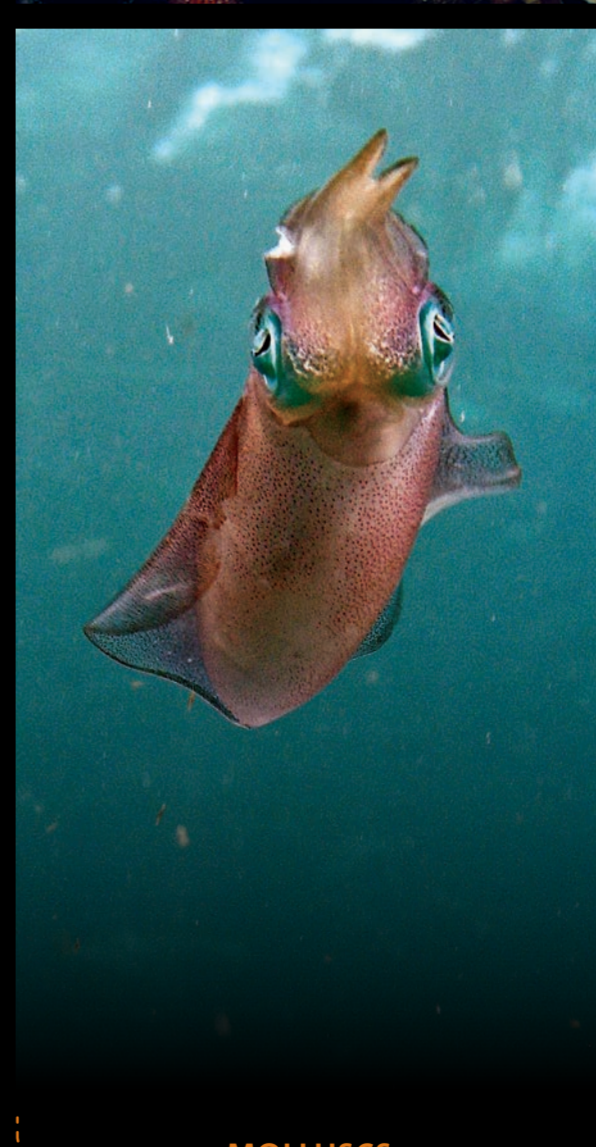


# Putting names to a SEA OF FACES

STANDARDISING THE FLORA AND FAUNA CLASSIFICATION OF AUSTRALIAN MARINE IMAGES



CNIDARIA

MACROALGAE

MOLLUSCS

SPONGES

ECHINODERMS

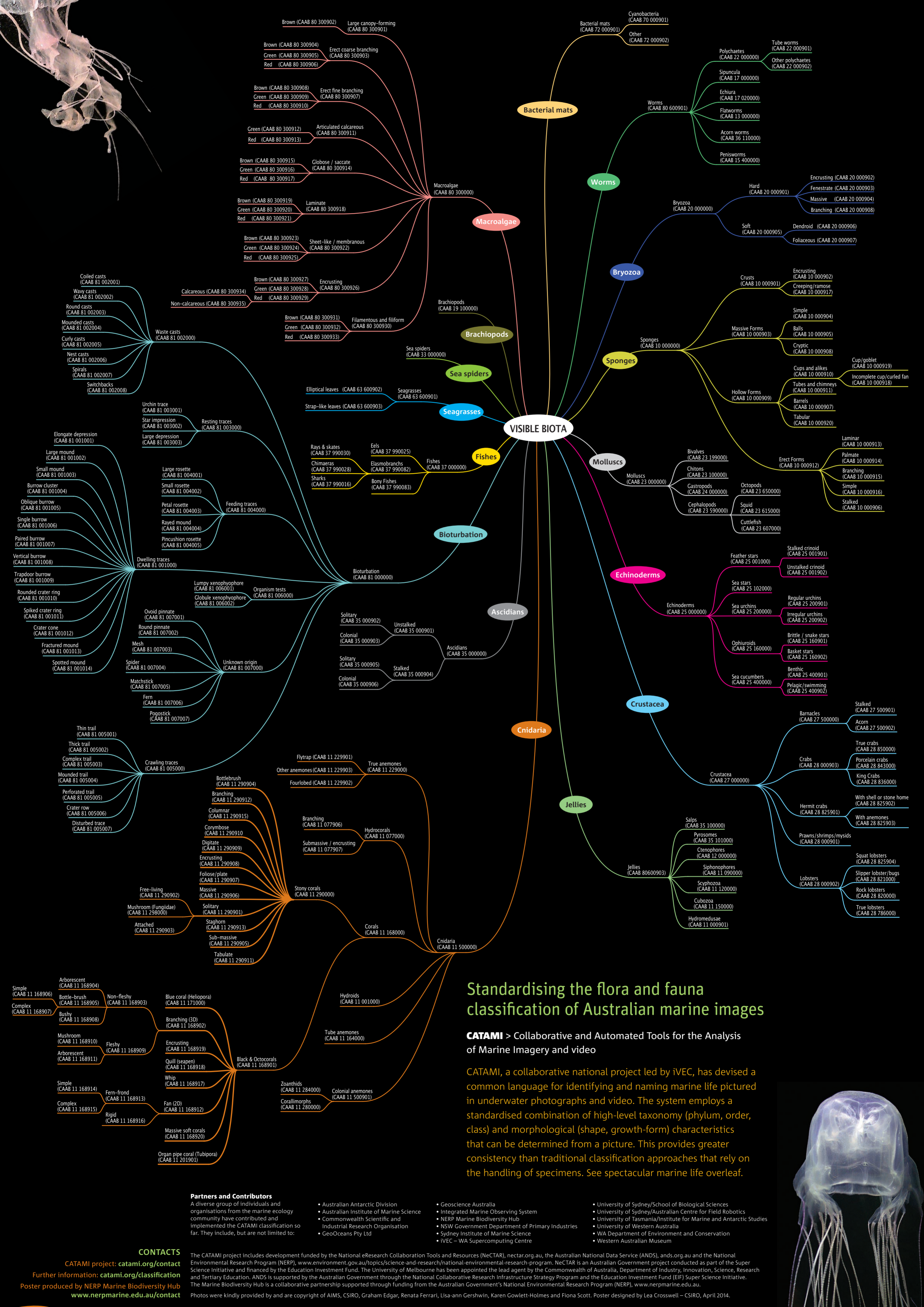
FISHES

CRUSTACEA

Photographs and video provide a safe, non-destructive and efficient way to examine and monitor marine habitats. To be useful on a national scale, however, all the life forms they reveal must be named in a consistent way. A new classification system devised by Australia's CATAMI project provides that common language. See the new system outlined overleaf.



# VISIBLE BIOTA



## Standardising the flora and fauna classification of Australian marine images

**CATAMI** > Collaborative and Automated Tools for the Analysis of Marine Imagery and video

CATAMI, a collaborative national project led by iVEC, has devised a common language for identifying and naming marine life pictured in underwater photographs and video. The system employs a standardised combination of high-level taxonomy (phylum, order, class) and morphological (shape, growth-form) characteristics that can be determined from a picture. This provides greater consistency than traditional classification approaches that rely on the handling of specimens. See spectacular marine life overleaf.



### Partners and Contributors

A diverse group of individuals and organisations from the marine ecology community have contributed and implemented the CATAMI classification so far. They include, but are not limited to:

- Australian Antarctic Division
- Australian Institute of Marine Science
- Commonwealth Scientific and Industrial Research Organisation
- GeoOceans Pty Ltd
- Geoscience Australia
- Integrated Marine Observing System
- NERP Marine Biodiversity Hub
- NSW Government Department of Primary Industries
- Sydney Institute of Marine Science
- iVEC – WA Supercomputing Centre
- University of Sydney/School of Biological Sciences
- University of Sydney/Australian Centre for Field Robotics
- University of Tasmania/Institute for Marine and Antarctic Studies
- University of Western Australia
- WA Department of Environment and Conservation
- Western Australian Museum

### CONTACTS

CATAMI project: [catami.org/contact](http://catami.org/contact)  
 Further information: [catami.org/classification](http://catami.org/classification)  
 Poster produced by NERP Marine Biodiversity Hub  
[www.nerpmarine.edu.au/contact](http://www.nerpmarine.edu.au/contact)

The CATAMI project includes development funded by the National eResearch Collaboration Tools and Resources (NeCTAR), [nectar.org.au](http://nectar.org.au), the Australian National Data Service (ANDS), [ands.org.au](http://ands.org.au) and the National Environmental Research Program (NERP), [www.environment.gov.au/topics/science-and-research/national-environmental-research-program](http://www.environment.gov.au/topics/science-and-research/national-environmental-research-program). NeCTAR is an Australian Government project conducted as part of the Super Science Initiative and financed by the Education Investment Fund. The University of Melbourne has been appointed the lead agent by the Commonwealth of Australia, Department of Industry, Innovation, Science, Research and Tertiary Education. ANDS is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy Program and the Education Investment Fund (EIF) Super Science Initiative. The Marine Biodiversity Hub is a collaborative partnership supported through funding from the Australian Government's National Environmental Research Program (NERP), [www.nerpmarine.edu.au](http://www.nerpmarine.edu.au).

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