SWOT Early Adopter Hackathon 2020

Location: Online (Broadcast via Zoom)

https://washington.zoom.us/j/336602292

Website and Registration Information: https://swothackathon.github.io/

May 26-2020- June 1, 2020

AGENDA

SESSION 1 (May 26 Tuesday)

7.00AM-9.30AM (PST)

- Overview of Hackathon objectives (by **Faisal Hossain**) **(5 mins)**
- Introduce Organizers, EAs; Introduce hackathon helpers (by **Faisal Hossain**) **(10 mins)**
  Overview of the Hackathon agenda (by **Faisal Hossain**) **(5 mins)**
- Overview of SWOT Data Products (by **Tamlin Pavelsky, UNC, SWOT Hydrology Science Lead**) **(30 mins)**
- Hands-on demonstration exercise on generating inputs for SWOT simulator Usin Google Earth Engine-GEE – (by **Matt Bonnema**) **(2.0 Hours)**
  This Hands-on will involve GEE, use visible, NIR and SAR imagery over a real-world river-reservoir system. Each EA will get to observe the hands-on demonstration live to build the data handling skills needed to generate input data to derive SWOT-like reservoir area/height and river area/height data.

15 Min Break

9.45AM-11.00AM

- Complete the remaining aspects of the Hands-on demonstration *as needed* (by **Matt Bonnema, JPL**) **(30 mins)**
- Q and A for Early Adopters and Participants *as needed* (session will not be recorded) (by **Matt Bonnema, JPL**) **(45 mins)**

SESSION 2 (May 27 Wednesday)

7.00AM-11.30AM (PST)

- Introduction to SWOT CNES Hydrology Simulator, LOCNES and RiverObs (by **Damien Desroches, CNES**) **(1.0 Hour)**

This is a high level overview showing how to use the CNES Hydrology simulator on github.

- SWOT CNES Hydrology Simulator from the EA perspective – overview by NASA SPoRT Nicholas on the simulator, likely issues, best practices. Overview of the tutorial (by **Nicholas Elmer, NASA SPoRT**) **(1.0 Hour)**
- SWOT Ocean Simulator Tutorial (by **Lucile gaultier, Oceandata Lab**) **(1.0 Hour)**
- PO.DAAC SWOT Cloud Activity/Update – (by **Catalina Oaida/Jessica Hausman, JPL**) **(1.0 hour)**

- Introduction to Global Reservoir Assessment Tool (by **Nishan Kumar Biswas, UW**) (**30 minutes**)

SESSION 3 (May 28 Thursday)

8AM-10AM (PST) – Getting to know EA project progress and Key Hurdles **(2 hours)**

Parallel Zoom breakout session for EA-1 **(2 hours) for IIT-Delhi** (Helper: Hisham Eldardiry, UW)

Parallel Zoom breakout session for EA-2 **(2 hours) for ADPC** (Helper: Nishan K. Biswas, UW)

Parallel Zoom breakout session for EA-3 **(2 hours) for PCRWR** (Helper: Shahryar K. Ahmad, UW)

Parallel Zoom breakout session for EA-4 **(2 hours) for IIT-Bombay** (Helper: Nicholas Elmer, NASA SPoRT)

BREAK **(30 mins)**

10.30AM-12.30PM (PST) – Getting to know EA project progress and Key Hurdles **(2 hours)**

Parallel Zoom breakout session for EA-5 **(2 hours) for FMGLOBAL** (Helper: Claire Beveridge and Indira Bose)

Parallel Zoom breakout session for EA-6 **(1.5 hours) for UniBonn** (Helper: Nicholas Elmer, NASA SPoRT)

SESSION 4 (May 29 Friday)

8AM-12PM (PST) – Fixing hurdles for EA projects through 1-1 hands on session **(4 hours)**

Parallel Zoom breakout session for EA-1 **(4 hours) for IIT-Delhi** (Helper: Hisham Eldardiry, UW)

Parallel Zoom breakout session for EA-2 **(4 hours) for ADPC** (Helper: Nishan K. Biswas, UW)

Parallel Zoom breakout session for EA-3 **(4 hours) for PCRWR** (Helper: Shahryar Ahmad, UW)

Parallel Zoom breakout session for EA-4 **(4 hours) for IIT-Bombay** (Helper: Nicholas Elmer, NASA SPoRT)

BREAK **(30 mins)**

12.30PM-4.30PM (PST) – Fixing hurdles for EA projects through 1-1 hands on session **(4 hours)**

Parallel Zoom breakout session for EA-5 **(4 hours) for FMGLOBAL** (Helper: Claire Beveridge and Indira Bose)

Parallel Zoom breakout session for EA-6 **(4 hours) for UniBonn** (Helper: Lucile Gaultier, Oceandata)

SESSION 5 (June 1 Monday)

AM (8.00AM-10.00AM) PST

- Hearing from EAs on needs and 'what else?' for future planning **(1 hour)**
- Discussions, Q&A **(1 hour)**

ADJOURN June 1 Monday 10AM PST