

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. Atsumu Ohmura
Institution	Swiss Federal Institute of Technology (ETH), Institute for Atmospheric and Climate Research
Project Title / Grant #	BSRN-compatible irradiance measurements and the stable boundary layer (CHAntenna)
NSF Program and Manager	Intl - Swiss NSF, Mr. Simon Stephenson
VPR Project Manager	Sandra Starkweather

• Logistics Summary •

This work involves ongoing studies of the Earth's boundary layer at Summit, Greenland.

In 2000, a team of six installed a 50-meter tower at Summit Station. In 2001, the team returned early in the field season to install a suite of meteorological instruments on the tower. Measurements began during the summer, and continued throughout the winter by a member of the team.

In the summer of 2002, boundary layer measurements continued. After a severe storm knocked over the 50-meter tower during the winter, the team turned its prime research focus in 2003 to the investigation of the heat balance of the snow cover and detailed observations of the radiation and temperature profiles in snow. These measurements continued in 2004. In addition, the team rebuilt the tower to 35 meters for future installation of a suite of meteorological instruments.

In 2005 a team of two traveled to Summit on 2 May to dismantle the project's equipment in the Green House in preparation for the uplift of that building. In mid-June, a team of 3-4 returned to reinstall equipment, conduct extensive studies of the radiation characteristics of the snow cover, collect missing data sets to capture the whole picture of the snow reflectant characteristics, extend the tower to 50 meters for boundary layer studies, and maintain and monitor radiation balance experiments.

In 2006 a team of two will maintain the BSRN-Radiation station, update hard- and software to fulfill BSRN standards. The setup for boundary layer measurements will be completed with a new power- and dataline system. In addition a test setup for new heated wind and turbulence instruments will be introduced to evaluate possibilities for (near) maintenance free measurements.

VPR will coordinate the team's travel to Summit, and provide accommodations at Kangerlussuaq and Summit. VPR will also provide a dedicated weatherport for the team.

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=CHAntenna

• Outstanding Issues •

Issue	Responsibility	Date Completed
Review support plan for accuracy and distribute to all field team members	PI	4/28/06
Obtain all necessary permits for fieldwork	PI	pending
Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	4/28/06
Contact the GEOSummit Science Coordination Office (SCO) mailto:sco@geosummit.org regarding your project's plans for the season	PI	5/4/06
Medical Clearance completed 8-6 weeks before desired deployment date	Field Team Members	Forms sent to NSF, clearance pending
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	4/28/06

• Allocations & Services •

Allocations from Inventory

Quant/Unit	Item
1 ea	Swiss weatherport
4 ea	tables
3 ea	chairs
5+5 linear feet bench	Green House space
1 ea	Berthing facilities in Swiss weatherport or berthing weatherport

Other Services

Project Allocations	Comments
Warehouse work space, Kangerlussuaq	Use of warehouse workshop space to service wind turbine / 1 day / 05/17/06

• 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.

• 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 go 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).
- ✓ Customs instructions are available on our website at <http://www.vecopolar.com> (go to Greenland > Customs)
- ✓ For Customs requirements please refer to the *Greenland Guide*, also available at <http://www.vecopolar.com> under Greenland.

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

Cargo List

Items	Weight/Cube
Tools, Instruments, Construction mat.	app. 200lbs / 70 ft3 max

• Support Schedule •

Date	Location	Activity
05/16	Kangerlussuaq	Field team arrives in Greenland
05/17	Kangerlussuaq	Field team will service wind turbine, request Kanger warehouse space.
05/18	Swiss Camp	Field team travels to Swiss Camp
05/18 to 05/23	Swiss Camp	Field team is stationed at Swiss Camp
05/23	Kangerlussuaq	Field team returns to Kangerlussuaq, overnight.
05/24	Summit	Construction crew will have completed erecting and powering the Swiss weatherport. VPR camp staff will have the weatherport stocked with tables, chairs and any other requested items.
05/24	Summit	Field team arrives at Summit
05/24 to 06/06	Summit	Field team will complete seasonal tasking based out of Swiss weatherport and Green House.
06/06	Summit	Field team returns to Kangerlussuaq
06/08	Kangerlussuaq	Field team returns to Europe via commercial air.

• Field Team Information •

Name	Location	Date In	Date Out	Email
Frei, Hansjoerg	Kangerlussuaq	05/16/06	06/08/06	hansjoerg.frei@env.ethz.ch
Frei, Hansjoerg	Swisscamp	05/18/06	05/23/06	
Frei, Hansjoerg	Summit	05/24/06	06/06/06	
Schroff, Karl	Kangerlussuaq	05/16/06	06/08/06	karl.schroff@env.ethz.ch
Schroff, Karl	Swisscamp	05/18/06	05/23/06	
Schroff, Karl	Summit	05/24/06	06/06/06	

• Project Contact Information •

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Atsumu Ohmura	ohmura@env.ethz.ch	44 632-8283 / 44 632-1311
Field Coordinator	Karl Schroff	karl.schroff@env.ethz.ch	44 632-8268

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
Summit operations	Sandy Starkweather	sandy@polarfield.com	Denver: 303.518.8714
Medical & MAS	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@hughes.net	Scotia: 518.331.3103

VPR Offices

Denver	Kangerlussuaq	Scotia	Summit
VECO Polar Resources Western Office 8110 Shaffer Parkway Suite 150 Littleton, CO 80127 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 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	John Burkhart 209.658.7142

- 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 •

Factors
Weatherport up and ready to occupy on May 23

- 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.