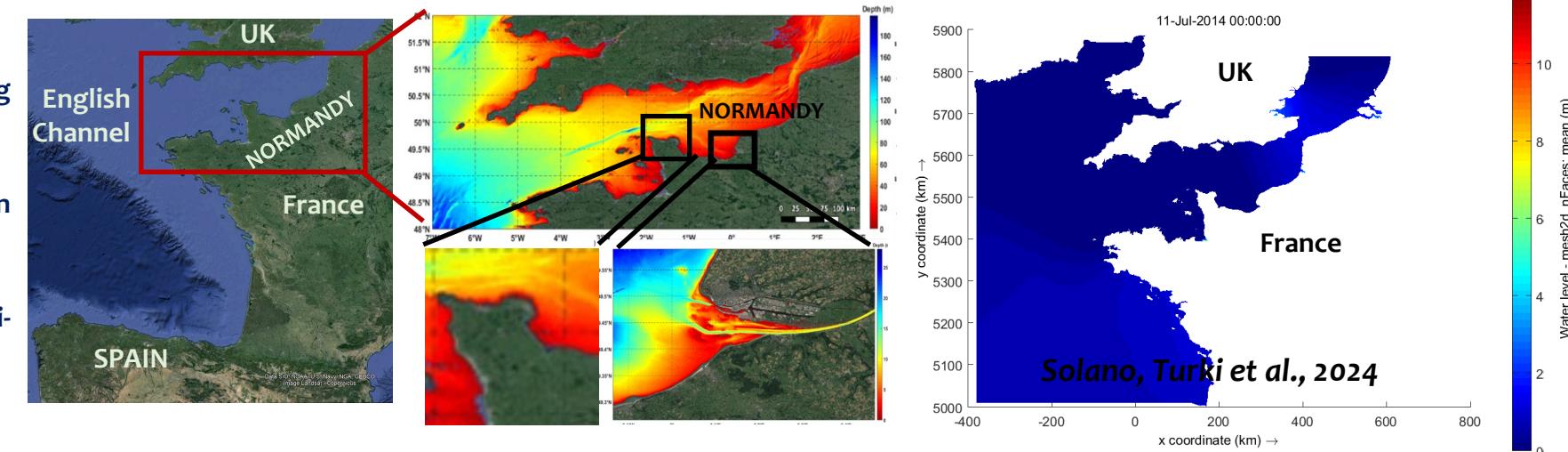


✓ Contribution of SWOT for:

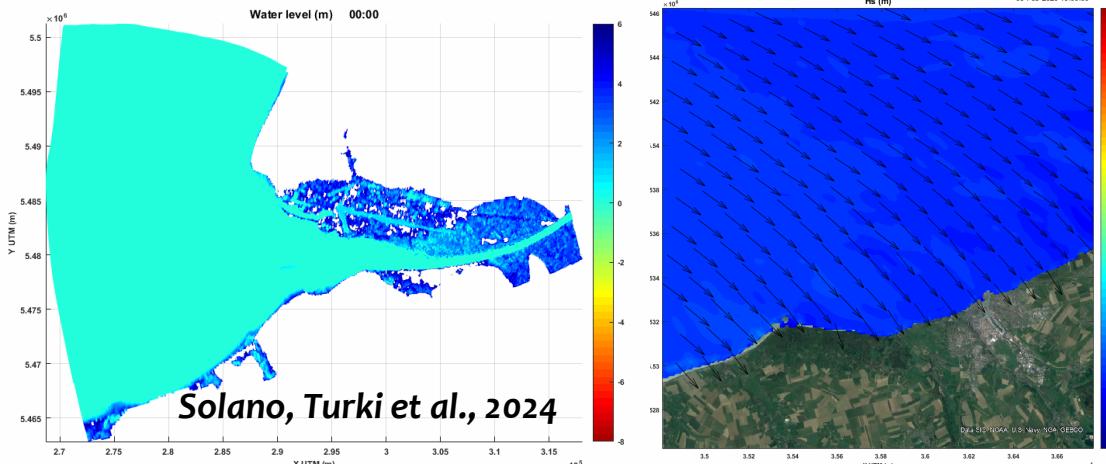
1. Monitoring hydro-morphodynamics.
2. Enhancing the numerical modelling for estimating changes in regional-local scales.
3. Investigating the tidal wave deformation in interaction with river flow in estuaries

✓ Development of Combining approaches: Multi-sensors – Models – AI - Statistical methods

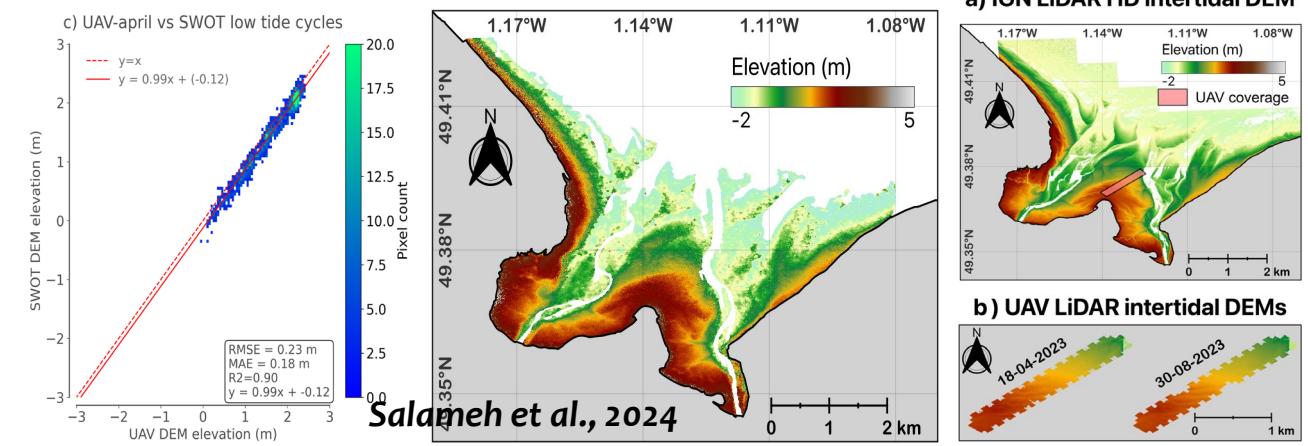
Framework Tosca Programs : SWOT3MC - SWOT4COST



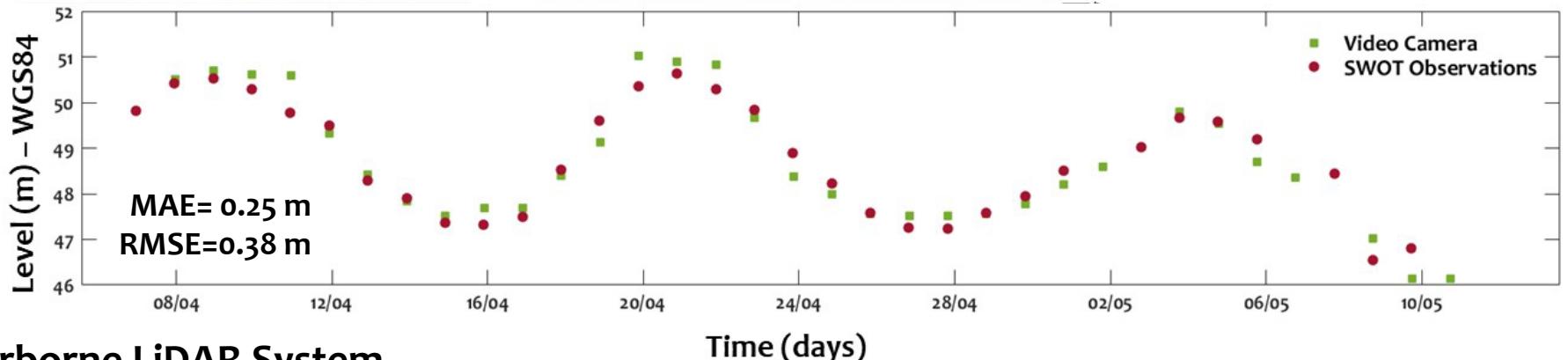
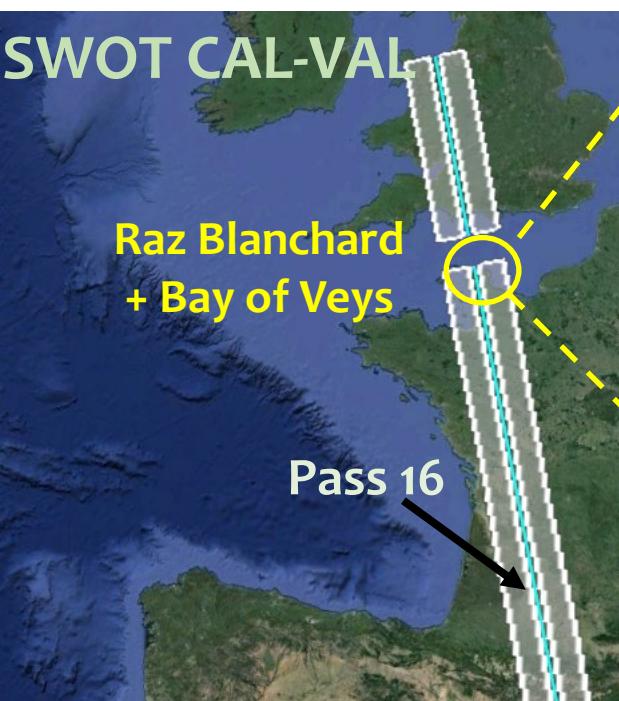
Coastal Flooding: Seine Estuary + Normandy Coasts : phase and depth-resolved Modelling



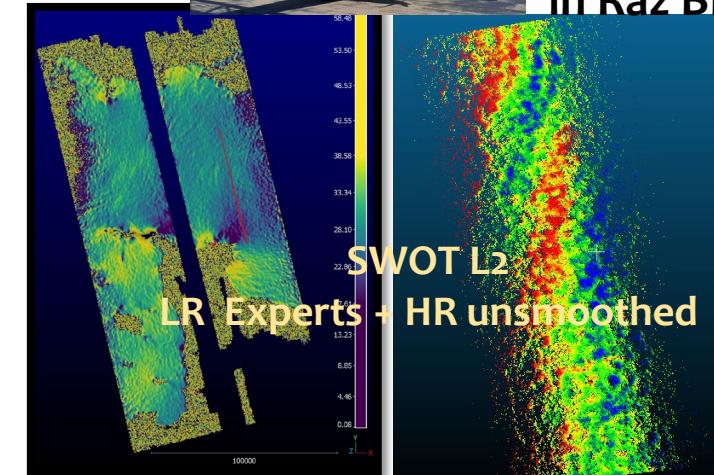
Coastal Morphology: Bay of Veys; Monitoring intertidal topography using SWOT PIXC + Validation against LIDAR Data



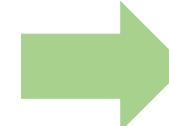
SWOT CAL-VAL



Airborne LiDAR System
in Raz Blanchard and Bay of Veys



SSH SWOT L2 LR Unsmoothed pre-cal
(Point Cloud Normals Inclinaison in
degrees, neighborhood of
1.5 km) and LiDAR data (in red)



Further Challenges:

- ✓ High frequency waves + Spectrum
- ✓ Topo-bathymetric airborne LiDAR.

