

# Moorea LTER

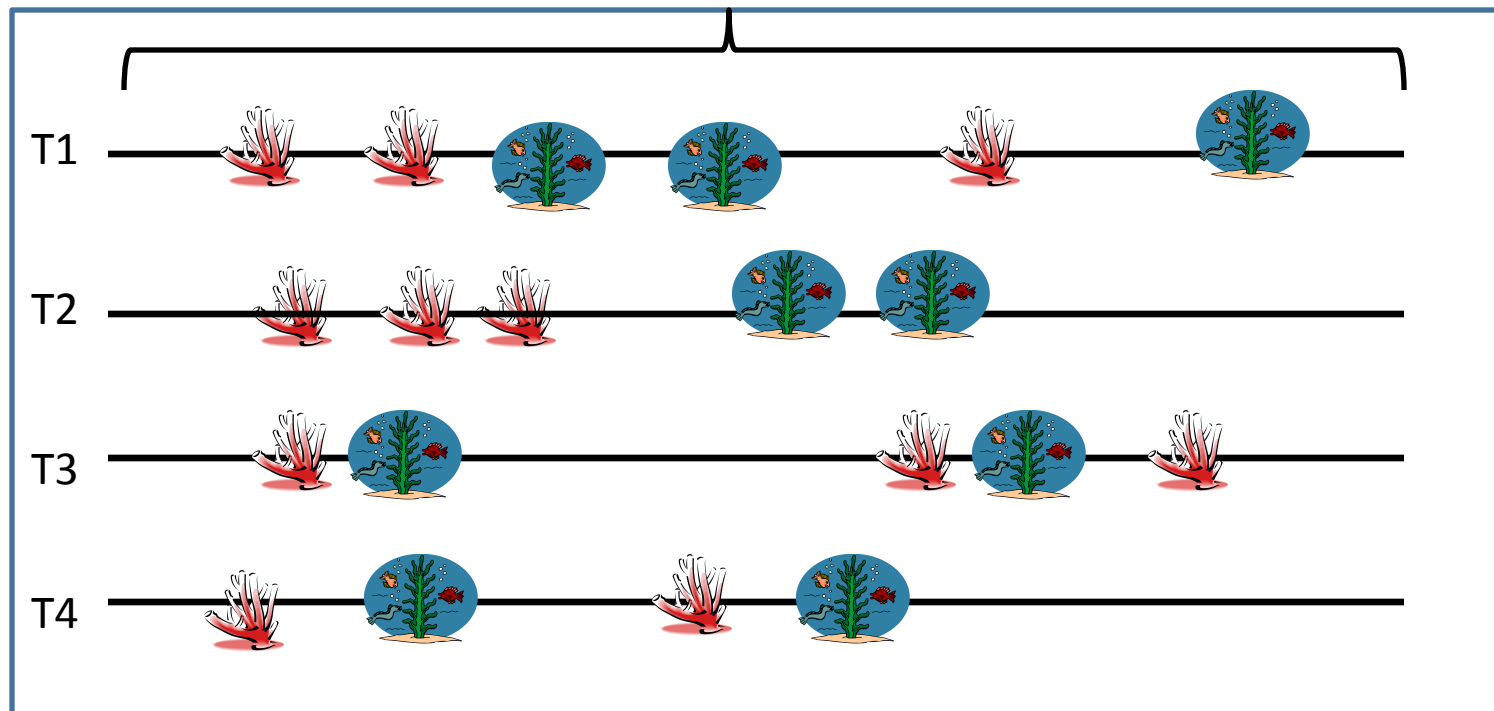
- 6 long term ecological research sites around the island
  - For each of the 3 habitats (fringing, backreef, and forereef)
  - For a total of 18 sites around the island
- Annual fish surveys and coral cover are done for each of the sites
  - Transects at each site are permanent (i.e., same transects are observed from one year to the next)



# Coral/turf/macroalgal cover

- Within each site, there are 4 transects (parallel to shore)
- Each transect is 50m long
- Photoquadrats of 0.5m x 0.5m are placed on the transect
- 200 random dots are placed on each quadrat and classified as a specific substrate (e.g., coral, turf, macroalgal, etc.)

50m

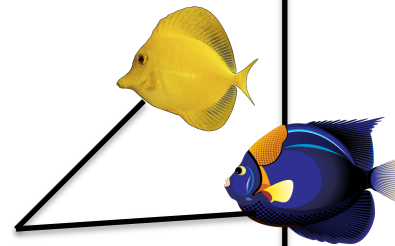


# Fish surveys

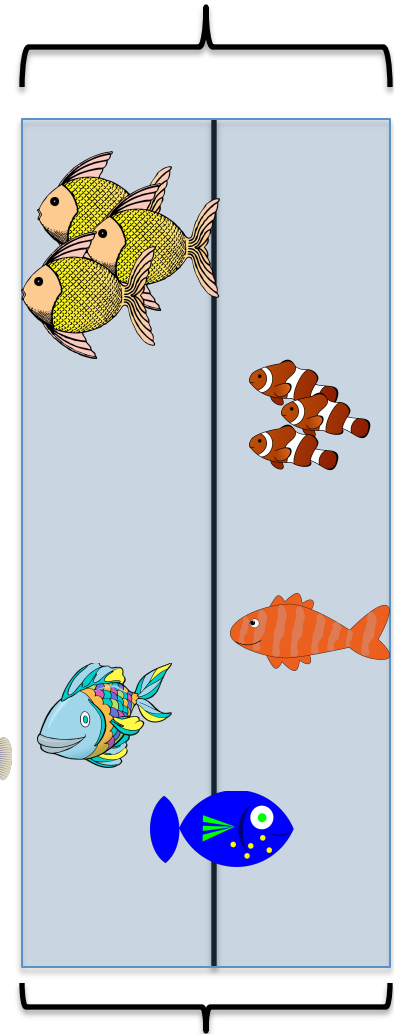
- At each transect, all fish within a 5 meter band along the transect is counted and sized
- Biomass is estimated afterwards using standard fish-length relationships
- The side picture depicts what happens along 1 transect
- Total area: 250 m<sup>2</sup>

Not Counted because  
outside of transect band

Transect: 50 m



Counted



2.5m on either  
side of transect:  
5m band total