



HOOK AND LINE SURVEYS

We collect fish data through the help of volunteer anglers aboard chartered fishing boats to *catch and release* fish. We divide the study area into 500m x 500m grid cells. Local fishing knowledge helps ensure grid cells are placed in locations where fish are commonly caught in rocky habitats. On a survey day, five cells are randomly selected and anglers fish using standardized gear for a fixed amount of time. All fish caught by the volunteers are measured and released. Hook-and-line surveys enable us to have fish in hand to take accurate length measurements. We will look at differences in average fish length **before** and **after** the reserve is closed to fishing, both **inside** the reserve and **outside** in the comparison areas (monitoring sites open to fishing). By sampling over time, we can determine whether fish sizes as well as catch rates (catch per unit effort) are changing due to cessation of fishing.

Data collected:



Fish



Oceanography



Tool Usage	
Depth Range	10-40m
Habitats	Rocky reefs
Sampling Limitations	Calm sea states, availability of volunteer anglers

