

Peter Griffith



The Carbon Cycle & Ecosystems Office and the ABoVE Science Team

Dr. Libby Larson- Agencies & Stakeholders

Dan Hodkinson- Field Operations

Dr. Liz Hoy- Science Cloud

Jessica Bussard- Stage Manager

A few collaborators here today...

- Bob Cook, ORNL DAAC
- Anita Davis, NASA Earth to Sky Partnership

NASA has selected an excellent group of investigators through a highly-competitive peer-review process. AND two experienced science team leaders were appointed.

BUT the ABoVE domain is large, our scientific aspirations are challenging, and field campaigns are complex.

THEREFORE, NASA created a support team within the CCE Office to coordinate efforts and accelerate science. Science team members should plan to work closely with the CCE Office and rely upon our guidance for field operations, permitting, and safety; communications with local and regional stakeholders and authorities; and utilization of ABoVE cyberinfrastructure.

Carbon Cycle & Ecosystems Office... where we came from

BOREAL ECOSYSTEM-ATMOSPHERE STUDY



The BOREAS Information System

Boreal Ecosystem-Atmosphere Study

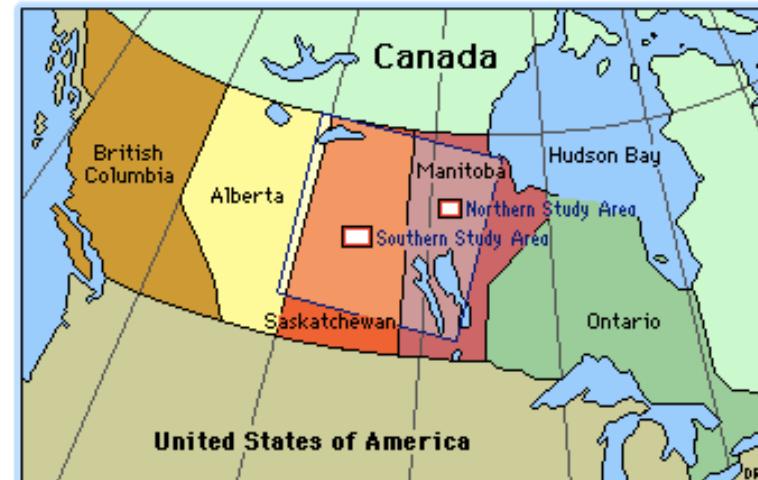


NASA, NOAA, NSF, EPA



NSERC, CCRS, NRC, CFS
Environment Canada,
Agriculture Canada

Goddard Space Flight Center
Greenbelt, Maryland, USA



Map of Canada showing the BOREAS Study Region and the Northern and Southern Sites.
Click on a site to visit that sites page (Netscape 2.0 or higher)

Carbon Cycle & Ecosystems Office... where we came from

1998-2010

LBA-ECO

a component of the
Large-Scale
Biosphere-
Atmosphere

Experiment in
Amazonia

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Investigations

Overview
Abstracts & Profiles
Publications
Research Sites
Meetings
Synthesis Groups
LBA-HYDROMET
LBA-Air-ECO

Logistics

Overview
Field Support
Travel
Visa

About this Website

This website is a snapshot, as it existed in 2013, of the LBA-ECO website maintained by NASA Goddard Space Flight Center.

Project Summary

Read the [LBA-ECO Summary](#) that includes:

- Why the Amazon?
- The LBA Project
- LBA-ECO Science Approach
- Phases & Objectives
- Conclusions
- Results

Highlights

Peer-Reviewed Publications

Over 650 peer-reviewed papers, chapters and special issues

Amazonia and Global Change

200+ Documented Data Sets

Carbon Cycle & Ecosystems Office... what we are now



National Aeronautics and Space Administration

- > Visit NASA.gov
- > Visit NASA's Terrestrial Ecology Website



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NASA Carbon Monitoring System



A CORE ELEMENT OF THE U.S. GLOBAL CHANGE RESEARCH PROGRAM

North American Carbon Program

CONTINENTAL CARBON BUDGETS, DYNAMICS, PROCESSES, AND MANAGEMENT

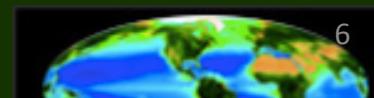
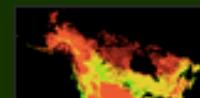
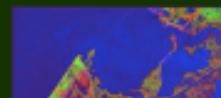
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Carbon Cycle & Ecosystems



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Where do ABoVE Projects come from?

Solicitation/Partner	Count
Terrestrial Ecology (2014)	21
Pre-ABoVE (2013)	5
Carbon Monitoring System (2013)	1
Carbon Cycle Science (2013)	2
Rapid Response (2014)	1
IDS (2012)	1
DOE NGEE-Arctic	1
Canadian High Arctic Research Station	1

Science Team Member Organizations

Organization Type	Country	Count
University	USA	45
University	Canada	8
University	Sweden	1
University	UK	1
Federal Agency	USA	6
Federal Agency	Canada	6
Federal Agency	Germany	3
Federal Agency	Japan	1

Organization Type	Country	Count
Independent Non-profit	USA	1
Independent Non-profit	Canada	1
Provincial Agency	Canada	1
State Agency	USA-Alaska	1
Territorial Agency	Canada	2
Native Organization	USA	1
Native Organization	Canada	1

Agencies

US FEDERAL

US Forest Service

Fish & Wildlife Service

US Geological Survey

National Park Service

NASA

NOAA

US Dept of Energy

US STATE

Alaska Department of
Fish and Game

CANADA FEDERAL

Canada Forest Service

Canadian High Arctic
Research Station (CHARS)

Environment Canada

Natural Resources Canada

Parks Canada

Polar Knowledge Canada

GERMANY

Alfred Wegener Institute
Helmholtz Centre for
Polar and Marine
Research

GFZ German Research
Centre for Geosciences

Max-Planck-Institute for
Ornithology, Radolfzell

JAPAN

National Institute for
Environmental Studies

Agencies (cont'd)

CANADIAN PROVINCIAL AND TERRITORIAL

Alberta Government - Environment and Sustainable Resource Department

GNWT Government of the Northwest Territories

Yukon Department of Environment

Yukon Government Wildland Fire Management

NGOs & COMPANIES

Senckenberg Gesellschaft fuer Naturforschung

ABR, Inc. Environmental Research

Alaska Ecoscience

Atmospheric and Environmental Research

H. T. Harvey & Associates

US- Woods Hole Research Center

Canada- Lesser Slave Lake Bird Observatory

NATIVE ORGANIZATIONS

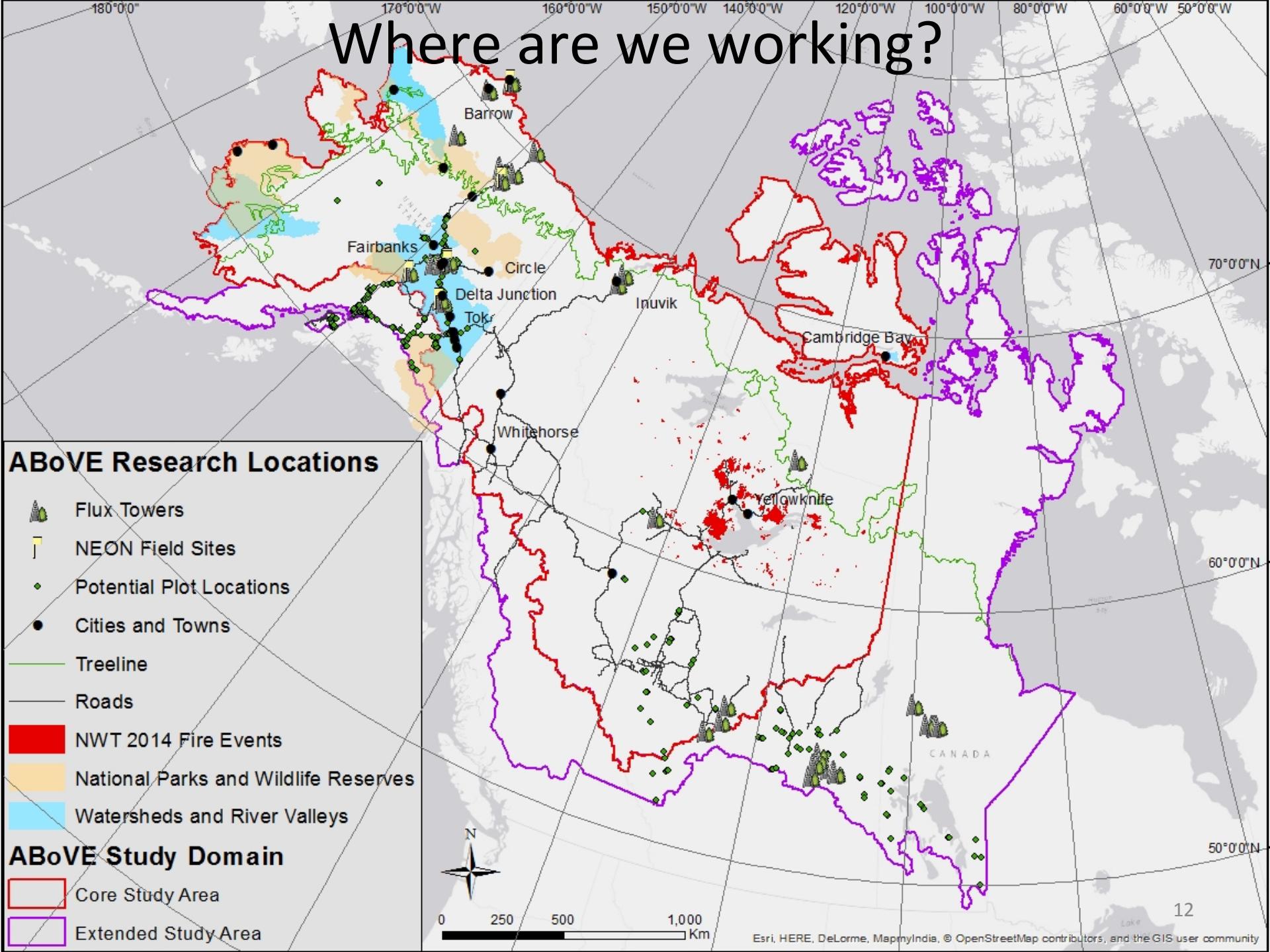
US- Calista Elders Council

Canada- Gwich'in Renewable Resources Board

ABoVE Projects Tier 2 Questions

Science Questions	Number of Projects
Carbon Pools	19
Disturbance Regimes	13
Ecosystem Services	6
Flora and Fauna	14
Hydrologic System	9
Permafrost	6

Where are we working?



Help us help you!



ABoVE Project Profile Update Tool

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PROJECT: Boelman-01

Funding Dates: 2015-08-01 to 2018-12-31

Project Type: Core

Solicitation: Terrestrial Ecology (2014)

Joined: 2015

Last revised on 2015-08-31 14:50:50

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Project Title

Animals on the move: Remotely based determination of key drivers influencing movements and habitat selection of highly mobile fauna throughout the ABoVE study domain

Project Fieldwork



Will anyone on your project be working in the field?

Yes
 No

Start: 2016-01-01



Period:
2016-SP
2017-SP
2018-SP

Project Websites (One URL per line)

Please enter each URL on a new line...

Science Questions



- Ecosystem Services
- Disturbance Regimes
- Permafrost
- Hydrologic System
- Flora & Fauna
- Carbon Pools

Science Objectives: Ecosystem Dynamics



- Permafrost Vulnerability/Resilience
- Microbes, Plants, Animal Interactions
- Vegetation, Hydrology, Disturbance Interactions
- Snow Impacts
- Vegetation Greening and Browning
- Controls on Carbon Biogeochemistry
- Changes to Fish and Wildlife Habitat

Science Objectives: Ecosystem Services



- Transportation & Infrastructure
- Human Health
- Subsistence
- Land Management
- Climate Regulation
- Ecosystem Services Interactions



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