL:	PRECIPITATION	SNOW
DEPARTURE FROM NORMAL:	1.08	N
GREATEST IN 24 HOURS:	-2.67	
DATE(S) OF OCCURRENCE:	0.67	N
GREATEST DEPTH ON GROUND:	25-26	
DATE(S) OF OCCURRENCE:		N

NUMBER OF DAYS WITH PRECIPITATION .01 INCH OR MORE:	4
NUMBER OF DAYS WITH PRECIPITATION .10 INCH OR MORE:	3
NUMBER OF DAYS WITH PRECIPITATION .50 INCH OR MORE:	0
NUMBER OF DAYS WITH PRECIPITATION 1.00 INCH OR MORE:	0

SHORT DURATION PRECIPITATION AMOUNTS WITH DATE/TIME TAGS:

5 0.24	252316 30 0.33	252329 100 0.39	260016
10 0.32	252319 45 0.34	252350 120 0.47	260105
15 0.32	252319 60 0.38	260011 150 0.48	260132
20 0.33	252329 80 0.39	260016 180 0.60	260158

MONTHLY DATA		
PRINT	PAGE	AUG
EXIT	BACK	



National Weather Service Training Center



Monthly Climate Summary Page 2

NWS Observation Networks

08:51:46 08/07/12LST 1451Z NWSTC - SYSTEM # 3 - KCMO

MONTHLY SUMMARY - JULY12

NUMBER OF CLEAR DAYS: N  
NUMBER OF PARTLY CLOUDY DAYS: N  
NUMBER OF CLOUDY DAYS: N

TOTAL SUNSHINE (HOURS): N  
PERCENT POSSIBLE SUNSHINE: N

AVERAGE STATION PRESSURE: 28.855

HIGHEST SEA LEVEL PRESSURE: 29.32 +  
DATE OF OCCURRENCE: 28  
TIME OF OCCURRENCE: 0734

LOWEST SEA LEVEL PRESSURE: 28.83 +  
DATE OF OCCURRENCE: 25  
TIME OF OCCURRENCE: 1918

AVERAGE SEA LEVEL PRESSURE: 29.14

MONTHLY DATA

PRINT	PAGE	AUG
EXIT	BACK	



National Weather Service Training Center



Monthly Climate Summary Page 3

# REVUE -> SITE -> NORML

37

NWS Observation Networks

SyncMaster 940ex  
08:42:40 08/07/12LST 1442Z NWSTC - SYSTEM # 3 - KCMD

NORMALS FOR AUGUST

DAY	TMIN	TMAX	TAUG	SUN	DAY	TMIN	TMAX	TAUG	SUN	DAY	TMIN	TMAX	TAUG	SUN
1	64	87	76	852	11	64	87	75	831	21	62	85	74	808
2	64	87	76	850	12	63	86	75	829	22	62	85	74	806
3	64	87	76	848	13	63	86	75	826	23	62	85	73	803
4	64	87	76	846	14	63	86	75	824	24	62	85	73	801
5	64	87	76	844	15	63	86	75	822	25	61	85	73	798
6	64	87	76	841	16	63	86	74	820	26	61	85	73	796
7	64	87	75	839	17	63	86	74	817	27	61	84	73	794
8	64	87	75	837	18	63	86	74	815	28	61	84	73	791
9	64	87	75	835	19	63	86	74	813	29	61	84	72	789
10	64	87	75	833	20	62	85	74	810	30	61	84	72	786
										31	60	84	72	784

AUG/SUM: 62.7 85.8 74.3 25388

MONTHLY NORMAL HEATING DEG DAYS: 0  
 MONTHLY NORMAL COOLING DEG DAYS: 260  
 MONTHLY NORMAL PRECIP: 4.16  
 SEASON HEATING DEGREE DAYS: 0  
 SEASON COOLING DEGREE DAYS: 730

NORMALS

PRINT		PREV
EXIT	BACK	NEXT



National Weather Service Training Center



Climate Normals Page

# REVUE -> SENSOR -> DATA

38

NWS Observation Networks

SyncMaster 940ex

08:44:21 08/07/12LST 1444Z NWSTC - SYSTEM # 3 - KCMO

1-MINUTE CURRENT SENSOR DATA

UTC	VIS1	D/N1	VIS2	D/N2	VIS3	D/N3	TEMP	DEWPT	PEAK WIND	RUR
1435	10.00	D					89	54	187	6.9
1436	10.00	D					88	54	191	7.7
1437	10.00	D					89	54	198	7.5
1438	10.00	D					89	55	206	6.1
1439	10.00	D					89	55	207	5.9
1440	10.00	D					90	55	212	6.9
1441	10.00	D					90	56	198	7.5
1442	10.00	D					90	56	196	8.1
1443	10.00	D					90	56	192	7.5
1444	10.00	D								

PRECIPITATION AMOUNT (HOUR): 0.00 IN  
CURRENT SNOW DEPTH: M IN

CURRENT

PRINT	PAGE	
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National Weather Service Training Center



1-Minute Sensor Data

NWS Observation Networks

08:44:40 08/07/12LST 1444Z NWSTC - SYSTEM # 3 - KCMO

1-MINUTE CURRENT SENSOR DATA

UTC	WX	ZR	TS
1430	NP		
1431	NP		
1432	NP		
1433	NP		
1434	NP		
1435	NP		
1436	NP		
1437	M		
1438	NP		
1439	NP		
1440	NP		
1441	NP		
1442	NP		
1443	NP		
1444	NP		

CURRENT

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National Weather Service Training Center



1-Minute Sensor Data Page 2



# REVUE -> SENSOR -> DATA -> PAGE -> PAGE

40

NWS Observation Networks

SyncMaster 940ax  
08:44:59 08/07/12LST 1444Z NWSTC - SYSTEM # 3 - KCMO

READINGS	AVERAGE		WIND SAMPLES		AVERAGE		PEAK		
	DIR	SPEED	DIR	SPEED	DIR	SPEED	DIR	SPEED	
<b>OLDEST</b>	207	5.5	207	6.0	12	200	7.0	199	7.3
<b>23</b>	201	4.9	203	5.4	<b>11</b>	196	6.4	200	7.5
<b>22</b>	200	6.3	202	6.7	<b>10</b>	202	5.7	207	6.2
<b>21</b>	203	6.9	202	7.1	<b>9</b>	202	6.4	199	6.6
<b>20</b>	201	5.3	202	6.4	<b>8</b>	207	5.9	207	6.4
<b>19</b>	201	5.7	200	5.9	<b>7</b>	205	5.9	212	6.6
<b>18</b>	211	5.6	201	6.0	<b>6</b>	199	5.2	202	6.0
<b>17</b>	206	5.8	209	6.4	<b>5</b>	202	6.3	200	7.0
<b>16</b>	214	6.7	212	6.8	<b>4</b>	197	6.5	198	7.5
<b>15</b>	218	6.9	215	7.4	<b>3</b>	200	5.2	206	5.5
<b>14</b>	196	6.7	208	7.8	<b>2</b>	184	5.8	182	6.2
<b>13</b>	195	4.6	186	5.5	<b>NEWEST</b>	193	6.1	187	6.6

AVERAGE WIND TIME = 5 SEC  
AVERAGE PEAK TIME = 3 SEC

PRINT	PAGE	
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National Weather Service Training Center



1-Minute Sensor Data Page 3

NWS Observation Networks

SyncMaster 940ax  
00:45:12 08/07/12LST 1445Z NWSTC - SYSTEM # 3 - KCMO

10-SECOND PRESSURE

READINGS	PRESSURE 1	PRESSURE 2	PRESSURE 3
OLDEST	28.890	28.881	28.888
5	28.890	28.881	28.888
4	28.890	28.881	28.888
3	28.889	28.881	28.888
2	28.889	28.881	28.888
NEWEST	28.889	28.880	28.887

CURRENT

PRINT	PAGE	
		UPDAT
EXIT	BACK	



National Weather Service Training Center



1-Minute Sensor Page 4

NWS Observation Networks

SyncMaster 940.exe  
09:46:31 10/23/12LST 1546Z  
NWSTC - SYSTEM # 3 - RCMP

CL31 # 1

UTC			UTC			UTC		
1532	1	03920	1537	1	03170	1542	1	02580
		1 02550			1 01930			1 01960
1533	1	02290	1538	1	01600	1543	1	01860
		1 02350			1 03370			1 02520
1534	1	01930	1539	1	03110	1544	1	01670
		1 02320			1 01990			1 01600
1535	1	02700	1540	1	03300	1545	1	02260
		1 02650			1 02420			1 01860
1536	1	02350	1541	1	02320	1546	1	03530
		1 02520			1 01830			1 03660

CURRENT

PRINT	PAGE	
MORE		UPDAT
EXIT	BACK	

NWS National Weather Service Training Center

1-Minute Sensor Data Page 5 Cloud Height Indicator (CHI)

# 1 – Minute Screen

43

NWS Observation Networks

05/15/10 10/25/12EST 1545Z NWSTC - SYSTEM # 3 - KCMO

SKY = BKN018 OVC025

VISIBILITY = 8SM

PRESENT WX =

REMARKS = RMK A02 T02170183

TEMP/DEWPT = 21.7 /18.3 C 71 /65 F

WIND DIR/SPD = 170/05

ALTIMETER = 29.79

METAR KSP8 231456Z AUTO 10005KT 7SM BKN020 OVC025 22/18 A2900 RMK A02 SLP015 T02170183 53002 F101

MAG WIND: 170/05

RELATIVE HUMIDITY: 81




SEA LVL PRESSURE: 981.3

STATION PRESSURE: 28.69

PRESSURE ALTITUDE: 1150

DENSITY ALTITUDE: 2200

PRINT	
REWE	
SIGN	AUX

 National Weather Service Training Center  

Main OID Screen with latest transmitted METAR/SPECI and current 1-Minute data

# REVUE -> SENSR -> STAT

44

NWS Observation Networks

SyncMaster 940ax  
11:28:45 10/22/12LST 1728Z  
NWSTC - SYSTEM # 3 - KCMO

SENSOR	DCP#	SELFTEST	DATA QUALITY	AUTO/MAN	RPT PROC
TEMPERATURE	L	P	P	AUTO	ON
DEWPOINT	L	P	P	AUTO	ON
PRESENT WX	L	P	P	AUTO	ON
VISIBILITY #1	L	P	P	AUTO	ON
FREEZING RAIN	L	P	P	AUTO	ON
PRECIP ACCUM	L	P	P	AUTO	ON
WIND 425NWS	L	P	P	AUTO	ON
CL31 #1	L	P	P	AUTO	ON
PRESSURE #1	L	P	P	AUTO	ON
PRESSURE #2	L	P	P	AUTO	ON
PRESSURE #3	L	P	P	AUTO	ON

STATUS

PRINT	PAGE	
EXIT	BACK	



National Weather Service Training Center



Sensor Status Page

# REVUE -> SYSLG

45

NWS Observation Networks

```
SyncMaster 940x
07:55:11 06/04/10 1355Z NWSTC - SYSTEM #1 - KCMO

06/03/10 14:04 *ST 1214 LEDWI PRESENT WEATHER SENSOR SOFTWARE RESET
OCCURRED

06/03/10 14:04 *ST 1880 06/03/10 13:58 TO 06/03/10 14:04 RECOVERED
0.98 INCHES

06/03/10 14:05 *ST 1874 AWPAG SENSOR IS OPERATIONAL

06/03/10 14:06 *ST 2744 TEMPERATURE SENSOR IS OPERATIONAL

MAINTENANCE LOG
PRINT DATE PREV
EXIT BACK NEXT
```

National Weather Service Training Center

This access method works to recover AWPAG precip data when the sensor goes offline and is restored on the same day you're trying to recover missing data for the F6, CLI, and RTP products.

Maintenance code: 1880 is used to recover AWPAG data. The data recovered is the difference in precip weight between the time the sensor went offline, to the time it was returned to service. In the example above, the sensor has been down from 06/03/10, 13:58Z to 06/03/10, 14:04Z and the amount collected in the gauge during that time was 0.98 inches.



**REVUE -> SYSLG -> FILTR** 46

Sync Manager Screen      NWS TC - SYSTEM #1 - KCMU

07:20:33 06/04/10 1320Z

**SYSLOG FILTER PAGE**

CODE(S): 1880

AND

DATE(S):


AND

RECENT DAYS:



**SYSLOG FILTER**

RESET	CLEAR	PREV
		ABORT
	BACK	NEXT

NWS Observation Networks



National Weather Service Training Center

If you need to recover AWPAG precip data for a number of days within the past 30 days, you can progress from the SYSLG screen and select FILTR, which will bring you to the screen shown above. If you enter the code 1880 and hit return the system will provide you a listing of all the AWPAG outages over the past 30 days.



# REVUE -> SYSLG -> FILTR - ENTER

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```
07:20:47 06/04/10 1320Z NWSTC - SYSTEM #1 - KCMO
05/18/10 17:27 *ST 1880 05/18/10 17:24 TO 05/18/10 17:27 RECOVERED
0.00 INCHES
05/26/10 15:45 *ST 1880 05/21/10 11:56 TO 05/26/10 15:45 RECOVERED
0.00 INCHES
06/03/10 13:29 *ST 1880 05/30/10 19:58 TO 06/03/10 13:29 RECOVERED
0.00 INCHES
06/03/10 14:04 *ST 1880 06/03/10 13:58 TO 06/03/10 14:04 RECOVERED
0.98 INCHES
```

MAINTENANCE LOG

PRINT	DATE	PREV
WRITE	FILTR	
EXIT	BACK	NEXT

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The output from the FILTR search of 1880 will provide you with a listing similar to that shown above, if there were any AWPAG outages noted by the system.

You can see the outages above varied in duration from 6 minutes (last entry) to 5 days, 3 hours and 49 minutes (second entry), and you'll note only one had any measured precipitation during the outage 0.98" (last one)