

EFINE a PURPOSE of the	e classification & typol	ogy
To inform: •decision-making, management and planning	Project: purpose and principles	Purpose for this typology
	Define level / purpose: Benthic typology for Queensland (multiple levels) -	Seascape scale benthic typology for Great Sandy Marine Park
	Types consider and make provision for temporal variability	Types consider and make provision for temporal variability
for •Great Sandy Marine Park and for	Types relevant to management needs and species/ecosystems	Types relevant to management needs and species/ecosystems
	Types provide representation of biological diversity/variation	Types provide representation of biological diversity/variation
 the Great Sandy Strait Ramsar area 	Higher levels of scale inform lower levels. e.g. habitats stratified by seascapes	Demonstrate Seascape scale considering implications for other levels of classification/typing.
	Types selected are practical for mapping	Types selected are practical for mapping

3 Expert panel workshops	PROJECT TEAM EXPERT PANELS
 Classification: select attributes & devise draft typology Typology & mapping 	Compile attribute datasets Select relevant attributes
Review & endorse the final mapping Panel: Scientists, managers, stakeholders	Attributes & Devise TYPOLOGY rules & hierarchy (order of types)
 NPSR/QPWS Marine Parks EHP Qld Wetland Program CSIRO DAF BMRG JCU (seagrass) USC (coral reef / seagrass / mangrove connectivity) UQ (HB corals, remote sensing) 	MAP the habitat types based on RULES & hierarchy -modify hierarchy -address attribute gaps

8 ATTRIBUTES FEATURE DATASETS arranged in hierarchy		INUNDTN inundation (tidal)
Attributes are biophysical factors of habitats	25	SMB_CMP structural macrobenthos composition
The panel chose 8 attributes from those available in the Classification		없 CONSOL consolidation (rockiness for ecosystem attachment)
Based on the hierarchy the panel created a		SED_TEX sediment texture
DECISION TREE of ECOSYSTEM TYPES		BDEPTH benthic depth
	<u> </u>	図 NRG_MAG energy magnitude (wave)
		☑ T_MORPH terrain morphology
		SUB_CMP substrate composition

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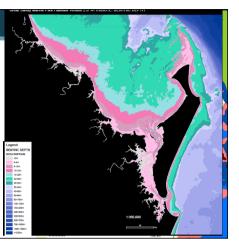
DEPTH & MORPHOLOGY

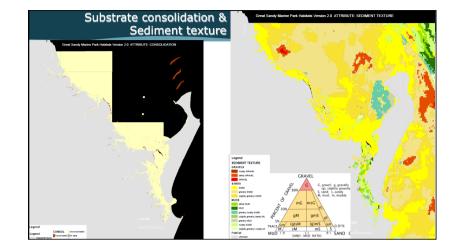
- Based on Beaman GBR 100 JCU
- Depth classes available in Attribute Classification - Seascape

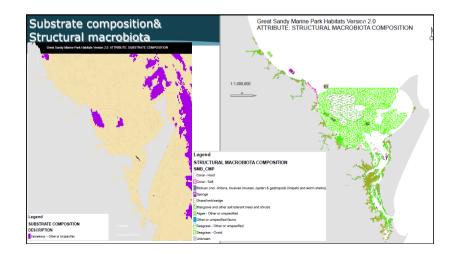
Reclassified in typology into:

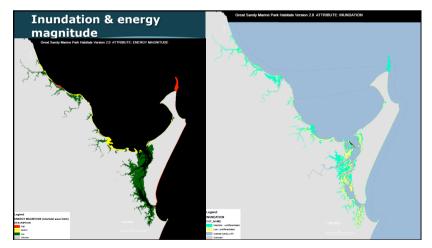
- Shallow <15m (pinks)
- Deep>15m (greens)
- Very deep >35m (blues)

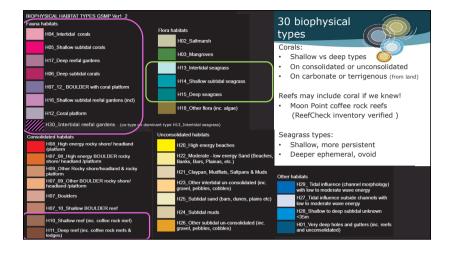
Informs Morphology (peaks, holes, planes, channels, ridges)

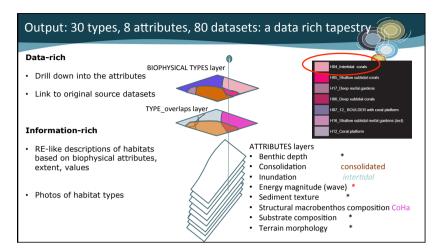


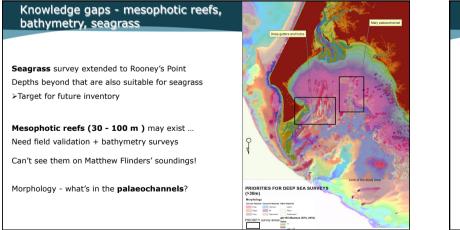












OUTCOMES AND FUTURE DIRECTIONS

- A baseline map of 30 biophysical habitats Version 2.0 in CQ project
- Second chance for inventory and classification feedback step to inform future mapping

Central Queensland project (DAF1498CQA-2)

- Deliver Queensland Intertidal and Subtidal Classification System
- Upgrade DEM to 30m (Beaman JCU)
- · Classify and map habitats Double Island Point to Fitzroy: with naturalness qualifiers
- Aquatic Conservation Assessment : attribute biodiversity values CQ (not Wide Bay / Great Sandy)

SEQ ...? KNOWLEDGE GAP south from Double Island Point

GBR nearshore and coastline ...?