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Enhancing Geoscience Collaboration and Discovery: Leveraging the Science Explorer (SciX) for Efficient Literature Review and Interdisciplinary Research

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The Science Explorer (SciX) digital library is a cutting-edge solution designed to address the growing complexity of accessing, evaluating, and synthesizing the expanding body of literature in Earth and environmental sciences. While the Earth System itself remains as intricate as ever, the challenge today lies in navigating an increasingly vast and diverse array of research and data. SciX responds to this need by providing a centralized, open-access platform that enhances the discovery and integration of scientific literature, all while adhering to the FAIR principles—Findable, Accessible, Interoperable, and Reusable.

In this session, we will showcase how SciX empowers researchers to efficiently explore a vast repository of scholarly publications relevant to the Earth and environmental sciences. Leveraging Artificial Intelligence (AI) and Machine Learning (ML) technologies, SciX optimizes literature search and discovery, enabling users to easily locate, evaluate, and engage with the most pertinent scientific papers and resources. Features like personalized searches, citation exports, and tailored alerts allow researchers to stay at the forefront of their fields.

We will also highlight the powerful bibliometric tools within SciX, including parameterized search and advanced visualization capabilities. These bibliometric visualizations help researchers uncover connections between authors, citations, and emerging research trends, enabling the identification of potential collaborators across disciplines and fostering a broader, more integrated approach to scientific inquiry. By mapping key contributors and intellectual networks, SciX facilitates cross-disciplinary collaboration, enhancing the impact of research across the Earth System.

At the heart of SciX is a commitment to open science and continuous user engagement. The platform evolves based on user-driven feedback, ensuring that it meets the evolving needs of the scientific community. This presentation will demonstrate how SciX is shaping the future of literature review, collaboration, and interdisciplinary research in Earth and environmental sciences.

Attendees will leave with practical insights into how SciX can streamline their literature review process, promote collaboration across scientific disciplines, and help tackle the challenges of today's rapidly expanding research landscape.