South Florida Coastal Oceanographic Database

SOUTH FLORIDA REGIONAL OBSERVING SYSTEM (SF-ROS)


NOAA / AOML – UM / CIMAS
Miami, FL

http://www.aoml.noaa.gov/sfros/database/
Oceanographic studies of Florida Bay and the connecting waters of the south Florida coastal region including the Florida Keys and the southwest Florida shelf have been underway since December 1995 for the purpose of describing and understanding the circulation processes on regional and sub-regional scales and the influence of remote sources of water mass intrusions.
The South Florida Coastal Oceanographic Database (SFCOD) is undertaken as part of the collaborative South Florida Program between NOAA/AOML CIMAS and UM/RSMAS.

- The purpose is to organize historical and ongoing data being collected from the South Florida coastal region into a user friendly web accessed data base to enhance and encourage research efforts to better describe, understand and model the oceanographic processes, their interactions and influence on water quality and living marine resources.

- The Database is organized by projects, which are searchable by data types: moored time series, shipboard, drifters, satellite imagery and linked to relevant atmospheric and other coastal data sets such as coastal sea level and river discharge.

- To date SFCOD covers the 19 year period from April 1989 to September 2008, but is an ongoing process an updated following each new mooring deployment period.

http://www.aoml.noaa.gov/sfros/database/
South Florida Coastal Oceanographic Database

Click the image for current mooring data

Tom Lee, Nelson Melo (Contacts)

http://www.aoml.noaa.gov/sfros/database/
The **study area** of the NOAA-funded South Florida Program for long-term measurement of currents, temperature, salinity and bottom pressure with moored arrays and research vessel surveys is shown in the Figure.
OCEANOGRAPHIC STATIONS

- REAL-TIME C/T/Optics
- REAL-TIME C/T/Currents
- REAL-TIME C/T/Optics/Currents/+ 
- C/T/Currents
- C/T

- REAL-TIME CMAN/SeaKeys/COMPS (NOAA/FIO/USF)
- quarterly DRIFTER DEPLOYMENT SITE

SURVEY TRACKS

- quarterly REGIONAL TRACK and associated discrete sample locations
- bimonthly BISCAYNE BAY TRACK
- bimonthly FLORIDA BAY TRACK

http://www.aoml.noaa.gov/sfros/database
Current Mooring Stations

South Florida Coastal Oceanographic Database

South Florida Program
1. Fi Bay Inner Basin
   - Transport and Exchange
2. NCORe
3. SEFCAR/OPRE

Current Moorings

Related Projects
- NOAA's South Florida Ecosystem Research and Monitoring Program

Related Links
- Publications
- Posters-Presentations-Movies
- Photos

Click the image for current mooring data

Tom Lee, Nelson Melo (Contacts)

http://www.aoml.noaa.gov/sfros/database/
Mooring Stations

http://www.aoml.noaa.gov/sfros/database/
Mooring Data

Oceanographic Mooring
ADCP B (SW)
Data Access Page

Current, temperature and salinity data

Mooring Station
Latitude: 25.17
Longitude: -81.65
Water Depth: 13 m

Instruments:

<table>
<thead>
<tr>
<th>Instrument Type</th>
<th>Instrument Depth</th>
<th>Name</th>
<th>Parameters Recorded</th>
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</thead>
<tbody>
<tr>
<td>ADCP</td>
<td>12.5 m</td>
<td>RDI Workhorse Sentinel Acoustic Doppler Current Profiling (ADCP)</td>
<td>Current velocity, Current Direction, Temperature</td>
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<tr>
<td>MicroCAT</td>
<td>5 m</td>
<td>Seabird MicroCAT SBE37</td>
<td>Temperature, Conductivity (Salinity)</td>
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Data
Data edited for data spikes, calibrated and checked for time and geographic continuity
40 hour low pass (de-tided) filtered data
Current components: u = toward east; v = toward north

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Deployment Date</th>
<th>Recovery Date</th>
<th>Data Type</th>
<th>Data QC</th>
<th>Data File Type</th>
<th>Download Data</th>
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<tbody>
<tr>
<td>ADCP</td>
<td>Sep 22 1997</td>
<td>Apr 02 1998</td>
<td>Current Velocity (mag, dir, u, v), Temperature</td>
<td>Final</td>
<td>ASCII</td>
<td>30 min, 40h low pass, Plot</td>
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<tr>
<td>MicroCAT</td>
<td>Sep 22 1997</td>
<td>Apr 02 1998</td>
<td>T, S</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

http://www.aoml.noaa.gov/sfros/database/
Mooring Data

http://www.aoml.noaa.gov/sfros/database/

% NOAA SF-ROS PROCESSED MOORED ADCP DATA
% This data set is a product of NOAA/AOML and UN/FSM8 located in Miami, Florida.
% Data contained in this file are intended for use with SoRFa-WCCM efforts and for
% general scientific interest. NOAA/AOML and UN/FSM8 cannot be held liable for
% the use of these data in any other manner.
% -----
% FILE_NAME = SW_ADCP_B_dep01.asc
% FROM_RAW_FILE = SW_ADCP_B_dep01.net
% DATA_REVISION = 960201B
% CONTACT_INFO = ryan.smith@aoml.noaa.gov
% -----
% MOORING_NAME = Southwest_ADCP_B
% MOORING_LATITUDE = 25.1679
% MOORING_LONGITUDE = -81.4933
% MEDIAN_WATER_DEPTH = 10.5m
% INSTRUMENT_TYPE = RDI 1200kHz Workhorse ADCP
% DATA_TYPE_1 = water_velocity_towards
% DATA_TYPE_2 = water_temperature
% -----
% DEPLOYMENT_NUMBER = 01
% DEPLOYMENT_START = 2100z_22SEP1997
% DEPLOYMENT_STOP = 1600z_02APR1998
% VELOCITY_UNITS = cm_per_sec
% TEMPERATURE_UNITS = deg_C
% DIRECTION_REFERENCE = true
% SAMPLE_INTERVAL = 30min
% SURFACE VELOCITY_DATA_DEPTH = 1.5m_below_sea_surface
% BOTTOM VELOCITY_DATA_DEPTH = 2.5m_above_sea_floor
% SURFACE TEMPERATURE_DATA_DEPTH = 0.4m_above_sea_floor
% BOTTOM TEMPERATURE =

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<th>v_m</th>
<th>t_m</th>
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</tbody>
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South Florida Program (SFP)

South Florida Coastal Oceanographic Database

South Florida Coastal Oceanographic Database

Principal Investigators:
Dr. Libby Johns, Dr. Thomas N. Lee, Dr. Peter Ortner

Participating Institutions:
University of Miami / RSMAS, NOAA / AOML / CIMAS

Project Dates: April 1989 to present

Click the image for current mooring data

Tom Lee, Nelson Melo (Contacts)

http://www.aoml.noaa.gov/sfros/database/
South Florida Program (SFP)

South Florida Coastal Oceanographic Database
NOAA Home | RSMAS Home

South Florida Program (SFP)
Data

Related Links
Satellite-Tracked
Surface Drifter
Trajectories
Loce Key Real-Time
Oceanographic Buoy
Moser Channel
Oceanographic
Monitoring Station
Monthly Hydrographic
Surveys of Biscayne
Bay and Florida Bay

South Florida Program (SFP)
Florida Bay, SW Florida Shelf and Florida Keys

Project Background

South Florida Program (SFP) – Oceanographic studies of Florida Bay and the connecting waters of the south Florida coastal region including the Florida Keys and the southwest Florida shelf have been underway since January 1995 for the purpose of describing and understanding the circulation processes on regional and subregional scales and influence of remote sources of water mass intrusions. Support has been provided by NOAA COP South Florida Program for long-term measurement of currents, temperature, salinity and bottom pressure with moored arrays Fig.1.

Fig. 1. Mooring locations during the South Florida Program for time series measurement of oceanographic properties such as currents, temperature, salinity, bottom pressure, fluorescence and transmittance. Also shown are CMAN atmospheric stations and shipboard survey tracks.
South Florida Program (SFP) - DATA

South Florida Program Project Data Access Page

South Florida Program Mooring Deployment #5
Dates: Sep 1997 - May 1998

Current and temperature data

For all ASCII data time series data files in this deployment - download .zip file here

Current components - U + toward east; V + toward north

<table>
<thead>
<tr>
<th>Download Data</th>
<th>Mooring</th>
<th>Latitude N</th>
<th>Longitude W</th>
<th>Water Depth</th>
<th>Instr Depth</th>
<th>Instr Type</th>
<th>Deploy Date</th>
<th>Recovery Date</th>
<th>Data Quality</th>
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<td>24 55.78N</td>
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<td>3.3 NWCM 19/21/1997</td>
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<td>25 10.075N</td>
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Moorings:
- TD445997
- Mid-bay
- Start Date YYYYMMDD: 19790221 180000
- End Date YYYYMMDD: 19790401 120000
- Number of points: 768
- Time step for this series (hours): 6.0000
- Rotation: 0.0000
- Latitude (°N): 24.9297
- Longitude (°E): -81.0952
- Water Depth (m): 0.0000
- Instrument Depth (m): 3.0000
- Project Name: FLBAR
- Instrument Type: ncm ncl
- Instrument Serial #: 216
- Processing Level: 40 hour Lowpassed

*** Definitions ***
- Decimal Julian Day = Julian Day + hours/24, referenced to year in first column
- Velocity rotation (if > 0, usually along isobaths) + = degrees clockwise from true north
- Velocity units: cm/sec
- Temperature units: deg C

Data format: year, decimal julian day, u component, v component, temperature

1979 264.7500 -1.98 -0.32 29.70
1979 260.0000 -1.49 -0.18 29.78
1979 266.2500 -0.31 -0.01 29.81
1980 265.5000 -0.89 0.58 29.83
1980 263.7500 -1.56 0.03 29.84
1980 266.0000 -1.85 0.56 29.81
1980 266.2500 -2.12 0.82 29.76
1980 266.5000 -2.60 0.74 29.70
1980 266.7500 -3.21 1.13 29.66
1980 267.0000 -3.37 1.07 29.64
**Florida Bay Inner Basin Transport Study**

**Project Dates:** 2001 to 2007

**Principle Investigators:** Dr. Thomas N. Lee, Dr. Libby Johns, Dr. Peter Ortner

**Participating Institutions:** University of Miami / RSMAS, NOAA / AOML/ CIMAS

**Funding:** NOAA / CiMAS / COP SFP (Contract: NA17RI226)

**Project Background**

In response to the Announcement of Funding Opp Florida Ecosystem Restoration Prediction and Motwo year study of the circulation and exchange pr times and flushing rates within the NE basin of Flo conducted through CIMAS, Task 3, Theme 3: Coa goal was to improve understanding of the e the Everglades as part of Everglades restoration changes in water delivery, with increased fresh Slough would affect salinity variability within Flor quantify the circulation and exchange rates influ regions of the Bay that directly receive fresh wa along the northern border (Fig. 1) and to determine regions, as well as to identify the controlling physi needed to aid evolution and evaluation of hydrod water deliveries.
Click the image for current mooring data

Tom Lee, Nelson Melo (Contacts)

http://www.aoml.noaa.gov/sfros/database/
### NCORE Project Data Access Page

#### Mooring Deployment #1 Time Series Data Files

**Current and temperature data**

- from June 2000 - November 2000

**NECOR data time series data files in this deployment - download .zip file here**

### Data

<table>
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<th>Data Type</th>
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<th>Longitude</th>
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<th>Instrument Type</th>
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<td>2000-06-01</td>
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**Mooring IB:** mooring1

**Mooring Location:** Mooring A

**Start Date YYYYMMDD HHMMSS:** 20000603 000000

**End Date YYYYMMDD HHMMSS:** 20001100 000000

**Number of points:** 1263

**Time step for this series:** 30000 sec

**Sampling:** 0.00005 sec

**Longitude:** -80.3922 deg

**Depth:** 4.10000 m

**Data Quality:** no data after Feb 24

### SEFCAR Project Data Access Page

#### SEFCAR Mooring Deployment #3

**Dates:** Nov 1989 – Apr 1990

**Current and temperature data**

- for all ASCII data time series data files in this deployment - download .zip file here

### Data

<table>
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<th>Data Type</th>
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<td>no data</td>
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<td>2000-06-01</td>
</tr>
</tbody>
</table>

**Mooring IB:** mooring1

**Mooring Location:** Mooring A

**Start Date YYYYMMDD HHMMSS:** 20000603 000000

**End Date YYYYMMDD HHMMSS:** 20001100 000000

**Number of points:** 1263

**Time step for this series:** 30000 sec

**Sampling:** 0.00005 sec

**Longitude:** -80.3922 deg

**Depth:** 4.10000 m

**Data Quality:** no data after Feb 24
South Florida Ecosystem Research and Monitoring Program

South Florida Coastal Oceanographic Database

Related Projects
NOAA's South Florida Ecosystem Research and Monitoring Program

Related Links
Publications
Posters-Presentations-Movies
Photos

Click the image for current mooring data

Tom Lee, Nelson Melo (Contacts)

http://www.aoml.noaa.gov/sfros/database/
Since the South Florida program was first initiated in 1994, NOAA has supported a diverse suite of research, modeling, and monitoring activities focusing on physical oceanography, nutrient inputs and dynamics, water quality, atmospheric science, paleoecology, fisheries and protected resources, and habitat characterization.
Select the desired year and type of survey map from the below drop down menus and click "Get Map!".

Bi-Monthly Surveys of South Florida Coastal Waters

- Standard CTD Station Locations - December 1995 - April 2001
- Standard CTD Station Locations - May 2001 - Present

Monthly Hydrographic Surveys of Biscayne Bay and Florida Bay

- Florida Bay
  - 3003
  - salinity
  - Get Map!
  - [Table listing all survey cruise dates]

- Biscayne Bay
  - 3003
  - salinity
  - Get Map!

Satellite-Tracked Surface Drifter Trajectories

SEAKYES Reports

[Historical C-Man Data Reports]
Monthly Hydrographic Surveys of Biscayne Bay and Florida Bay

Monthly surveys are conducted to study the hydrography and water quality of both Biscayne Bay and Florida Bay. These surveys are conducted aboard the R/V Virginia K, and utilize an underway flow-through system equipped with a Seabird model 21 thermosalinograph, a Seapoint chlorophyll fluorometer, a Seapoint ultraviolet fluorometer, and a Wetlabs
REAL-TIME CURRENTS AND WATER QUALITY MONITORING in the Florida Keys National Marine Sanctuary (FKNMS)

Data

http://www.aoml.noaa.gov/sfros/database/
Drifter Trajectories

South Florida Drifter Trajectories

As part of NOAA’s South Florida Ecosystem Research and Monitoring Program, the Atlantic Oceanographic and Meteorological Laboratory (AOML) and the Rosenstiel School of Marine and Atmospheric Science (RSMAS) deploy 200-300 drifters in a bimonthly cycle. These oceanic drifters are used to monitor transported flow patterns of ocean currents in real-time. Deployments are typically made at the mouth of the Ganges River near New Orleans, Louisiana, or off the Dry Tortugas, and at Biscayne Bay near Miami. Drifter velocity data from these drifters have been collected since the mid-1990s. Active and historical drifter trajectories are shown below.

ACTIVE DRIFTER TRAJECTORIES

- Drifter #3570: Deployed on 05/04/2006
- Drifter #3570: Final fix on 07/28/2006

HISTORICAL DRIFTER TRAJECTORIES

<table>
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<tr>
<th>DEPLOYMENT</th>
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<th>DX</th>
<th>TRANSMISSION</th>
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<tr>
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<td>3078</td>
<td>02/04/2004 - 05/01/2004</td>
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<tr>
<td>FEB 2005</td>
<td>Dry Tortugas Deployment</td>
<td>4182</td>
<td>02/19/2005 - 06/03/2005</td>
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</tbody>
</table>

http://www.aoml.noaa.gov/sfros/drifters
Real Time Stations

Looe Key Oceanographic Buoy
Monitoring Station 'LR' - Looe Key, Florida

As part of a collaborative effort supporting NOAA's Coastal Ocean Program and the Florida Keys National Marine Sanctuary, the University of Miami, and the Florida Institute of Technology, the Looe Key Oceanographic Buoy is providing valuable real-time data on temperature, salinity, and current velocity information from the station to all interested parties. For further information, contact looekeydata@gmail.com

Current Conditions
As of 2018-07-01 16:45:55 (EDT)

- Temperature: 26.6°C (80.0°F)
- Salinity: 35.7 psu
- Surface Current Velocity: 1.3 knots (1.49 m/s)
- Surface Current Direction: East
- Bottom Current Velocity: 0.2 knots (0.22 m/s)
- Bottom Current Direction: East

NOTE: Data are provided in a variety of formats suitable for download and data visualization of approximate 20 minutes each. The Looe Key Oceanographic Buoy is operated by the Florida Keys National Marine Sanctuary.

http://looekeydata.net/
Real Time Stations

Moser Channel
at 7-Mile Bridge
in the Florida Keys

SF-RS Monitoring Station: Moser Channel, Florida

The passage spanned by 7-Mile Bridge is one of four predominant passages in the Florida Keys which allow exchange of waters to the north and west of the Keys (including Florida Bay and the Gulf of Mexico) with the Atlantic waters of Havana Channel and the Florida Keys Reef Tract to the south and east. Moser Channel encompasses the deepest section of the passage at 7-Mile Bridge and has an orientation perpendicular to the bridge. The other three Keys passages important to the exchange of southern Florida coastal waters are Long Key Channel, Channel 5, and Channel 2.

Current Conditions
1830 est 03/19/2007 (2330 gmt 03/19/2007):

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<th>Parameter</th>
<th>Value</th>
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<td>FLUORESCENCE</td>
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<tr>
<td>TRANSMITTANCE</td>
<td>NaN volts (0-5 volts)</td>
</tr>
</tbody>
</table>

NOTE: Observations are taken at a depth of approximately 1.5 meters. Water depth at the station is 3.6 meters MLLW. Fluorescence and transmittance are relative values expressed in volts. Moser Channel Oceanographic Monitoring Station located at 24°43’45.9”N, 81°10’16.0”W

Real-Time Data via NOAA’s SFP

As part of NOAA’s South Florida Ecosystem Research and Monitoring Program (a collaborative effort sponsored by NOAA’s Coastal Ocean Program, in support of the Florida Keys National Marine Sanctuary), the Atlantic Oceanographic and Meteorological Laboratory and the Rosenstiel School of Marine and Atmospheric Science are providing half-hourly measurements of water temperature, salinity, chlorophyll fluorescence, and light transmittance (turbidity) gathered from this station to all interested parties.

Moser Channel Time-Series Plots

http://www.aoml.noaa.gov/sfros/moser/
Conch Reef Oceanographic Station at Aquarius

SF-ROS Monitoring Station: Conch Reef, Florida

Current Conditions
1530 edt 01/30/2007 (1930 gmt 01/30/2007):

**WATER QUALITY**

- TEMPERATURE: 30.07°C (86.12°F)
- SALINITY: 38.14 psu
- FLUORESCENCE: 4.91 volts (0-5 vdc)
- TRANSMITTANCE: 0.35 volts (0-5 vdc)
- O₂ CONCENTRATION: 199.03 µmol/kg
- O₂ SATURATION: 100.0%

**WAVES AND CURRENTS**

- SIG. WAVE HEIGHT: 4.5 m
- MAX WAVE HEIGHT: 4.5 m

Real-Time Collaboration...

As part of NOAA's South Florida Program, the Atlantic Oceanographic and Meteorological Laboratory (AOML) and the Rosenstiel School of Marine and Atmospheric Science (RSMAS) in collaboration with NOAA's Undersea Research Program (NURP) and the University of North Carolina Wilmington (UNCW) are providing real-time data gathered from Conch Reef Oceanographic Monitoring Station to all interested parties. Presently, Conch Reef hourly measurements include water velocity and directional waves data, along with water temperature, salinity, chlorophyll fluorescence, light transmittance (turbidity), and dissolved oxygen.

Conch Reef Oceanographic Monitoring Station is located at NOAA's undersea research laboratory, Aquarius. The Aquarius habitat is deployed offshore Key Largo, Florida in the Florida Keys National Marine Sanctuary.

http://www.aoml.noaa.gov/sfros/conch/
Conch Reef Oceanographic Station at Aquarius
• Acoustic Doppler Current Profiler with wave gauge for currents and directional waves.
• Conductivity (salinity) and temperature sensors.
• Transmissometer for turbidity.
• Fluorometer for chlorophyll fluorescence.
• Dissolved oxygen sensor.
• Sent real-time to public web site with user friendly interface.

http://www.aoml.noaa.gov/sfros/conch/
Real Time DATA

http://www.aoml.noaa.gov/sfros/conch/
Real Time DATA

http://www.aoml.noaa.gov/sfros/conch/
Real Time DATA

http://www.aoml.noaa.gov/sfros/conch/
Publications

South Florida Coastal Oceanographic Database

Related Projects
NOAA's South Florida Ecosystem Research and Monitoring Program

Related Links
Publications

Click the image for current mooring data

Tom Lee, Nelson Melo (Contacts)

http://www.aoml.noaa.gov/sfros/database/
South Florida Program Publications:


Contacts

Nelson Melo
NOAA/AOML/PhOD-RSMAS/CIMAS
Physical Oceanography Division
4301 Rickenbacker Causeway
Miami, FL 33149-1026, USA
Ph: 305-361-4329
E-mail: nelson.melo@noaa.gov

Thanks!