

Request for Facility Support

Doppler On Wheels (DOW) Mobile Multiple-Doppler Radar Network

Rapid-Scan Doppler On Wheels

Center for Severe Weather Research
3394 Airport Road, Boulder, Colorado, USA
720-304-9100 (phone) 720-304-0900 fax admin@cswr.org

A. User

1. Name:
2. Title:
3. Date:
4. Address:
5. Affiliation:
6. Phone:
FAX:
Email:
7. Other Persons and Affiliations (attach list if necessary):
8. Project Title:
9. Brief Abstract of Proposed Field Program:

B. General Information

10. Funding Agency: Contract Office:
 Proposal in Draft Form ()
 Pending Negotiations ()
 In Review ()
 Approved ()
11. Location of Field Program:
12. Start and End Dates of Field Program:
13. Number of Personnel You Will Bring to the Field, can they assist with radar operations
 Bringing your own students/staff to assist with radar operations will reduce costs and add educational value. Basic DOW operation can be accomplished by personnel with little or no radar or meteorology experience. (CSWR will provide training for operators, drivers, etc.):
14. Typical operations (daily ops hrs, number of days per week):
15. CSWR provides a Scientific Project Manager for all field programs to assist in experiment

design, site selection, field coordination and general liaison with Principal Investigators.
Does the proposed project require a CSWR scientist resident at the field site for the duration of the experiment? Yes ___ No ___

16. Describe the other observational facilities involved in your program. (e.g. aircraft, surface sensors)
17. What assistance will you require in locating deployment sites for the radar(s)? (Note that some logistics details will depend on how far these sites are from the personnel, whether sites are secure for DOW storage between operations, how far DOWs must be driven to sites for operations, etc.)

C. Requirements

18. Radar Parameters (be as specific as possible)

PRF:

Gate Spacing:

Types of Variable Recorded Scans: (velocity, reflectivity):

Number of Pulses Per Integration Cycle:

Update rates for volumetric scans? (1 minute per volume, 3 minutes per volume?)

Number of tilts per volume?

Volumetric resolution (e.g. 100 m x 100 m x 100 m?)

Do you require dual-Doppler? If so, are you requesting multiple DOWs?

Do you require rapid-scan capability?

19. List of auxiliary equipment you will bring (please include description, volume, power, and voltage):
20. Communication Requirements (including the need for sending radar data to a remote site)
21. Data:
Estimated number of radar observations hours:
What level of product would you desire for a final data set (raw files or translated sweeps)?

D. Previous Experience

22. Previous Research Radar Experience of Requesting Scientist(s):
23. List of Publications Resulting from Past Radar Programs (attach list if necessary):

E. Experiment Description

24. Please attach a written description of the experiment. A statement of the scientific objectives, experimental design, and planned use of all major facilities should be included

and discussed in detail. This includes use of research aircraft, satellite data and sounding data, etc. Two copies of the scientific proposal through which this research will be funded should be submitted if such a proposal exists. Completed forms should be sent, preferably via e-mail, to CSWR. Please ask for confirmation that the documents have been received and can be read.