

# SWOT River Science Splinter

## Meeting Agenda

SWOT Science Team Meeting

June 28/29, 2022

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Ernesto Rodriguez & Fabrice Papa

# Major Themes from River Science Working Group Meetings

River Science Beyond DAWG Discharge Data Product  
Playing with others: SWOT & other missions and products

How to engage with the mission activities before and after launch

# US Meeting Agenda (UNC Tuesday 13:30 EDT)

1. Splinter meeting plan and goals (Rodriguez)
2. A global view of multi-threaded rivers (Wang)
3. Representing multi-threaded rivers by a single thread: numerical experiments (Carr)
4. The Tanana multi-threaded river discharge estimation (Frasson)
5. Reconstructing river water level time series from multi-mission satellite altimetry – reach based methods (Nielsen)
6. Open discussion of community topics (see below)

# French Meeting Agenda (TLS Wednesday 8:30 CEST)

1. Splinter meeting plan and goals (Papa, 5')
2. Recap of US meeting (Rodriguez, 10')
3. ToolBoxSWOT (S. Ricci & C. Emery, 12')
4. Representing multi-threaded rivers by a single thread: numerical experiments (Carr, 12')
5. Reconstructing river water level time series from multi-mission satellite altimetry – reach based methods (Nielsen presented by Luciana Fenoglio-Marc, 12')
6. River slopes, techniques, accuracy and limitations (D. Moreira, 12')
7. DAHITI - Deriving hydrological products for inland waters using remote sensing and future integration of SWOT data (C. Schwatke, 12')
8. Open discussion of community topics (see below)

# River Science Beyond DAWG Discharge Data Product

Importance (or not?) of incorporating multi-thread channels in SWORD for improved discharge retrievals and scientifically useful data products

Utility of SWOT water surface slopes beyond discharge retrieval

Connecting river/wetland/lake observations (with SLEW RG)

How do we deal with the coastal zone?

# Playing with others: SWOT & other missions and products

Combining SWOT measurements with measurements from other satellite missions

How do we deal with the coastal zone?

Synergy with river color/sediment data set

# How to engage with the mission activities before and after launch?

Early access to point cloud data for a) CalVal sites; b) non-CalVal sites.

Participation in CalVal using data from other satellites or non-official in situ sources.

Access to sample data products (point cloud and RiverObs) prior to launch

- <https://podaac.jpl.nasa.gov/swot?tab=datasets>

Access to final data product description and ATBDs prior to launch

- <https://podaac.jpl.nasa.gov/swot?tab=datasets>