LPBF
SAVE OUR LAKE
SAVE OUR COAST
LAKE PONTCHARTRAIN BASIN FOUNDATION

Coastal Sustainability Program

Hydrocoast Maps

On the Coast, rainfall mixes with seawater from the Gulf, resulting in a coastal system called an estuary. The estuary is impacted by natural influences such as tides, rainfall, wind and human influences such as river diversions, altered hydrology and pollution.

The Hydrocoast maps were created to show how all the influences of the Pontchartrain Estuary interact. The maps provide real-time information and are released on a bi-weekly schedule.

Currently, there are five maps available that show conditions and information relevant to the Pontchartrain Basin:

All Maps

- Water salinity contours across the basin
- Water salinity barriers (levees, roads, ridges, canals)
- Water salinity leak points (gates, raised roads, bayous)

Salinity Map

- Discharge from rivers, diversions and Mississippi River Outlets
- Land loss and land gain

Habitat Map

- Marsh habitat types across the basin (swam, fresh, brackish etc.)
- Soil water salinity contours

Weather Map

- Rainfall
- Wind direction and speed
- Discharge from rivers and Mississippi River outlets

Water Quality Map

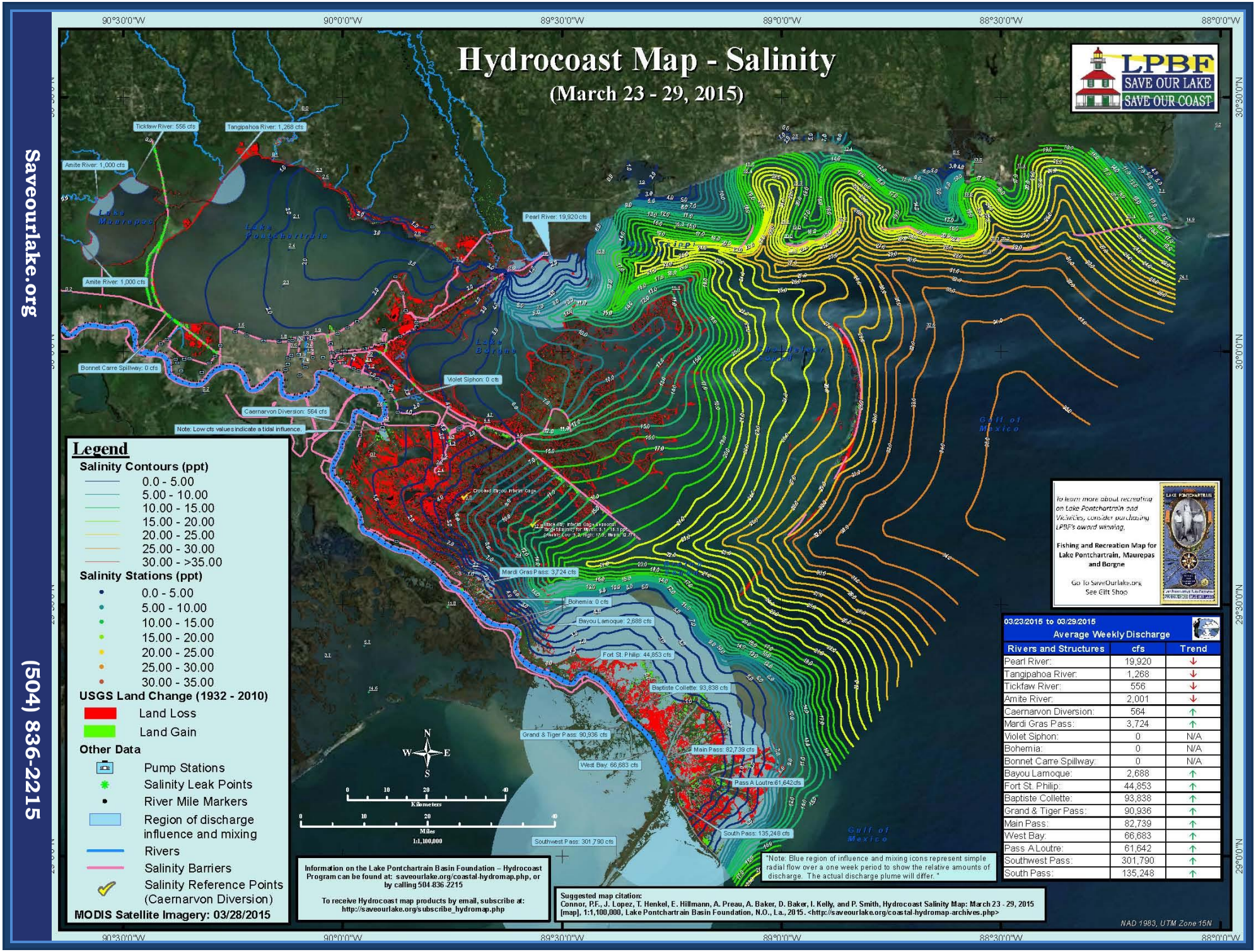
- Fecal coliform counts around Lake Pontchartrain
- Impaired waterbodies
- Discharge from rivers and Mississippi River outlets

Biological Map

- Oyster harvest area closure
- Public oyster seed grounds
- Aerial shrimp and oyster fleet surveys
- Market prices for oyster, crab, crawfish and shrimp

For more information on the Hydrocoast maps, to view archived maps or to subscribe to receive the maps through email please visit: **http://saveourlake.org/coastal-hydromap.php**

Turn over for an example of the Salinity Hydrocoast Map


Hydrocoast Map - Salinity
(March 23 - 29, 2015)
LPBF
SAVE OUR LAKE
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Saveourlake.org
(504) 836-2215
90°30'0"W
90°0'0"W
89°30'0"W
89°0'0"W
88°30'0"W
88°0'0"W
30°30'0"N
30°0'0"N
29°30'0"N
29°0'0"N
Ticklaw River: 556 cfs
Tangipahoa River: 1,268 cfs
Amite River: 1,000 cfs
Amite River: 1,000 cfs
Pearl River: 19,920 cfs
Bonnet Carre Spillway: 0 cfs
Violet Siphon: 0 cfs
Caernarvon Diversion: 564 cfs
Note: Low cfs values indicate a tidal influence.
Crooked Bayou Inflow Gage
Mardi Gras Pass: 3,724 cfs
Bohemia: 0 cfs
Bayou Lamoque: 2,688 cfs
Fort St. Philip: 44,853 cfs
Baptiste Collette: 93,838 cfs
Grand & Tiger Pass: 90,936 cfs
Main Pass: 82,739 cfs
West Bay: 66,683 cfs
Pass A Loutre: 61,642cfs
South Pass: 135,248 cfs
Southwest Pass: 301,790 cfs
Lake Maurepas
Lake Pontchartrain
Lake Borgne
Mississippi Coast
Gulf of Mexico
Legend
Salinity Contours (ppt)
0.0 - 5.00
5.00 - 10.00
10.00 - 15.00
15.00 - 20.00
20.00 - 25.00
25.00 - 30.00
30.00 - >35.00
Salinity Stations (ppt)
0.0 - 5.00
5.00 - 10.00
10.00 - 15.00
15.00 - 20.00
20.00 - 25.00
25.00 - 30.00
30.00 - 35.00
USGS Land Change (1932 - 2010)
Land Loss
Land Gain
Other Data
Pump Stations
Salinity Leak Points
River Mile Markers
Region of discharge influence and mixing
Rivers
Salinity Barriers
Salinity Reference Points (Caernarvon Diversion)
MODIS Satellite Imagery: 03/28/2015
N
W
E
S
0 10 20 40
Kilometers
0 10 20 40
Miles
1:1,100,000
Information on the Lake Pontchartrain Basin Foundation – Hydrocoast Program can be found at: saveourlake.org/coastal-hydromap.php, or by calling 504-836-2215
To receive Hydrocoast map products by email, subscribe at: http://saveourlake.org/subscribe_hydromap.php
"Note: Blue region of influence and mixing icons represent simple radial flow over a one week period to show the relative amounts of discharge. The actual discharge plume will differ."
Suggested map citation:
Connor, P.F., J. Lopez, T. Henkel, E. Hillmann, A. Preau, A. Baker, D. Baker, I. Kelly, and P. Smith, Hydrocoast Salinity Map: March 23 - 29, 2015 [map], 1:1,100,000, Lake Pontchartrain Basin Foundation, N.O., La., 2015. <http://saveourlake.org/coastal-hydromap-archives.php>
NAD 1983, UTM Zone 15N
To learn more about recreating on Lake Pontchartrain and Vicinities, consider purchasing LPBF's award winning,
Fishing and Recreation Map for Lake Pontchartrain, Maurepas and Borgne
Go To SaveOurlake.org
See Gift Shop
LAKE PONTCHARTRAIN
03/23/2015 to 03/29/2015
Average Weekly Discharge
Rivers and Structures | cfs | Trend
Pearl River: | 19,920 | ↓
Tangipahoa River: | 1,268 | ↓
Tickfaw River: | 556 | ↓
Amite River: | 2,001 | ↓
Caernarvon Diversion: | 564 | ↑
Mardi Gras Pass: | 3,724 | ↑
Violet Siphon: | 0 | N/A
Bohemia: | 0 | N/A
Bonnet Carre Spillway: | 0 | N/A
Bayou Lamoque: | 2,688 | ↑
Fort St. Philip: | 44,853 | ↑
Baptiste Collette: | 93,838 | ↑
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