RPC (Random Point Contact) Protocol

General Notes

Random Point Contact surveys are conducted at eleven different sites on the north shore of Santa Cruz Island (35°5'N: 119°45'W) annually between the months of August and January. Each site has 40 m transects at 10, 20, and 30 ft, characterized by different habitat zones, for a total of three transects per site. Note that sites and sampling were variable prior to 1991.

RPC Sampling

The purpose of the Random Point Contact sampling is to determine the percentage cover of benthic substrates along the Santa Cruz Island transects. Before surveying, an observer runs a 40 m transect tape parallel to shore at one of the three depth intervals (~5, 10, and 15m). There are 80 random point positions established on the datasheet. He/she swims the length of the transect and randomly selects four replicates on a 1 m imaginary line perpendicular to the meter tape at the established point. He/she then records the substrate type at those points (n=320 points per transect).

Materials Needed:

Transect Tape Dive Slate Appropriate Data sheets

RPC Species List

CODE

Below is the current list of the substrate and associated code recorded in the RPC sampling. Additional substrates may be added as they are encountered.

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| CODE | SUBSTRATE TYPE |
|----------------------------------|---|
| A Ac B Bry Clad Cod Colp Cory | Anemonies Articulated Corralines Bare Rock Bryozoan Brittle Star Cladophora Codium spp. Colpomenia Corynactis |
| Cory Cy D Dic E Ec Egr F Gel Gig | Cystoseira spp. Desmarestia spp. Dictyota/Dictyopteris Eisenia Encrusting Corralines Egregia Fauchea/Fryella Gelidium spp. Gigartina spp. |

Gn Gelidium nudifrons
Gr Gelidium robustum

Gor Gorgonian
Gt Green Turf
H Halidrys
Irid Iridaea

L Laurencia spp.
Lf Laminaria farlowii
M Macrocystis

P Pachythyone rubra

Ploc Plocamium
Pt Pterogophora
Pri Prionitis
R Rhodymenialis
RI Rhodymenia like

Rt Filamentous Red Algal Turf

S Sand

Sg Sargassum spp.
Sr Shell Rubble

Ss Sciadaphycus stellatus

T "Turf" (defined as diatom algal mats, cobble, and miscellaneous sessile

invertebrates)

U Urchin W Tube Worm XX Unknown