

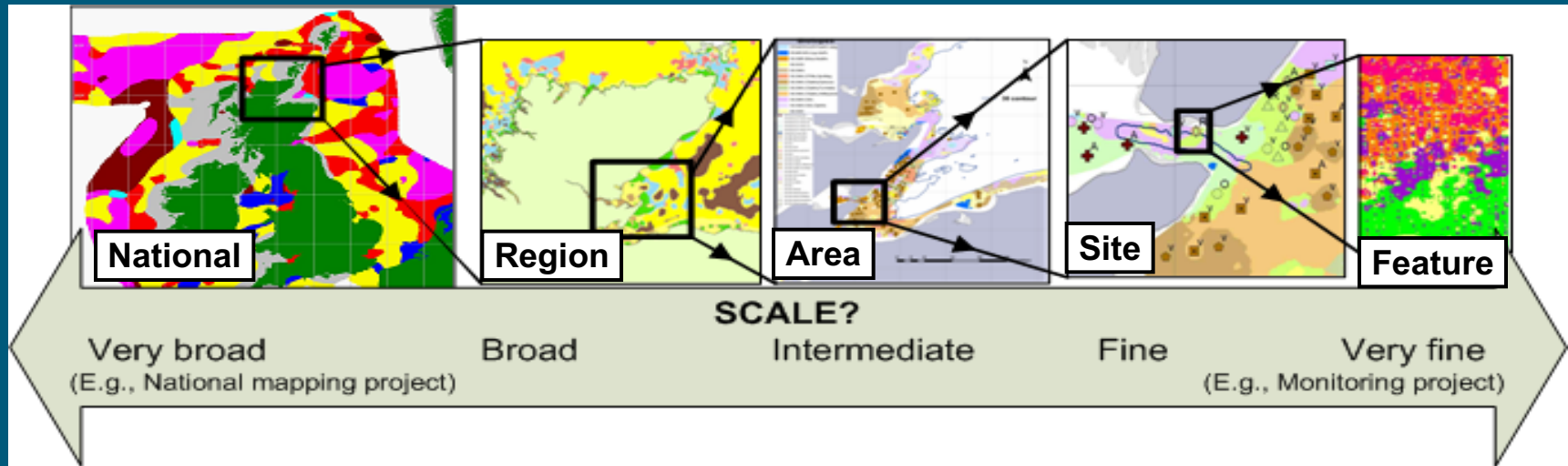
Use of PSA data in biological studies



Roger Coggan

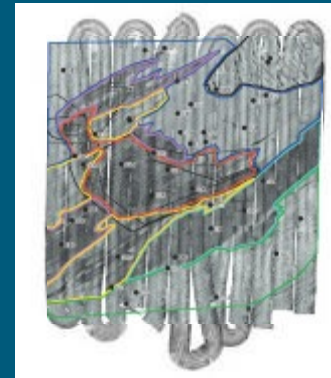
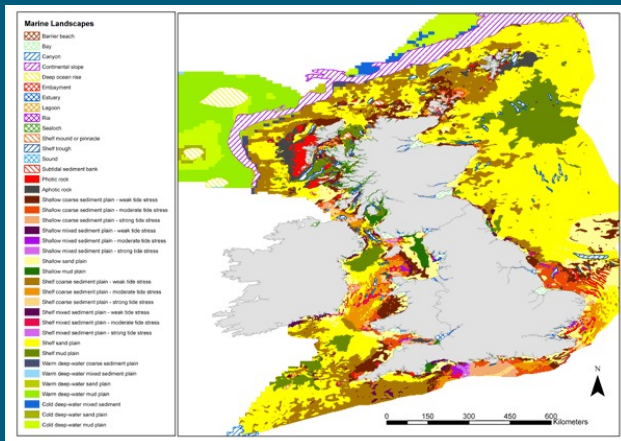
Marine Habitats & Mapping Team
Environment & Ecosystems Division

How do you want to use the PSA data?



Predictive mapping:
Modelling distribution

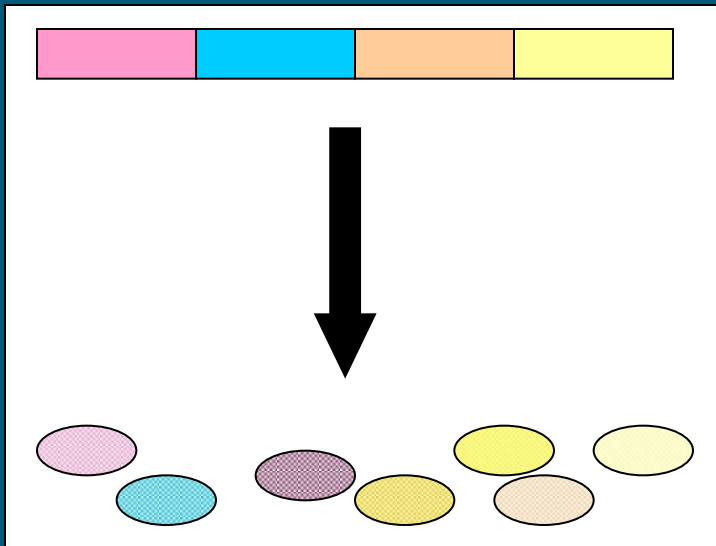
Direct mapping:
Plotting observations



How do you want to use the PSA data?

What are you trying to achieve?

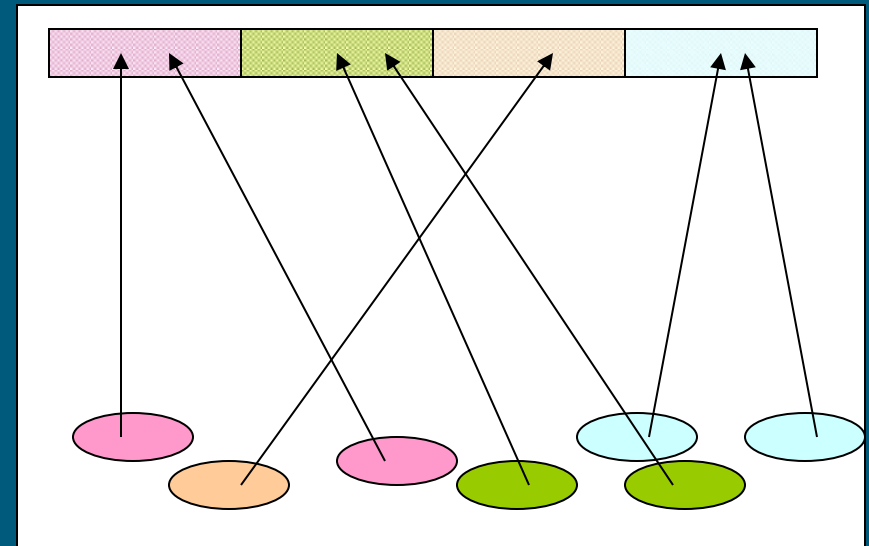
Top-down:
Imposing existing classification
scheme on observation data



Bottom up:
Analyse the data, use associations
to 'create' classes

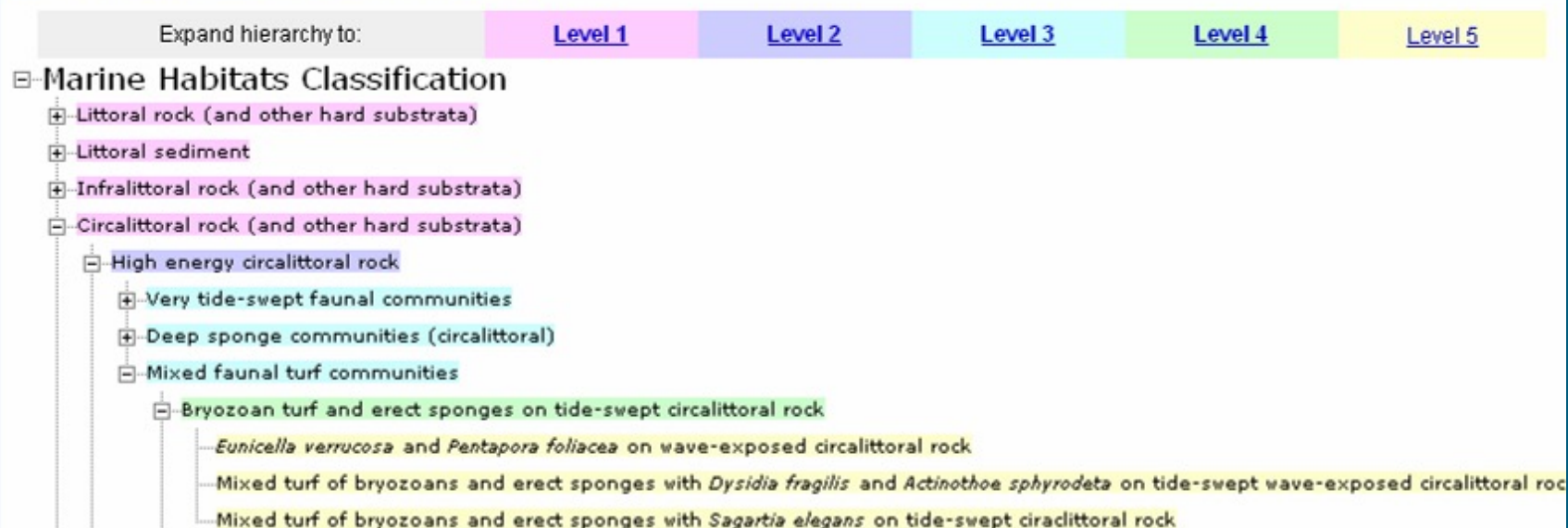
scheme

sample
data



Hierarchical Habitat Classification


Marine Habitat Classification Hierarchy



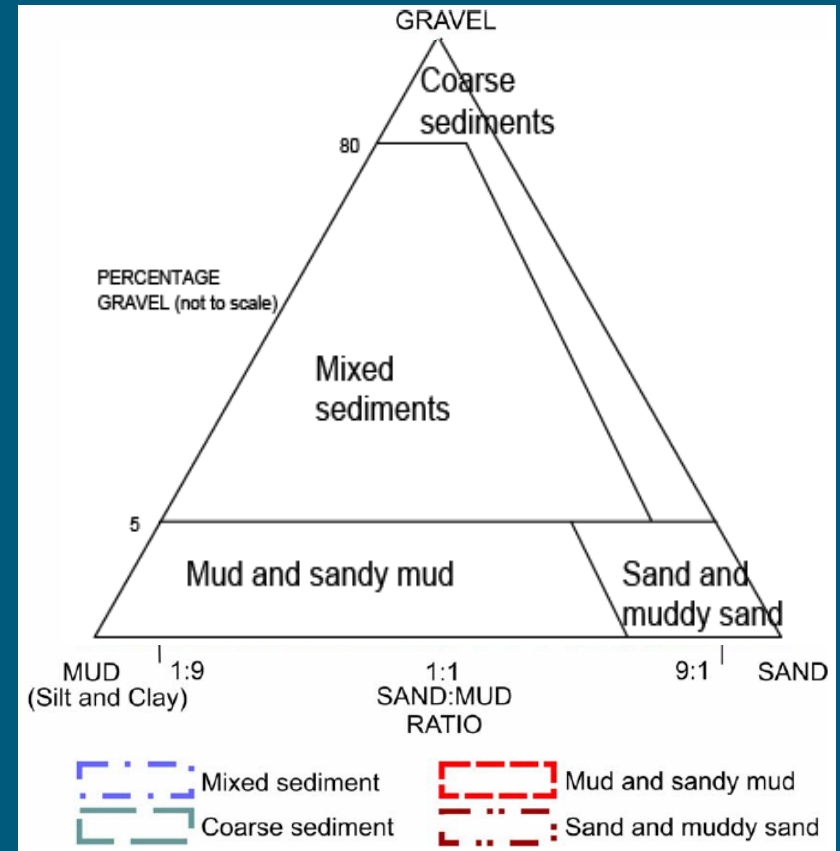
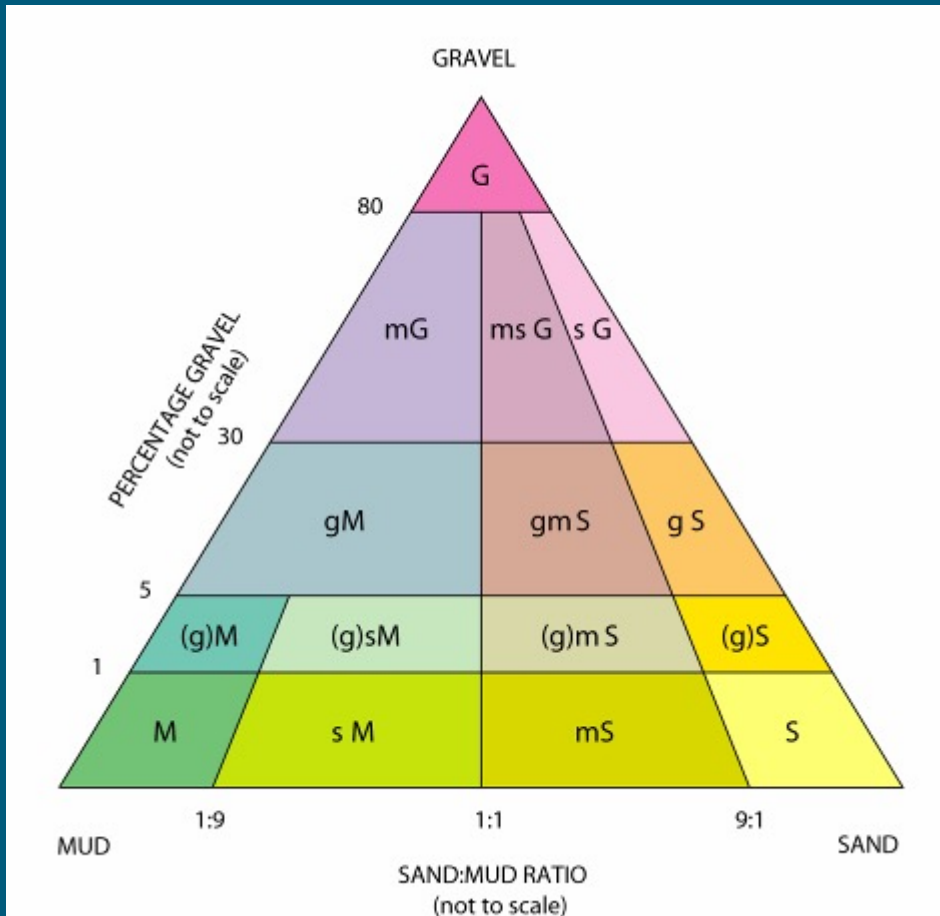
Variables:

- Level 1 - - - - - Depth & Substrate
- Level 2 - - - - - Energy / exposure
- Level 3 - - - - - Life form
- Level 4 - - - Species

PSA – what resolution is fit-for-your purpose?

SUBSTRATUM		ROCK				SEDIMENT				
		High energy rock	Moderate energy rock	Low energy rock	Features on rock	Coarse sediment	Sand	Mud	Mixed sediment	Macrophyte-dominated sediment
LITTORAL										
SUBLITTORAL [S]		Sublittoral coarse sediment [SCS]	Sublittoral sand [SSa]	Sublittoral mud [SMu]	Sublittoral mixed sediment [SMx]	Sublittoral macrophyte-dominated sediment [SMp]	Sublittoral biogenic reefs [SBR]			
		 4 classes								

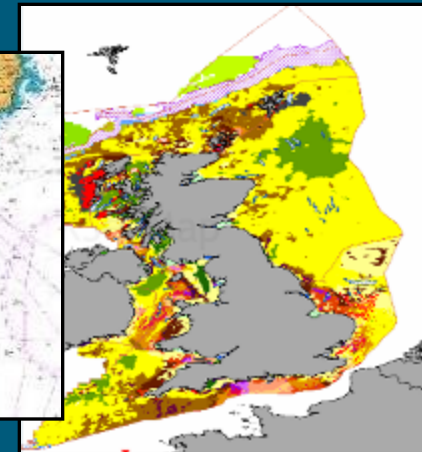
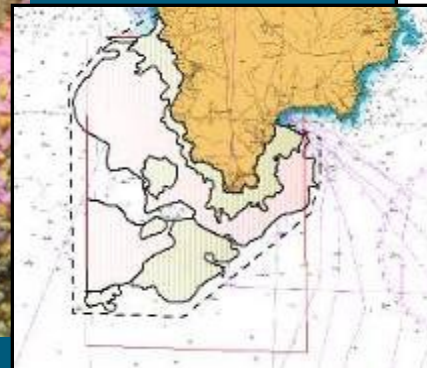
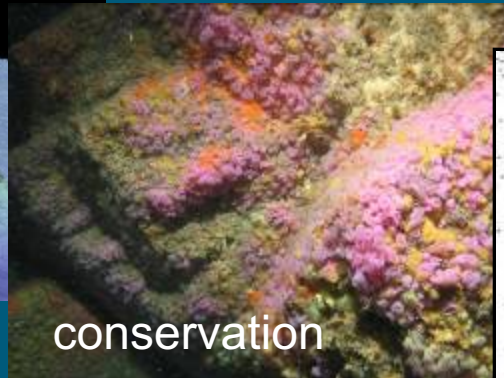
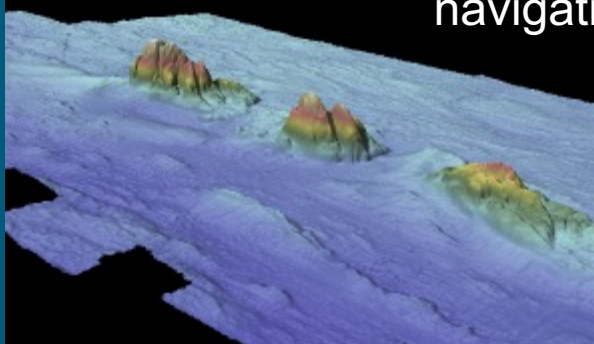
PSA – what resolution is fit-for-your purpose?

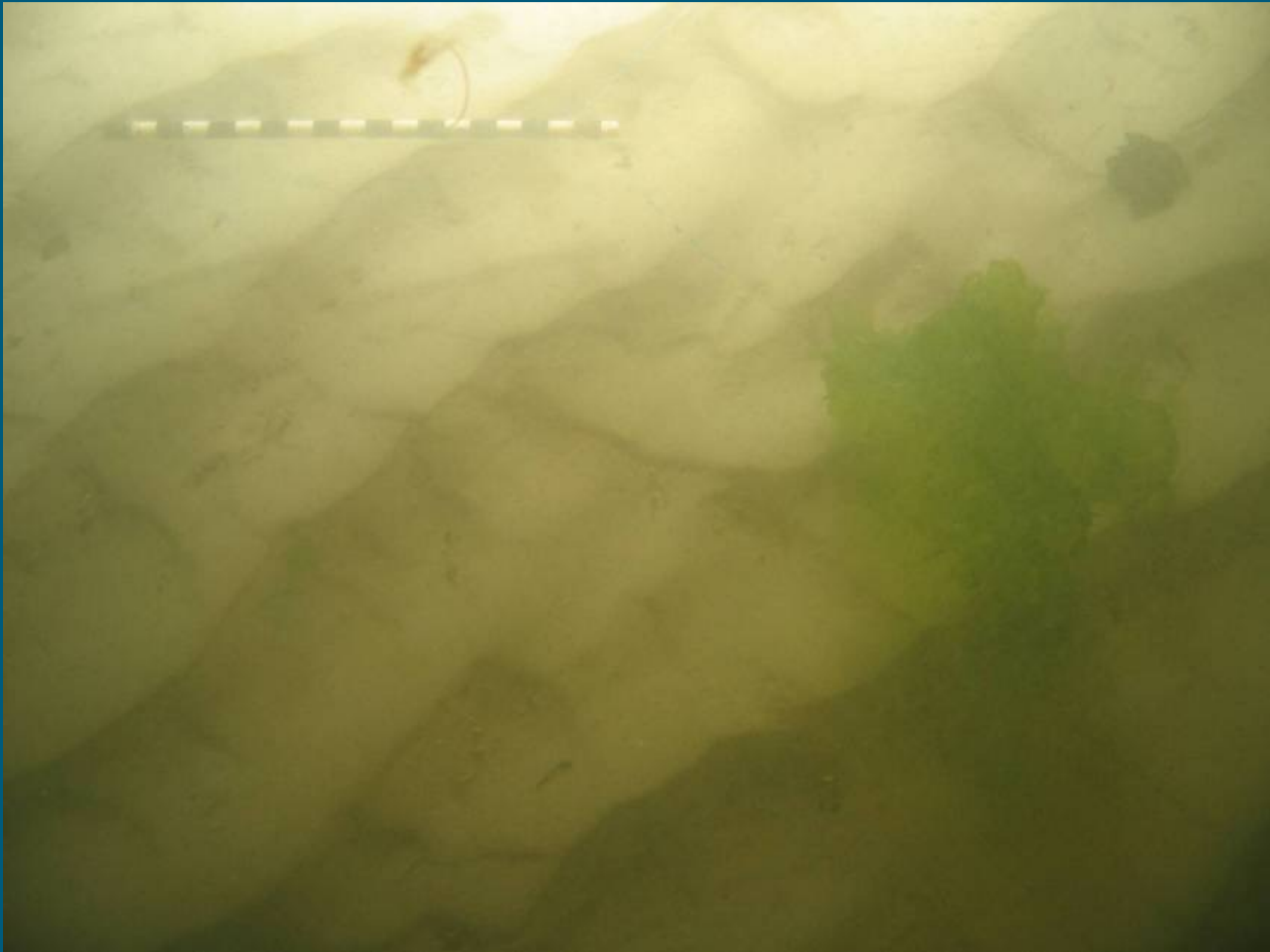


Seabed usage



navigation



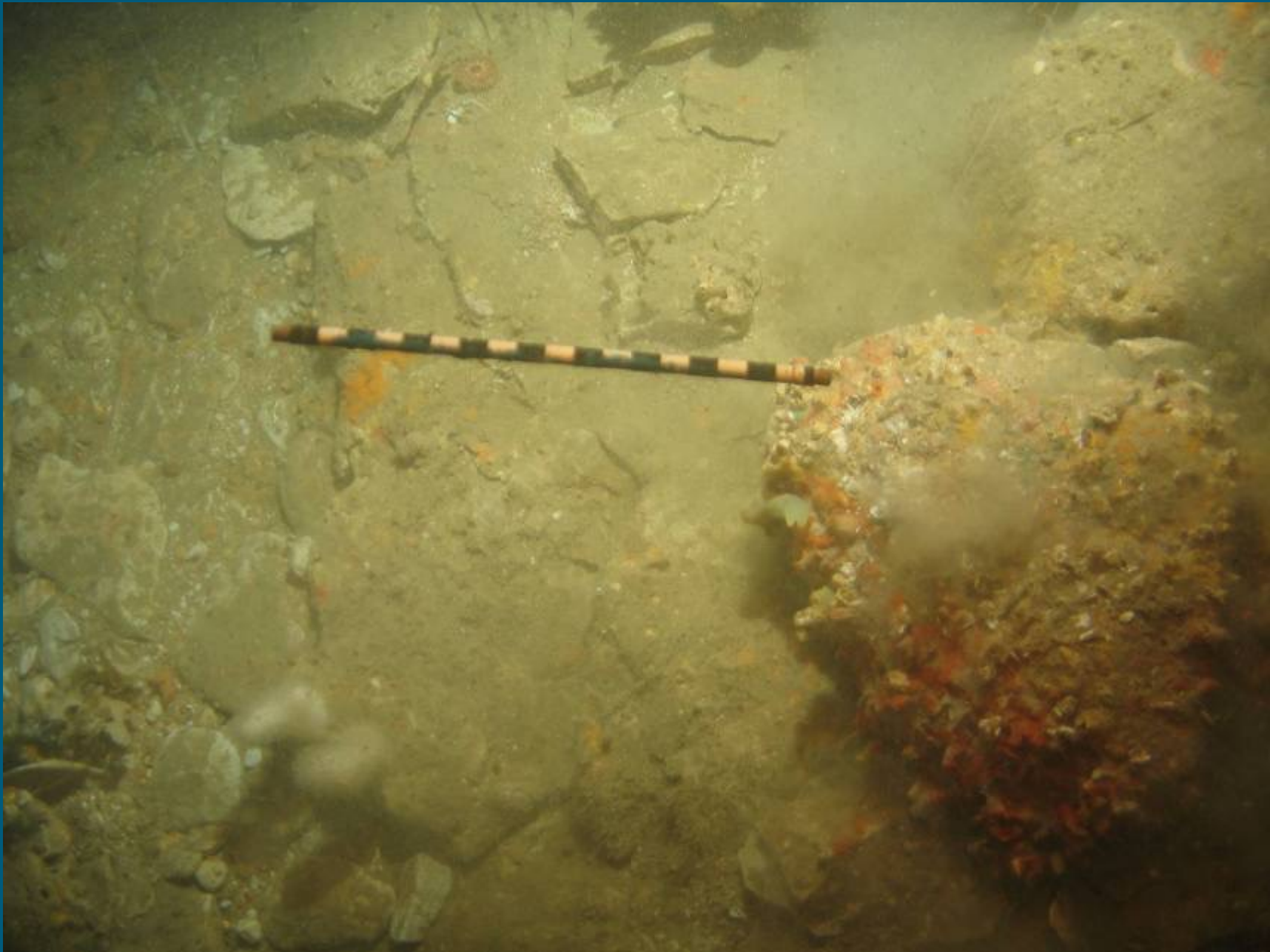


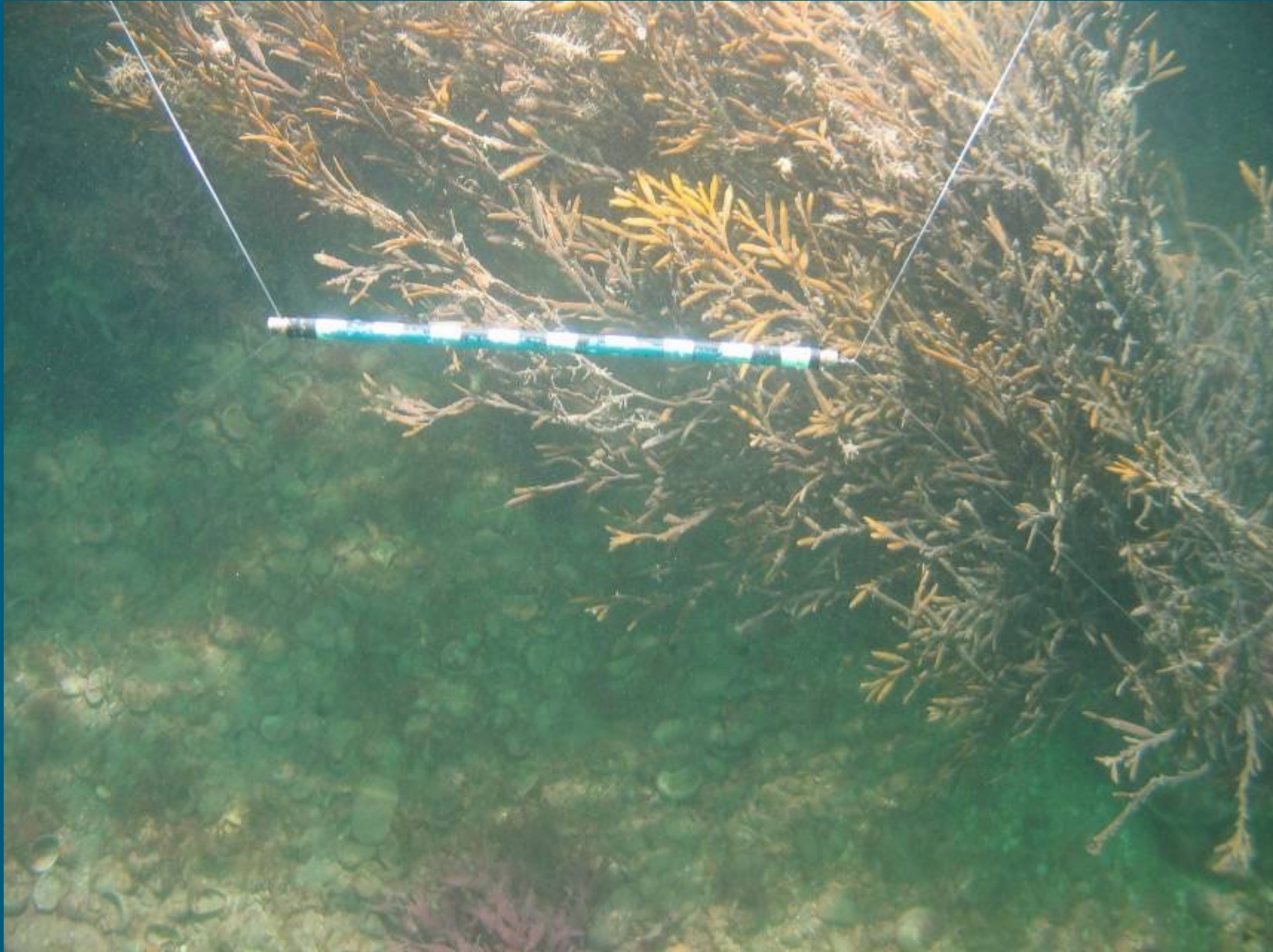












Cetas

Hamon Grab – is it a suitable sampler for PSA?





