

Operation IceBridge
IceBridge Science Team
Terms of Reference



Goddard Space Flight Center
Cryospheric Sciences Laboratory
Code 615
Greenbelt, Maryland



ICEBRIDGE SCIENCE TEAM (IST)

The IST reports to the IceBridge Project and Program Scientists to provide expert scientific guidance to the IceBridge project on matters of science objectives and requirements, flight line planning, measurement strategies, data quality control, and data product development. The IST assists the Project by providing:

1. Final development of the Level-1 Scientific Requirements Document.
2. Evaluation of the IceBridge mission designs in achieving the goals defined by the Level-1 Scientific Requirements Document as requested by the NASA Program Scientist.
3. Support to the IceBridge Program Scientist and Project Scientist in the development of the required analyses, documentation, and reporting during the IceBridge mission.

The IST contributes to OIB science by:

1. Exploiting OIB data in support of a select set of science objectives.
2. Assuring a level of data and metadata reliability, cross-instrument compatibility and accessibility through use of the data in science investigations.
3. Encouraging broad use of the data by the science community in fulfillment of the extensive range of OIB science objectives.
4. Updating the science requirements and mission deployment plans as needed to make best use of the OIB instrumentation and platform assets.

The IceBridge Science Team (IST) consists of approximately sixteen scientists from NASA, other federal agencies, and the broader US research community with expertise in glaciers, ice sheets, and sea ice science. The IST is co-led by an ice sheet scientist and a sea ice scientist appointed for one-year rotating terms; appointments are made by NASA HQ.

The following list includes how IST is organized and what products and meetings they are responsible for: This source of this list is the "IST Terms of Reference" document, dated 10/15/10.

1. Team leaders are responsible for consolidating documentation, recommendations, and analyses, and providing that material to the Project Scientist.
2. The science team leads serve as co-chairs of science team meetings with 2 convened at the Goddard Space Flight Center and 1 at the Jet Propulsion Laboratory. Agendas are prepared by the science team leads. Logistical arrangements are the responsibility of the local hosts.
3. Team members participate in meetings and telecons as required. When there are scheduling conflicts, team members can appoint well qualified alternates (such as co-l's on their OIB proposal).



4. Science Team meetings include an open session for informing observers about OIB activities. Meetings include an executive session for dealing with IST mandated activities such as finalizing flight plans and schedules.
5. Meetings begin with a review of action items. The action item list is maintained by the science team leads.
6. Team members are encouraged to participate in project-organized outreach activities such as AGU town hall meetings.
7. Team members shall report to the Program Scientist using the usual mechanism of annual renewal proposals and as directed by the Program Scientist.
8. In contrast to OIB activities to date, neither the team leaders nor the team members are expected to participate in field deployments unless such work was previously proposed and approved.
9. The science team shall deliver level-1 science requirements to the Project and annually review and update the requirements as needed.
10. The science team shall deliver to the project recommended flight lines in support of the science requirements.
11. Individual team members will provide brief progress reports before each team meeting to the team leaders in the form of updates to one-page summaries.
12. Sub-groups of the IST will prepare reports and present activity summaries at IST meetings.
13. Science team members will make a best effort to be aware of OIB related publications by the science community and provide reference information to the Project.
14. The science team will prepare documents, analyses and other reports as required by the Project and Program scientists.