



CNRM, UMR 3589

SEMINAIRE CNRM

mercredi 23 novembre 2022 à 10h

***HYDROLOGY IN INDIA FROM THE VANTAGE POINT OF
SURFACE WATER AND OCEAN TOPOGRAPHY (SWOT)
MISSION***

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Résumé :

The first dedicated mission for measurement of river stages, the Surface Water and Ocean Topography (SWOT) mission is proposed to be launched in 2022. The river stage measurements from SWOT shall empower hydrologists to detect transboundary flows for downstream nations by providing observations of width, height and slope for large terrestrial water bodies. With SWOT providing worldwide mapping of river levels over $\sim 2 \times 60$ km swath with a repeat cycle of 20.9 days, how does this assist Indian hydrology? This talk shall examine the potential of SWOT for India. Results using CNES Large scale hydrology simulator to generate proxy SWOT water surface elevations shall be discussed over lakes, rivers and reservoirs of India.