SWOT Early Adopter Hackathon 2020

Location: University of Washington

May 26-2020- May 29, 2020

TENTATIVE AGENDA *(SUBJECT TO CHANGE)*

Please check website frequently for updates

DAY 1 (May 26 Tuesday)

- Overview of Hackathon objectives **(30 mins)**
- Introduce Organizers EAs; Introduce hackathon helpers from UW, CNES, EA etc.
  Show map of each EA and click on 'current progress' tab on the SWOT website.
- Overview of each EA project; Each EA has to articulate where exactly the project is 'stuck' or moving at in terms of data, coding and software development (15 mins each; 5 mins for overview and 10 mins for specific hurdles they face) **(3.5 hours – 9 EAs)**

REFRESHMENT BREAK (12.30PM-1PM)

PM (1PM-5PM)

- Overview of remaining EA project **(30 mins - 2 EAs)**
- Hands-on exercise on generating inputs for SWOT simulator (CNES Large scale Simulator). **(3.50 Hours)**
  Instructor is Matt Bonnema

DAY 2 (May 27 Wednesday)

AM (8.00AM-12PM)

- Hands-on exercise on reservoir-river system wrap up (**0.5 Hour**)
- Hands-on exercise completion. Each EA submits his/her assignment to instructor Matt Bonnema **(3.5 Hours)**

REFRESHMENT BREAK (12PM-1PM)

In parallel to the refreshment break, EAs will be introduced to a Global Reservoir Assessment Tool (RAT) at http://www.satellitedams.net by Nishan Biswas (30 mins) This will be a working refreshment.

PM (1PM-5PM)

- Introduction to SWOT CNES Hydrology Simulator, LOCNES and RiverObs (Damien or Claire) **(1.5 Hour)**

- SWOT CNES Hydrology Simulator from the EA perspective – overview by NASA SPoRT Nicholas on the simulator, likely issues, best practices. Overview of the tutorial. **(30 mins)**

10 min break followed by hands-on session by EAs.

- Recap of hurdles faced by each EA on data handling, coding, and software development (towards the press release). EAs begin to work on their project with hackers to solve the issues **(2 Hours)**

Day 3 (May 28 Thursday)

EAs continue working on the EA projects **(4 hours)**

- Hacking of EA project 1-1 (contd.) **(4 Hours)**

Day 4 (May 29 Friday)

- Summary presented by each EA on the hacking of their EA project (**4.0 Hours**)

- Hearing from EAs on needs and 'what else?' for future planning **(1 hour)**
- Discussions, Q&A **(2 hours)**
- Overview of the hackathon, sum-up. summary of progress made, hurdles overcome, failures, new hurdles etc. **(1 Hour)**