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

Session Proposal Template

Session Title	*Improving monitoring for better integrated climate and biodiversity approaches, using environmental and Earth observation*	
Session Chair(s)	*Name*	*Linlu Mei, Robert Brian O'Hara, Xiaojing Yao*
	Affiliation	*International Research Center of Big Data for Sustainable Development Goals (CBAS);* *Department of Mathematical Sciences, NTNU;* *Aerospace Information Research Institute, Chinese Academy of Sciences*
	Profile (200-word limit)	*Prof. Dr. Linlu Mei is a Professor at International Research Center of Big Data for Sustainable Development Goals (CBAS). His research interests include remote sensing of climate and environment related parameters.* *Prof. Dr. Robert Brian O'Hara is a Professor at NTNU, his main interest is the development of methods to model the distributions and dynamics of species an communities;* *Dr. Xiaojing Yao is an Associate Professor at the Aerospace Information Research Institute, Chinese Academy of Sciences. Her research integrates space-air-ground remote sensing with process-based modeling to tackle national challenges in ecological risk assessment/early warning and dual-carbon strategy-related carbon monitoring.*
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Preferred Topics	Big Data Technology Serving Global Sustainable Development	

Session Description ***(200-word limit)***	It focuses on strengthening ground-based monitoring, enhancing international cooperation, and developing integrate observational systems. Key objectives of this session include creating advanced monitoring systems that combine in-situ, remote sensing, and environmental datasets for comprehensive insights into terrestrial ecosystems. The session welcomes teams intending to develop data models and analytical pipelines for seamless data integration, improve monitoring through EBVs and ECVs, and identify synergies between biodiversity conservation and climate mitigation. This session is designed to support policy-making with scientific insights and recommendations for integrated climate and biodiversity strategies at national and international levels.
Expected outcomes ***(50-word limit)***	This session will advance the application of remote sensing for rapid biodiversity assessment and KM-GBF progress tracking. It will identify key indicators, enhance data-driven policy support, and foster interdisciplinary collaboration. Insights from case studies will contribute to refining monitoring frameworks, strengthening KM-GBF implementation, and aligning biodiversity conservation with SDG targets.

Please submit filled session proposal to fbas@cbas.ac.cn before **April 30, 2026**