

The 6th International Forum on Big Data for Sustainable Development Goals (FBAS 2026)

Session Proposal Template

<i>Session Title</i>	Advancing Sustainable Ocean Development through Big Ocean Data and Artificial Intelligence	
<i>Session Chair(s)</i>	<i>Name</i>	Fan Wang & Xiaofeng Li
	<i>Affiliation</i>	Institute of Oceanology, Chinese Academy of Sciences
	<i>Profile (200-word limit)</i>	<p>Fan Wang, Ph.D., Director of Institute of Oceanology, Chinese Academy of Sciences (IOCAS), and Dean of College of Marine Science, University of Chinese Academy of Sciences. He is mainly working on ocean circulation dynamics, including the low-latitude western boundary currents and tropical circulation in the Pacific Ocean, the western Pacific warm pool, and climate change impacts etc. He undertook more than 30 projects funded by National Basic Research Program, National Natural Science Foundation of China, and Chinese Academy of Sciences etc. He has published over 200 papers and 4 Academic Monographs. Dr. Wang serves as the chairman of the International Northwest Pacific Ocean Circulation and Climate Experiment (NPOCE) science steering committee, president of the Chinese Society for Oceanology and Limnology; the editor in chief of "Oceanology and Limnology".</p> <p>LI Xiaofeng, Ph.D. He is an IEEE Fellow, Fellow of the Asia-Pacific Artificial Intelligence Association, and Fellow of the Electromagnetics Academy. He worked at the U.S. National Oceanic and Atmospheric Administration (NOAA) for over 20 years, primarily engaged in research in satellite oceanography, big data, and artificial intelligence. He currently serves as the Chief Scientist for Artificial Intelligence Oceanography and the Chief Engineer of the</p>

		Big Data Center at the IOCAS. Additionally, he holds editorial positions as an Associate Editor for IEEE TGRS, Editor for JGR: Machine Learning and Computation, and Executive Editor for the Science Partner Journal: Journal of Remote Sensing. He has edited and published three monographs and authored over 200 SCI-indexed papers.
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Preferred Topics	<p>The session will focus, but not be limited to, the following essential topics:</p> <ul style="list-style-type: none"> • Big ocean data and digital ocean systems • Ocean forecasting, early warning, and climate resilience • Marine hazard reduction and disaster risk management • Marine and coastal pollution monitoring and mitigation • Protection and restoration of marine ecosystems • Data-driven ocean governance for sustainable development 	
Session Description <i>(200-word limit)</i>	<p>The ocean, covering more than 70% of the Earth’s surface, plays a central role in climate regulation, biodiversity conservation, food security, and human well-being. However, it is increasingly threatened by climate change, extreme ocean events, pollution, ecosystem degradation, and growing human pressures. In this context, big ocean data, integrated from satellite remote sensing, autonomous platforms, in situ observations, sensor networks, and numerical models, offers new opportunities to better observe, understand, and manage marine environments.</p> <p>This session will explore how big ocean data can support sustainable development by improving ocean forecasting, strengthening early warning systems, reducing marine hazards and disaster losses, monitoring and mitigating marine and coastal pollution, and informing the protection and restoration of marine ecosystems. It will also highlight the growing role of ocean foundation models and data-driven approaches in advancing ocean knowledge and supporting science-based governance. By bringing together researchers, and decision-makers, this session aims to promote interdisciplinary exchange and showcase how integrated ocean data and forecasting systems can contribute to a more sustainable, resilient, and</p>	

	well-governed ocean, thereby contributing to SDG and other ocean-related sustainable development goals.
<i>Expected outcomes</i> <i>(50-word limit)</i>	This session will foster exchange on data-driven ocean forecasting, hazard reduction, pollution control, and ecosystem restoration, while promoting collaboration among science, policy, and practice. It aims to highlight how big ocean data can support resilient, informed, and sustainable ocean governance.

Please submit filled session proposal to fbas@cbas.ac.cn before **April 20, 2026**