

COAST-VC Coastal Applications Capabilities & Gaps Assessment Charter

(2025-27 – dated September 24, 2025)

Purpose: A 15-month effort (commencing in October 2025) to convene subject matter experts (SMEs) who will perform a coastal zone (nearshore ocean/land) user-driven applications, capabilities, needs and gap assessment based on existing missions (and also provide identified opportunities from forthcoming missions when possible).

A 3-month effort to compile a summary report would follow. The primary deliverable will be a report with detailed appendices due to the SIT Chair in Quarter 2 2027. Any potential recommended actions would be contained in the report and presented at SIT in early 2027. This work and final report will be a CEOS COAST-VC contribution to the Space4Ocean Alliance (led by CNES) which aims to gather and use such useful information for later informing and designing future ocean/coastal missions

Scope: Applications within the global 'coastal zone' only will be considered in this analysis and subsequent report, with special attention within a zone of 1km of the shoreline. Polar regions are included as well. A multisensor, multiplatform, transdisciplinary approach will be developed to support the analysis framework.

Leadership & membership: COAST-VC would lead the effort and track progress for the CEOS Annual Work Plan. Members will address sub-domains according to expertise of the volunteers. General membership as a SME is open to voluntary, best effort participation of individuals, representing CEOS across its VCs and WGs. External subject matter experts with a connection to CEOS (associate organisations or participation in other CEOS-related activities) are also welcomed.

1. **TBD** List of Participating members (could be an appendix with affiliations and noting role(s))

Frequency of meetings and reporting: Virtual meetings will be held at a frequency needed to maintain active engagement, accomplish short term goals and achieve desired outcomes by April 2027.

Recommendations -

1. Initial Assessment Scoping: weekly meetings until an assessment scope is outlined and approved (target 30-60 days)
2. Assessment Activities: team meetings every 2-3 weeks and convened by team leaders, as needed to achieve assessment objectives for the desired parameter groups/
3. Reporting Progress: Members shall be encouraged to present their studies and work carried out as part of Scientific/Operational/Outreach knowledge sharing activities at every opportunity to achieve outcomes. Group Progress Reporting will take place via email monthly from sub workpackage leaders and 2 times per year for an all-hands held at least 30 days prior to SIT-level document sharing deadlines (4 total to include a kickoff and a final).

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Collaborative Document Management System: A dedicated subfolder in the COAST-VC collaboration space (google) to be used for all final deliverables and to track progress.