



EcoC2S – 1st Year Bulletin

Ecosystem services to enhance the resilience of coastal regions and communities to flood risks in a catchment-to-sea perspective

July 2026

Welcome Message

Welcome to the first-anniversary issue of the EcoC2S bulletin! EcoC2S brings together six partners across Europe to co-develop a holistic, catchment-to-sea approach to coastal flood risk – quantifying how natural systems and blue-green infrastructure protect our shores, and co-creating resilient pathways with the communities that depend on them. One year on from launch, we look back at the milestones, collaborations and early results of our first twelve months.

Project Overview

- **Primary Objective:** Co-develop a holistic, catchment-to-sea approach to flood risk assessment that quantifies the contribution of natural systems and blue-green infrastructure to flood protection, supporting the co-creation of ecosystem-service-based resilient pathways.
- **Approach:** Integrated modelling of compound flood hazard (river discharge, tides, surges and waves) alongside the social valuation of ecosystem services and stakeholder co-creation.
- **Consortium:** Six partners across five countries – University of Granada (coordinator), Università Politecnica delle Marche (IT), Universidade Lusófona/COFAC (PT), Karlsruhe Institute of Technology (DE), Institute of Geophysics Polish Academy of Sciences (PL) and University of Santiago de Compostela (ES).
- **Coordinator:** María Bermúdez – University of Granada.
- **Timeline:** 2025–2028
- **Funding:** Water4All Joint Call 2023 (European Union's Horizon Europe Programme)

Project Highlights: Milestones & Early Achievements

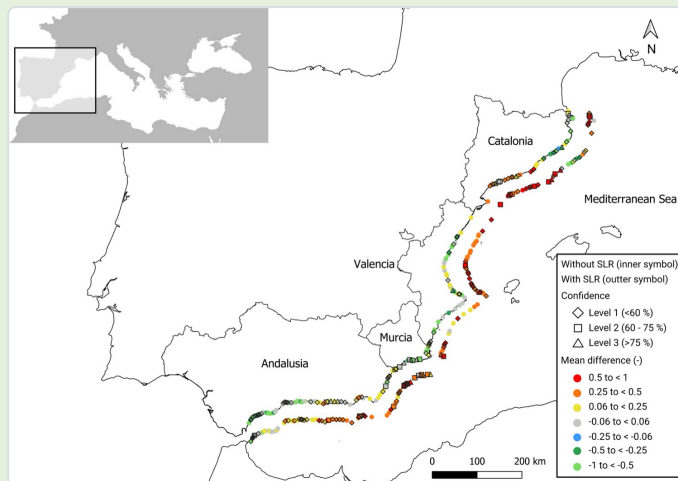
- ✓ **Participation in the REWRITE L-MAL, Cádiz** (24 April 2026). Miguel Ortega-Sánchez and María Bermúdez joined the Local Multi-Actor Laboratory of our sister project REWRITE at Los Toruños (Cádiz), where ~40 stakeholders co-designed rewilding and revitalisation pathways for the bay's marshlands. [Read more](#)
- ✓ **Continued contribution to the Water4All Knowledge Hub**, sharing project insights and collaborating with other projects funded under the 2023 call; the sea-focused projects (incl. EcoC2S) are jointly developing a Causal Loop Diagram for Coastal Ecosystem Services Delivery for a future publication.
- ✓ **1st in-person partner meeting – Senigallia–Ancona, Italy** (19–20 May 2026), hosted by Università Politecnica delle Marche: stakeholder focus groups (Day 1) and work-package progress plus mid-term-review preparation (Day 2).

✓ **Conference participation.** At **River Flow 2026** (13th Int. Conference on Fluvial Hydraulics, Thessaloniki, 30 Jun–4 Jul 2026), **Prof. Maurizio Brocchini** (Università Politecnica delle Marche) presented *Sea-river interactions at microtidal estuaries* (EcoC2S-supported), and **Michael Nones** (Institute of Geophysics, Polish Academy of Sciences — IGF PAN) presented two studies on satellite-based river management and remote sensing of meandering-river flooding. At the **3rd Polish Water Congress** (Bydgoszcz, 1–2 Jun 2026), **Dr. Iwona Kuptel-Markiewicz** (IGF PAN) promoted EcoC2S among Polish stakeholders. Researchers from **Universidade Lusófona (ULus)** also presented *Developing a Community-Based Framework for Flood Risk Assessments* at the SRA-E Iberian Chapter meeting in Alicante.

✓ **Three new publications** (see below).



The EcoC2S consortium at the 1st in-person partner meeting, Ancona (Italy), May 2026.



Change in compound flooding potential under sea-level rise. Jiménez et al. (2026), *Commun. Earth Environ.* (CC BY 4.0).

New Publications

- Silva-Santana, M., Bermúdez, M., Del-Rosal-Salido, J. & Ortega-Sánchez, M. (2026). *Automated detection of river mouth opening and closure using cloud-based processing of Sentinel-2 imagery*. *Estuarine, Coastal and Shelf Science*. doi.org/10.1016/j.ecss.2026.110052
- Jiménez, J.A., Del-Rosal-Salido, J., Giaroli, F. et al. (2026). *Sea-level rise is projected to reshape compound flooding potential in microtidal environments along the Spanish Mediterranean coastline*. *Communications Earth & Environment*. doi.org/10.1038/s43247-026-03712-8
- Brocchini, M., Marini, F. & Baldoni, A. (2026). *Wave–current interactions within microtidal systems*. *Coastal Engineering*. doi.org/10.1016/j.coastaleng.2025.104932

Upcoming Activities

- 17 **Local Focus Groups (Cádiz)** — in-person sessions on coastal dynamics and ecosystem services
- 17 **Online Surveys** — launching soon to broaden stakeholder engagement
- 17 **2nd Stakeholders Advisory Board meeting** — high-level online meeting on project progress and strategic priorities for the next phase
- 17 **Scientific conferences** — the consortium will present EcoC2S at **GEOLIT 2026** (Cádiz, 23–25 Sep 2026), **ECSA 61** (Belgium, 24–27 Aug 2026), **STAHY-ICGW 2026** (Zimbabwe, 14–17 Jul 2026) and the **XLIV International School of Hydraulics** (Poland, 18–21 May 2027), co-organised by IGF PAN

Stay Connected

- **Website:** ecoc2s-water4all.dinamicambiental.es
- **LinkedIn:** linkedin.com/company/ecoc2s-eu-water4all-2023-project

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