

<i>Session Title</i>	Big Ocean Data Promotes Sustainable Development
<i>Session Description</i>	<p>The ocean, covering over 70% of Earth's surface, is a critical component of the global ecosystem. However, it faces unprecedented challenges from extreme dynamic processes, pollution, overfishing, and climate change. Leveraging big ocean data—integrated from satellite observations, autonomous vehicles, and sensor networks—offers transformative potential to monitor, model, and manage marine environments. Advanced ocean models and forecasting systems enable precise predictions of marine heatwaves, acidification, and pollutant dispersion, informing policy and conservation efforts. This session explores how big ocean data can drive sustainable development by enhancing our understanding of marine ecosystems, improving disaster resilience, and supporting the restoration of vital habitats.</p>