

Environmetrics and the Sustainable Development Goals (SDGs): Advancing the Mission of The International Environmetrics Society (TIES) for a Changing Planet

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Abstract

As we face unprecedented global climate volatility and ecological transition, the mandate for quantitative environmental science has never been more urgent. In this presentation, we showcase the vital and expanding role of The International Environmetrics Society (TIES) (an association of the International Statistical Institute, ISI) in shaping global environmental stewardship.

Rather than viewing quantitative data in isolation, we highlight how the TIES community uniquely bridges the gap between complex mathematical theory, statistical innovation, and real-world policy impact. We will look ahead at the strategic future of our discipline, exploring how collaborative ecological networks, advanced spatial-temporal modeling, and data science are transforming complex environmental data into actionable solutions.

This showcase is a celebration of our collective achievements, a preview of emerging statistical frontiers, and a rallying call to action for our global membership to lend their quantitative expertise to the defining environmental challenges of our time.