

THE JOURNAL OF OCEAN TECHNOLOGY

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Climate Change and the Ocean

V17N3 fall 2022

The fall 2022 issue of the JOT will focus on climate change and the ocean with guest editor Dr. Keith Alverson. Climate change is impacting the oceans in myriad ways and communities around the world are actively responding to these changes. At the coasts, sea level rise adaptation technologies are being deployed including movable gates such as in Venice and the Thames, seawalls, and ecosystem-based actions such as dune management and mangrove plantations. Rising sea level is, of course, not the only way coastal environments are being impacted. In the Arctic, for example, removal of coastal fast ice is leading to more storminess and erosion and coastal permafrost is melting. Warming waters are impacting fisheries globally. People are adapting to climatic changes locally, with different strategies and technologies, in order to protect coastal zone activities, aquaculture and shipping, including for coastal flood hazard mitigation, changing sea and river ice conditions, changing ocean acidity, oxygen and nutrient changes. This special issue of the JOT seeks contributions on the impacts of climate change on the oceans and coasts and the results and effectiveness of various actions and technologies that are being taken to respond to these changes. In that light, we are inviting the submission of technical papers, essays, and short articles for this issue.

Technical papers describe cutting edge research and present the results of new (i.e., not previously published) research in ocean technology, and be no more than 7,500 words in length. **Student papers are welcome.**

Essays present well-informed observations and conclusions, and identify key issues for the oceans community in a concise manner. They are written at a level that would be understandable by a non-specialist. As essays are less formal than a technical paper, they do not include abstracts or a listing of references. Typical essay lengths are up to 3,000 words.

Short articles are between 450 and 900 words and focus on how a technology works, evolution or advancement of a technology plus viewpoint/commentary pieces.

Important deadlines

Technical paper submissions: May 20, 2022. **This should be the full paper.**

Expressions of interest for essays and short articles: May 20, 2022

- After May 20, the JOT team will meet to review all submitted expressions of interest (EOI) and prepare a content outline. Should your EOI be accepted, the deadline for submission of materials is July 22.

Format

Expressions of interest for essays and short articles should contain the following information:

- Proposed title of article
- Type of article (essay – up to 3,000 words; or short article – up to 900 words)
- Name(s) and affiliation(s) of author(s)
- Short summary of article (no more than 200 words)

Submit both technical papers and expressions of interest to: dawn.roche@mi.mun.ca