The SEACUSEY project

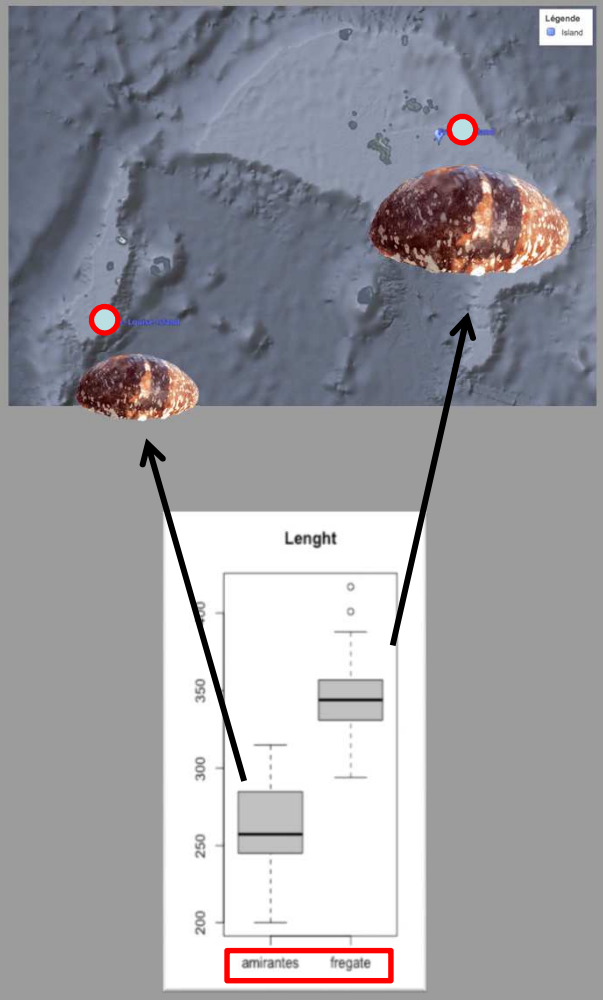


Activities 1 & 2: biological and genetic studies

2 components:

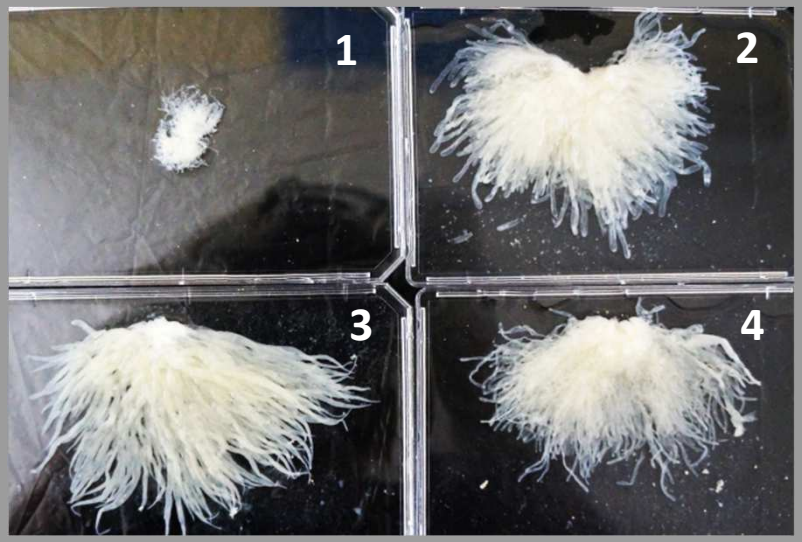
- Size at maturity (pentard)
- Genetic diversity (pentard & white teatfish)

Activity 1: size at maturity

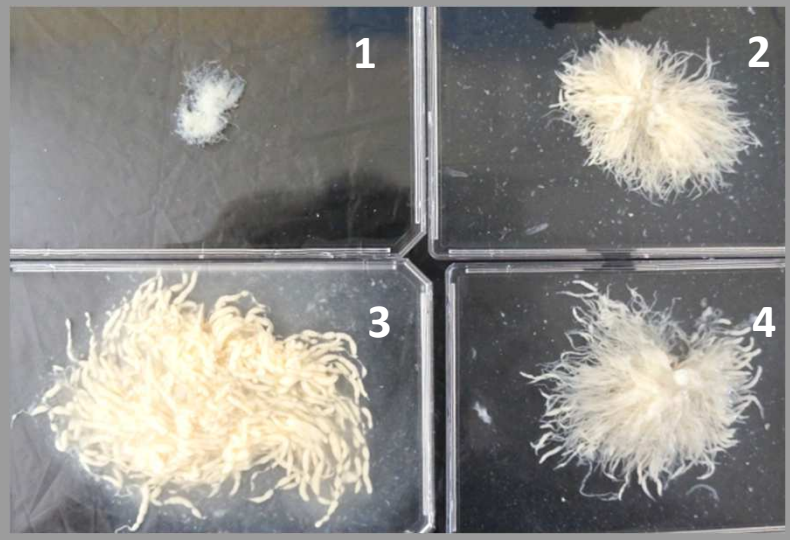


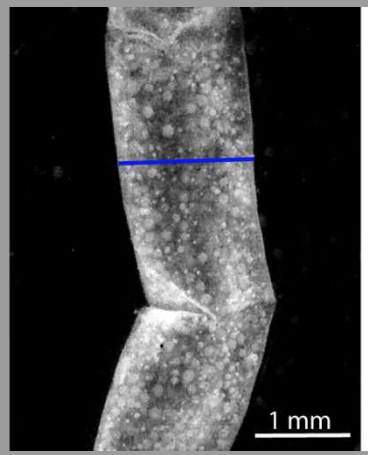
Activity 1: size at maturity

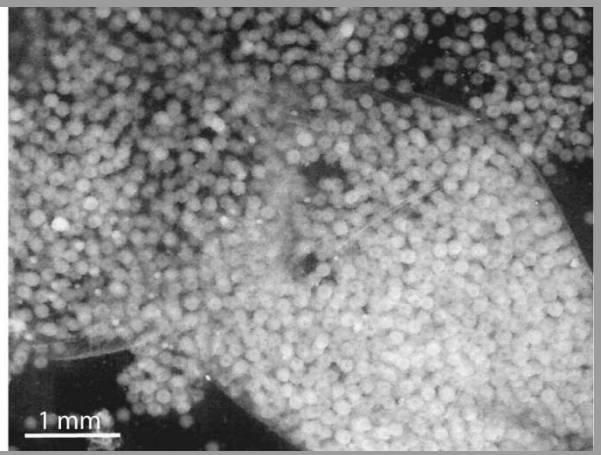
Gonad stages (female)



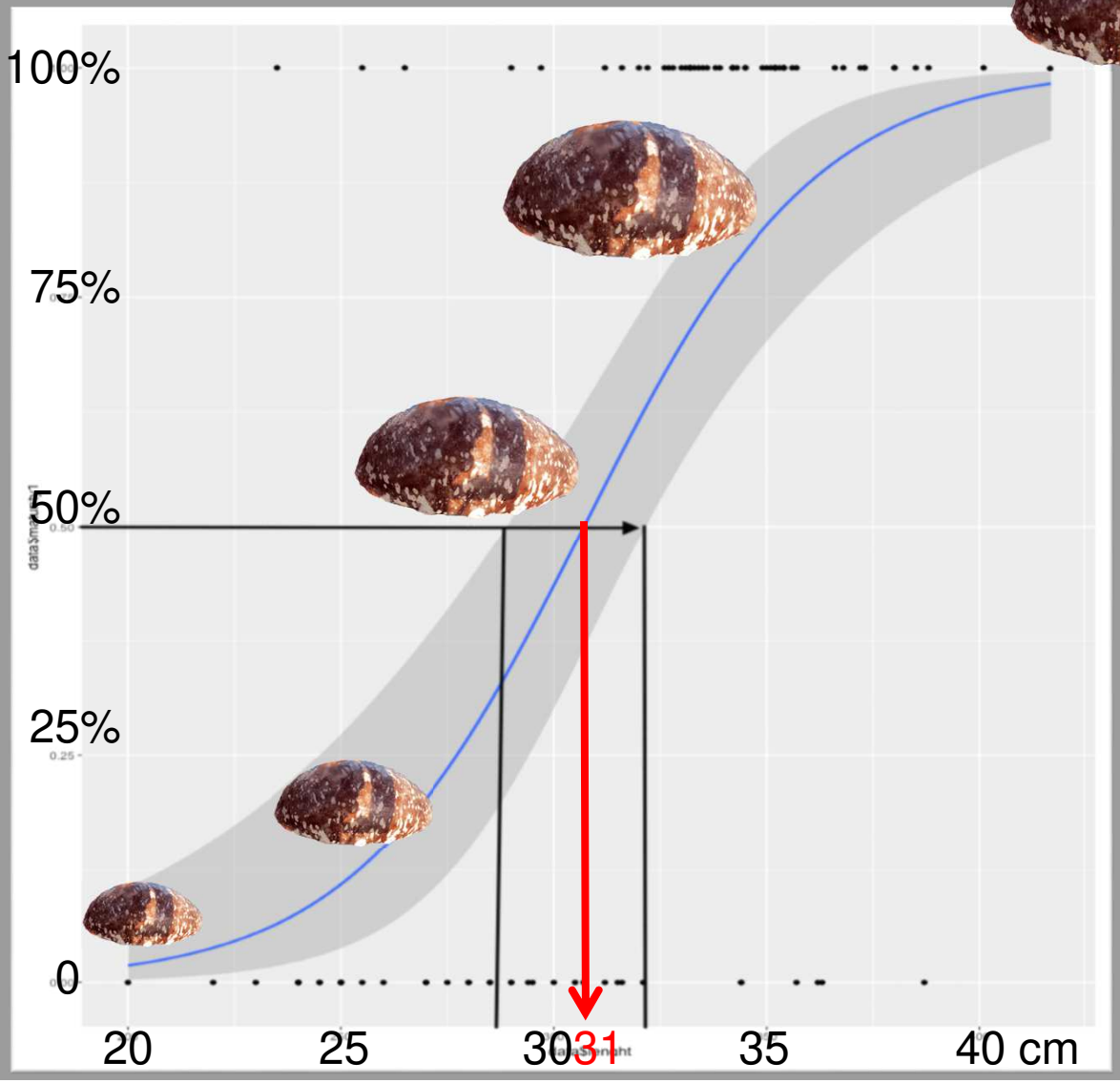
Gonad stages (male)







Activity 1: size at maturity



3

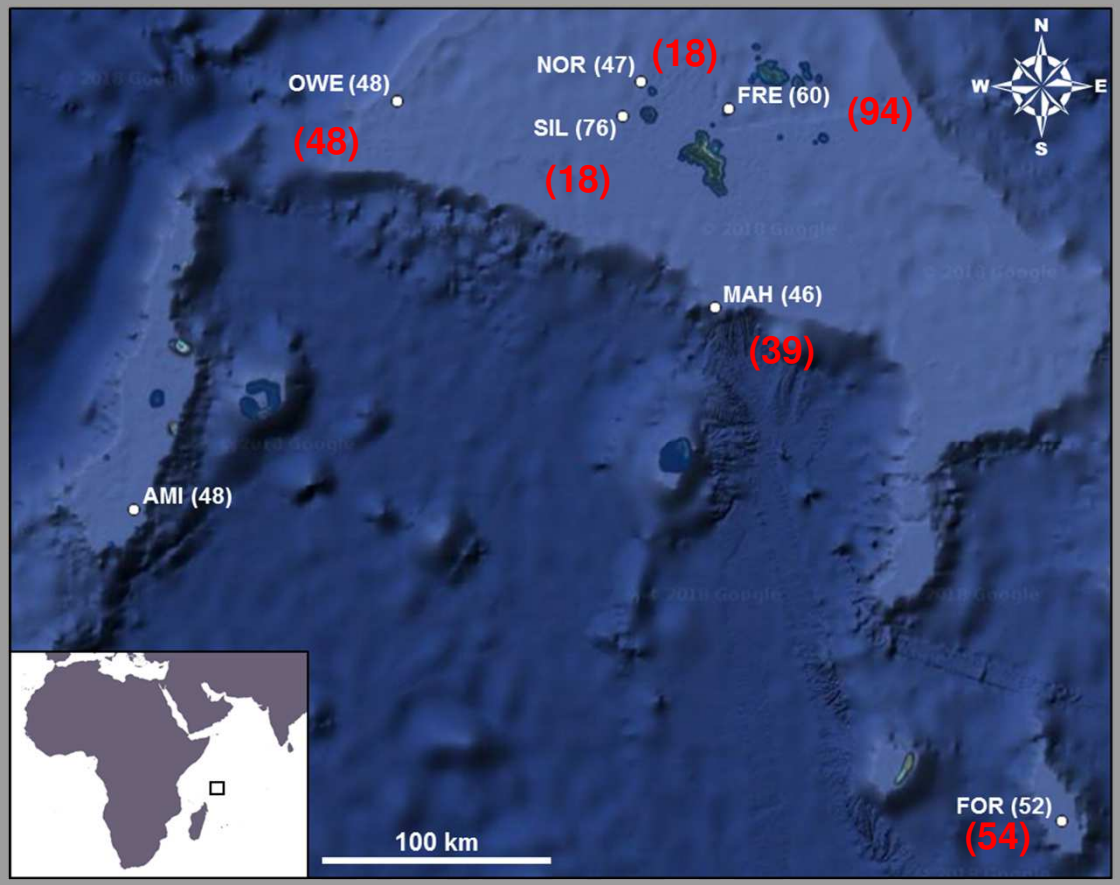
…But small sample (92)

Activity 2: genetic structure

Samples*

- 377 individuals
- 7 sites
- 19 markers

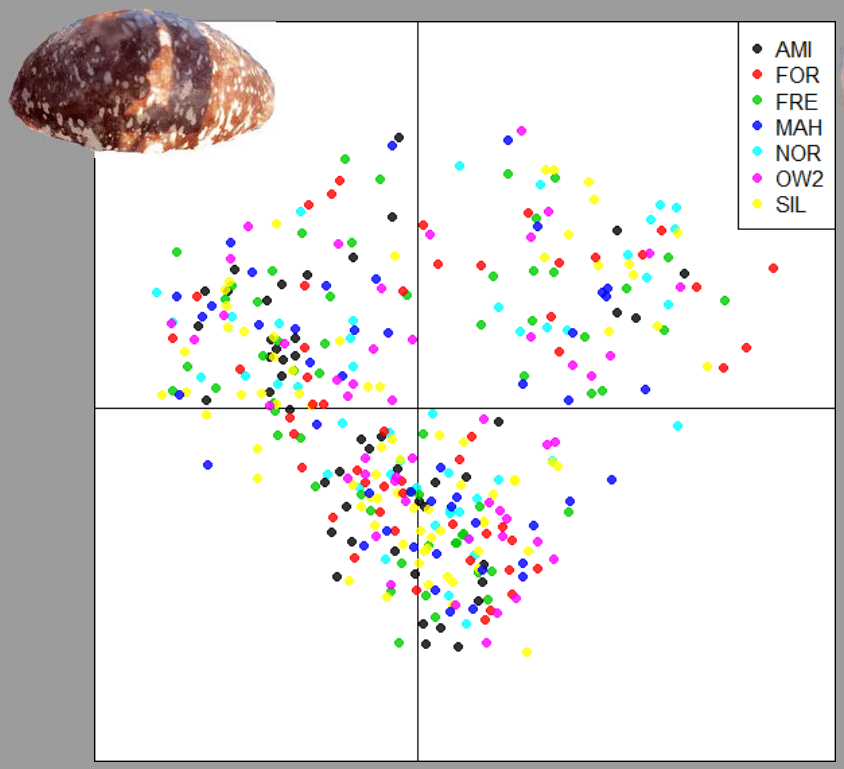
- 271 individuals
- 6 sites
- 16 markers



**Markers developed for 4 species*

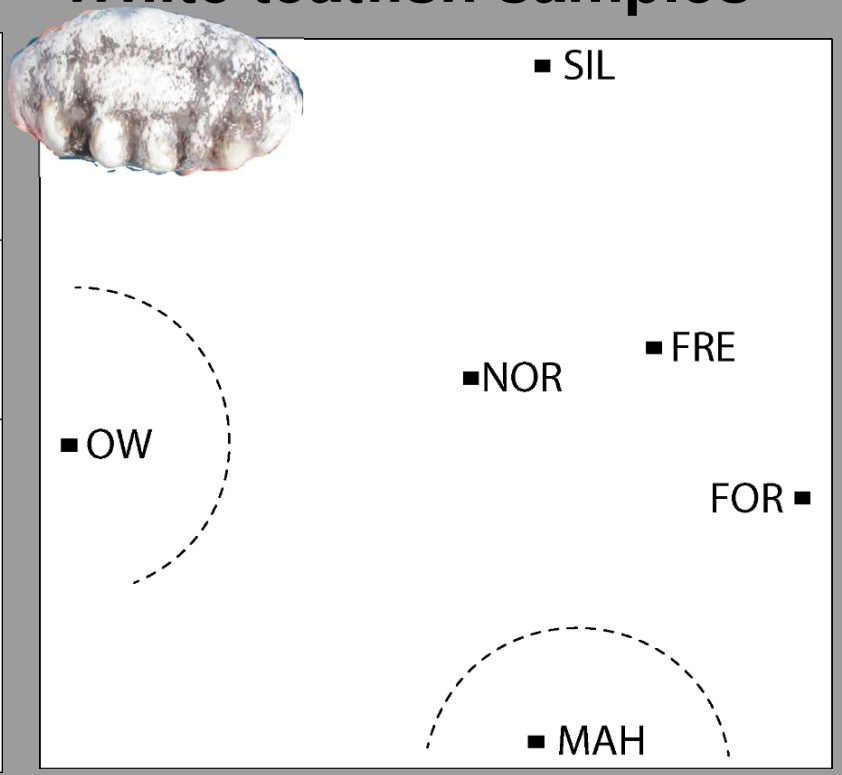
Genetic structure

Pentard samples



- All sampled populations are **strongly connected** (high gene flow)

White teatfish samples



- Owen and Mahé populations show **limited connectivity** (weak but significant structure)

Activity 2: genetic structure

Conclusions:

- 1 single stock per species
- no asexual reproduction
- high genetic diversity

But…

White teatfish: lower gene flow (due to lower abundance?)

Open discussion (session 4)