

**1st Swiss Ocean Day -
The conference for the
Swiss ocean community**

20 June 2024, University of Bern

Venue:

Room 099, Exakte Wissenschaften ExWi,

Sidlerstrasse 5, 3012 Bern

FINAL PROGRAM

- 08:30 Registration open
- 09:30 Opening & welcome
- 09:45 Keynote talk: Prof. Laurent Bopp
- 10:25 Coffee break
- 11:00 Open Forum Part I
- 12:00 Lunch & Poster Session
- 13:30 Open Forum Part II
- 14:30 Ocean Quiz & Short Break
- 15:00 Open Forum Part III
- 16:00 Survey
- 16:10 Closing Remarks
- 16:15 Apéro & Poster Session
- 17:30 End

OPEN FORUM PART I (Chair: Dieter Baumgartner)

PHYSICAL OCEANOGRAPHY AND CLIMATE

11:00	Casacuberta	Nuria	ETH Zürich	TITANICA: Transient Tracers in the Arctic and Atlantic Oceans
11:05	Gruber	Nicolas	ETH Zürich	Ocean Sciences at the Environmental Physics Group
11:10	Ioannou	Artemis	Laboratoire Meteorologie Dynamique	Global assessment of mesoscale eddies from satellite observations and colocation with in-situ measurements
11:15	Wills	Robert	ETH Zürich	Atmosphere–ocean dynamics of SST variability and trends
11:20	Frölicher	Thomas	University of Bern	Ocean modeling at University of Bern

BIOGEOCHEMICAL OCEANOGRAPHY

11:25	Chappellaz	Jérôme	EPFL	Ocean in-situ greenhouse gas sensing using laser spectrometry
11:30	Eglinton	Timothy Ian	ETH Zürich	Ocean Carbon Cycle research within the ETH Biogeoscience Group
11:35	Jaccard Bacconais	Samuel Isabelle	University of Lausanne	BOAT - biogeochemistry across time
11:40	Foubert	Anneleen	University of Fribourg	Carbonates in extreme settings on a changing planet
11:45	Rüggeberg	Andres	University of Fribourg	Cold-water coral reefs and carbonate mounds
11:50	Bröder	Lisa	ETH Zürich	The arctic coastal environment - one of the most rapidly changing ecosystems on Earth
11:55	Terhaar	Jens	University of Bern	The future of the Arctic Ocean ecosystem

OPEN FORUM PART II (Chair: Nuria Casacuberta)

BIOLOGICAL OCEANOGRAPHY

13:30	Vogt	Meike	ETH Zürich	Who is where and why; From marine plankton ecosystem structure to global biogeochemical cycles
13:35	Clerc	Corentin	ETH Zürich	Evaluating zooplankton in Earth System Models with habitat models
13:40	Thomas	Mridul	University of Geneva	Understanding how the environment shapes phytoplankton performance
13:45	Wernicke von Siebenthal	Elena	Berner Fachhochschule	Aquaculture: the blue revolution
13:50	Jaiteh	Vanessa	University of Bern	Unboxing the carton fish: Why should the EU care about fish worker relations in Ghana

OCEAN CONSERVATION

13:55	Spadone	Aurélie	IUCN	Ocean biodiversity conservation: a role for Switzerland;
14:00	Zollinger Fischer	Annina	KYMA sea conservation & research	KYMA sea conservation & research: Campaign & research overview
14:05	Pfyffer	Julien	Octopus Foundation	The Octopus Foundation, to help marine scientists better understand
14:10	Jimenez	Isabel	WWF-Switzerland	WWF Oceans in Switzerland: charting a course toward a nature-positive future for our ocean
14:15	Bellot	Charlotte	Swiss Cetacean Society	Our contribution in marine biodiversity conservation from Switzerland
14:20	Rohrer	Yannick Pascal	Fair-fish	Vision and Projects of fair-fish
14:25	Malthaner	Leony	Sharkproject International	Sharkproject

OPEN FORUM PART III (Chair: Samuel Jaccard)

OCEAN CONSERVATION

15:00 Kuhfuss Hanna rreefs We rebuild coral reefs

SAILING AND OTHER TOPICS OF BROAD INTEREST

15:05 Schuback Nina Swiss Polar Institute Opportunities for Ocean scientists through the Swiss Polar Institute

15:10 Fornale Elisa University of Bern Law of the sea

15:15 Dixon Ben Geneva Ocean Academy Geneva Ocean Academy

15:20 Kerry James OceanCare Marine geoengineering and its impacts

15:25 Seda Diane OverSea Research Tides of Collaboration: The Intersection of Sailing and Swiss Ocean Research

15:30 Lehner Roman Sail & Explore Association The Sail & Explore Association – From Micro/Nanoplastic ocean fieldwork to human health studies

15:35 Meira Thaissa University of Basel Fairness Access to Marine Resources to Science and Exploration

15:40 Cherrak Marion Pacifique Pacifique – Sailing for science education and sustainability

15:45 Merkelbach Juliette Sailowtech Sailowtech

15:50 Cousot Antoine OCEANO VOX Oceano Cox: The first solution for sharing weather data from ships to improve safety at sea and empower real time forecast

15:55 Sout-Grit Carole Océans connectés Océans Connectés; the new online media of marine sciences

POSTER PRESENTATIONS

Nr. PHYSICAL OCEANOGRAPHY AND CLIMATE

1	Perez Tribouillier	Habacuc	ETH Zürich	Mixing of Atlantic Waters in the St. Anna Trough
2	Scheiwiller	Marcel	ETH Zürich	Circulation timescales and mixing in the Fram Strait (2016 – 2021): perspectives from transient radionuclide tracers
3	Dale	Duncan	ETH Zürich	Using ¹²⁹ I and ²³⁶ U to trace ocean circulation in the Sub-polar North Atlantic
4	Wu	Shuzhuang	University of Lausanne	Past changes in Antarctic Circumpolar Current over the past million years
5	Ferri	Emma	ETH Zürich	Tracking of extremes in ocean eddy-resolving climate models
6	Leist	Lisa	ETH Zürich	Artificial radionuclides in the Subpolar North Atlantic
7	Pothapakula	Praveen	ETH Zürich	Monsoon Systems in Kilometer Scale Global Coupled Simulations
8	Mateus	Ines	University of Milan	Beaufort Gyre Dynamics
9	Mettra	François	University of Bern	Deep sub-lacustrine Rhône delta (Lake Geneva) affected by localized, short Alpine storms
10	Müller	Jens	ETH Zürich	The Ocean Carbon Sink in a Changing Climate

Nr. BIOGEOCHEMICAL OCEANOGRAPHY

11	Blaser	Patrick	University of Lausanne	Past Ocean Oxygen Quantification
12	Raimondi	Lorenza	ETH Zürich	Anthropogenic Carbon in the Arctic Ocean and Subpolar North Atlantic
13	Burger	Friedrich	Universität Bern	Drivers of surface ocean-acidity extreme events
14	Flöter	Sebastian	University of Geneva	In search of geochemical signals of reef bleaching - A case study from Lizard Island, Australia
15	Gilliard	Delphine	University of Lausanne	Chromium isotopes in Rainbow hydrothermal vent

16	Paradis	Sarah	ETH Zürich	The Modern Ocean Sediment Archive and Inventory of Carbon (MOSAIC) database
17	Härri	Jana	ETH Zürich	The impact of ENSO on the nitrous oxide dynamics in the Eastern Tropical Pacific
18	Baconnais	Isabelle	University of Lausanne	Suspended Particulate Matter in the North East Subarctic Pacific Ocean
19	White	Margot	ETH Zürich	Stable isotopes of dissolved nitrate trace the California Undercurrent in the intermediate waters of the southern California Current System
20	Wong	Joel	ETH Zürich	Column-compound Marine Heatwaves and Ocean Acidity Extremes in the Southern Ocean
21	Köhn	Eike	ETH Zürich	The future of marine heatwaves and biogeochemical extremes in the California Current System
22	Penezic	Abra	Institute Rudjer Boskovic	How do atmospheric events and time of day of sampling reflect on trace metal concentrations in surface waters
23	Schnepper	Charlotte	ETH Zürich	Temporal variations of sinking particulate organic radiocarbon in the deep Sargasso Sea
24	Flanjak	Lana	University of Bern	Dissolved organic carbon dynamics in a changing ocean: A COBALTV2 Earth System Model analysis
25	Bruggmann	Sylvie	University of Lausanne	Chromium isotope compositions of sediments from the global oceans
26	Bollen	Michael	University of Lausanne	Glacial dynamics of the Weddell Embayment controlled by oceanographic variability since the LGM
27	Blattmann	Thomas	ETH Zürich	Insights into the preservation of biospheric carbon in marine sediment through amino acid-specific radiocarbon

Nr. BIOLOGICAL OCEANOGRAPHY

28	Baumgartner	Dieter	ETH Zürich	B12 in the phycosphere
29	Forget	Mathieu	ETH Zürich	Ecological contribution of bacterial attachment to phytoplankton
30	Romanelli	Elisa	ETH Zürich	Effect of flow on the marine particle microbiome
31	Zweifel	Sophie	ETH Zürich	The Curious Case of <i>Emiliana Huxleyi</i>

32	Keegstra	Johannes	ETH Zürich	Bacterial motility and the colonization of marine particles
33	Mayer	Stefanie	ETH Zürich	Unravelling Patterns and Drivers of Marine Diversity from Coastal to Open Oceans
34	Rozanski	Romane	ETH Zürich	Seasonal dynamics of mediterranean fish communities revealed by eDNA: contrasting compositions across depths and marine reserve boundaries
35	Thomas	Mridul	University of Geneva	Phytoplankton performance in the lab predicts field occurrence patterns
36	Freymond	Noémie	Swiss Cetacean Society (SCS)	Serving Marine Biology Research and Marine Conservation since 1997
37	Béziat	Pauline	ETH Zürich	Selenium in marine phytoplankton - a micronutrient in environmental perspective
38	Legrix	Natacha	University of Bern	Extreme and compound oceanic events are key drivers of low pelagic fish biomass
39	Burgay	Francois	University of Bern	Exploring the ocean through the cryosphere: what snow can tell us about phytoplankton blooms

Nr. OCEAN CONSERVATION, SAILING AND OTHER TOPICS OF BROAD INTEREST

40	Cousot	Antoine	OCEANO VOX	Oceano Vox: The first solution for sharing weather data from ships to ships to improve safety at sea and empower real time forecasting
41	Baumberger Overtoom	Leonie	Zurich University of the Arts	Compound Events
42	Wernicke von Siebenthal	Elena	HAFL-Berner Fachhochschule	Aquaculture: the blue revolution
43	Schuback	Nina	The Tara Polar Station Consortium	Tara Polar Station: A triple challenge expedition - Scientific, Technical and Human - to study the Central Arctic Ocean over the next decades through a series of transpolar drifts.

LIST OF PARTICIPANTS

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