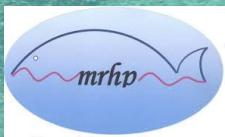


Southwest Madagascar Octopus Fishery



Tinah Martin
Sustainable Fisheries Project Assistant
Blue Ventures
Toliara, Madagascar



MIHARI
Malagasy Handicrafts



blue ventures
beyond conservation

MacArthur Foundation

DFID Department for International Development

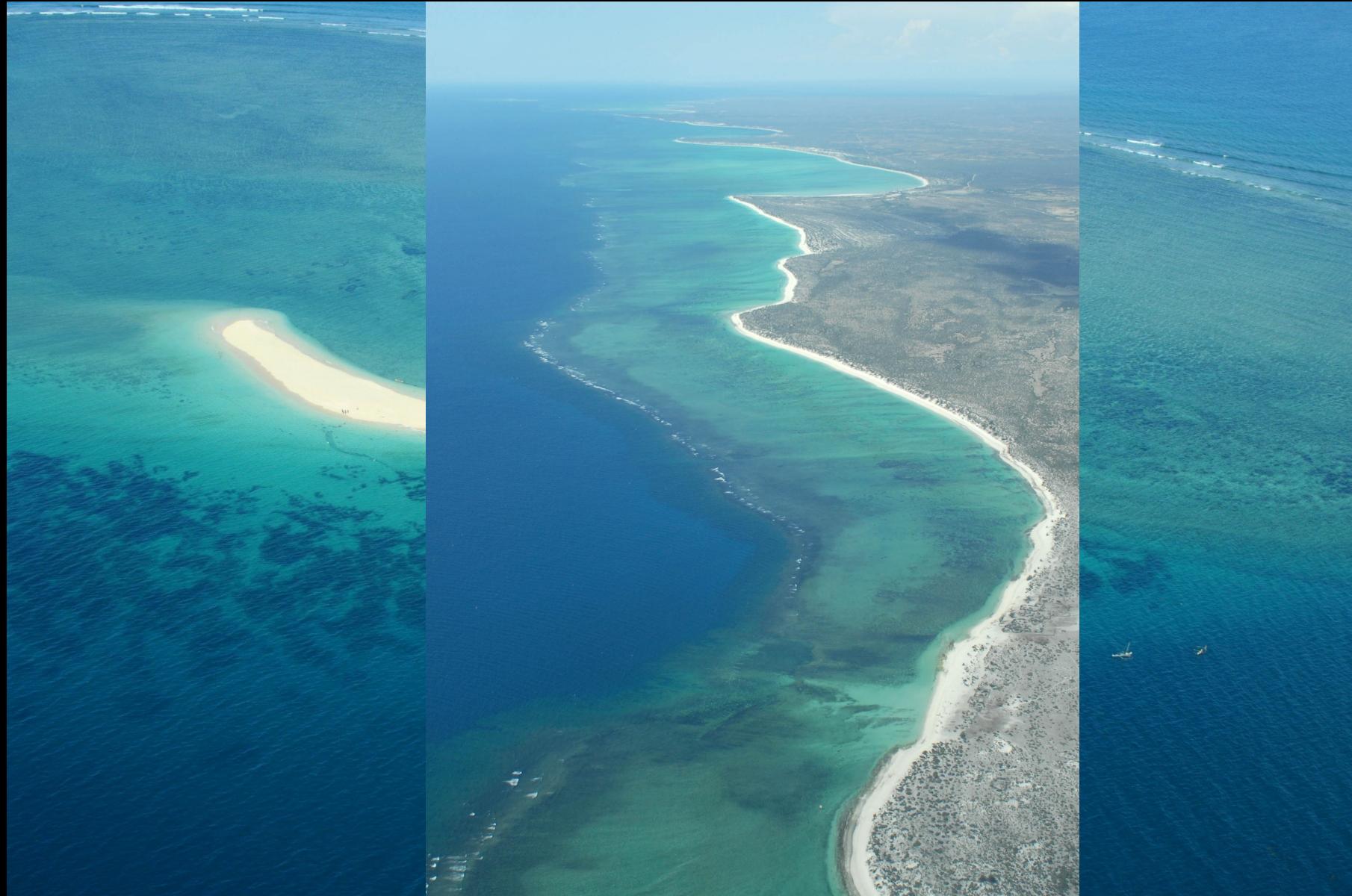
THE LEONA M. AND HARRY B.
HELM斯LEY
CHARITABLE TRUST

Main specie

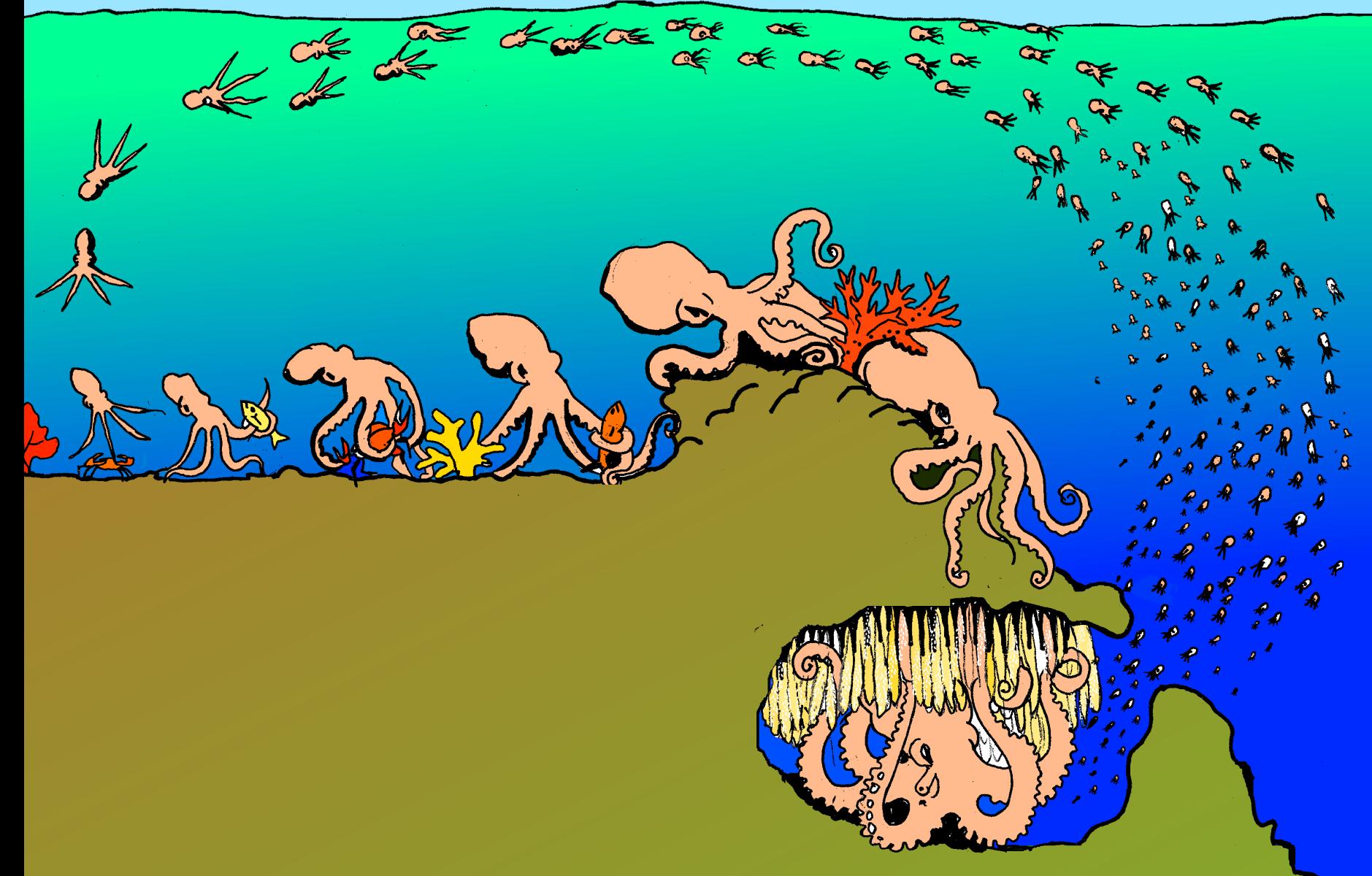


- *Octopus cyanea*
- 99 % of SW catch

Habitat : coral reef



Life cycle



Fast growth

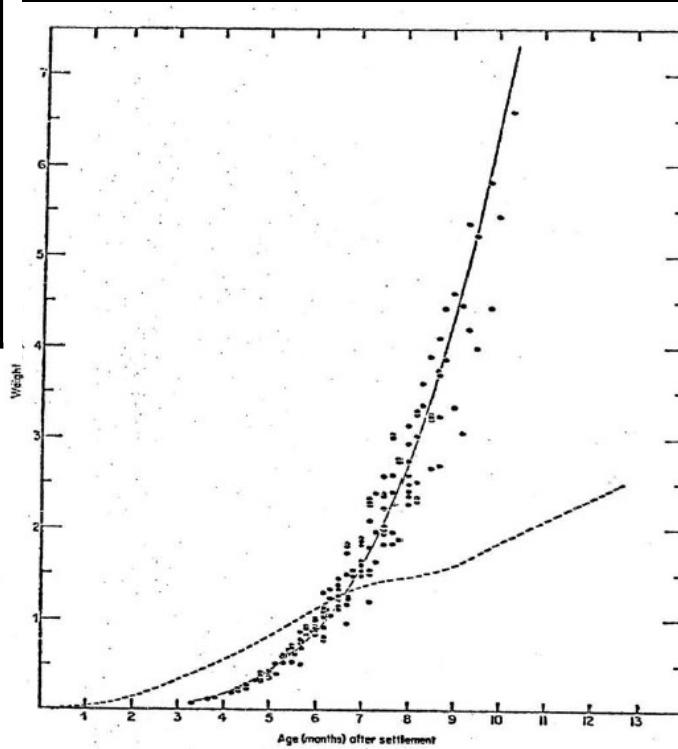
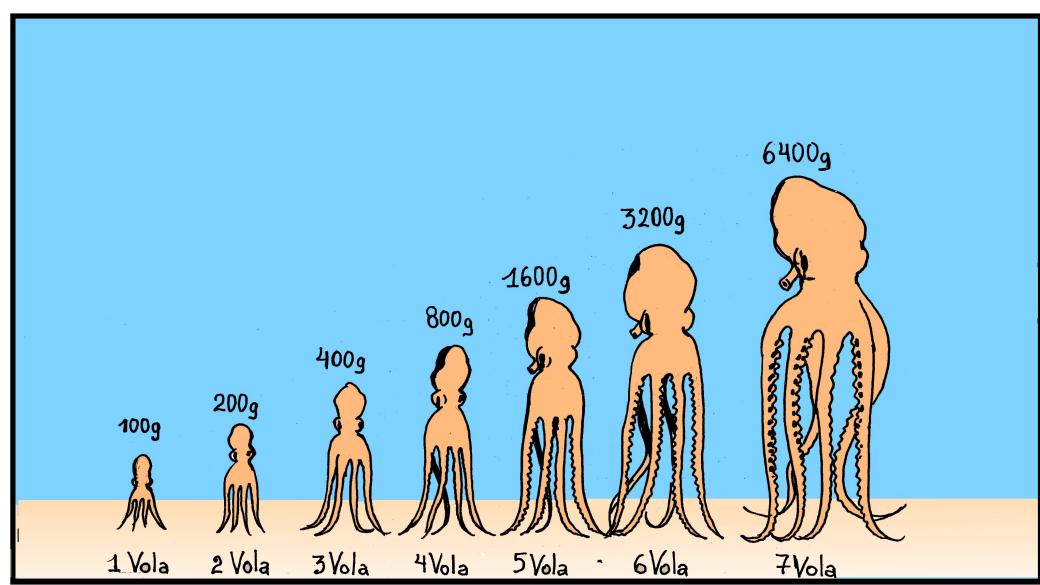
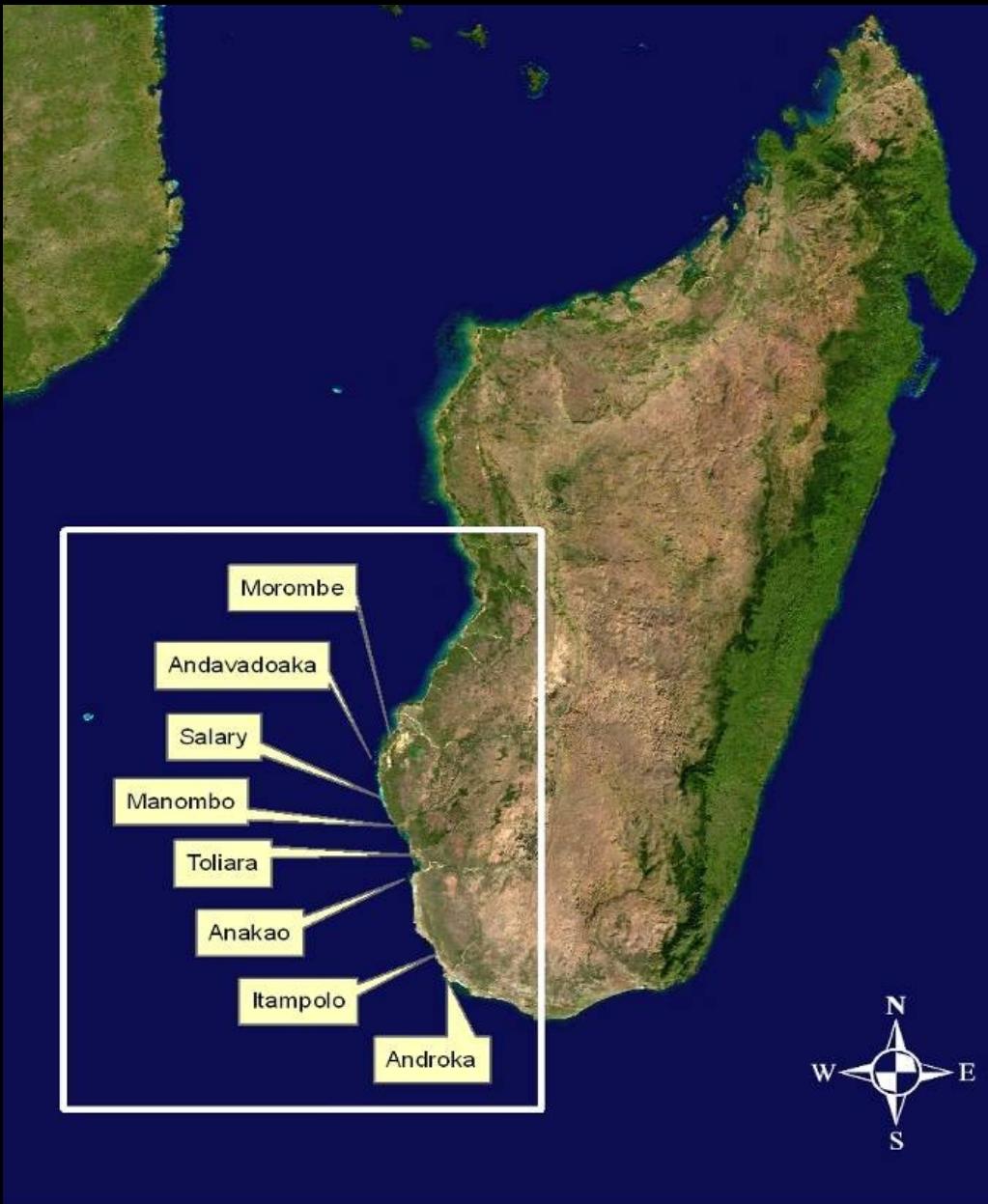


Figure 2. The growth curve of *O. cyanea* at 25.6°C obtained by plotting weights of 29 individuals (14 ♂♂, 15 ♀♀) at 15 day intervals is shown. The solid line represents the fitted curve described by $W = (1.28 \times 10^{-6}) (x)^{3.92}$ where W is body weight (g) and x is the age in days. The dotted line represents the growth of *O. vulgaris* (redrawn from Nixon, 1969b) where there is a seasonal depression of feeding (and hence growth rate) by water temperature. (From Van Heukelom, 1973.)

The size of the fishery



- 100.000 fishers
- 1000 tons in 2013, 850 tons exported

Fishing technique



Economic importance

Main export companies



Collect :
**COPEFRITO and Murex
International**

Exported to :
**- Mauritius (Murex),
- Italy, France and
Spain (COPEFRITO
and Murex)**

Fishery status

Tendency

- Growth since 1995 (114 t)
- Peak in 2003- 2004 : Total production around 900 tonnes.
- No evidence of over-exploitation

Threats

- Bad practices
- New fishing techniques
- New collectors
- Lack of knowledge

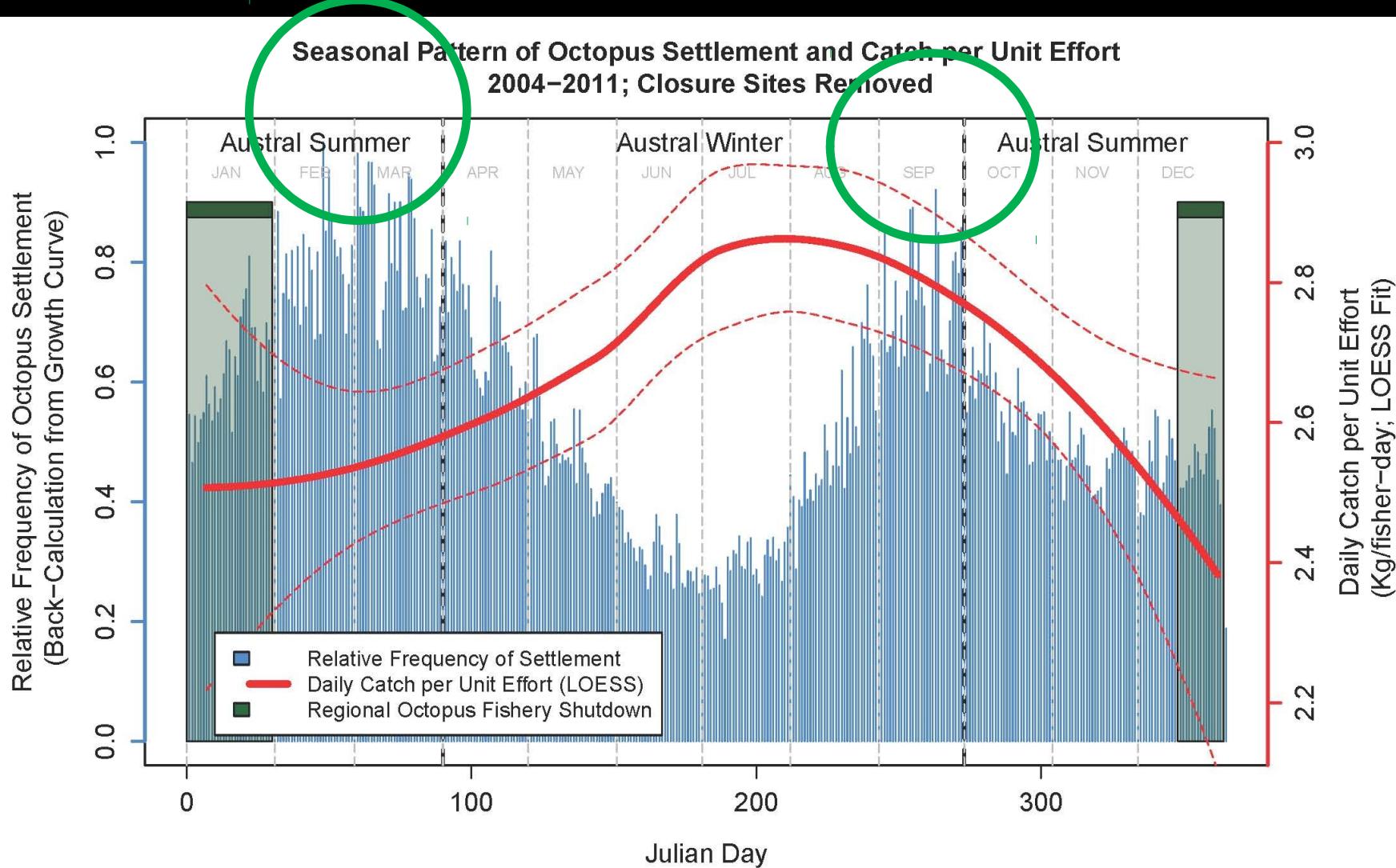
Bad practices



Management : scientific research



Management : scientific research

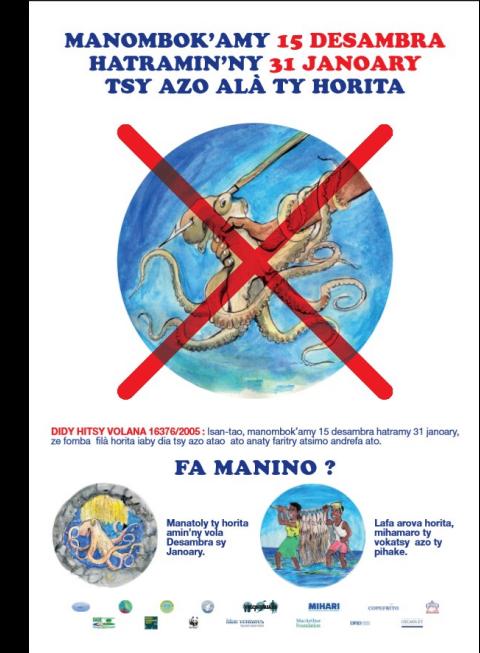


- 2 apparent peaks in octopus settlement of the reef flat
- Target closures 5 months after the two peaks

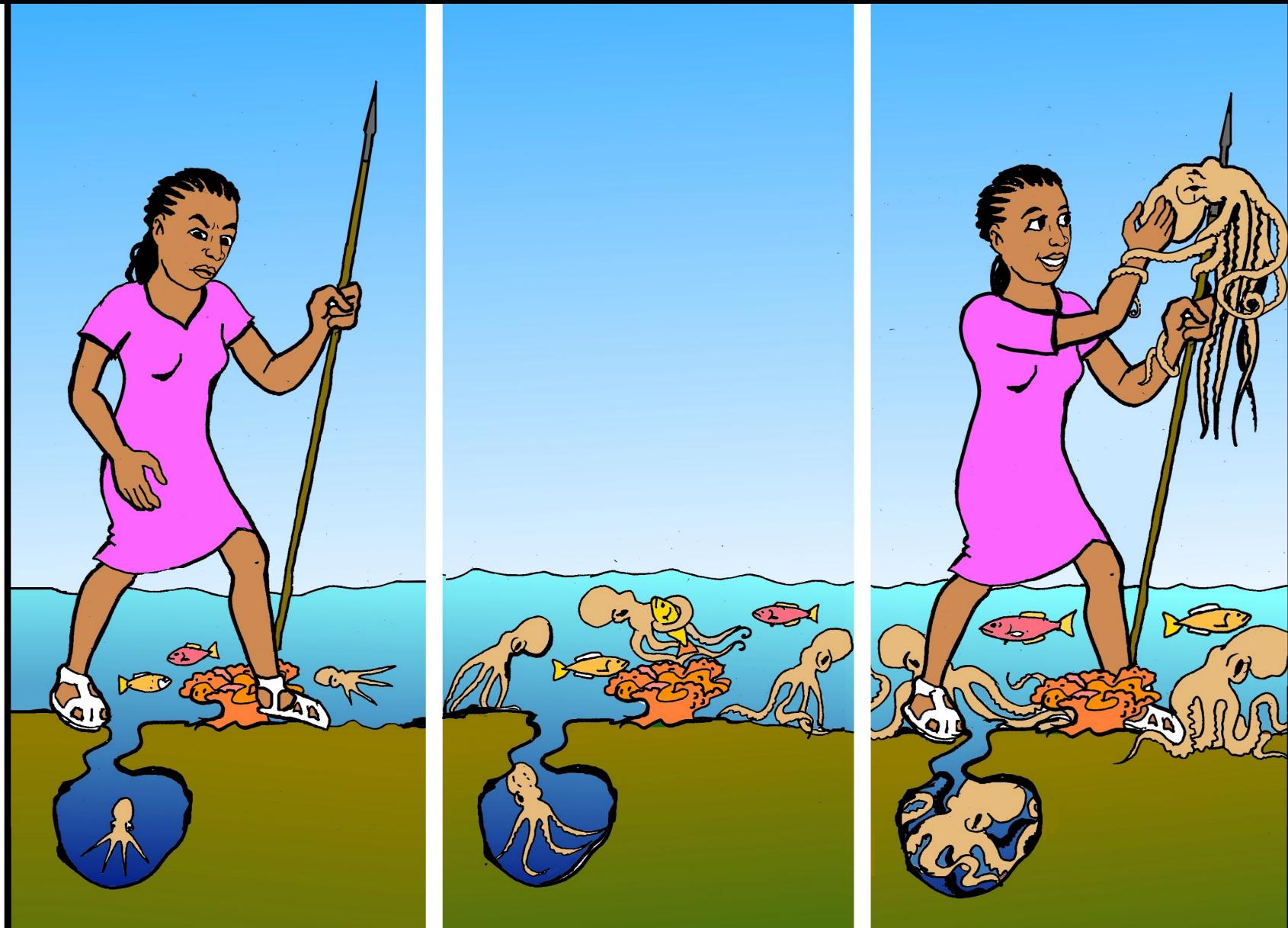
Management : closures and minimum size



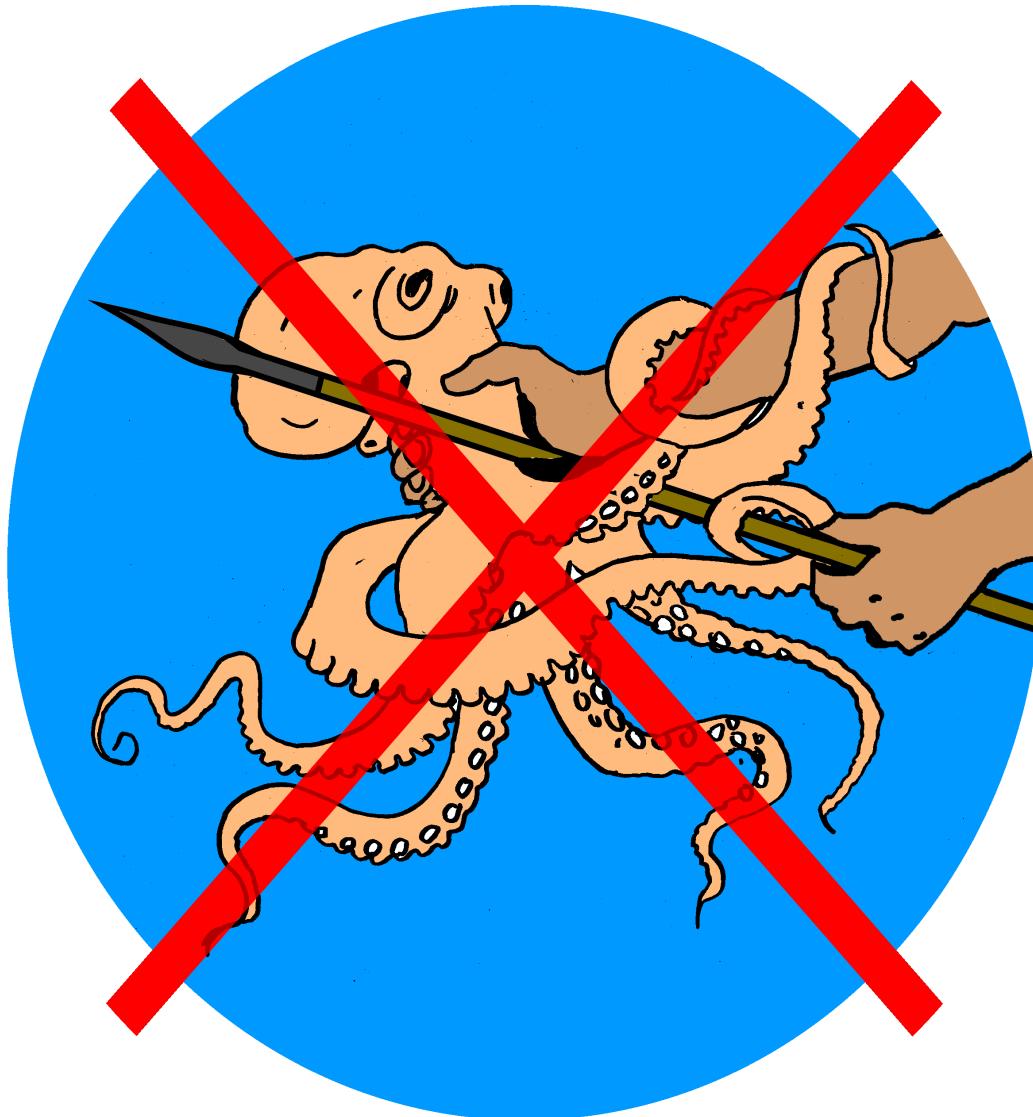
- **Temporary closures :**
 - Local (DINA), since 2004
 - Régional (national law), since 2005
- **26 local closures in 2015**
- **Minimum size (350g)**



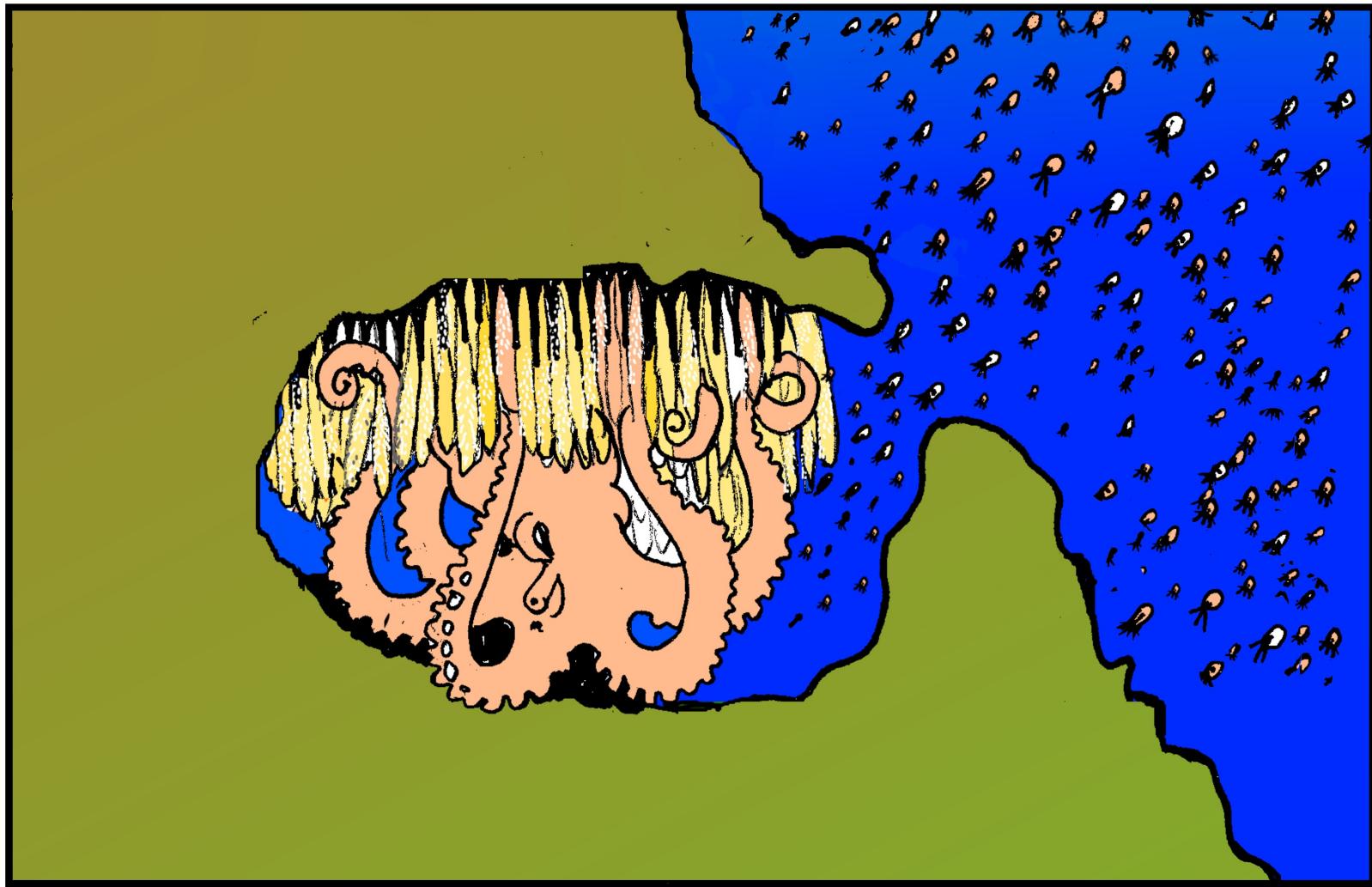
Management : local closures



Management : Regional closure, 15th of December to 31st of January



Management : Regional closure, 15th of December to 31st of January



MSC : Marine Stewardship Council



MSC principles

1. Target Stock Sustainability

- Harvest strategy
- Stock Status

2. Ecosystem Sustainability

- Non-target species
- Ecosystem
- Habitat

3. Effective Management

- Government & Policy
- Fisheries Specific Management



MSC advantages

- Fishery famous
 - Good stock management
- 
- 
- Projects, donors
- Sustainability

Misaotra bevata !

