

SUMMARY OF TECHNIQUE

Training

1. Divers are trained using sticks, fish models, live and/or dead fish to estimate length underwater until (on the basis of distribution with a frequency of 50), the difference between the observed and expected distributions as revealed by the difference between D_{max} and D_{crit} , using the Kolmogorov-Smirnov test, is greater than 0.2.

Reef Surveying

1. Locate four or five 'habitat' areas on reef on basis of coral survey work.
2. Divers test current - especially on bottom.
3. Divers enter water and following intensive search pattern of swim, swim together and with current for duration of one tank of air or 30 minutes recording end of each 10 minute interval.
4. Coral trout are classified into 10 cm size classes and mean of pair of dives is taken as population size structure for that habitat.
5. Population size structure in Capricorn-Bunker area is compared with 'unfished' area at Heron Reef using Kolmogorov-Smirnov test. As a secondary consideration, mean number of trout are compared using median test.
6. Under the constraints of decompression tables, and since this survey work usually requires diving to 60' each diver can only dive twice per day.