

AVAILABLE FACILITIES & SERVICES

FACILITIES

The National Science Foundation (NSF) through its Lower Atmospheric Observing Facilities (LAOF) program sponsors a suite of multi-user, national facilities, instrumentation and services in support of geoscience research.

Five LAOF partner organizations, which include the National Center for Atmospheric Research (NCAR), the University of Wyoming (UW), Colorado State University (CSU), the Center for Severe Weather Research (CSWR) and the Center for Interdisciplinary Remotely-Piloted Aircraft Studies (CIRPAS), are tasked to provide the operational, technical, logistical and data support needed to carry out scientific field campaigns.

RESEARCH **A**IRCRAFT

NSF/NCAR Gulfstream V (GV) NSF/NCAR C-130 UW King Air CIRPAS Twin Otter CIRPAS A-10

GROUND-BASED & AIRBORNE REMOTE SENSING PLATFORMS NCAR S-PolKa Radar

NCAR HIAPER Cloud Radar (HCR) NCAR High Spectral Resolution Lidar (HSRL) CSWR Doppler on Wheels CSU CHILL Radar UW Cloud Radar (WCR) UW Cloud Lidar (WCL)

SURFACE AND SOUNDING SYSTEMS

NCAR Integrated Surface Flux System (ISFS) NCAR Integrated Sounding System (ISS) NCAR GPS Advanced Upper-air Sounding System (GAUS) NCAR Airborne Vertical Atmospheric Profiling System (AVAPS)

National facilities are available on a competitive basis to qualified researchers from US universities at no additional cost to their grants. Deployment allocations are driven by the scientific merit of the proposed use, the capabilities of a specific facility to carry out the proposed observations, and availability of the facility for the requested time period.

SERVICES

The Earth Observing Laboratory (EOL) offers a variety of services to support field research, including:

Project Management

Project planning and coordination Operations and logistics Post-project activities

Data acquisition and display Data management Data archival

Design and Fabrication Services Machine shop support

Mechanical design Fluid dynamics and flow modeling









Computing, Data and Software Services



Facilities can be requested twice annually up to two years in advance of a scheduled campaign. All requests must be associated with one or more peer-reviewed NSF scientific proposal. The process for considering requests and setting priorities is determined on the basis of the complexity of a field campaign, which can fall under three distinct categories: 1) Large, 2) Small, and 3) Educational.

Determination of what category a campaign will fall into will be made by NSF in consultation with personnel from the relevant LAOF partner organizations.

LARGE:

Large program requests often display one or more of the following attributes: remote deployments, significant international and/or interagency collaboration, involvement of multiple facilities and especially aircraft that require coordination, difficult deployment logistics, and lengthy field activities.

SMALL:

Small programs generally involve a smaller number of facilities and investigators, do not require long-term planning, and cost less than \$1.25 million in Deployment Pool funds, though this is not a hard target.

EDUCATIONAL:

NSF also reserves a portion of the Deployment Pool for use by educators wishing to gain access to observational facilities for classroom instruction and hands-on learning experiences. Instruments can be made accessible for graduate, undergraduate and K-12 education, including the deployment of a facility to a university for a limited period of time.

GLOBAL LAOF DEPLOYMENTS





REQUEST LAOF

www.eol.ucar.edu/requestfacilities









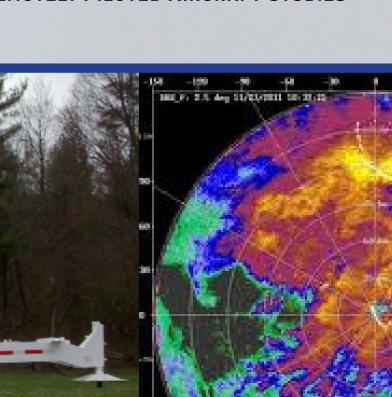


IN SUPPORT OF SCIENCE & EDUCATION













Small Project Timeline for LAOF Requests (<\$1.25M)

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Calendar Year - 2							Calendar Year - 1						Calendar Year - 0															
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				Time	e peri	od to	subm	nit scie	entific	gran	t prop	oosal	to NS	SF														
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		Fall OFAP Meeting																										
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									NSF final action on scientific grant proposals																			
									NSF final decision on project approval/rejectionImplementation (8 Months)Campaign Per								Der											
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Fiscal Year - 2						Fiscal Year - 1 Educational Projects proposal accepted twice a year						Fiscal Year - 0																
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									Deadline to submit an educational request & proposal to FM																			

5	6	7	8	9	10	11	1							



REQUEST TIMELINES

Calendar Year - 2	Calendar Year - 1 Calendar Year - 0	Calendar Year - 0								
Oct - Sept) Fiscal	Year - 1 (Oct - Sept) Fiscal Year - 0 (Oct - Sept)									
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est preliminary cost estimates from rele	vant Facility Managers (FM)									
to submit Scientific Project Overview (SPO) to NSF via FastLane										
to submit Experiment Design Overview (EDO) to NSF, EOL and relevant FM										
to submit campaign presentation slides	to EOL									
Spring Observing Facilities A	ssessment Panel (OFAP) Meeting									
30 NSF decision to encourage or discourage submission of campaign-related science proposals										
15 Deadline to submit f	eadline to submit facility request and associated materials (if encouraged)									
Time period to subm	me period to submit individual scientific grant proposals to NSF (if encouraged)									
31 Deadline to submit a	adline to submit copies of individual scientific grant proposals to appropriate FM and EOL									
Fall OF	AP Meeting									
	Final action on scientific grant proposals									
	Final decision on project approval/rejection									
	Implementation (8 months) Campaign Period (12 months)									

Action Required

Decision Point

Review Point

