

SWOT Science Team Preliminary Agenda: 17-21 June 2024

Monday 17 June - Plenary

8:00-8:55 Registration/Coffee

8:55-9:00 Welcome from UNC Dean of Arts and Sciences James White

9:00-10:30 Introduction to SWOT (Moderator: Rosemary Morrow)

9:00 *Realising SWOT's potential*, Nadya Vinogradova-Shiffer

9:15 *French agency perspective on SWOT (title TBC)*, Yannice Faugere & Delphine Leroux

9:30 *SWOT: the Scientific Journey*, Rosemary Morrow and Lee Fu

9:45 *Ocean Fine Scale Dynamics*, Tom Farrar, Francesco d'Ovidio, Gerald Dibarboure

10:00 *A first view of river discharge from SWOT*, Hind Oubanas, Colin Gleason, Paul Bates

10:15 *Lakes and Reservoirs from SWOT*, Jida Wang, Sylvain Biancamaria, Melanie Trudel

10:30 Break

11:00-12:30 Expanding the reach of SWOT (Moderator: Tamlin Pavelsky)

11:00 *SWOT and Wide Swath Altimetry in the past, present, and future*, Ernesto Rodriguez

10:30 *Gravity, Bathymetry, and Seafloor Tectonics from SWOT*, David Sandwell, Yao Yu, and Gerald Dibarboure

11:15 *SWOT and the Coast*, Nadia Ayoub, Marc Simard

11:30 *SWOT and the Cryosphere*, Larry Smith, Cassie Stuurman

12:00 Jack Eggleston, US Geological Survey

12:15 Pierre-Yves Le Traon: Copernicus Marine Service (remote)

12:30 Eric Tardieu, Managing Director, l'Office International de l'Eau (remote)

12:30-13:30 Lunch Break

13:30-15:00 Panel discussion with speakers (Moderators: Rosemary Morrow and Tamlin Pavelsky)

13:30 Panel 1: Surface Water from SWOT

14:15 Panel 2: Ocean Topography from SWOT

15:00 Break

15:30-17:00 SWOT Project Updates, Data Access and Tools (Moderator: Tom Farrar)

15:30 SWOT NASA/CNES Program status (N. Vinogradova Shiffer and Y. Faugere)

15:45 SWOT Project Status (P. Vaze and C. Marechal)

16:15 SWOT products and tools: PODAAC, hydroweb.next, AVISO (30 mins)

16:45 SWOT communications introduction (J. Lee) (5 mins)

16:50 Questions and Discussion

17:00 Ocean & Hydrology Poster Session: Part 1 (Science Team Posters 2023-2024 & continuity 2024+)

SWOT Science Team Meeting, June 17-21, 2024

Chapel Hill, North Carolina

Background

The SWOT mission brings together communities focused on a better understanding of the world's oceans, its terrestrial surface waters, and the coastal and estuarine environments that lie in between. U.S. and French oceanographers and hydrologists and international partners have joined forces to develop this satellite mission to make the first global survey of Earth's surface water, observe the fine details of the ocean's surface topography, and measure how these water bodies change over time.

This meeting will take place in three parts. Day 1 will focus on exciting new results and the potential for future advances from SWOT, and a broad spectrum of partners will be invited to participate in person or online. On Days 2 and 3, the SWOT Project will present results of its official validation efforts and convey the current best understanding of the mission's capabilities relative to its science requirements. Days 4 and 5 will return to the Science Team Meeting portion of the agenda, with both breakout and plenary sessions.

Meanwhile, we will have three poster sessions running concurrently with the oral sessions to present science results in detail. Day 1 will focus on posters representing progress from current science team projects. Days 2 and 3 will focus on posters from early career researchers working on SWOT. Day 4 will represent an opportunity for newly selected projects to present posters on their planned projects.

Meeting Objectives

This is the first science team meeting in which the team will have had access to substantial amounts of SWOT data for long enough to conduct meaningful analyses. It is also the final meeting of the current science team and the first meeting of the incoming science team. As such, our objectives are to:

- (1) Hear the SWOT Project Team's assessment of the instrument performance and the strengths, weaknesses, and issues of the current version of the data set,
- (2) Present and discuss exciting new results that leverage SWOT data and continue the discussion of SWOT's performance for conducting scientific analysis.