

R O B E R T
W A N

PROTECTION OF THE BIOSPHERE

Farming pearl oysters in a remote coral atoll

Robert Wan's oyster & pearl farms in French Polynesia :



Legend :

- ① FAKARAVA : 450 km au NE de Papeete. Pearl farms. -
- ② NENGO NENGO : 853 km au SE de Papeete. Pearl farms..
- ③ MARUTEA SUD : 1651 km au SE de Papeete. Pearl farms. -
- ④ GAMBIER-TAKU : 1846 km au SE de Papeete. Pearl farms.,
- ⑤ GAMBIER-AUKENA : 1846 km au SE de Papeete. Pearl farms. -
- ⑥ APATAKI : 350 km au NE de Papeete. Pearl farms..



TUAMOTU GAMBIER NATURAL & RICH RESERVE

Tuamotu Gambier – Rich environment – Preserved area

Tuamotu

- One of the world biggest chains of atolls
- Part of the Tuamotu-Gambier administration subdivision
- Anaa, Fakarava, Hao and Makemo

Gambier

- Farthest islands of French Polynesia
- Mangareva highest atoll is surrounded by a 90 km coral reef



ENVIRONMENT

- Tropical climate
- Limited vegetation cause if coral ground
- Agriculture is mainly for subsistence
- Limited animal life: birds, insects and lizards
- Marine fauna is diverse



PRESERVED AREA

- Biosphere reserve => real challenge
- Zoning, reserve management possibilities, overall development plan and maritime spatial plan
- Fakarava, second largest polynesian atoll
- 2006: Tuamotu biosphere reserve encompassed seven atolls
- Classed as a biosphere reserve by UNESCO

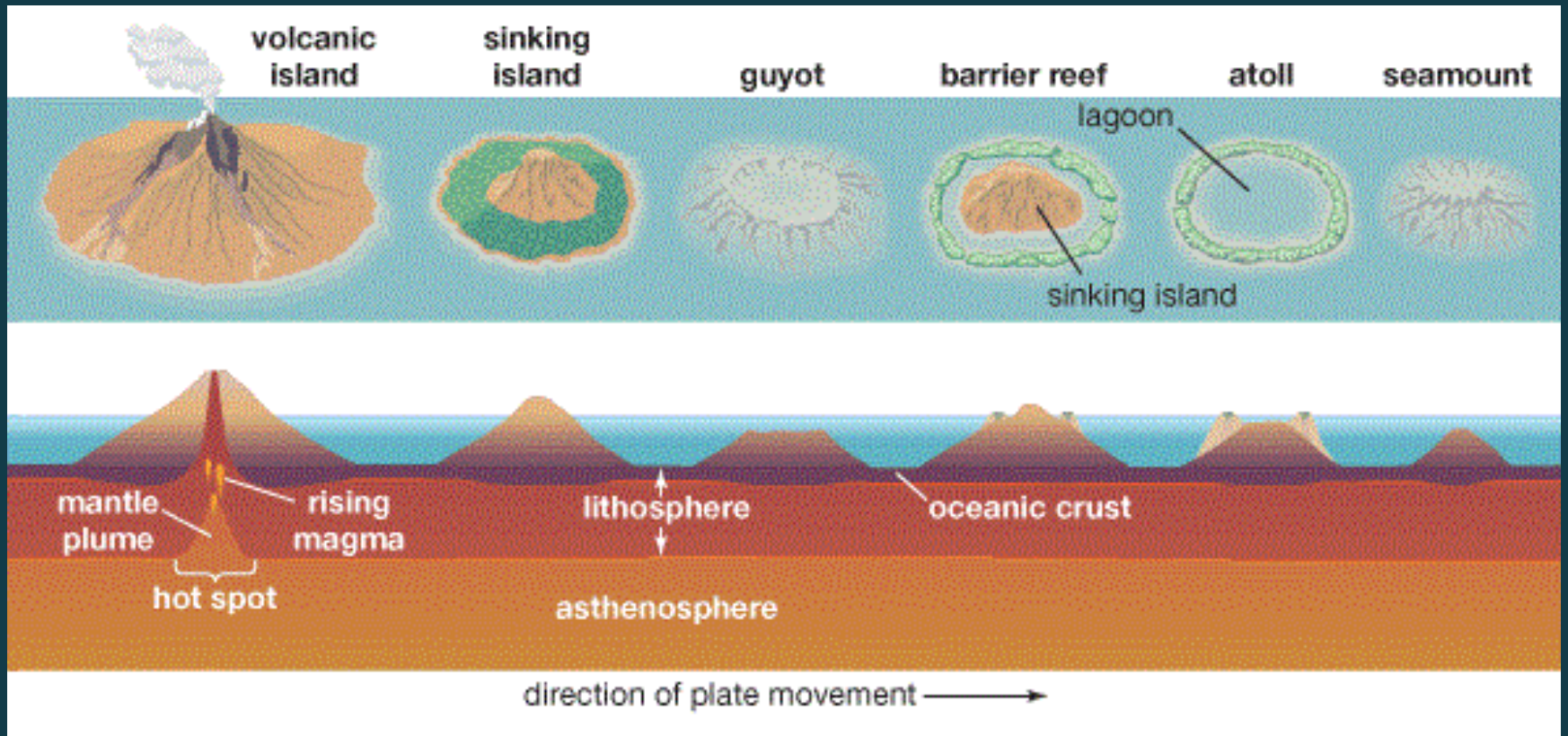
WHAT IS AN ATOLL?

Definition - Formation – Endo up welling system

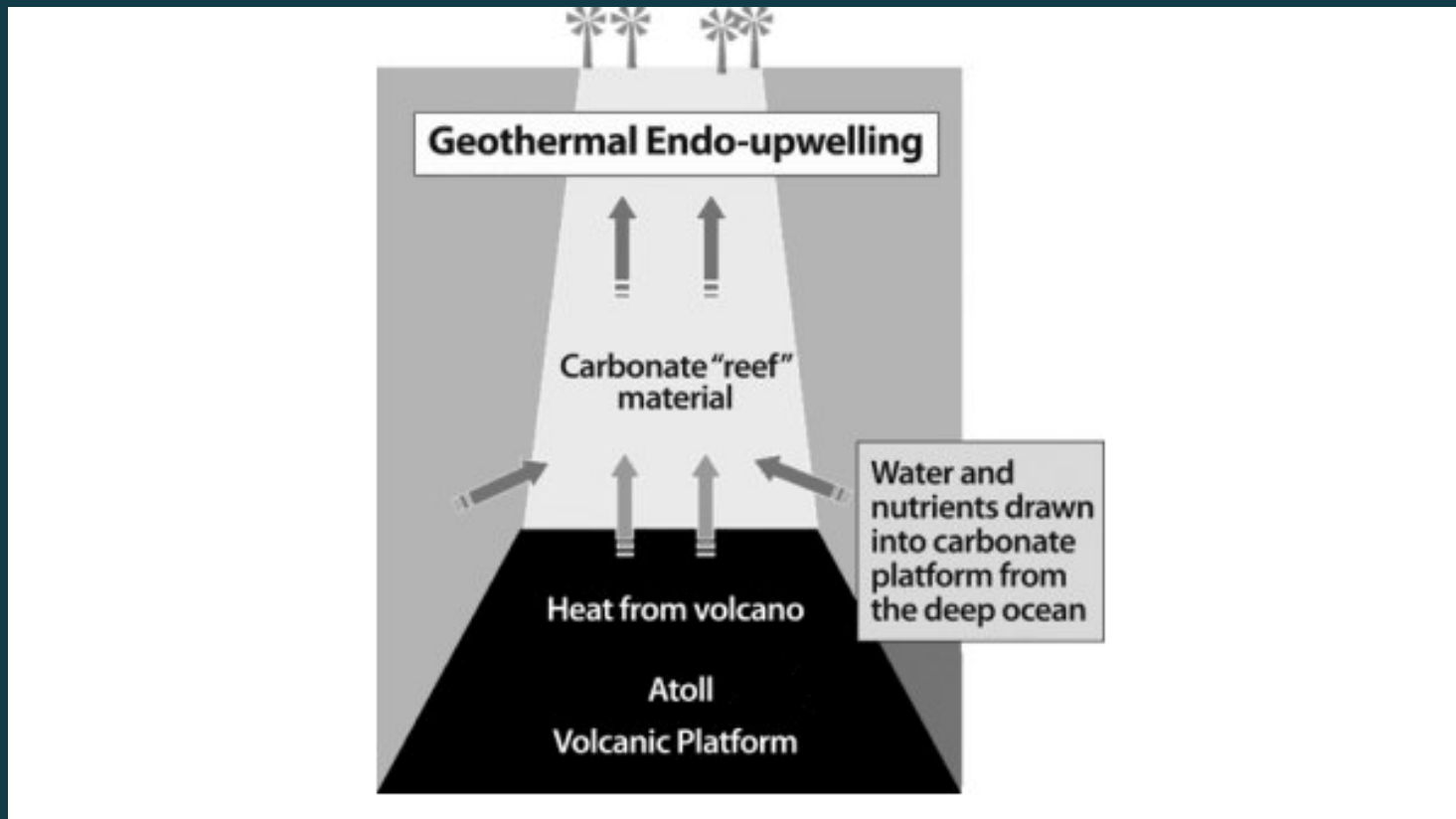
DEFINITION

- Atoll = ring-shaped coral reef
- Island = any piece of sub-continental land that is surrounded by water
- Organic geomorphological construction
- Cyclone, tsunami, swell = main engines of the geomorphologic evolution

FORMATION OF AN ATOLL



ENDO UP WELLING SYSTEM

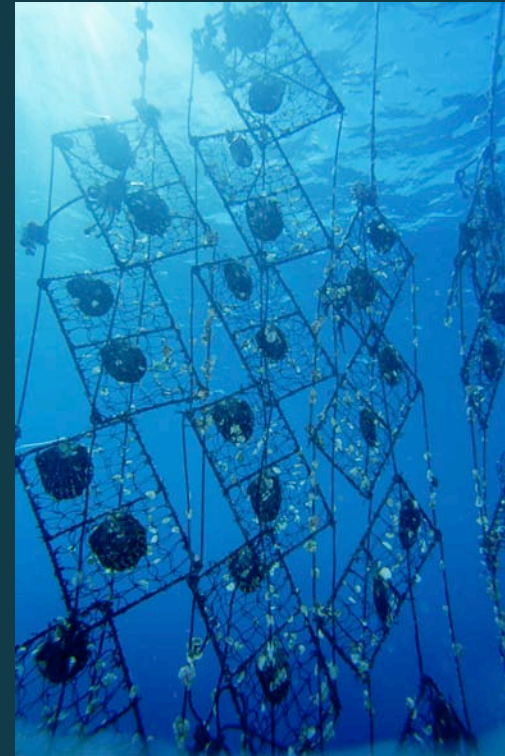


RW PEARL FARMS

Oyster breeding facility– Pearl farms life – Bio certification

OYSTER BREEDING FACILITY

- Far from city pollution
- Marutea sud: company main pearl farm
- Cyclones completely destroyed it
- Pearl production cycle: 14 to 16 months for others pearl farms and 24 months for mines
- Nacre's fragile biotope is respected and pearl farm environment too



PEARL FARM LIFE & BIO CERTIFICATION

- 200 persons live and work at the pearl farms in total respect of the environment
- Independant and protected area for the generator
- Biodegradable cleaning products
- Waste water: collect and treat
- Double objective: respect and excellence
- 2009: BIO CERTIFICATION

SCIENTIFIC RESEARCHES

- Oyster breeding installation = best investment for pearl farming industry future
- Researchers and biologists control and analyze Tahitian pearl's environment
- Nacre's age: 500 million years

CONCLUSION

- Pure environment offers exceptional pearls.
- Respect environment = Mother Nature is generous
- Precious and best quality, they made my renown.



THANK YOU FOR YOUR ATTENTION

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