

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
Institute	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	Robin Abbott

• Logistics Summary •

This project is for 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 to camp early in the field season to install a suite of meteorological instruments on the tower. Measurements were begun during the summer, and continued throughout the winter by a member of the team.

In summer of 2002 boundary layer measurements continued. After a severe storm knocked over the 50 meter tower during the winter of 2002/2003, the team turned their 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 their tower to 35 meters for future installation of a suite of meteorological instruments.

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

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	
Obtain all necessary permits for fieldwork	PI	
Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	
Contact the GEOSummit Science Coordination Office (SCO) mailto:sco@geosummit.org regarding your project's plans for the season	PI	Done
Medical Clearance completed 8-6 weeks before desired deployment date	Field Team Members	Schroff, Bourgeois, Frei and Hofer
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	
Please notify Robin Abbott in Kangerlussuaq when your cargo has been shipped to Greenland. A tracking number must be provided at that time.	PI	
Complete Critical Success Factors	PI	

• Allocations & Services •

Allocations from Inventory

Quant/Unit	Item	Comments
Qty	Use of warehouse workshop in Kanger to service wind turbines	Will be available as requested at the end of July or mid-Aug
1 ea	Dedicated weatherport, 8 x 25 ft, located 100m north of the Swiss Tower.	
Qty	Shared Greenhouse space for lab work	The Greenhouse will be unavailable between mid-May and early June. *
5	Tables – 6 ft	
4	Chairs	
1	Tents (Arctic Oven 8 x 8) - will be available for accommodation	
Qty	Sleeping pads	
1 ea	Dedicated room in the berthing module (June) or your weatherport available for sleeping accommodations.	
Qty	Floor space in Summit shop for tower extension work	Beginning to mid-July would be available after shop has been relocated

* For a detailed description of the planned building uplift project, go to <http://www.vecopolar.com> and navigate to Greenland > Science Project Plans. The plan should be available after April 15th.

Other Services

Project Allocations	Comments
The VSAT satellite link at Summit is providing a continuous 64 kbps network connection and telephone service at reasonable rates. Your project will have access to the Internet connection and associated services. It is our suggestion that you bring your own laptop with an open PCMCIA card slot. Wireless PC access cards will be available for loan during your stay at Summit	

<p>A cargo line will be provided to the researchers for storing shipping cases, gas cylinders, and spare materials. Some indoor heated storage for supplies and spare parts will be provided for items that cannot be frozen.</p>	
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• 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 •

Cargo List

Items	Weight/Cube
<p>Please notify Robin Abbott in Kangerlussuaq when your cargo has been shipped to Greenland. A tracking number must be provided at that time.</p>	

• Support Schedule •

- 29 April - two field team members arrive in Kanger from Copenhagen (Schroff, Maeder)
- 02 May - two team members fly to Summit Station
- 05 May - two team members depart Summit Station and return to Kangerlussuaq
- 06 May? – two team members depart Kangerlussuaq via Copenhagen to Zurich
- 11 June? – three team member arrive in Kanger from Copenhagen (Schroff, Bourgeois, Hofer)
- 13 June – three team members fly to Summit Station
- 12 July - one team member flies to Summit Station? (Frei) (possible departures from Summit)
- 28 July - possible departure date from Summit
- 09 Aug - possible departure date from Summit.

• Field Team Information •

Name	Location	Date In	Date Out	Email
Karl Schroff	Kangerlussuaq	4/29/2005	5/06/2005 ?	karl.schroff@env.ethz.ch
Karl Schroff	Summit	5/02/2005	5/05/2005	
Karl Schroff	Kangerlussuaq	6/11/2005	TBD	
Karl Schroff	Summit	6/13/2005	TBD	
Anna Maeder	Kangerlussuaq	4/29/2005	5/06/2005 ?	
Anna Maeder	Summit	5/02/2005	5/05/2005	
Denise Hofer	Kangerlussuaq	6/11/2005	TBD	
Denise Hofer	Summit	6/13/2005	TBD	
Saskia Bourgeois	Kangerlussuaq	6/11/2005	TBD	saskia.bourgeois@env.ethz.ch
Saskia Bourgeois	Summit	6/13/2005	TBD	
Hans Joerg Frei	Kangerlussuaq	TBD	TBD	
Hans Joerg Frei	Summit	TBD	TBD	

• Project Contact Information •

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Dr. Atsumu Ohmura	atsumu.ohmura@env.ethz.ch	41-635-5220/41-362-5197
Field Coordinator	Mr. Karl Schroff	karl.schroff@env.ethz.ch	41-635-5225

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.af.mil yprscotia@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 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.

Factors
Weatherport up and ready to occupy by the beginning of May
Floor space in garage at Summit

• 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.