Program for interactive EGU2020 session OS1.13

**Under cover: ice-ocean interactions from the boundary layer to the Southern Ocean**

**Date/Time:** Thu, 07 May 2020, 16:15 to 18:00 CET (followed by an online open bar)

**Place:** [https://meetingorganizer.copernicus.org/EGU2020/displays/36180](https://meetingorganizer.copernicus.org/EGU2020/displays/36180)

Registration for online **coffee break** and **open bar**: [https://forms.gle/mzgyByeJoYP3oYdRA](https://forms.gle/mzgyByeJoYP3oYdRA)

Please look at the displays prior to the interactive text chat, since there will be no live presentations but an opportunity to ask questions to the presenters.

**Schedule overview**

14:00-15:45  **Session OS1.12**

15:45-16:15  Joined online **coffee/tea break** (registration required)

16:15-18:00  **Session OS1.13:**
16:15-16:50  **Characteristics of Polar Seas and connection with ice shelves and the open ocean**
16:50-17:20  **Sea ice and its interaction with ice shelves and the Southern Ocean**
17:20-18:00  **Turbulent Ice Shelf-Ocean Boundary Layers**

18:00- Joined online **open bar** (registration required)
Detailed program of interactive chat (text only)

**OS1.12/13 joined online coffee/tea break (15:45-16:15)**
Bring your own drink and display your favorite coffee place in the background. We will break-out into smaller groups.

**OS1.13 Session OS1.13 (16:15-18:00)**

*Characteristics of Polar Seas and connection with ice shelves and the open ocean (16:15-16:50; Chairs: Leo, Louis)*

Raquel Flynn ([D2761 | EGU2020-21107](https://www.egu.eu/)):  
*Productivity and carbon export potential in the Weddell Sea, with a focus on the waters near Larsen C Ice Shelf*

Katherine Hutchinson ([D2768 | EGU2020-112](https://www.egu.eu/)):  
*Water Mass Characteristics and Distribution Adjacent to Larsen C Ice Shelf, Antarctica*

Roberto Grilli ([D2772 | EGU2020-2984](https://www.egu.eu/)):  
*Subsea Water Isotope Sensors: A novel tool for continuous and in-situ analysis*

Chengyan Liu ([D2770 | EGU2020-2319](https://www.egu.eu/)):  
*On the modified Circumpolar Deep Water upwelling over the Four Ladies Bank in Prydz Bay, East Antarctica*

Ria Oelerich ([D2763 | EGU2020-463](https://www.egu.eu/)):  
*Cross-Slope Observations in the Bellingshausen Sea, Southern Ocean*

Ute Hausmann ([D2767 | EGU2020-22464](https://www.egu.eu/)):  
*The role of tides in ocean–ice-shelf interactions in the southwestern Weddell Sea*

*Sea ice and its interaction with ice shelves and the Southern Ocean (16:50-17:20; Chairs: Nadine, Xylar)*

Lucile Ricard ([D2765 | EGU2020-17820](https://www.egu.eu/)):  
*Impact of the Mertz Glacier Tongue calving on the emergence of polynyas in the d'Urville Trough, East Antarctica*

Pierre-Vincent Huot ([D2780 | EGU2020-19677](https://www.egu.eu/)):  
*Investigating the dynamics of an Antarctic coastal polynya using a regional climate model*

Isabelle Giddy ([D2777 | EGU2020-9934](https://www.egu.eu/)):  
*The Seasonality of submesoscale variability in the Antarctic Seasonal Ice Zone*
F. Alexander Haumann (D2782 | EGU2020-22008):  
Sea-ice Induced Southern Ocean Subsurface Warming and Surface Cooling in a Warming Climate

Sönke Maus (D2762 | EGU2020-6039):  
Microstructure and solutal boundary layer at the sea ice - ocean interface

**Turbulent Ice Shelf-Ocean Boundary Layers (17:20-18:00; Chairs: Irena, Xylar)**

Ryan Patmore (D2769 | EGU2020-10388):  
Assessing z-level modelling of the ice shelf - ocean boundary layer

Leo Middleton (D2781 | EGU2020-9112):  
Onset of Double-Diffusive Convection in the Ice Shelf/Ocean Boundary Layer

Louis-Alexandre Coustou (D2776 | EGU2020-19054):  
Ice melting in a turbulent stratified shear flow

Carolyn Branecky Begeman (D2774 | EGU2020-10848):  
Toward a new ice-shelf melt rate parameterization with large-eddy simulations

Peter Davis (D2771 | EGU2020-50):  
Turbulence Observations in the Grounding Zone Region of Thwaites Glacier

**OS1.12/13 joined online open bar (18:00-)**

Bring your own drink and display your favorite bar in the background. We will break-out into smaller groups.