

Making Waves with NOW

- This month's new releases: Kirt Robinson, [Ethene-ethanol ratios as potential indicators of hydrothermal activity at Enceladus, Europa, and other icy ocean worlds.](#)
- Call for future [NOW Waves](#), please submit slide (pptx, jpg, pdf) to: kpietro@whoi.edu

Meetings, Workshops and Activities

2023

- November 20 [Origins Seminar Series](#)
- November 21 [Nfold Think Tank](#)
- November 28-29 [Outer Planets Assessment Group](#)
- December 11-15 AGU (registration deadlines [11/15](#), [11/30](#), [12/6](#))
 - (Please include Ocean Worlds sessions, [HERE](#))

2024

- February 5,7,9 & 12,14, 16 [Communicating Discoveries in the Search for Life in the Universe](#)
 - (applications due [11/15/23](#))
- February 18-23, 2024 [Ocean Science Meeting \(Program now Available On-Line\)](#)
- February (TBC) NASA/NSF workshop on Astrobiology & Ocean Drilling
- April 14-19 [EGU General Assembly](#)
- May 5-10 [AbSciCon 2024](#), Abstracts due [1/10/2024](#)
 - (see list of Ocean Worlds theme sessions below)

Recent Publications Relevant to Ocean Worlds

- [Duval, K. et al. 2023](#). Biosignature preparation for ocean worlds (BioPOW) instrument prototype. *Front Astron, Space Sci., Sec Astrobiology*, Volume 10.
- [Kaspi, Y. et al. 2023](#). Observational evidence for cylindrically oriented zonal flows on Jupiter, *Nature Astronomy*.
- [Syverson, D. et al. 2023](#). Seafloor spreading and the delivery of sulfur and metals to Earth's oceans. *Geology*.
- [Teske, A. et al. 2024](#). The Guaymas Basin – A hot spot for hydrothermal generation and anaerobic microbial degradation of hydrocarbons. *International Biodeterioration & Biodegradation*, Volume 186.

Ocean Worlds Near and Far, AbSciCon 2024

- [Accessing Ocean Worlds: Challenges and Technologies for Sub-ice Sampling and Exploration](#)
- [Biosignature Detection and Preservation in Icy Surface Materials](#)
- [Building a Cross-Disciplinary Understanding of Ocean Worlds Habitability at the Dawn of the Europa Clipper Mission](#)
- [Chemical Cycling in Ocean Worlds](#)
- [From Subsurface to Surface and Plume: How Ejection Affects Erupted Material on Icy Ocean Worlds](#)
- [Geophysical Investigations of Habitability in Icy Ocean Worlds](#)
- [Organic Chemical Evolution of Ocean Worlds of the Outer Solar System](#)
- [Planetary Ocean Access: A Near-term Path to Extant Life Detection](#)
- [Pushing the Limits of *in situ* Instrumentation: Developing Tools for Planetary Exploration and Life-detection Applications on Icy Ocean Worlds](#)
- [Terrestrial analogs, research facilities, and state-of-the-art techniques for investigating life under conditions on Ocean Worlds](#)
- [The Whole Package: In Situ Sample Preparation and Instrumentation to Seek Life, its Precursors, and Context on Ocean Worlds](#)
- [Titan Prebiotic Chemistry: Surface and Subsurface](#)
- [Titan Science in Anticipation for the Dragonfly Mission](#)

New Job Postings

- [Tenure Track Scientist - AOPE - Sensing, Robotics, and Machine Learning](#), WHOI, 12/31/2023.
- [Tenure Track Positions: Solar System Planetary Science](#), CalTech, open until filled
- *Previously advertised posts archived [HERE](#)*

Proposal Calls

- [Submit an IODP Workshop Proposal](#) (IODP/USSSP), 12/4/2023
- [ESPSCoR Collaborations for Optimizing Research Ecosystems Research Infrastructure Improvement Program](#) (E-CORE RII), 12/6/2023
- [Scripps: Postdoctoral Scholar Award](#), 12/15/2023
- [Surface Water and Ocean Topography \(SWOT\) Science Team \(NASA\)](#), 12/15/2023
- [Schlanger Ocean Drilling Fellowship Program](#), 12/22/2023
- [COBRA Early Career Accelerator Stipends](#), 12/27/2023
- [RV Langseth Operations Calendar Years 2025-2026](#), 12/31/2023
- [Schmidt Ocean Institute: Call for Expressions of Interest for 2025](#), 12/31/2023

News, Education, and Outreach

- [NASA's Juno Finds Jupiter's Winds Penetrate in Cylindrical Layers](#)
- [Europa Clipper: Message in a Bottle](#)
- Subscribe to the [NASA Astrobiology SciComm Guild](#)
- Subscribe to the [NASA Astrobiology Mailing List](#)