



Dive into the sea and help us identify marine creatures living on rocky bottoms

Learn more

Study marine biodiversity using an online Citizen Science tool - Marine Creatures

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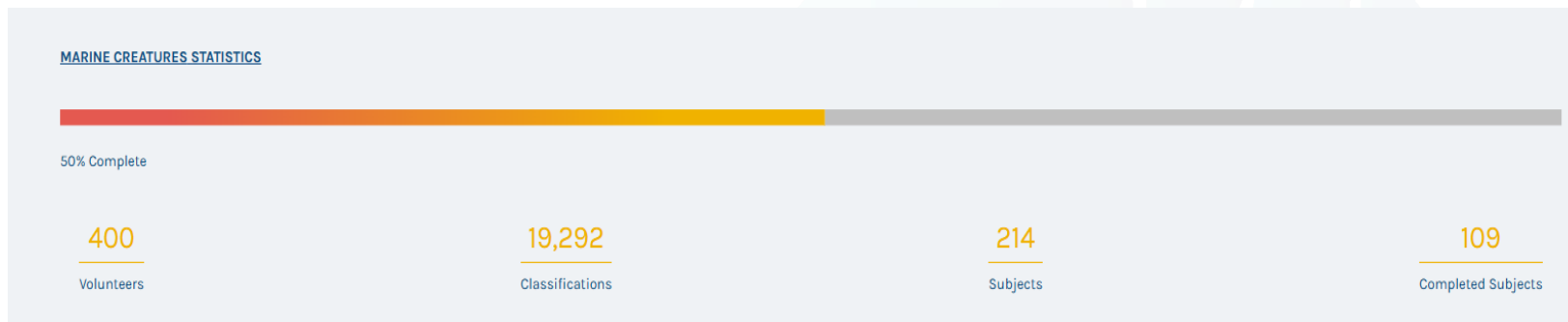
NAUTILOS



Horizon 2020
European Union Funding
for Research & Innovation



- Engage the public in scientific research
- Bring experts and volunteers effectively together
- Create awareness for marine biodiversity
- Train citizens on collecting quality data



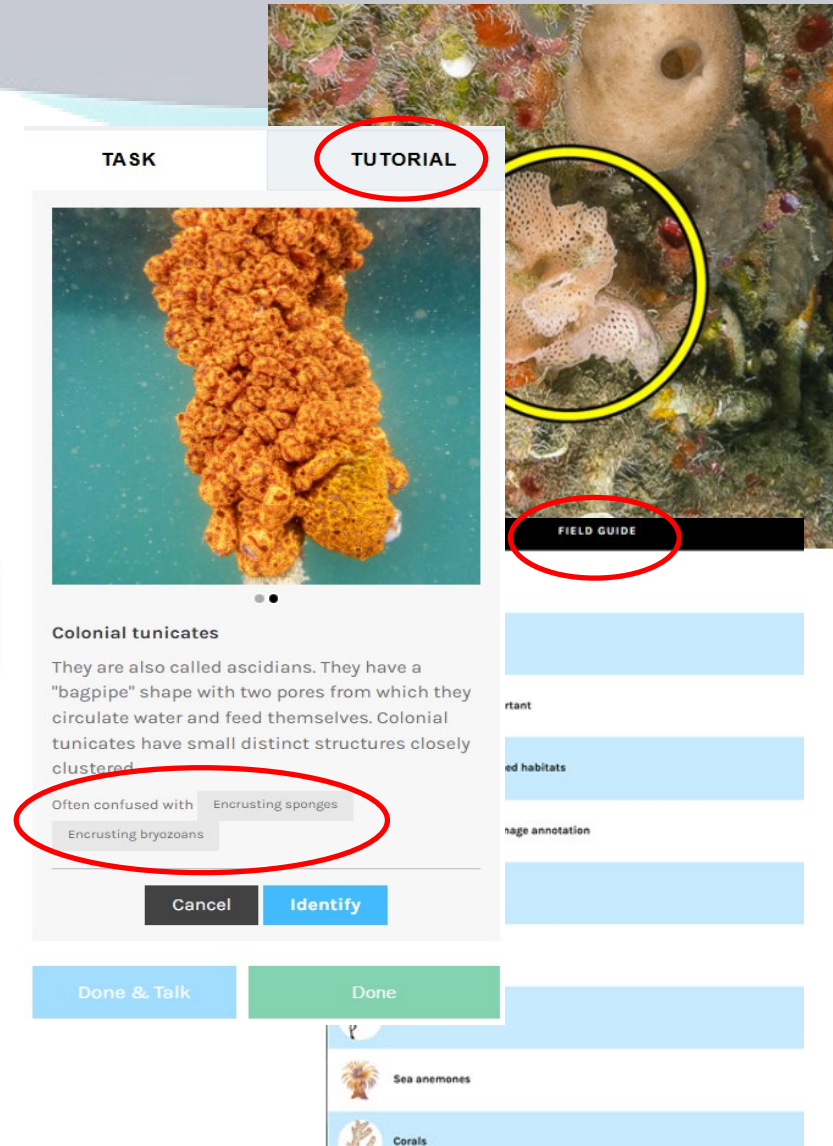
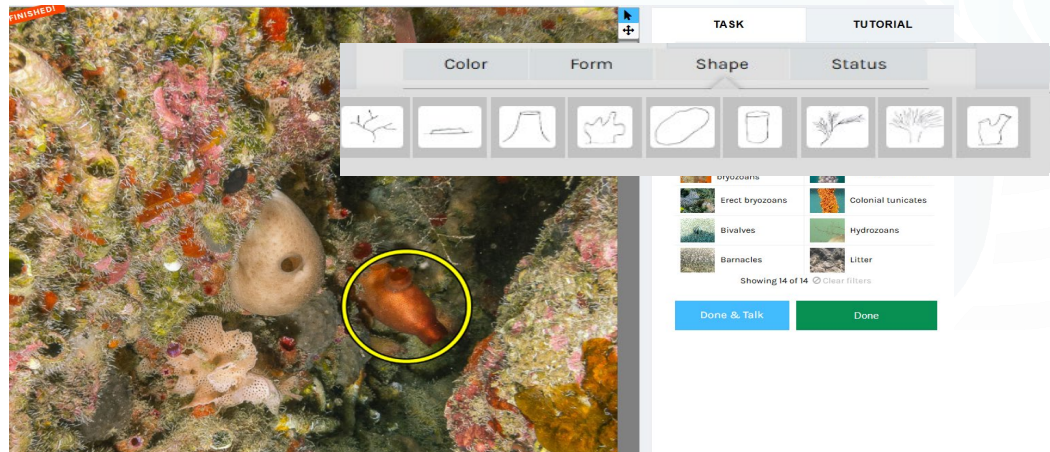
WORDS FROM THE RESEARCHER



"Our aim is to assess the quality and status of the marine benthic biodiversity. Citizen scientists make this possible by helping us annotate underwater images!"

- "Marine Creatures" launched in September 2022 – ongoing
- 1,378 volunteers engaged in the project - 400 registered users
- 19,292 contributions – 8,705 contributions from registered users

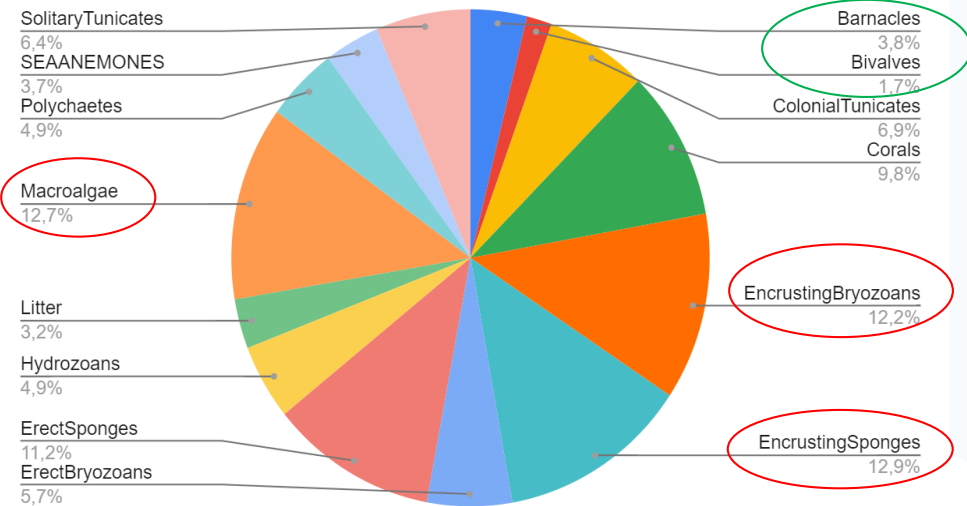
- Identify the sessile benthic organisms on the underwater photos
- Three habitats: ports, natural sea caves and artificial reefs
- Organisms: Macroalgae, Sponges, Hydrozoans, Sea anemones, Corals, Polychaetes, Bivalves, Barnacles, Bryozoans and Tunicates
- Use the field guide and the tutorial to get trained
- Pop-out windows with photos and short description
- Tips for easily confused taxonomic groups
- Filters to narrow down search: colors, forms, shapes and status



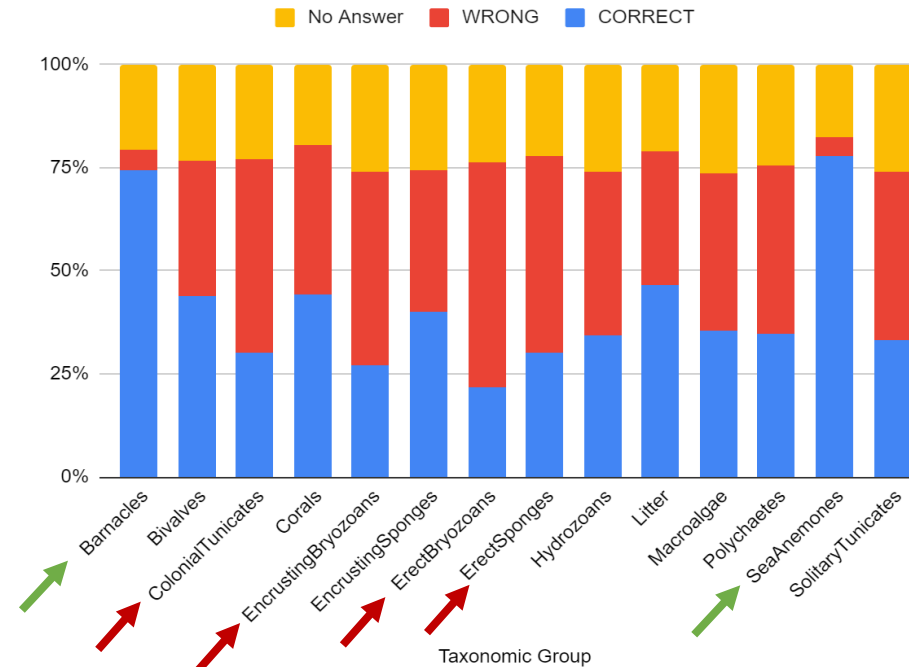
- Data were collected on 6/3/2024 completing a period of 18 months
- How many users? How many classifications? Time devoted?
- Which one is the most time-demanding taxonomic group?
- Which one is the most difficult taxonomic group?

Statistics	
Total Users	1,378 (400 for RU)
Total number of classifications	19,292 (8,705 for RU)
Average number of classifications per user	13,9 (34 for RU)
Median time (<30mins) spent	0:05:27 (0:12:10 for RU)

Median time spent in each taxonomic group



Percentage of Correct, Wrong and not answered per taxonomic group



GOOD SUCCESS RATES

Barnacles
Sea anemones

MANY MISTAKES

Erect bryozoans
Erect sponges
Colonial tunicates
Encrusting bryozoans



Benefits

broader pool of data

large scale research

cost-effective means

time-efficient means

Importance

engagement in research

contribution to discoveries

sense of accomplishment

fostering public trust

Restrictions

non reliable data

low quality data

misunderstanding of the task

volunteers may be biased

Improvements

Field guide

Tutorial

Discussion forum

Support from experts

Thank you for your attention!

Scientific team

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Visit us!

- ✓ Platform created 2009 (15 years)
- ✓ 848,691,668 online classifications
- ✓ 2,789,085 registered users
- ✓ 499 projects

