



ICEBERG Users Workshop

September 16 – 18, 2019
Stony Brook, NY

Welcome! Thank you for attending the ICEBERG Users Workshop. This document is meant to provide information about your trip to Long Island and Stony Brook University. Details about the agenda, local resources, transportation, and contact information are provided here for your reference.

Dr. Heather Lynch, Stony Brook University, heather.lynch@stonybrook.edu

Dr. Shantenu Jha, Rutgers University, shantenu.jha@rutgers.edu

Many thanks to the Institute for Advanced Computational Science (IACS) for hosting the meeting and assistance in planning, particularly **Robert Harrison, Sarena Romano, and Lynn Allopenna.**

For disability-related accommodations please contact Heather Lynch.

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Contact Information and Addresses

ICEBERG website: <https://iceberg-project.github.io/index.html>

Heather Lynch Cell: (301) 974-2993, heather.lynch@stonybrook.edu

Brad Spitzbart Cell: (617) 257-3986, bradley.spitzbart@stonybrook.edu

IACS: (631) 632-4629, <https://iacs.stonybrook.edu/>

Stony Brook University Police (non-emergency): (631) 632-3333

Campus Security Escort: (631) 632-9255

Hilton Garden Inn: (631) 941-2980, 1 Circle Road, Stony Brook, New York, 11794, USA,

<https://hiltongardeninn3.hilton.com/en/hotels/new-york/hilton-garden-inn-stony-brook-ISPSBGI/index.html>

Transportation

<https://www.stonybrook.edu/commcms/lslr/info/travel.html>

- From MacArthur Airport (ISP): MacArthur Airport is located in Islip, about 15 miles away from Stony Brook. It is most easily accessible by car. Uber is generally \$30-\$40. You can also take the Suffolk County Bus S57 to the Smith Haven Mall (final stop). There you can transfer to the S60, where you will get off at the University Administration Building, or the 3D, where you will get off at the University Student Union.
- From John F. Kennedy Airport (JFK): To get to Stony Brook University from John F. Kennedy Airport you can take the AirTrain to the Jamaica stop, and then take the Long Island Rail Road (LIRR) heading to Port Jefferson. Depending on the time of day, you may have to transfer at Hicksville or Huntington, remaining on the Port Jefferson Line heading to Port Jefferson. Arrive at Stony Brook Station. The best way to pay for both the AirTrain and LIRR fares is to buy a combined ticket at the LIRR vending machines before leaving the Jamaica AirTrain stop. A shuttle pickup at the train can be arranged in advance with the hotel. Allow 1.5 to 2 hours travel time
- From LaGuardia Airport (LGA): From LaGuardia Airport you can take a taxi for approximately \$12 - \$14 to the closest Long Island Rail Road (LIRR) train station: the Woodside train station. From Woodside, you may take the LIRR to Stony Brook by transferring at the Jamaica train station. A shuttle pickup at the train can be arranged in advance with the hotel. Allow 1.5 to 2 hours travel time.

<https://new.mta.info/>



Full time rail station

Part Time rail station

Major Transit Hub

Accessible station

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Accommodation Details

Lodging is at the Hilton Garden Inn, on campus and indicated on the map on the next page.

Workshop Location

The workshop will be held in the IACS Seminar Room. It is a very short walk from the hotel. Cross Circle Road in front of the hotel, pass the parking garage on the right and follow the path around the Social and Behavioral Sciences building. Go up the stairs and IACS is on the right. Look for the blue awning. The main entrance and seminar room are on the opposite (south) side of the building.

<https://www.stonybrook.edu/about/maps-and-directions/>

Participant List

2019 ICEBERG Users Workshop attendees

Ryan Abernathey	Columbia University
Aymen Alsaadi	Rutgers University
Ehsan Bhuiyan	University of Connecticut
Alexandra Boghosian	Columbia University
Vena Chu	University of California, Santa Barbara
Chunli Dai	Ohio State University
Samira Daneshgar Asl	University of California, Santa Barbara
Helen Eifert	Northern Arizona University
Steven Foga	Polar Geospatial Center
Bento Goncalves	Stony Brook University
Shantenu Jha	Rutgers University
Hieu Le	Stony Brook University
Sasha Leidman	Rutgers University
Shane Loeffler	Polar Geospatial Center
Heather Lynch	Stony Brook University
Matthew McCarthy	University of South Florida
Xin Miao	Missouri State University
Rohi Muthyala	Rutgers University
Ioannis Paraskevagos	Rutgers University
Lincoln Pitcher	University of California, Los Angeles
Dexuan Sha	George Mason University
Brad Spitzbart	Stony Brook University
Brian Szutu	Northern Arizona University
Matteo Turilli	Rutgers University
Chandi Witharana	University of Connecticut

Workshop Agenda

September 16 – 18, 2019

Stony Brook, NY

Monday Sept 16, 2019

- 08:30 - 09:00 Breakfast/Coffee, introductions
- 09:00 - 09:30 ICEBERG overview/NSF, EarthCube, PGC synergies/Workshop agenda
- 09:30 - 10:00 Cyberinfrastructure/ICEBERG Middleware
Why is HPC needed for Satellite Imagery?
ICEBERG Middleware introduction
- 10:00 - 10:15 Break
- 10:15 - 11:30 XSEDE, SBATCH, CLI demos, parameter files, other technical details
How to create an execution environment
An example of ICEBERG middleware
Execute an example with one use case
- 11:30 - 01:00 Hands-on breakouts - set up XSEDE accounts, load data, create environments,
try code with assistance from PIs, developers.
- 01:00 - 01:45 Lunch and group picture
- 01:45 - 02:00 Pangeo – Ryan Abernathey
- 02:00 – 03:00 Science Use Case 1: Seals/Penguins
Science driver (30 - 40 min) – Heather Lynch, Bento Goncalves
ICEBERG solutions, algorithms, resources (20 - 30 min)
- 03:00 – 04:00 Science Use Case 2: Rivers
Science drivers (30 - 40 min) – Vena Chu, Samira Daneshgar Asl
ICEBERG solutions, algorithms, resources (20 - 30 min)
- 04:00 - 05:30 Reality Deck Tour/Q&A/Wrap-up day 1
- 6:00 Group dinner - Off campus

Tuesday Sept 17, 2019

- 8:30-9:00 Breakfast/Coffee
- 9:00 - 10:00 Science Use Case 3 Landcover
Science drivers (30 - 40 min) – Helen Eifert
ICEBERG solutions, algorithms, resources (20 - 30 min)
- 10:00 - 11:00 Science Use Case 4 Ice Wedge Polygons
Science drivers (30 - 40 min) – Chandi Witharana, Ehsan Bhuiyan
ICEBERG solutions, algorithms, resources (20 -30 min)
- 11:00 - 11:15 Break
- 11:15 - 12:45 Talks from non ICEBERG attendees on their science questions and needs
- 12:45 - 1:30 Lunch
- 1:30 - 2:00 Polar Geospatial Center – Shane Loeffler, Steven Foga
- 2:00-2:15 Others from EarthCube
- 2:15 - 4:30 Hands-on breakouts.
- 4:30 - 5:30 Q&A/Wrap-up day 2
- 6:00 Group dinner - On campus

Wednesday Sept 18, 2019

- 8:30 - 9:00 Breakfast/Coffee
- 9 - 10:00 Presentations of initial results, key findings
- 10:00 - 11:30 Discussion of next steps and ICEBERG enhancements desired by the scientific community/Wrap-up.
- CI team available for the rest of the day for further hands-on work/discussion