



International Ross Sea Region Collaboration and Coordination Workshop

Sunday, July 21, 2019

Location: Songdo Convensia (ISAES Venue: 123 Central Street, Yeonsu-gu, Incheon 21998)

Room: 306

The international science community has a critical part to play in providing understanding on how climate warming will affect ecosystems and the cryosphere in Antarctica and the Southern Ocean. The goal of the International Ross Sea Collaboration and Coordination Workshop is to bring together national Antarctic programmes operating in the Ross Sea, and leading researchers, to discuss existing research plans and emerging future priorities in the Ross Sea Region for the next decade. This understanding will provide a basis to explore opportunities for collaborative research and logistical efficiencies. Workshop attendance is by invitation only based on recommendations from national programme representatives. The workshop will focus on three priorities:

Session 1: Marine and Terrestrial Ecosystem Research

Current and projected environmental change has the potential to fundamentally alter Ross Sea ecosystems with far reaching consequences. There is a critical need for systems-level approaches to understanding ecosystem variability in the framework of broader environmental change. Research to understand and quantify environmental change in the Ross Sea will be time and resource intensive. This workshop session focuses on sharing existing and aspirational plans for research related to:

- The Ross Sea Marine Protected Area
- Terrestrial ecosystems
- Maintaining existing and initiating new monitoring stations

Session 2: Influence of Climate Change on the Cryosphere

Understanding future stability of the Ross Ice Shelf and its implication for accelerated ice mass loss from West and East Antarctic ice sheets is an international priority. Here we propose to focus on four future priorities:

- Terra Nova Bay and Ross Sea polynya
- Eastern Ross Sea
- Ross Ice Shelf, cavity and grounding line
- Paleoclimate / marine sediment drilling

Session 3: Logistics Activities in the Ross Sea

Increased international coordination could increase logistical efficiencies, reduce duplication, and connect relevant researchers. This workshop session aims to raise awareness of planned and future logistical activities in the Ross Sea region that could be leveraged to enhance research opportunities such as:

- Repeat measurements/surveys
- Deployment/maintenance of equipment (moorings, floats, gliders etc)
- Sample collection (biological, water, gas samples)

Update to the wider science community

During the ISAES Conference, two targeted short workshops will be held to inform the broader research community of outcomes from the Ross Sea Collaboration and Coordination Workshop and to encourage broader discussions on potential areas of collaboration and leveraging of logistical resources.

International Ross Sea Region Collaboration and Coordination Workshop Agenda

Sunday, July 21, 2019

Location: Songdo Convensia (ISAES Venue: 123 Central Street, Yeonsu-gu, Incheon 21998)

Room: 306

0830 – 0900	Introductions and Workshop Goals
0900 – 1020	Session 1: Marine and Terrestrial Ecosystem Research <i>Fifteen-minute presentations from attending national programs</i>
1020 – 1040	Break
1040 – 1140	Session 1: Marine and Terrestrial Ecosystem Research (continued) <i>Fifteen-minute presentations from attending national programs</i>
1140 – 1200	Session 1: Summary Discussion
1200 – 1300	Lunch
1300 – 1420	Session 2: Influence of Climate Change on the Cryosphere <i>Fifteen-minute presentations from attending national programs</i>
1420 – 1440	Break
1440 – 1540	Session 2: Influence of Climate Change on the Cryosphere (continued) <i>Fifteen-minute presentations from attending national programs</i>
1540 – 1600	Session 2: Summary Discussion
1600 – 1700	Session 3: Logistics Activities in the Ross Sea <i>Brief summaries from attending national programs</i>
1700 – 1730	Summary Discussion of possible collaboration and coordination