

*The oceanography program of the Hebrew University of Jerusalem
& the Israel Association for Aquatic Sciences are holding a*

Workshop in Oceanography

The Oceans:

Impacts of climate and environmental change

9:00-15:00

17th of May, 2023

Institute of Earth Sciences, Giva'at Ram, Jerusalem

No pre-registration required, Participation is free

Themes

- Ocean-atmosphere interaction
 - Biogeochemistry
 - The carbon cycle
 - Environment
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Speakers

Yonaton Goldsmith, HUJI

Chana Kranzler, Bar-Ilan University

Assaf Hochman, HUJI

Yishai Weinstein, Bar-Ilan University

Yeala Shaked, HUJI/IUI

Edo Bar-Ze'ev, Ben-Gurion University

Sonya Dyhrman, Columbia University

Igal Berenshtein, Haifa University

Rei Chemke, Weizmann Institute

Naama Lang-Yona, Technion

Josh Steinberg, Carbon Blue

Sigal Abramovitch, Ben-Gurion University

Adi Torfstein, HUJI/IUI

For further questions please contact adi.torf@mail.huji.ac.il

Oceanography Workshop, May 17th, 2023

The Oceans: Impacts of climate and environmental change

8:30 - Gathering, coffee

9:00-9:20 - Opening: - Adi Torfstein, Hebrew University Oceanography Program
- Yael Mishaël, Hebrew University Center for Sustainability
- Yeala Shaked, Israeli Association for Aquatic Sciences

9:20-10:20 - Atmosphere and Oceans *Chair: Gilli Edvardson*

9:20-9:40 - **The simple and complex ways orbital forcing drives Asian hydroclimate throughout the Holocene** - *Yonatan Goldsmith, HUJI*

9:40-10:00 - **The central role of ocean processes in future mid-latitude storm tracks changes** - *Rei Chemke, Weizmann Institute*

10:00-10:20 - **Extreme precipitation in present and future scenarios; The case of the 'Wet' Red Sea Trough** - *Assaf Hochman, HUJI*

10:20-10:40 - **The Invisible Threat: Abundance and Pathogenicity of Marine Bacteria in the Atmosphere** - *Naama Lang-Yona, Technion*

10:40-11:00 - Coffee break

11:00-12:40 - Biogeochemistry *Chair: Tal Benalabet*

11:00-11:20 - **Community Resilience: Tracing Microbial Dynamics in a Changing Ocean** - *Sonya Dyhrman, Columbia University*

11:20-11:40 - **Iron availability to marine phytoplankton – from the molecular to the global** - *Yeala Shaked, HUJI/TUI*

11:40-12:00 - **Biogeochemical consequences of host-virus interactions in marine diatoms** - *Chana Kranzler, Bar-Ilan University*

12:00-12:20 - **The coastal-open sea conveyor of the Levantine Basin** - *Yishai Weinstein, Bar-Ilan University*

12:20-12:40 - **The metrics and behavior of the biological pump in a warming world** - *Adi Torfstein, HUJI/TUI*

12:40-13:20 - Lunch break

13:20-14:30 - Environment *Chair: Chen Davidson*

13:20-13:40 - **Benthic foraminifera as bioindicators of coastal marine environments** - *Sigal Abramovitch Ben-Gurion, University*

13:40-14:00 - **Utilizing the ocean carbon cycle to mitigate climate change** - *Josh Steinberg, Carbon Blue*

14:00-14:20 - **The effects of oil pollution and terrestrial droughts on marine ecosystems-lessons from the Gulf of Mexico** - *Igal Berenshtein, Haifa University*

14:20-14:40 - **The impact of seawater desalination on the marine environment** - *Edo Bar-Ze'ev, Ben-Gurion University*

14:40-14:50 Final comments

Oceanography Workshop, 9:00-15:00, May 17th, 2023

The Oceans: Impacts of climate and environmental change

The workshop will take place at the Fredy & Nadine Herrmann Institute of Earth Sciences at Giva'at Ram campus of the Hebrew University of Jerusalem

Participation is free and no pre-registration required

Arrival instructions:

Location in google maps: <https://goo.gl/maps/5gWKFvHqFSPWWkUA6>

Car: Parking space in the campus is limited. Participants without entry permits can park on Yesha'yahu Leibowitz street (circled in red in map), near the Geological Survey of Israel.

Public transport: for those arriving to Jerusalem by train or bus, it is recommended to take bus #66, #66a or #68, from the central station (Jaffa street). Transport time is about 7-10 minutes and there is a stop directly outside the Institute of Earth Sciences (red arrow in map).

