Synergy Between Altimetry and In-situ Observations to Investigate (Sub)mesoscale Processes

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1. Coastal processes
   ➔ Accuracy of coastal velocity fields needs to be improved (e.g. gridding schemes with bathymetry and coastline constraints)
   ➔ Product validation should include Lagrangian diagnostics (transport is the most valuable property for coastal applications)

2. Multi-sensor approaches
   ➔ Accurate directional information key to retrieve accurate total velocities (e.g. improve identification of flow-aligned and non-aligned fronts)
   ➔ Assess limitation of synergistic approaches in different regional settings
   ➔ (e.g. accuracy, resolution)

3. Open ocean processes
   ➔ Dynamical information below the surface to improve mesoscale transport and exchange estimates
   ➔ Identify the more suited products (reprocessed altimetry plus in-situ datasets or altimetry-assimilated numerical models?)