EO4SDGs

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Session: Advancing the Sustainable Development Goals Agenda using EO in the Americas
Date: August 19, 2019
EO4SDG 6.6.1/6.3.2

1. Monitoring changes in the quality of surface waters (e.g., lakes, reservoirs, water supplies, estuaries)

2. EO is capable of providing spatially and temporally consistent measurements of materials that impact color of water like:
   a. Chlorophyll-a
   b. Total suspended sediment

3. EO-derived estimates relate to the health/condition of a waterbody
NASA’s Applied Sciences and SDG 6.6.1/6.3.2

- Outreach activities in coordination with UNEP
- Introduce water quality monitoring through EO
- Engage countries in validating EO products

Latin America (Bogota, Colombia) – April 2018

Africa/Asia (Bellagio, Italy) – Nov 2018

Colombia, Peru, Venezuela, Bolivia, Panama, Costa Rica, Ecuador
Zambia, Senegal, Uganda, Egypt, Mongolia, Colombia
Engaging with Countries: Peru

Evaluating Reservoir El Frayle

Chlorophyll-a

Lat =-16.13, Lon = -71.17

Sentinel-2A

Sentinel-2B

Landsat-8

31st March 2018

05th April 2018

15th April 2018
NASA’s Development of a Tool for Monitoring SDG 6.6.1/6.3.2

- STREAM: **Satellite-based analysis Tool for Rapid Evaluation of Aquatic environments**

  Allows Easy-access, Visualization, and Analyses of EO for **SDG Reporting**
How Countries Can Contribute?

- Coordinate your field monitoring activities with satellite overpasses
Key Challenges

- Identify countries’ **relevant agency/organizations** and **proactive** points of contact
- Demonstrate the utility of products
- Capacity building
- Convey the limitations of EO and product uncertainties
- How to define a baseline condition
Thank you!

Event Website: https://www.amerigeoss.org/amerigeoss-events/amerigeoss-week-2019
Event Documents: https://data.amerigeoss.org/group/amerigeowek2019