Evaluating Ecosystem Services with Remote Sensing

Augus 23, 25, & 30, 2022

11:00-12:30 EDT (UTC-4)

This training will outline the basics of ecosystem services and natural capital accounting. It will also provide an overview of how Earth Observations (EO) can be used to support global frameworks and initiatives such as standards set by the United Nation's System of Environmental Economic Accounting (UN-SEEA). Participants will receive information on techniques and tools for using EO in natural capital accounting such as the use of land cover mapping, time series analysis, and modeling efforts conducted with the Natural Capital Project via the InVEST software, The Artificial Intelligence for Environment and Sustainability (ARIES) Project, and more. Case-study examples will be provided to highlight locally specific efforts such as valuation of native pollinators, urban ecosystem accounts, valuation of coastal resilience and coral reef habitats, and forest conservation and carbon sequestration.

Part 1: August 23, 2022

- Overview of Ecosystem Services
- Ecosystem Accounting
- Global Frameworks and Initiatives for Assessing Value in Ecosystems
- Earth Observations and data products for ecosystem assessments
- Q&A

Part 2: August 25, 2022

- Remote sensing techniques for ecosystem assessments
- Modeling tools for natural capital accounting The Natural Capital Project and Integrated Valuation of Ecosystem
- Services and Tradeoffs (InVEST)
- Artificial Intelligence for Environment and Sustainability (ARIES)
- Q&A

Part 3: August 30, 2022

- Case study examples of the use of EO in ecosystem services andnatural capital accounting
- Gaborone Declaration for Sustainability in Africa, Ecosystem Valuationand Natural Capital
- Earth Observation for Ecosystem Accounting (EO4EA) Initiative Projects
- Wealth Accounting and the Valuation of Ecosystem Services (WAVES)projects
- Valuing the Role of U.S. Coral Reefs in Coastal Hazard Risk Reduction
- Piloting urban ecosystem accounting for the United States
- Q&A

ARSET empowers the global community through remote sensing training.

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