

The Galveston Bay Status and Trends Project

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Photo: Jon Burns

Thanks

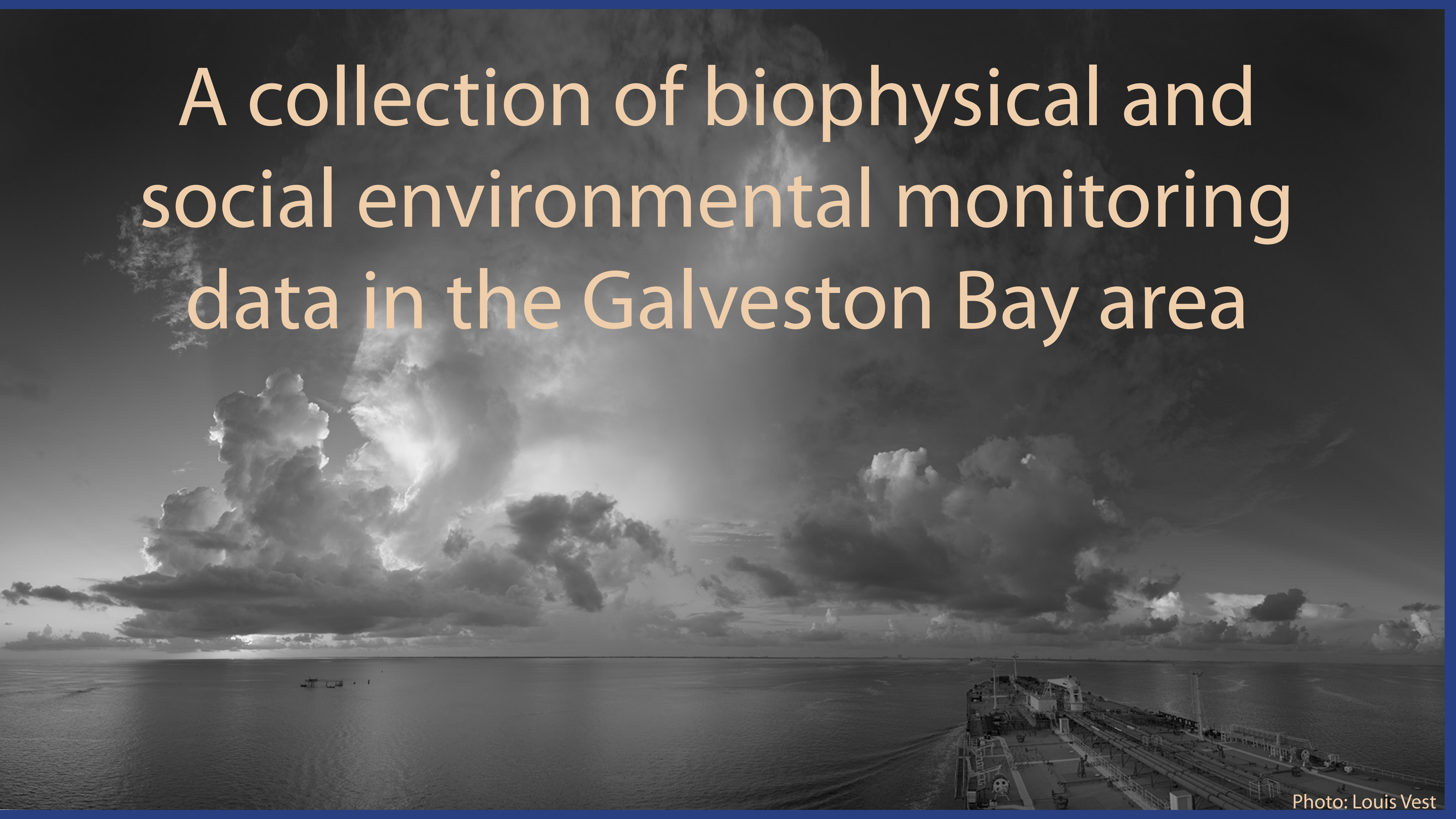


What is the Galveston Bay Status and Trends Database?



Photo: Louis Vest

A collection of biophysical and social environmental monitoring data in the Galveston Bay area



Old Status and Trends Site:
www.galvbaydata.org



Galveston Bay Status and Trends

[Home](#) [State of the Bay](#) [Water & Sediment](#) [Living Resources](#) [Habitat](#) [Seafood Safety](#) [Ecosystem Services](#)

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Indicators of Bay Health

Welcome to the Galveston Bay Status and Trends website. The website serves as an entry to data describing Galveston Bay and its surrounding watershed. Please use the navigation area above to explore the status and trends of Galveston Bay resources and the indicators of bay health that interest you.

Why Do We Need to Manage the Bay?

Whether you live on the shore of the bay, Galveston Island, or on the west side of Houston, the Houston-Galveston region is defined by its coastal location and proximity to Galveston Bay. A healthy bay and watershed which are managed wisely provide a unique environment to all who live, work, and play in the Houston-Galveston region. Managing bay and watershed resources to promote wise use and protection will sustain those resources for generations to come. In order to manage bay and watershed resources successfully, we need to understand ecosystem processes and the impacts of human uses on bay resources. Status and Trends and indicators of bay health are information tools which facilitate sound management of the Galveston Bay Ecosystem.

Why Do We Study Status and Trends?

Certain aspects of Galveston Bay and the surrounding watershed can be examined to assess the overall health of the complex bay ecosystem - these are referred to as Indicators of Bay Health. Important indicators of bay health include: water and sediment quality, populations of native and nonnative fish and wildlife, quantity and quality of diverse habitats, and the amount of freshwater flowing into the bay.

Since Galveston Bay exists in a large metropolitan area, one must also look at the status and trends of human uses of the bay and watershed ecosystems including: recreational and commercial fisheries harvest, seafood safety, transportation and shipping, recreation, and commercial and residential development.

While each indicator provides insight into one aspect of bay health and each can be examined independently, all are interconnected. Therefore, it is very important to have an integrated, ecosystem-level understanding of the state of Galveston Bay using data from various sources. Information describing the indicators of bay health is routinely gathered by many agencies and organizations at the federal, state, and local level. The Galveston Bay Status and Trends project gathers, manages, and analyzes the data and makes them available through one website.





WATER AND SEDIMENT QUALITY

[Home](#)[Water and Sediment v](#)[Living Resources v](#)

STEP 1: Select a Subbay or Tributary



STEP 2: Select a parameter

STEP 3: Click on bar to drill down

No Data

STEP 4: Download All years Data for current selection

[Export Data to Excel](#)

(*) Indicates Average Values were calculated with an insufficient sample size

Average Values
Label



WATER AND SEDIMENT QUALITY

Home | Water and Sediment v | Living Resources v

Upper and Lower Galveston Bay *Water* -(00010)- WATER TEMPERATURE (DEGREES CENTIGRADE)

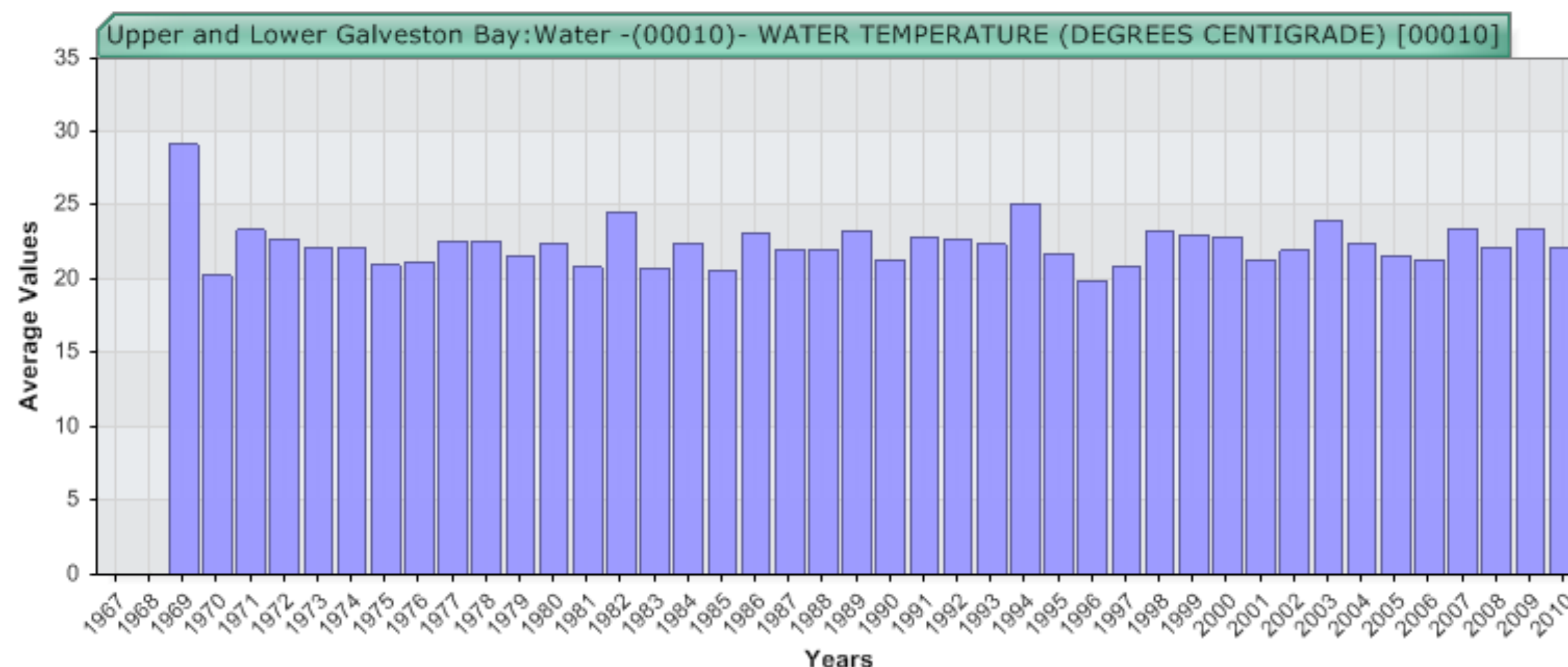
STEP 1: Select a Subbay or Tributary



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Water -(00010)- WATER TEMPERATURE (DEGREES CENTIGRADE) ▼

STEP 3: Click on bar to drill down



STEP 4: Download All years Data for current selection

Export Data to Excel

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Years	Sample Size	Std Dev	Flags
1968			*
1969	6	2.5	*
1970	13	9.59	
1971	12	5.31	
1972	14	6.32	
1973	21	6.2	
1974	24	5.73	
1975	24	7.59	
1976	23	7.57	
1977	24	6.99	
1978	28	6.93	
1979	24	7.35	
1980	21	6.57	

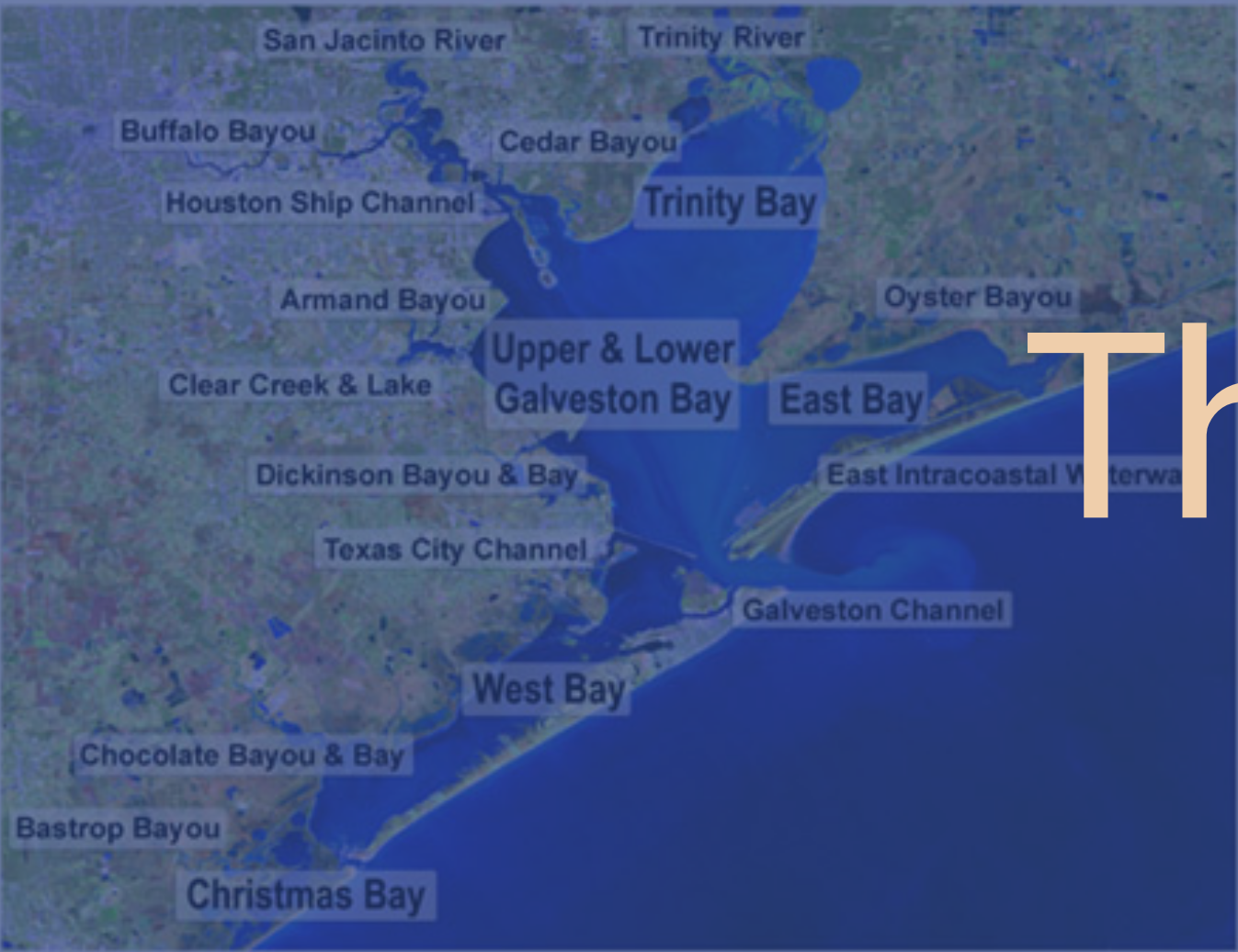
Average Values

Years	Average Values
1967	0.00
1968	0.00
1969	29.20
1970	20.28
1971	23.38
1972	22.74
1973	22.22
1974	22.09
1975	20.98
1976	21.17
1977	22.56
1978	22.65
1979	21.58



Upper and Lower Galveston Bay Water -(00010)- WATER TEMPERATURE (DEGREES CENTIGRADE)

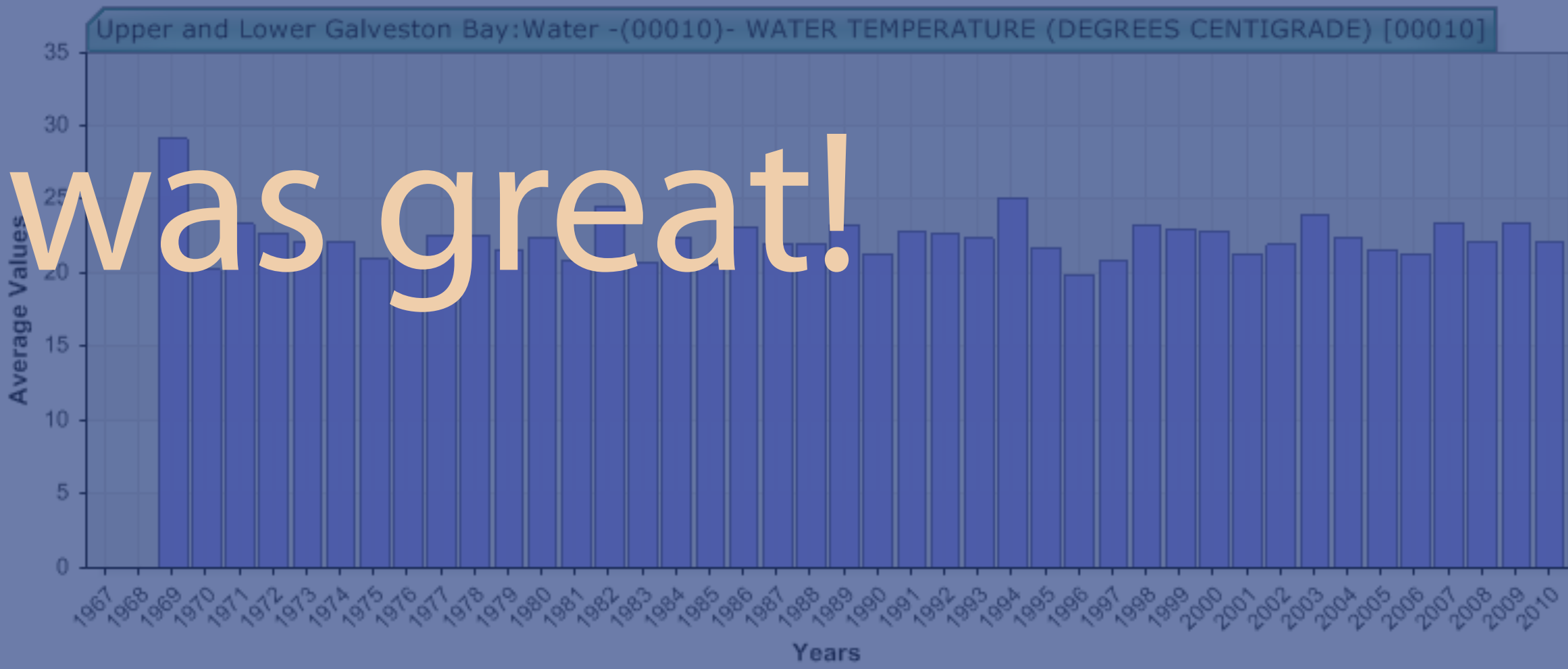
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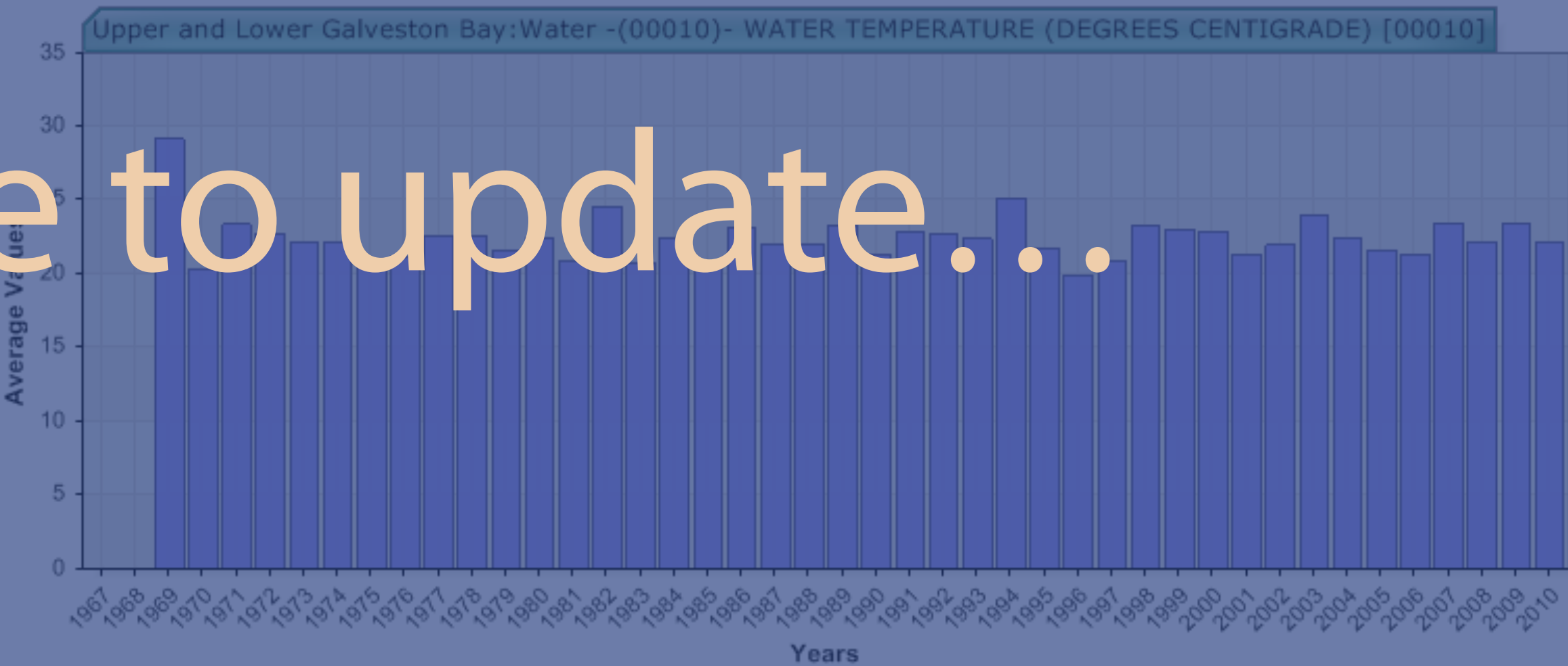
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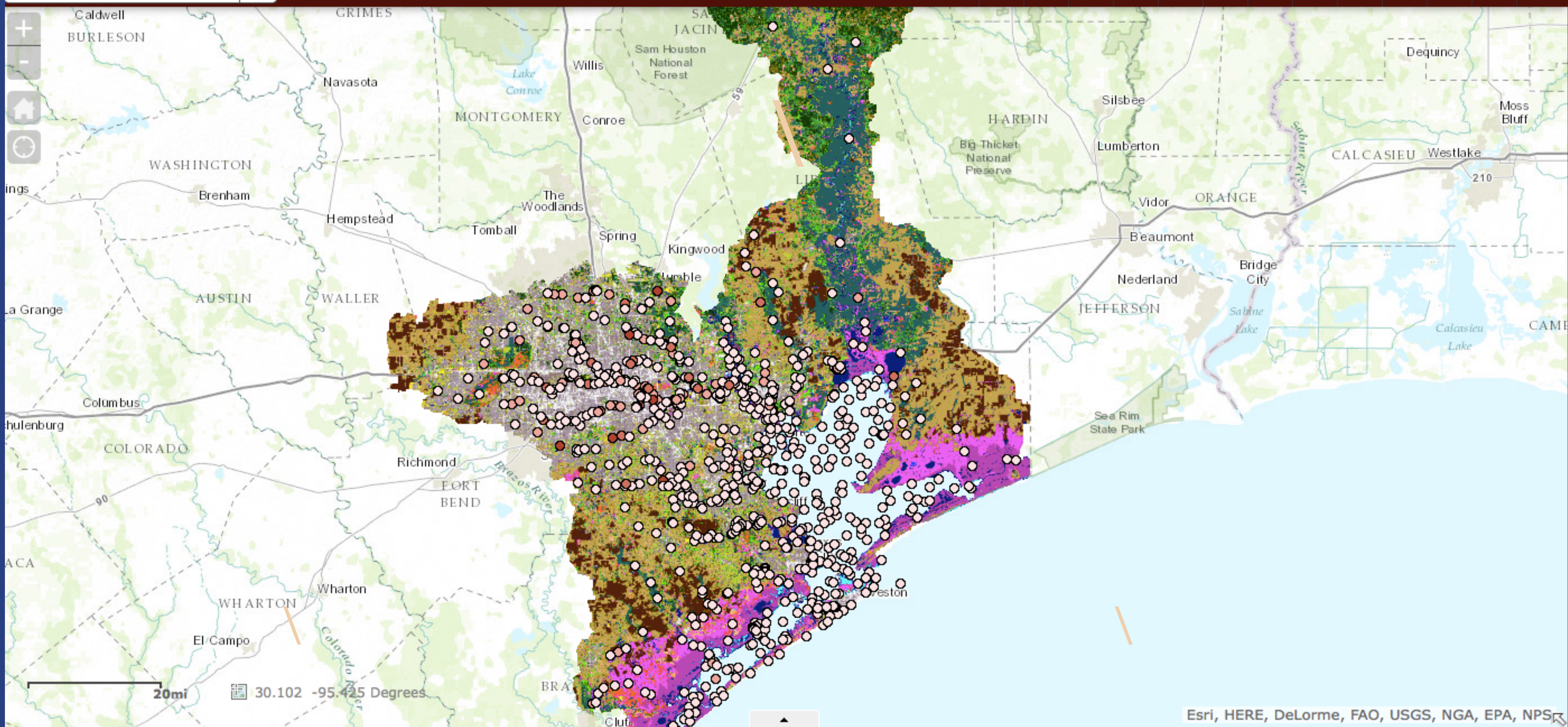
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Search Location



Esri, HERE, DeLorme, FAO, USGS, NGA, EPA, NPS

3 focal areas

1. Updating the data

Updated Data

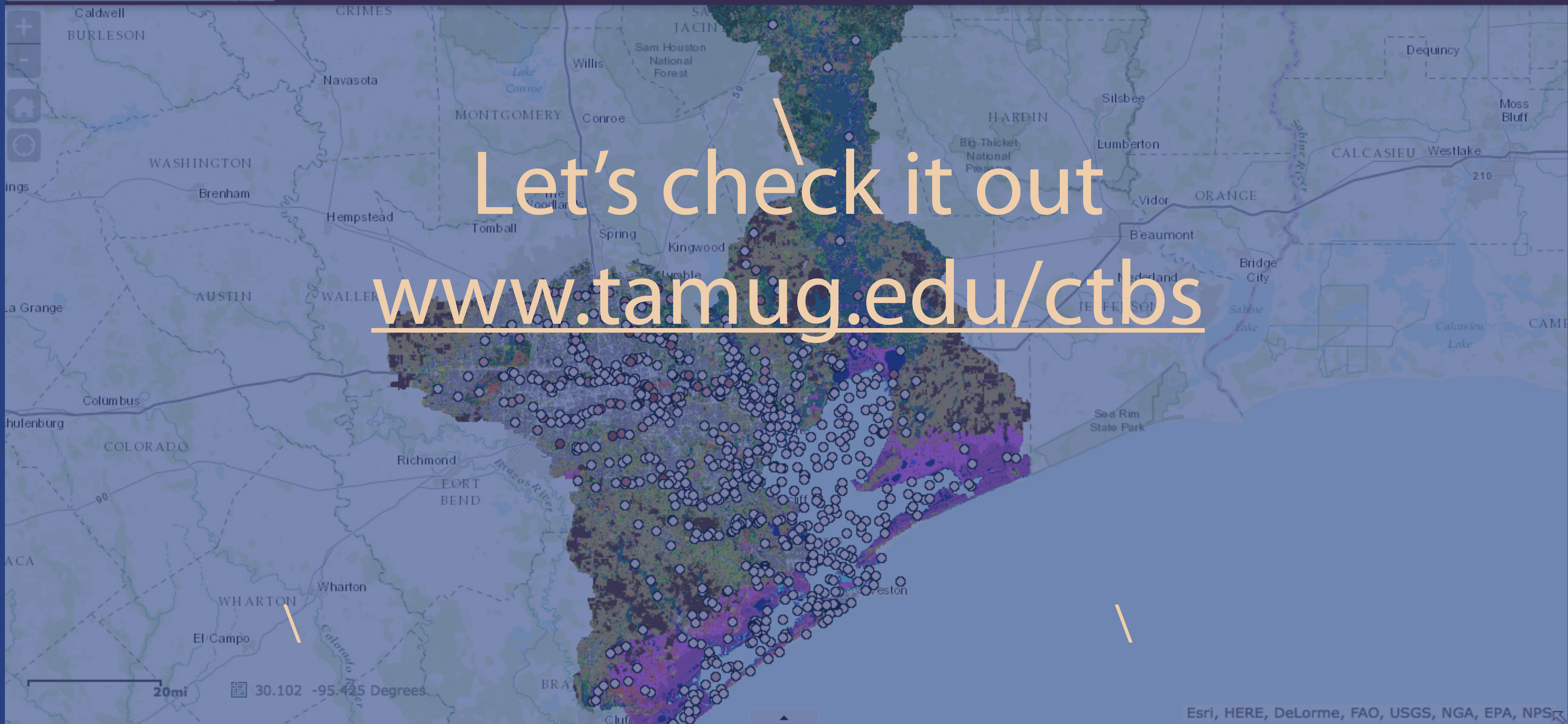
- Birds
- Organics
- Metals
- Bacteria - E.Coli, Enterococci, Fecal Coliform
- Nutrients - orthophosphate, total phosphorus, nitrate, nitrite, nitrate & nitrite, ammonia, chlorophyll
- TPWD - CPUE
- Field Water Quality (TCEQ)- Temperature, dissolved oxygen, specific conductance, pH
- Field Water Quality (TPWD)- temperature, dissolved oxygen, salinity, turbidity
- Salinity



2. Integrating with a ground-breaking social data atlas

3. Creating detailed metadata

Search Location



Let's check it out
www.tamug.edu/ctbs

Dr. Sam Brody