

Sponges

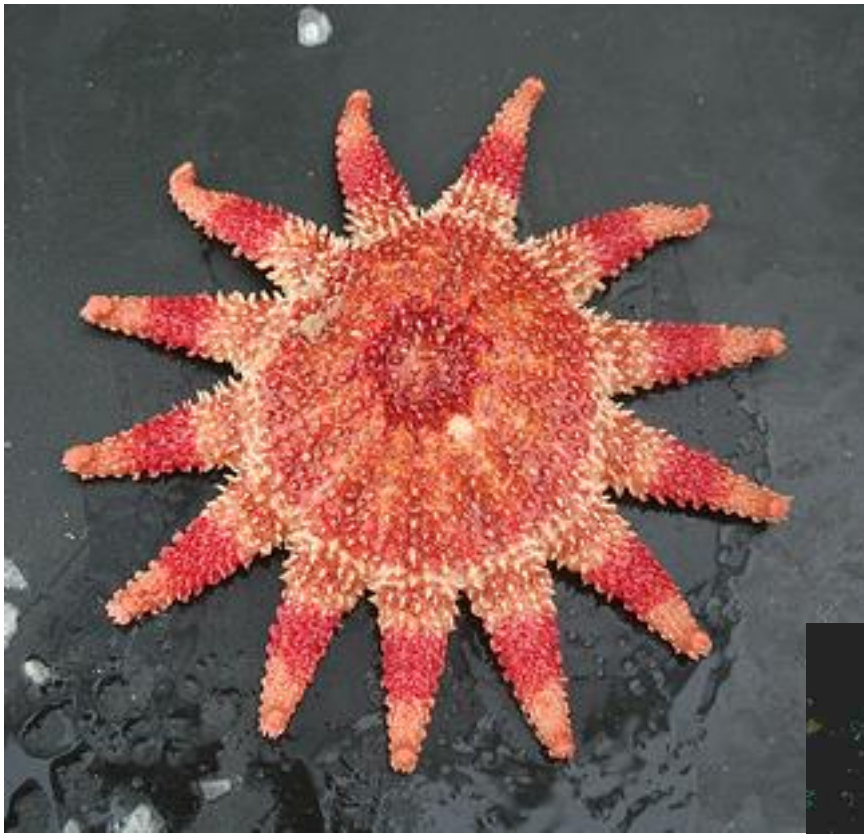


Anemones



Sea Slugs





Sea Stars

Sea urchins



Sea cucumber



Cuttlefish



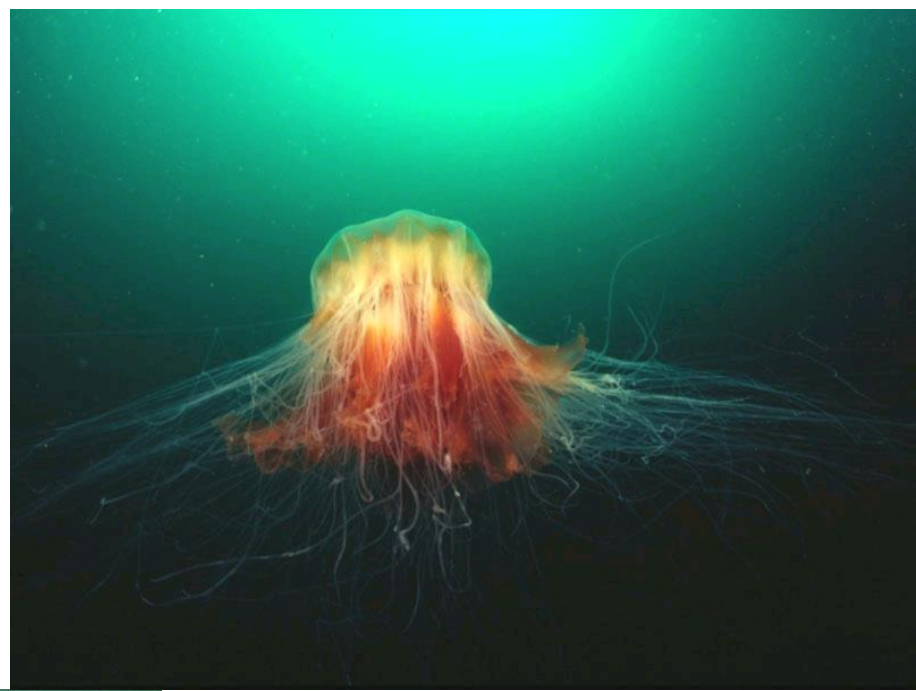
Skate



Fish



Jellyfish













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A Rocha's Core Commitments

- Christian
- Conservation
- Cooperation
- Community
- Cross-Cultural

A Rocha Marine Conservation

- Biodiversity and Beauty
- An Ocean of (Plastic) Hope
- Food Security, Human health and wellbeing



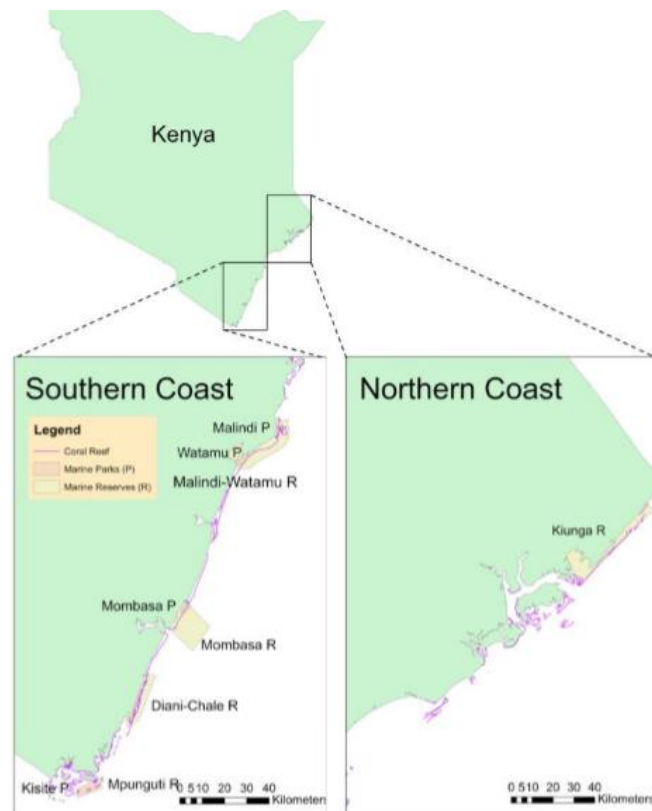




A ROCHA
KENYA



MWAMBA FIELD STUDY CENTRE







THE HABITATS AND BIODIVERSITY OF WATAMU
MARINE NATIONAL PARK:
EVALUATING OUR KNOWLEDGE OF ONE OF EAST AFRICA'S
OLDEST MARINE PROTECTED AREAS

*B. Corbett, P. M. Mwanishi, F. Sindi, D. Kikwira, C. Ruker,
A. Njiru, H. F. R. Heenan, B. Van Baelenbergh, D. Gochella,
J. Kaitira, M. Horio, R. D. Shika, M. L. Taylor and A. D. Rogers*



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Cheilinus undulatus

<http://dx.doi.org/10.2305/IUCN.UK.2004.RLTS.T4592A11023949.en>

Scope: Global

Language: English

[Download assessment](#)

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NOT EVALUATED	DATA DEFICIENT	LEAST CONCERN	NEAR THREATENED	VULNERABLE	<ENDANGERED>	CRITICALLY ENDANGERED	EXTINCT IN THE WILD	EXTINCT
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VIEW MAP

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[Classification Schemes](#)

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Taxonomy [top]

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Actinopterygii	Perciformes	Labridae

Scientific Name: *Cheilinus undulatus* Rüppell, 1835

Common Name(s):

English – Giant Wrasse, Humphead, Humphead Wrasse, Maori Wrasse, Napoleon Wrasse, Truck Wrasse, Undulate Wrasse

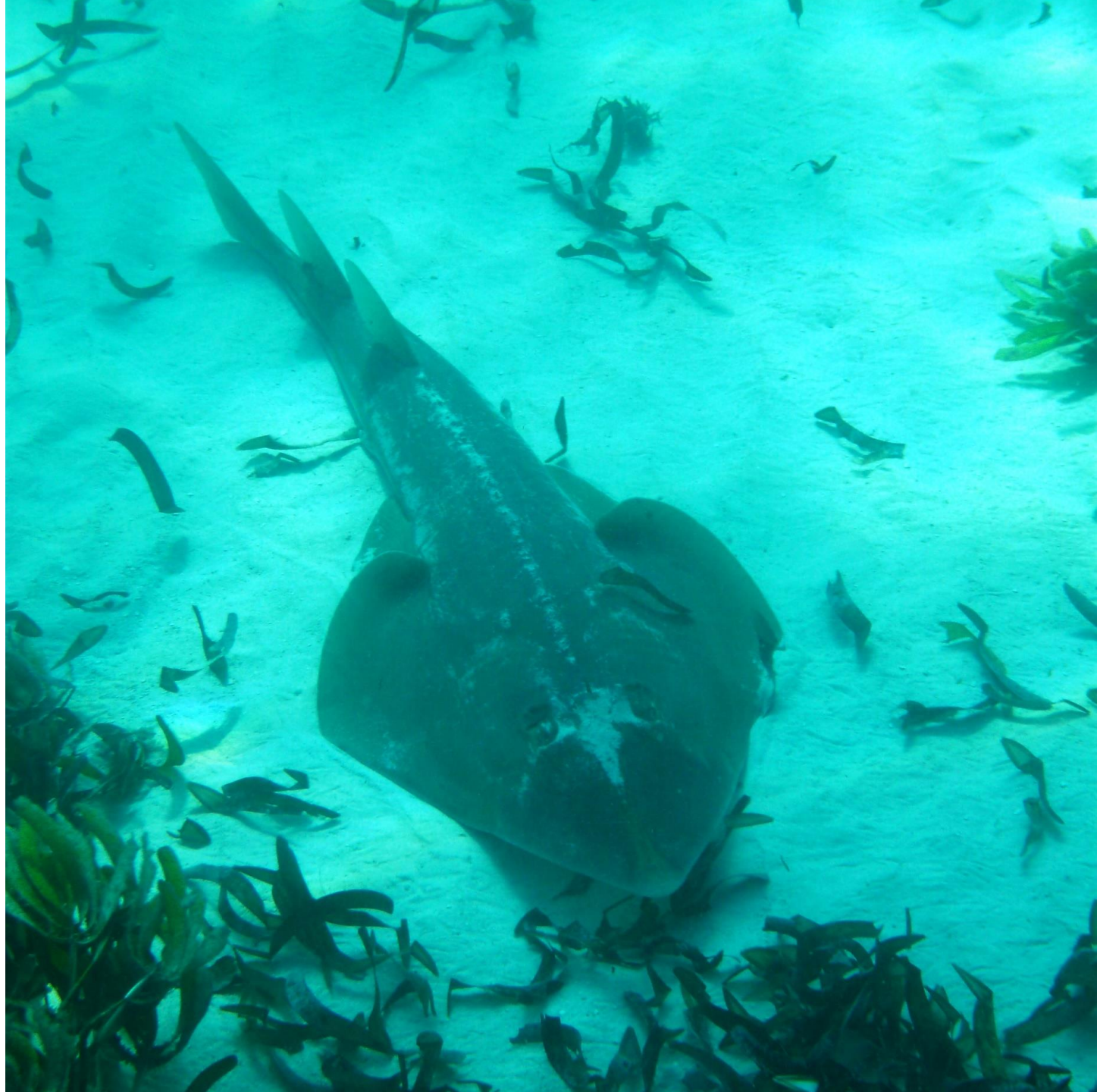
French – Napoleon

[Taxonomy](#)
[Assessment Information](#)
[Geographic Range](#)
[Population](#)
[Habitat and Ecology](#)
[Threats](#)
[Conservation Actions](#)

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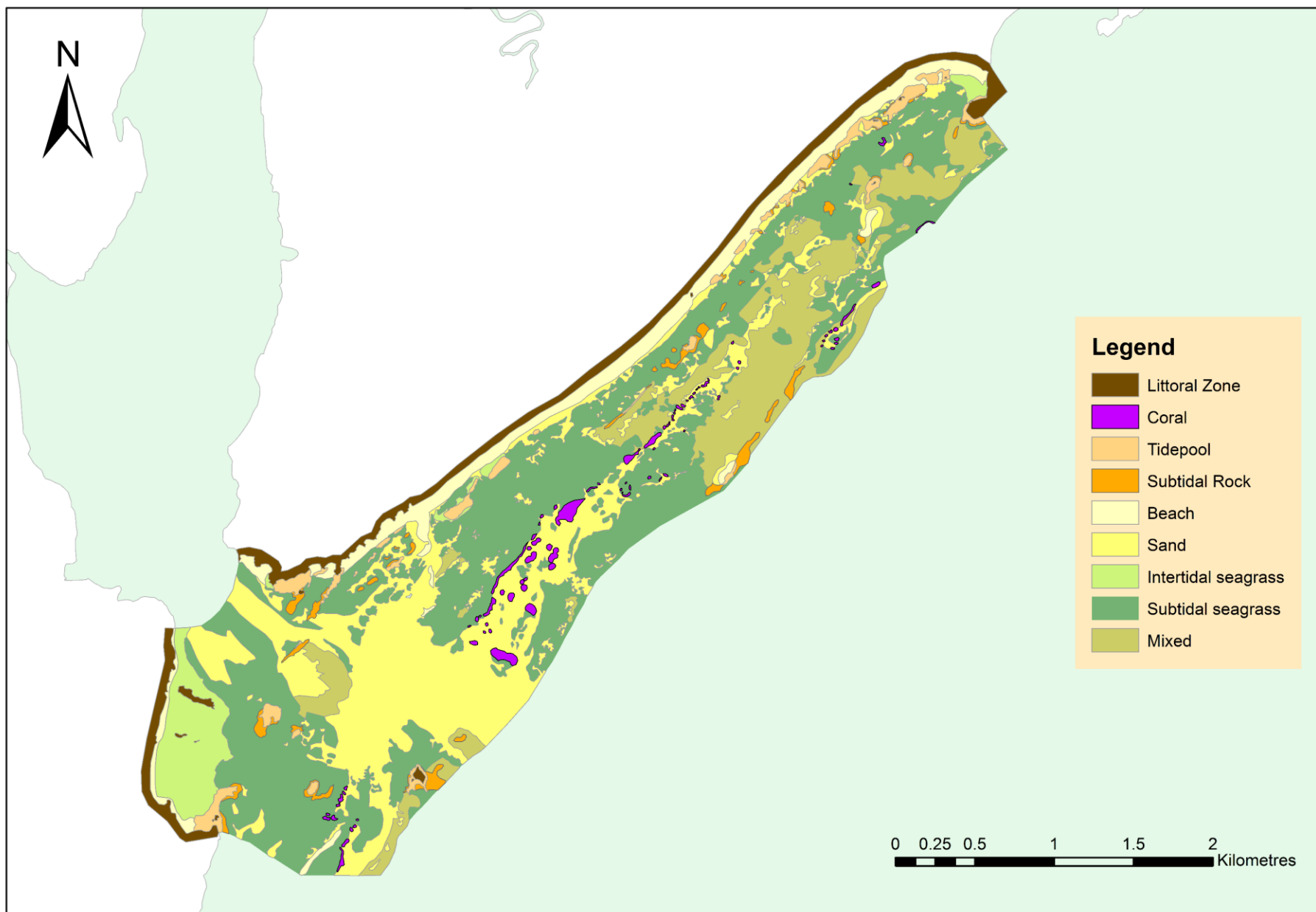
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Rocky intertidal fish assemblage of the Watamu Marine National Park, Kenya (Western Indian Ocean)

Victoria Sindorf · Benjamin Cowburn ·
Robert D. Sluka



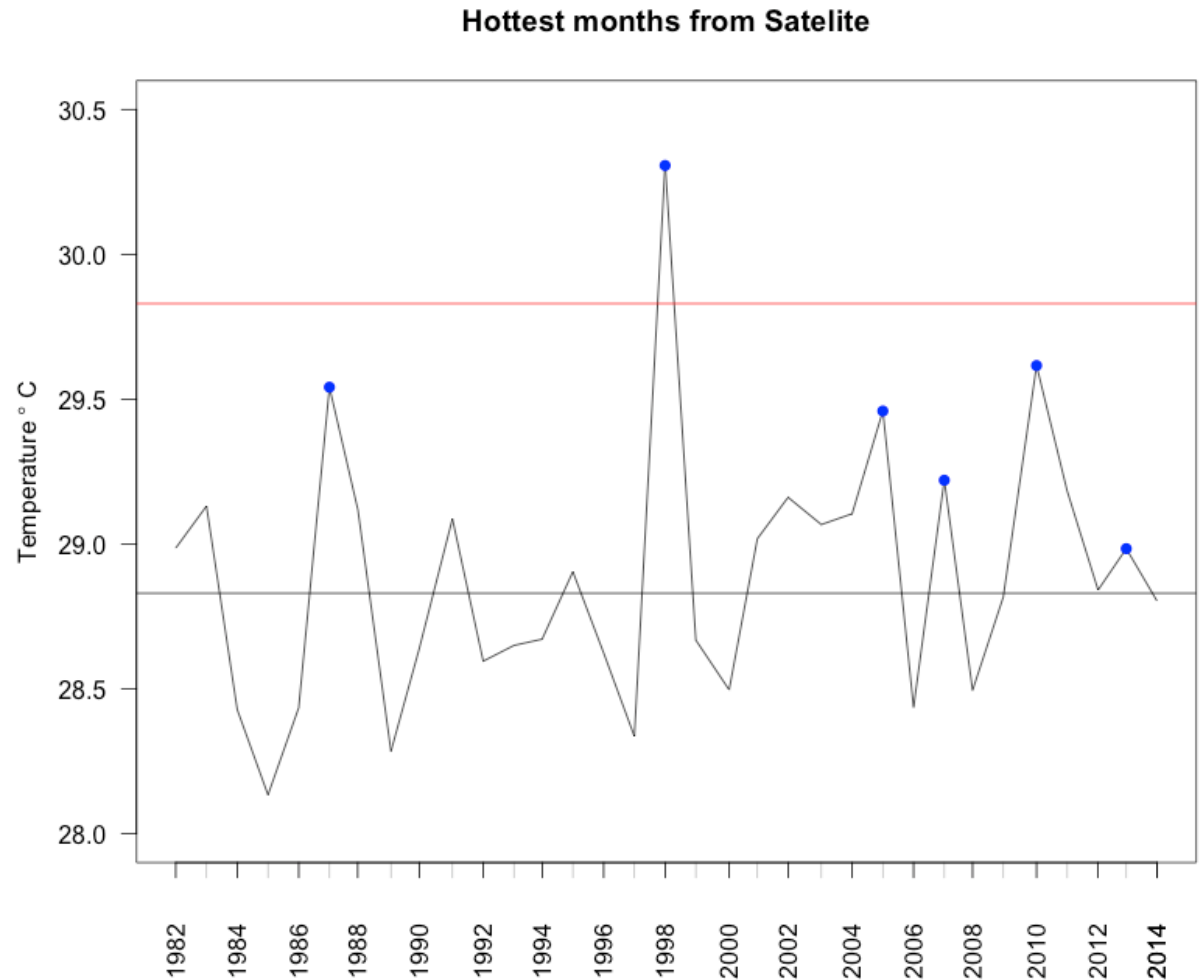


Coral Reefs and Climate change

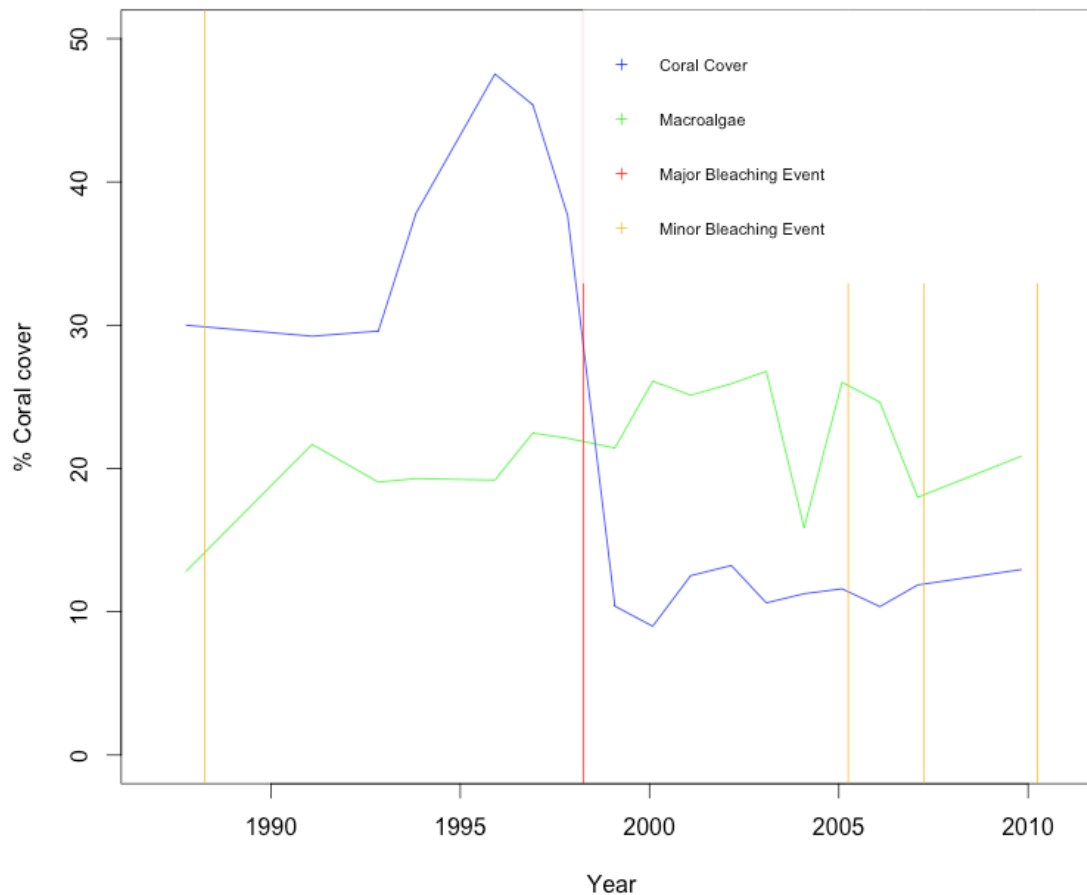


1998 Mass coral bleaching

- Thermal stress due to El nino caused mass coral bleaching.



- 16% coral mortality in the world's reef
- 70% decrease in coral cover in Kenya.



Coral reef resilience

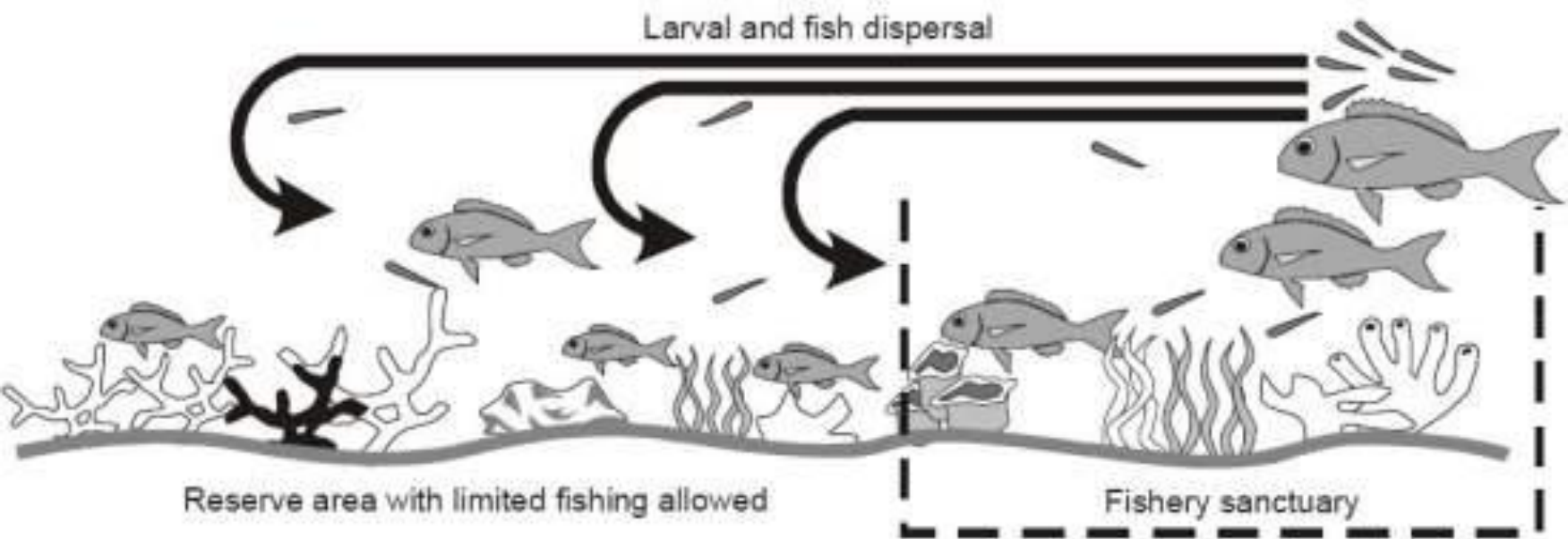
Coral bleaching will be more frequent in the coming decades.

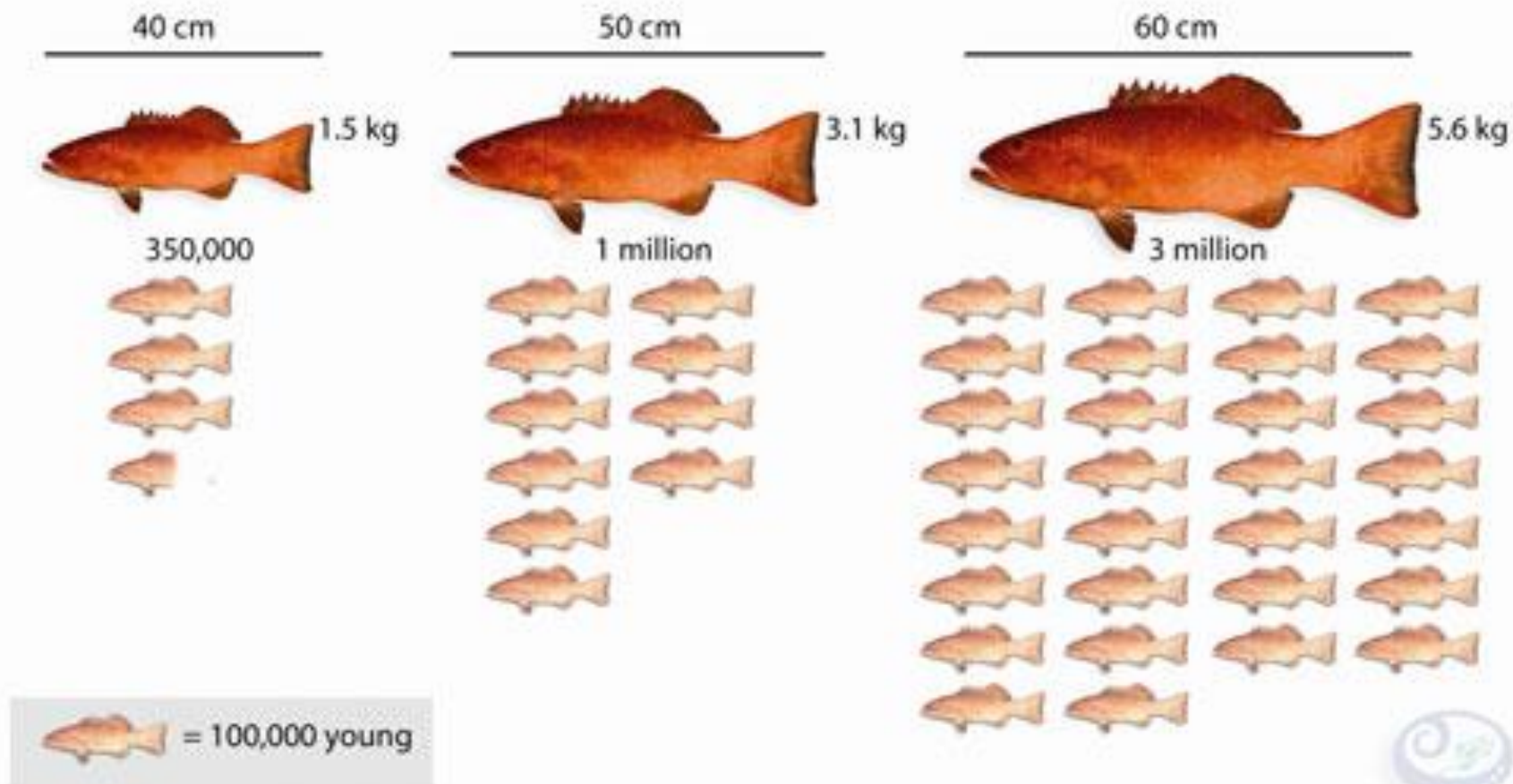
Phase shifts

- Coral dominated to algal dominated.
- Herbivory



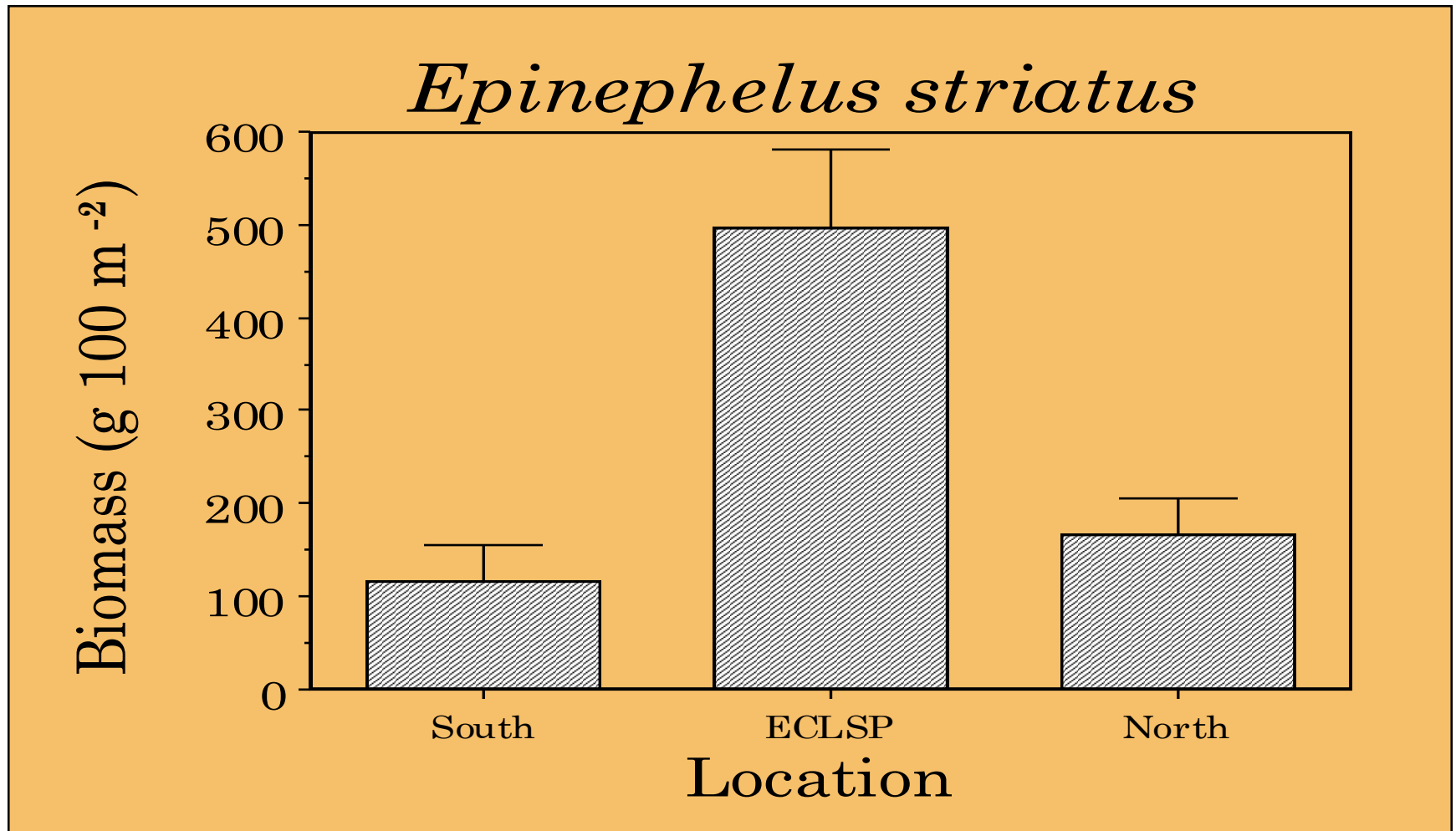
Overfishing and MPAs





Average numbers of young produced by three different sizes of coral trout.
Data: Goeden (1978) Queensland Fisheries Service Research Bulletin

Protection Inside MPA



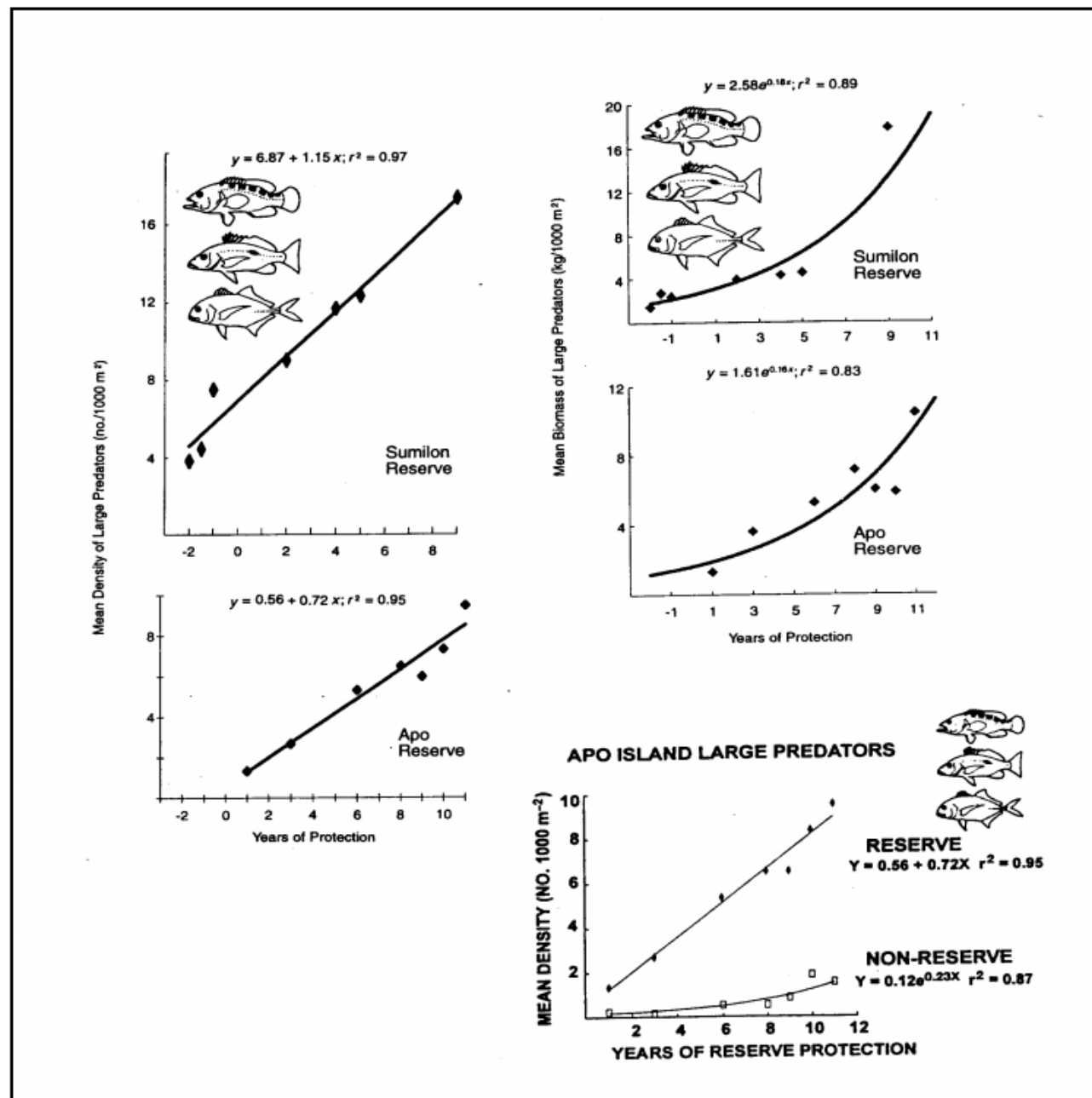


Figure 3. Changes in mean density (left) and biomass (right, top) of large predators (serranids, lutjanids, lethrins, and carangids) inside Sumilon and Apo marine reserves, Philippines. Negative years were open to fishing. (Right, bottom) changes in density of large predators inside and outside Apo reserve. After: Russ and Alcala, 1996a, 1996b; with permission.







'99 5 6

Terrestrial runoff



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