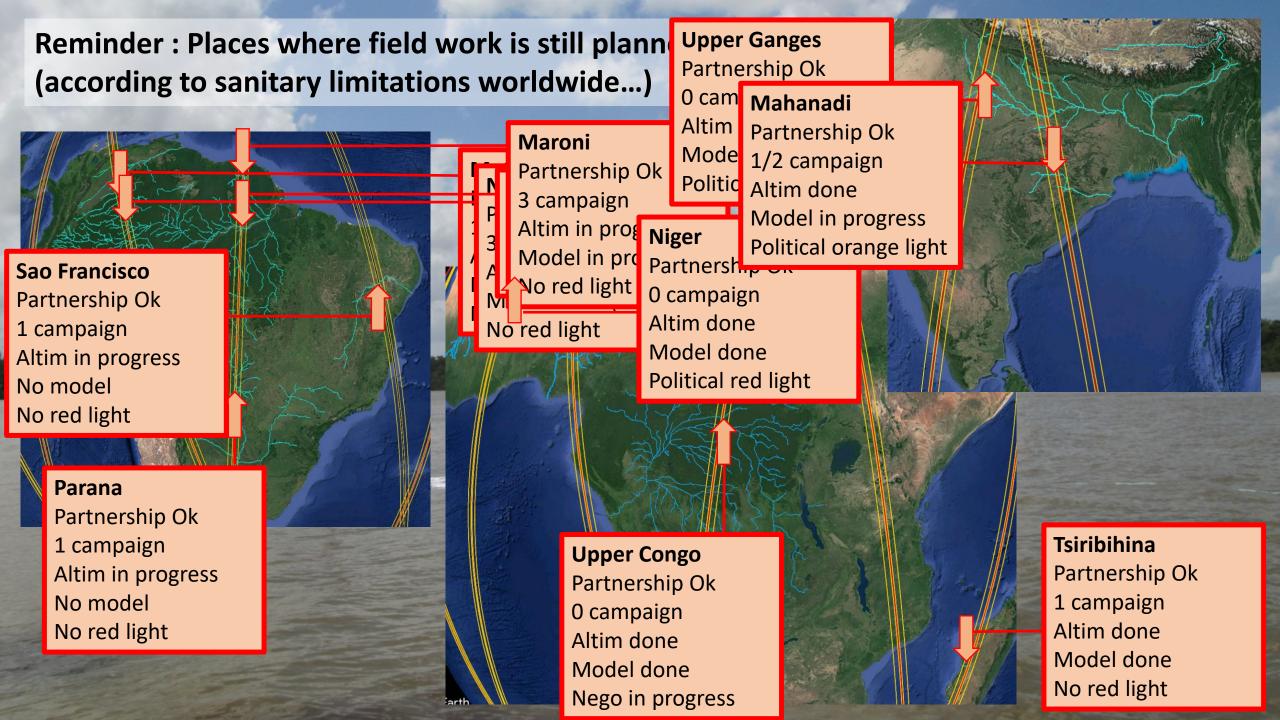
# Getting ready for SWOT over inland waters

Cal/Val: French activities
(French Guyana, Maroni River)

**September 15, 2021 Stéphane CALMANT and many others** 



# Actions to be undertaken asap (before launch)

- Build another CalNaGeo device and repair the one damaged in last campaign
- Purchase pressure sensors
- Plan / secure logistics with partners and
- perform at least one campaign on each site before launch, including:
  - CalNaGeo survey
  - Pressure sensor installation
  - ADCP measurements
  - Levelling of the sensors and in-situ gauges, whenever possible
- Organize data storage, processing & distribution
- Proceed with basin models implementation

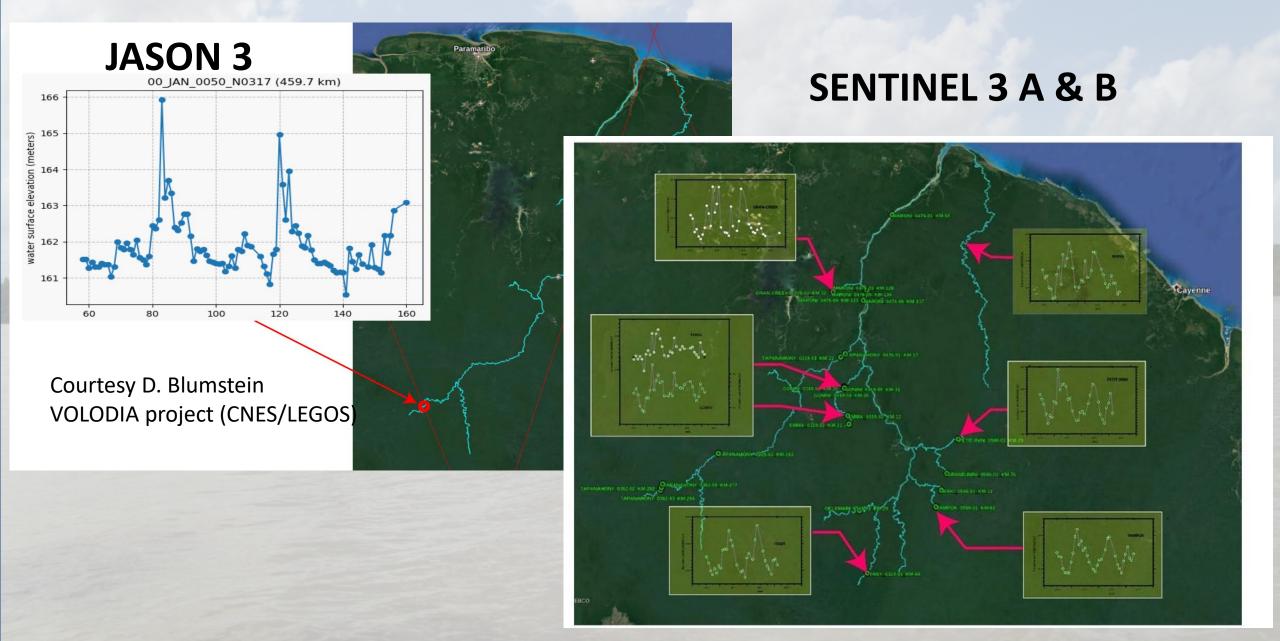
... all in progress

### MARONI SITE (has become our 1st priority)

#### Maroni River is altogether:

- A river in a french territory (access facilitated)
  but also a transboundary river of major political interest
- A river in the Tropical band (not so many in our countries)
- A river 1- in South America 2- shared w a Least Developed Country (good to motivate other-than-Northern stakeholders)
- A river fully overflown by SWOT during the first orbital phase (Cal/val) and by current missions (S3A, S3B and S6, good for sat-sat comparison)
- A river with large spatial and temporal changes in height and slope

#### Satellite altimetry to prepare SWOT Cal/val: a test case for the VOLODIA project

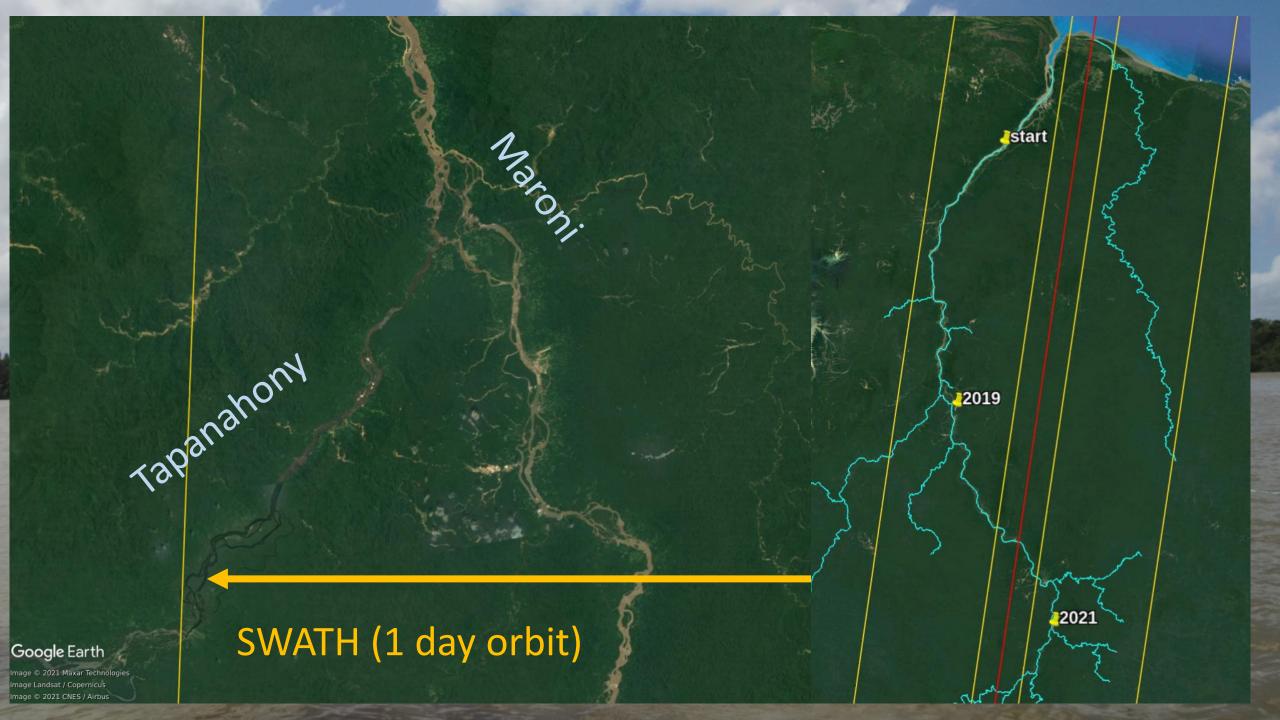


#### **Actions undertaken:**

- Set up local partnership
- International partnership in progress (1st campaign in Surinam next month)
- 3 campaigns
- Rise funds ...
- find manpower (hired for all the SWOT cal/val = 2 years all sites)

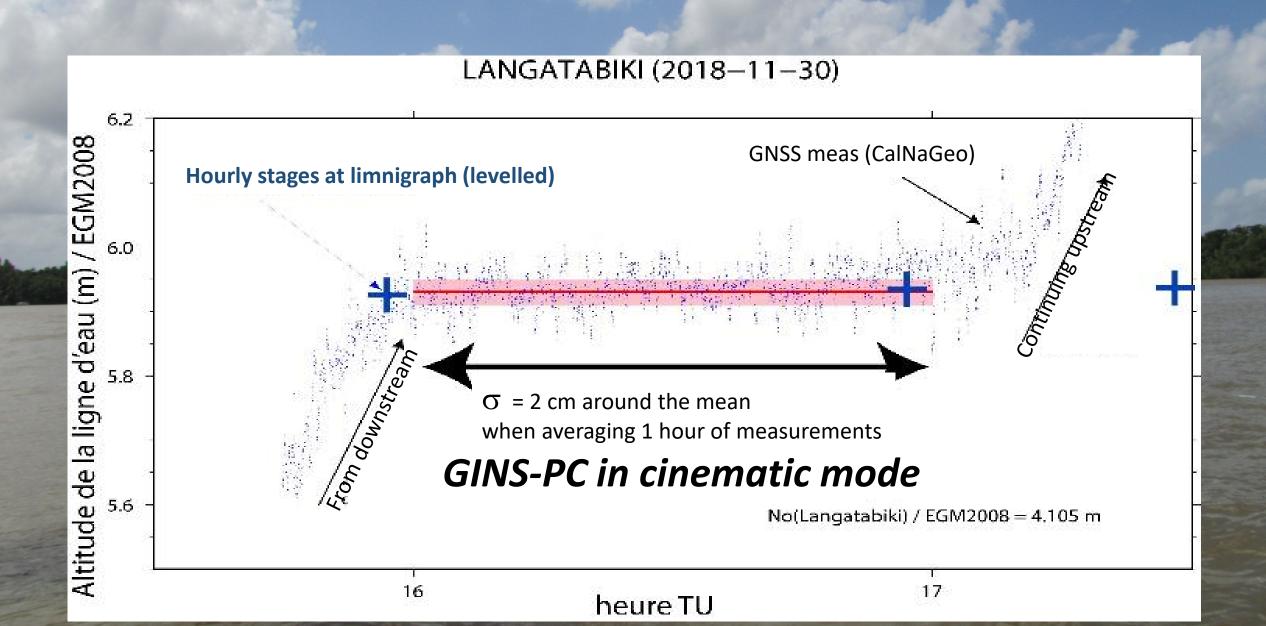


- Start model implementation

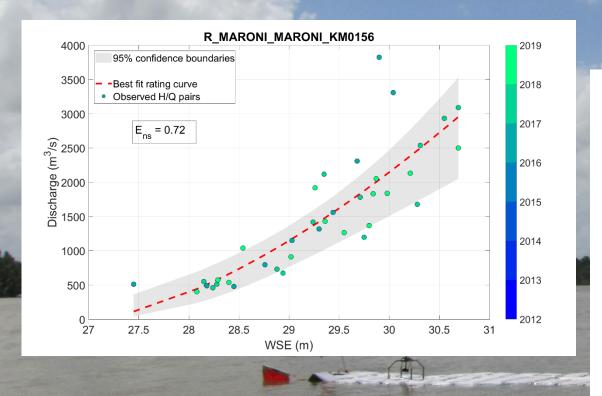




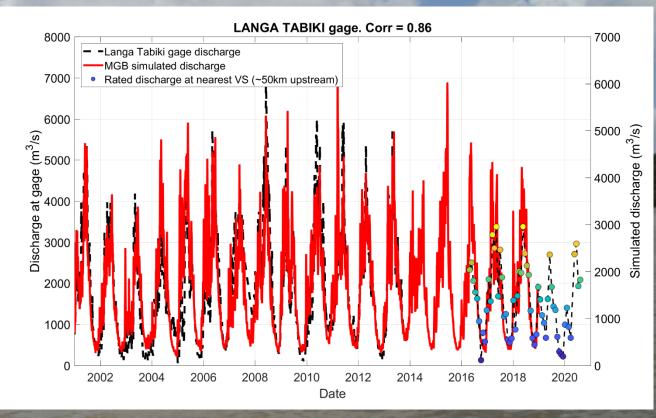
## Levelling of the operational limnigraphs



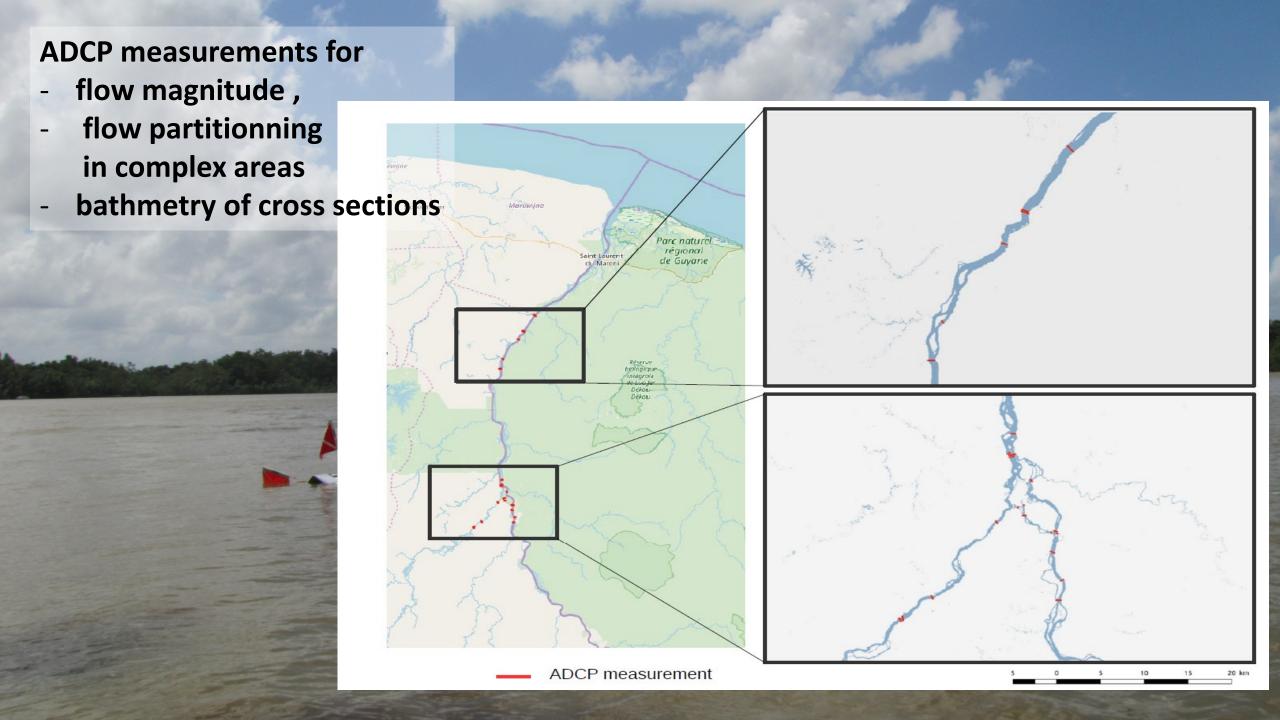
# Hydrological modelling including current altimetry



Courtesy A. Paris



Hydrodyn. modeling in progess (Master thesis)



# To be Continued .....

