SWOT Early Adopter Hackathon 2021

Location: Online (Broadcast via Zoom)

https://washington.zoom.us/j/92246967876 (passcode required from March 9 through 11)

Website and Registration Information: http://depts.washington.edu/saswe/swot/hackathon.html

March 8 – March 11, 2021

AGENDA

All times are in Pacific Time Zone

SESSION 1 (March 8 Monday) – *OPEN TO ALL (no passcode required for Zoom)*

7.00AM-8.10AM (PST)

- *Welcome & Introduction to SWOT Application Working Group-SAWG* (by **Faisal Hossain** and **SAWG Leads**) **(5 mins)**
- *Welcome note by SWOT Program leads* **(10 mins)**
  Nadya Vinogradova-Shiffer, NASA HQ Physical Oceanography (SWOT)
  Annick Sylvestre-Baron, CNES SWOT Program Lead
  Bradley Doorn, NASA HQ Applied Sciences Program (Water)
- *Take a Group Photo* **(5 mins)**
- *Overview of Hackathon objectives, Overview of the Hackathon agenda* (by **Faisal Hossain**) **(15 mins)**
- *Demonstration of HYDROWEB-NG* (by **Lionel Zawadzki, CNES**) **(20 mins)**
- *Reservoir Volume Monitoring in France using Sentinel satellites* (**Santiago Pena-Luque, CNES**) **(20 mins)**

5 Min Break (for Q&A)

8.20AM-11.00AM (PST)

- *Introduction to CNES SWOT Ocean Simulator* (by **Lucile Gaultier, Oceandata Lab**) (**20 mins**)
- *Introduction to NASA Earth Data Cloud* (by **Catalina Oaida, JPL**) **(30 mins)**
  This will provide a high-level overview of functionalities of the NASA Earth Data Cloud that will host SWOT mission data
- *Demonstration of PO.DAAC User Case Story for an Early Adopter project -1* (by **Catalina Oaida, JPL**) **(30 mins)**
- *Overview of SWOT Data Products* (**Mike Durand, The Ohio State Univeristy**) (**20 mins**)
- *Overview of SWOT Discharge Algorithm and Products* (**Mike Durand, The Ohio State University**) (**20 mins**)
- *Overview of Education and Outreach Services of CUAHSI (Consortium of Universities for the Advancement of Hydrologic Science)* (by **Jerad Bales, CUAHSI**) (**20 mins**)
- Q&A for Early Adopters about NASA Earth Data Cloud, Ocean Simulator, SWOT Data products, SWOT Discharge Algorithms (**20 mins**)

7.00AM-9.00AM (PST)

- Showcasing how Early Adopters have used SWOT Simulator and ancilliary data for applications

  1. *Demonstration & lessons learned on how IIT Bombay applied SWOT Simulator and data to explore the value of SWOT for hydrology applications in India* (by **Indu Jayaluxmi, IIT Bombay**) **(30 mins)**
  2. *Demonstration & lessons learned on how NASA SPoRT applied SWOT Simulator and data to explore the value of SWOT in data assimilation for river forecasting* (by **Nicholas Elmer, NASA SPoRT**) **(30 mins)**
  3. *Demonstration & lessons learned on how UniBonn applied SWOT Simulator and data to explore the value of SWOT in data for river and estuarine applications* (by **Luciana Fenoglio-Marc, UniBonn**) **(30 mins)**
  4. Q&A from Early Adopters for IIT Bombay, UniBonn or NASA SPoRT (**30 mins**)

10 Min Break

9.10AM-9.30AM (PST)

- *Introduction of Newest Early Adopters and their plans to assess the SWOT mission data*

  Texas Water Development Board (**10 mins**)

  Central Water Resources Development and Management- Kerala and IIT Bombay (**10 mins**)

9.30AM-11.30AM (PST) - *Hacking EA projects* **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **IIT-Delhi** (Helper: Akhilesh Nair, IITB) **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **ADPC** (Helper: Nishan K. Biswas, UW) **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **PCRWR** (Helper: Shahryar K. Ahmad, UW) **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **FMGlobal** (Helper: Nicholas Elmer, NASA SPoRT) **(2 hours)**

Parallel Zoom breakout session for **CWRDM** (Helper: Vinayak Huggannavar , IITB) **(2 hours)**

7AM-9AM (PST) – *Hacking EA projects* **(2 hours)**

Parallel Zoom group discussion (breakout) session for **UniBonn, Stantec and Mercator, IGE** (discussion with Lucile Gaultier, Ocean Data Lab; Luciana Fenoglio-Marc of UniBonn, Mounir Ben-Kiran of Mercator, Sammy Metref of IGE, Stantec EA rep) **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **Texas Water Development Board** (Helper: Hisham Eldardiry, UW) **(2 hours)**

BREAK **(30 mins)**

9.30AM-11.30AM (PST) – *Hacking EA projects* **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **IIT-Delhi** (Helper: Akhilesh Nair, IITB) **(2 hours)**

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Parallel Zoom 1-1 hack (breakout) session for **CWRDM** (Helper: Vinayak Hugganvar, IITB) **(2 hours)**

SESSION 4 (March 11 Wednesday) *FOR EARLY ADOPTERS ONLY (passcode required for Zoom*

7AM-9AM (PST) – *Hacking EA projects* **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **Texas Water Development Board** (Helper: Hisham Eldardiry, UW) **(2 hours)**

Parallel Zoom 1-1 hack (breakout) session for **FMGlobal** (Helper: Nicholas Elmer, NASA SPoRT) **(2 hours)**

Parallel Zoom group discussion (breakout) session for **UniBonn, Stantec, Mercator IGE** (discussion with Lucile Gaultier, Ocean Data Lab; Luciana Fenoglio-Marc of UniBonn, Mounir Ben-Kiran of Mercator, Sammy Metref of IGE, Stantec EA rep) **(2 hours)**

9.30AM-11.30AM (PST) – CLOSING SESSION

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

ADJOURN March 11, Thursday 11.30 AM PST