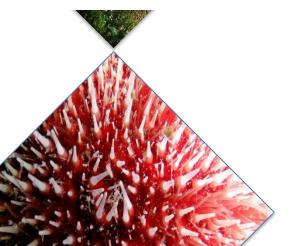


## THE BIG PICTURE II

Benthie Imagery Workshop 2021









**Epifaunal Identification Protocol** 

Jessica Taylor JNCC





## **Purpose and Objectives**

 Update all 800 taxa within the EIP to current taxonomic levels

 Assign taxonomic identification recommendations for different image and video quality levels for each species

Reassess image quality levels for consideration in the EIP work



## **Image Quality**

- Revision of the NMBAQC Image/Video Quality guidelines to increase specificity and clarity.
- Change in NMBAQC categories from;
  - Excellent
  - Good CHANGED
  - PoorTO
  - Very Poor
  - Zero

- Excellent
- Satisfactory
- Poor
- Very Poor
- Zero

Not included in EIP



### **Species Identification Workshops**

6 x 3 hour workshops on different taxa groups

 Members of the BIG PICTURE group joined to assess the correct identification level for the imagery quality



## **The EIP Process**

- For each species the following were discussed;
  - CATAMI Class
  - Video Quality
    - Excellent
    - Satisfactory
    - Poor
  - Stills Quality
    - Excellent
    - Satisfactory
    - Poor





# Taxa Groups that have been reviewed

- Sponges
- Bryozoans
- Cnidarians
- Molluscs
- Arthropods

- Echinoderms
- Chordata
- Annelids
- A small number of Platyhelminthes



## **Epifaunal Identification Protocol**

										<u> </u>	
WoRMS Taxonomic Identification				S ientific Name W oRMS (2020)	CATAMI		Image Quality			Video Qual	
Class	Order	Family	ScientificName		Corresponding Morphological Class	Sponge Morphological Classification (G.K	Poor Quality Recommended ID	Satisfactory Quality Recommended ID	Excellent Quality Recommended ID	Poor Video Recommended ID	Satisfactory Video Recommended I
Demospongiae	Axinellida	Axinellidae	Axinella damicornis	Axir alla damicornis	Sponges> Erect forms > branching	Category 2: Arborescent	Sponges> Erect forms > branching	Sponges> Erect forms > branching	Axinella damicornis		Sponges> Erect forms > branchin
Demospongiae	Axinellida	Axinellidae	Axinella dissimilis	Axir ella dissimilis	Sponges> Erect forms > branching	Category 2: Arborescent	Sponges> Erect forms > branching	Sponges> Erect forms > branching	Axinella dissimilis	Sponges> Erect forms > branching	Sponges> Erect forms > branchin
Demospongiae	Axinellida	Axinellidae	Axinella infundibuliformis	Axir əlla infu dibuliformis	Sponges> Cup-likes> Cups>Cup / goblet	Category 4: Flabellate	Sponges> Cup-likes> Cups>Cup / goblet	Axinella infundibuliformis	Axinella infundibuliformis	Sponges> Cup- likes> Cups>Cup / goblet	Axinella infundibuliformis
Demospongiae	Suberitida	Halichondriida e	Ciocalypta penicillus	Ciocalypta penicillus	Sponges> Cushion	Category 3: Massiv Spherical and Papillate	, Sponges> Cushion	Ciocalypta penicillus	Ciocalypta penicillus	Sponges> Cushion	Sponges> Cushi
Calcarea	Clathrinida	Clathrinidae	Clathrina coriacea	Clat irina coriacea	Sponges> Crusts> Encrusting		Faunal Crust	Sponges> Crusts> Encrusting	Clathrina coriacea	Faunal Crust	Faunal Crust
Demospongiae	Clionaida	Clionaidae	Cliona celata	Clio la celata	Sponges> Massive> Simple	Category 3: Massiv Spherical and Papillate	e, Cliona celata	Cliona celata	Cliona celata	Cliona celata	Cliona celata
Demospongiae	Tetractinellida	Ancorinidae	Dercitus (Dercitus)	Der itus (Dercitus)	Sponges> Crusts>	Category 1:	Dercitus (Dercitus)	Dercitus)	Dercitus (Dercitus)	Dercitus (Dercitus)	Dercitus (Dercitu



### **EIP Tools**

 EIP Standalone tool – for use on ID checking whilst completing annotations

#### EIP Checker (stand-alone tool)

Please enter an aphia ID or scientific name and specify the image quality level

Aphia ID	Scientific Name	Excellent	~
Submit			



### **Future of the EIP**

- Integration of more deep-sea fauna within the species list
- Future workshop suggestions;
  - Creation of a UK CATAMI with a primary focus on sponges
- Potential creation of a catalogue of images to sit alongside the EIP for identification aids.







