

PROJECT INFORMATION

Lead Principal Investigator	Noah Ashley
Institute	University of Alaska, Anchorage, Department of Biological Sciences
Project Title / Grant #	PostDoctoral Research Fellowship (0817635)
NSF Program and Manager	NSFOD\OPPVANT\PD, Dr. Roberta Marinelli
CPS Project Manager	Steven Hastings and Faustine Mercer

LOGISTICS SUMMARY

During two seasons of fieldwork (2009 and 2010) at Barrow, Alaska, the PI will study circadian rhythms of the Lapland Longspur. The work will include field and laboratory components to examine both natural variation in circadian function in free-living Lapland Longspurs that breed at high latitude, and to understand the molecular patterns of gene expression that regulate polar-based circadian oscillators.

The PI worked at Barrow in July and August of 2009.

For 2010, fieldwork will take place from May to July and the PI will conduct lab studies that are currently planned for the Barrow Arctic Research Center. Working with local high school students hired as field assistants, the PI will conduct field observations. The team also will capture some subjects for sampling and observation of live individuals at the University of Alaska, Anchorage. The team will use four-wheelers to access field sites. Prior to shipment, samples will be stored in the -80 deg C freezer space in building 360. CPS will provide weekly shipments of dry ice from Anchorage; the PI will pick these up and use them to ship samples back to his lab in Anchorage. Neurobiological analysis will be conducted at the University of California, Berkeley.

CPS is working with BTS Professional Services (BTSPS) and other local organizations to provide Barrow infrastructure support, including lodging, meals, lab space, equipment, vehicles, and safety gear. BTSPS has engaged the Barrow Arctic Science Consortium (BASC) to provide on-the-ground support in Barrow.

For the complete CPS online project record for this grant, including science objectives, go to:
http://www.polar.ch2m.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0817635

OUTSTANDING ACTIONS AND NOTES

Issue	Responsibility	Date Due	Date Completed/ Comment
Researchers are responsible for all permits required to conduct fieldwork, though assistance is available. Contact Glenn Sheehan to initiate the permitting process. Include any necessary permits required for 8' X 8' X 6' bird cages set on a blue tarp.	PI	Varying on complexity, from 2 weeks to 6 months to 2 weeks before arrival date	IACUC, state, and federal permits have been completed. Still awaiting approval from UIC and NSB
Researchers must initiate contact with all local and community organizations as appropriate to discuss and present their planned work (for example, whaling commission if research will occur during whaling season). Contact Glenn Sheehan for assistance in making these contacts.	PI	As early as possible before arrival date, at least 1 month ahead	As above, clearance to conduct research at NARL and UIC is still pending

Notify BASC via email (ship_at_arcticsscience.org) with tracking numbers for all shipments. Detailed shipping information can be found at http://www.arcticsscience.org/shipping.php	Field Team Members	As soon as shipment information is available	4/27/09
Identify any hazardous materials and develop a plan describing their disposal by completing the form found at the following link: http://www.arcticsscience.org/images/cheminblank.xls .	PI	At least 3 weeks before desired arrival date	Dry ice will be shipped up whenever needed. PI will go pick it up at NAC.
Note: For long distance calls from Barrow, researchers should plan to bring phone cards or use their personal cell phone. Only certain cell phone suppliers work in Barrow (At&T, ACS, GCI, Verizon. For more information, please contact your supplier).	Field Team Members		
Make housing reservation and select meal plan	Field Team Members	3 weeks before desired arrival date	PI requested 10 additional user days for the tail end of field season to help wrap things up.
Note: For researchers selecting meal plan options 2 or 3: Cafeteria prices are \$53 per day for the Pay Up Front Plan (plan 2) and \$15 per day for the Hybrid Plan (plan 3). Hence, daily reimbursements for those researchers who have selected plan 2 will be \$53, and \$15 for those who have selected plan 3.	Field Team Members		
Keep boarding passes for meal reimbursements. Keep receipts for any other agreed-upon reimbursable expenses. Turn them in to Faustine Mercer (see contact info below) as soon as your fieldwork is complete.	Field Team Members	As soon as fieldwork is complete	
Please be prepared to attend an orientation with CPS/BTS and a BASC in brief upon arrival	Field Team Members	Upon arrival	
Research group is responsible for the retrograde of all grant-owned equipment from lab spaces and storage areas at end of grant period.	PI	Before leaving Barrow	Note: PI will donate the two aviaries used last year to researchers in the future needing to hold birds or other animals in enclosures

FIELD TEAM INFORMATION

Name	Location	Date In	Date Out	Email
Ashley, Noah	Barrow	5/24/10	7/2/2010	apnta at uaa.alaska.edu
Local Student #1	Barrow	5/26/10	7/2/2010	TBD
Local Student #2	Barrow	5/26/10	7/2/2010	TBD
Brady Salli	Barrow	6/23/10	7/2/2010	bmsalli at uaa.alaska.edu

ALLOCATIONS AND SERVICE

The below tables describe the NSF-approved support scope for your project. Your support will be managed to these allocation levels. Requests to exceed this scope will require NSF approval. The Scope Management Policy is available here: <http://www.arcticscience.org/pdf/BarrowScopePolicy.pdf>

Housing & Meals

Support	Description	Unit	Allocation	Request	Comment
Housing	6/21/2010-7/2/2010	Days	45	15 days at Dario's + 10 days student	Staying in married housing till wife leaves for post-Doc on June 21st. Request additional 10 days for undergraduate student (see above)
Meals	5/23/20/10-7/2/2010	Days	45	41 + 10	10 additional for undergraduate student
Meals (lunches only, 45 days x 2 people)	5/2620/10-7/2/2010	Days	90	76	For Barrow HS student assistants

All team members should familiarize themselves with the Housing / Reservations Policy and the Meals policy at their earliest convenience. The complete policies can be found online at:

- <http://www.arcticscience.org/pdf/barrowreservationhousingpolicy.pdf>
- <http://www.arcticscience.org/pdf/barrowmealpolicy.pdf>

Make housing reservations and select a meal plan at least 3 weeks prior to your arrival date. The reservations form is available here:

- <http://spreadsheets.google.com/viewform?hl=en&formkey=cDcxU2ZhNmI0dy1mZ0FYQnNhLTiiUIE6MA>

Confirmed reservations can be viewed here:

- <http://spreadsheets.google.com/pub?key=p71Sfa6itw-fgAXBsa-9bRQ>

Lab Space

Support	Description	Unit	Allocation	Request	Comment
BARC lab space	House 1 8'x8'x6' bird cage and to do blood analysis	Days	40	40	Needs tarp on bottom of cage to catch droppings from birds
-80 freezers	Temporary storage of samples	Days		As needed	On an as-needed basis

Vehicles

Support	Description	Unit	Allocation	Request	Comment
Truck	5/24-7/2/2010	Days	45	40	To visit sites, oversee students
ATV	5/26- 7/2/2010	Days	90	76	For students to do field work. Need PSE

Information Technology

Support	Description	Unit	Allocation	Request	Comment
Standard Internet access	Periodic use by PI and students				Available in the huts, at the BARC facility, in the college and at Dario's
Radio	3 people x 45 days	Days	135	135	For 24 hour coms

Other Services

Support	Description	Unit	Allocation	Request	Comment
Student Stipends	2 for 1.5 months	Days	90	76	\$15.00/hr
Dry ice	25lb each shipment	Ea	6	6	To be picked up by PI. 25 lb dry ice from Anchorage.
Dry ice freight	Northern Air Cargo	Ea	6	6	Shipping fee covered by CPS

For expense reimbursements please contact Faustine Mercer. See Project Contact Information, below.

Permits

Support	Description	Unit	Allocation	Request	Comment
NSB Permit	Regulatory	Ea	1	1	CPS covers fees. Contact Glenn Sheehan at least 2 weeks before arrival to issue the permit.
UIC Permit	Land Use	Ea	3	3 or 4	UIC shareholder will not need a UIC permit. CPS covers fees. Contact Glenn Sheehan at least 2 weeks before arrival to issue the permits.
Federal Migratory Bird Permit	Regulatory	Ea	1	1	Approved (no CPS support)
IACUC approval	Regulatory	Ea	1	1	Approved by UAA (no CPS support)
Federal Bird Banding Permit	Regulatory	Ea	1	1	Approved (no CPS support)
State of Alaska Scientific permit	Regulatory	Ea	1	1	Approved (no CPS support)

PROJECT CONTACT INFORMATION
Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Noah Ashley	apnta at uaa.alaska.edu	907 575-7511 /907 852-6616

BTSPS/BASC/CPS Team Members

Contact for	Name	Email	Primary Phone(s)
New science requests, scope changes to existing requests – CPS	Steve Hastings	steve at polarfield.com	907.852.0904 (v) 907.388.0565 (c)
Expense reimbursements, BTS and BASC liaison - CPS	Faustine Mercer	faustine at polarfield.com	907.852.0904 (v) 907.750.1772 (c)

Barrow on the ground representative - BTSPS	Russell Snyder	Russell.Snyder at ukpik.com	907.855.0374 (c)
Lodging and lab assignments – BASC	Bryan Thomas	bryan.thomas at arcticscience.org	907.852.0903 (v) 907.367.3797 (c)
Station Management, Vehicles, Field Equipment, Temporary Labor - BASC	Lewis Brower	lewis.brower at arcticscience.org	907.852.0905 (v) 907.367.3813 (c)
IT Support - BASC	Brad Heaston	brad.heaston at arcticscience.org	907.852.0902 (v) 907.367.3836 (c)
Chief Scientist; Permitting and Local Community coordination – BASC	Glenn Sheehan	basc at arcticscience.org	907.852.4881 (v) 907.367.3815 (c)

Offices

Barrow/CPS	Barrow/BASC	BTSPS	Fairbanks/CPS	Denver/CPS
CH2M HILL Polar Services 360 NARL St. Room L-203 Box 947 Barrow, AK 99723	BASC 360 NARL St. Room L-206 Box 577 Barrow, AK 99723 T:907.852.4881 F:907.852.4882	615 E. 82 nd Ave. Suite 300 Anchorage, AK 99518 T:907.273.1817	CH2M HILL Polar Services Alaska Office 2325 King Rd. Fairbanks, AK 99709 T:907.455.4214 F:907.455.4126	CH2M HILL Polar Services Western Office 8110 Shaffer Pkwy Suite150 Littleton, CO 80127 T:303.984.1450 F 303.984.1445

RISK ASSESSMENT

See Appendix for Risk Factors and Mitigation.

CRITICAL SUCCESS FACTORS

During the planning stages for your project, your CPS PMs will work with you to identify the most crucial factors that must be in place upon your arrival. These factors will be documented in the below table. We track these factors in order to measure the success of CPS' support. Examples might be the availability of the helicopter or condition of camp gear.

Factors
- Assist PI for a timely delivery of dry ice
- Space for captive birds in a relatively undisturbed room in the BARC
- Aviary (presently in BASC storage) delivered to room where birds will be held
- ATVs and vehicle in working condition

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.

APPENDIX

RISK FACTORS and MITIGATION

Factor	Mitigation and Control
Bears	<ul style="list-style-type: none"> -Hire Native guides (Provide clear expectations/procedure) -Install bear fence. Designate a fence monitor to check daily. -Carry radios to alert others to bear in area. -Develop a plan for bear in or near camp -Keep a clean camp -Participate in bear safety training -Carry bear spray -Use bear Containers
Cold Related Injuries-weather	<ul style="list-style-type: none"> -Team members participate in a cold weather injury training course such as Wilderness First Aid or Wilderness First Responder -Wear proper clothing -Appropriate camping gear, insure sleeping bags are adequately rated -Check the forecast before going out of camp/town -Watch the weather while out -Be mindful of hydration, carry sufficient food -Develop and share your travel plans -Have and share an emergency plan for bad weather
Hazardous Materials	<ul style="list-style-type: none"> -Haz Comm SMS (Safety Management Standard) -Identify items for hazardous material transportation -Review MSDS (Material Safety Data Sheet)
Truck Travel	<ul style="list-style-type: none"> -Participate in truck training -Do not ride in the bed of the truck -Insure the truck has spare tire and jack for extended trips -Carry survival gear and warm clothes for extended trips -Carry a radio for extended trips
ATV Travel	<ul style="list-style-type: none"> -Participate in ATV training -Use appropriate PPE (Personal Protection Equipment)/Helmets