

Abstract

Temperature loggers were deployed at various monitoring sites off the upper Florida Keys. Hobo Pendant® loggers were secured to the substrate at a site and were programmed to record temperature every thirty minutes. In most cases loggers were exchanged every 3-4 months. Gaps in the data exist where loggers failed or could not be recovered. Data collection began in 2003 and is ongoing however the time ranges vary at each site. Sites include fore reef and patch reef sites from as far north as Turtle Rocks to as far south as Little Conch Reef.

Methods

Water temperature loggers were deployed at various reef sites off the upper Florida Keys where *Acropora* spp. related research activities (monitoring or experiments) were conducted. The loggers were one of two types: either Stowaway TidbiT (model: TBI32-20+50; Range -20°C to 50°C; Accuracy: ± 0.5°C from 0° to 50°C; Resolution: 0.02°C at 25°C) or HOBO Pendant (UA-001-64; Range: -20° to 70°C; Accuracy: ± 0.53°C from 0° to 50°C; Resolution: 0.14°C at 25°C)- both made by Onset Computer Corporation. Loggers were secured to the substrate out of direct sunlight but in an area with adequate water flow and were set to record the ambient water temperature at 30 minute intervals.

Data Fields:

Field Name	units (if applicable)	Description
ReefName		Name of site where logger was deployed
Site Code		Abbreviation of site name that corresponds to the specific logger location specified in accompanying table
Start Date		Earliest day where temperature data are available (range may not be continuous)
End Date		Latest day where temperature data are available (range may not be continuous)
Days with data		Number of days between start and end date where temperature data are available
Depth(m)	meters	Approximate depth in meters of the deployed temperature logger
Lat	decimal degrees	Approximate Latitude where the temperature logger was deployed during the date range listed
Lon	decimal degrees	Approximate Longitude where the temperature logger was deployed during the date range listed
DateTime EST	MM/DD/YYYY HH:MM:SS	Eastern Standard Time zone date and time stamp (24 hour format) of logged temperature
Temp(C)	degrees Celsius	Temperature in degrees Celsius recorded by the logger
Logger Type		Either Stowaway TidbiT (model: TBI32-20+50; Range -20°C to 50°C; Accuracy: ± 0.5°C from 0° to 50°C; Resolution: 0.02°C at 25°C) or HOBO PENDANT (UA-001-64; Range: -20° to 70°C; Accuracy: ± 0.53°C from 0° to 50°C; Resolution: 0.14°C at 25°C)- both made by Onset Computer Corporation

Files included

- Inventory_Sites_Dates.xls: provides the location coordinates and the dates of data coverage for each site
 - KML file showing location of each site
- Individual .csv files containing all temperature data for each site:

Aquarius AQ-A.csv

Carysfort CF-A.csv

Carysfort CF-B.csv

Conch Shallow CS-A.csv

CRF Nursery CRF-A.csv

Elbow EL-A.csv

Elbow EL-B.csv

French FR-A.csv

French FR-B.csv

French FR-C.csv

Grecian GR-A.csv

Horseshoe HS-A.csv

KeyLargoDryRocks KL-A.csv

KeyLargoDryRocks KL-B.csv

KeyLargoDryRocks KL-C.csv

LittleConch LC-A.csv

Molasses ML-A.csv

Molasses ML-B.csv

Molasses ML-C.csv

NorthDryRocks NDR-A.csv

NorthDryRocks NDR-B.csv

NorthNorthDryRocks NNDR-A.csv

Pickles PI-A.csv

Pickles PI-B.csv

Pickles PI-C.csv

SandIsland SI-A.csv

TavPatchA TV-A.csv

TurtleRocks TR-A.csv

WhiteBank WB-A.csv

WhiteBank WB-B.csv