

**Amateur Radio Operations Support Plan**  
***ARRL/NWS SKYWARN Recognition Day 2001***  
**0000z to 2400z Saturday, December 1 UTC**  
**(1700 MST Friday, Nov. 30 to 1700 MST Saturday, Dec. 1)**  
(Final Plan, Version 2.0 9/23/04)

Event: ARRL/NWS SKYWARN Recognition Day 2001

Served Agency: National Weather Service Forecast Office, Pueblo

Agency POC: KBØRPD

Location: NWS Forecast Office, Pueblo

Date(s): Friday, 11/30/01 to Saturday, 12/01/01

Time(s):

Friday, 11/30/01

Setup, 1000-1700

1000-1300 RV Setup in lot west of NWS, preliminary antenna setup

1300-1500 External Antenna Setup

1500-1700 Internal Station Setup:

1700 Special Event Start

Saturday, 11/2/00

0000-1700 Event Continues

1700-DONE Teardown

Mission Coordinators:

Overall Event Coordinator/NWS

KBØRPD

Amateur Radio Planner/Site Coordinator

KØHBZ

Pikes Peak ARES/SKYWARN (Colo. ARES District 14)

Other Amateur Radio organization representatives:

WBØGSU

Pueblo Ham Club

KJØT

Colo. ARES District 16

Special Situations/Conditions:

The NWS Pueblo Forecast Office serves a large area of southeastern and south-central Colorado. There are a number of different amateur radio organizations which support NWS operations throughout the year. Operators from all of these various organizations are invited and encouraged to participate in the ARRL/NWS SKYWARN Recognition Day special event.

- 1) **Facility Security:** Due to recent terrorist activity, NWS Pueblo is operating under a Level III security alert. We will have to provide door access security throughout the event and all operators will be required to wear/display NWS visitor badges. Pikes Peak ARES members are encouraged to wear their photo ID badges.
- 2) **Door Monitoring:** Sign-in, sign-out sheets will have to be maintained throughout the event. The following operators have volunteered to help as door monitors: K4ARM; N9HSW; NØWPA; KBØYCI; KCØFNV; WBØGSU; WL7RV; KØHBZ. We would appreciate help with this task from all event participants.
- 3) **Talk-In and NWS Door Access:** Talk-in should be available on the 146.790- (no tone) repeater if needed. *Stations should attempt to make contact on 146.580 simplex when arriving at the NWS parking lot to ensure someone will be available to let you in the door.*
- 4) **Four Official NWS PUB Stations:** There will be a total of four official stations, all located in the NWS Conference Room. Two HF SSB stations, one HF digital station; and a VHF/UHF Phone & Packet station. All four stations will be in place from the start of the event and remain until the end and are there for all participants to use. There will be no stations operating outside the facility or any additional stations brought into the facility during the event (except, say, to change out one rig for another -- if necessary). Each station will have a sign-up sheet where operators and loggers can sign up to work that particular station.
- 5) **Special Event Callsign:** The NWS Pueblo Forecast Office special event call sign is WØP. KØHBZ is the Trustee for this call sign and responsible for its proper usage. Control operators must identify no less than once an hour with the Pikes Peak ARES club call sign KØPPA as per FCC rules & regulations.
- 6) **Computer Logging:** New this year, NWS Goodland is requiring that all NWS offices provide their log books in electronic form (spreadsheet). Each station will have a laptop computer running LogWindows 3.0 (software will be provided). At the end of the event, the data files will be merged and converted into an Excel spreadsheet to submit to NWS Goodland. The software requires a computer running Windows 3.1 or later. In addition, computers need 40Mb hard drive or larger, min. 4 Mb RAM, and a 3 ½" floppy drive.
- 7) **RVs:** Those participants bringing RVs can park them in the vacant lot just west of the NWS office. These are for rest, sleep, relaxation, cooking, etc., but are not to be used for HF operations as it can interfere with the official NWS stations inside. Limited VHF/UHF communication in an unofficial capacity probably will not cause any interference problems. *NOTE: This area is full of prairie dog holes and everyone needs to watch his/her step, especially at night (carry a flashlight) to avoid potential injury.*
- 8) **Conference Room Noise Control:** With four stations operating in the Conference Room, noise control will be essential. Each station should be equipped for double headset operation (one for operator, other for logger or observer). Operators or visitors wishing just to visit (ragchew, BS, etc.) are encouraged to do so in the lobby or break room areas so as to not cause AF interference to the folks operating the stations.

1. Incident Objective(s):

Provide amateur radio support for NWS Pueblo during the nationwide ARRL/NWS SKYWARN Recognition Day 2001

2. Pre-Planning Meetings/Events/Actions:

Coordinate with NWS PUB & participating amateur radio organizations -- ONGOING (KØHBZ)  
 Request Special Event Call Sign WØP -- DONE (KØHBZ)  
 Register Pueblo participation and call sign with NWS Goodland -- DONE (KØHBZ)  
 Request use of PPFMA resources -- (KØHBZ)  
 Site Survey, NWS PUB -- DONE (KØHBZ)  
 Make station operator sign-up sheets -- DONE (K4ARM)  
 Prepare Event information packets for stations/operators -- (KØHBZ)  
 Coordinate Computers/Software for Logging as required: (KBØYCI)  
 Notify Pueblo Airport Manager of NWS Event (interference issues) -- (KBØRPD)

3. Participating Amateur Radio Organization/Individual(s):

Pueblo Ham Club (PHC)  
 Pikes Peak ARES District 14

Colo. ARES District 16

4. Assignment/Estimation of Resources:

A. Mission: N/A

B. Required Resources:

- 1) Estimated Staff Hours: N/A
- 2) Specialized Experience:
  - a) Portable HF/VHF/UHF Operations

C. Scope of Operations -- Operate various HF/VHF/UHF equipment making and logging contacts with amateur operators in accordance with the NWS Special Event Guidelines detailed at website:  
<http://hamradio.noaa.gov>

5. Supporting Elements to Accomplish Objective:

A. Event Stations & Responsibility

- 1) HF SSB #1 (WBØGSU, PHC/KØHBZ, D-14)
  - HF SSB Radio
  - Power Supply (if needed)
  - Antenna Tuner (if needed)
  - Coax or feedline
  - HF antenna
  - Headphones (2) and Headphone Splitter
  - Logging Computer (KØHBZ)
  - Extension Cord & Power Strip
  - Miscellaneous
    - Yellow Pads
    - Pencils/Pens
- 2) HF SSB #2 (KAØPII & KØHBZ, D-14)
  - HF SSB Radio
  - Power Supply (if needed)
  - Antenna Tuner (if needed)
  - Coax or feedline
  - HF antenna
  - Headphones (2) and Headphone Splitter
  - Logging Computer (KAØPII – MARC)
  - Extension Cord & Power Strip
  - Miscellaneous
    - Yellow Pads
    - Pencils/Pens
- 3) HF Digital -- KØTER (D-14)
  - HF Radio
  - Power Supply (if needed)
  - Antenna Tuner (if needed)
  - Coax or feedline
  - HF antenna
  - TNC & Computer for digital operation
  - Headphones (2) and Headphone Splitter
  - Logging Compute (K4ARM)

Extension Cord & Power Strip  
Miscellaneous  
Yellow Pads  
Pencils/Pens

- 4) VHF/UHF FM & Packet -- KØHBZ (D-14)  
VHF/UHF Radio  
Power Supply  
Coax or feedline  
VHF/UHF antenna  
TNC  
Headphones (2) and Headphone Splitter  
Logging/Packet Computer (Wes Wilson, KØHBZ)  
Extension Cord & Power Strip  
Miscellaneous  
Yellow Pads  
Pencils/Pens

B. Antenna Setup Locations:

HF SSB-1: Inverted V E/W on lawn to SE of NWS facility

HF SSB-2:

- 1) Dipoles (40m & 80m) E/W from lawn into vacant lot SW of NWS facility
- 2) Cushcraft R-5 (10, 12, 15, 17, & 20m) Grass area just NE of facility

HF Digital: Inverted V, vacant lot immediately W of NWS facility (note -- long feedline run)

VHF/UHF/Packet: Put up mast w/ dual-band antenna at location TBD

3. General Operator Requirements:

- 1) Most operator equipment & supplies provided
- 2) Pens, pencils, notepads
- 3) Headphones (1/4" Stereo Plug) -- Bring if you have them, headphone splitters needed all stations.
- 4) Food, beverages, medications (coffee provided, snack concession available)
- 5) Winter outerwear, coats, hats, gloves, etc.
- 6) Sleeping bag, pillow, toiletries, change of clothes (for those sleeping over)

D. Frequencies:

- 1) HF -- Standard Bands, Floating, General Class segments.
- 2) VHF/UHF FM  
Talk-In Repeater: 146.790- (no tone) Pueblo Ham Club, Talk-In  
Talk-In Simplex: 146.580 (Call when arriving NWS facility, will meet you at door)  
146.970- (100) PPFMA  
448.450- (100) PPFMA  
147.015+ (107.2) MARC  
147.030+ (107.2) PRIVATE  
446.100 Simplex, PPARES Intercom
- 3) VHF Packet (optional) 144.910 - 145.090 (Deer Peak 145.010)

6. Misc. Information:

A. Directions to NWS Pueblo

The Weather Service is located at 3 Eaton Way in the Industrial Park at the Pueblo Memorial Airport. The office is NOT near the terminal. Do not follow the signs for the terminal and assume you will reach the NWS office. The airport is located north of US 50 several miles east of Pueblo.

- 1) From I-25 take exit 100A, which is US 50 east.  
NOTE: - If you are traveling on I-25 southbound (from Colorado Springs), there will be an exit for US 50 WEST about 2 miles before the US 50 east exit. DO NOT take the US 50 WEST exit.
- 2) You will travel on US 50 eastbound for about 6 to 7 miles. You will go through three traffic signals and under a railroad bridge.
- 3) From US 50 take the Pueblo Memorial Airport exit. On the exit ramp get into the left lane.
- 4) At the end of the exit ramp, make a left turn into the left lane.
- 5) After going under the overpasses the road divides. When the road divides, go straight (stay left). The road to the right goes to the terminal. The NWS office is not near the terminal.
- 6) The road will come to a AT@ intersection in about 1/4 mile. Turn left onto William White Boulevard.
- 7) Continue on William White Boulevard for about 3/4 of a mile. The NWS office is a relatively small dark red brick building on the right side of the road with a flag flying in front. The NWS office is past Trane (on the right), but before Ashland Chemical (on the left).
- 8) Turn right onto the road just before the office (Eaton Way), and turn left into our parking lot.
- 9) **NOTE: If you will be bringing an RV or parking in the RV area:** Continue West on William White Blvd. past the NWS office about 200-250 yards to next road to the right (just past large unoccupied industrial building). Turn right, then turn right into driveway and go around the north side of the unoccupied building and proceed into the vacant lot between this building and the NWS office. There are some prairie dogs in this area, be careful not to step into a prairie dog hole.