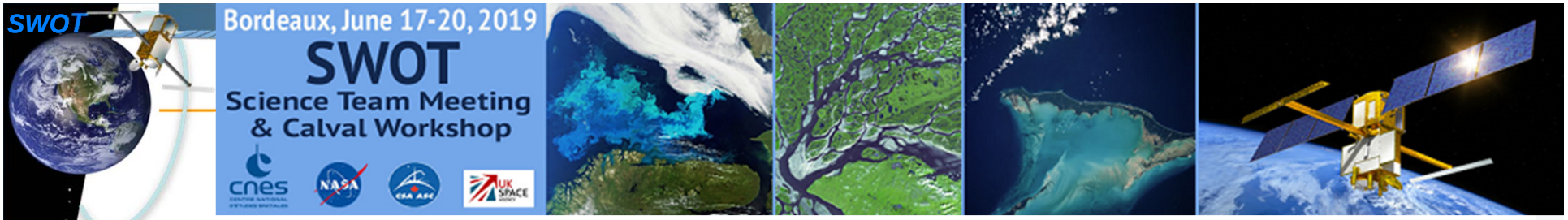
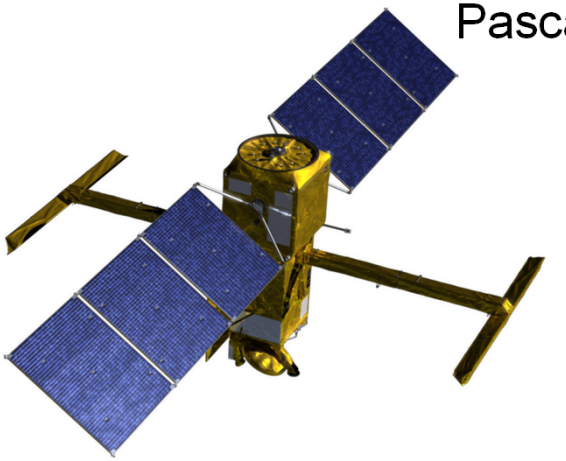
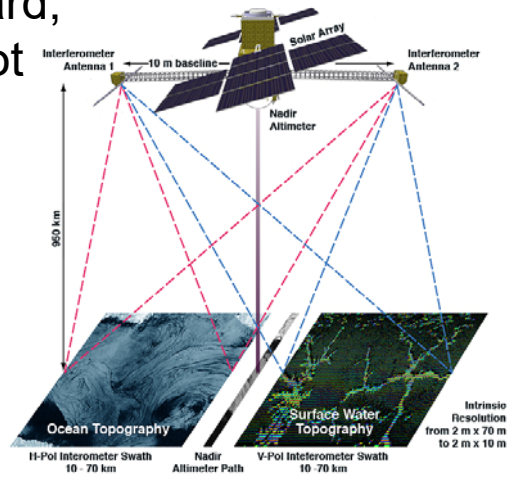


Panel discussion on capabilities of SWOT in coastal and estuarine environments

Benoit Laignel, Nadia Ayoub, Marc Simard,
Pascal Matte, Han Guoqi, Nicolas Picot





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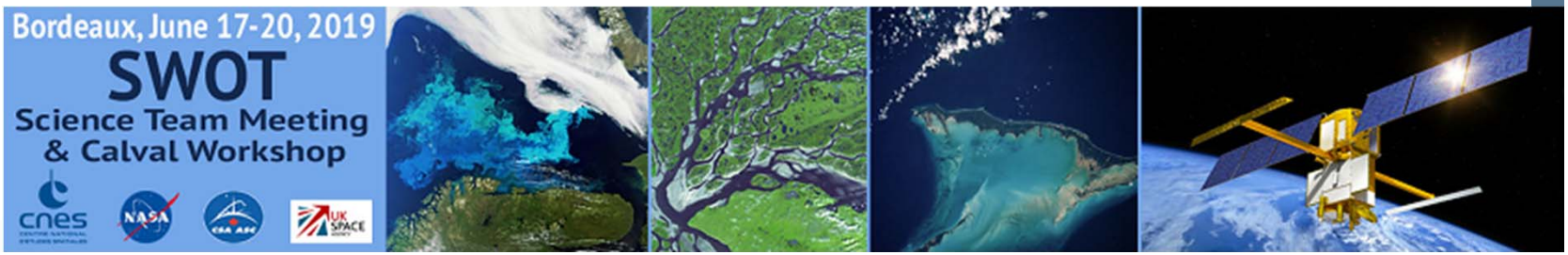
Questions/Elements of Discussion

1. To fully take advantage of the SWOT societal applications, we need to better understand the potential and limitation SWOT observation along the coast
2. What are the HR and LR products for estuaries and coasts (neashore & shelf) ?
3. How to improve the SWOT HR and LR simulators on the nearshore, shoreline and intertidal zone to simulate the hydrodynamics by integrating the different roughnesses & the layover phenomenon encountered in these environments ?
4. Cal/Val sites:
    1. what is our priority and what pre-launch and
    2. post-launch campaigns are we considering ?
    3. Is in situ (gauges) always giving the truth?
5. What is the developmental status of retrieval algorithms for:
    1. tidal signals in estuaries with the SWOT data ?
    2. discharge in estuaries with SWOT ?
    3. water fluxes and connectivity in the coastal wetlands and intertidal zones with SWOT ?