

Please review all of the following information, including the gear allocations and field team members, to ensure accuracy. This plan is an agreement between VPR and your group, documenting the logistics support you will receive.

• Project Information •

Lead Principal Investigator	Dr. Robert Clauer
Institute	University of Michigan, Department of Atmospheric, Oceanic & Space Science
Project Title / Grant #	Operation of a magnetometer array on the Greenland Ice Cap (MAGIC) and interhemispherical investigation of multi-scale currents systems (0220735)
NSF Program and Manager	NSF/OPP ANS, Dr. Jane Dionne
VPR Project Manager	Robin Abbott

• Logistics Summary •

<p>This project has operated a magnetometer array on the Greenland ice cap since 1991. This grant covers upgrade and maintenance of the array from 2003-2005. The plan for 2006 is to remove the magnetometers from both Summit Station and Camp Raven.</p> <p>Five field team members will visit the magnetometer sites at Summit and Raven during the back-to-back flight period in May 2005. During their stay at the sites, field team members will dig up the magnetometers and collect data.</p> <p>VPR will coordinate Air National Guard flights, pay for user days in Kangerlussuaq, and support the team while at Summit and Raven.</p>

For the complete VPR online project record for this grant, including science objectives, go to:
http://www.vecopolar.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0220735

• Outstanding Issues •

Issue	Responsibility	Date Completed
Review support plan for accuracy and distribute to all field team members	PI	
Obtain all necessary permits for fieldwork	PI	
Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	
Medical Clearance completed 8-6 weeks before desired deployment date	DeJong	
Please note this important information for your field team: Bring 2 different forms of picture ID. Passports are now mandatory for entry into Greenland. Be sure to pack them!	Field Team Members	
Complete Critical Success Factors	PI	

• Allocations & Services •

Allocations from Inventory

Project Allocations	Comments
1 ea Arctic Oven Tent	Required at both Summit and Raven
4 ea Sleeping Pads	Request for both Summit and Raven
1 ea complete Sleep Kit	For team member added late
1 ea Snowmobile	Necessary at both Summit and Raven
1 ea Nansen Sled	Necessary at both Summit and Raven

6 ea 2" x 4" pieces lumber (6-7' long)	Need at both Summit and Raven
3 ea Plywood sheets	Need at both Summit and Raven
2 ea VHF Radio	Requires 2 at each site.
1 ea Survival Bag	Need at both Summit and Raven
5 ea Shovels for Raven, only 3 at Summit	Need at both Summit and Raven
10 ea bamboo poles with flags to lead out to site	Need at both Summit and Raven. Request that route to the magnetometer sites will be flagged by camp staff prior to arrival of field team.
2 ea Pick	Raven only
1 ea Chain Saw	Raven only
4 ea Thermos	Will use at both Summit and Raven
1 ea generator for chain saw	Raven only
1 ea hot air gun (for frozen wires)	Raven only

Other Services

Quant/Unit	Item
Qty	Meals served for field team members during the designated meal hours at Camp Raven and at Summit. Vegetarian meal (dairy and eggs okay) will be available to the non-meat eater on the field team.
Qty	Digital photographs of magnetometer sites will be sent to PI prior to deployment

• Location Information •

Please visit <http://www.vecopolar.com> and navigate to the Greenland menu for en route and location-specific Greenland information. Prior to deployment, your entire field team should be familiar with the content of the *Greenland Guide* and, if traveling to Summit, with the guidelines provided in the *Summit Users' Guide*. Both are available electronically via our web site's Greenland menu.

This season at Summit, VPR is undertaking a significant construction effort, upgrading the Station's power distribution system and lifting all Summit structures to the snow's surface. For a detailed description of the planned building uplift project, go to <http://www.vecopolar.com> and navigate to Greenland > Science Project Plans

• Cargo and Customs •

All cargo required for your project should arrive in Scotia, NY no later than 2 weeks prior to the desired northbound Air National Guard (ANG) flight, must be entered into our online Cargo Tracking System, and must be properly registered with customs.

- For the most current ANG flight schedule got to <http://www.vecopolar.com> and navigate to Greenland > Calendars/Schedules.
- If you are a new user requiring access to the Cargo Tracking System, contact Robin Abbott (robin@polarfield.com).
- For Customs requirements refer to the *Greenland Guide*, available at <http://www.vecopolar.com> under Greenland.

The following is our current understanding of your overall cargo requirements:

Cargo List

Items
4 ea Metal Boxes - approximately 3' x 3' x 4'
1 ea Gin Pole - approximately 8 feet long
1 ea Tower end - 6 ft long w/ 1.5 ft triangle

• Support Schedule •

Date	Location	Activity
15 May	Scotia	5 team members arrive in NY
16 May	Kangerlussuaq	5 team members fly to Greenland
17 May	Summit	3 team members fly to Summit, 2 fly to Raven
20 May	Kangerlussuaq	3 team members depart Summit for Kanger
21 May	Raven	3 team members fly to Raven
24-25 May	Kangerlussuaq	5 team members depart Raven
27 May	Scotia	5 team members return to USA

• Field Team Information •

Name	Location	Date In	Date Out	Email
Anna DeJong	Kangerlussuaq	5/16/2005	5/27/2005	dejonga@umich.edu
Anna DeJong	Summit	5/17/2005	5/20/2005	
Anna DeJong	Raven	5/21/2005	5/24/2005	
Dan Welling	Kangerlussuaq	5/16/2005	5/27/2005	dwelling@umicn.edu
Dan Welling	Summit	5/17/2005	5/24/2005	
Ken Arnett	Kangerlussuaq	5/16/2005	5/27/2005	
Ken Arnett	Summit	5/17/2005	5/20/2005	
Ken Arnett	Raven	5/21/2005	5/24/2005	
Tom O'Brien	Kangerlussuaq	5/16/2005	5/27/2005	teobrien@umich.edu
Tom O'Brien	Summit	5/17/2005	5/20/2005	
Tom O'Brien	Raven	5/21/2005	5/24/2005	
Xia Cai	Kangerlussuaq	5/16/2005	5/27/2005	xcgai@umich.edu
Xia Cai	Raven	5/17/2005	5/24/2005	

• Project Contact Information •

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Dr. Robert Clauer	rclauer@umich.edu	734-763-6248/734-763-0437
Field Coordinator	Ms. Anna DeJong	dejonga@umich.edu	734-764-4582
Co-PI	Dr. Vladimir Papitashvili	papita@umich.edu	313-763-6247/313-763-5567

VPR Team Members

Contact for	Name	Email	Primary Phone(s)
Greenland operations	Robin Abbott	robin@polarfield.com	Denver: 303.748.8507 Greenland: 011.299.524218
Greenland operations	Mark Begnaud	mark@polarfield.com	Denver: 720.320.6160 Greenland: 011.299.524281
Medical	Jason Buenning	jason@polarfield.com	Denver: 303.638.6669
Denver operations	Jill Ferris	jill@polarfield.com	Denver: 720.320.6155
Scotia Operations & Customs	Earl Vaughn	earl.vaughn@nyscot.ang.af.mil vprscotia@direcway.com	Scotia: 518.331.3103

VPR Offices

Denver	Kangerlussuaq	Scotia	Summit
VECO Polar Resources 8392 S. Continental Divide Rd. #104 Littleton, CO 80127-4268 Tel: 303.984.1450/1439 Fax: 303.984.1445	VECO Polar Resources Attn: Name of Employee/Researcher Postboks 1015 DK-3910 Kangerlussuaq, Greenland Tel: 011.299.841598 Fax: 011.299.841599	Earl Vaughn C/O 109 th Aerial Port Bldg. 20 Stratton Air Base Scotia, NY 12302-9752 Tel: 518.331.3103 Fax: 518.884.2904	VECO Polar Resources Attn: Name of Employee/Researcher Postboks 1015 DK-3910 Tel: 321.953.9650 Fax: 321.953.9651

Other

Organization	Internet	Phone
Summit Science Coordination Office	http://www.geosummit.org sco@geosummit.org	N/A

- Safety, Environment, Health, and Permitting •

Permits

Please refer to VPR's *Greenland Guide*, available at <http://www.vecopolar.com> under Greenland, for information about permits required to conduct fieldwork in Greenland.

Medical Clearance

Arctic Program participants traveling into the Greenland field are generally required to pass a National Science Foundation (NSF) mandated physical exam. All field team members should plan to complete their medical clearance process 8-6 weeks prior to their travel to Greenland. For more information refer to VPR's *Greenland Guide*, available at <http://www.vecopolar.com> under Greenland.

- Critical Success Factors •

Please list the factors that are most important for the success of your science. We track these factors in order to measure the success of VPR's support. Examples might be the availability of the helicopter or camp gear.

Factors
<i>Please identify factors...</i>

- Government Performance and Reporting Act of 1993 (GPRA) •

NSF/OPP requires your help in complying with the Government Performance and Reporting Act of 1993 (GPRA). One measure of VPR's performance is a "facility-performance metric" which counts the number of productive days your project has in the field while relying on VPR facilities or support. Please keep track of any "lost days" and report these to us at the end of the season.