Abstract

Temperature loggers were deployed at various monitoring sites off the upper Florida Keys where other ecological studies were underway, most focused on aspects of *Acropora* spp. status or ecology. Hobo Tidbit® or 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 were lost. Data collection began in 2003 and is ongoing at certain sites. The time ranges vary at each site. Sites include reef tract 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 four 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), HOBO MX TidbiT 400 (model: MX2203; Range -20°C to 70°C; Accuracy: ± 0.2°C from 0° to 70°C; Resolution: 0.01°C at 18°F), HOBO MX TidbiT 5000 (model: MX2204; Range -20°C to 70°C; Accuracy: ± 0.2°C from 0° to 70°C; Resolution: 0.01°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)- all 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.

Files included:

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

AAA AA-A.csv
Aquarius AQ-A.csv
Carysfort CF_DRM.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
Elbow EL-C.csv
French FR-A.csv
French FR-B.csv
French FR-C.csv
Grecian GR-A.csv
Grecian GR-B.csv
Grecian Rocks GR_DRM.csv
Horseshoe HS-A.csv
Horseshoe HS-B.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 NN-A.csv
NorthNorthDryRocks NNDR-A.csv
Pickles PI_DRM.csv
Pickles PI-A.csv
Pickles PI-B.csv
Pickles PI-C.csv
Pickles PI-D.csv
SandIsland SI-A.csv
SandIsland SI-B.csv
SouthCarysfort SC-A.csv
TavPatchA TV-A.csv
TurtleRocks TR-A.csv
WhiteBank WB-A.csv
WhiteBank WB-B.csv

Data Fields:

Field Name	units (if applicable)	Description
SiteName		Name of site where Logger was deployed
Site		Abbreviated Site name that typically corresponds to project-specific site labels.
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	MM/DD/YYYY HH:MM:SS	Date and Time stamp of logged temperature
Temp©	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), HOBO MX TidbiT 400 (model: MX2203; Range -20°C to 70°C; Accuracy: ± 0.2°C from 0° to 70°C; Resolution: 0.01°C at 18°F), HOBO MX TidbiT 5000 (model: MX2204; Range -20°C to 70°C; Accuracy: ± 0.2°C from 0° to 70°C; Resolution: 0.01°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)- all made by Onset Computer Corporation