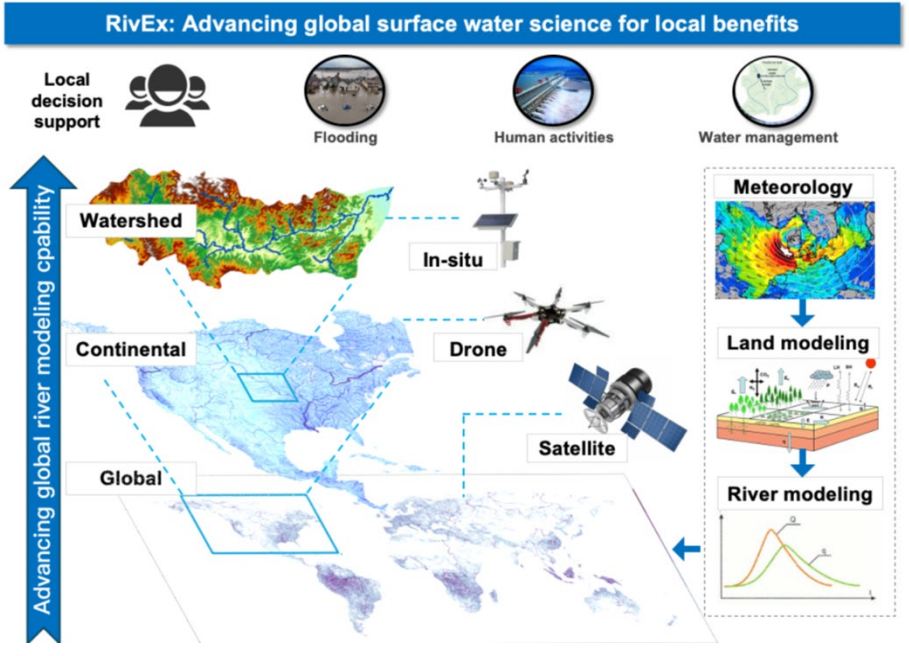
Global Hydrological Modeling Working Group

- Group leads:
  - Augusto Getirana (GSFC), Cedric David (JPL), Simon Munier (CNRS/Meteo-France), MJ Tourian (Univ. Stuttgart)
- We have a new mailing list: swot-ghym@jpl.nasa.gov
- Themes:
  - Global water cycle
  - River routing
  - Lake/Reservoir modeling
  - Data assimilation / calibration
  - Error propagation (uncertainty)
  - Earth system interactions
  - Other themes?
- First meeting: 11am ET on Nov 12
- Everyone welcome!
  - Please reach out to us



Oral presentations

Colin Gleason: Using SWOT to assess and correct global hydrology models

Stephen Chuter: Assessing Global Flood Inundation Model Accuracy with SWOT HR Raster Observations

Kaush Verma: Advancing Global Hydrological Assimilation: First Applications of CTRIP-HyDAS with Real SWOT Observations

Augusto Getirana: Towards a better understanding of global terrestrial water storage and fluxes through SWOT data assimilation

~~**Sly Wongchuig:** Towards Consistent Hydrological-Hydrodynamic Predictions at Large Scale: Multi-Satellite Data Assimilation in the Amazon and the Emerging Role of SWOT Observations~~

Pierre-Andre Garambois: SWOT-Hydro2-Learning (tosca project): Learning regionalization of hydrological-hydraulic models and discharge laws over river networks with SWOT and multi-source data assimilation

Leo Pujol: Variational Assimilation of SWOT Altimetry into a 1D-2D Porosity-based Hydraulic River Model with Upstream Hydrology: Toward Integrated Hydrological-Hydraulic Discharge Estimation from SWOT

Poster session

Mohamed Amine Berkaoui: A Raster-Vector Hydrologic-Hydrodynamic Modeling Framework for Regional Applications with SWOT and Multi-Source Data Integration: Toward Effective Bathymetry Learning

Simon Jakob Köhn: Joint training of hydrologic and hydraulic models Using Deep Learning and SWOT Pixel Cloud Data for the Torne River

Manu K Soman: Evaluating the potential of reach water surface elevation product from SWOT mission using Assimilation and Hydrodynamic modelling

Stephen Chuter: SWOT Derived River Bathymetry for Global Flood Model Applications

~~**Yeosang Yoon:** Assimilation of SWOT water surface elevation data for enhanced modeling of surface water dynamics~~

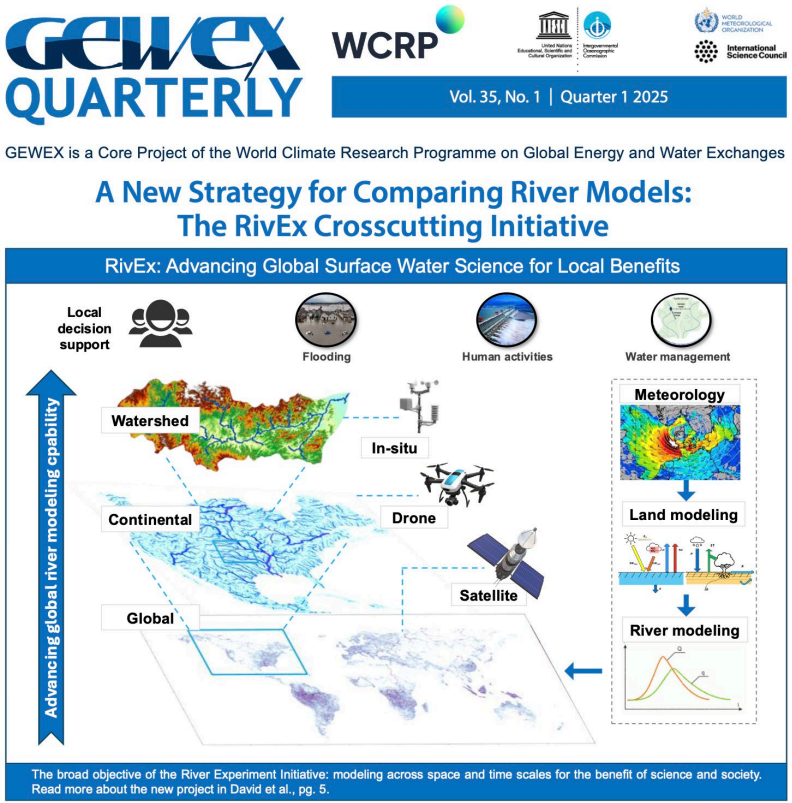
Elizabeth Altenau: SWOT River Database (SWORD) Updates

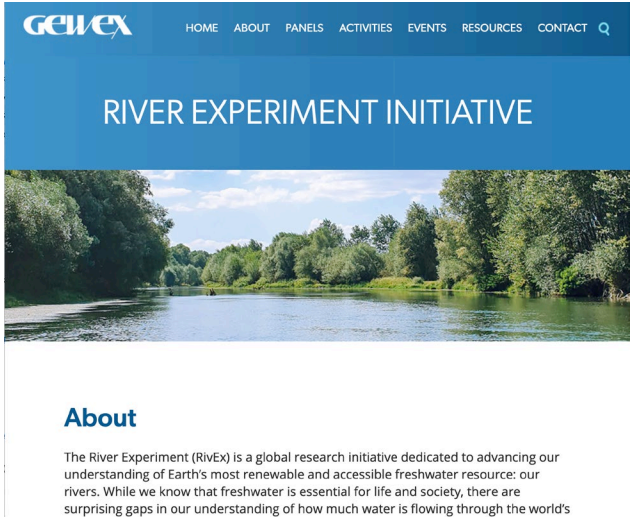
Elena Goalic: Towards integrating Pixel Cloud HR SWOT data into a hydrogeological model

Yuanzhi Ma: Leveraging SWOT Data to Improve Coupled Lake–River Routing Models

Anne-Marie Laroche: Contribution of SWOT Data to Wetland Hydrological Modelling with HYDROTEL: The Oromocto Watershed Case Study

Join the GEWEX River Experiment!





https://www.gewex.org/river-experiment-initiative/

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