

## Abstract : IHO Stakeholders' Open Session HSSC-13, May 2021

### Putting USV technologies to the test for Arctic operations

Autonomous technologies are now a fact. As the market is developing quickly the need to implement standards should not be overlooked. This presentation depicts the use of a next generation Uncrewed Surface Vessel for the collection of bathymetric data in inland Canadian waters, via a partnership between IIC Technologies (IIC) and XOCEAN performing services for the Canadian Hydrographic Service (CHS). It will discuss how the operation was successful despite COVID 19, touching on technologies, processes and lessons learned. As this project was performed during a timeframe and location to specifically mimic Arctic conditions, the session will discuss recommendations on how autonomous technology can greatly improve the efficiency and effectiveness of hydrographic operations in Arctic waters.