

Please review all of the following information, including the gear allocations and field team information, to ensure accuracy. This plan is an agreement between CH2M HILL Polar Services (CPS) and your group, documenting the logistics support you will receive.

PROJECT INFORMATION

Lead Principal Investigator	Giovanni Muscari
Institute	University of Rome "La Sapienza" and INGV
Project Title / Grant #	Millimeter-wave spectrometer at Thule (GBMS)
NSF Program and Manager	IT\Research\Higher Ed\U. Rome, Ms. Renee Crain
PFS Project Manager	Susan Zager

LOGISTICS SUMMARY

In contribution to the IPY ORACLE-03 program and the Network for the Detection of Atmospheric Composition Change (NDAAC), collaborators from U. Rome, the Istituto Nazionale di Geofisica and Vulcanologia (INGV), and possibly SUNY at Stony Brook, will operate a millimeter-wave spectrometer (GBMS) and a LiDAR at Thule Air Base during the IPY winters of 2007/2008 and 2008/2009. During each of these seasons, three to four researchers will spend about three months at Thule.

Early the second week of January 2009, the PI and a colleague will travel to Thule Air Base and establish a presence (the PI will remain at Thule for the duration of the field season while other personnel rotate through). After initial set up is complete several days later, the first of two shipments of liquid nitrogen will arrive (to be used to maintain data quality). About January 22, two additional personnel will arrive at Thule to assist with the experiment; a week later, one from the initial team will depart Thule. In early February, a second shipment of LN2 will resupply the experiment stocks, and a field team member will depart the station several days later. The PI will remain on station with one colleague to complete the experiment, and both will depart about 6 March.

CPS will arrange for Thule clearances, cargo on Airbus and AMC, shipment of LN2, and provide reimbursable AMC tickets. CPS will recoup costs via direct-bill arrangement with the PI (see Appendix for a cost estimate). The investigators will arrange for and pay all other logistics expenses from their grant(s).

For the complete CPS online project record for this grant, including science objectives, go to:
http://www.polar.ch2m.com/arlss_reports/arlss_projectsdetail.aspx?cbpropnum=GBMS

OUTSTANDING ACTIONS AND NOTES

Issue	Responsibility	Completed
Review support plan for accuracy and distribute to all field team members	PI	
Obtain all necessary permits for fieldwork	PI	
Obtain Danish Ministry permissions	PI	Done
Obtain USAF permissions	PFS	Processing
Visit all hyperlinks and review all documents referred to in the support plan	Field Team	
Ship cargo via Airbus	PI/PFS	10 Nov 08, 17 Dec 08
Write PO, purchase and arrange for shipment of LN2	PFS	Done
Schedule housing at Bldg. 353 in Thule	PFS	Done
Maintain housing in good condition during stay	PI	
Provide for Internet use at Bldg. 353	PFS	

Provide storage/warehousing in Bldg. 628	PFS	Done
Provide cost estimate for billable support	PFS	Done-see Appendix
Develop a purchase order with CPS prior to field work	PI	
Provide bill for actual support	CPS	
Provide clearance information for field team members	PI	Done
Complete Critical Success Factors	PI	Done

ALLOCATIONS AND SERVICES

CPS will provide the following support on a direct-billable basis.

Project Allocations	Comments
AMC freight for cargo and LN2	Two LN2 shipments arranged
AMC tickets	Travel to/from Thule

SUPPORT SCHEDULE

Approximate Date	Activity
08 Jan	Claudio & Giovanni BWI-THU
Week of 12 Jan	First LN2 shipment
22 Jan	Giorgio & Claudia BWI-THU
30 Jan	Claudio THU-BWI
Week of 02 Feb	Second LN2 shipment
06 Feb	Giorgio THU-BWI
06 Mar	Claudia & Giovanni THU-BWI

For the most up-to-date information on the project's schedule, please view the online [Greenland calendar](http://www.polar.ch2m.com/) (<http://www.polar.ch2m.com/> > Greenland > Calendars/Schedules).

FIELD TEAM INFORMATION

Name	Location	Date In	Date Out	Email
Giovanni Muscari	Thule Bldg. 353 and 216	8 Jan 09	6 Mar 09	muscari at ingv.it
Di Sarra, Alcide (Giorgio)	Thule Bldg. 353 and 216	22 Jan 09	06 Feb 09	
Di Biagio, Claudia	Thule Bldg. 353 and 216	22 Jan 09	06 Mar 09	
Cesaroni, Claudio	Thule Bldg. 353 and 216	08 Jan 09	30 Jan 09	

PROJECT CONTACT INFORMATION

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Giovanni Muscari	muscari at ingv.it	+390651860724

CPS Team Members

Contact for	Name	Email	Primary Phone(s)
Thule operations	Susan Zager	Susan at polarfield.com	720.320.6159

Denver operations	Jill Ferris	Jill at polarfield.com	720.320.6155
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CPS Offices
Denver

CH2M HILL Polar Services
 Western Office
 8110 Shaffer Parkway
 Suite 150
 Littleton, CO 80127
 Tel: 303.984.1450/1439
 Fax: 303.984.1445

SAFETY, ENVIRONMENT, HEALTH and PERMITS

Permits

All science teams planning to conduct research in Greenland must complete an **annual application** in order to obtain approval from the Danish Polar Center (DPC). The application forms are available from the DPC at <http://www.dpc.dk/>. Applications are submitted directly through the DPC. For assistance with the application process, contact:
 Poul Henrik Sorensen
 E-mail: [phs at dpc.dk](mailto:phs@dpc.dk)
 Telephone: +45 3288 0100

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 CPS' support. Examples might be the availability of the helicopter or camp gear.

Factors

On time delivery of the largest possible amounts of LN2. The 150L dewar containing LN2 should be full when leaving McGuire.
CPS note: Though we have arranged for the dewar to be full when delivered to McGuire, some off-gassing must be expected as the supply travels all the way to point of use.

GOVERNMENT AND PERFORMANCE 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 CPS' performance is a "facility-performance metric" which counts the number of productive days your project has in the field while relying on CPS facilities or support. Please keep track of any "lost days" and report these to us at the end of the season.