

Adaptive Fisheries Assessment and Management (AFAM) Toolkit Training

Setting the Stage: What is Fisheries Management?

Roadmap

- Provide context for the AFAM toolkit
- Brief introduction to fisheries management theory
- Description of data-limited stock assessments in relation to traditional stock assessments

The context:

Small-scale, nearshore fisheries in the developing tropics



FISHFOREVER

A partnership of:

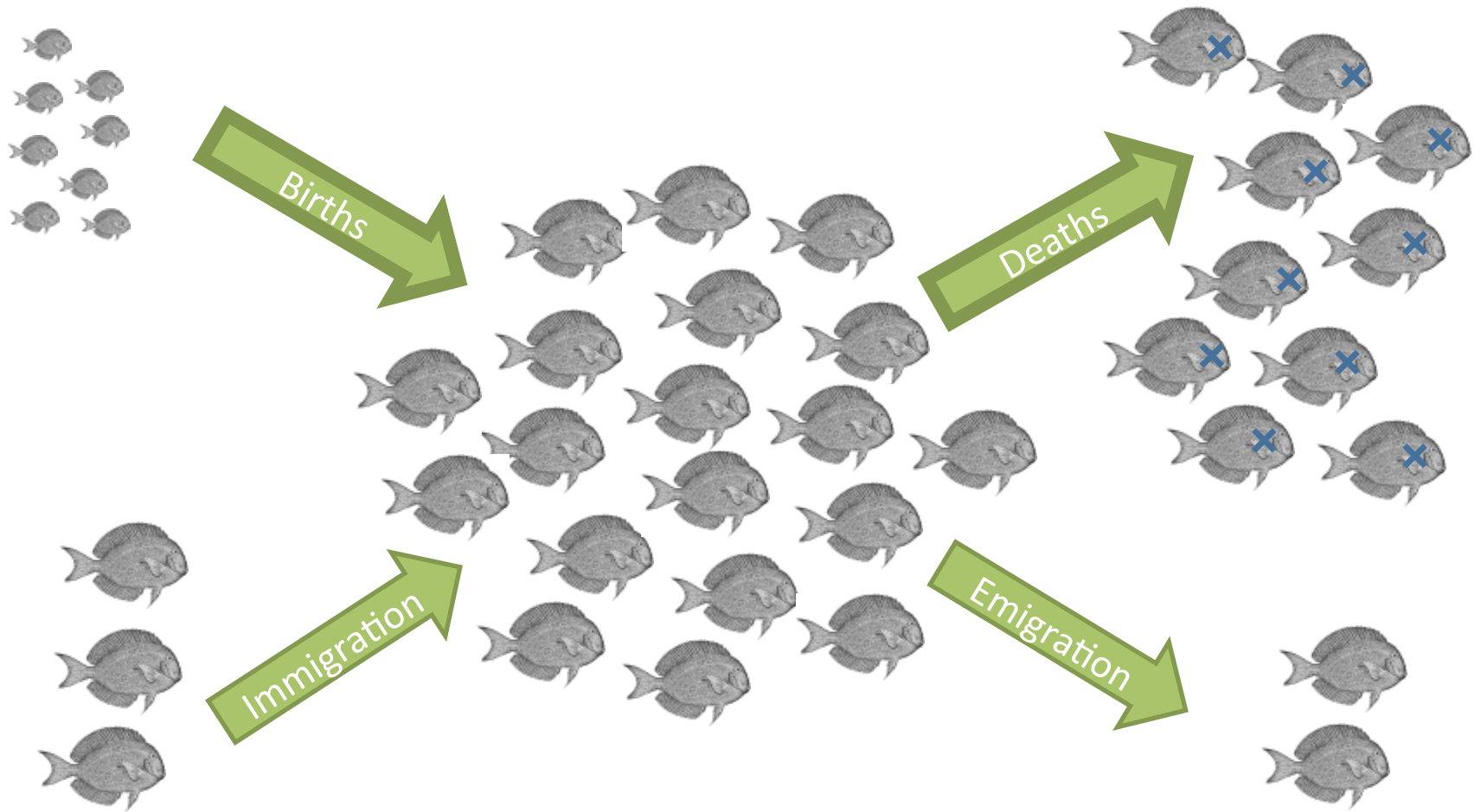


The challenge:

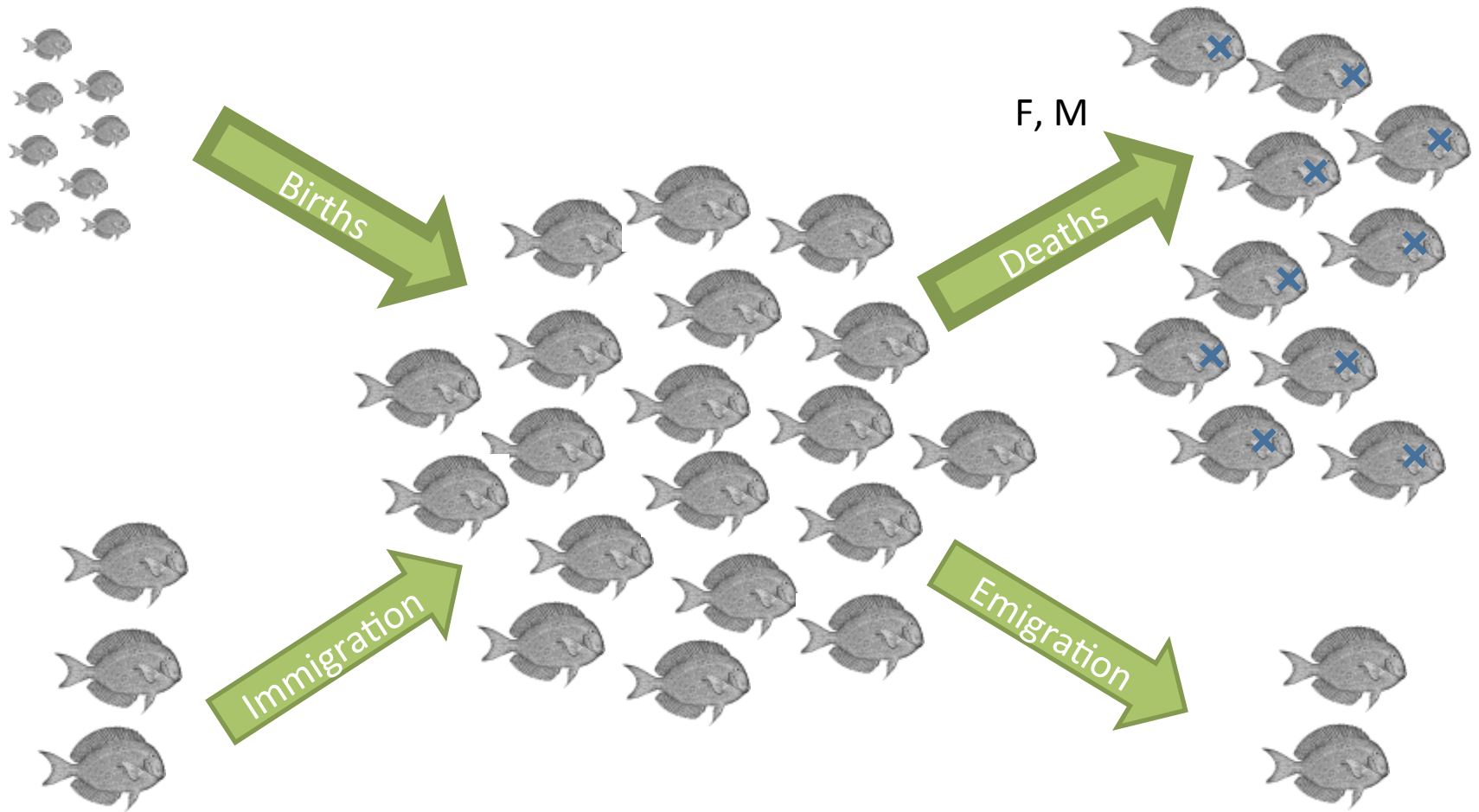
Assessing and managing data-limited fisheries in a huge range of contexts



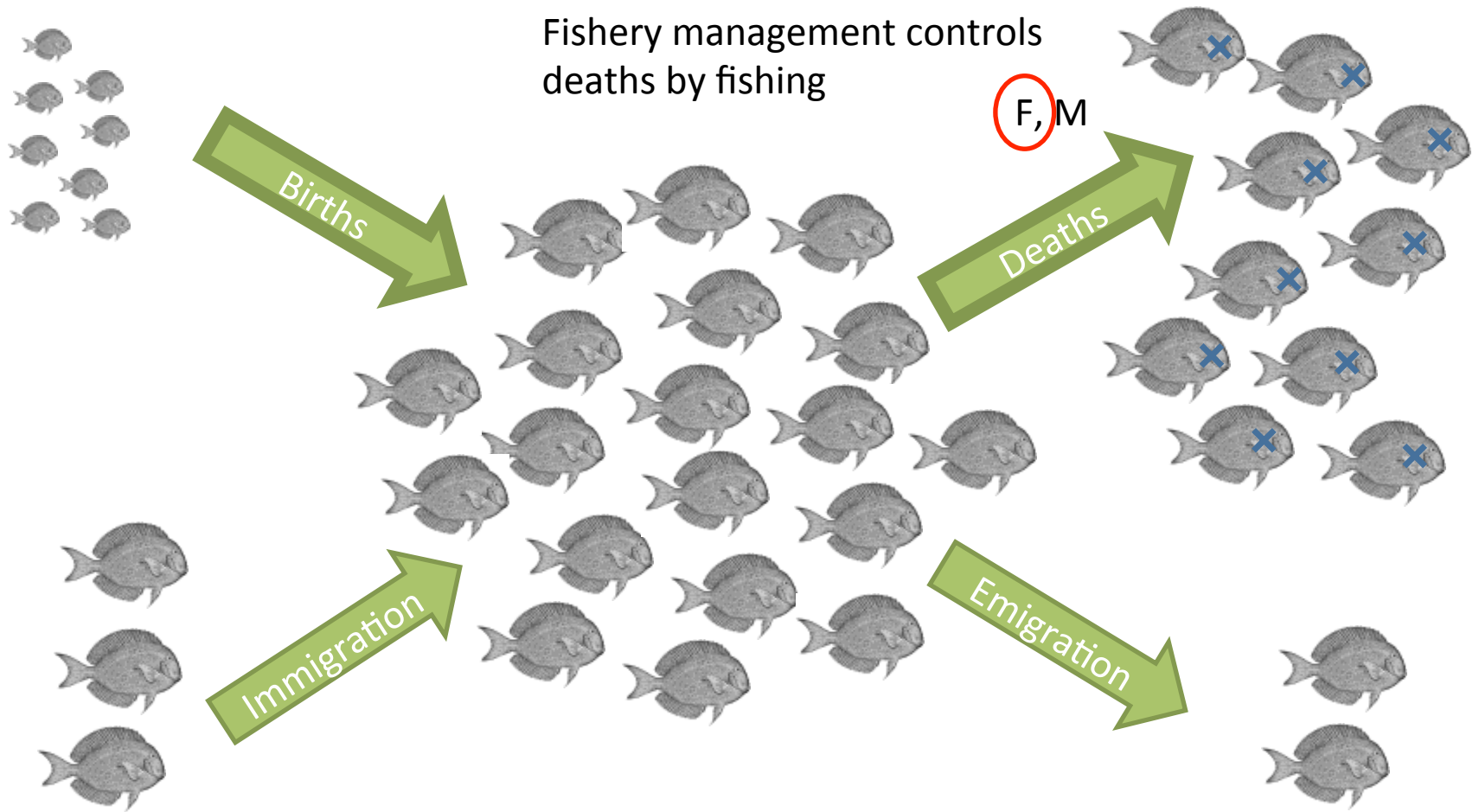
How fish populations work



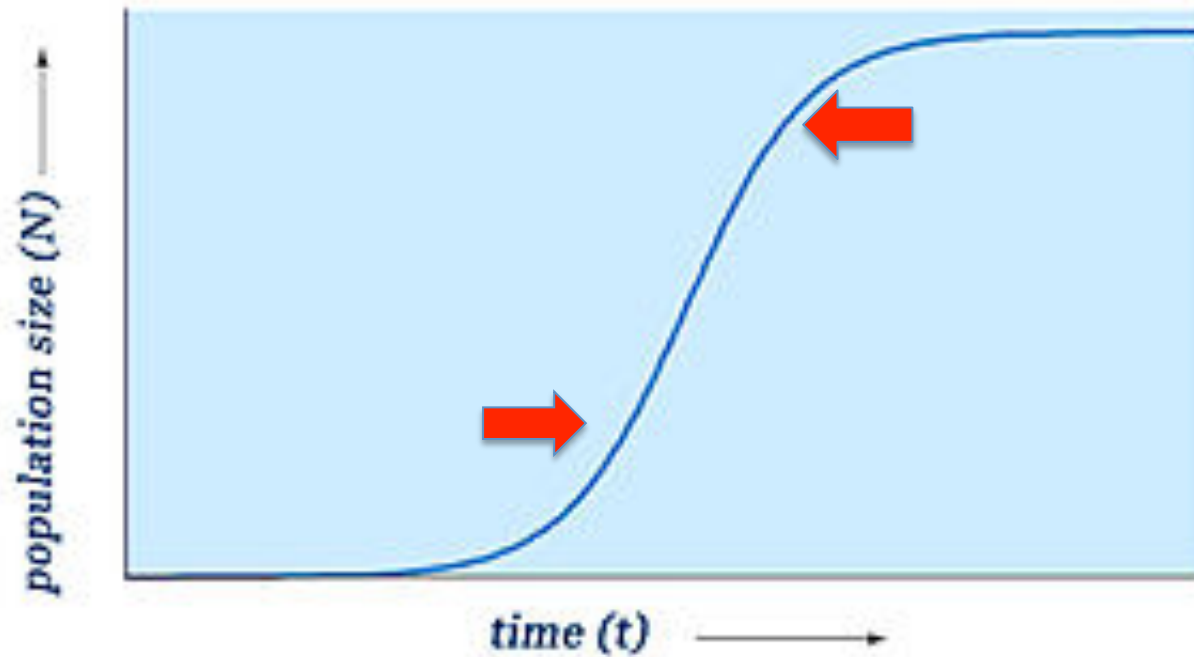
Fishery Management: regulate fishing mortality

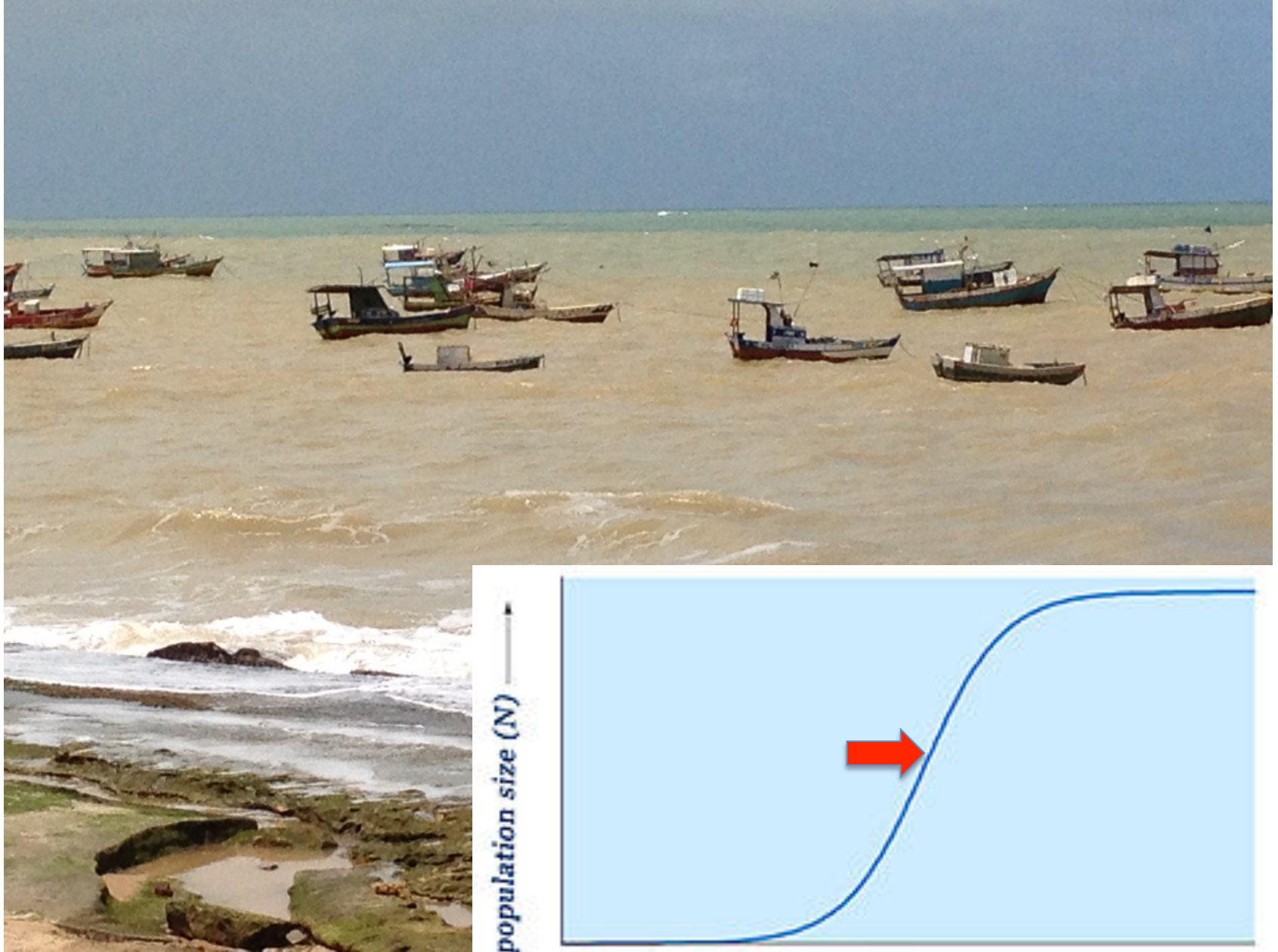


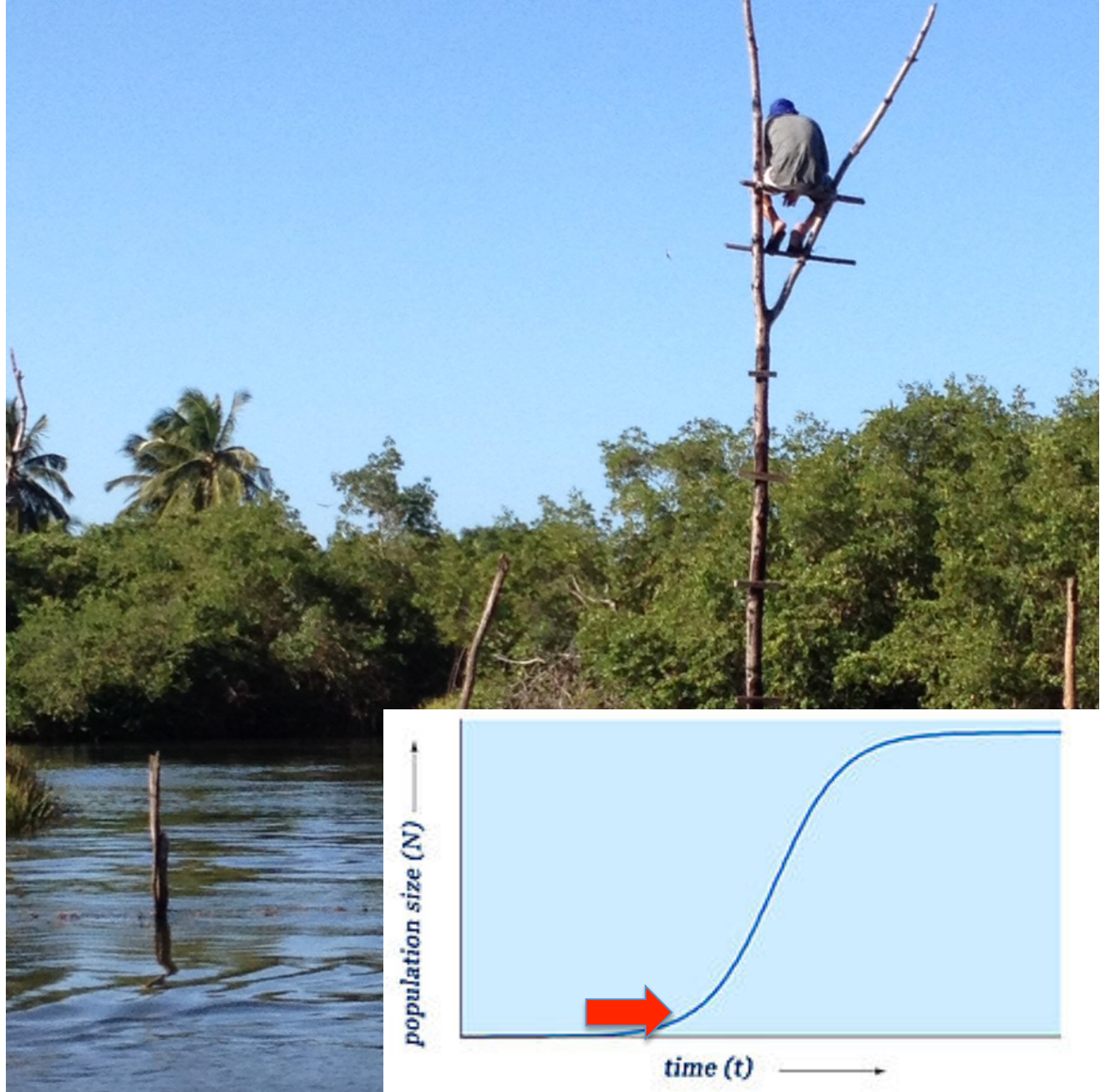
Fishery Management: regulate fishing mortality



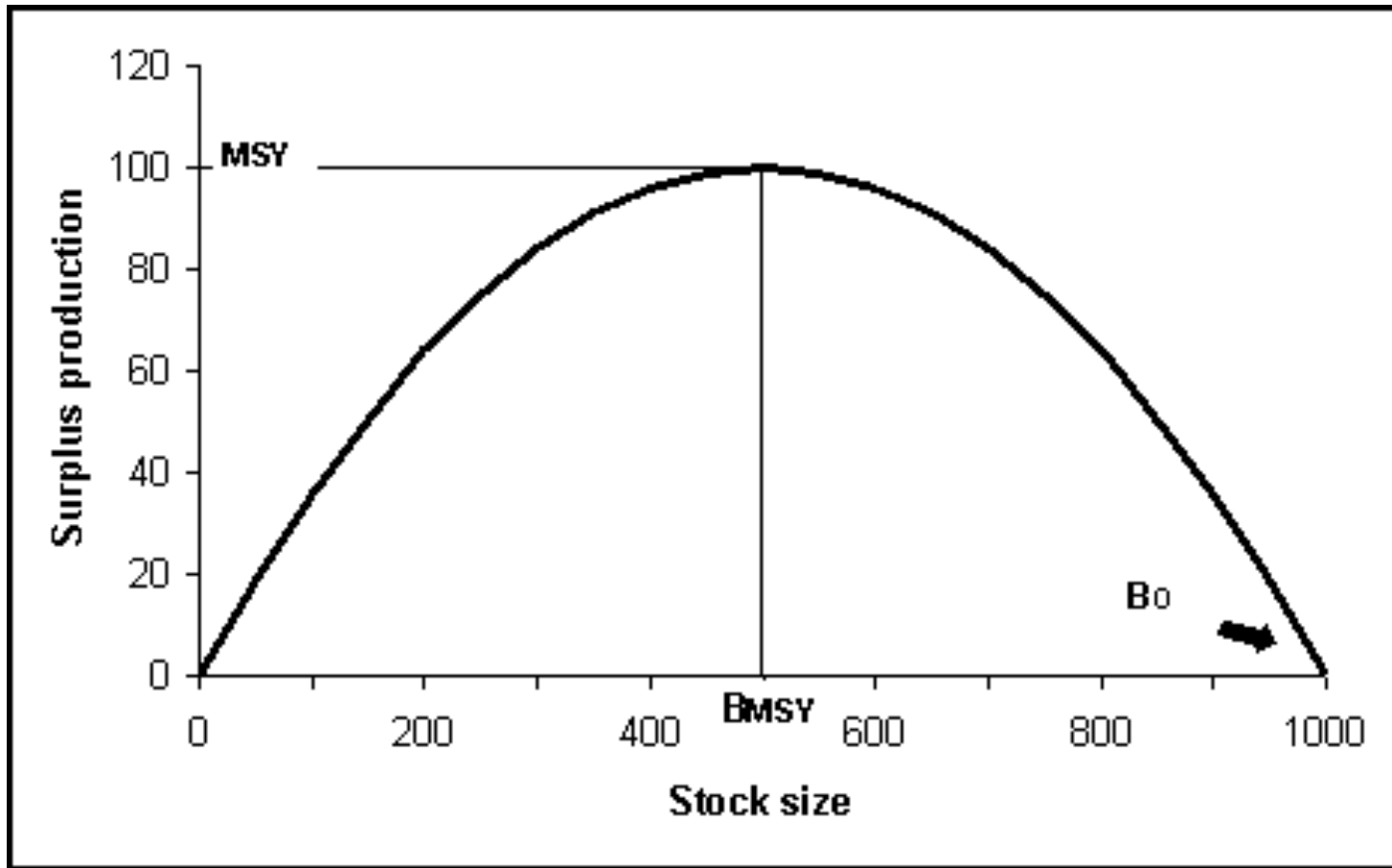
Fish Populations



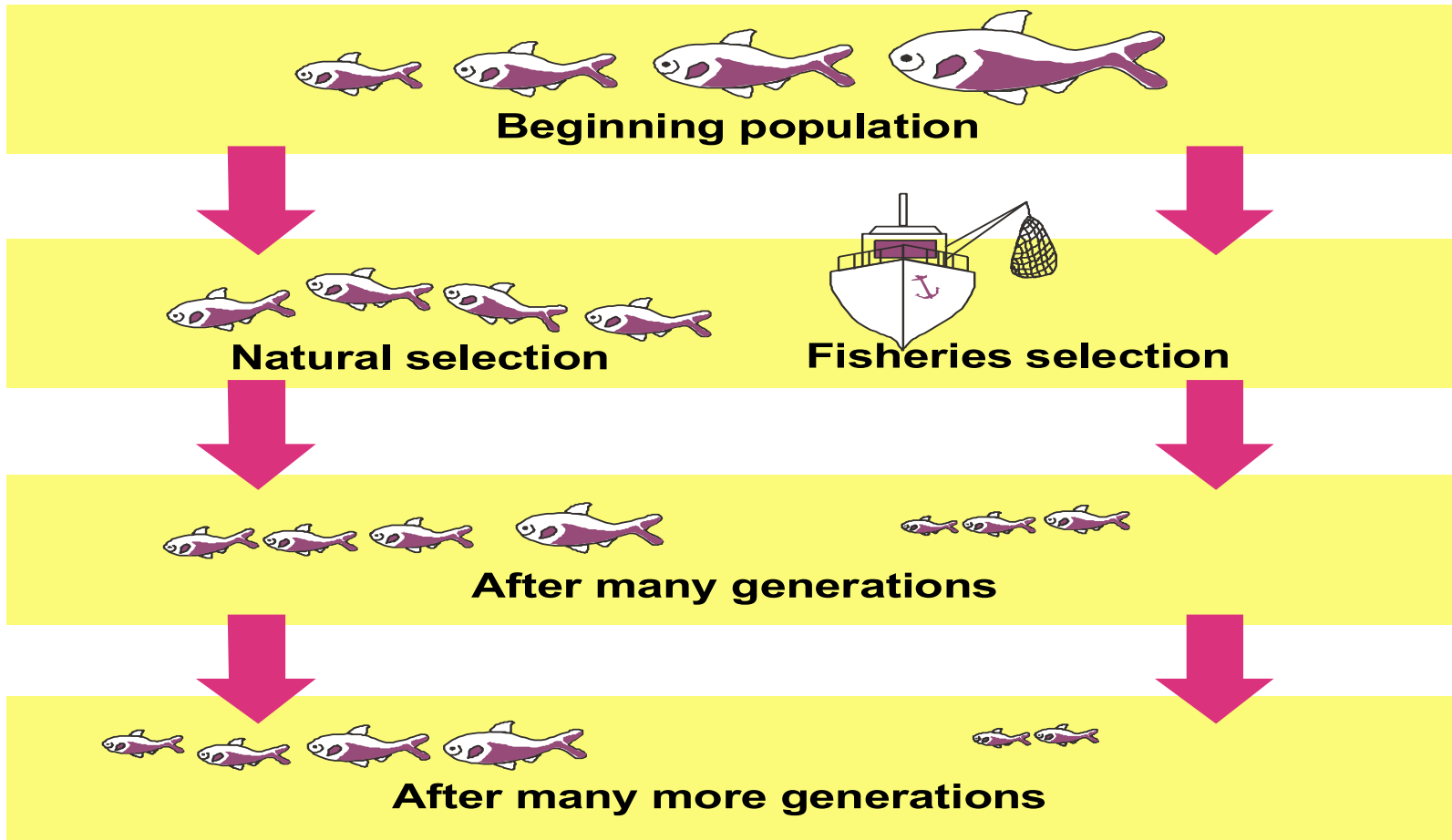




Theory



Long-term impacts of overfishing will decrease the size and abundance of fish in the ocean



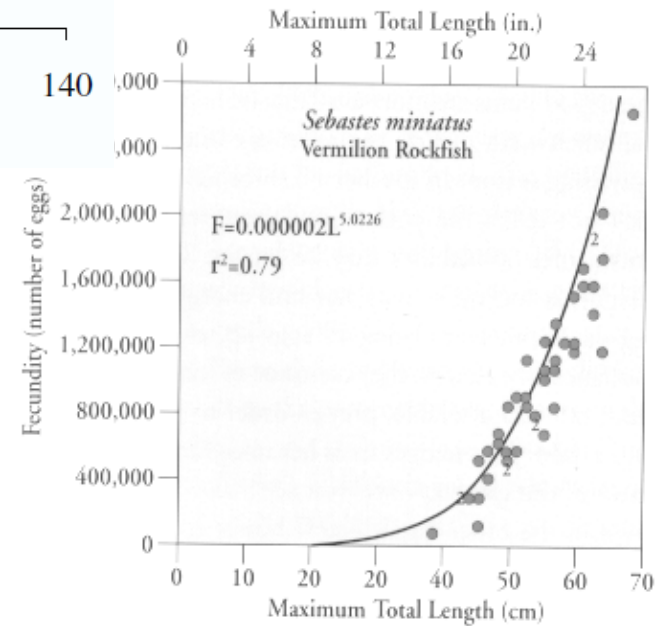
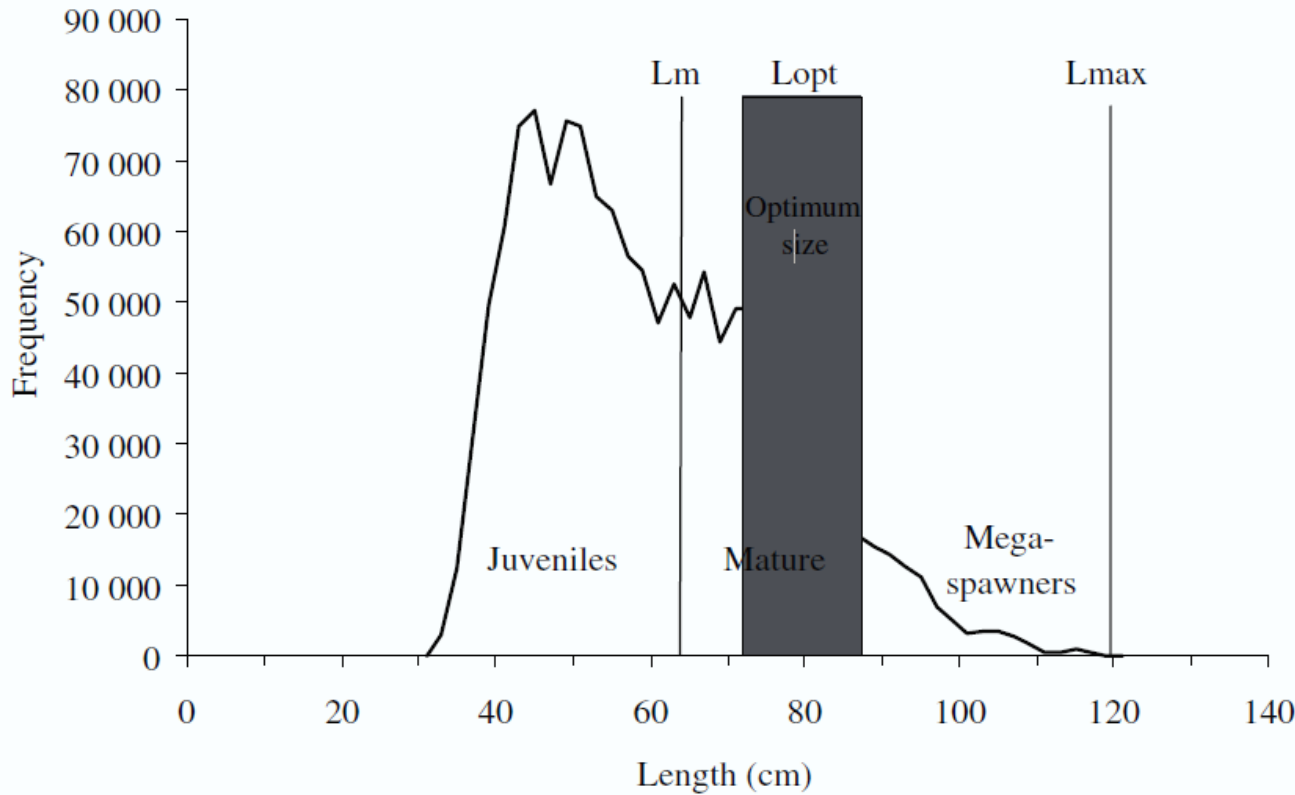
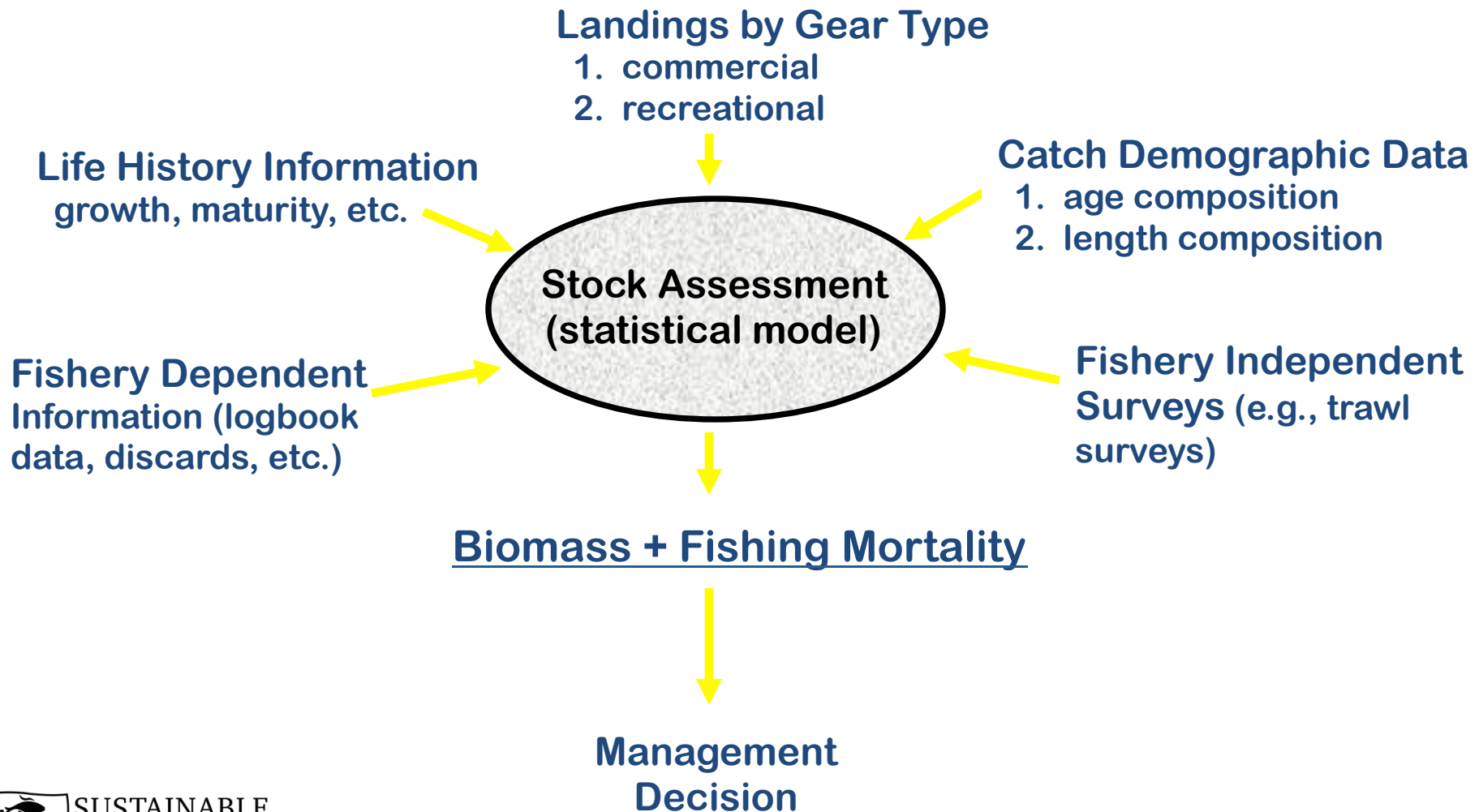


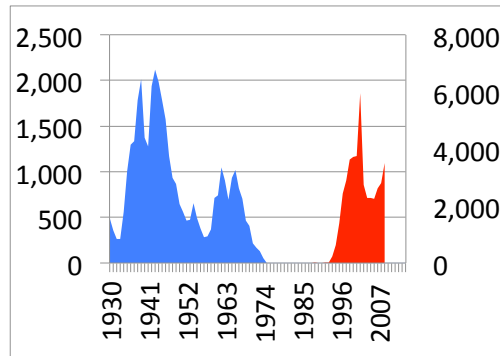
Figure 5.9. The relationship between the egg numbers (F) at particular lengths (L) of vermilion rockfish from southern California. (Data from Love et al. 1990)

Traditional Stock Assessment



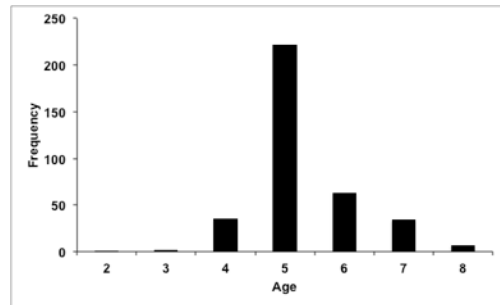
Data Limited Assessment

Catch and
CPUE



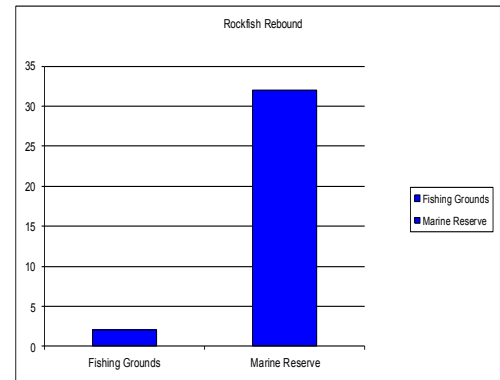
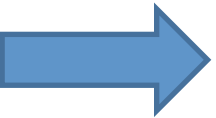
AND/OR

Length
Composition

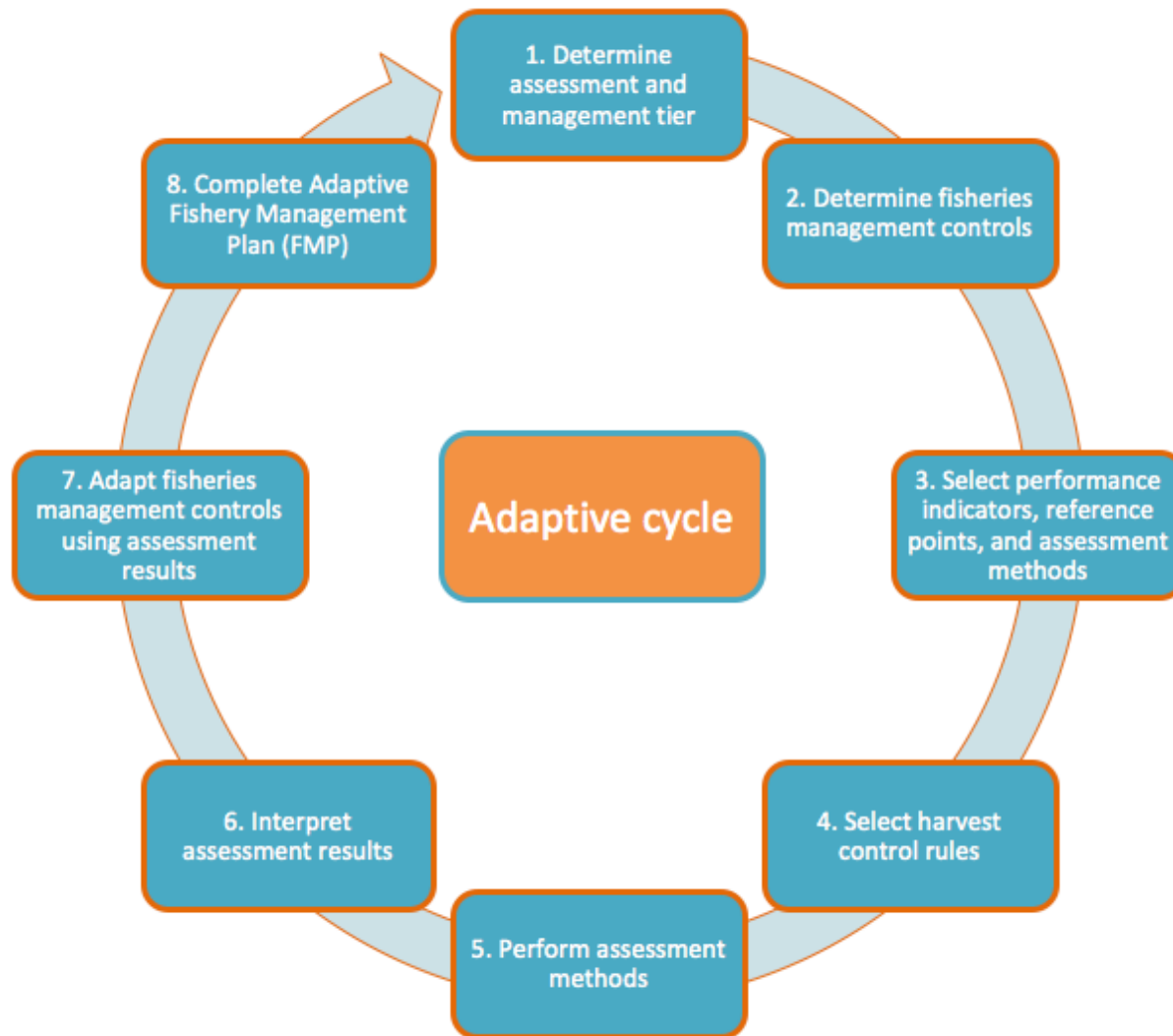


AND/OR

Underwater
Visual survey



Management Guidance



Thank you!

