

The Galveston Bay Status and Trends Project

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Thanks



CTBS



What is the Galveston Bay Status and Trends Database?

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](#)

You are here [Home](#)

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?

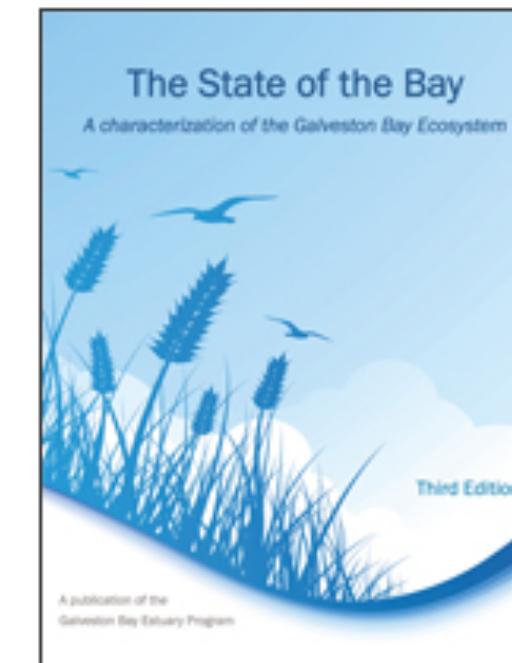
Whether you live on the shore of the bay, Galveston Island, or on the west side of Houston, the Houston-Galveston region is defined by its coastal location and proximity to Galveston Bay. A healthy bay and watershed which are managed wisely provide a unique environment to all who live, work, and play 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](#)

Average Values
Label

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



WATER AND SEDIMENT QUALITY

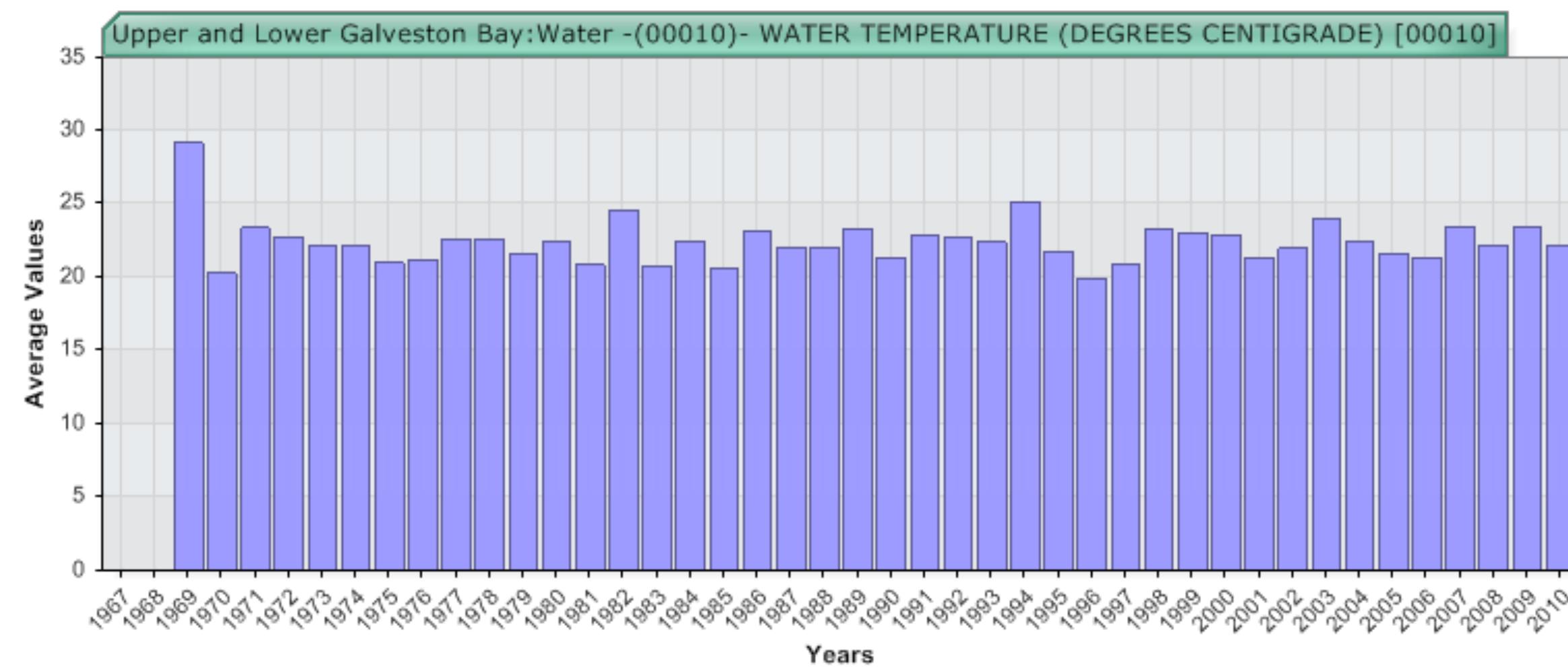
[Home](#) | [Water and Sediment v](#) | [Living Resources v](#)

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



STEP 2: Select a parameter
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](#)

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

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	

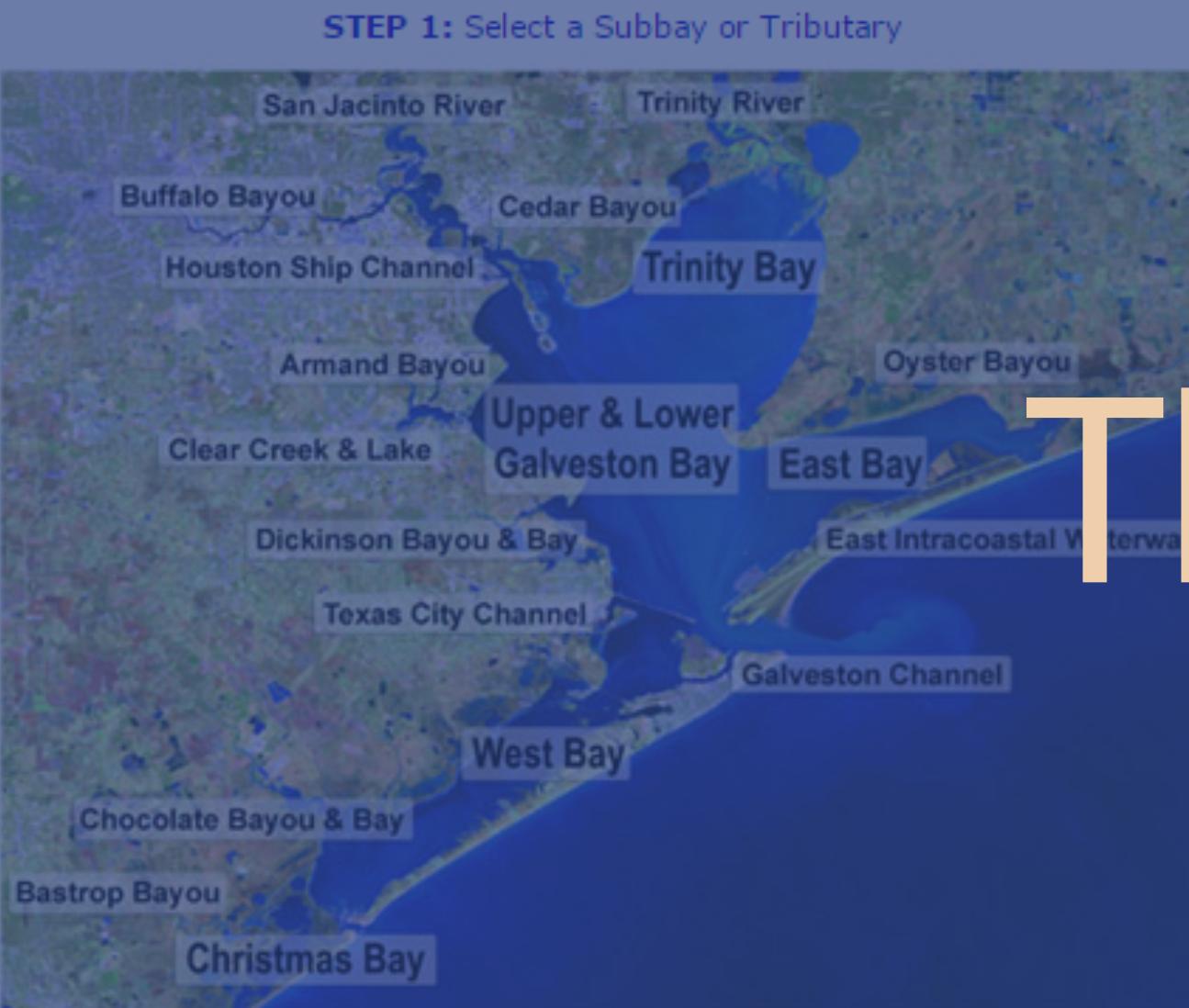
Years	Average Values
1967	0.00
1968	0.00
1969	29.20
1970	20.28
1971	23.38
1972	22.74
1973	22.22
1974	22.09
1975	20.98
1976	21.17
1977	22.56
1978	22.65
1979	22.65
1980	22.65
1981	21.52
1982	24.52
1983	20.98
1984	22.65
1985	21.52
1986	23.17
1987	22.09
1988	22.65
1989	23.17
1990	21.52
1991	23.17
1992	22.65
1993	22.65
1994	24.52
1995	21.52
1996	20.00
1997	21.00
1998	23.17
1999	23.17
2000	22.65
2001	21.52
2002	22.09
2003	23.17
2004	22.09
2005	21.52
2006	21.52
2007	23.17
2008	22.09
2009	23.17
2010	22.09



WATER AND SEDIMENT QUALITY

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

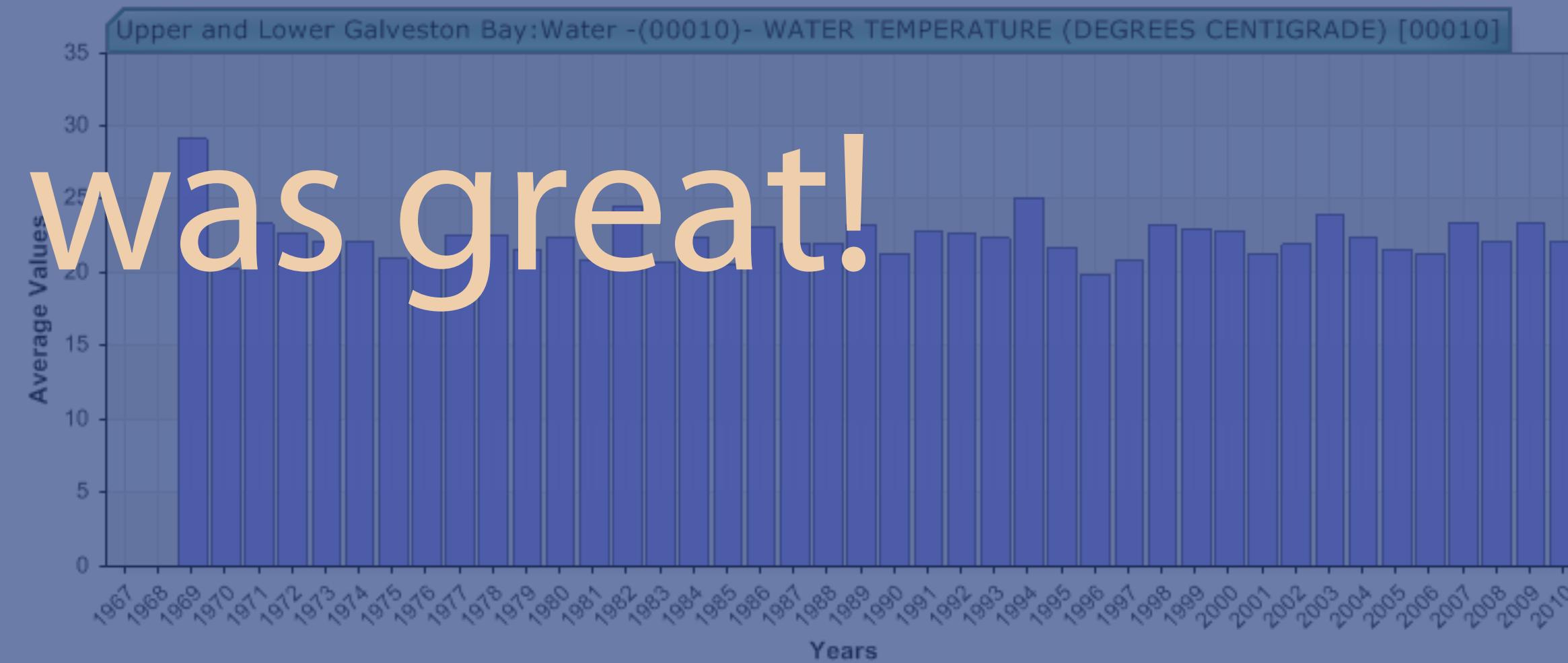
Upper and Lower Galveston Bay Water -(00010)- WATER TEMPERATURE (DEGREES CENTIGRADE)



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

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STEP 3: Click on bar to drill down



STEP 4: Download All years Data for current selection

[Export Data to Excel](#)

Average Values

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1968	0.00
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1973	22.22
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1975	20.98
1976	21.17
1977	22.56
1978	22.65
1979	21.58
1980	21.58
1981	21.58
1982	21.58
1983	21.58
1984	21.58
1985	21.58
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2002	21.58
2003	21.58
2004	21.58
2005	21.58
2006	21.58
2007	21.58
2008	21.58
2009	21.58
2010	21.58

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

Years **Sample Size** **Std Dev** **Flags**

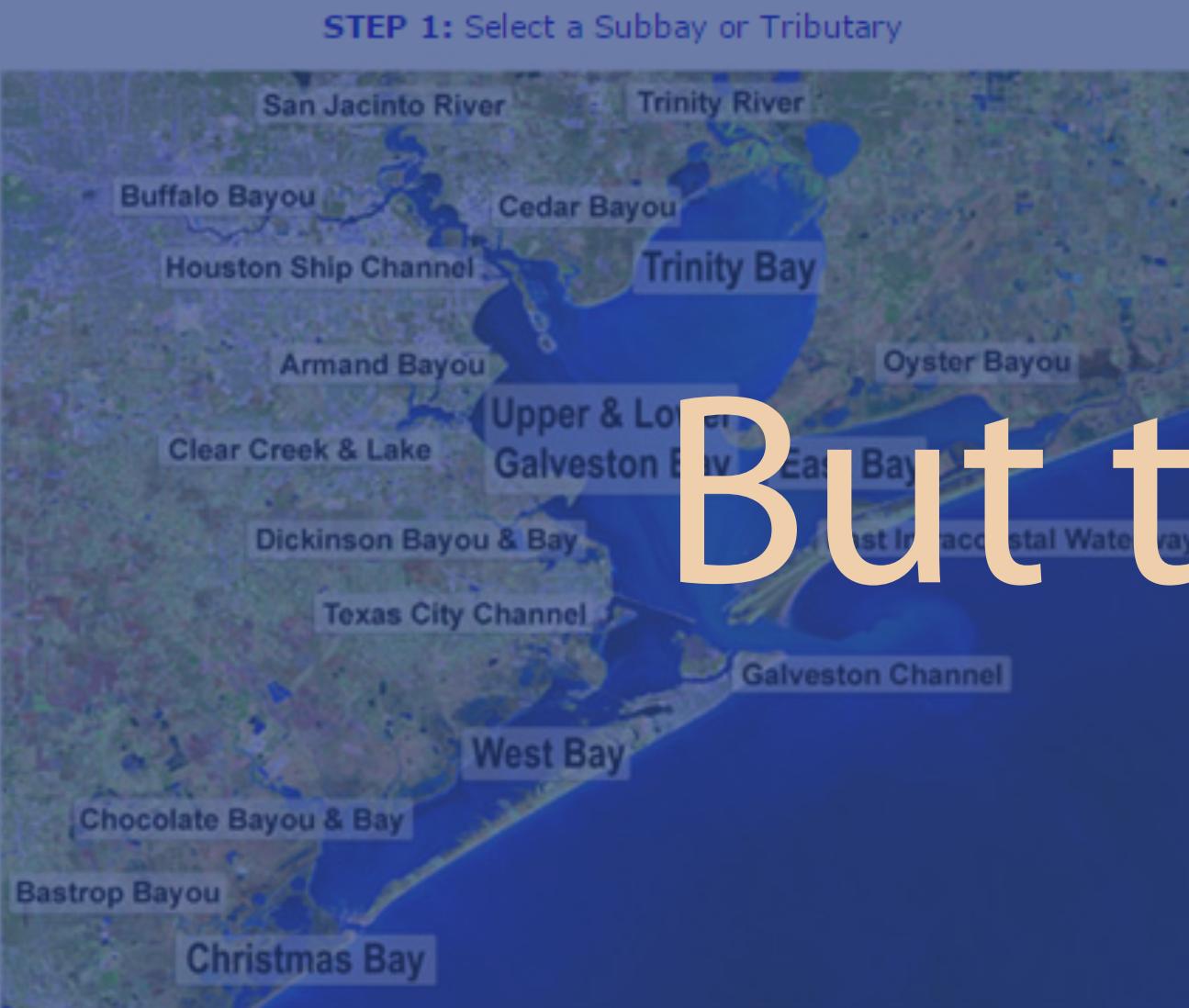
1968		*	
1969	6	2.5	*
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1972	14	6.32	
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WATER AND SEDIMENT QUALITY

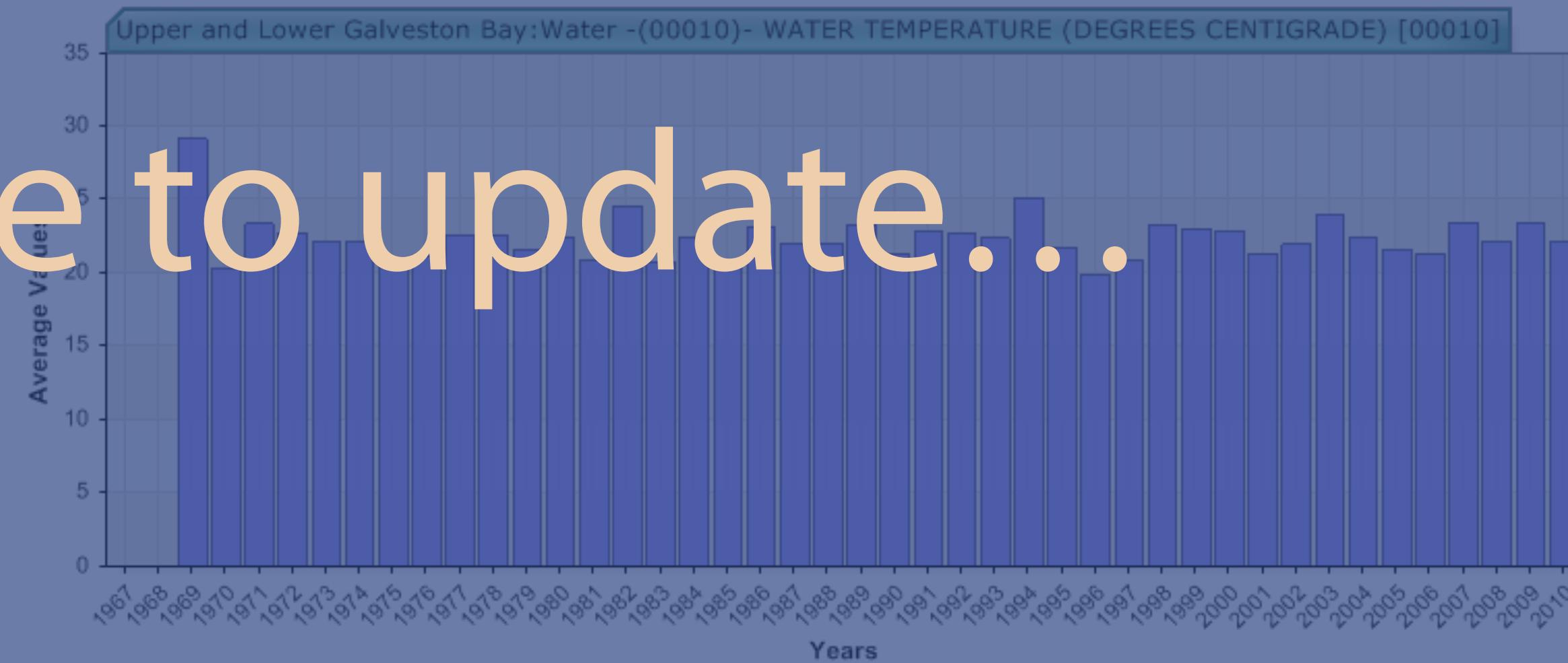
[Home](#) | [Water and Sediment v](#) | [Living Resources v](#)

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



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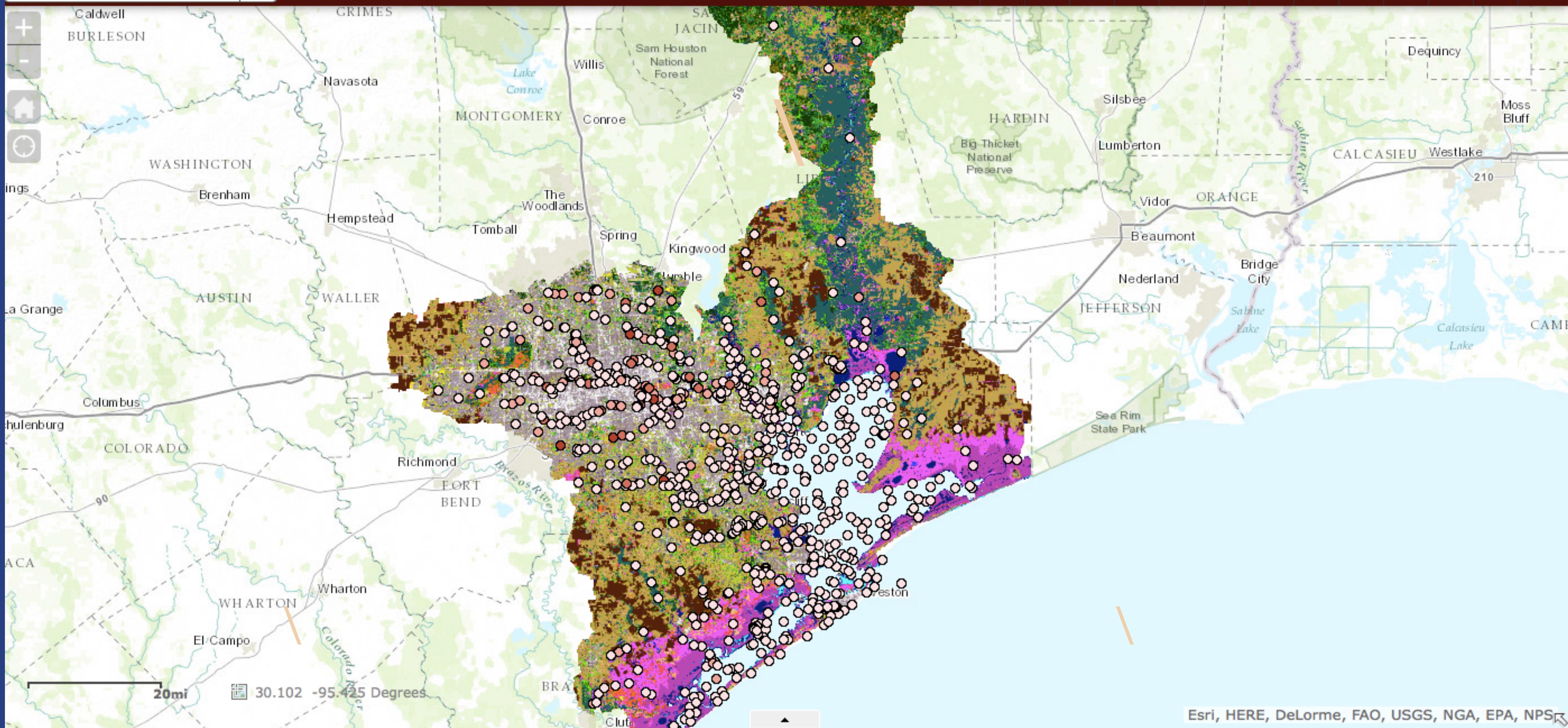
Years	Sample Size	Std Dev	Flags
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1968			*
1969	6	2.5	*
1970	13	9.59	
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2004	21.58
2005	21.58
2006	21.58
2007	21.58
2008	21.58
2009	21.58
2010	21.58

But time to update...

Search Location



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

A wide-angle photograph of a vast ocean under a dramatic sky. The upper half of the image is filled with large, billowing cumulus clouds, some bright white and others dark grey. The horizon line is visible in the distance, where the dark grey sky meets the lighter grey-blue of the ocean. A single fishing boat with a tall mast is positioned in the lower right quadrant of the frame, appearing very small against the vastness of the water and sky.

3 focal areas

1. Updating the data

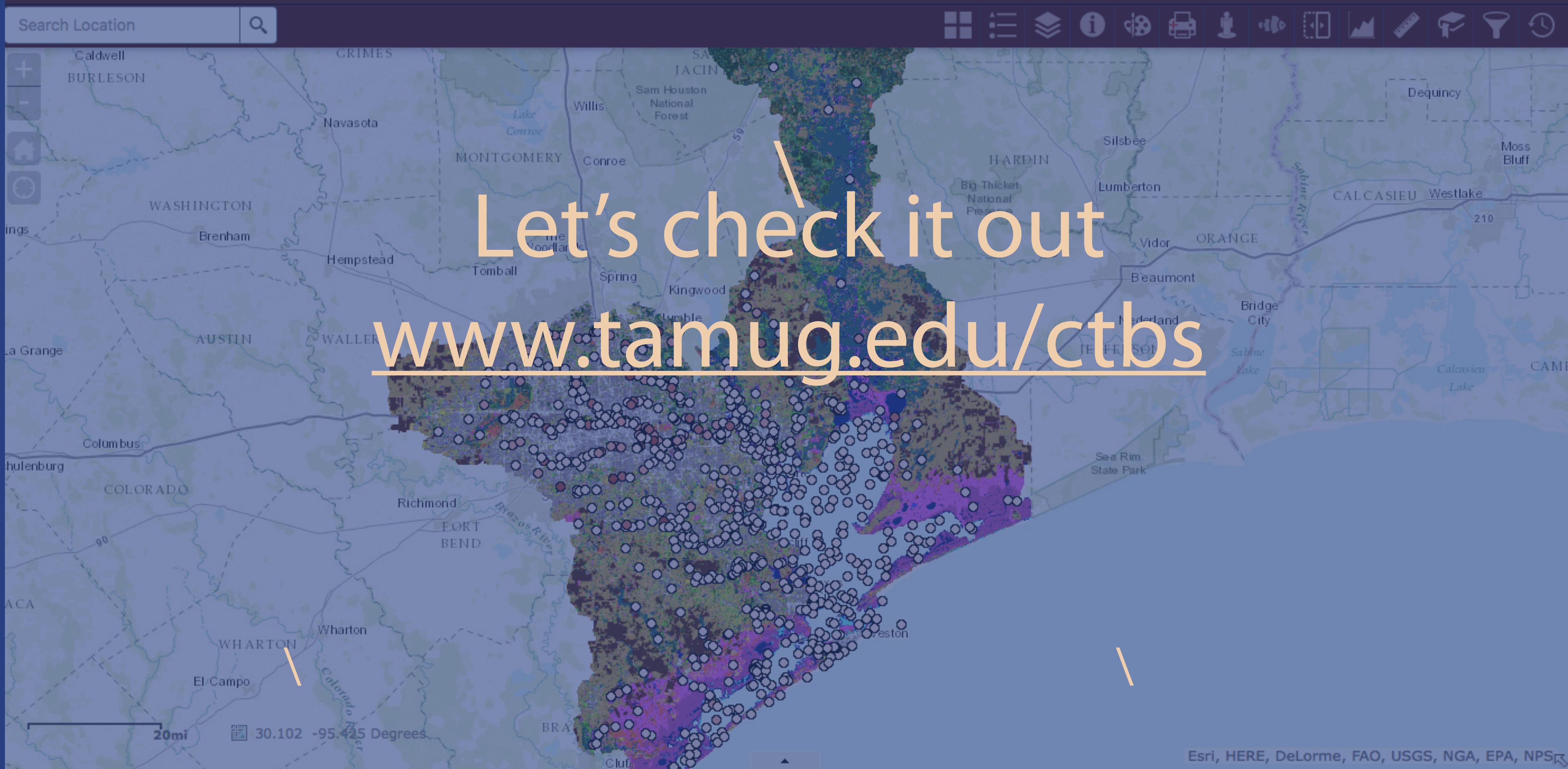
Updated Data

- 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

The background of the slide features a wide-angle photograph of a vast, dark sea under a sky filled with heavy, white and grey clouds. A small, white fishing boat is positioned in the lower center of the frame, appearing as a tiny dot against the vast expanse.

2. Integrating with a
ground-breaking
social data atlas

3. Creating detailed metadata



Dr. Sam Brody