



# Water Quality Trends and Responses to Specific Events in Estero Bay Aquatic Preserve [2005-2022]

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# EBAP CONTINUOUS WATER QUALITY MONITORING

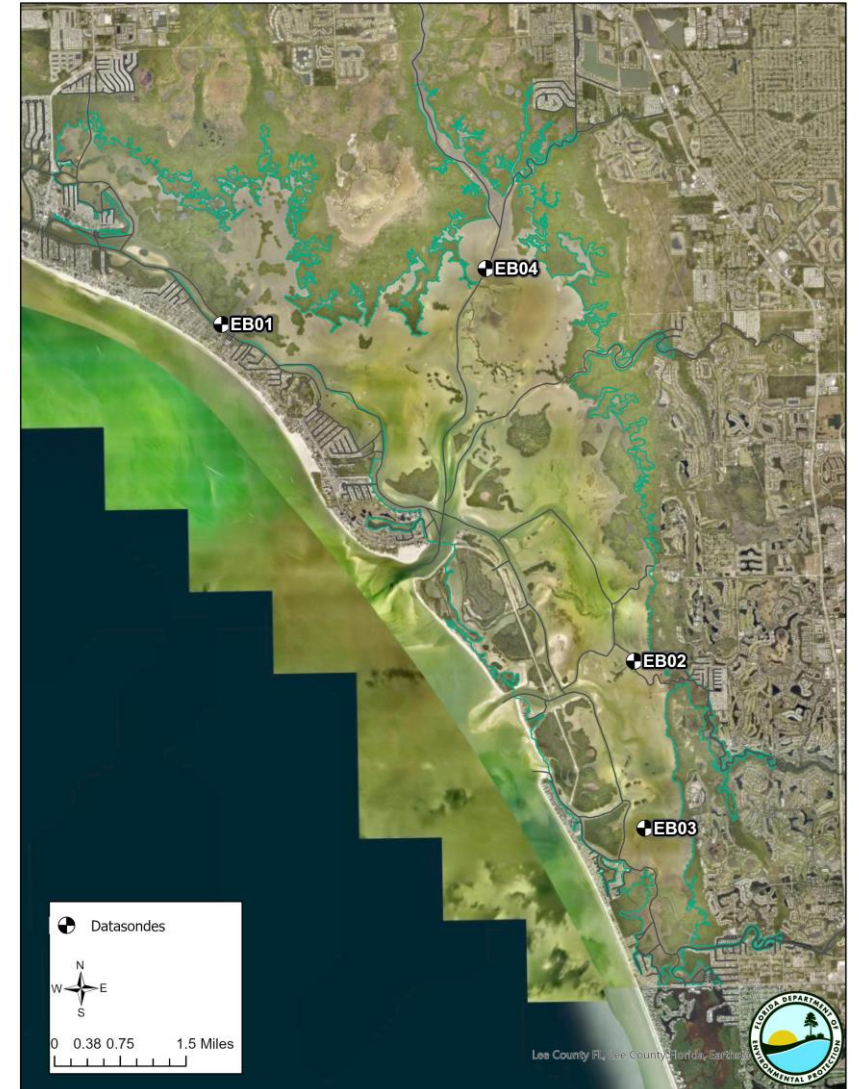
## Program Goals

- Establish baseline water quality.
- Evaluate daily, seasonal, and long-term trends.
- Quantify effects of specific events.

## Program History

### Station Histories

- EB01: July 2004-October 2022.
- EB02: November 2004-present.
- EB03: November 2004-present\*.
- EB04: May 2021-present.





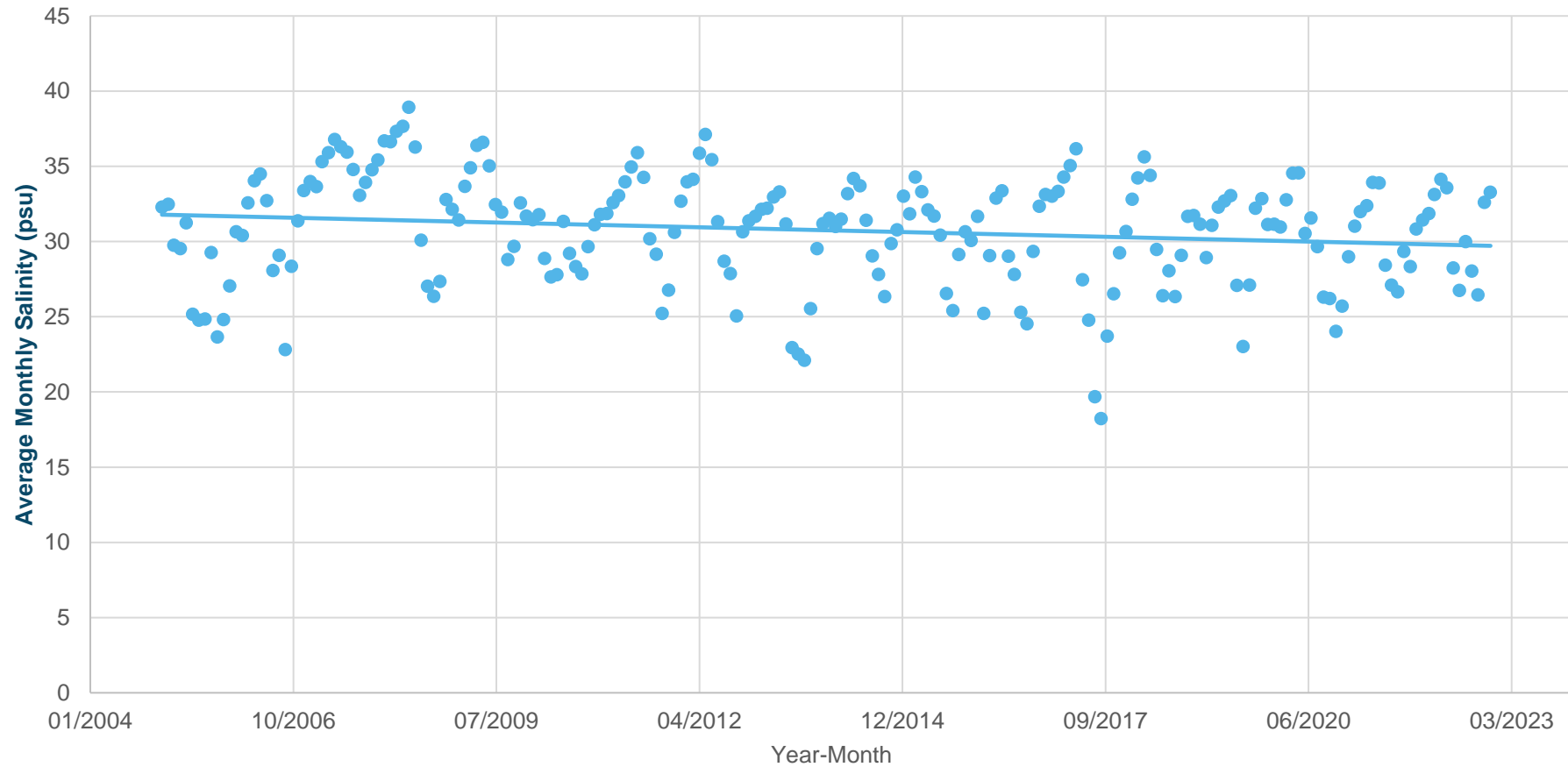
# LONG-TERM TREND RESULTS

RESULTS		Parameter				
		Temp	Sal	DO	pH	Turb
Station(s)	EB01	↑	↓	↑	--	↑
	EB02	↑	↓	↑	↓	↓
	EB03	↑	↓	↑	↓	↓
	All	↑	↓	↑	↓	--



# LONG-TERM SALINITY TREND

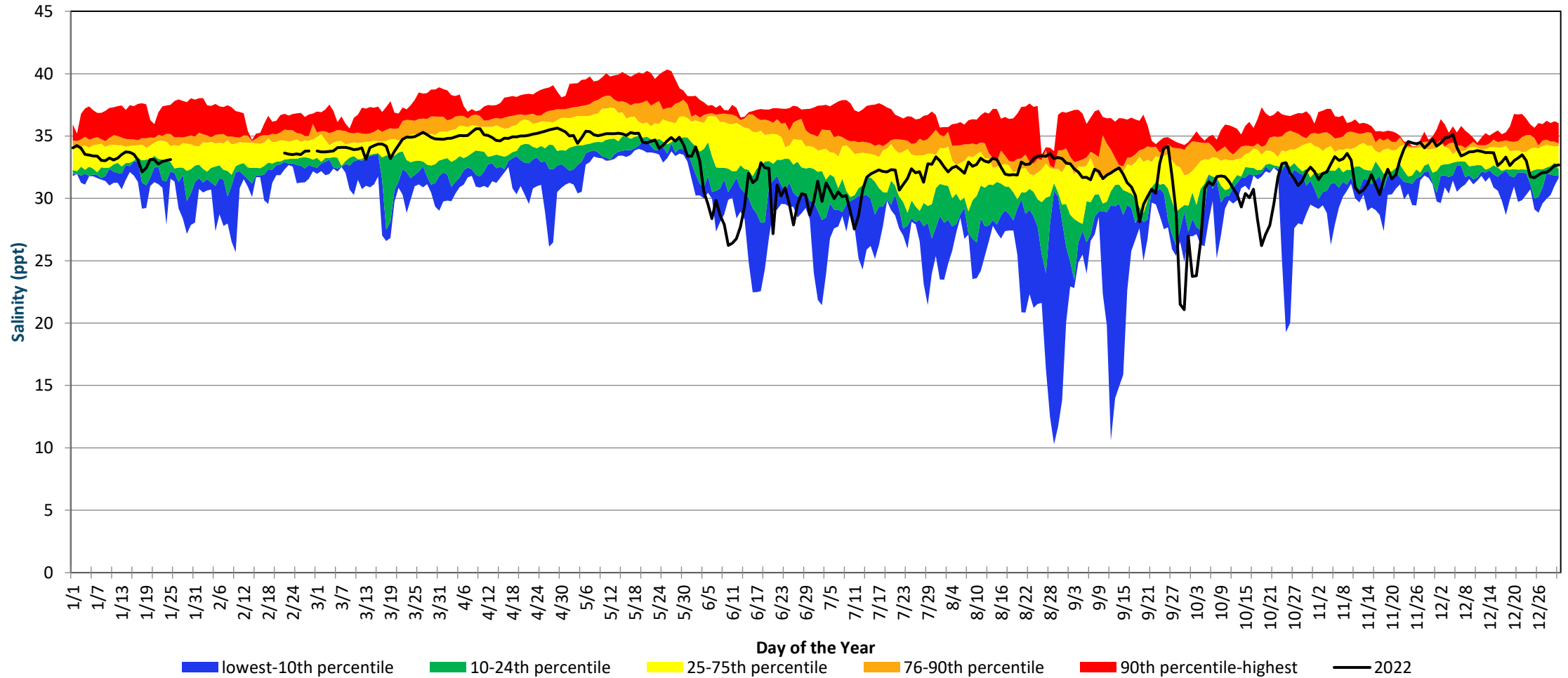
## Average Salinity





# 2022 SALINITY

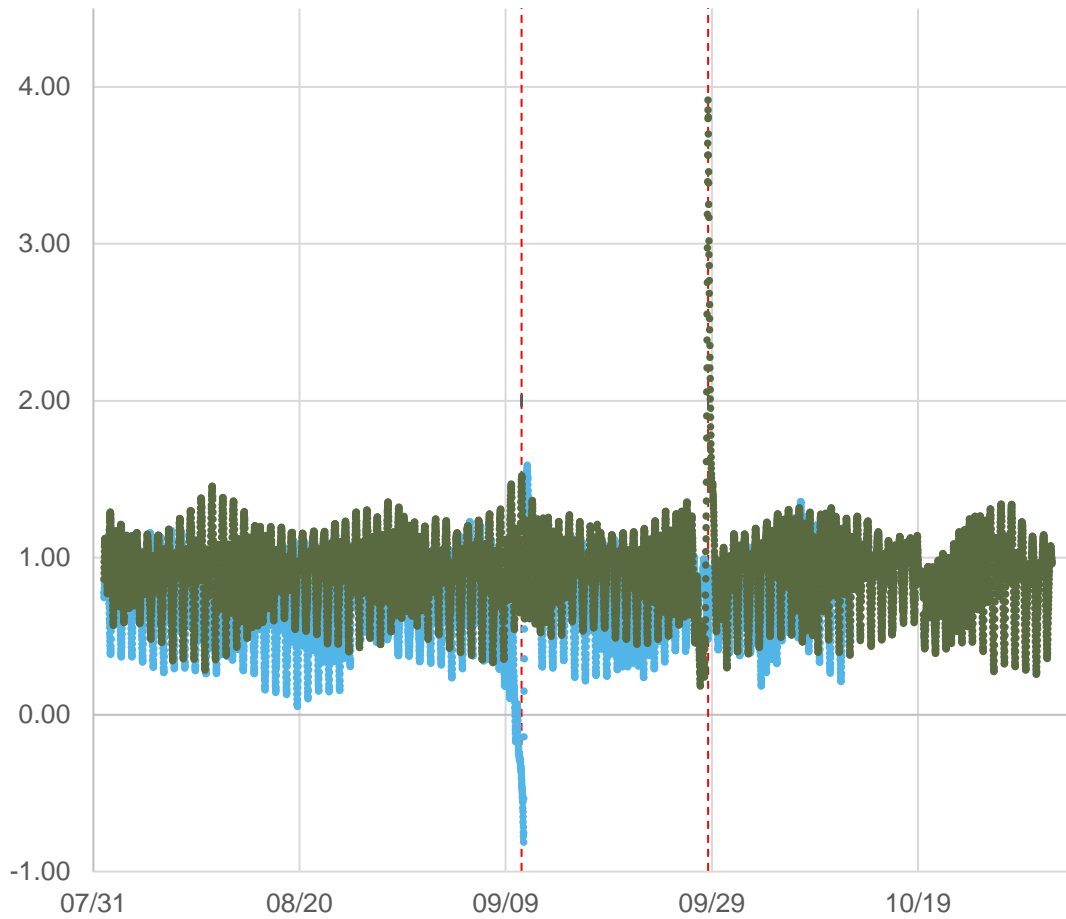
## Daily Average Salinity at EB02



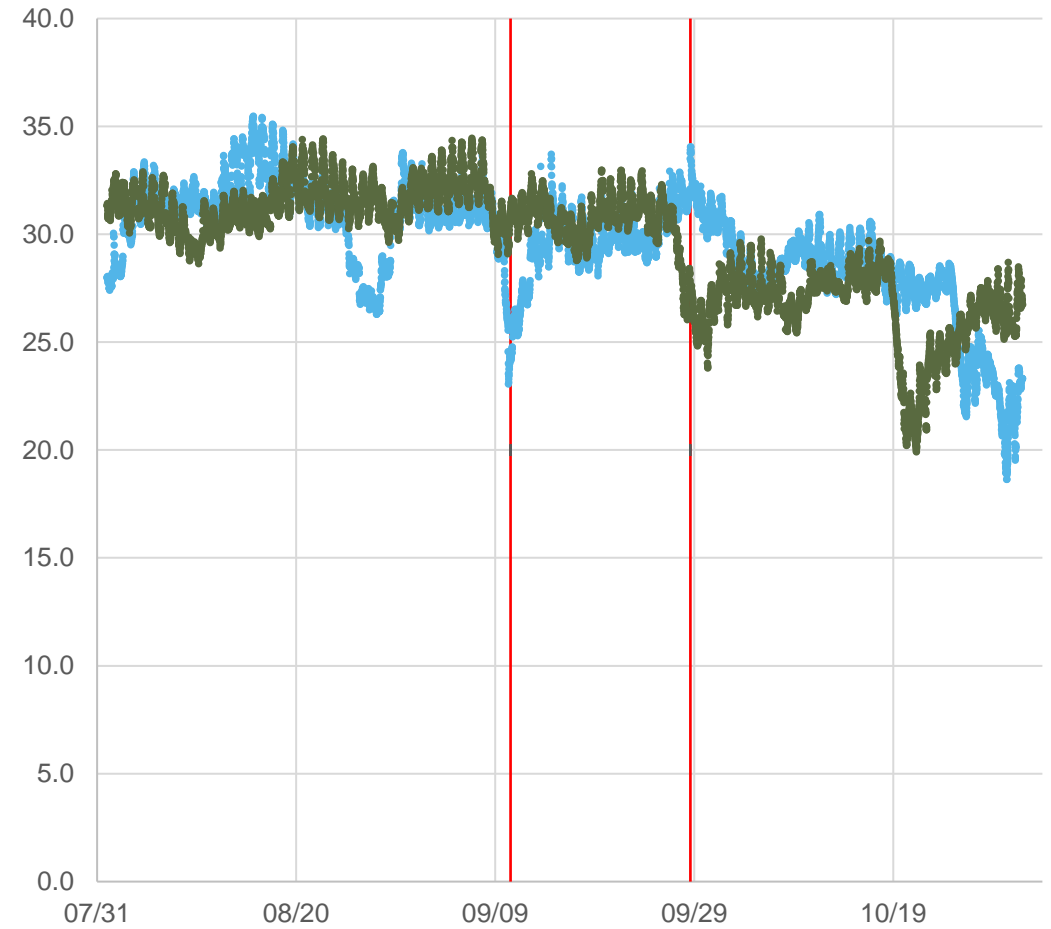


# A TALE OF TWO STORMS

## EB02 Depth: Irma v. Ian



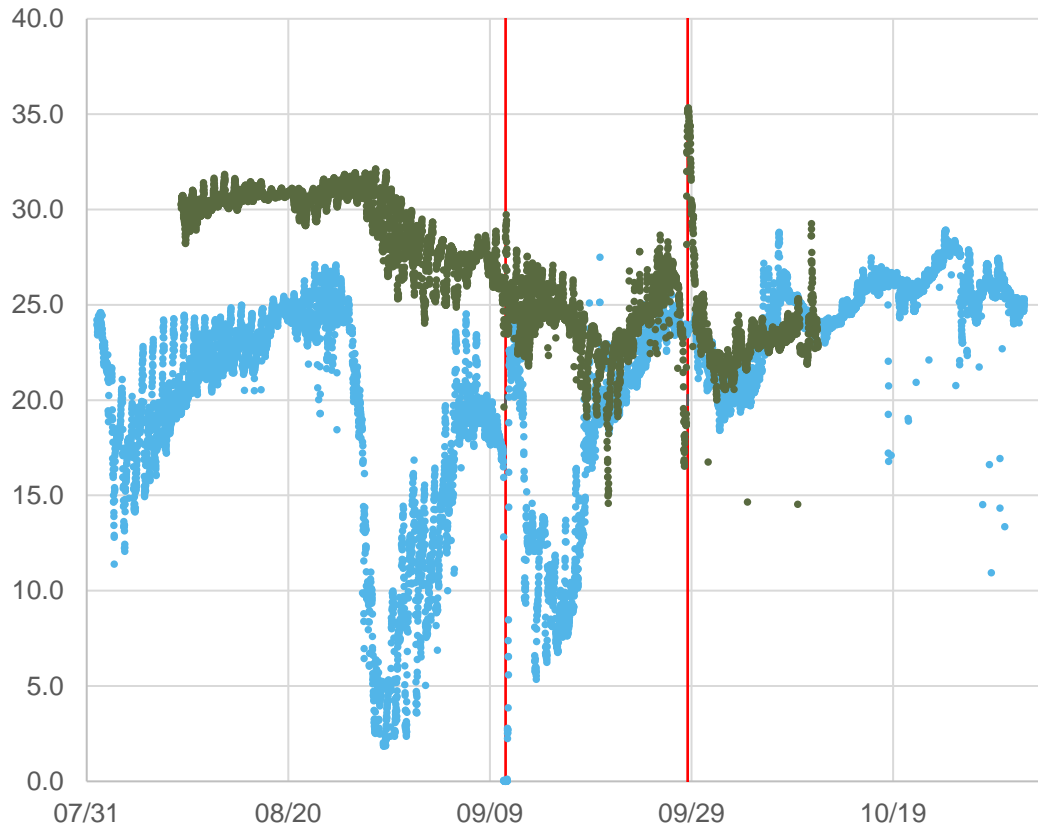
## EB02 Temperature: Irma v. Ian



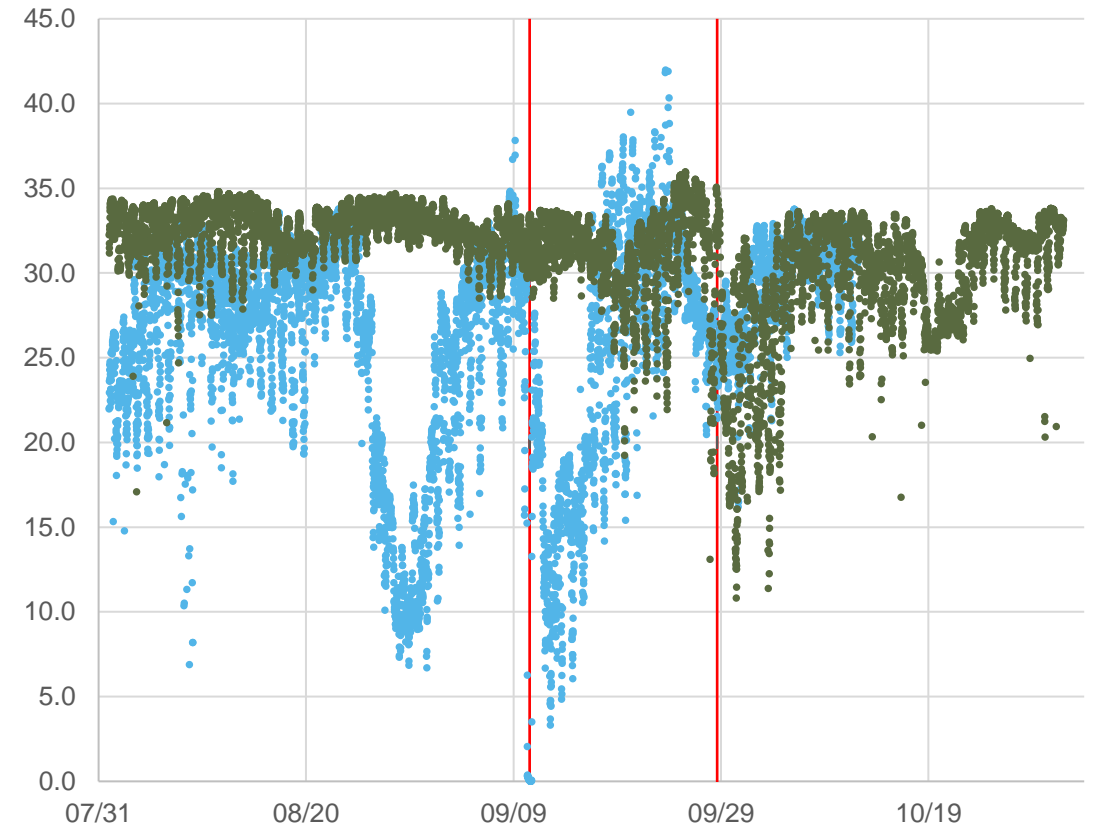


# HURRICANES AND SALINITY

EB01 Salinity: Irma v. Ian



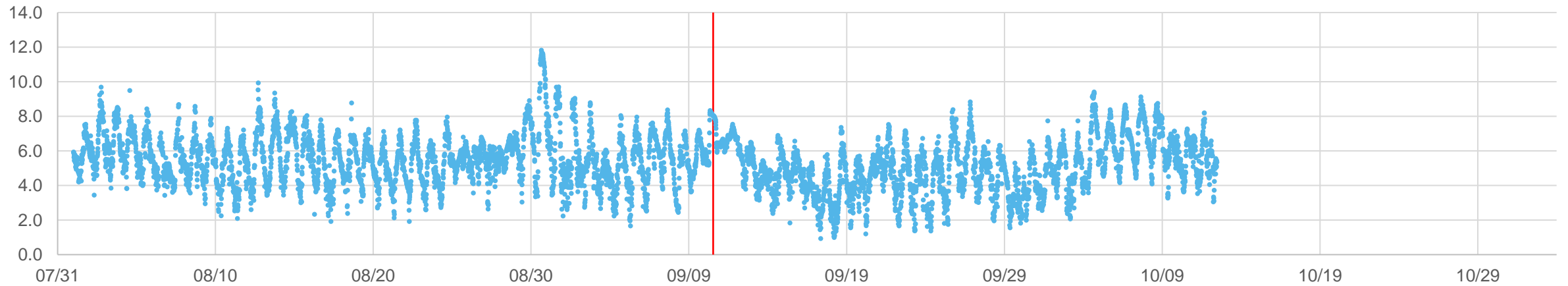
EB02 Salinity: Irma v. Ian



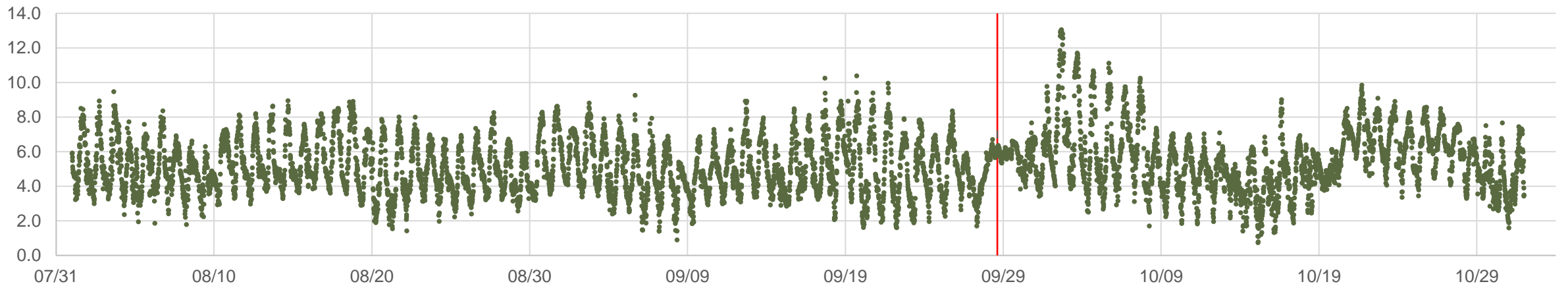


# HURRICANES AND DISSOLVED OXYGEN

## EB02 Dissolved Oxygen 2017



## EB02 Dissolved Oxygen 2022

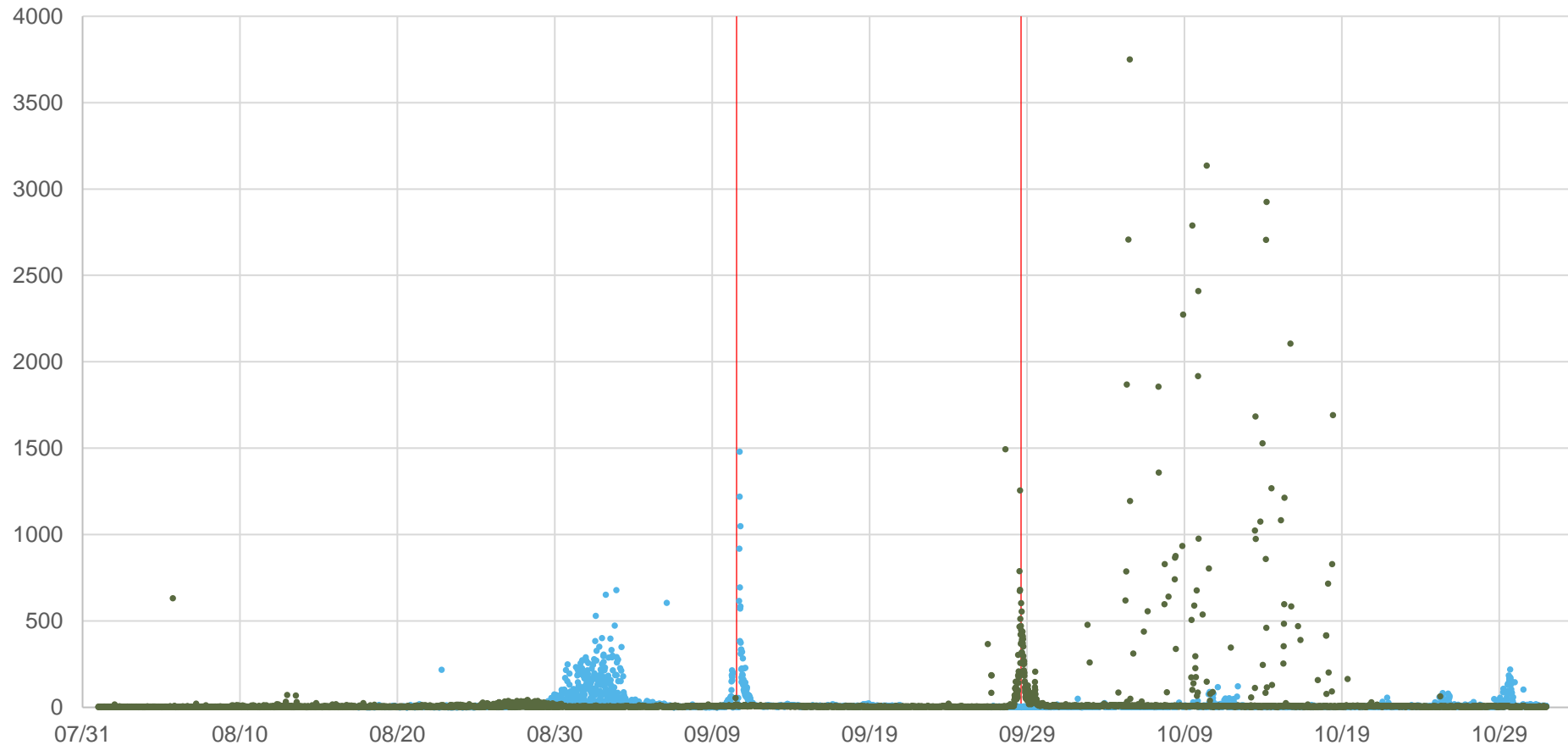






# STORMS AND TURBIDITY

EB02 Turbidity: Irma v. Ian





# THANK YOU

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