

## **DATASET CONTACT**

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## **DATASET INFORMATION**

**Title:** Marine Center Environmental Monitoring Station Data

**Short Title:** Marine Center

**Data Type:** Revision

**Abstract:**

The data set from the Marine Center includes meteorological and hydrographic data from 2000 to present. Years 2000 to 2007 includes daily, hourly, and minute data. Years 2008 to 2012 include daily, hourly, and 15 minute data. Years 2013 to present have 15 minute data. The parameters included in this dataset are wind direction, wind speed, air temperature, air pressure, rainfall, relative humidity, solar radiation, water temperature, water height, salinity, specific conductivity, dissolved oxygen, and chlorophyll.

**Purpose :**

The objective of the monitoring stations is to record general meteorological and hydrographical conditions over a short and long term period. The monitoring stations are meant to aid researchers with any projects and or research they may be conducting in the area. The stations are also a tool that the public can use to see weather and water conditions.

**Supplemental Information - Data Parameters and Units:**

- Wind Direction °
- Wind Speed m-s
- Wind Gust m-s
- Air Temperature °F/°C
- Barometric Pressure hPA
- Relative Humidity %
- Global Solar Radiation
- Photosynthetic solar radiation
- Rainfall mm hr
- Water Temperature °F/°C
- Water Height ft/m
- Specific COnductivity mS/cm
- Salinity psu
- Dissolved Oxygen %/ mg/L
- Chlorophyll ug/L

**Supplemental Information - Methods:**The Marine Center Station is located on LUMCON's back dock at 29°15.200'N 90°39.800'W. The hydrographic instrument is deployed off of the south side of the dock in a PVC tube. This instrument sits 18 inches above the sediment. Meteorological instruments are located on a tower attached to the north east corner of the dock. Data has been collected every 15 minutes from 2013 to the present. Years 2000-2007 daily, hourly, and minute data were collected. Years 2008-2012 daily, hourly, and 15 minute data were collected.

**Supplemental Information - Instruments:**

- Li-200R (LiCor)
- Li-190R (LiCor)
- WXT520 (Vaisala)
- EXO2 Sonde (YSI)
- CR1000 Datalogger (Campbell Scientific)

**Supplemental Information - Sampling Scales and Rates:** The instrument is deployed at one fixed location and collects data every 15 minutes.

**Supplemental Information - Error Analysis:**Raw real-time data are sent to GCOOS where they perform an 8 step QA/QC procedure, which is outlined in this link [http://data.gcoos.org/certification/GCOOS\\_DMDC\\_DMS.pdf](http://data.gcoos.org/certification/GCOOS_DMDC_DMS.pdf) All meteorological instruments are changed out and calibrated once a year. Hydrographic instruments are changed out and calibrated once a month. All stations are monitored daily so that if an observation is made that does not correlate with current conditions that instrument will be taken down and calibrated.

**Supplemental Information - Provenance and Historical References:**None

**TOPIC CATEGORY KEYWORDS**

Oceans, Climatology/Meteorology/Atmosphere, Environment

**DATA EXTENT**

**Spatial Extent:** 29.254244 -90.663508

**Time Period Description:** Ground Condition

**Start Date:** 10/2/2000

**End Date:** Present

**DISTRIBUTION INFORMATION**

**Data Transfer Format (File Type):**csv

**File Decompression Technique:** zip file

**TRANSFER OPTIONS**

**Transfer Size:**

**URL:**

**DISTRIBUTION CONTACT**

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**Role:** Originator

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**METADATA CONTACT**

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