

Water Quality Monitoring in the Bay of Panama with EXO 2 sonde

Methods

Sampling is carried out approximately weekly (although during the first year there were many gaps) starting at approximately 9am until approximately 2pm.

Measurements are made at approximately 5m depth intervals. However, the deflection of the sonde in the water by ocean currents means that very often the depths are different from that planned. In the analysis, depths are grouped into 0-2.5m, 2.51-7.5m, 7.51-12.5m, etc. intervals.

All sensors are calibrated after each sampling trip according to YSI standard recommendations.

Locations

Location	Latitude	Longitude
Site 1	8.64572	-79.04811
Site 2	8.70830	-78.96425
Site 3	8.69824	-79.16080
Site 4	8.73563	-79.26593
Site 5	8.76117	-79.36510
Site 6	8.78464	-79.46614
Site 7	8.85513	-79.46937

Parameters

bgarfu	Blue-Green Algae (RFU)
bgaug	Blue-Green Algae ($\mu\text{g/l}$)
chlrfu	Chlorophyll (RFU)
chlrug	Chlorophyll ($\mu\text{g/l}$)
cond	Conductivity (mS/cm)
condnlf	Non-linear temperature compensation (mS/cm)
condsp	Specific Conductance (mS/cm)
fdomqsu	Fluorescent dissolved organic matter (QSU)
fdomrfu	Fluorescent dissolved organic matter (RFU)
odo	Optical Dissolved Solids (mg/l)
odopsat	Optical Dissolved Solids (% saturation)
ph	pH
sal	Salinity (ppt)
tds	Total Dissolved Solids (g/l)
tss	Total Suspended Solids (mg/l)
turb	Turbidity (FNU)
wt	Water Temperature (C)