



SEA THE VALUE
MARINE BIODIVERSITY BENEFITS
FOR A SUSTAINABLE SOCIETY



Nov 2022-2025

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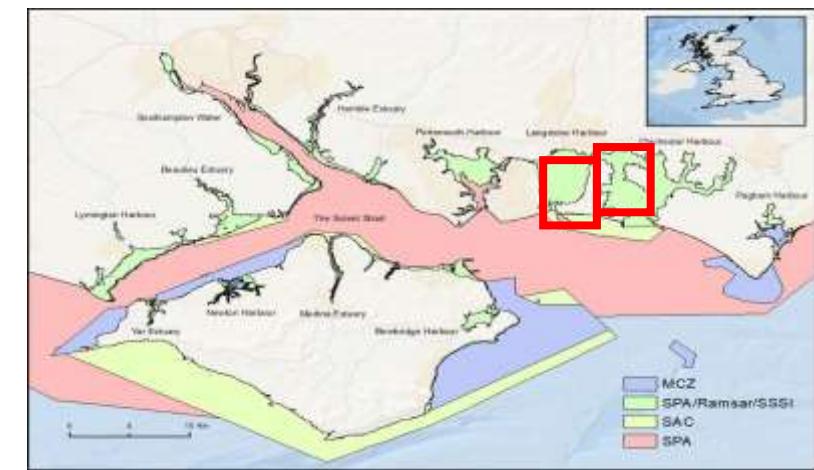
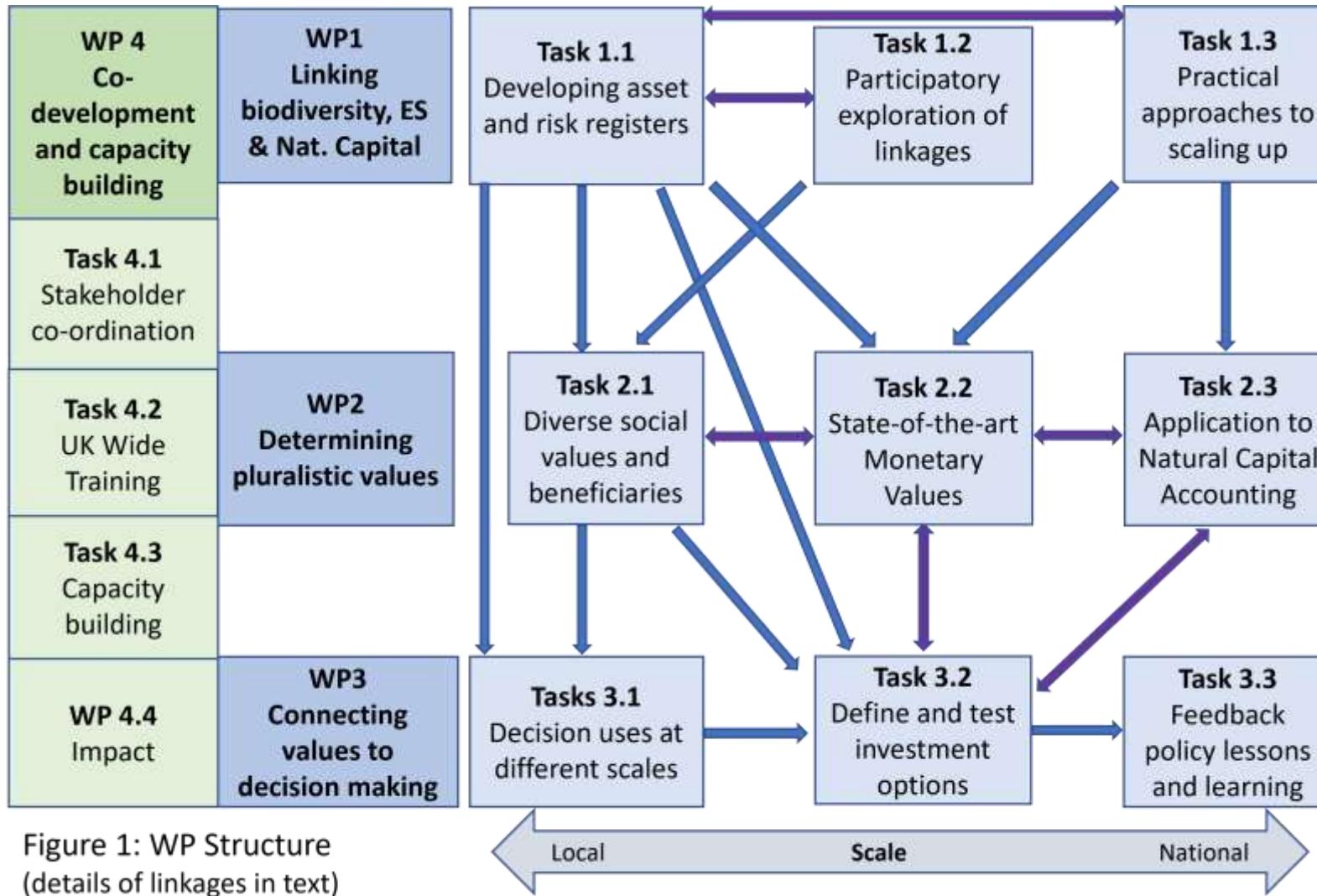
Aim



- To determine values of marine biodiversity to help co-develop green investment
- **Objectives** (Bioremediation and CSS)
 - Quantify
 - Determine
 - Connect



WP structure

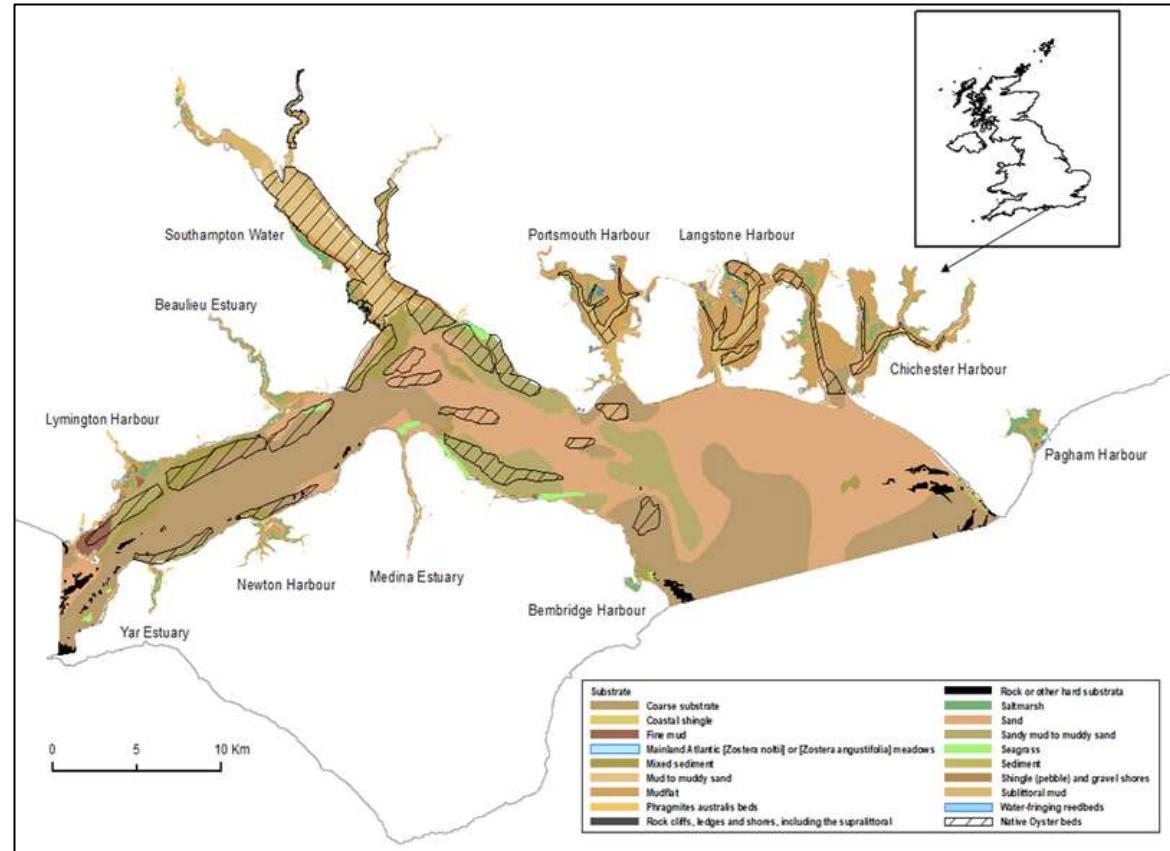


Initial tasks (Solent)

- Task 1.1. Asset register, assess risks, sample collection
 - Task 1.2. Participatory mapping
 - Task 1.3. Scale up for Defra
-
- WP 2. Social beneficiaries, Monetary valuation
 - WP 3. Co-design evidence-based green investment,

Next steps (Solent)

- Identify and connect with relevant stakeholder archetypes
 - Data sources
 - Participatory mapping





SEA THE VALUE

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We look forward to
working together!

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THE SOLENT FORUM
Working in partnership for the future



eftec economics for
the environment



Interreg



France (Channel
Manche) England

RaNTrans

European Regional Development Fund

Identifying key risks to successful restoration in the Solent

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ALGAE TECHNOLOGY
& INNOVATION
CENTRE

Dataset challenges

- EA repository

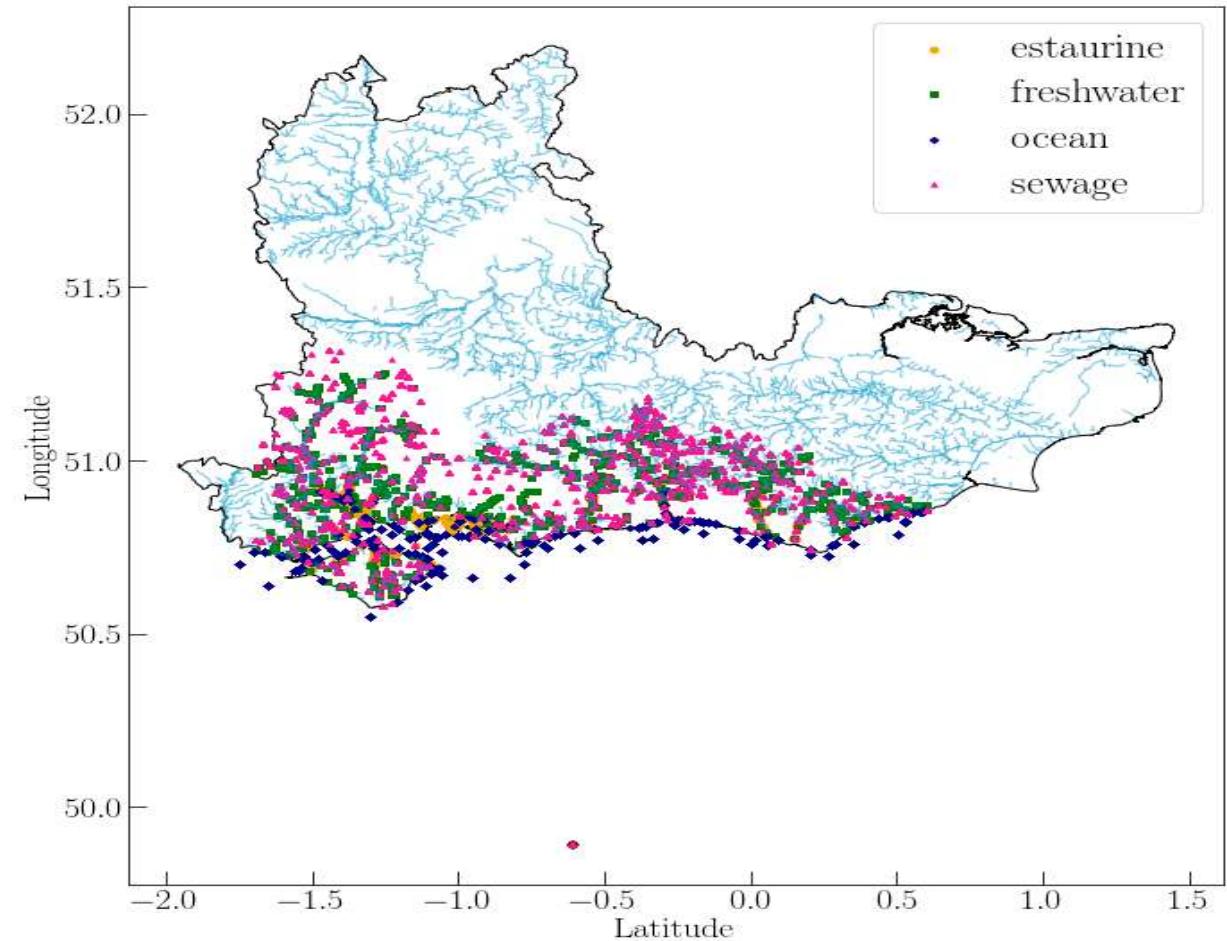
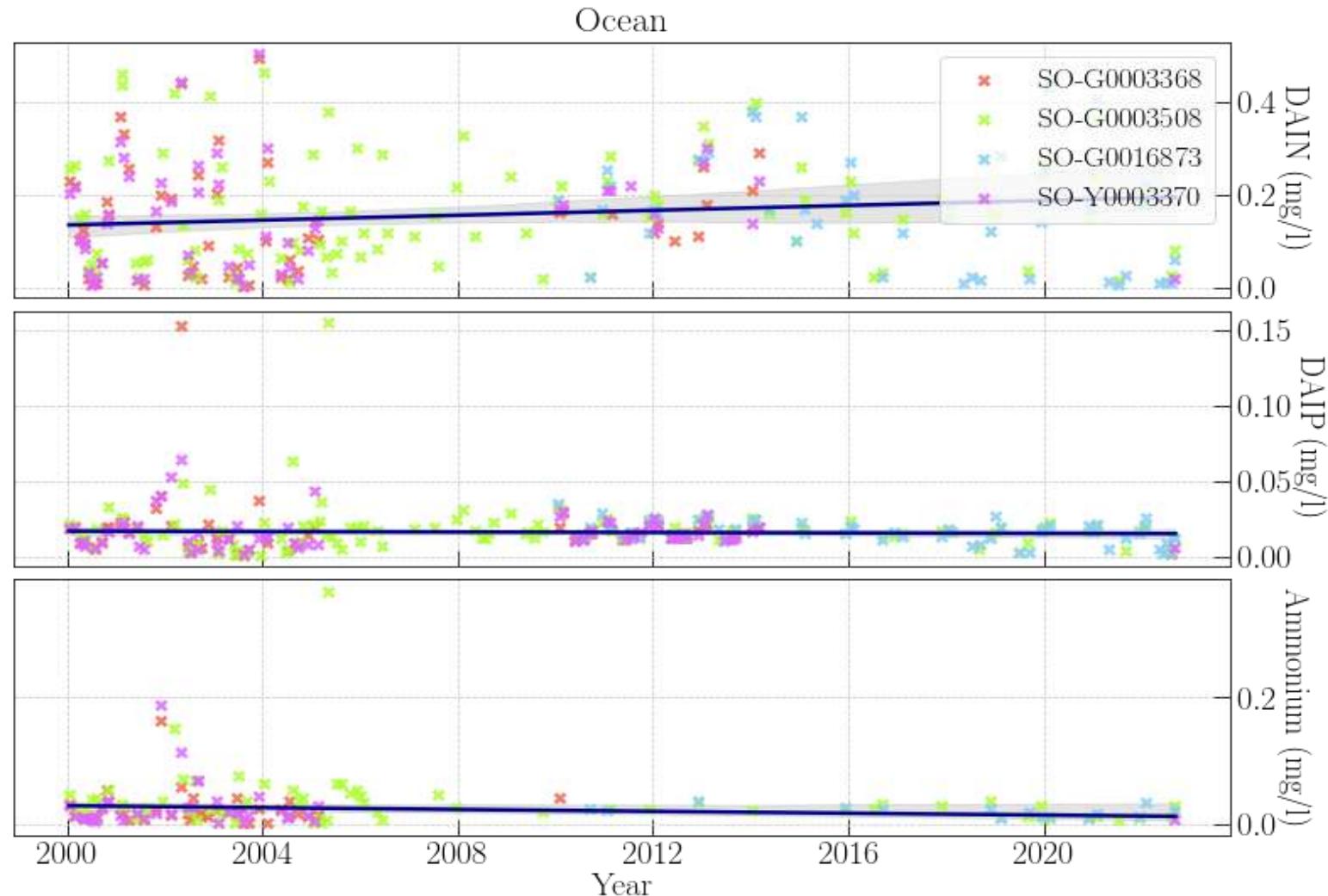


Fig. 4: A map of the south west and east of England, with rivers and the sampled locations in the dataset here used divided into the 4 different categories we are focusing in this study.

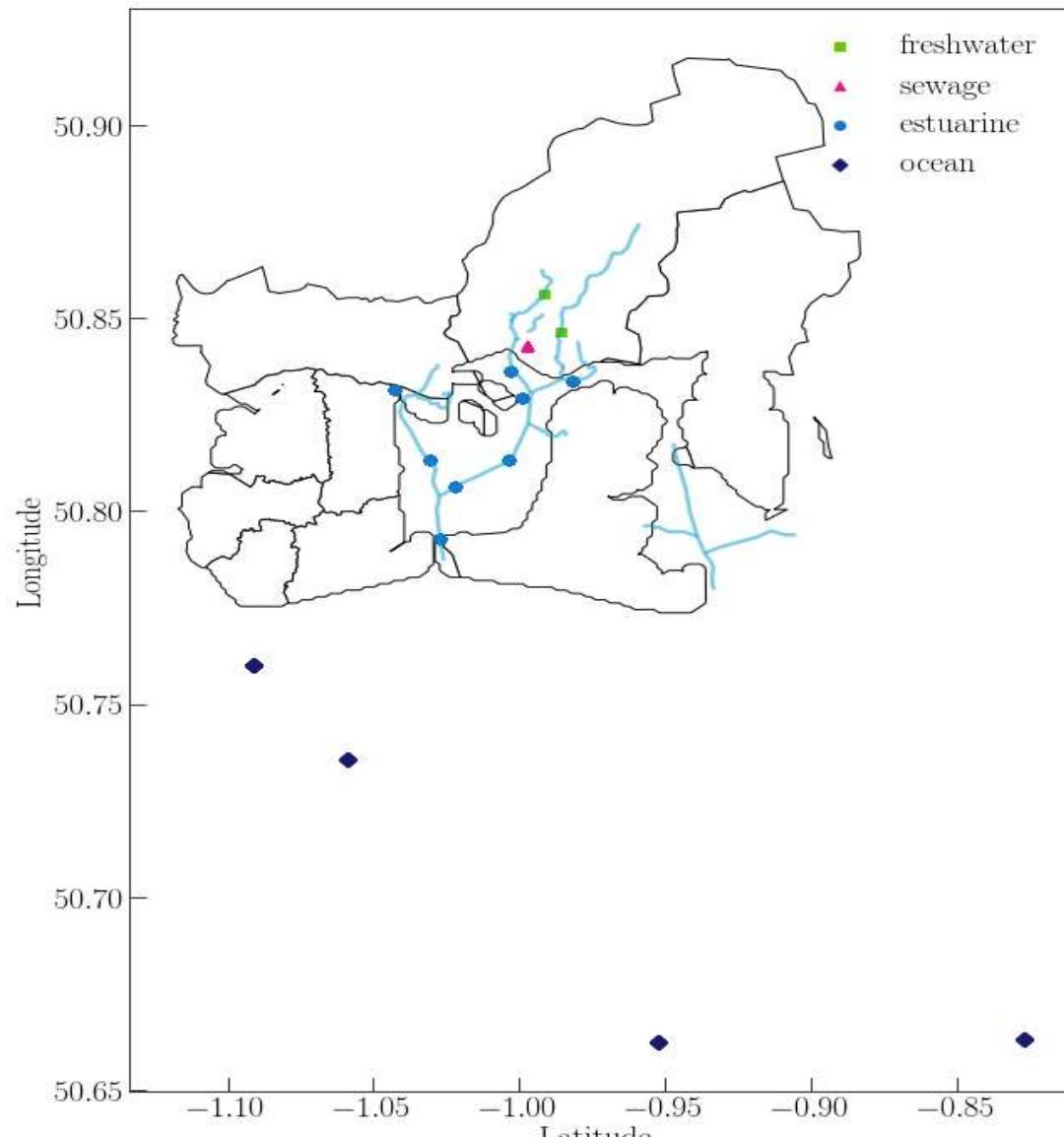
Dataset challenges



Our approach: Langstone Harbour



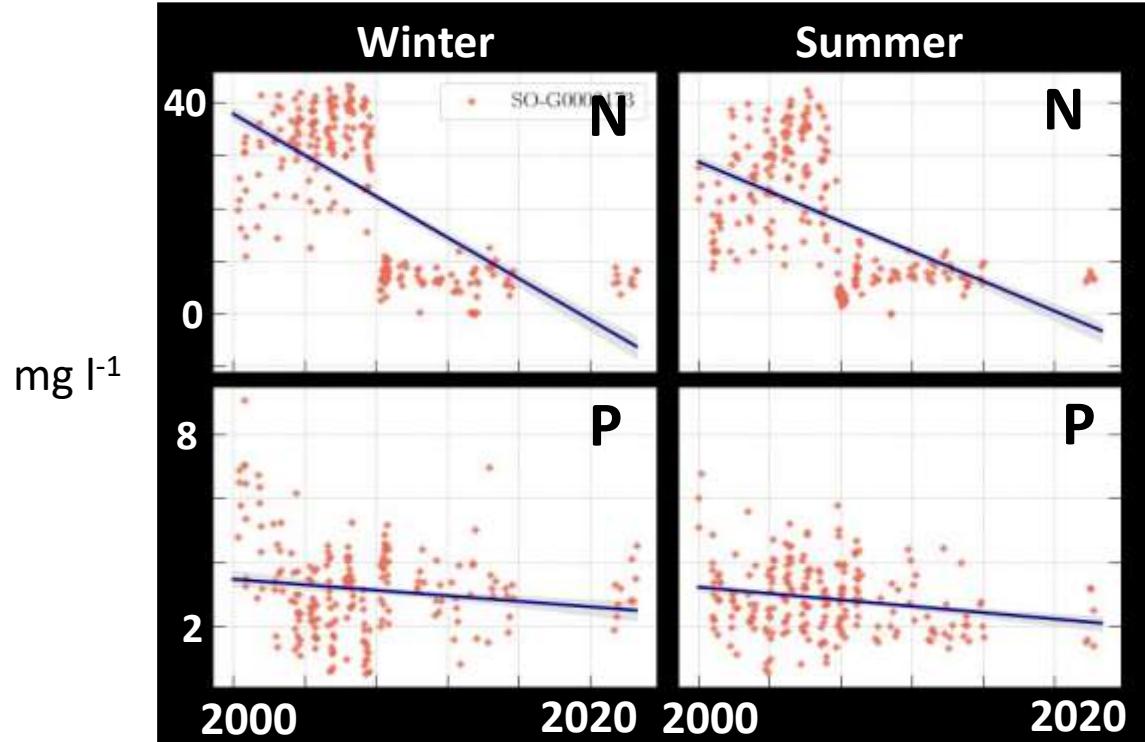
- Using Python script, we quality controlled relevant data
- Categorised sites
- Extracted DAIN/NO₃ and DAIP/PO₄



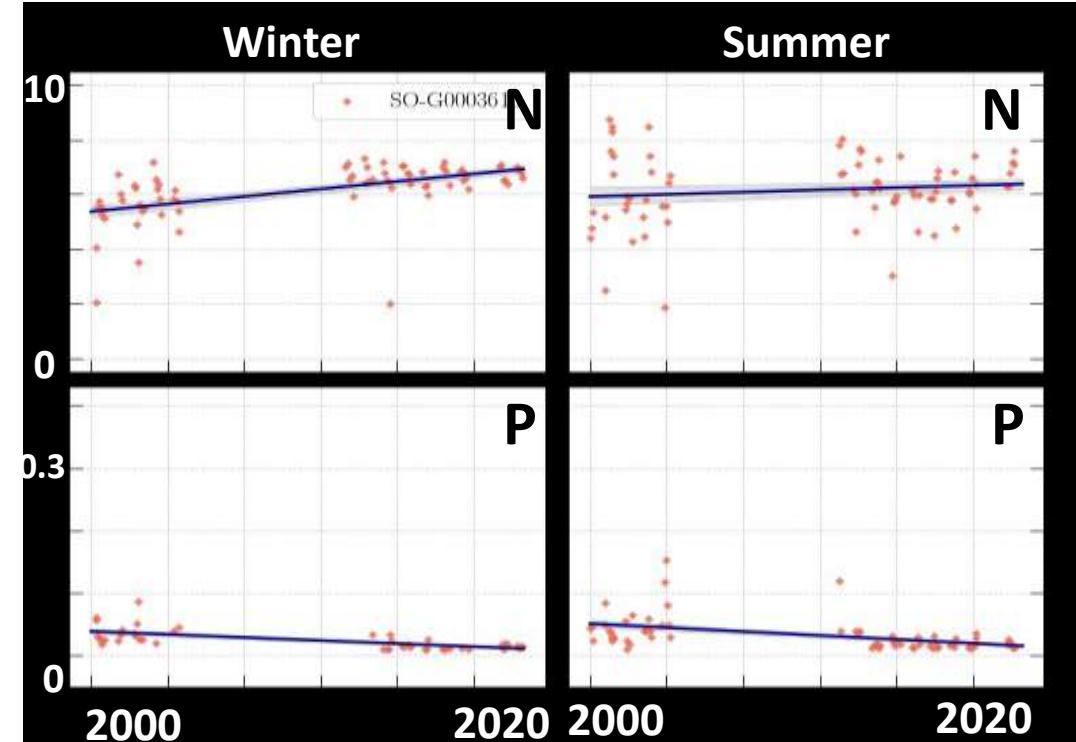
Preliminary results



Sewage



Freshwater



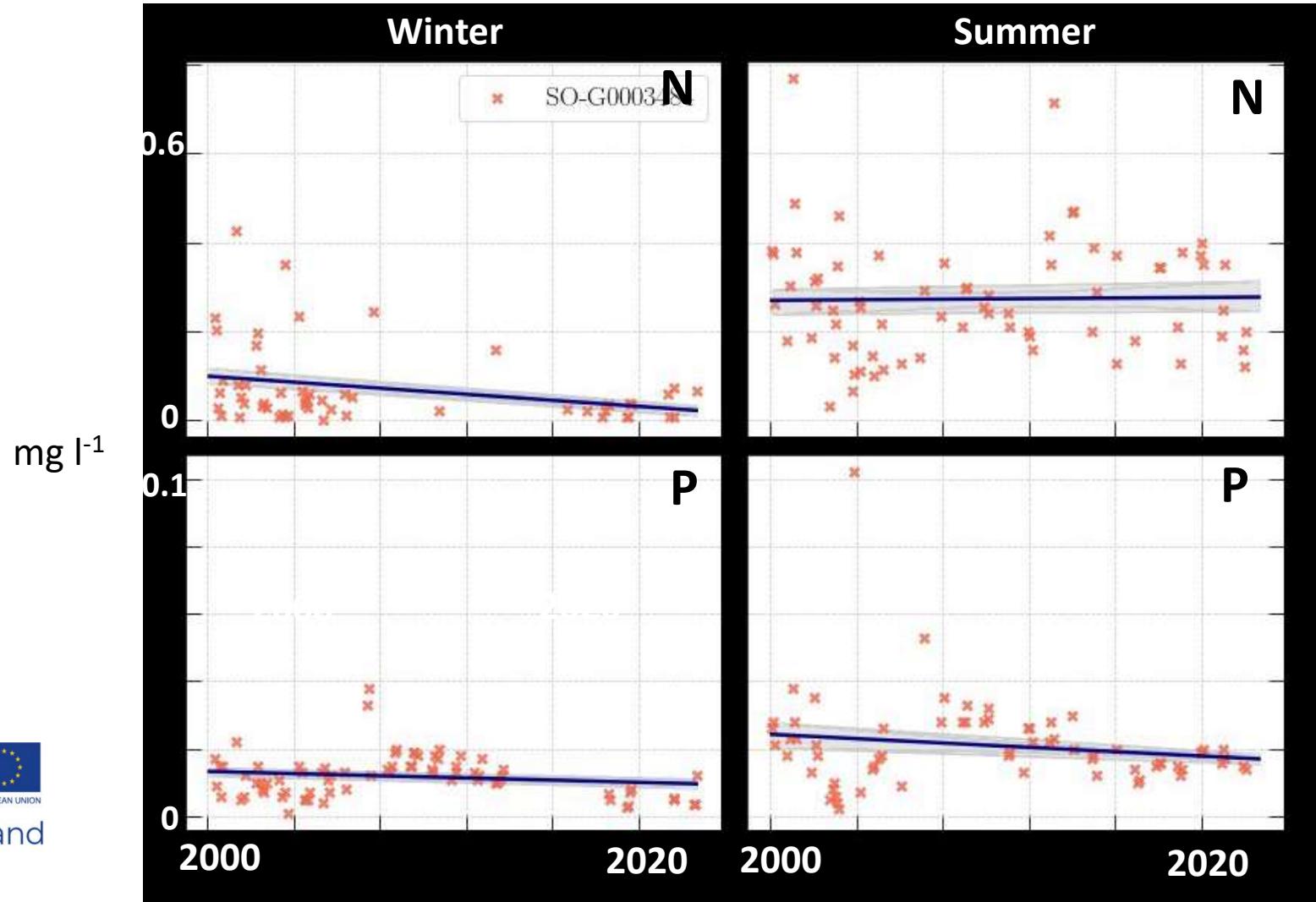
Preliminary results



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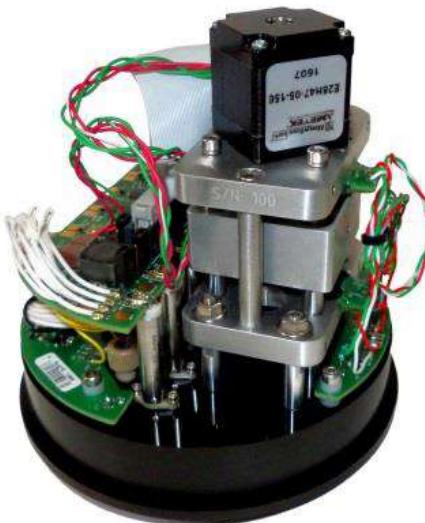
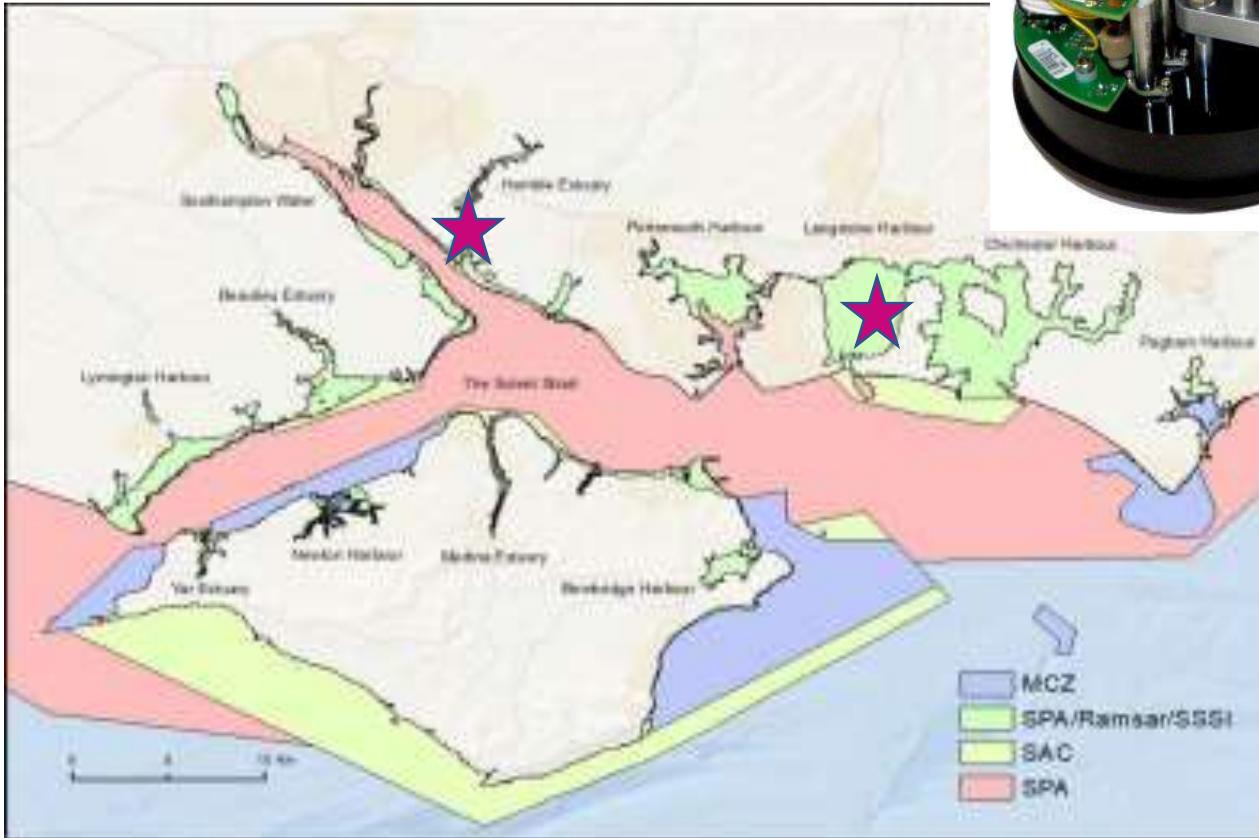


Estuarine

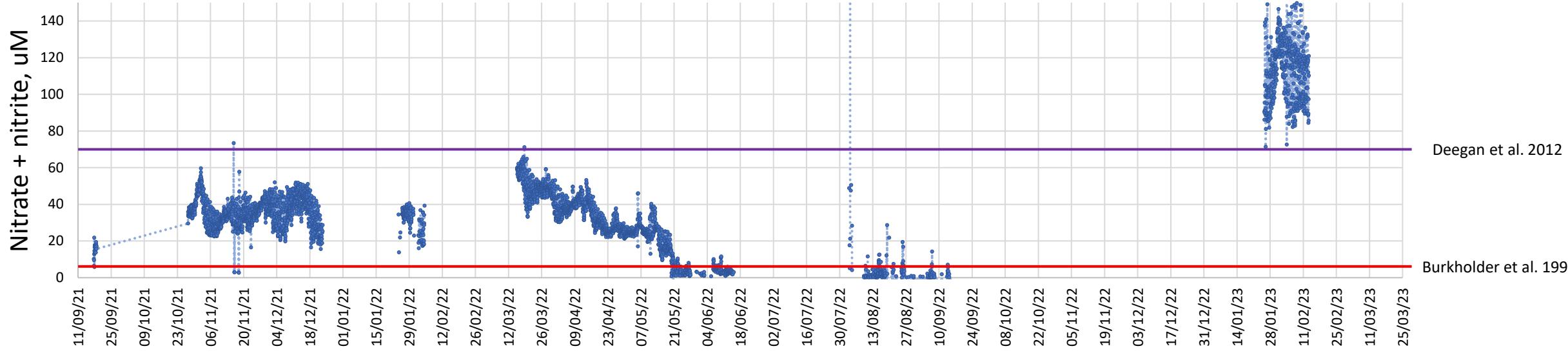


RaNTrans NO₃ sondes

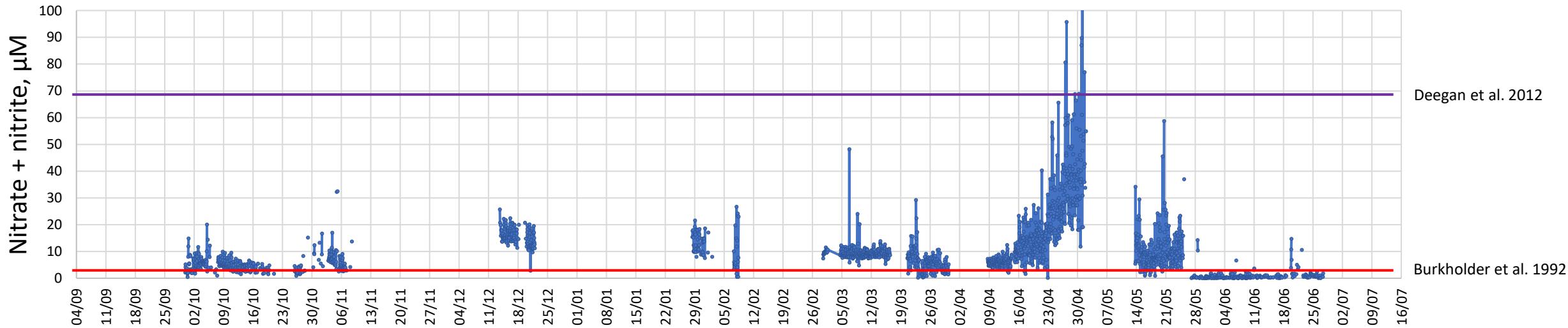
- Four locations (Langstone, Hamble, Poole and Trieux)



Hamble estuary



Langstone Harbour



Next steps

- Complete Langstone Harbour
- Incorporate turbidity, Chlorophyll A
- What we would like to do:
 - Extend for the Solent catchments
 - Assess habitat thresholds
 - Inform restoration selection
 - Confirm if '*recovery from eutrophication is well underway*'

