

## Beaufort Gyre Exploration Project: Investigators

### Principal Investigator



#### **Andrey Proshutinsky**

Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

The Principal Investigator of the Beaufort Gyre Exploration program is Andrey Proshutinsky, who is a Senior Scientist in WHOI's Physical Oceanography Department. Proshutinsky has more than 35 years of experience studying the Arctic Seas, and has produced numerous publications concerning the regional oceanography and meteorology, climate change, numerical modeling of ice and water dynamics, Arctic ocean tides and storm surges, and Northern Sea Route climatology and navigation conditions. He is responsible for the overall program coordination and scientific analyses. This includes organization of the workshops and field programs and collaborations with our international research team. In addition, Andrey is specifically focused on the project tasks associated with analyzing, interpreting, and publishing the ocean and sea ice dynamics results.

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### Team Members



#### **Rick Krishfield**

Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

Rick Krishfield is a Senior Research Specialist with extensive field experience in the Arctic. He is responsible for preparation of the instrumentation on the bottom-tethered moorings and buoys, participates on the deployment and recovery cruises, and assists Andrey with the data analysis and preparation of the results.

#### **Mary-Louise Timmermans**



Yale University, New Haven, Connecticut

Mary-Louise analyzes MMP measurements to understand Arctic Ocean mixing, property transports and circulation dynamics. She also coordinates her own activities in other NSF supported projects (ARC-0806306: "Manifestations and Consequences of a Changing Climate in the Arctic Ocean's Beaufort Gyre") with the BG studies and observations.

#### **John Toole**



Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

John Toole coordinates the BG program with the [Ice-Tethered Profiler](#) project, analyzes MMP and hydrographic data and consults on data managing and processing.

#### **John Kemp**



Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

John Kemp is a Senior Engineering Assistant and foremost expert on the design, construction, and installation of instrumented mooring systems of any type in any ocean, including the Arctic. John is responsible for the design and preparation of the moored systems, their deployment and recovery operations.

#### **Willie Ostrom**



Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

Willie Ostrom is a Senior Engineering Assistant who has extensive experience installing and recovering numerous mooring systems. Willie is responsible for deployment and recovery operations together with John Kemp.

#### **Kris Newhall**

Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

Kris Newhall is a member of the Mooring Operations Group who participates in the recovery and redeployment operations.



### Chris Linder



Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

Chris Linder is the education and outreach specialist for the project. He maintains the website and documented the 2005 field work through dispatches and photos. See more of his work at [www.chrislinder.com](http://www.chrislinder.com)

### Other personnel



Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

Other WHOI personnel who also contribute to the project are: Rick Trask, Steve Murphy, Jack Resse, Larry Costello, Scott WorriLOW, Brian Hogue, Jim Dunn, Jeff Pietro, Jim Ryder, Steve Lambert, Craig Marquette, Dan Torres, Paul Robbins, and Maryanne Lucas (among others).

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## Collaborators



### Fiona McLaughlin

Institute of Ocean Sciences, British Columbia, Canada

Fiona McLaughlin, a research scientist at IOS, is the lead investigator of the DFO-led JOIS program aboard the LSL. She is a geochemical oceanographer with twenty years field experience in the Canada Basin who uses tracers to investigate climate related changes in Pacific and Atlantic water mass properties and distributions, estimate transit times, and study the influence of the Beaufort Gyre on circulation in the Canada Basin.

### Eddy Carmack



Institute of Ocean Sciences, British Columbia, Canada

Eddy Carmack is a Senior Research Scientist and climate oceanographer at IOS. As a long-time observer of water he has participated in over 80 field investigations in rivers lakes and seas spanning from the Antarctic to the Arctic; from the Yukon to Siberia. He currently leads the 'Canada's Three Oceans' project for the International Polar Year program.

### Bill Williams



Institute of Ocean Sciences, British Columbia, Canada

Bill Williams is a research scientist and physical oceanographer at IOS who has led multidisciplinary programs in the Beaufort Sea. He will be the principal investigator of the Canada Basin JOIS program and chief scientist aboard the LSL in 2010 and the future. Among his interests are the study of shelf-break processes.

### Sarah Zimmermann



Institute of Ocean Sciences, British Columbia, Canada

Sarah Zimmermann, a physical oceanographer at IOS, was chief scientist from 2004 -2009 and ensured completion of the various complex multidisciplinary programs being conducted on the LSL. She also processes CTD and sensor data and assists Fiona with data analysis and preparation of results.

### Mike Dempsey



Institute of Ocean Sciences, British Columbia, Canada

Mike Dempsey is the senior Arctic oceanographic technician at IOS. He maintains the IOS CTD and rosette and shipboard underway system. Mike is also involved in all on-ice activities, deploys moorings for IARC and UW and works with the WHOI team in their mooring recovery and deployments.

### Jane Eert



Institute of Ocean Sciences, British Columbia, Canada

Jane Eert, a physical oceanographer at IOS with extensive Arctic experience, is the JOIS/C3O coordinator and manages logistics with the Canadian Coast Guard. She is also responsible for all the underway data collection and processing.

### Motoya Itoh



Japan Marine Science and Technology Center, Yokosuka, Japan

We gratefully acknowledge cooperation with Motoya Itoh and others from the [Japan Marine Science and Technology Center in Yokosuka, Japan](#).

### Koji Shimada



Tokyo University of Marine Science and Technology, Tokyo, Japan

We gratefully acknowledge cooperation with Koji Shimada and others from the [Tokyo University of Marine Science and Technology](#).

### Michiyo Yamamoto-Kawai



Tokyo University of Marine Science and Technology, Tokyo, Japan

Michiyo Yamamoto-Kawai is a research scientist and geochemical oceanographer with extensive experience working in the Arctic and led the geochemistry program on the LSL in 2010. Michiyo uses tracers to investigate the composition and distribution of freshwater and acidification-related changes in upper layers of the Canada Basin.

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