



# **ASOS COMMUNICATIONS TRANSFER IMPLEMENTATION PLAN**

**March 16, 2004**

**U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service/Office of Operational Systems/  
Field Systems Operations Center/Observing Systems Branch**









## Executive Summary

A Memorandum Of Agreement (MOA) was signed on December 12, 2002 by the National Weather Service (NWS) and the Federal Aviation Administration (FAA) for the transition of long-line transmission of Aviation Routine Weather Report (METAR) data at 185 NWS sponsored Automated Surface Observing System (ASOS) locations from NWS Advanced Weather Interactive Processing System (AWIPS) communications network to the FAA Automated Weather Observing System Data Acquisition System (ADAS) communications network. The purpose of this transition is to standardize the method for reporting lightning data at ASOS locations throughout the contiguous United States. This will be accomplished by making the FAA's Automated Lightning Detection And Reporting System (ALDARS) data available at these locations via ADAS connectivity. This transition will occur in two stages. Stage 1 will be completed by September 30, 2005 at 33 NWS sponsored locations. These locations include 19 designated service level D ASOS airport locations currently without thunderstorm information, and 14 other service level D airport locations currently equipped with a single site lightning detection sensor. Stage 2 will be completed by September 30, 2006 at an additional 78 NWS sponsored ASOS locations. These locations include the remaining 56 NWS sponsored service level A or B locations, and 22 designated service level C locations.

When the communications transition occurs all data from these locations will be transmitted through FAA ADAS and routed to NWS through FAA Weather Message Switching Center Replacement (WMSCR) to NWS Telecommunications Gateway (NWSTG).

The impact of these changes will be enhanced reporting of lightning data, and substantial cost savings to NWS through automation of the lightning data observation at unstaffed locations and cancellation of NWS AWIPS dial-out phone lines from all these locations. When this occurs, dial-out backup phone lines from these locations to NWS AWIPS will end and all long-line communications will be through FAA ADAS network. Another consequence of this change will be observations from these locations will be placed in different World Meteorological Organization (WMO) Collectives for external dissemination. This will necessitate a coordinated effort to alert users of this change and urge them to modify automated software applications to find the data in the different Collectives.

FAA funds for the bulk of sites in Stage 1 and Stage 2 are dependent on funding appropriations. The start date of Stage 1 and Stage 2 are only limited by implementation expenses and available funds. However where there are no such limitations, work can begin sooner. For example, of the 78 sites in Stage 2 there are 37 sites where codex modems and ADAS connectivity are already in place. Work at these 37 sites can begin in Calendar Year (CY) 2004. This plan addresses this subset of sites in Stage 2 transitioning in CY 2004. Future plans will be written for the transition of the remaining sites.

This plan describes the method through which this transition will occur for the 37 ASOS locations in CY 2004. The transition for this group is authorized by the approved Request For Change (RC) FAA tracking number: FAA-number To Be Determined (TBD), NWS tracking number: AA-number TBD.

The transition for the 37 ASOS locations will occur between June 2004 and December 2004. Schedules, responsibilities, strategies, and scenarios are included in this plan. This plan provides a transition period at each location when observations are transmitted through both NWS/AWIPS and FAA/ADAS communications networks to ensure the final switch over goes smoothly.

# TABLE OF CONTENTS

|   | <u>Page</u> |
|---|-------------|
| Executive Summary.....  | i           |
| List of Organizational Codes.....                             | v           |
| <b>PART 1: GENERAL.....</b>                                   | <b>1</b>    |
| 1.1 Purpose and Scope.....                                    | 2           |
| 1.2 Schedules and Responsibilities.....                       | 2           |
| <b>PART 2: OVERALL ACTIVITIES.....</b>                        | <b>4</b>    |
| 2.1 Identify The ASOS Locations And Implementation Dates..... | 4           |
| 2.2 The ASOS Request For Change.....                          | 4           |
| 2.3 The ASOS Communications Transfer Implementation Plan..... | 4           |
| 2.4 Batch Transfer Strategy.....                              | 5           |
| 2.5 Back-Up Communications Strategy.....                      | 6           |
| <b>PART 3: ACTIP ACTIVITIES.....</b>                          | <b>8</b>    |
| 3.1 One - Time Activities.....                                | 8           |
| 3.2 Site - Specific Activities.....                           | 10          |
| <br>Appendix  |             |
| Appendix I: MOA Transition Site Lists.....                    | I-1         |
| Appendix II: Request For Change.....                          | II-1        |
| Appendix III: ASOS Communications Transition Schedules.....   | III-1       |
| Appendix IV: ASOS Collective Message Headers.....             | IV-1        |
| Appendix V: Generic ASOS Implementation Notice.....           | V-1         |





## List of Organizational Codes

| <u>Code</u> | <u>NWS Organization</u>                     |
|-------------|---|
| CIO11       | Data Dissemination Branch                   |
| CIO12       | ASOS Operations and Monitoring Center       |
| CIO14       | Telecommunications Infrastructure Branch    |
| OPS11       | Engineering & Acquisition Branch            |
| OPS12       | Maintenance Branch                          |
| OPS13       | Configuration Branch                        |
| OPS14       | Logistics Branch                            |
| OPS22       | Observing Systems Branch                    |
| OPS23       | Software Branch                             |
| OPS24       | Test & Evaluation Branch                    |
| OPS31       | Operations Support & Monitoring Branch      |
| OS12        | Requirements Change Management Branch       |
| OS7         | Observing Services Division                 |
| OST2        | Meteorological Development Laboratory (MDL) |
| TOC         | Telecommunication Gateway Operations Branch |

| <u>Code</u> | <u>FAA Organization</u>                                    |
|-------------|--|
| AOS-700     | Network Engineering Management Division                    |
| ARU-1       | Air Traffic Systems Development Directorate                |
| ARS- 100    | Aerospace Weather Policy Division                          |
| ARS- 200    | Aerospace Weather Standards Division                       |
| ATB-400     | Surveillance IPT   |
| ATB-420     | Weather Surveillance                                       |
| ATP-120     | Terminal Operations/Procedures Branch                      |
| ATP-300     | Flight Service Operations Division                         |
| ATP-310     | Meteorological Support                                     |
| AUA-400     | IPT* for Weather/Flight Service Systems                    |
| AUA-430     | Weather Sensors and Aviation Weather Research Product Team |

\*IPT = Integrated Product Team



# ASOS COMMUNICATIONS TRANSFER IMPLEMENTATION PLAN

## 1.0 GENERAL:

When the National Weather Service (NWS) and the Federal Aviation Agency (FAA) deployed and implemented the Automated Surface Observing System (ASOS) at 884 locations nationwide from 1992 through 2001, each agency assumed responsibility for long-line communications for their respective sponsored locations (313 NWS; 571 FAA). This meant NWS sponsored locations transmitted Aviation Routine Meteorological Report (METAR) observations through NWS Advanced Weather Interactive Processing System (AWIPS) communications network for nationwide dissemination, and FAA sponsored locations transmitted their METAR observations through FAA Automated Weather Observing System Data Acquisition System (ADAS) and the Data Multiplexing Network (DMN) communications network for nationwide dissemination. Data are exchanged between these networks via NWS Gateway - FAA Weather Message Switching Center Replacement (WMSCR) interface.

The FAA's Automated Lightning Detection And Reporting System (ALDARS) became available in the late 1990s and provided the capability to report automated thunderstorm information in the ASOS METAR. Initially, only FAA sponsored ASOS locations were provided ALDARS data. The FAA proposed that ALDARS should be the standard method for providing automated thunderstorm information to ASOS locations in the contiguous United States. ALDARS messages are generated by the ADAS. To enable a site to receive automated ALDARS messages the communications pathway at NWS sponsored locations needs to be changed to the FAA DMN network for connection to ADAS. The process of transitioning the communications pathway began with a Memorandum Of Agreement (MOA) signed by NWS and FAA in June, 2000. This MOA resulted in 58 NWS sponsored ASOS locations being transitioned to the FAA communications network in 2001-2002. In 2002, FAA submitted a Request For Change (RC) through the ASOS change management process to transition an additional 40 ASOS sites to ADAS connectivity to support their Integrated Terminal Weather System (ITWS) operational need for one-minute ASOS data. Activity on this RC began in 2002 and will be completed in 2005-2006 as FAA funding permits.

A second MOA was signed by NWS and FAA in December, 2002. This MOA identifies 186 NWS sponsored locations to be transferred to FAA ADAS (the 40 sites on the ITWS RC are included). The time frame for this action is contingent upon FAA obtaining necessary funding and will occur in two stages. Stage 1 will be completed by September 30, 2005 at 32 NWS sponsored locations. These locations include 19 designated FAA service level D ASOS airport locations currently without thunderstorm information in the observation, and 12 service level D ASOS airport locations and 1 service level C ASOS airport location currently equipped with a single site lightning detection sensor (see Appendix I, FY '05 Stage 1). Stage 2 will be completed by September 30, 2006 at an additional 78 NWS sponsored ASOS locations. These locations include the remaining 56 NWS sponsored FAA

service level A or B locations, and 22 designated service level C locations (see Appendix I, FY '06 Stage 2). The proscribed end dates do not inhibit the start date of either the Stage 1 or Stage 2 sites provided the necessary resources are available. Of the original locations in Stage 2, 37 sites already have the necessary resources to transition in CY 2004 (see Appendix I, CY '04) . This implementation plan addresses this subset of 37 sites.

When the transition is complete, all reports and messages will be transmitted through ADAS. These reports and messages include the ASOS Aviation Routine Meteorological Report (METAR) and Aviation Selected Special Weather Report (SPECI), the ASOS Standard Hydro meteorological Exchange Format (SHEF) precipitation criteria and hourly accumulation messages, and the Daily Summary Message (DSM) and the Monthly Summary Message (MSM). Re-routing of these reports and messages requires these data be placed in different World Meteorological Organization (WMO) Collectives for dissemination through NWS channels. To prevent any disruption of data, the user community will be informed of the new Collective headers containing these data. This transition process requires coordinated adjustments between NWS and FAA. This implementation plan describes these coordination activities.

### **1.1 Purpose and Scope:**

This ASOS Communications Transfer Implementation Plan (ACTIP) identifies schedules and responsibilities for 37 ASOS locations, originally scheduled in Stage 2, now planned for transitioning in CY 2004. The plan provides guidance and direction to national and regional headquarters personnel in tracking the completion of the various tasks involved in the transition of the external ASOS communications responsibility from NWS to FAA. These tasks include interagency coordination, user notification, installation, checkout, and operational implementation. This transition will occur between June 2004 and December 2004, inclusive. These CY 2004 ASOS transition locations are identified in Appendix I. The Request For Change for these locations is in Appendix II. The ASOS Communications Transition Schedule for them is in Appendix III, and the new WMO Collective Headers for them are in Appendix IV. A Generic ASOS Implementation Notice for these locations is in Appendix V.

### **1.2 Schedules and Responsibilities:**

The schedule for accomplishing the transition for these 37 locations is provided in Appendix III of the plan. The implementation responsibility for this transition is assigned to FAA Aerospace Weather Policy and Standards Staff, ARS-200, and Surveillance and Weather Requirements, ATB-420, and NWS Observing Systems Branch, OPS22. NWS OPS22 has overall responsibility for preparing, monitoring, and ensuring successful execution of this plan. FAA/AUA-430 is primarily responsible for identifying the 37 sites and the scheduled dates when these sites will be ready for transition. The schedule provided in Appendix III is subject to change as conditions warrant. Coordinated updates to this schedule will be issued by OPS22 and AUA-430 when necessary.

## **2.0 OVERALL ACTIVITIES:**

The overall scope of activities includes:

- A. Identify the ASOS locations and the target implementation dates.
- B. Submit and secure approval of the ASOS Request For Change (RC) for this transition.
- C. Prepare and execute the implementation plan for transition of ASOS long-line communications responsibility from NWS to FAA.

### **2.1 Identify The ASOS Locations And Implementation Dates:**

NWS OPS22 will coordinate with FAA AUA-430 to identify the sites for this transition and establish implementation dates. AUA-430 will provide all internal FAA coordination to accomplish this task.

### **2.2 The ASOS Request For Change (RC):**

The submission and approval of the RC for switching the long-line communications routing from NWS/AWIPS circuits to FAA/DMN circuits is the formal process for authorizing and initiating this transition. Only one RC is needed. This RC will cover ASOS, AWIPS, and Data Review Group (DRG) issues. The RC is submitted by FAA AUA-430 to the ASOS Configuration Control Board (ACCB) for approval. It will then be routed to AWIPS and DRG for parallel consideration and action. The RC identifies the broad activities required for this transition, and the associated Office(s) of Primary Responsibility. It also references this plan where other critical actions are addressed (see Appendix II for a copy of the RC).

### **2.3 The ASOS Communications Transfer Implementation Plan (ACTIP):**

This plan is the overarching planning document for the communications transfer. It identifies schedules and responsibilities for those activities related to interagency coordination, definition of bulletin headers, user notification, and installation schedules. These activities include installation of FAA communications lines to the ASOS by FAA Telco Network Planning & Engineering Division (AOP-400); interface of these communications lines with the ADAS at the 22 Air Route Traffic Control Center (ARTCC) by FAA AUA-430; connection of these communications lines to the ASOS Acquisition Control Unit (ACU) by NWS; and checkout/activation procedures. The ACTIP establishes a master schedule and assigns responsibility for accomplishing these activities. Some activities apply to the entire group and need to occur only once, while other activities are site specific and need to occur each time an ASOS location's communications pathway is transferred. This plan

will serve as initial guidance and direction, and may be modified during the course of the implementation as conditions warrant. The ACTIP is jointly developed and managed by NWS/OPS22, FAA AUA-430, FAA ARS-200, and FAA ATB-420.

#### **2.4 Batch Transfer Strategy:**

The transfer of communications for these 37 ASOS locations will occur in monthly batches. The first batch is planned to be transitioned in June 2004. The sequence of events for the transition of each batch is described below. The Office of Primary Responsibility (OPR) and due date for each event is indicated in **bold face**.

- A. Identify candidate sites and establish a tentative schedule for ADAS connectivity for this communications transition.  
**OPR: FAA AUA-430. COMPLETED**
- B. Ensure ADAS/ALDARS is enabled at designated locations on scheduled date (see Appendix III). FAA AUA-430 will inform NWS OPS22 of the official date(s) for ALDARS availability. OPS22 will inform CIO12 and NWS Regional Focal Points of these dates and issue a second notice to users of the impending change. On the scheduled date for ALDARS availability either the FAA observer or NWS CIO12 will enable report processing for ALDARS data at the designated ASOS location(s). This establishes ALDARS availability for the site. FAA AUA-430 and NWS CIO12 will coordinate this activity **OPR: NWS CIO12; FAA AUA-430. Due Date dependant on actual completion of activity.**
- C. Submit RC to ASOS CCB/DRG  
**OPR: FAA AUA-430. Due Date 12/31/03 (TO BE COMPLETED)**
- D. Obtain approval for RC  
**OPR: NWS OPS22. Due Date 01/30/04 (TO BE COMPLETED)**
- E. Add ASOS data (METAR/SPECI) and messages (SHEF, DSM, MSM) from 37 ASOS locations to other ASOS data and messages in SAUS70 Collective.  
**OPR: NWS CIO11. Due Date 05/19/04**
- F. Install filters at FAA Weather Message Switching Center Replacement (WMSCR) and NWS Telecommunications Gateway (TG) to prevent transmission of ASOS METAR/SPECI across the WMSCR/TG interface for this group of 37 locations. This prevents receipt of duplicate observations from the other agency. Each agency gets the METAR/SPECI reports only through their own channels. **OPR: NWS CIO11; FAA AUA-430. Due Date dependant on activation of the site's ADAS interface.**
- G. Ensure revised Augmentation/Backup dial-out phone numbers are used starting on scheduled

date in accordance with Appendix III as amended. **OPR: FAA AUA-430. Due Date dependant on actual completion of activity.**

H. When ready to cancel the AWIPS connectivity, perform the following:

1. Remove all AWIPS Configuration Data in the ASOS. **OPR: NWS CIO12/AOMC**
2. Coordinate deactivation of the Data Product filters at FAA Weather Message Switching Center Replacement (WMSCR). At this point, only FAA ADAS communications channel should be active. **OPR: NWS CIO12/AOMC**
  1. Verify the site's METAR/SPECI data products are delivered from FAA WMSCR to NWSTG and are available for distribution to the appropriate NWS forecast office(s). **OPR: NWS CIO12/AOMC**
3. Ensure regional/local backup capability exists to retrieve METAR/SPECI data (see section 2.4). **OPR: NWS ASOS Regional Focal Points**
4. Coordinate cancellation of dial-out phone lines for the ASOS locations. **OPR: NWS CIO12/AOMC; CIO14**

## **2.5 Back-Up Communications Strategy:**

A key element in this transition is AWIPS connectivity will remain until all the elements of the ADAS transition are proven successful. This will ensure back-up communications capability during the transition period. Once the communications transfer is made at each ASOS location only FAA ADAS connectivity will exist for dissemination of the ASOS observations.

There is no current national FAA or NWS requirement for automated backup of long-line communications with ADAS. The existing alternate manual method used by NWS field offices for obtaining ASOS METAR/SPECI, SHEF, and DSM/MSM data in a timely manner is through direct command mode remote access to the ASOS. Furthermore, if the ADAS long-line communications fails at those locations where CWO personnel or LAWRS-certified controllers are available, they should phone the observation to the nearest Automated Flight Service Station (AFSS) for long-line dissemination.

If there are additional NWS Regional or local requirements for backup long-line communications to ensure availability or timeliness of the data then other more elegant solutions may be pursued. These potential solutions and their required efforts are beyond the scope of this plan.





## **3.0 ACTIP ACTIVITIES:**

### **3.1 One-Time Activities**

The following activities will be accomplished after receipt of the RC for this transition by the ASOS CCB, and preferably at least 30 days prior to first scheduled communications transfer (i.e., activation of the ADAS/ALDARS and deactivation of the AWIPS/dial phone lines):

- D. OPS22 will issue the first generic notice, with *tentative* implementation schedule, to users of the impending change (see Appendix V for sample *generic* notice.) This notice is applicable to the entire group of transition sites. Additional site-specific, schedule specific notices will be issued just prior to, and just after transition. This notification will identify the new bulletin headers for the ASOS messages when the communications pathway changes from NWS to FAA and also identify those locations where the augmentation/backup Service Levels will change. The purpose of this initial notification is to advise users to modify their software (decoders) to recognize the new bulletin headers where these messages are found and also alert them to the possible 4-5 minute delay in receiving these messages. Subsequent notifications will be issued when site specific dates of the impending change are firm.
- E. OPS12 will coordinate the RC with the AWIPS Configuration Control Board and Data Review Group (DRG), to obtain clearance for AWIPS deactivation on the planned dates.
- F. OPS22 will notify CIO14 (Telecommunications Infrastructure Branch) of ASOS locations and communications transition dates.
- G. OPS22 will alert NWSTG and AOMC of plans to transition the communications pathway and assure NWSTG and AOMC, AWIPS CCB and DRG plans and activities are coordinated.
- H. AUA-430 will obtain from AOS-700 their schedule for installation of the communications lines and factor this into the ACTIP master schedule.
- I. AUA-430 will inform FAA WMSCR of initial plans to transition the communications pathway for the ASOS locations and factor their preparation time and activities into the master ACTIP schedule.
- J. A draft schedule will be prepared at least 30 days prior to first site transition. The schedule will be firmed up at least 15 days prior to first site transition.
- K. AUA-430 will formally inform OPS22 of the official scheduled dates for ALDARS availability. This notification will be provided at least three working days prior to initial implementation of ALDARS availability. Upon receipt of this notification, OPS22 will inform NWS personnel of any changes to the schedule and order the implementation to begin as scheduled. OPS22 will also issue the second notice to users of ALDARS availability date(s).

- L. AUA-430 will coordinate with ATP-120 to ensure FAA government or contract observers are properly trained on backup/augmentation procedures including how to activate/deactivate ALDARS, and how to disseminate backup observations when communication failures occur. This training will be complete before ADAS/ALDARS is activated. Completion dates for this training are in Appendix III.
- M. AUA-430 will coordinate with ATP-120 to establish dates for FAA assumption of augmentation/backup responsibilities. AUA-430 will inform OPS22 of these dates.

### 3.2 Site-specific Activities:

The following site-specific activities will occur once the master schedule is firm, and all the preliminary One-Time activities are complete:

- N. AUA-430 will coordinate with AOS-700 when site-specific long-line communications paths are installed and take appropriate action to establish ADAS connectivity. NWS OPS12 (Maintenance Branch) will coordinate with AUA-430 on when to issue Modification Note (Mod Note) # 45, Errata 1, on procedures for connecting FAA long-line communications circuit demarc to the ASOS. OPS12 will also coordinate with NWS Regional ASOS Focal Points on tasking and scheduling technicians to accomplish this task. At some sites the communications demarc will be connected to the ACU from an existing Codex modem. At other sites where there is no Codex modem, a Codex modem will be installed in the ACU. These differences are described in the Mod Note #45, Errata 1. AUA-430 and OPS12 will inform OPS22 when all technical preparations are complete at each site.
- O. OPS22 will issue site-specific notices of the impending transfer to the appropriate user groups at least 24 hours prior to transition.
- P. The nominal time for initiation of the ADAS/ALDARS availability, and deactivation of the AWIPS/dial out connectivity will be 1400 UTC on the scheduled dates in Appendix III. AOMC will perform this task when required. This will involve disabling the AWIPS communications interface according to the sequence of events as described in Section 2.3, Batch Transfer Strategy. AOMC will notify NWS ASOS Regional Focal Points, OPS22, CIO14, AOS-700, and AUA-430 when the transfer was successfully completed at each site.
- Q. OPS22 will issue a final notice of the successful site-specific transfer 24-72 hours after deactivation of the AWIPS/dial out connectivity.
- R. CIO12/AOMC will coordinate with CIO14 to initiate action to terminate the ASOS communications dial-out line. This coordination will begin after CIO12/AOMC deactivates the AWIPS dial-out connectivity.
- S. AUA-430 will notify ATB-420 of the successful transition.



# **Appendix I**

## **MOA TRANSITION SITE LISTS**

### **CY '04 SUBSET STAGE 2 SITES**

#### **FY '05 STAGE 1 SITES**

#### **FY '06 STAGE 2 SITES**



## CY '04 TRANSITION IMPLEMENTATION SITES

| APPENDIX I |                       | 03/16/04 |        |         |         |
|------------|-----------------------|----------|--------|---------|---------|
| SID        | NAME                  | STATE    | REGION | REMARKS | SVC LVL |
| KAAF       | Apalachicola          | FL       | SRH    |         | D       |
| KAKQ       | Wakefield             | VA       | ERH    |         | D       |
| KAVP       | Wilkes-Barre/Scranton | PA       | ERH    |         | C       |
| KCOS       | Colorado Springs      | CO       | CRH    |         | B       |
| KCOU       | Columbia              | MO       | CRH    |         | C       |
| KDBQ       | Dubuque               | IA       | CRH    |         | C       |
| KDRT       | Del Rio               | TX       | SRH    |         | D       |
| KDSM       | Des Moines            | IA       | CRH    |         | A       |
| KGCC       | Gillette              | WY       | CRH    |         | D       |
| KGUY       | Guymon                | OK       | SRH    |         | D       |
| KILN       | Wilmington            | OH       | ERH    |         | D       |
| KINW       | Winslow               | AZ       | WRH    |         | D       |
| KIRK       | Kirksville            | MO       | CRH    |         | D       |
| KLGB       | Long Beach            | CA       | WRH    |         | C       |
| KLIC       | Limon                 | CO       | CRH    |         | D       |
| KLLJ       | Challis               | ID       | WRH    |         | D       |
| KLNK       | Lincoln               | NE       | CRH    |         | C       |
| KLWD       | Lamoni                | IA       | CRH    |         | D       |
| KLWS       | Lewiston              | ID       | WRH    |         | C       |
| KLYH       | Lynchburg             | VA       | ERH    |         | C       |
| KMYL       | McCall                | ID       | WRH    |         | D       |
| KOFK       | Norfolk               | NE       | CRH    |         | D       |
| KPGA       | Page                  | AZ       | WRH    |         | D       |
| KPOF       | Poplar Bluff          | MO       | CRH    |         | D       |
| KRIW       | Riverton              | WY       | CRH    |         | D       |
| KRMG       | Rome                  | GA       | SRH    |         | D       |
| KSHN       | Shelton               | WA       | WRH    |         | D       |
| KSTC       | St. Cloud             | MN       | CRH    |         | D       |

| SID  | NAME        | STATE | REGION | REMARKS             | SVC LVL |
|------|-------------|-------|--------|---------------------|---------|
| KYKM | Yakima      | WA    | WRH    |                     | C       |
| KALS | Alamosa     | CO    | CRH    | THUNDERSTORM SENSOR | D       |
| KAST | Astoria     | OR    | WRH    | THUNDERSTORM SENSOR | D       |
| KBFF | Scottsbluff | NE    | CRH    | THUNDERSTORM SENSOR | D       |
| KCNK | Concordia   | KS    | CRH    | THUNDERSTORM SENSOR | D       |
| KFCA | Kalispell   | MT    | WRH    | THUNDERSTORM SENSOR | D       |
| KHVR | Havre       | MT    | WRH    | THUNDERSTORM SENSOR | D       |
| KISN | Williston   | ND    | CRH    | THUNDERSTORM SENSOR | D       |
| KVTN | Valentine   | NE    | CRH    | THUNDERSTORM SENSOR | D       |



## FY '05 TRANSITION IMPLEMENTATION (STAGE 1) SITES

| APPENDIX I |                       | 03/16/04 |        |                     |         |
|------------|-----------------------|----------|--------|---------------------|---------|
| SID        | NAME                  | STATE    | REGION | REMARKS             | SVC LVL |
| KAAT       | Alturas               | CA       | WRH    |                     | D       |
| KBIH       | Bishop                | CA       | WRH    |                     | D       |
| KBLU       | Emigrant Gap          | CA       | WRH    |                     | D       |
| KBNO       | Burns                 | OR       | WRH    |                     | D       |
| KCAO       | Clayton               | NM       | SRH    |                     | D       |
| KCUT       | Custer                | SD       | CRH    |                     | D       |
| KHSE       | Hatteras              | NC       | ERH    |                     | D       |
| KIGM       | Kingman               | AZ       | WRH    |                     | D       |
| KJCT       | Junction              | TX       | SRH    |                     | D       |
| KLXV       | Leadville             | CO       | CRH    |                     | D       |
| KMBG       | Mobridge              | SD       | CRH    |                     | D       |
| KPHP       | Philip                | SD       | CRH    |                     | D       |
| KRNM       | Ramona                | CA       | WRH    |                     | D       |
| KRQE       | Window Rock           | AZ       | WRH    |                     | D       |
| KRTN       | Raton                 | NM       | SRH    |                     | D       |
| KSAD       | Safford               | AZ       | WRH    |                     | D       |
| KTCS       | Truth or Consequences | NM       | SRH    |                     | D       |
| KUIL       | Quillayute            | WA       | WRH    |                     | D       |
| KWAL       | Wallops Island        | VA       | ERH    |                     | D       |
| KANJ       | Sault Ste Marie       | MI       | CRH    | THUNDERSTORM SENSOR | D       |
| KAPN       | Alpena                | MI       | CRH    | THUNDERSTORM SENSOR | D       |
| KBKW       | Beckley               | WV       | ERH    | THUNDERSTORM SENSOR | D       |
| KCAR       | Caribou               | ME       | ERH    | THUNDERSTORM SENSOR | D       |
| KCON       | Concord               | NH       | ERH    | THUNDERSTORM SENSOR | D       |
| KELY       | Ely                   | NV       | WRH    | THUNDERSTORM SENSOR | D       |
| KHTL       | Houghton Lake         | MI       | CRH    | THUNDERSTORM SENSOR | D       |
| KINL       | International Falls   | MN       | CRH    | THUNDERSTORM SENSOR | D       |
| KLND       | Lander                | WY       | CRH    | THUNDERSTORM SENSOR | D       |
| KOFK       | Norfolk               | NE       | CRH    | THUNDERSTORM SENSOR | D       |
| KTUP       | Tupelo                | MS       | SRH    | THUNDERSTORM SENSOR | C       |
| KVCT       | Victoria              | TX       | SRH    | THUNDERSTORM SENSOR | D       |
| KWMC       | Winnemucca            | NV       | WRH    | THUNDERSTORM SENSOR | D       |
|            |                       |          |        |                     |         |

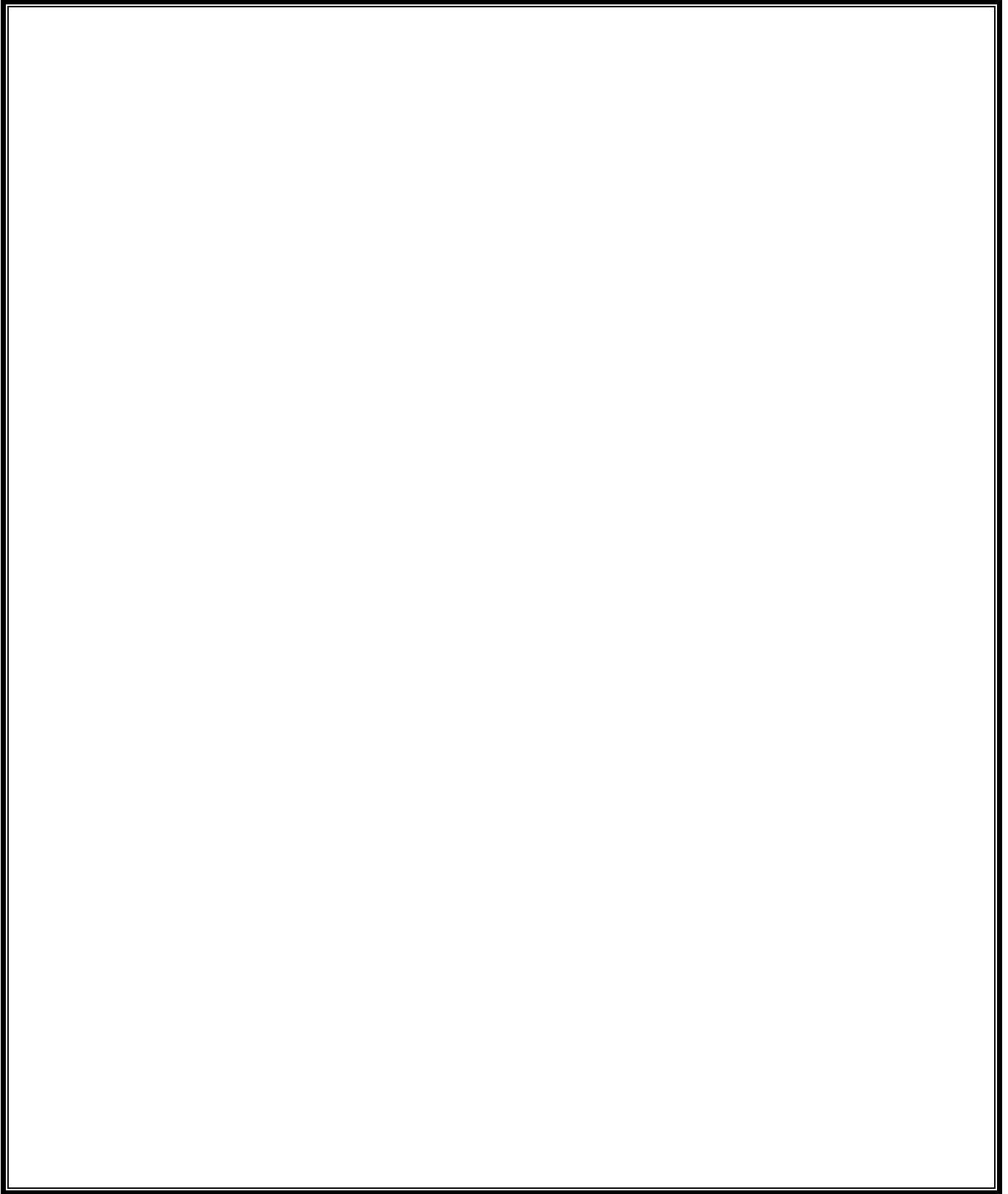


## FY '06 TRANSITION IMPLEMENTATION (STAGE 2) SITES

| APPENDIX I |                | 03/16/04 |        |         |         |
|------------|----------------|----------|--------|---------|---------|
| SID        | NAME           | STATE    | REGION | REMARKS | SVC LVL |
| KNUQ       | Mountain View  | CA       | WRH    |         | A       |
| KSPS       | Wichita Falls  | TX       | SRH    |         | C       |
| KABQ       | Albuquerque    | NM       | SRH    |         | A       |
| KBUF       | Buffalo        | NY       | ERH    |         | A       |
| KCAE       | Columbia       | SC       | ERH    |         | A       |
| KCAK       | Akron          | OH       | ERH    |         | A       |
| KCHA       | Chattanooga    | TN       | SRH    |         | A       |
| KCRW       | Charleston     | WV       | ERH    |         | A       |
| KFAT       | Fresno         | CA       | WRH    |         | A       |
| KFWA       | Fort Wayne     | IN       | CRH    |         | A       |
| KGEG       | Spokane        | WA       | WRH    |         | A       |
| KGRR       | Grand Rapids   | MI       | CRH    |         | A       |
| KJAX       | Jacksonville   | FL       | SRH    |         | A       |
| KLAX       | Los Angeles    | CA       | WRH    |         | A       |
| KPDX       | Portland       | OR       | WRH    |         | A       |
| KPVD       | Providence     | RI       | ERH    |         | A       |
| KRFD       | Rockford       | IL       | CRH    |         | A       |
| KRIC       | Richmond       | VA       | ERH    |         | A       |
| KRNO       | Reno           | NV       | WRH    |         | A       |
| KSAN       | San Diego      | CA       | WRH    |         | A       |
| KSAT       | San Antonio    | TX       | SRH    |         | A       |
| KSEA       | Seattle        | WA       | WRH    |         | A       |
| KSFO       | San Francisco  | CA       | WRH    |         | A       |
| KSYR       | Syracuse       | NY       | ERH    |         | A       |
| KTYS       | Knoxville      | TN       | SRH    |         | A       |
| KALB       | Albany         | NY       | ERH    |         | B       |
| KBTR       | Baton Rouge    | LA       | SRH    |         | B       |
| KBTV       | Burlington     | VT       | ERH    |         | B       |
| KCHS       | Charleston     | SC       | ERH    |         | B       |
| KCRP       | Corpus Christi | TX       | SRH    |         | B       |
| KDAB       | Daytona Beach  | FL       | SRH    |         | B       |

|      |               |    |     |  |   |
|------|---------------|----|-----|--|---|
|      |               |    |     |  |   |
| KFNT | Flint         | MI | CRH |  | B |
| KFSD | Sioux Falls   | SD | CRH |  | B |
| KGSO | Greensboro    | NC | ERH |  | B |
| KJAN | Jackson       | MS | SRH |  | B |
| KLAN | Lansing       | MI | CRH |  | B |
| KLBB | Lubbock       | TX | SRH |  | B |
| KMKG | Muskegon      | MI | CRH |  | B |
| KMOB | Mobile        | AL | SRH |  | B |
| KMSN | Madison       | WI | CRH |  | B |
| KORF | Norfolk       | VA | ERH |  | B |
| KPIA | Peoria        | IL | CRH |  | B |
| KROA | Roanoke       | VA | ERH |  | B |
| KSAV | Savannah      | GA | ERH |  | B |
| KSBN | South Bend    | IN | CRH |  | B |
| KSHV | Shreveport    | LA | SRH |  | B |
| KTEB | Teterboro     | NJ | ERH |  | B |
| KTLH | Tallahassee   | FL | SRH |  | B |
| KYNG | Youngstown    | OH | ERH |  | B |
| KABE | Allentown     | PA | ERH |  | C |
| KABI | Abilene       | TX | SRH |  | C |
| KACY | Atlantic City | NJ | ERH |  | C |
| KBDL | Windsor Locks | CT | ERH |  | A |
| KBDR | Bridgeport    | CT | ERH |  | C |
| KBIL | Billings      | MT | WRH |  | B |
| KDLH | Duluth        | MN | CRH |  | B |
| KEKN | Elkins        | WV | ERH |  | C |
| KFAR | Fargo         | ND | CRH |  | C |
| KFLG | Flagstaff     | AZ | WRH |  | C |
| KFMN | Farmington    | NM | SRH |  | C |
| KHON | Huron         | SD | CRH |  | C |
| KHSV | Huntsville    | AL | SRH |  | B |

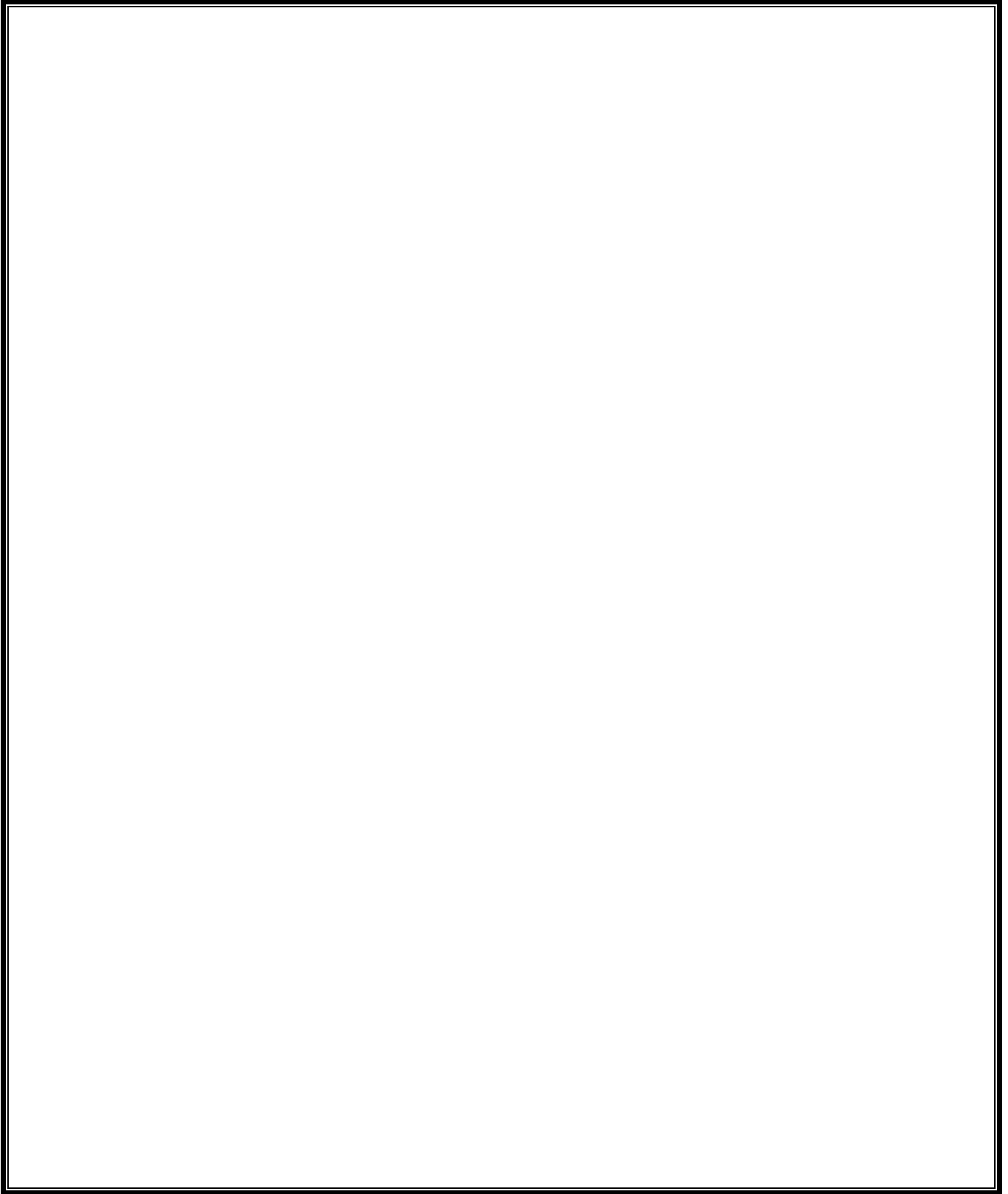
|      |             |    |     |  |   |
|------|-------------|----|-----|--|---|
| KHTS | Huntington  | WV | ERH |  | C |
| KLEX | Lexington   | KY | CRH |  | C |
| KMCN | Macon       | GA | SRH |  | C |
| KMFD | Mansfield   | OH | ERH |  | C |
| KMGM | Montgomery  | AL | SRH |  | B |
| KMLF | Milford     | UT | WRH |  | C |
| KORH | Worcester   | MA | ERH |  | C |
| KROC | Rochester   | NY | ERH |  | A |
| KROW | Roswell     | NM | SRH |  | C |
| KSCK | Stockton    | CA | WRH |  | C |
| KSDM | San Diego   | CA | WRH |  | C |
| KSMX | Santa Maria | CA | WRH |  | C |
| KTOL | Toledo      | OH | ERH |  | C |
| KTRI | Kingsport   | TN | SRH |  | A |
| KTUS | Tucson      | AZ | WRH |  | C |
|      |             |    |     |  |   |





# **Appendix II**

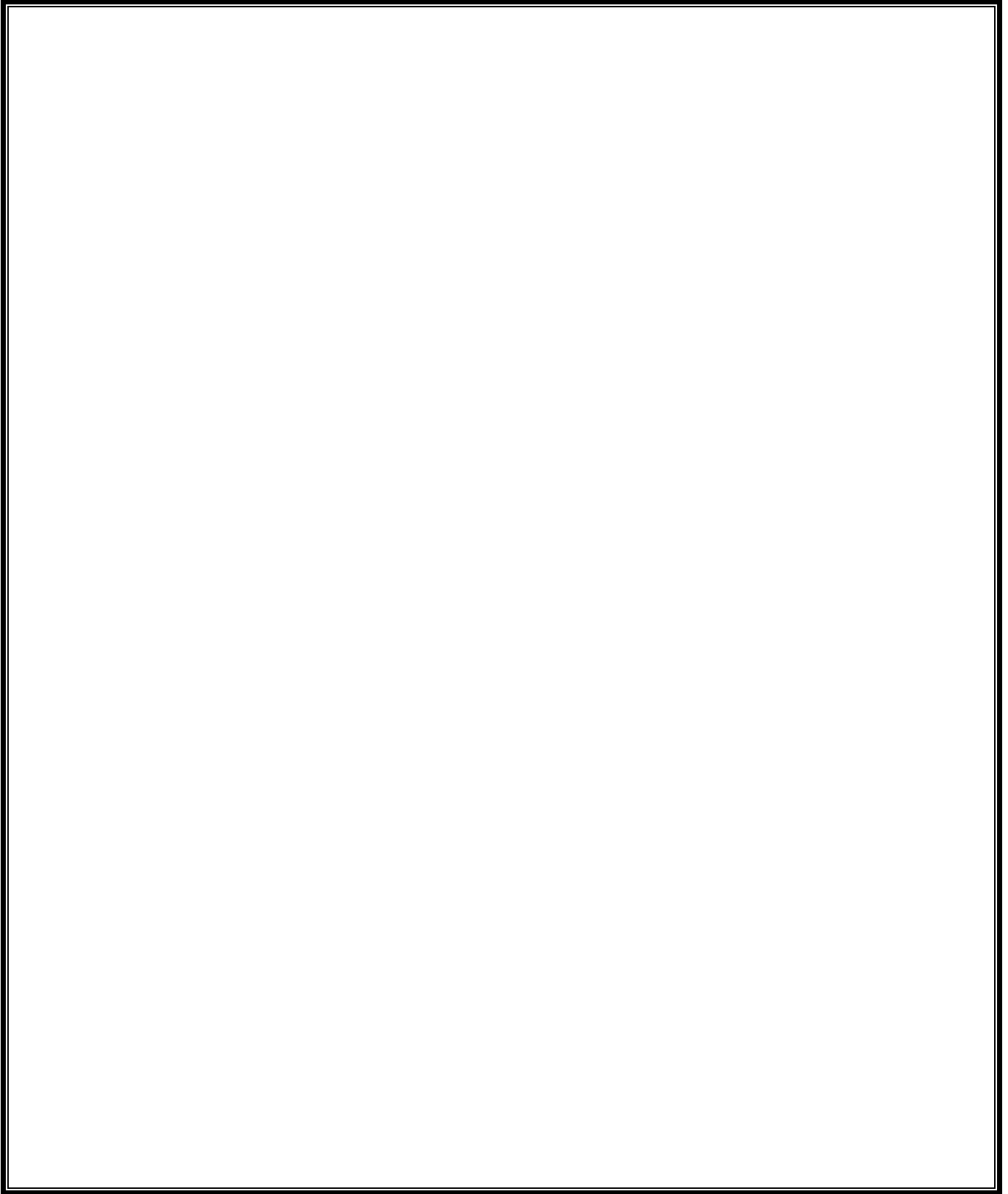
**FAA ASOS Request For Change (Number TBD)**





**FAA ASOS Request For Change (Number TBD)**

**TO BE COMPLETED**



## NWS CHANGE FORM PART A

1. DATE SUBMITTED

3/15/02

This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: [NWSRC@noaa.gov](mailto:NWSRC@noaa.gov)).

2. ORIGINATOR  
OFFICE Federal  
Aviation  
Administration  
Weather Sensors,  
AUA-430  
800 Independence  
Ave, S.W.  
Washington D.C.  
20591

3. SUBMITTING AUTHORITY  
Name: Steve Imbembo  
Routing Code: AUA-430

4. COGNIZANT TECHNICAL INDIVIDUAL  
Name: Bob Beatty  
Routing Code: AUA-430/CTA  
Phone: 202-554-6424

5. ORIGINATOR TRACKING  
NUMBER  
  
**FAA191**

6. SYSTEMS AFFECTED BY CHANGE

DATA PRODUCTS (Complete Data Products

Supplement)

|                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

X ASOS

X AWIPS

CRS

NEXRAD

OTHER (specify)

7. WSH TRACKING NUMBER

AA717  
(AWIPS: AA717)  
(DRG: AA798)

8. TITLE OF CHANGE

**Connect Twenty Nine NWS ASOS sites to ADAS for FY02.**

9. TYPE OF CHANGE

|                          |                          |                          |
|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|

X HARDWARE

SOFTWARE

DOCUMENTATION ONLY

10. SITES AFFECTED (Attach Part B, Page 2, if needed)

See attached list

11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.)

A memorandum of agreement between NWS and FAA stipulates that all NWS ASOS augmentation/backup responsibilities will be transferred to the FAA. The FAA requires that the ASOS have thunderstorm reporting. At unstaffed service level C and D sites the thunderstorm reporting will be provided by connection to ADAS and ALDARS.

12. KNOWN OR PROPOSED SOLUTION (Include source and description of new features or data products.)

The NWS will activate the ADAS port and configure the ASOS per Mod Note 45, Errata 1, to support either an external modem connection or an internal modem connection, to install a Codex modem in the ACU. See attached list of sites for internal or external modem connections. The FAA will order all telco circuits. The NWS will connect to the ASOS ACU. The NWS will disconnect the AWIPS circuit after the ADAS is connected. The NWS will revise all CM documents. The NWS will coordinate header changes with AWIPS and NWSTG. The FAA will notify WMSCR of the changes. Data product changes will be accomplished through a separate DRG change request.

13. ALTERNATE SOLUTIONS

None

14.  
REQUIRED  
CHANGE  
DATE  
ASAP

15. RATIONALE FOR REQUIRED CHANGE DATE (Include proposed priority, if known.)

All ASOS sites will be transitioned between March 25 and September 30, 2002.

# NWS CHANGE FORM

## PART A

1. DATE SUBMITTED  
3/15/02

This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: [NWSRC@noaa.gov](mailto:NWSRC@noaa.gov)).

2. ORIGINATOR OFFICE  
Federal Aviation Administration  
Weather Sensors, AUA-430  
800 Independence Ave, S.W.  
Washington D.C. 20591

3. SUBMITTING AUTHORITY  
Name: Steve Imbembo  
Routing Code: AUA-430

4. COGNIZANT TECHNICAL INDIVIDUAL  
Name: Bob Beatty  
Routing Code: AUA-430/CTA  
Phone: 202-554-6424

5. ORIGINATOR TRACKING NUMBER  
  
**FAA191**

6. SYSTEMS AFFECTED BY CHANGE  
DATA PRODUCTS (Complete Data Products Supplement)  
      
X ASOS      X AWIPS      CRS      NEXRAD      OTHER (specify)

7. WSH TRACKING NUMBER  
AA717  
(AWIPS: AA717)  
(DRG: AA798)

8. TITLE OF CHANGE  
**Connect Twenty Nine NWS ASOS sites to ADAS for FY02.**

9. TYPE OF CHANGE  
   X HARDWARE      SOFTWARE  
DOCUMENTATION ONLY

10. SITES AFFECTED (Attach Part B, Page 2, if needed)  
See attached list

11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.)  
  
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|                              |  |   |
|------------------------------|--|---|
| 16. DECISION AUTHORITY LEVEL | <input type="checkbox"/><br><input checked="" type="checkbox"/> CCB LEVEL ONLY | <input type="checkbox"/> PMC or NWS CMB DECISION REQUIRED |
| 17. CCB LEVEL DECISION       | <input type="checkbox"/><br><input checked="" type="checkbox"/> APPROVED       | SIGNATURE<br><i>R. C. Ahlberg Jr.</i>                     |

# NWS CHANGE FORM

## PART A

1. DATE SUBMITTED  
3/15/02

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OFFICE Federal  
Aviation  
Administration  
Weather Sensors,  
AUA-430  
800 Independence  
Ave, S.W.  
Washington D.C.  
20591

3. SUBMITTING AUTHORITY  
Name: Steve Imbembo  
Routing Code: AUA-430

4. COGNIZANT TECHNICAL INDIVIDUAL  
Name: Bob Beatty  
Routing Code: AUA-430/CTA  
Phone: 202-554-6424

5. ORIGINATOR TRACKING NUMBER  
  
**FAA191**

6. SYSTEMS AFFECTED BY CHANGE  
DATA PRODUCTS (Complete Data Products Supplement)  
      
X ASOS      X AWIPS      CRS      NEXRAD      OTHER (specify)

7. WSH TRACKING NUMBER  
AA717  
(AWIPS: AA717)  
(DRG: AA798)

8. TITLE OF CHANGE  
**Connect Twenty Nine NWS ASOS sites to ADAS for FY02.**

9. TYPE OF CHANGE  
   X HARDWARE      SOFTWARE  
DOCUMENTATION ONLY

10. SITES AFFECTED (Attach Part B, Page 2, if needed)  
See attached list

11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.)  
  
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DATE SIGNED  
*10 May 2002*

**FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED**

18. PMC OR NWS CMB DECISION

APPROVED  
 DISAPPROVED

SIGNATURE  
  
DATE SIGNED

# NWS CHANGE FORM

## PART A

1. DATE SUBMITTED  
3/15/02

This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: [NWSRC@noaa.gov](mailto:NWSRC@noaa.gov)).

2. ORIGINATOR  
OFFICE Federal  
Aviation  
Administration  
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AUA-430  
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Ave, S.W.  
Washington D.C.  
20591

3. SUBMITTING AUTHORITY  
Name: Steve Imbembo  
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4. COGNIZANT TECHNICAL INDIVIDUAL  
Name: Bob Beatty  
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5. ORIGINATOR TRACKING NUMBER  
  
**FAA191**

6. SYSTEMS AFFECTED BY CHANGE  
DATA PRODUCTS (Complete Data Products Supplement)  
      
X ASOS      X AWIPS      CRS      NEXRAD      OTHER (specify)

7. WSH TRACKING NUMBER  
AA717  
(AWIPS: AA717)  
(DRG: AA798)

8. TITLE OF CHANGE  
**Connect Twenty Nine NWS ASOS sites to ADAS for FY02.**

9. TYPE OF CHANGE  
   X HARDWARE      SOFTWARE  
DOCUMENTATION ONLY

10. SITES AFFECTED (Attach Part B, Page 2, if needed)  
See attached list

11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.)  
  
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The NWS will activate the ADAS port and configure the ASOS per Mod Note 45, Errata 1, to support either an external modem connection or an internal modem connection, to install a Codex modem in the ACU. See attached list of sites for internal or external modem connections. The FAA will order all telco circuits. The NWS will connect to the ASOS ACU. The NWS will disconnect the AWIPS circuit after the ADAS is connected. The NWS will revise all CM documents. The NWS will coordinate header changes with AWIPS and NWSTG. The FAA will notify WMSCR of the changes. Data product changes will be accomplished through a separate DRG change request.

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

## NWS CHANGE FORM PART B

1. ORIGINATOR TRACKING NUMBER

FAA191

All RC/ECP submissions must also address the following information. Indicate if any areas are unknown or do not apply. State why information is unknown and when it will be available. Attach extra pages if necessary, referencing each applicable subject.

2. WSH TRACKING NUMBER

AA717

### FUNDING INFORMATION

| Estimate costs and indicate known sources of funding. (Include travel time, installation time, administrative time, and software development time when applicable.)     | 3. SOURCE OF FUNDING | 4. TOTAL COST       |
|---|----------------------|---------------------|
|   |                      | \$7570.80           |
| 5. DEVELOPMENT COSTS (Estimate development costs)<br>N/A  |                      | AMOUNT              |
| 6. OPERATIONAL TEST AND EVALUATION COSTS (Estimate test and evaluation costs)<br>N/A  |                      | AMOUNT              |
| 7. PRODUCTION COSTS (Include acquisition, kit proofing, spares, delivery, and documentation costs)<br>Codex modems provided by the FAA, 9 SIO cards provided by the NWS | FAA ATP-310          | AMOUNT<br>\$ 955.80 |
| 8. COMMUNICATIONS SERVICE/CIRCUITS COSTS (Include installation and recurring costs)<br>By the FAA   | FAA ATP-310          | AMOUNT              |
| 9. IMPLEMENTATION SUPPORT COSTS (Include travel, installation, and administrative costs)<br>NWS to perform Mod Note 45, Errata 1, activities at 29 sites.               | FAA ATP-310          | AMOUNT<br>\$6615.00 |
| 9A. LIFE CYCLE SUPPORT COSTS (Less communications service/circuits)<br>None   |                      | AMOUNT              |

### SUPPORTING INFORMATION AND SCHEDULES

Provide detailed information needed to implement the requested change.

|   |   |
|---|---|
| 10. DEVELOPMENT STATUS/SCHEDULE (Major milestones such as Start, Beta Test, and OT&E)<br>None   | 11. PRODUCTION STATUS/SCHEDULE (Major milestones such as Solicitation, Contract Start Date, Delivery Date, Kit Proofing, etc.)<br>N/A |
| 12. IMPLEMENTATION/RETROFIT SCHEDULE<br><br>NLT August 30, 2002 to support transition of all sites by Sept. 30, 2002.   | 13. FACILITY INFORMATION (Attach facility drawings/plans.)<br>N/A   |
| 14. COMMUNICATIONS INSTALLED (Type required, who will order, and associated hardware required; attach Part B, Page 2, if needed.)<br>FAA will order 4-wire, leased circuits as required. Codex 3600 modems will be provided by FAA. | 15. COMMUNICATIONS SERVICE/CIRCUITS TO BE REMOVED<br>NWS AWIPS circuits   |
| 16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES (Include person or organization responsible for obtaining each)<br>None.   | 17. COORDINATION OF CHANGE WITH OTHER CHANGES<br>NWS will coordinate productheader changes with AWIPS & generate AWIPS RC if required |
|   |   |

18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED (Include part, serial, and document numbers. Attach Part B, Page 2, if needed.)  
ACU and telco circuits. Mod Note 45, Errata 1,.

19. STAFF RESOURCE IMPACTS (Skills and workload impact on maintainers, operators, and managers.)  
NWS to perform Mod 45, Errata 1, activities. FAA to order telco and connect ACU to telco or external Codex modem.

20. LOGISTICS IMPACTS (Include facilities, maintenance, training, and support equipment impacts.)  
None

21. OPERATIONAL IMPACTS (Include continuity and back up needs and plans.)  
None

22. ADDITIONAL MAJOR CHANGE ACTIVITIES (Include who will accomplish each of them and staff hours required.)  
None



# NWS CHANGE FORM

## PART C

1. ORIGINATOR TRACKING NUMBER  
FAA191

WSH is responsible for Part C, but submitters may complete sections that would help clarify the change requirement or the necessary implementation actions.

2. WSH TRACKING NUMBER  
AA717

### 3. CCB COST EVALUATION

NWS COST \$      FAA COST \$7570.80      DOD COST \$      OTHER AGENCY COST \$      TOTAL COST  
\$7570.80  
(SPECIFY) \_\_\_\_\_

### 4. IMPLEMENTATION DOCUMENTS REQUIRED

Engineering Modification Note      Software Release Notes      Other Document  
 (Specify) \_\_\_\_\_

ADDITIONAL IMPLEMENTATION INSTRUCTIONS (e.g., Implementation schedule, parts shipping instructions, equipment disposal procedures, additional documentation required, and status reporting instructions.) Include documentation, data input, notification vehicle, or specific action step required to verify completion of the implementation activity.

### 5. IMPLEMENTATION ACTIVITY REQUIRED

### 6. REQUIRED COMPLETION DATE

### 7. RESPONSIBLE PERSON AND OFFICE

### 8. DOCUMENT OR ACTION REQUIRED TO VERIFY COMPLETION

Coordinate and distribute implementation plan.

Develop and provide ADAS transition schedule to OPS22.

Purchase necessary hardware for Mod Kit 052. Revise modification note 45 to include the new sites. Distribute instructions and mod kits to technicians.

Arrange for user notifications of pending and completed program and site specific changes.

Coordinate the availability of a technician to install modems and configure the ADAS port (see Mod Note 45).

Coordinate the ordering of telco and the connection of the ADAS/ACU port to the ADAS modem.

Arrange for ASOS Operations and Monitoring Center (AOMC) cut over and testing at scheduled times for each site. Notify W/OPS35 when ADAS circuits are operational and transmitting reliably.

Ensure DRG activities are initiated to accomplish this change.

Ensure this change is reported to the WSH through the Engineering Management Reporting System (EMRS). Record modification note number 45 in Block 17a of the EMRS report.

Disconnect and cancel each AWIPS circuit upon notification change is implemented and data is acceptable.

Ensure OPS13 databases are updated to reflect baseline changes.

Dave Mannarano,  
W/OPS22 and

Jerry Kranz,  
FAA/AUA430

Al Wissman,  
W/OPS12

Dave Mannarano,  
W/OPS22

NWS Focal Points

Vaughn Yates, FAA  
AUA-430

Kevin Conaty,  
W/CIO12 vice  
OSO211

Anthony Robinson,  
W/OS12

NWS Focal Points

Herb Hawkins,  
W/CIO14

Michelle de  
Tommaso,  
W/OPS13



### Transition Sites Listing

The 37 NWS ASOS sites to be connected to the ADAS as part of the ASOS augmentation/  
/backup responsibility transition effort, as categorized as internal or external, are:

#### **INTERNAL (Codex modem installed in ASOS ACU)**

##### **SITES TBD**

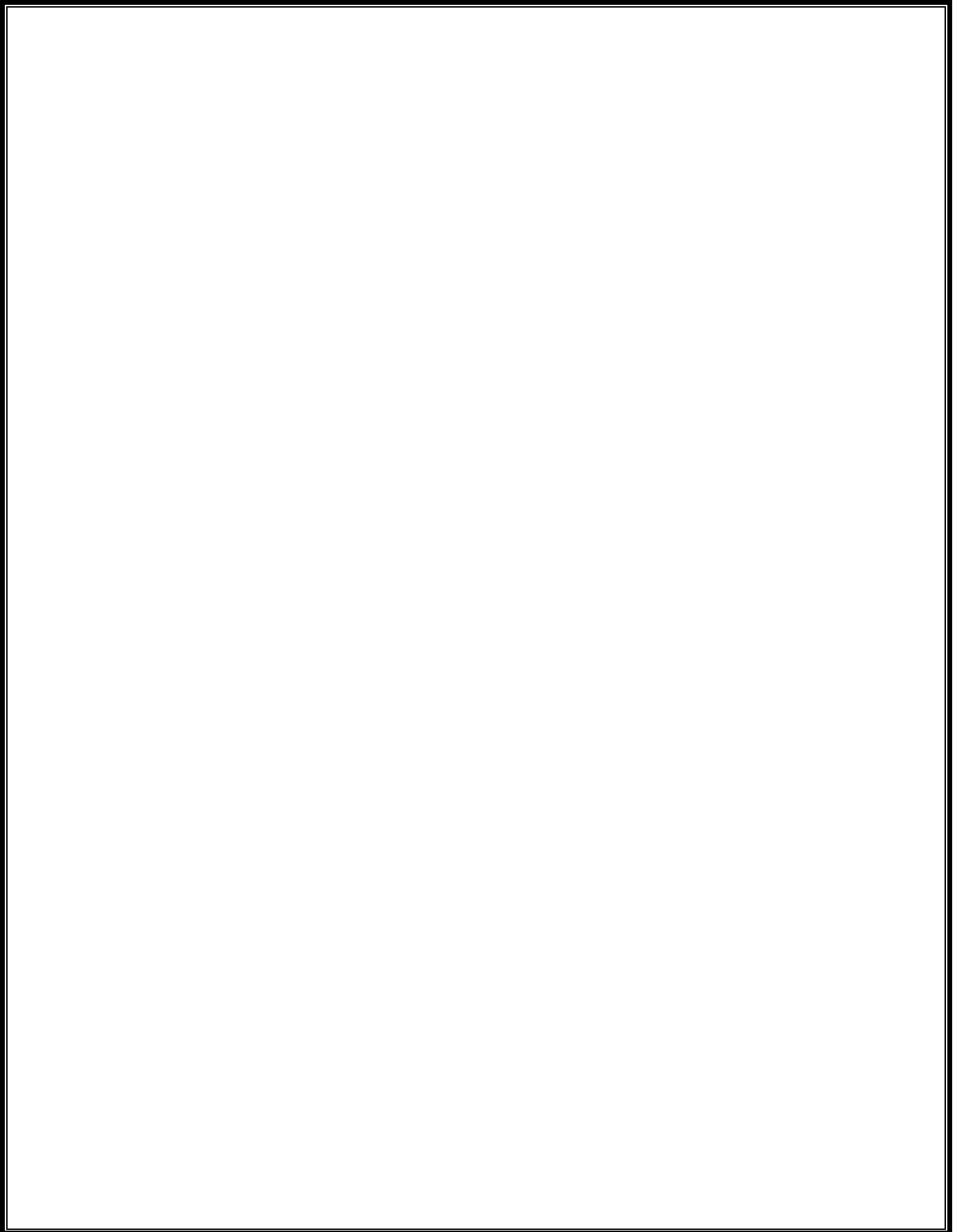
|     |                       |    |
|-----|-----------------------|----|
| AAF | Apalachicola          | FL |
| AKQ | Wakefield             | VA |
| ALS | Alamosa               | CO |
| AST | Astoria               | OR |
| AVP | Wilkes-Barre/Scranton | PA |
| BFF | Scottsbluff           | NE |
| CNK | Concordia             | KS |
| COS | Colorado Springs      | CO |
| COU | Columbia              | MO |
| DBQ | Dubuque               | IA |
| DRT | Del Rio               | TX |
| DSM | Des Moines            | IA |
| FCA | Kalispell             | MT |
| GCC | Gillette              | WY |
| GUY | Guymon                | OK |
| HVR | Havre                 | MT |
| ILN | Wilmington            | OH |
| INW | Winslow               | AZ |
| IRK | Kirksville            | MO |
| ISN | Williston             | ND |
| LGB | Long Beach            | CA |
| LIC | Limon                 | CO |
| LLJ | Challis               | ID |
| LNK | Lincoln               | NE |
| LWD | Lamoni                | IA |
| LWS | Lewiston              | ID |
| LYH | Lynchburg             | VA |
| MYL | McCall                | ID |
| OFK | Norfolk               | NE |
| PGA | Page                  | AZ |
| POF | Poplar Bluff          | MO |
| RIW | Riverton              | WY |
| RMG | Rome                  | GA |
| SHN | Shelton               | WA |
| STC | St. Cloud             | MN |
| VTN | Valentine             | NE |

|     |        |    |
|-----|--------|----|
| YKM | Yakima | WA |
|-----|--------|----|

**EXTERNAL (ASOS ACU connected to external, FAA-maintained Codex modem)**

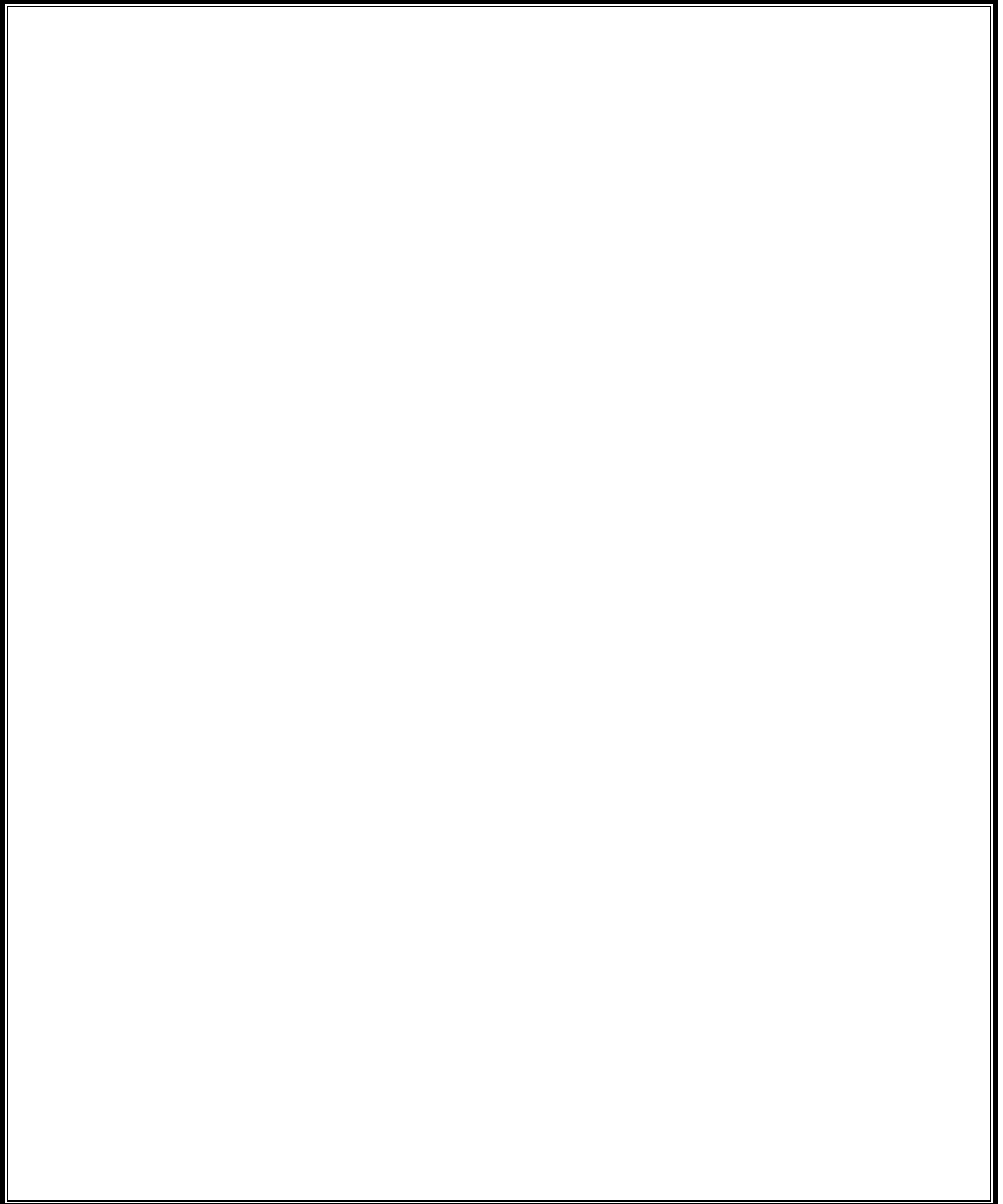
**SITES TBD**

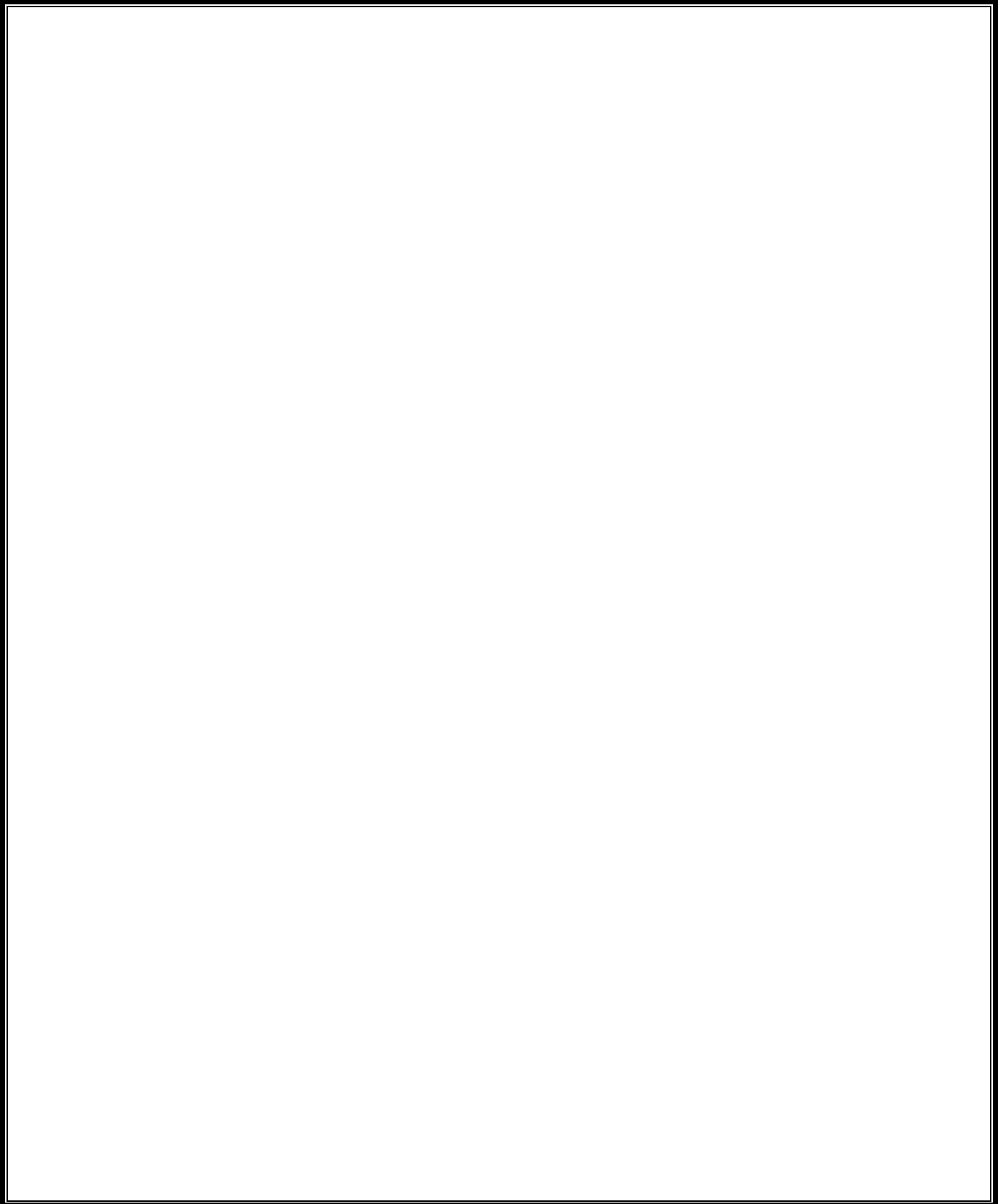
|     |                       |    |
|-----|-----------------------|----|
| AAF | Apalachicola          | FL |
| AKQ | Wakefield             | VA |
| ALS | Alamosa               | CO |
| AST | Astoria               | OR |
| AVP | Wilkes-Barre/Scranton | PA |
| BFF | Scottsbluff           | NE |
| CNK | Concordia             | KS |
| COS | Colorado Springs      | CO |
| COU | Columbia              | MO |
| DBQ | Dubuque               | IA |
| DRT | Del Rio               | TX |
| DSM | Des Moines            | IA |
| FCA | Kalispell             | MT |
| GCC | Gillette              | WY |
| GUY | Guymon                | OK |
| HVR | Havre                 | MT |
| ILN | Wilmington            | OH |
| INW | Winslow               | AZ |
| IRK | Kirksville            | MO |
| ISN | Williston             | ND |
| LGB | Long Beach            | CA |
| LIC | Limon                 | CO |
| LLJ | Challis               | ID |
| LNK | Lincoln               | NE |
| LWD | Lamoni                | IA |
| LWS | Lewiston              | ID |
| LYH | Lynchburg             | VA |
| MYL | McCall                | ID |
| OFK | Norfolk               | NE |
| PGA | Page                  | AZ |
| POF | Poplar Bluff          | MO |
| RIW | Riverton              | WY |
| RMG | Rome                  | GA |
| SHN | Shelton               | WA |
| STC | St. Cloud             | MN |
| VTN | Valentine             | NE |
| YKM | Yakima                | WA |



# **Appendix III**

## **ASOS Communications Transition Schedules**





# Appendix III

## ASOS Communications Transition Schedules

### ASOS TO ADAS TRANSITION SCHEDULE

#### AWIPS

| FAA SID<br>SVC<br>LVL | LOCATION     | NWS<br>RGN | FAA<br>RGN | FAA<br>TRAINING<br>COMPLETE | ADAS/<br>ALDARS<br>ACTIVE | FAA<br>ASSUMES<br>AUG/BACKUP<br>or<br>SVC LVL D<br>UNATTENDED | DECONFIG<br>&<br>COMMS<br>DEACTIV<br>NOTICE<br>ISSUED |
|-----------------------|--------------|------------|------------|-----------------------------|---------------------------|---|---|
| D KAAF                | APALACHICOLA | FL         | SRH        | ASO                         | n/a                       | TBD   | TBD   |
| D KAKQ                | WAKEFIELD    | VA         | ERH        | AEA                         | n/a                       | TBD   | TBD   |
| D KALS                | ALAMOSA      | CO         | CRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KAST                | ASTORIA      | OR         | WRH        | ANM                         | n/a                       | TBD   | TBD   |
| C KAVP                | SCRANTON     | PA         | ERH        | AEA                         | TBD                       | TBD   | TBD   |
| D KBFF                | SCOTTSBLUFF  | NE         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| D KCNK                | CONCORDIA    | KS         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| B KCOS                | CO. SPRINGS  | CO         | CRH        | ANM                         | TBD                       | TBD   | TBD   |
| C KCOU                | COLUMBIA     | MO         | CRH        | ACE                         | TBD                       | TBD   | TBD   |
| C KDBQ                | DUBUQUE      | IA         | CRH        | ACE                         | TBD                       | TBD   | TBD   |
| D KDRT                | DEL RIO      | TX         | SRH        | ASW                         | n/a                       | TBD   | TBD   |
| A KDSM                | DES MOINES   | IA         | CRH        | ACE                         | TBD                       | TBD   | TBD   |
| D KFCA                | KALISPELL    | MT         | WRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KGCC                | GILLETTE     | WY         | CRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KGUY                | GUYMON       | OK         | SRH        | ASW                         | n/a                       | TBD   | TBD   |
| D KHVR                | HAVRE        | MT         | WRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KILN                | WILMINGTON   | OH         | ERH        | AGL                         | n/a                       | TBD   | TBD   |
| D KINW                | WINSLOW      | AZ         | WRH        | AWP                         | n/a                       | TBD   | TBD   |
| D KIRK                | KIRKSVILLE   | MO         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| D KISN                | WILLISTON    | ND         | CRH        | AGL                         | n/a                       | TBD   | TBD   |
| C KLGB                | LONG BEACH   | CA         | WRH        | AWP                         | TBD                       | TBD   | TBD   |
| D KLIC                | LIMON        | CO         | CRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KLLJ                | CHALLIS      | ID         | WRH        | ANM                         | n/a                       | TBD   | TBD   |
| C KLNK                | LINCOLN      | NE         | CRH        | ACE                         | TBD                       | TBD   | TBD   |
| D KLWD                | LAMONI       | IA         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| C KLWS                | LEWISTON     | ID         | WRH        | ANM                         | TBD                       | TBD   | TBD   |
| C KLYH                | LYNCHBURG    | VA         | ERH        | AEA                         | TBD                       | TBD   | TBD   |

TBD = To Be Determined



n/a = not applicable

ASOS TO ADAS TRANSITION SCHEDULE

AWIPS

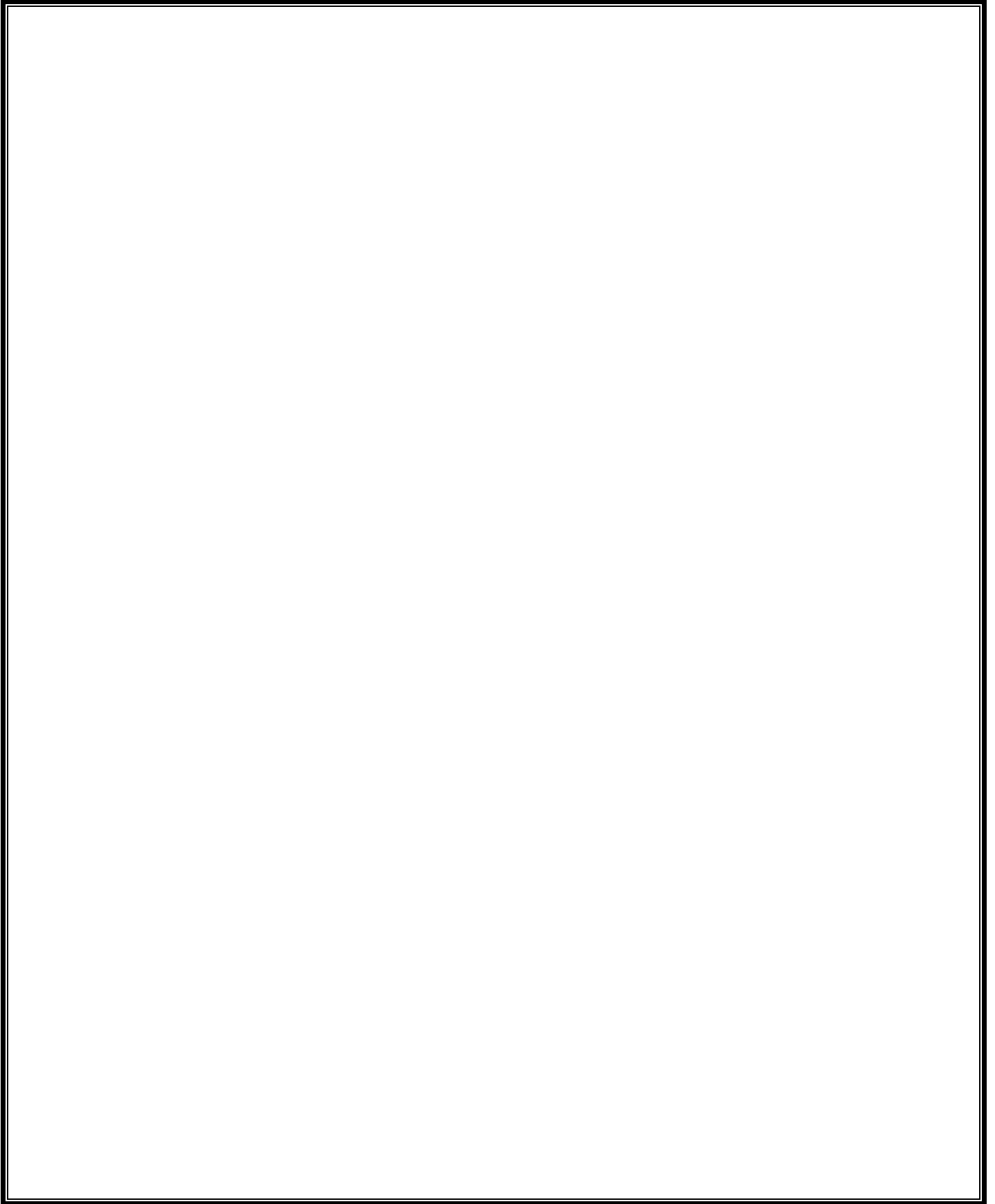
| FAA SID<br>SVC<br>LVL | LOCATION     | NWS<br>RGN | FAA<br>RGN | FAA<br>TRAINING<br>COMPLETE | ADAS/<br>ALDARS<br>ACTIVE | FAA<br>ASSUMES<br>AUG/BACKUP<br>or<br>SVC LVL D<br>UNATTENDED | DECONFIG<br>&<br>COMMS<br>DEACTIV<br>NOTICE<br>ISSUED |
|-----------------------|--------------|------------|------------|-----------------------------|---------------------------|---|---|
| D KMYL                | MCCALL       | ID         | WRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KOFK                | NORFOLK      | NE         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| D KPGA                | PAGE         | AZ         | WRH        | AWP                         | n/a                       | TBD   | TBD   |
| D KPOF                | POPLAR BLUFF | MO         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| D KRIW                | RIVERTON     | WY         | CRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KRMG                | ROME         | GA         | SRH        | ASO                         | n/a                       | TBD   | TBD   |
| D KSHN                | SHELTON      | WA         | WRH        | ANM                         | n/a                       | TBD   | TBD   |
| D KSTC                | ST. CLOUD    | MN         | CRH        | AGL                         | n/a                       | TBD   | TBD   |
| D KVTN                | VALENTINE    | NE         | CRH        | ACE                         | n/a                       | TBD   | TBD   |
| C KYKM                | YAKIMA       | WA         | WRH        | ANM                         | TBD                       | TBD   | TBD   |

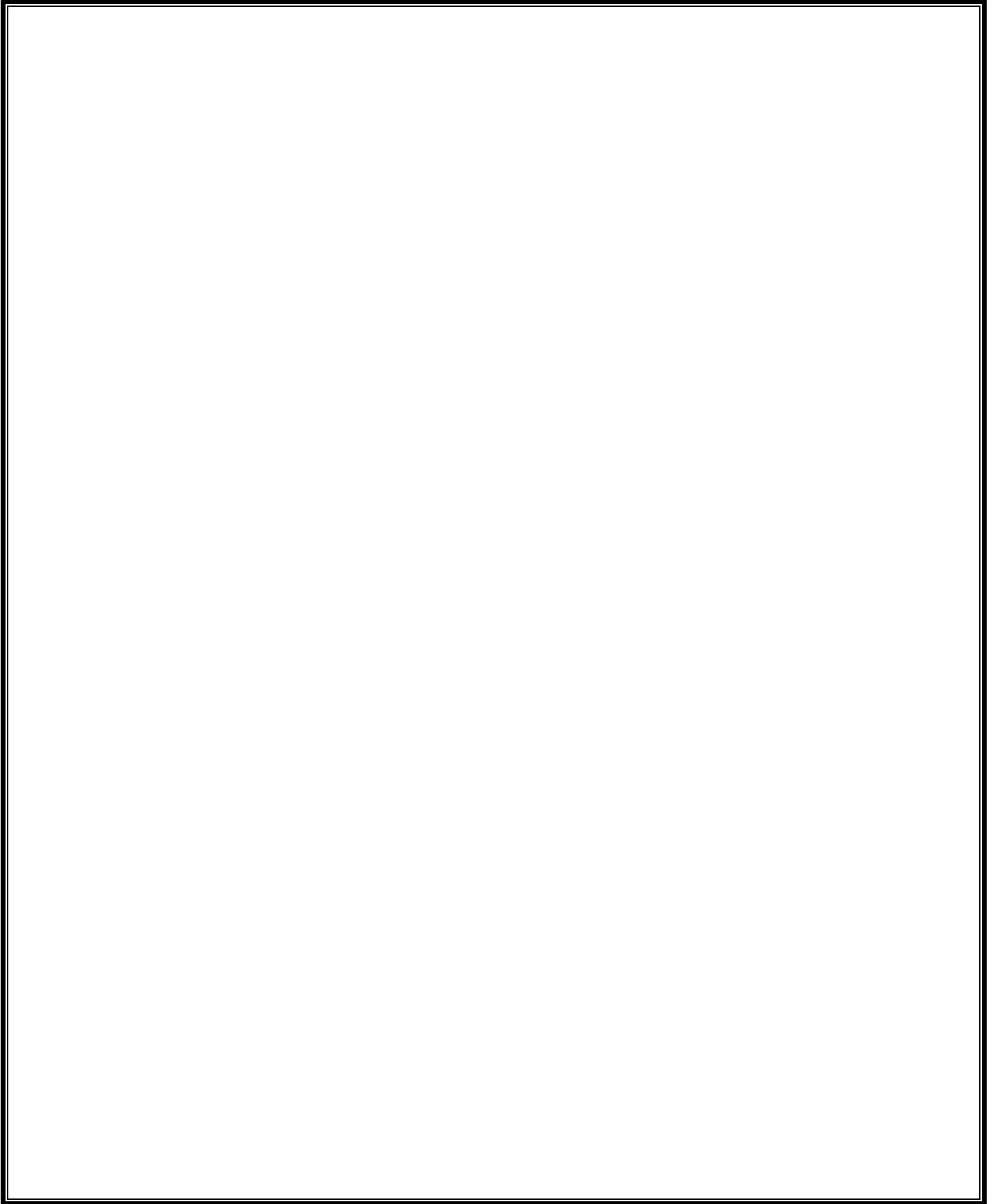
TBD = To Be Determined

n/a = not applicable

## Appendix IV

### ASOS Collective Message Headers







## Appendix IV

### ASOS MESSAGE HEADERS

#### ASOS TO ADAS TRANSITION WMO COMMUNICATION HEADERS

##### METAR MESSAGES

| ASOS<br>SID | WMO HEADER<br>CURRENT | WMO COLLECTIVE<br>CURRENT | NEW COLLECTIVE |
|-------------|-----------------------|---------------------------|----------------|
| KAAF        | SAUS42 KTAE           | SAUS80 KWBC               | SAUS70 KWBC    |
| KAKQ        | SAUS41 KAKQ           | SAUS80 KWBC               | SAUS70 KWBC    |
| KALS        | SAUS45 KPUB           | SAUS80 KWBC               | SAUS70 KWBC    |
| KAST        | SAUS46 KPQR           | SAUS80 KWBC               | SAUS70 KWBC    |
| KAVP        | SAUS41 KBGM           | SAUS80 KWBC               | SAUS70 KWBC    |
| KBFF        | SAUS43 KOAX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KCNK        | SAUS43 KTOP           | SAUS80 KWBC               | SAUS70 KWBC    |
| KCOS        | SAUS45 KPUB           | SAUS80 KWBC               | SAUS70 KWBC    |
| KCOU        | SAUS43 KLSX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KDBQ        | SAUS43 KDMX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KDRT        | SAUS44 KEWX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KDSM        | SAUS43 KDMX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KFCA        | SAUS45 KMSO           | SAUS80 KWBC               | SAUS70 KWBC    |
| KGCC        | SAUS45 KCYS           | SAUS80 KWBC               | SAUS70 KWBC    |
| KGUY        | SAUS44 KOUN           | SAUS80 KWBC               | SAUS70 KWBC    |
| KHVR        | SAUS45 KTFX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KILN        | SAUS41 KILN           | SAUS80 KWBC               | SAUS70 KWBC    |
| KINW        | SAUS45 KFGZ           | SAUS80 KWBC               | SAUS70 KWBC    |
| KIRK        | SAUS43 KEAX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KISN        | SAUS43 KBIS           | SAUS80 KWBC               | SAUS70 KWBC    |
| KLGB        | SAUS46 KLOX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KLIC        | SAUS45 KBOU           | SAUS80 KWBC               | SAUS70 KWBC    |
| LLLJ        | SAUS45 KPIH           | SAUS80 KWBC               | SAUS70 KWBC    |
| KLNK        | SAUS43 KOAX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KLWD        | SAUS43 KDMX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KLWS        | SAUS45 KBOI           | SAUS80 KWBC               | SAUS70 KWBC    |
| KLYH        | SAUS41 KRNK           | SAUS80 KWBC               | SAUS70 KWBC    |
| KMYL *      | SAUS45 KBOI           | SAUS80 KWBC               | SAUS70 KWBC    |
| KOFK        | SAUS43 KOAX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KPGA        | SAUS45 KPSR           | SAUS80 KWBC               | SAUS70 KWBC    |
| KPOF        | SAUS43 KLSX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KRIW        | SAUS45 KRIW           | SAUS80 KWBC               | SAUS70 KWBC    |
| KRMG        | SAUS42 KFFC           | SAUS80 KWBC               | SAUS70 KWBC    |
| KSHN        | SAUS46 KSEW           | SAUS80 KWBC               | SAUS70 KWBC    |
| KSTC        | SAUS43 KMPX           | SAUS80 KWBC               | SAUS70 KWBC    |

KVTN SAUS43 KLBF SAUS80 KWBC SAUS70 KWBC  
 KYKM SAUS46 KSEW SAUS80 KWBC SAUS70 KWBC  
 \* OLD WMO Header did not exist

**SPECI MESSAGES**

| ASOS<br>SID | WMO HEADER<br>CURRENT | WMO COLLECTIVE<br>CURRENT | NEW COLLECTIVE |
|-------------|-----------------------|---------------------------|----------------|
| KAAF        | SPUS42 KTAE           | SPUS80 KWBC               | SPUS70 KWBC    |
| KAKQ        | SPUS41 KAKQ           | SPUS80 KWBC               | SPUS70 KWBC    |
| KALS        | SPUS45 KPUB           | SPUS80 KWBC               | SPUS70 KWBC    |
| KAST        | SPUS46 KPQR           | SPUS80 KWBC               | SPUS70 KWBC    |
| KAVP        | SAUS41 KBGM           | SAUS80 KWBC               | SAUS70 KWBC    |
| KBBF        | SPUS43 KOAX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KCNK        | SPUS43 KTOP           | SPUS80 KWBC               | SPUS70 KWBC    |
| KCOS        | SPUS45 KPUB           | SPUS80 KWBC               | SPUS70 KWBC    |
| KCOU        | SPUS43 KLSX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KDBQ        | SPUS43 KDMX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KDRT        | SPUS44 KEWX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KDSM        | SPUS43 KDMX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KFCA        | SPUS45 KMSO           | SPUS80 KWBC               | SPUS70 KWBC    |
| KGCC        | SPUS45 KCYS           | SPUS80 KWBC               | SPUS70 KWBC    |
| KGUY        | SPUS44 KOUN           | SPUS80 KWBC               | SPUS70 KWBC    |
| KHVR        | SPUS45 KTFX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KILN        | SPUS41 KILN           | SPUS80 KWBC               | SPUS70 KWBC    |
| KINW        | SPUS45 KFGZ           | SPUS80 KWBC               | SPUS70 KWBC    |
| KIRK        | SPUS43 KEAX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KISN        | SPUS43 KBIS           | SPUS80 KWBC               | SPUS70 KWBC    |
| KLGB        | SPUS46 KLOX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KLIC        | SPUS45 KBOU           | SPUS80 KWBC               | SPUS70 KWBC    |
| KLLJ        | SPUS45 KPIH           | SPUS80 KWBC               | SPUS70 KWBC    |
| 8KLNK       | SPUS43 KOAX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KLWD        | SPUS43 KDMX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KLWS        | SPUS45 KBOI           | SPUS80 KWBC               | SPUS70 KWBC    |
| KLYH        | SPUS41 KRNK           | SPUS80 KWBC               | SPUS70 KWBC    |
| KMYL *      | SPUS45 KBOI           | SPUS80 KWBC               | SPUS70 KWBC    |
| KOFK        | SPUS43 KOAX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KPGA        | SPUS45 KPSR           | SPUS80 KWBC               | SPUS70 KWBC    |
| KPOF        | SPUS43 KLSX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KRIW        | SPUS45 KRIW           | SPUS80 KWBC               | SPUS70 KWBC    |
| KRMG        | SPUS42 KFFC           | SPUS80 KWBC               | SPUS70 KWBC    |
| KSHN        | SPUS46 KSEW           | SPUS80 KWBC               | SPUS70 KWBC    |
| KSTC        | SPUS43 KMPX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KVTN        | SPUS43 KMPX           | SPUS80 KWBC               | SPUS70 KWBC    |
| KYKM        | SPUS46 KSEW           | SPUS80 KWBC               | SPUS70 KWBC    |

\* Old WMO Header did not exist

**ASOS SHEF PRECIP CRITERIA MESSAGE**

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL   | FAA HUB        |
|-------------|-------------------|-------------------|-----------|----------------|
| KAAF        | SRUS62 KTAE       | SRUS27 KZJX       | NKARR7ZJX | JACKSONVILLE   |
| KAKQ        | SRUS61 KAKQ       | SRUS27 KZDC       | NKARR7ZDC | WASHINGTON     |
| KALS *      | SRUS65 KPUB       | SRUS27 KZDV       | NKARR7ZDV | DENVER         |
| KAST *      | SRUS66 KPQR       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE        |
| KAVP        | SRUS61 KBGM       | SRUS27 KZNY       | NKARR7ZNY | NEW YORK CITY  |
| KBFF        | SRUS63 KOAX       | SRUS27 KZDV       | NKARR7ZDV | DENVER         |
| KCNK        | SRUS63 KTOP       | SRUS27 KZKC       | NKARR7ZKC | KANSAS CITY    |
| KCOS        | SRUS65 KPUB       | SRUS27 KZDV       | NKARR7ZDV | DENVER         |
| KCOU        | SRUS63 KLSX       | SRUS27 KZKC       | NKARR7ZKC | KANSAS CITY    |
| KDBQ        | SRUS63 KDMX       | SRUS27 KZAU       | NKARR7ZAU | CHICAGO        |
| KDRT        | SRUS64 KEWX       | SRUS27 KZHN       | NKARR7ZHN | HOUSTON        |
| KDSM        | SRUS63 KDMX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS    |
| KFCA        | SRUS65 KMSO       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE CITY |
| KGCC        | SRUS65 KCYS       | SRUS27 KZDV       | NKARR7ZDV | DENVER         |
| KGUY        | SRUS64 KOUN       | SRUS27 KZKC       | NKARR7ZKC | KANSAS CITY    |
| KHVR        | SRUS65 KTFX       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE CITY |
| KILN *      | SRUS61 KILN       | SRUS27 KZID       | NKARR7ZID | INDIANAPOLIS   |
| KINW        | SRUS65 KFGZ       | SRUS27 KZAB       | NKARR7ZAB | ALBUQUERQUE    |
| KIRK        | SRUS63 KEAX       | SRUS27 KZKC       | NKARR7ZKC | KANSAS CITY    |
| KISN        | SRUS63 KBIS       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS    |
| KLGB        | SRUS66 KLOX       | SRUS27 KZLA       | NKARR7ZLA | LOS ANGELES    |
| KLIC        | SRUS65 KBOU       | SRUS27 KZDV       | NKARR7ZDV | DENVER         |
| KLLJ *      | SRUS65 KPIH       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE CITY |
| KLNK        | SRUS63 KOAX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS    |
| KLWD        | SRUS63 KDMX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS    |
| KLWS        | SRUS65 KBOI       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE        |
| KLYH        | SRUS61 KRNK       | SRUS27 KZDC       | NKARR7ZDC | WASHINGTON     |
| KMYL *      | SRUS65 KBOI       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE CITY |
| KOFK        | SRUS63 KOAX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS    |
| KPGA        | SRUS65 KPSR       | SRUS27 KZDV       | NKARR7ZDV | DENVER         |
| KPOF        | SRUS63 KLSX       | SRUS27 KZME       | NKARR7ZME | MEMPHIS        |
| KRIW        | SRUS65 KRIW       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE CITY |
| KRMG        | SRUS62 KFFC       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA        |
| KSHN *      | SRUS66 KSEW       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE        |
| KSTC        | SRUS63 KMPX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS    |



|      |        |      |        |      |           |         |
|------|--------|------|--------|------|-----------|---------|
| KVTN | SRUS63 | KLBF | SRUS27 | KZDV | NKARR7ZDV | DENVER  |
| KYKM | SRUS66 | KSEW | SRUS27 | KZSE | NKARR7ZSE | SEATTLE |

\* OLD WMO Header did not exist

**ASOS SHEF HOURLY ROUTINE MESSAGE**

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL     | FAA HUB   |                |
|-------------|-------------------|-------------------|-------------|-----------|----------------|
| KAAF        | SRUS72            | KTAE              | SRUS27 KZJX | NKARR7ZJX | JACKSONVILLE   |
| KAKQ        | SRUS71            | KAKQ              | SRUS27 KZDC | NKARR7ZDC | WASHINGTON     |
| KALS *      | SRUS75            | KPUB              | SRUS27 KZDV | NKARR7ZDV | DENVER         |
| KAST *      | SRUS76            | KPQR              | SRUS27 KZSE | NKARR7ZSE | SEATTLE        |
| KAVP        | SRUS71            | KBGM              | SRUS27 KZNY | NKARR7ZNY | NEW YORK CITY  |
| KBFF        | SRUS73            | KOAX              | SRUS27 KZDV | NKARR7ZDV | DENVER         |
| KCNK        | SRUS73            | KTOP              | SRUS27 KZKC | NKARR7ZKC | KANSAS CITY    |
| KCOS        | SRUS75            | KPUB              | SRUS27 KZDV | NKARR7ZDV | DENVER         |
| KCOU        | SRUS73            | KLSX              | SRUS27 KZKC | NKARR7ZKC | KANSAS CITY    |
| KDBQ        | SRUS73            | KDMX              | SRUS27 KZAU | NKARR7ZAU | CHICAGO        |
| KDRT        | SRUS74            | KEWX              | SRUS27 KZHN | NKARR7ZHN | HOUSTON        |
| KDSM        | SRUS73            | KDMX              | SRUS27 KZMP | NKARR7ZMP | MINNEAPOLIS    |
| KFCA        | SRUS75            | KMSO              | SRUS27 KZLC | NKARR7ZLC | SALT LAKE CITY |
| KGCC        | SRUS75            | KCYS              | SRUS27 KZDV | NKARR7ZDV | DENVER         |
| KGUY        | SRUS74            | KOUN              | SRUS27 KZKC | NKARR7ZKC | KANSAS CITY    |
| KHVR        | SRUS75            | KTFX              | SRUS27 KZLC | NKARR7ZLC | SALT LAKE CITY |
| KILN *      | SRUS71            | KILN              | SRUS27 KZID | NKARR7ZID | INDIANAPOLIS   |
| KINW        | SRUS75            | KFGZ              | SRUS27 KZAB | NKARR7ZAB | ALBUQUERQUE    |
| KIRK        | SRUS73            | KEAX              | SRUS27 KZKC | NKARR7ZKC | KANSAS CITY    |
| KISN        | SRUS73            | KBIS              | SRUS27 KZMP | NKARR7ZMP | MINNEAPOLIS    |
| KLGB        | SRUS76            | KLOX              | SRUS27 KZLA | NKARR7ZLA | LOS ANGELES    |
| KLIC        | SRUS75            | KBOU              | SRUS27 KZDV | NKARR7ZDV | DENVER         |
| KLLJ *      | SRUS75            | KPIH              | SRUS27 KZLC | NKARR7ZLC | SALT LAKE CITY |
| KLNK        | SRUS73            | KOAX              | SRUS27 KZMP | NKARR7ZMP | MINNEAPOLIS    |
| KLWD        | SRUS73            | KDMX              | SRUS27 KZMP | NKARR7ZMP | MINNEAPOLIS    |
| KLWS        | SRUS75            | KBOI              | SRUS27 KZSE | NKARR7ZSE | SEATTLE        |
| KLYH        | SRUS71            | KRNK              | SRUS27 KZDC | NKARR7ZDC | WASHINGTON     |
| KMYL *      | SRUS75            | KBOI              | SRUS27 KZLC | NKARR7ZLC | SALT LAKE CITY |
| KOFK        | SRUS73            | KOAX              | SRUS27 KZMP | NKARR7ZMP | MINNEAPOLIS    |
| KPGA        | SRUS75            | KPSR              | SRUS27 KZDV | NKARR7ZDV | DENVER         |
| KPOF        | SRUS73            | KLSX              | SRUS27 KZME | NKARR7ZME | MEMPHIS        |
| KRIW        | SRUS75            | KRIW              | SRUS27 KZLC | NKARR7ZLC | SALT LAKE CITY |

|        |        |      |        |      |           |             |
|--------|--------|------|--------|------|-----------|-------------|
| KRMG   | SRUS72 | KFFC | SRUS27 | KZTL | NKARR7ZTL | ATLANTA     |
| KSHN * | SRUS76 | KSEW | SRUS27 | KZSE | NKARR7ZSE | SEATTLE     |
| KSTC   | SRUS73 | KMPX | SRUS27 | KZMP | NKARR7ZMP | MINNEAPOLIS |
| KVTN   | SRUS73 | KLBF | SRUS27 | KZDV | NKARR7ZDV | DENVER      |
| KYKM   | SRUS76 | KSEW | SRUS27 | KZSE | NKARR7ZSE | SEATTLE     |

\* OLD WMO Header did not exist

### ASOS DAILY SUMMARY

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL     | FAA HUB   |                |
|-------------|-------------------|-------------------|-------------|-----------|----------------|
| KAAF        | CXUS42            | KTAE              | CDUS27 KZJX | NKADSMZJX | JACKSONVILLE   |
| KAKQ        | CXUS41            | KAKQ              | CDUS27 KZDC | NKADSMZDC | WASHINGTON     |
| KALS *      | CXUS45            | KPUB              | CDUS27 KZDV | NKADSMZDV | DENVER         |
| KAST        | CXUS46            | KPQR              | CDUS27 KZSE | NKADSMZSE | SEATTLE        |
| KAVP        | CXUS41            | KBGM              | CDUS27 KZNY | NKADSMZNY | NEW YORK CITY  |
| KBFF        | CXUS43            | KOAX              | CDUS27 KZDV | NKADSMZDV | DENVER         |
| KCNK        | CXUS43            | KTOP              | CDUS27 KZKC | NKADSMZKC | KANSAS CITY    |
| KCOS        | CXUS45            | KPUB              | CDUS27 KZDV | NKADSMZDV | DENVER         |
| KCOU        | CXUS43            | KLSX              | CDUS27 KZKC | NKADSMZKC | KANSAS CITY    |
| KDBQ        | CXUS43            | KDMX              | CDUS27 KZAU | NKADSMZAU | CHICAGO        |
| KDRT        | CXUS44            | KEWX              | CDUS27 KZHN | NKADSMZHN | HOUSTON        |
| KDSM        | CXUS43            | KDMX              | CDUS27 KZMP | NKADSMZMP | MINNEAPOLIS    |
| KFCA        | CXUS45            | KMSO              | CDUS27 KZLC | NKADSMZLC | SALT LAKE CITY |
| KGCC        | CXUS45            | KCYS              | CDUS27 KZDV | NKADSMZDV | DENVER         |
| KGUY        | CXUS44            | KOUN              | CDUS27 KZKC | NKADSMZKC | KANSAS CITY    |
| KHVR *      | CXUS45            | KTFX              | CDUS27 KZLC | NKADSMZLC | SALT LAKE CITY |
| KILN *      | CXUS41            | KILN              | CDUS27 KZID | NKADSMZID | INDIANAPOLIS   |
| KINW        | CXUS45            | KFGZ              | CDUS27 KZAB | NKADSMZAB | ALBUQUERQUE    |
| KIRK        | CXUS43            | KEAX              | CDUS27 KZKC | NKADSMZKC | KANSAS CITY    |
| KISN        | CXUS43            | KBIS              | CDUS27 KZMP | NKADSMZMP | MINNEAPOLIS    |
| KLGB        | CXUS46            | KLOX              | CDUS27 KZLA | NKADSMZLA | LOS ANGELES    |
| KLIC        | CXUS45            | KBOU              | CDUS27 KZDV | NKADSMZDV | DENVER         |
| KLLJ *      | CXUS45            | KPIH              | CDUS27 KZLC | NKADSMZLC | SALT LAKE CITY |
| KLNK        | CXUS43            | KOAX              | CDUS27 KZMP | NKADSMZMP | MINNEAPOLIS    |
| KLWD        | CXUS43            | KDMX              | CDUS27 KZMP | NKADSMZMP | MINNEAPOLIS    |
| KLWS        | CXUS45            | KBOI              | CDUS27 KZSE | NKADSMZSE | SEATTLE        |

|      |        |        |        |        |           |                |                |
|------|--------|--------|--------|--------|-----------|----------------|----------------|
| KLYH | CXUS41 | KRNK   | CDUS27 | KZDC   | NKADSMZDC | WASHINGTON     |                |
| KMYL | *      | CXUS45 | KBOI   | CDUS27 | KZLC      | NKADSMZLC      | SALT LAKE CITY |
| KOFK | CXUS43 | KOAX   | CDUS27 | KZMP   | NKADSMZMP | MINNEAPOLIS    |                |
| KPGA | CXUS45 | KPSR   | CDUS27 | KZDV   | NKADSMZDV | DENVER         |                |
| KPOF | CXUS43 | KLSX   | CDUS27 | KZME   | NKADSMZME | MEMPHIS        |                |
| KRIW | CXUS45 | KRIW   | CDUS27 | KZLC   | NKADSMZLC | SALT LAKE CITY |                |
| KRMG | CXUS42 | KFFC   | CDUS27 | KZTL   | NKADSMZTL | ATLANTA        |                |
| KSHN | *      | CXUS46 | KSEW   | CDUS27 | KZSE      | NKADSMZSE      | SEATTLE        |
| KSTC | CXUS43 | KMPX   | CDUS27 | KZMP   | NKADSMZMP | MINNEAPOLIS    |                |
| KVTN | CXUS43 | KLBF   | CDUS27 | KZDV   | NKADSMZDV | DENVER         |                |
| KYKM | CXUS46 | KSEW   | CDUS27 | KZSE   | NKADSMZSE | SEATTLE        |                |

\* OLD WMO Header did not exist

#### ASOS MONTHLY SUMMARY MESSAGE

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL | FAA HUB |           |                |                |
|-------------|-------------------|-------------------|---------|---------|-----------|----------------|----------------|
| KAAF        | CSUS42            | KTAE              | CSUS27  | KZJX    | NKAMSMZJX | JACKSONVILLE   |                |
| KAKQ        | CSUS41            | KAKQ              | CSUS27  | KZDC    | NKAMSMZDC | WASHINGTON     |                |
| KALS        | *                 | CSUS45            | KPUB    | CSUS27  | KZDV      | NKAMSMZDV      | DENVER         |
| KAST        | CSUS46            | KPQR              | CSUS27  | KZSE    | NKAMSMZSE | SEATTLE        |                |
| KAVP        | CSUS41            | KBGM              | CSUS27  | KZNY    | NKAMSMZNY | NEW YORK CITY  |                |
| KBFF        | CSUS43            | KOAX              | CSUS27  | KZDV    | NKAMSMZDV | DENVER         |                |
| KCNK        | CSUS43            | KTOP              | CSUS27  | KZKC    | NKAMSMZKC | KANSAS CITY    |                |
| KCOS        | CSUS45            | KPUB              | CSUS27  | KZDV    | NKAMSMZDV | DENVER         |                |
| KCOU        | CSUS43            | KLSX              | CSUS27  | KZKC    | NKAMSMZKC | KANSAS CITY    |                |
| KDBQ        | CSUS43            | KDMX              | CSUS27  | KZAU    | NKAMSMZAU | CHICAGO        |                |
| KDRT        | CSUS44            | KEWX              | CSUS27  | KZHN    | NKAMSMZHN | HOUSTON        |                |
| KDSM        | CSUS43            | KDMX              | CSUS27  | KZMP    | NKAMSMZMP | MINNEAPOLIS    |                |
| KFCA        | CSUS45            | KMSO              | CSUS27  | KZLC    | NKAMSMZLC | SALT LAKE CITY |                |
| KGCC        | CSUS45            | KCYS              | CSUS27  | KZDV    | NKAMSMZDV | DENVER         |                |
| KGUY        | CSUS44            | KOUN              | CSUS27  | KZKC    | NKAMSMZKC | KANSAS CITY    |                |
| KHVR        | *                 | CSUS45            | KTFX    | CSUS27  | KZLC      | NKAMSMZLC      | SALT LAKE CITY |
| KILN        | *                 | CSUS41            | KILN    | CSUS27  | KZID      | NKAMSMZID      | INDIANAPOLIS   |
| KINW        | CSUS45            | KFGZ              | CSUS27  | KZAB    | NKAMSMZAB | ALBUQUERQUE    |                |
| KIRK        | CSUS43            | KEAX              | CSUS27  | KZKC    | NKAMSMZKC | KANSAS CITY    |                |
| KISN        | CSUS43            | KBIS              | CSUS27  | KZMP    | NKAMSMZMP | MINNEAPOLIS    |                |
| KLGB        | CSUS46            | KLOX              | CSUS27  | KZLA    | NKAMSMZLA | LOS ANGELES    |                |
| KLIC        | CSUS45            | KBOU              | CSUS27  | KZDV    | NKAMSMZDV | DENVER         |                |

|      |   |        |      |        |      |           |                |
|------|---|--------|------|--------|------|-----------|----------------|
| KLLJ | * | CSUS45 | KPIH | CSUS27 | KZLC | NKAMSMZLC | SALT LAKE CITY |
| KLNK |   | CSUS43 | KOAX | CSUS27 | KZMP | NKAMSMZMP | MINNEAPOLIS    |
| KLWD |   | CSUS43 | KDMX | CSUS27 | KZMP | NKAMSMZMP | MINNEAPOLIS    |
| KLWS |   | CSUS45 | KBOI | CSUS27 | KZSE | NKAMSMZSE | SEATTLE        |
| KLYH |   | CSUS41 | KRNK | CSUS27 | KZDC | NKAMSMZDC | WASHINGTON     |
| KMYL | * | CSUS45 | KBOI | CSUS27 | KZLC | NKAMSMZLC | SALT LAKE CITY |
| KOFK |   | CSUS43 | KOAX | CSUS27 | KZMP | NKAMSMZMP | MINNEAPOLIS    |
| KPGA |   | CSUS45 | KPSR | CSUS27 | KZDV | NKAMSMZDV | DENVER         |
| KPOF |   | CSUS43 | KLSX | CSUS27 | KZME | NKAMSMZME | MEMPHIS        |
| KRIW |   | CSUS45 | KRIW | CSUS27 | KZLC | NKAMSMZLC | SALT LAKE CITY |
| KRMG |   | CSUS42 | KFFC | CSUS27 | KZTL | NKAMSMZTL | ATLANTA        |
| KSHN | * | CSUS46 | KSEW | CSUS27 | KZSE | NKAMSMZSE | SEATTLE        |
| KSTC |   | CSUS43 | KMPX | CSUS27 | KZMP | NKAMSMZMP | MINNEAPOLIS    |
| KVTN |   | CSUS43 | KLBF | CSUS27 | KZDV | NKAMSMZDV | DENVER         |
| KYKM |   | CSUS46 | KSEW | CSUS27 | KZSE | NKAMSMZSE | SEATTLE        |

\* OLD WMO Header did not exist





# **Appendix V**

## **Generic ASOS Implementation Notice**





# Appendix V

## Generic ASOS Implementation Notice

Over the next several months the path for long line transmission of the observations from the following Automated Surface Observing System (ASOS) locations will change from the National Weather Service (NWS) Advanced Weather Interactive Processing System (AWIPS) network to the Federal Aviation Administration (FAA) AWOS Data Acquisition System (ADAS). When this occurs Automated Lightning Detection And Reporting System (ALDARS) information will be available in the ASOS Aviation Routine Weather Report (METAR) and the Selected Special Weather (SPECI) report. There will be a transition period at each location where the FAA ADAS connectivity and ALDARS information become available before the NWS AWIPS connectivity ends.

This is the first of several messages describing this change. As the date of the transfer for each location approaches, a second notification message will be issued with the specific date and time for the transition. A third message will be issued after the change over has occurred.

The tentative schedule for this transition, pending final approval to disconnect AWIPS is:

| SID  | LOCATION    | STATE | FAA ALDARS<br>START | NWS AWIPS<br>END |
|------|-------------|-------|---------------------|------------------|
| KRBL | RED BLUFF   | CA    | 6/25/01             | 7/19/01          |
| KSPI | SPRINGFIELD | IL    | 6/25/01             | 7/19/01          |
| KAVL | ASHEVILLE   | NC    | 6/25/01             | 7/19/01          |
| KCSG | COLUMBUS    | GA    | 6/25/01             | 7/19/01          |
| KOLM | OLYMPIA     | WA    | 6/26/01             | 7/19/01          |
| KBFL | BAKERSFIELD | CA    | 6/26/01             | 7/19/01          |
| KEUG | EUGENE      | OR    | 6/26/01             | 7/19/01          |
| KSUX | SIOUX CITY  | IA    | 6/27/01             | 7/19/01          |



|      |              |    |         |         |
|------|--------------|----|---------|---------|
| KACT | WACO         | TX | 6/27/01 | 7/19/01 |
| KILG | WILMINGTON   | DE | 6/27/01 | 7/19/01 |
| KAGS | AUGUSTA      | GA | 7/19/01 | 7/20/01 |
| KSHR | SHERIDAN     | WY | 7/19/01 | 7/20/01 |
| KCPR | CASPER       | WY | 7/26/01 | 7/27/01 |
| KRAP | RAPID CITY   | SD | 8/09/01 | 8/10/01 |
| KHLN | HELENA       | MT | 8/09/01 | 8/10/01 |
| KGRI | GRAND ISLAND | NE | 8/23/01 | 8/24/01 |
| KMLI | MOLINE       | IL | 8/23/01 | 8/24/01 |
| KRST | ROCHESTER    | MN | 8/23/01 | 8/24/01 |
| KALO | WATERLOO     | IA | 9/13/01 | 9/14/01 |
| KEVV | EVANSVILLE   | IL | 9/13/01 | 9/14/01 |
| KERI | ERIE         | PA | 9/13/01 | 9/14/01 |
| KIPT | WILLIAMSPORT | PA | 9/13/01 | 9/14/01 |
| KPWM | PORTLAND     | ME | 9/13/01 | 9/14/01 |
| KBPT | BEAUMONT     | TX | 9/13/01 | 9/14/01 |
| KRDD | REDDING      | CA | 9/20/01 | 9/21/01 |
| KSLE | SALEM        | OR | 9/20/01 | 9/21/01 |
| KAHN | ATHENS       | GA | 9/20/01 | 9/21/01 |
| KFSM | FORT SMITH   | AR | 9/20/01 | 9/21/01 |
| KMEI | MERIDIAN     | MS | 9/20/01 | 9/21/01 |

When the NWS AWIPS connectivity ends at each location, all data transmitted long line from these locations will appear under different bulletin headers. This change will affect the ASOS Routine Aviation Meteorological Report (METAR), Aviation Selected Special Weather Report (SPECI), Standard Hydrometeorological Exchange Format (SHEF) precipitation criteria and hourly accumulation messages, the Daily Summary Message (DSM), and the Monthly Summary Message (MSM). The following bulletin header changes will occur for these locations:

#### **METAR MESSAGES**

| ASOS<br>SID | WMO HEADER<br>CURRENT | WMO COLLECTIVE<br>CURRENT | NEW COLLECTIVE |
|-------------|-----------------------|---------------------------|----------------|
| KACT        | SAUS44 KFWD           | SAUS80 KWBC               | SAUS70 KWBC    |
| KAGS        | SAUS42 KCAE           | SAUS80 KWBC               | SAUS70 KWBC    |
| KAHN        | SAUS42 KFFC           | SAUS80 KWBC               | SAUS70 KWBC    |
| KALO        | SAUS43 KDMX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KAVL        | SAUS42 KGSP           | SAUS80 KWBC               | SAUS70 KWBC    |
| KBFL        | SAUS46 KHNX           | SAUS80 KWBC               | SAUS70 KWBC    |
| KBPT        | SAUS44 KLCH           | SAUS80 KWBC               | SAUS70 KWBC    |
| KCPR        | SAUS45 KRIW           | SAUS80 KWBC               | SAUS70 KWBC    |
| KCSG        | SAUS42 KTAE           | SAUS80 KWBC               | SAUS70 KWBC    |
| KERI        | SAUS41 KCTP           | SAUS80 KWBC               | SAUS70 KWBC    |

|      |        |      |        |      |        |      |
|------|--------|------|--------|------|--------|------|
| KEUG | SAUS46 | KMFR | SAUS80 | KWBC | SAUS70 | KWBC |
| KEVV | SAUS43 | KIND | SAUS80 | KWBC | SAUS70 | KWBC |
| KFSM | SAUS44 | KTSA | SAUS80 | KWBC | SAUS70 | KWBC |
| KGRI | SAUS43 | KGID | SAUS80 | KWBC | SAUS70 | KWBC |
| KHLN | SAUS45 | KTFX | SAUS80 | KWBC | SAUS70 | KWBC |
| KILG | SAUS41 | KPHI | SAUS80 | KWBC | SAUS70 | KWBC |
| KIPT | SAUS41 | KBGM | SAUS80 | KWBC | SAUS70 | KWBC |
| KMEI | SAUS44 | KJAN | SAUS80 | KWBC | SAUS70 | KWBC |
| KMLI | SAUS43 | KDVN | SAUS80 | KWBC | SAUS70 | KWBC |
| KOLM | SAUS46 | KSEW | SAUS80 | KWBC | SAUS70 | KWBC |
| KPWM | SAUS41 | KGYS | SAUS80 | KWBC | SAUS70 | KWBC |
| KRAP | SAUS43 | KUNR | SAUS80 | KWBC | SAUS70 | KWBC |
| KRBL | SAUS46 | KMTR | SAUS80 | KWBC | SAUS70 | KWBC |
| KRDD | SAUS46 | KSTO | SAUS80 | KWBC | SAUS70 | KWBC |
| KRST | SAUS43 | KMPX | SAUS80 | KWBC | SAUS70 | KWBC |
| KSHR | SAUS45 | KRIW | SAUS80 | KWBC | SAUS70 | KWBC |
| KSLE | SAUS46 | KPQR | SAUS80 | KWBC | SAUS70 | KWBC |
| KSPI | SAUS43 | KILX | SAUS80 | KWBC | SAUS70 | KWBC |
| KSUX | SAUS43 | KDMX | SAUS80 | KWBC | SAUS70 | KWBC |

### SPECI MESSAGES

| ASOS<br>SID | WMO HEADER<br>CURRENT | WMO COLLECTIVE<br>CURRENT | NEW COLLECTIVE          |
|-------------|-----------------------|---------------------------|-------------------------|
| KACT        | SPUS44                | KFWD                      | SPUS80 KWBC SPUS70 KWBC |
| KAGS        | SPUS42                | KCAE                      | SPUS80 KWBC SPUS70 KWBC |
| KAHN        | SPUS42                | KFFC                      | SPUS80 KWBC SPUS70 KWBC |
| KALO        | SPUS43                | KDMX                      | SPUS80 KWBC SPUS70 KWBC |
| KAVL        | SPUS42                | KGSP                      | SPUS80 KWBC SPUS70 KWBC |
| KBFL        | SPUS46                | KHNX                      | SPUS80 KWBC SPUS70 KWBC |
| KBPT        | SPUS44                | KLCH                      | SPUS80 KWBC SPUS70 KWBC |
| KCPR        | SPUS45                | KRIW                      | SPUS80 KWBC SPUS70 KWBC |
| KCSG        | SPUS42                | KTAE                      | SPUS80 KWBC SPUS70 KWBC |
| KERI        | SPUS41                | KCTP                      | SPUS80 KWBC SPUS70 KWBC |
| KEUG        | SPUS46                | KMFR                      | SPUS80 KWBC SPUS70 KWBC |
| KEVV        | SPUS43                | KIND                      | SPUS80 KWBC SPUS70 KWBC |
| KFSM        | SPUS44                | KTSA                      | SPUS80 KWBC SPUS70 KWBC |
| KGRI        | SPUS43                | KGID                      | SPUS80 KWBC SPUS70 KWBC |
| KHLN        | SPUS45                | KTFX                      | SPUS80 KWBC SPUS70 KWBC |
| KILG        | SPUS41                | KPHI                      | SPUS80 KWBC SPUS70 KWBC |
| KIPT        | SPUS41                | KBGM                      | SPUS80 KWBC SPUS70 KWBC |
| KMEI        | SPUS44                | KJAN                      | SPUS80 KWBC SPUS70 KWBC |
| KMLI        | SPUS43                | KDVN                      | SPUS80 KWBC SPUS70 KWBC |
| KOLM        | SPUS46                | KSEW                      | SPUS80 KWBC SPUS70 KWBC |
| KPWM        | SPUS41                | KGYS                      | SPUS80 KWBC SPUS70 KWBC |
| KRAP        | SPUS43                | KUNR                      | SPUS80 KWBC SPUS70 KWBC |

|      |             |             |             |
|------|-------------|-------------|-------------|
| KRBL | SPUS46 KMTR | SPUS80 KWBC | SPUS70 KWBC |
| KRDD | SPUS46 KSTO | SPUS80 KWBC | SPUS70 KWBC |
| KRST | SPUS43 KMPX | SPUS80 KWBC | SPUS70 KWBC |
| KSHR | SPUS45 KRIW | SPUS80 KWBC | SPUS70 KWBC |
| KSLE | SPUS46 KPQR | SPUS80 KWBC | SPUS70 KWBC |
| KSPI | SPUS43 KILX | SPUS80 KWBC | SPUS70 KWBC |
| KSUX | SPUS43 KDMX | SPUS80 KWBC | SPUS70 KWBC |

**ASOS SHEF PRECIPITATION CRITERIA MESSAGE**

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS P IL  | FAA HUB           |
|-------------|-------------------|-------------------|-----------|-------------------|
| KACT        | SRUS64 KFWD       | SRUS27 KZFW       | NKARR7ZFW | FT WORTH          |
| KAGS        | SRUS62 KCAE       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KAHN        | SRUS62 KFFC       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KALO        | SRUS63 KDMX       | SRUS27 KZAU       | NKARR7ZAU | CHICAGO           |
| KAVL        | SRUS62 KGSP       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KBFL        | SRUS66 KHNX       | SRUS27 KZLA       | NKARR7ZLA | LOS ANGELES       |
| KBPT        | SRUS64 KLCH       | SRUS27 KZHU       | NKARR7ZHU | HOUSTON           |
| KCPR        | SRUS65 KRIW       | SRUS27 KZDV       | NKARR7ZDV | DENVER            |
| KCSG        | SRUS62 KTAE       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KERI        | SRUS61 KCTP       | SRUS27 KZOB       | NKARR7ZOB | CLEVELAND         |
| KEUG        | SRUS66 KMFR       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE           |
| KEVV        | SRUS63 KIND       | SRUS27 KZID       | NKARR7ZID | INDIANAPOLIS      |
| KFSM        | SRUS64 KTSA       | SRUS27 KZME       | NKARR7ZME | MEMPHIS           |
| KGRI        | SRUS63 KGID       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS       |
| KHLN        | SRUS65 KTFX       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE<br>CITY |
| KILG        | SRUS61 KPHI       | SRUS27 KZNY       | NKARR7ZNY | NEW YORK          |
| KIPT        | SRUS61 KCTP       | SRUS27 KZNY       | NKARR7ZNY | NEW YORK          |
| KMEI        | SRUS64 KJAN       | SRUS27 KZME       | NKARR7ZME | MEMPHIS           |
| KMLI        | SRUS63 KDVN       | SRUS27 KZAU       | NKARR7ZAU | CHICAGO           |
| KOLM        | SRUS66 KSEW       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE           |
| KPWM        | SRUS61 KGYX       | SRUS27 KZBW       | NKARR7ZBW | BOSTON            |
| KRAP        | SRUS63 KUNR       | SRUS27 KZDV       | NKARR7ZDV | DENVER            |
| KRBL        | SRUS66 KMTR       | SRUS27 KZOA       | NKARR7ZOA | OAKLAND           |
| KRDD        | SRUS66 KSTO       | SRUS27 KZOA       | NKARR7ZOA | OAKLAND           |
| KRST        | SRUS63 KMPX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS       |
| KSHR        | SRUS65 KRIW       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE<br>CITY |
| KSLE        | SRUS66 KPQR       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE           |
| KSPI        | SRUS63 KILX       | SRUS27 KZKC       | NKARR7ZKC | KANSAS CITY       |
| KSUX        | SRUS63 KDMX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS       |

**ASOS SHEF HOURLY ROUTINE MESSAGE**

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL   | FAA HUB           |
|-------------|-------------------|-------------------|-----------|-------------------|
| KACT        | SRUS74 KFWD       | SRUS27 KZFW       | NKARR7ZFW | FT WORTH          |
| KAGS        | SRUS72 KCAE       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KAHN        | SRUS72 KFFC       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KALO        | SRUS73 KDMX       | SRUS27 KZAU       | NKARR7ZAU | CHICAGO           |
| KAVL        | SRUS72 KGSP       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KBFL        | SRUS76 KHNX       | SRUS27 KZLA       | NKARR7ZLA | LOS ANGELES       |
| KBPT        | SRUS74 KLCH       | SRUS27 KZHU       | NKARR7ZHU | HOUSTON           |
| KCPR        | SRUS75 KRIW       | SRUS27 KZDV       | NKARR7ZDV | DENVER            |
| KCSG        | SRUS72 KTAE       | SRUS27 KZTL       | NKARR7ZTL | ATLANTA           |
| KERI        | SRUS71 KCTP       | SRUS27 KZOB       | NKARR7ZOB | CLEVELAND         |
| KEUG        | SRUS76 KMFR       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE           |
| KEVV        | SRUS73 KIND       | SRUS27 KZID       | NKARR7ZID | INDIANAPOLIS      |
| KFSM        | SRUS74 KTSA       | SRUS27 KZME       | NKARR7ZME | MEMPHIS           |
| KGRI        | SRUS73 KGID       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS       |
| KHLN        | SRUS75 KTFX       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE<br>CITY |
| KILG        | SRUS71 KPHI       | SRUS27 KZNY       | NKARR7ZNY | NEW YORK          |
| KIPT        | SRUS71 KCTP       | SRUS27 KZNY       | NKARR7ZNY | NEW YORK          |
| KMEI        | SRUS74 KJAN       | SRUS27 KZME       | NKARR7ZME | MEMPHIS           |
| KMLI        | SRUS73 KDVN       | SRUS27 KZAU       | NKARR7ZAU | CHICAGO           |
| KOLM        | SRUS76 KSEW       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE           |
| KPWM        | SRUS71 KGYX       | SRUS27 KZBW       | NKARR7ZBW | BOSTON            |
| KRAP        | SRUS73 KUNR       | SRUS27 KZDV       | NKARR7ZDV | DENVER            |
| KRBL        | SRUS76 KMTR       | SRUS27 KZOA       | NKARR7ZOA | OAKLAND           |
| KRDD        | SRUS76 KSTO       | SRUS27 KZOA       | NKARR7ZOA | OAKLAND           |
| KRST        | SRUS73 KMPX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS       |
| KSHR        | SRUS75 KRIW       | SRUS27 KZLC       | NKARR7ZLC | SALT LAKE<br>CITY |
| KSLE        | SRUS76 KPQR       | SRUS27 KZSE       | NKARR7ZSE | SEATTLE           |
| KSPI        | SRUS73 KILX       | SRUS27 KZKC       | NKARR7ZKC | KANSAS CITY       |
| KSUX        | SRUS73 KDMX       | SRUS27 KZMP       | NKARR7ZMP | MINNEAPOLIS       |

**ASOS DAILY SUMMARY**

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL   | FAA HUB     |
|-------------|-------------------|-------------------|-----------|-------------|
| KACT        | CXUS44 KFWD       | CDUS27 KZFW       | NKADSMZFW | FT WORTH    |
| KAGS        | CXUS42 KCAE       | CDUS27 KZTL       | NKADSMZTL | ATLANTA     |
| KAHN        | CXUS42 KFFC       | CDUS27 KZTL       | NKADSMZTL | ATLANTA     |
| KALO        | CXUS43 KDMX       | CDUS27 KZAU       | NKADSMZAU | CHICAGO     |
| KAVL *      | CXUS42 KGSP       | CDUS27 KZTL       | NKADSMZTL | ATLANTA     |
| KBFL        | CXUS46 KHNX       | CDUS27 KZLA       | NKADSMZLA | LOS ANGELES |

|      |        |        |        |        |           |                |                |
|------|--------|--------|--------|--------|-----------|----------------|----------------|
| KBPT | CXUS44 | KLCH   | CDUS27 | KZHU   | NKADSMZHU | HOUSTON        |                |
| KCPR | CXUS45 | KRIW   | CDUS27 | KZDV   | NKADSMZDV | DENVER         |                |
| KCSG | CXUS42 | KTAE   | CDUS27 | KZTL   | NKADSMZTL | ATLANTA        |                |
| KERI | CXUS41 | KCTP   | CDUS27 | KZOB   | NKADSMZOB | CLEVELAND      |                |
| KEUG | CXUS46 | KMFR   | CDUS27 | KZSE   | NKADSMZSE | SEATTLE        |                |
| KEVV | CXUS43 | KIND   | CDUS27 | KZID   | NKADSMZID | INDIANAPOLIS   |                |
| KFSM | CXUS44 | KTSA   | CDUS27 | KZME   | NKADSMZME | MEMPHIS        |                |
| KGRI | CXUS43 | KGID   | CDUS27 | KZMP   | NKADSMZMP | MINNEAPOLIS    |                |
| KHLN | CXUS45 | KTFX   | CDUS27 | KZLC   | NKADSMZLC | SALT LAKE CITY |                |
| KILG | CXUS41 | KPHI   | CDUS27 | KZNY   | NKADSMZNY | NEW YORK       |                |
| KIPT | CXUS41 | KCTP   | CDUS27 | KZNY   | NKADSMZNY | NEW YORK       |                |
| KMEI | CXUS44 | KJAN   | CDUS27 | KZME   | NKADSMZME | MEMPHIS        |                |
| KMLI | CXUS43 | KDVN   | CDUS27 | KZAU   | NKADSMZAU | CHICAGO        |                |
| KOLM | CXUS46 | KSEW   | CDUS27 | KZSE   | NKADSMZSE | SEATTLE        |                |
| KPWM | CXUS41 | KGX    | CDUS27 | KZBW   | NKADSMZBW | BOSTON         |                |
| KRAP | CXUS43 | KUNR   | CDUS27 | KZDV   | NKADSMZDV | DENVER         |                |
| KRBL | *      | CXUS46 | KMTR   | CDUS27 | KZOA      | NKADSMZOA      | OAKLAND        |
| KRDD |        | CXUS46 | KSTO   | CDUS27 | KZOA      | NKADSMZOA      | OAKLAND        |
| KRST |        | CXUS43 | KMPX   | CDUS27 | KZMP      | NKADSMZMP      | MINNEAPOLIS    |
| KSHR |        | CXUS45 | KRIW   | CDUS27 | KZLC      | NKADSMZLC      | SALT LAKE CITY |
| KSLE |        | CXUS46 | KPQR   | CDUS27 | KZSE      | NKADSMZSE      | SEATTLE        |
| KSPI |        | CXUS43 | KILX   | CDUS27 | KZKC      | NKADSMZKC      | KANSAS CITY    |
| KSUX |        | CXUS43 | KDMX   | CDUS27 | KZMP      | NKADSMZMP      | MINNEAPOLIS    |

**ASOS MONTHLY SUMMARY MESSAGE**

| ASOS<br>SID | WMO Header<br>OLD | WMO Header<br>NEW | NWS PIL | FAA HUB |           |           |              |
|-------------|-------------------|-------------------|---------|---------|-----------|-----------|--------------|
| KACT        | CSUS44            | KFWD              | CSUS27  | KZFW    | NKAMSMZFW | FT WORTH  |              |
| KAGS        | *                 | CSUS42            | KCAE    | CSUS27  | KZTL      | NKAMSMZTL | ATLANTA      |
| KAHN        | *                 | CSUS42            | KFFC    | CSUS27  | KZTL      | NKAMSMZTL | ATLANTA      |
| KALO        |                   | CSUS43            | KDMX    | CSUS27  | KZAU      | NKAMSMZAU | CHICAGO      |
| KAVL        | *                 | CSUS42            | KGSP    | CSUS27  | KZTL      | NKAMSMZTL | ATLANTA      |
| KBFL        |                   | CSUS46            | KHNX    | CSUS27  | KZLA      | NKAMSMZLA | LOS ANGELES  |
| KBPT        |                   | CSUS44            | KLCH    | CSUS27  | KZHU      | NKAMSMZHU | HOUSTON      |
| KCPR        |                   | CSUS45            | KRIW    | CSUS27  | KZDV      | NKAMSMZDV | DENVER       |
| KCSG        |                   | CSUS42            | KTAE    | CSUS27  | KZTL      | NKAMSMZTL | ATLANTA      |
| KERI        |                   | CSUS41            | KCTP    | CSUS27  | KZOB      | NKAMSMZOB | CLEVELAND    |
| KEUG        |                   | CSUS46            | KMFR    | CSUS27  | KZSE      | NKAMSMZSE | SEATTLE      |
| KEVV        |                   | CSUS43            | KIND    | CSUS27  | KZID      | NKAMSMZID | INDIANAPOLIS |
| KFSM        |                   | CSUS44            | KTSA    | CSUS27  | KZME      | NKAMSMZME | MEMPHIS      |

|      |        |        |        |        |           |                   |         |
|------|--------|--------|--------|--------|-----------|-------------------|---------|
| KGRI | CSUS43 | KGID   | CSUS27 | KZMP   | NKAMSMZMP | MINNEAPOLIS       |         |
| KHLN | CSUS45 | KTFX   | CSUS27 | KZLC   | NKAMSMZLC | SALT LAKE<br>CITY |         |
| KILG | CSUS41 | KPHI   | CSUS27 | KZNY   | NKAMSMZNY | NEW YORK          |         |
| KIPT | CSUS41 | KCTP   | CSUS27 | KZNY   | NKAMSMZNY | NEW YORK          |         |
| KMEI | CSUS44 | KJAN   | CSUS27 | KZME   | NKAMSMZME | MEMPHIS           |         |
| KMLI | CSUS43 | KDVN   | CSUS27 | KZAU   | NKAMSMZAU | CHICAGO           |         |
| KOLM | CSUS46 | KSEW   | CSUS27 | KZSE   | NKAMSMZSE | SEATTLE           |         |
| KPWM | CSUS41 | KGXY   | CSUS27 | KZBW   | NKAMSMZBW | BOSTON            |         |
| KRAP | CSUS43 | KUNR   | CSUS27 | KZDV   | NKAMSMZDV | DENVER            |         |
| KRBL | *      | CSUS46 | KMTR   | CSUS27 | KZOA      | NKAMSMZOA         | OAKLAND |
| KRDD | CSUS46 | KSTO   | CSUS27 | KZOA   | NKAMSMZOA | OAKLAND           |         |
| KRST | CSUS43 | KMPX   | CSUS27 | KZMP   | NKAMSMZMP | MINNEAPOLIS       |         |
| KSHR | CSUS45 | KRIW   | CSUS27 | KZLC   | NKAMSMZLC | SALT LAKE<br>CITY |         |
| KSLE | CSUS46 | KPQR   | CSUS27 | KZSE   | NKAMSMZSE | SEATTLE           |         |
| KSPI | CSUS43 | KILX   | CSUS27 | KZKC   | NKAMSMZKC | KANSAS CITY       |         |
| KSUX | CSUS43 | KDMX   | CSUS27 | KZMP   | NKAMSMZMP | MINNEAPOLIS       |         |

Note: The asterisk indicates that the Old WMO Header did not exist.

We urge all users with automatic decoders to reprogram their systems now to recognize the new bulletin headers for these ASOS observations.

Please be advised that delivery of these reports and messages to NWS customers may be delayed approximately 5 minutes due to increased communications handling between FAA and NWS.

If you have any questions about this change, please contact:  
 Dave Mannarano at (301) 713-2093 x 103, [david.mannarano@noaa.gov](mailto:david.mannarano@noaa.gov) or  
 Anthony Robinson at (301) 713-1373 x 110,  
[anthony.robinson@noaa.gov](mailto:anthony.robinson@noaa.gov).

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