

# *OceanWatch Central Pacific*



**NOAA**  
**FISHERIES**  
PIFSC

*Satellite Oceanography Products & Applications*

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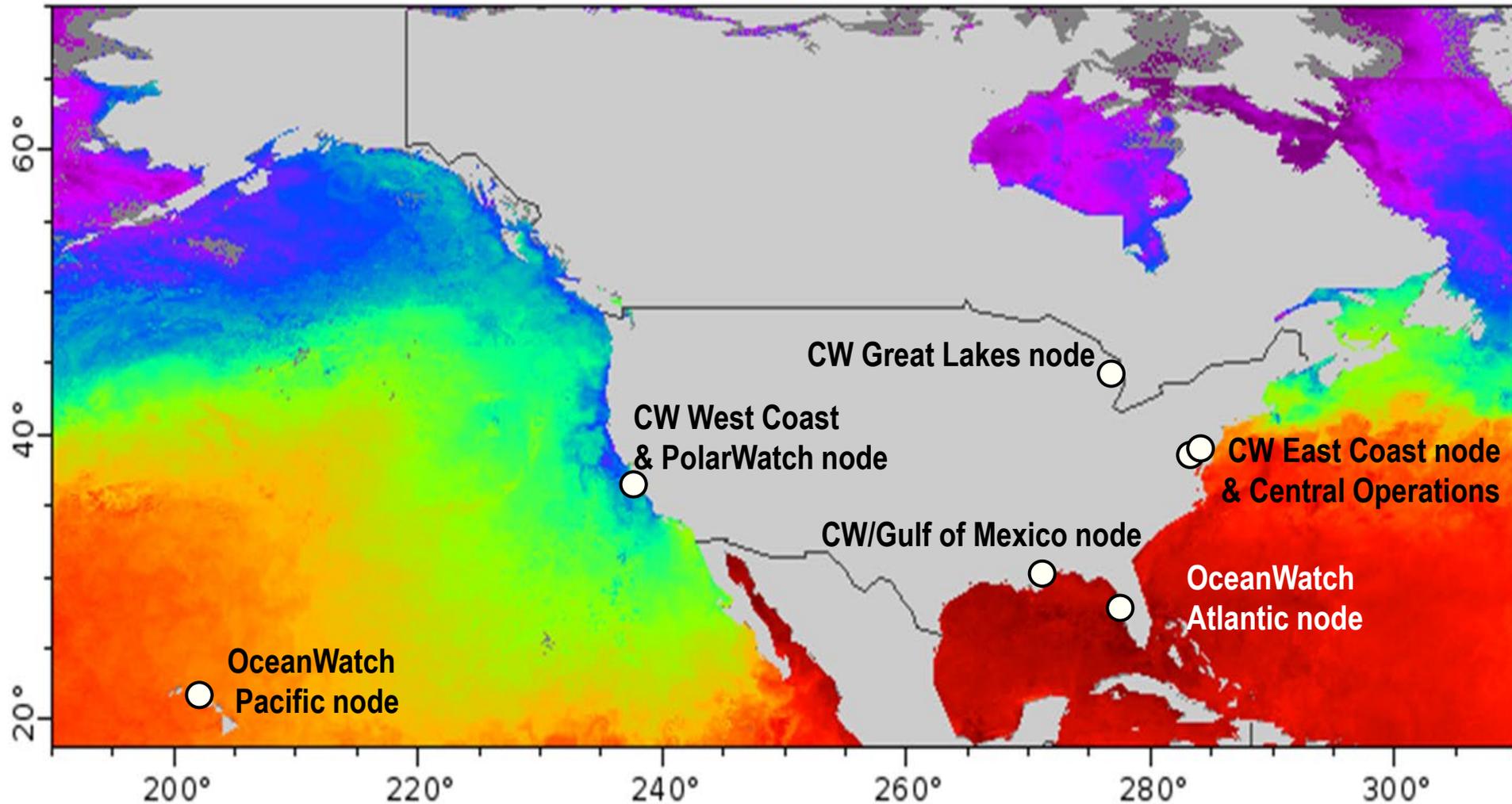
<https://oceanwatch.pifsc.noaa.gov/>



Last updated: 11/15/2018

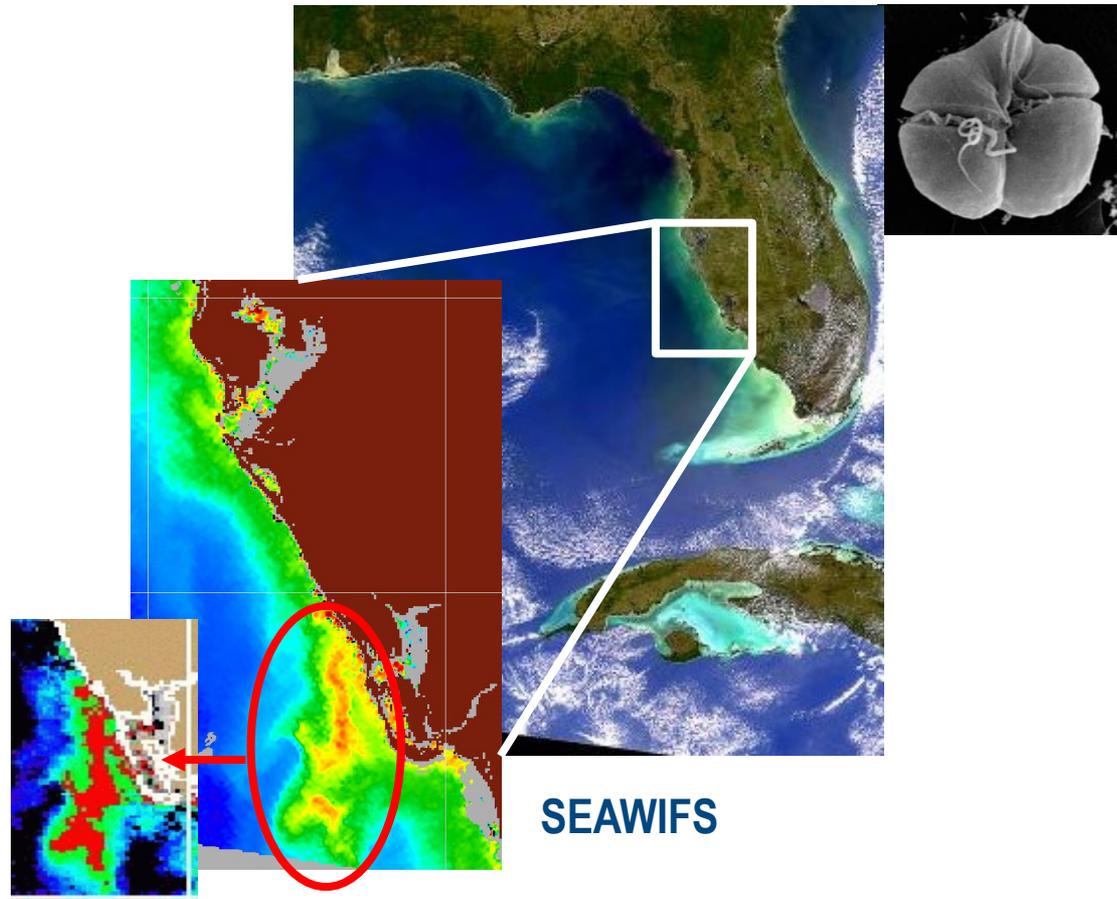
# The NOAA CoastWatch/OceanWatch/PolarWatch program

Objective: Provide ocean satellite data products for users from the US and territories



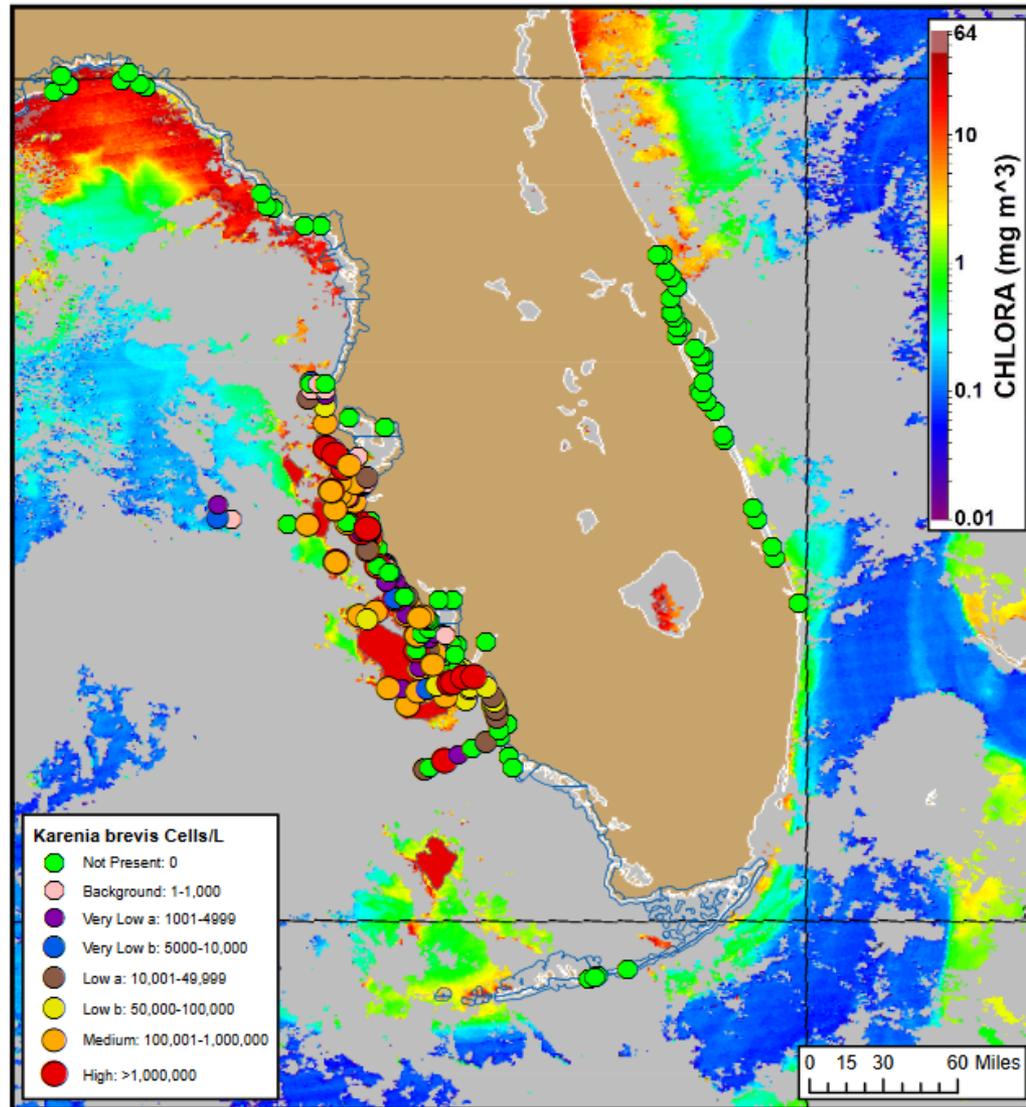
# Harmful Algal Bloom (HAB) Detection: start of NOAA CoastWatch

Operational Monitoring and Forecasting of HABs in the Gulf of Mexico



Courtesy of Rick Stumpf, NOS

# Harmful Algal Bloom (HAB) Detection: start of NOAA CoastWatch



Courtesy of Rick Stumpf, NOS

# What's the Problem(s) ?

- Environmental satellite data is underutilized within the 'wet' part of NOAA (NMFS, NOS)
- Fisheries scientists and managers are often not familiar with the available datasets or how to access and manipulate them.
- Satellite data can be difficult to access, manipulate and process, particularly for people who have never used it before.
- Data is available from many sources, often poorly documented, each data access is different
- Rigorous 'data mining' is needed to match up satellite data with survey or telemetry records.
- Time-series of satellite data are relatively short compared to many fisheries datasets.



# NOAA Satellite Data Training Course

- 3-day (free!) course aimed at NOAA participants who want to learn how to access & use satellite data
- The course was developed by Cara Wilson and the late Dave Foley, both at NMFS/SWFSC/ERD, in conjunction with Ted Strub at the Cooperative Institute for Oceanographic Satellite Studies (CIOS) at Oregon State University in Corvallis, OR.
- The course was initiated by funding from NOAA's R&O project at CoastWatch's West Coast Node in 2006. The course was conducted with no funding support 2007-2012, some funding has been obtained for the courses since 2013.
- **In 2018, the course goes viral through the East Coast CoastWatch Node and the Pacific OceanWatch Node!**
- The learning experience goes two ways. From conducting these courses, the CW/OW/PW program gets a better idea of users' needs and wants, and are better able to address those needs.



# NOAA Satellite Data Training Course

- Conducted almost every year since 2006:

DATE	LOCATION	#
Aug 22-24, 2017	CSSCR/UW, Seattle, WA	28
Aug 30-Sep 1, 2016	CSSCR/UW, Seattle, WA	37
Aug 25-27, 2015	CSSCR/UW, Seattle, WA	10
Aug 26-28, 2014	CSSCR/UW, Seattle, WA	23
Aug 20-22, 2013	CIOSS/OSU, Corvallis, OR	35
Mar 13-15, 2012	NOS/CSC, Charleston, SC	7
Mar 23-25, 2011	CIOSS/OSU, Corvallis, OR	26
Aug 9-11, 2010	MATE/MPC, Monterey, CA	19
Aug 2-4, 2010	MATE/MPC, Monterey, CA	22
Mar 24-26, 2008	CIOSS/OSU, Corvallis, OR	19
Mar 26-28, 2007	CIOSS/OSU, Corvallis, OR	28
Aug 22-24, 2006	CIOSS/OSU, Corvallis, OR	31



# PIFSC Satellite Data Training Course

- Today: Lectures – some of it pretty basic, some of it pretty technical because of the variety of participants.
- Wednesday :
  - Tutorials : ERDDAP, Voyager, R
  - Start work on projects **in R**
- Thursday: projects **in R**

Schedule for Wednesday and Thursday is flexible, spend as much time as you need on tutorials first. Or skip them if you are already familiar with ERDDAP and R.

**ArcGIS : 1-day workshop, date TBD**

Matlab scripts will also be available soon.



# PIFSC Satellite Data Training Course – just one slide

## REMINDER

At the end of the course, or shortly after (1-2 weeks), please send me ONE slide about your project, or about how you are envisioning using satellite data in the future.

(I will keep asking. Just FYI)