Session Title	Remote Sensing for Conservation and Biodiversity
Session Description	The integration of remote sensing and big data analytics has transformed biodiversity conservation by enabling rapid assessment and real-time monitoring. This session, <i>Remote</i> <i>Sensing for Conservation and Biodiversity</i> , will explore cutting-edge Earth observation technologies, AI-driven biodiversity assessments, and geospatial modeling to support global conservation efforts. A key focus will be on how remote sensing facilitates rapid biodiversity assessments and provides comprehensive evaluations of the implementation progress of the Kunming-Montreal Global Biodiversity Framework (KM-GBF) in alignment with the Sustainable Development Goals (SDGs). Discussions will highlight advancements in habitat and species monitoring, ecosystem resilience assessment, and early warning systems for biodiversity loss, with an emphasis on scalable, high-frequency monitoring approaches. The session will also examine the integration of phenology monitoring, species distribution modeling, and ecological connectivity analysis to enhance multilevel biodiversity mapping. Case studies from diverse ecosystems will demonstrate how remote sensing-driven rapid assessments can inform policy decisions, track KM-GBF implementation, and provide timely insights into conservation effectiveness under climate change.