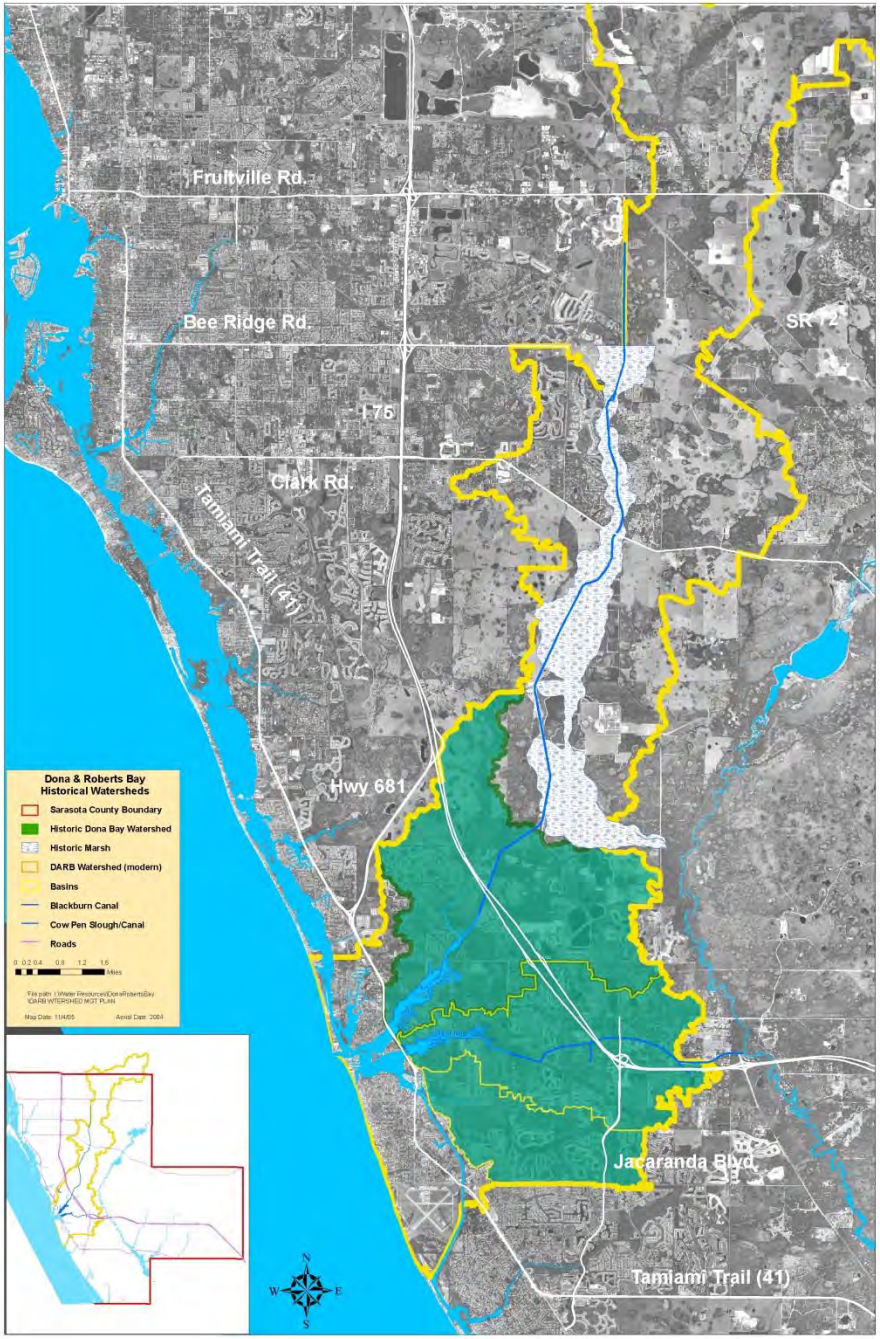
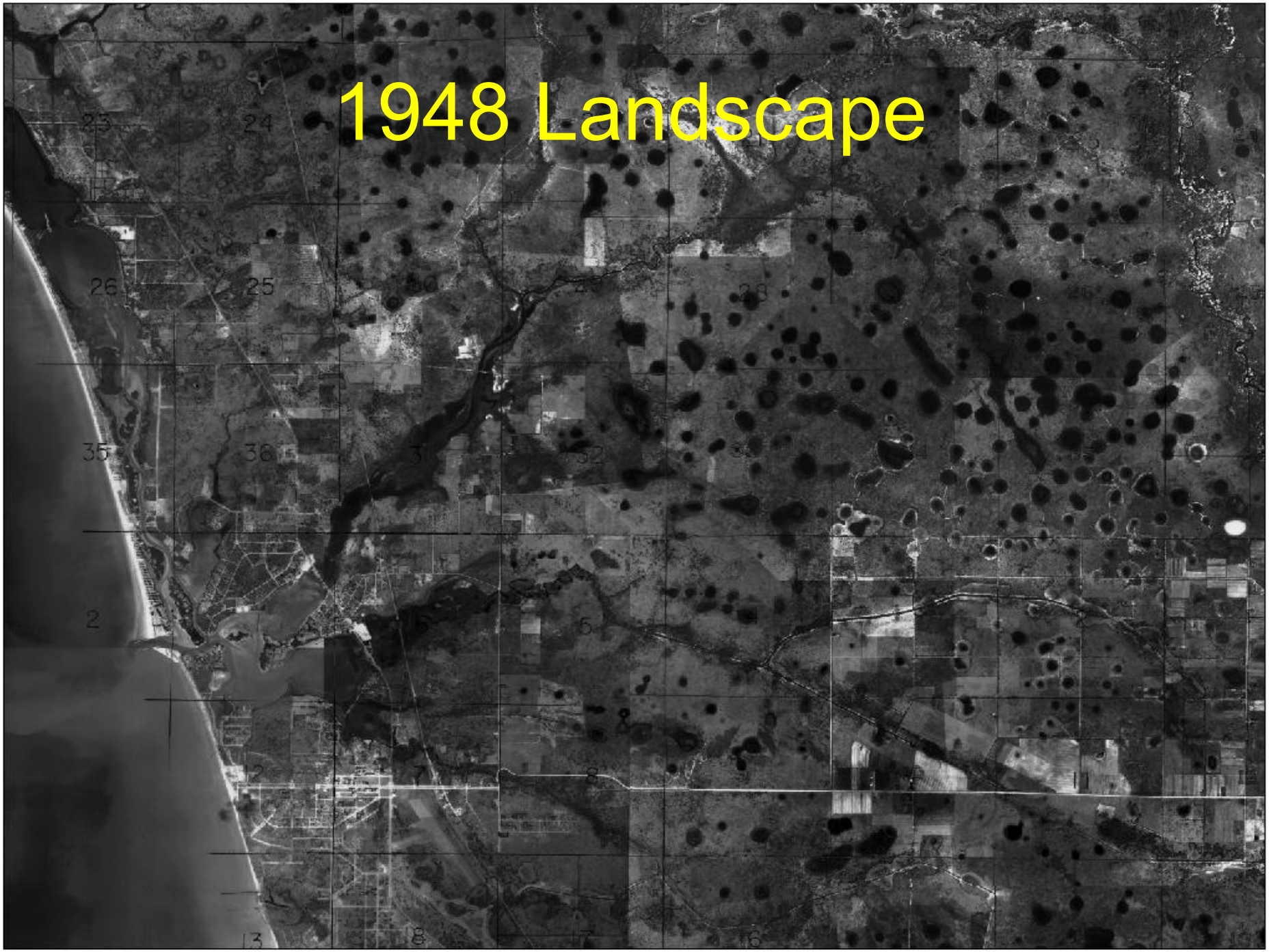
Roberts Bay Environmental Summary

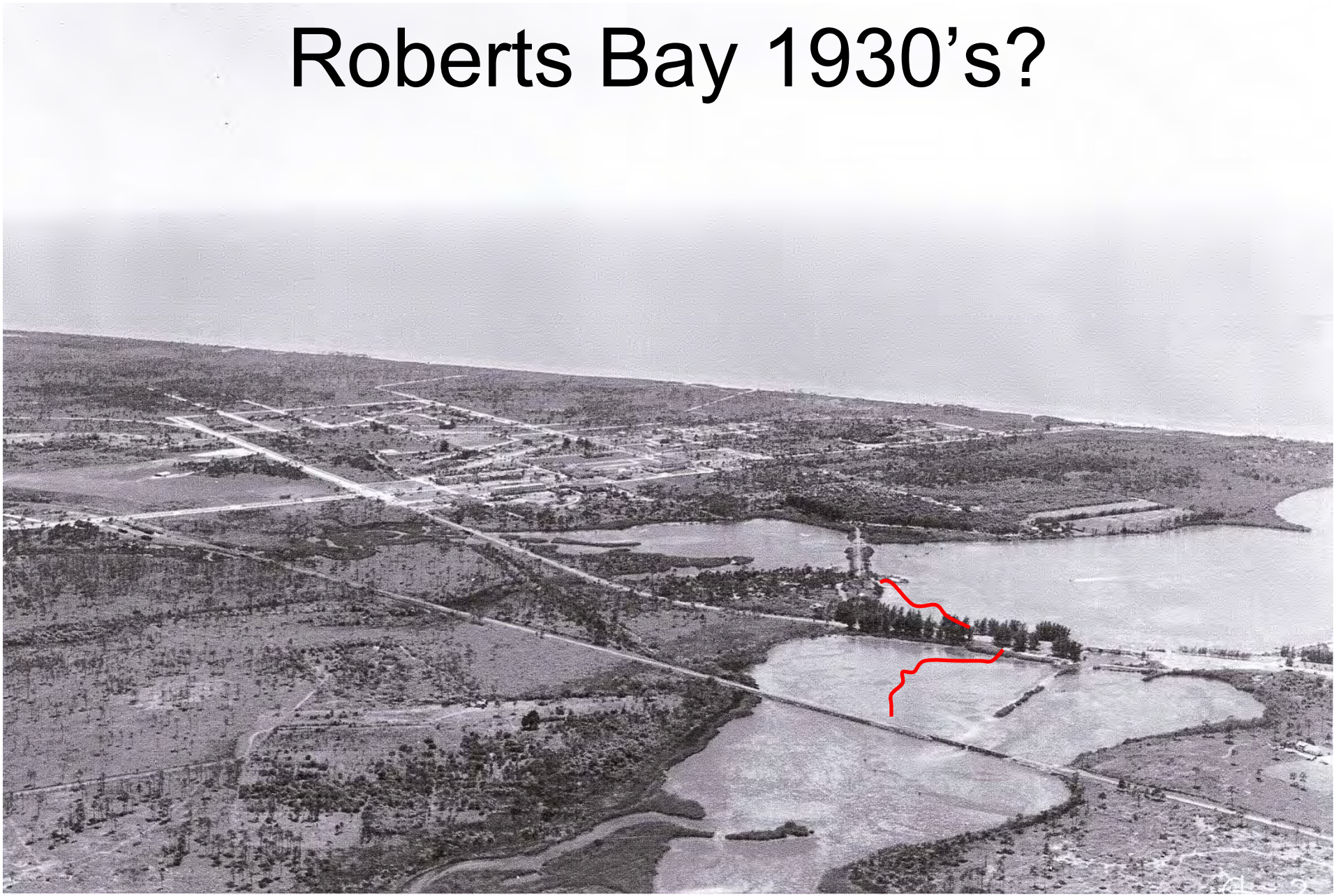


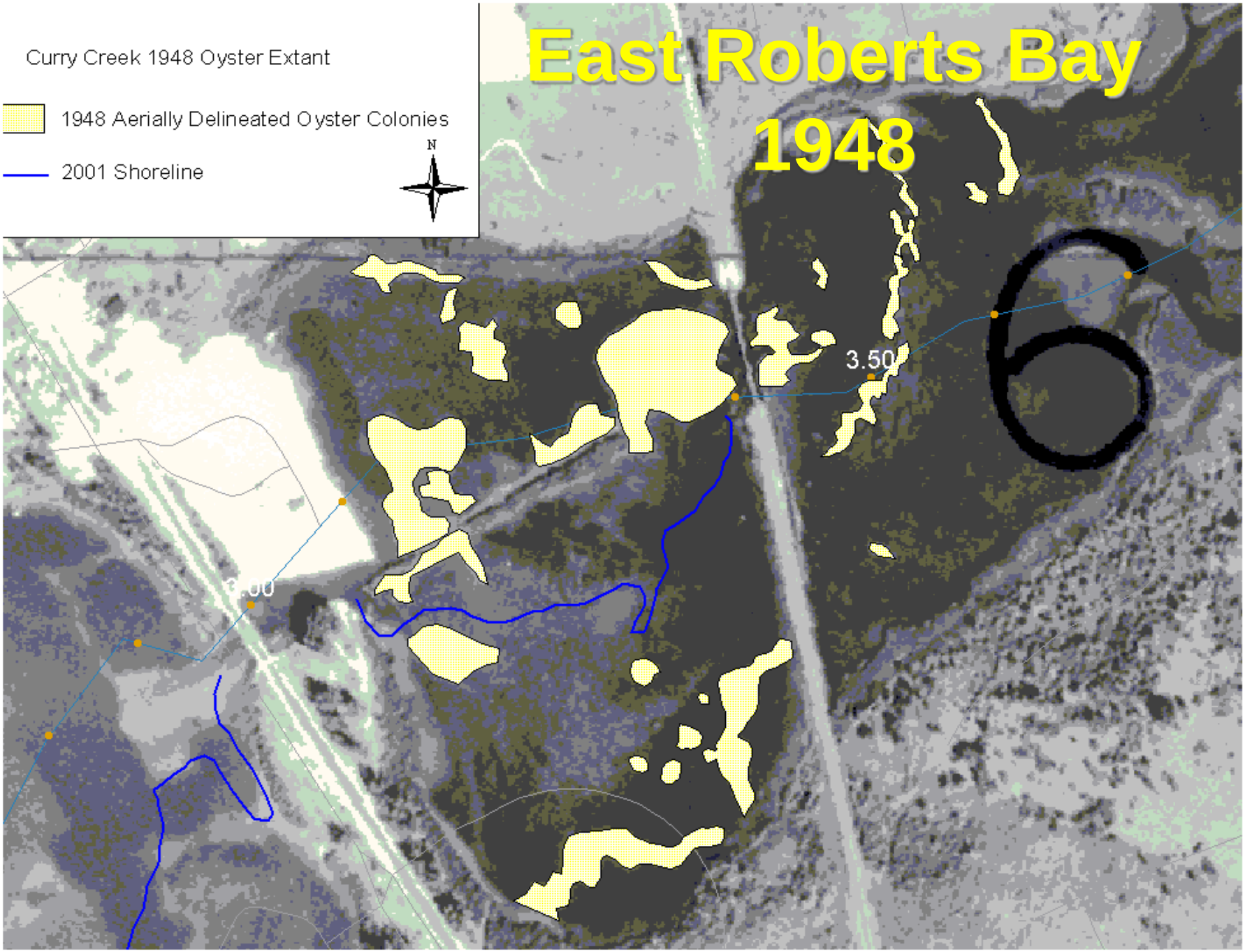
Watershed History

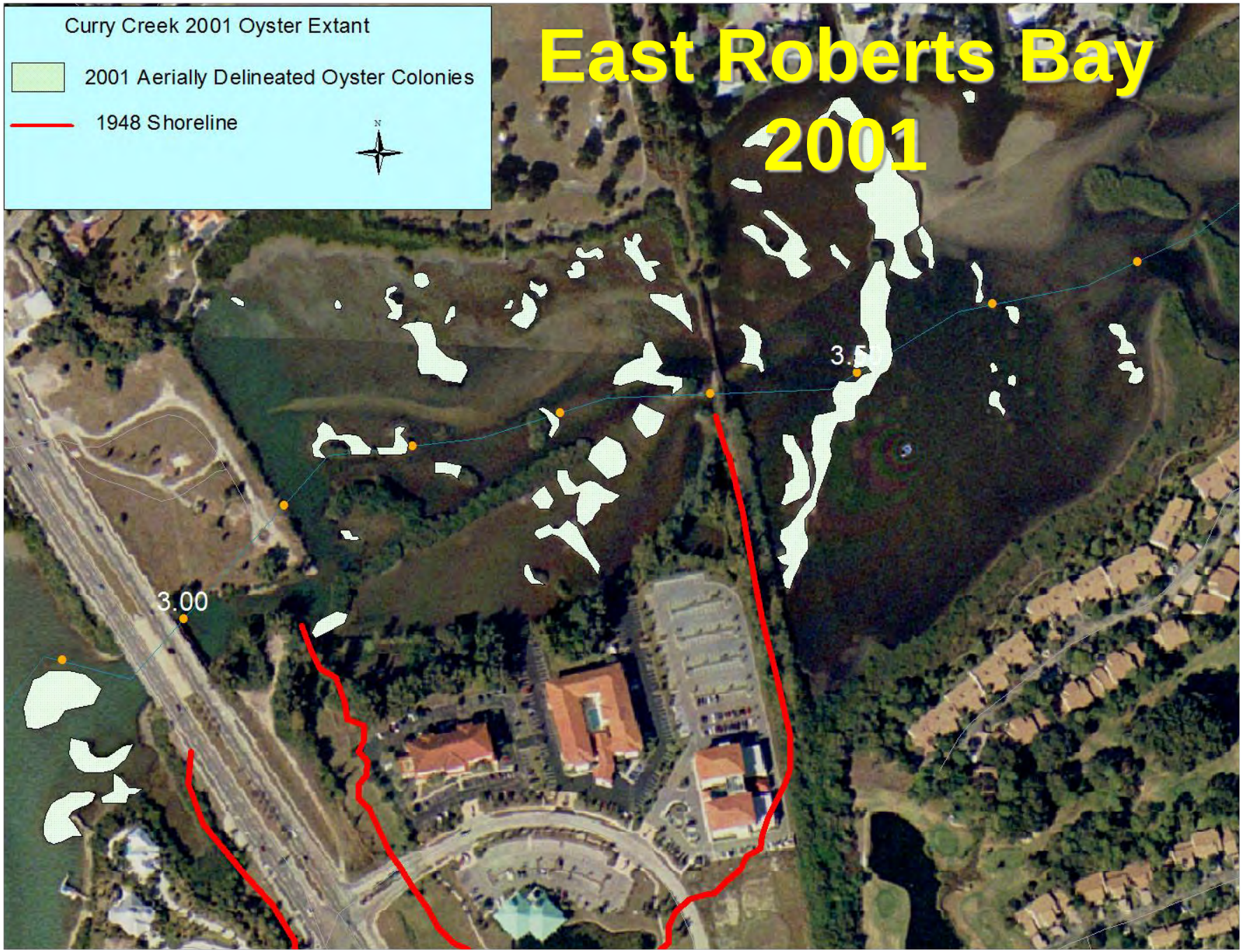
- U.S. Hwy 41 and Railroad Trestle
- Construction of Blackburn Canal
- Partial Filling of Roberts Bay
- Construction of Intracoastal Waterway


1948 Landscape

Roberts Bay 1930's?




Curry Creek 1948 Oyster Extant
1948 Aerially Delineated Oyster Colonies
2001 Shoreline
N
East Roberts Bay
1948
3.50


Curry Creek 2001 Oyster Extant
2001 Aerially Delineated Oyster Colonies
1948 Shoreline
N
East Roberts Bay
2001
3.00


2004 Landscape


Roberts Bay 2004

Estuaries

What is an estuary?

Fresh and Salt Water Meet

Highly Productive Habitat

Declining Health from Human Activities

Estuary Components

Seagrass

Oysters

Salinity

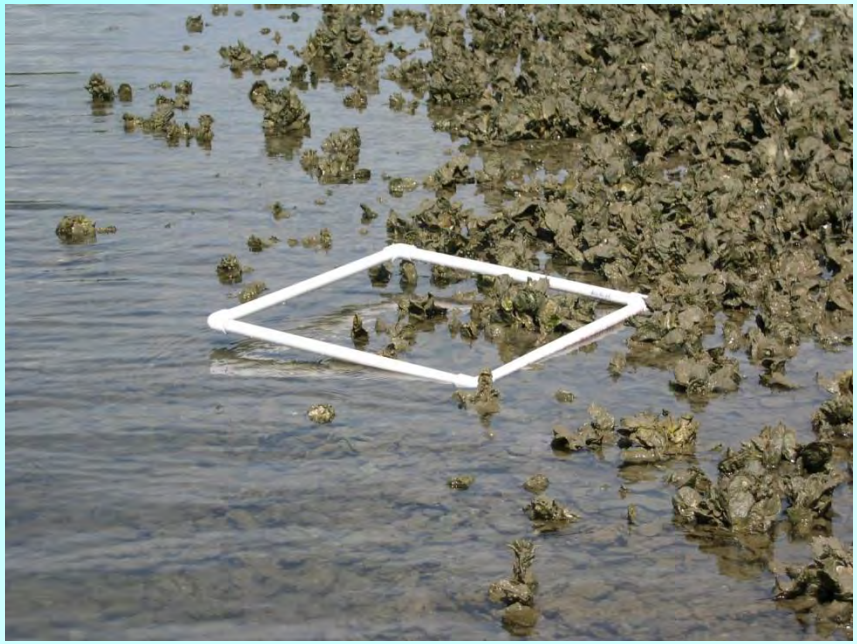
Other Organisms

Seagrass

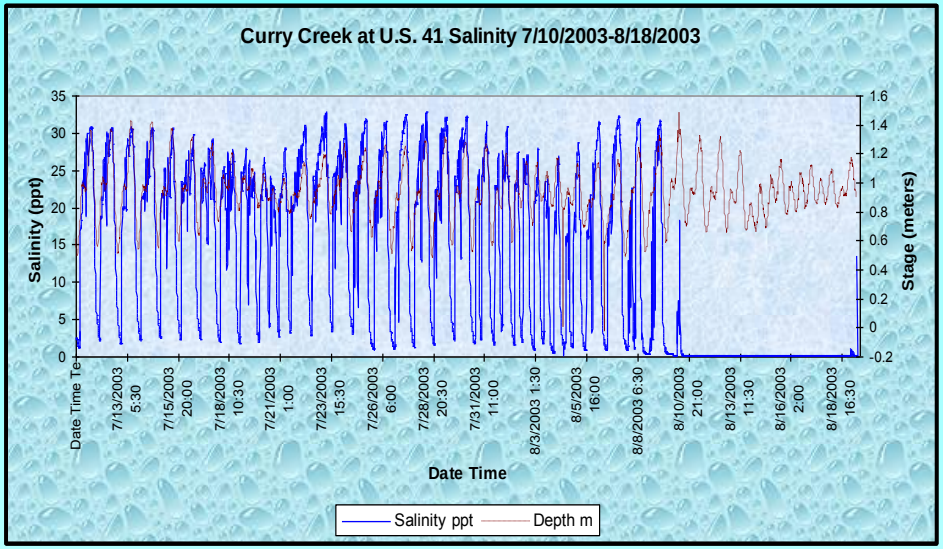
- Environmental Value
- Seagrass Life Requirements
- Aerial Mapping
- County Monitoring
- Thirty Percent Decline

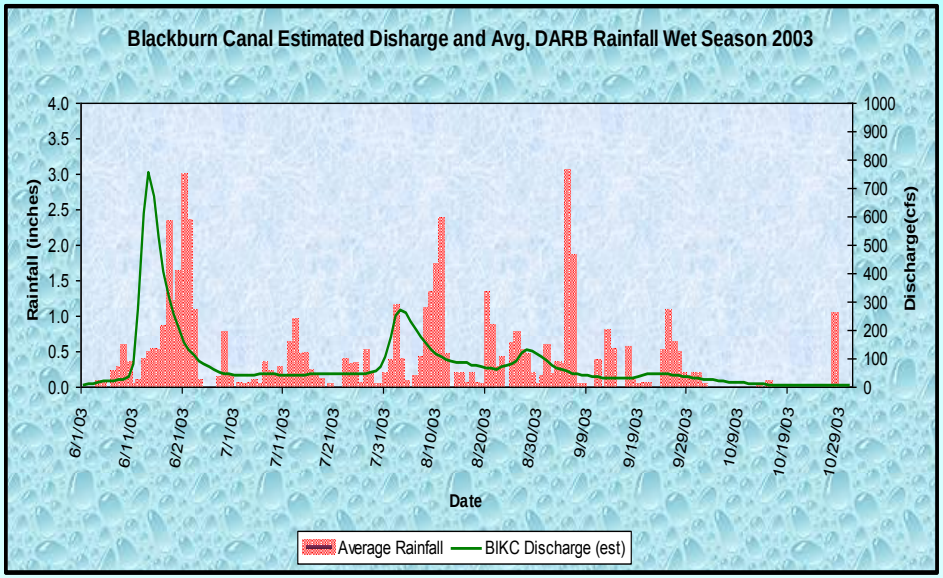
Oysters

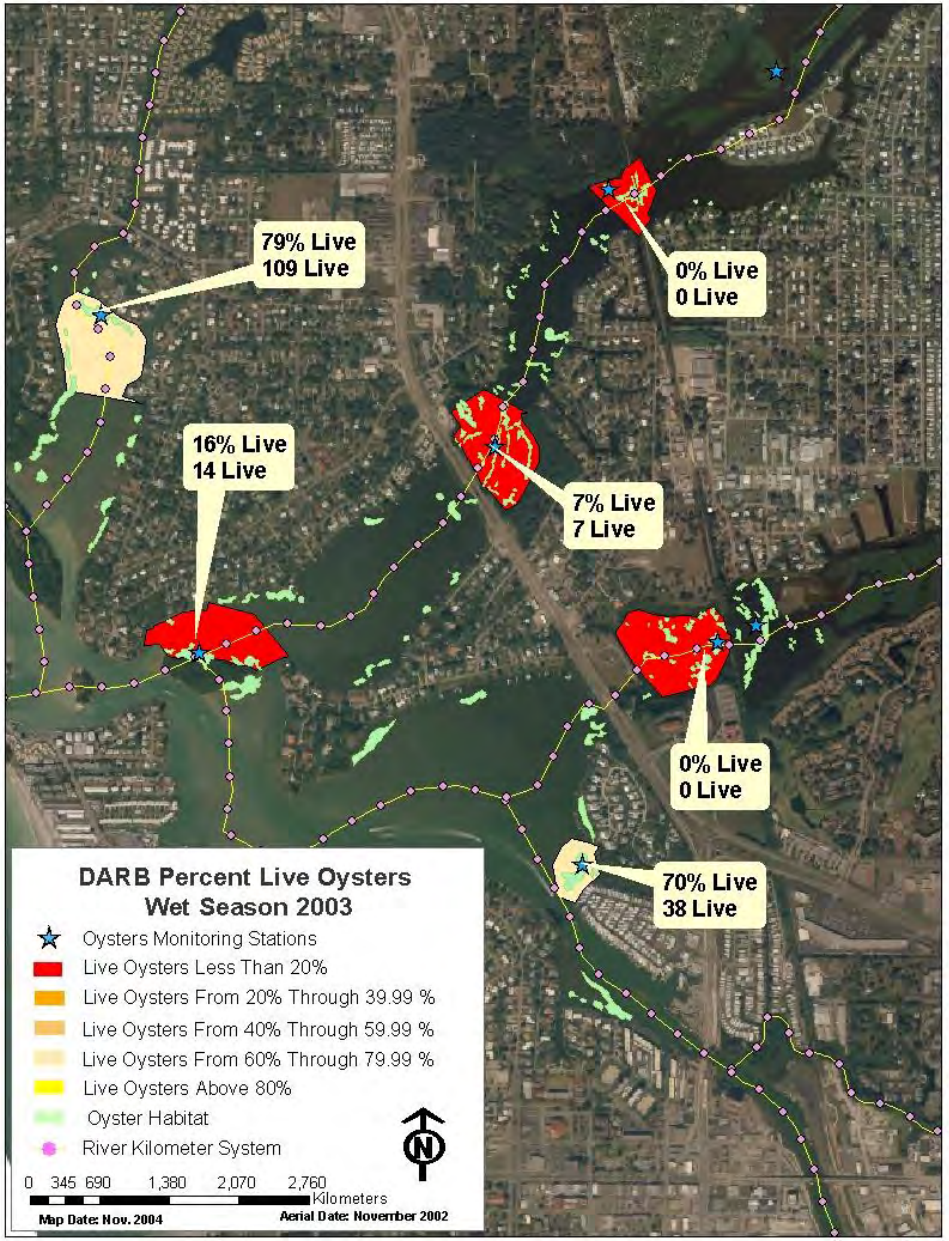
- Life Requirements
- Environmental Value
- Monitoring Results



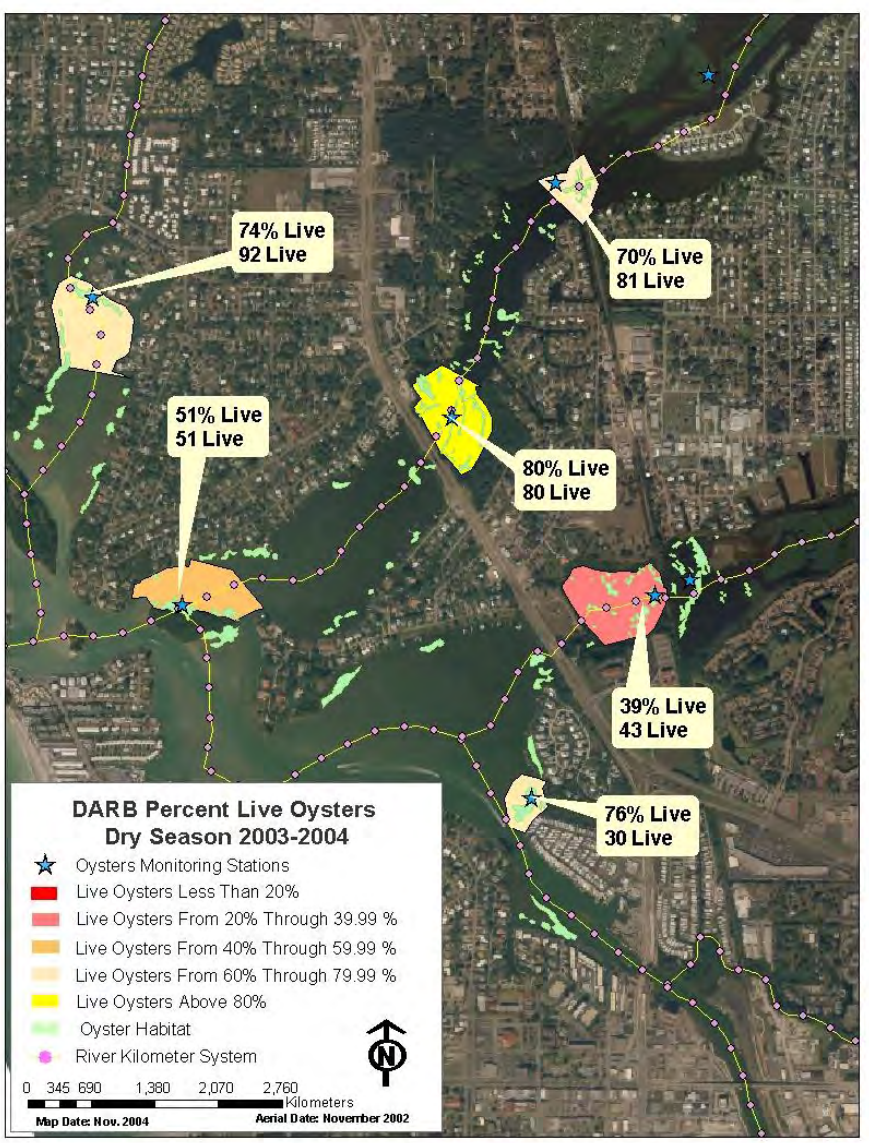
Oyster Monitoring Wet Season 2003



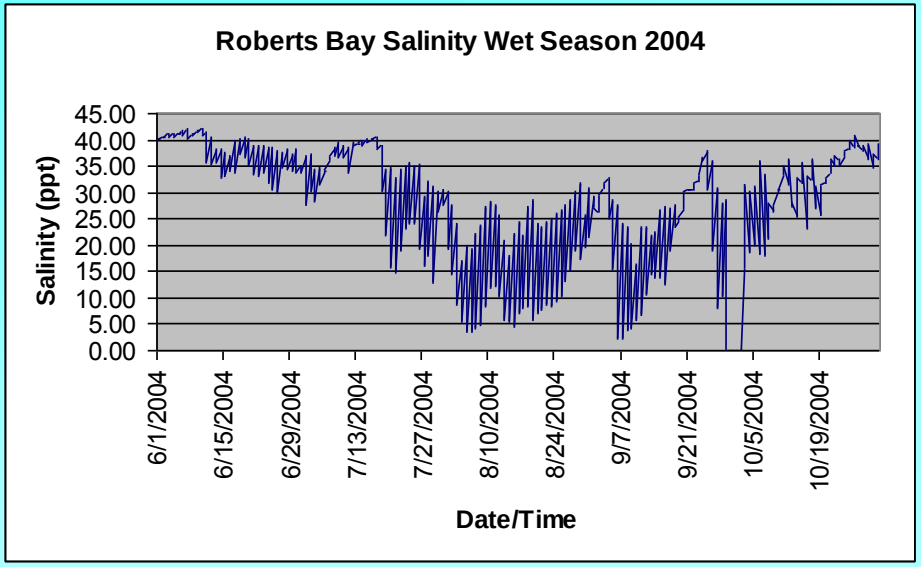


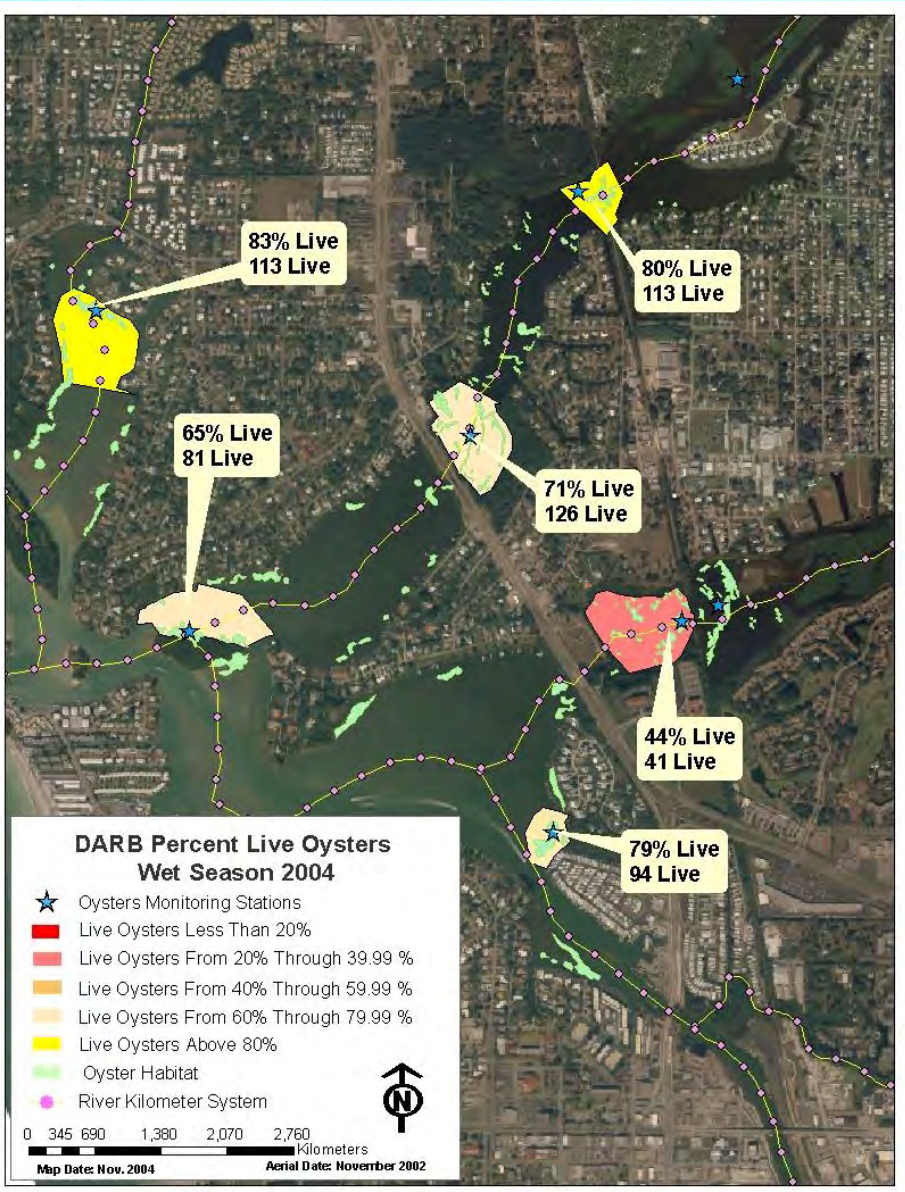


Oyster Monitoring Dry Season 2003-2004

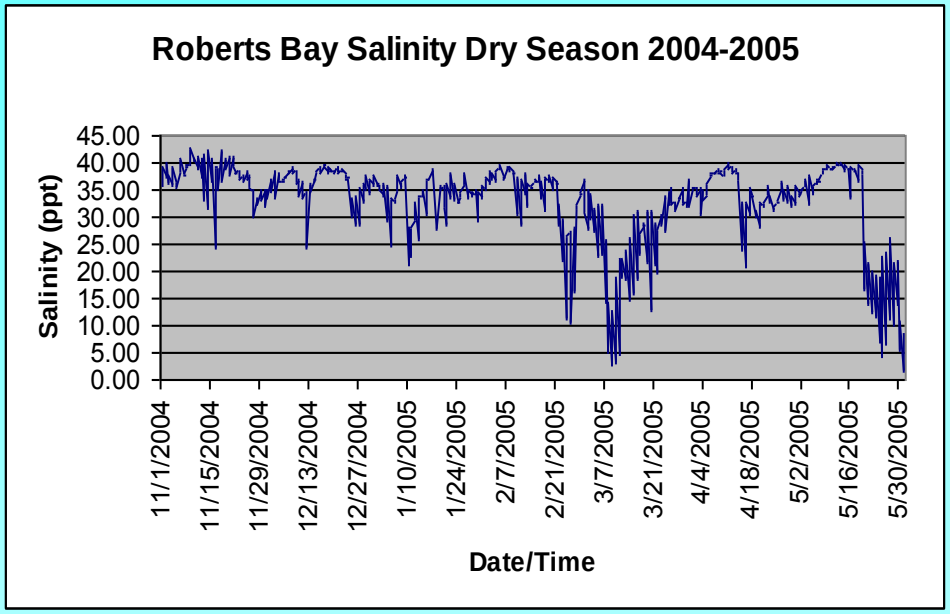


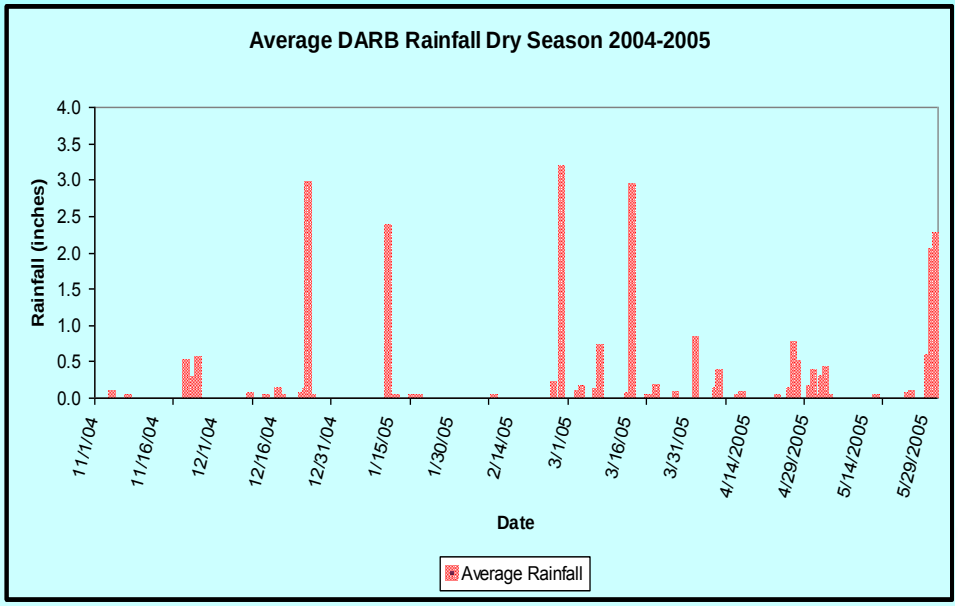
Oyster Monitoring Wet Season 2004

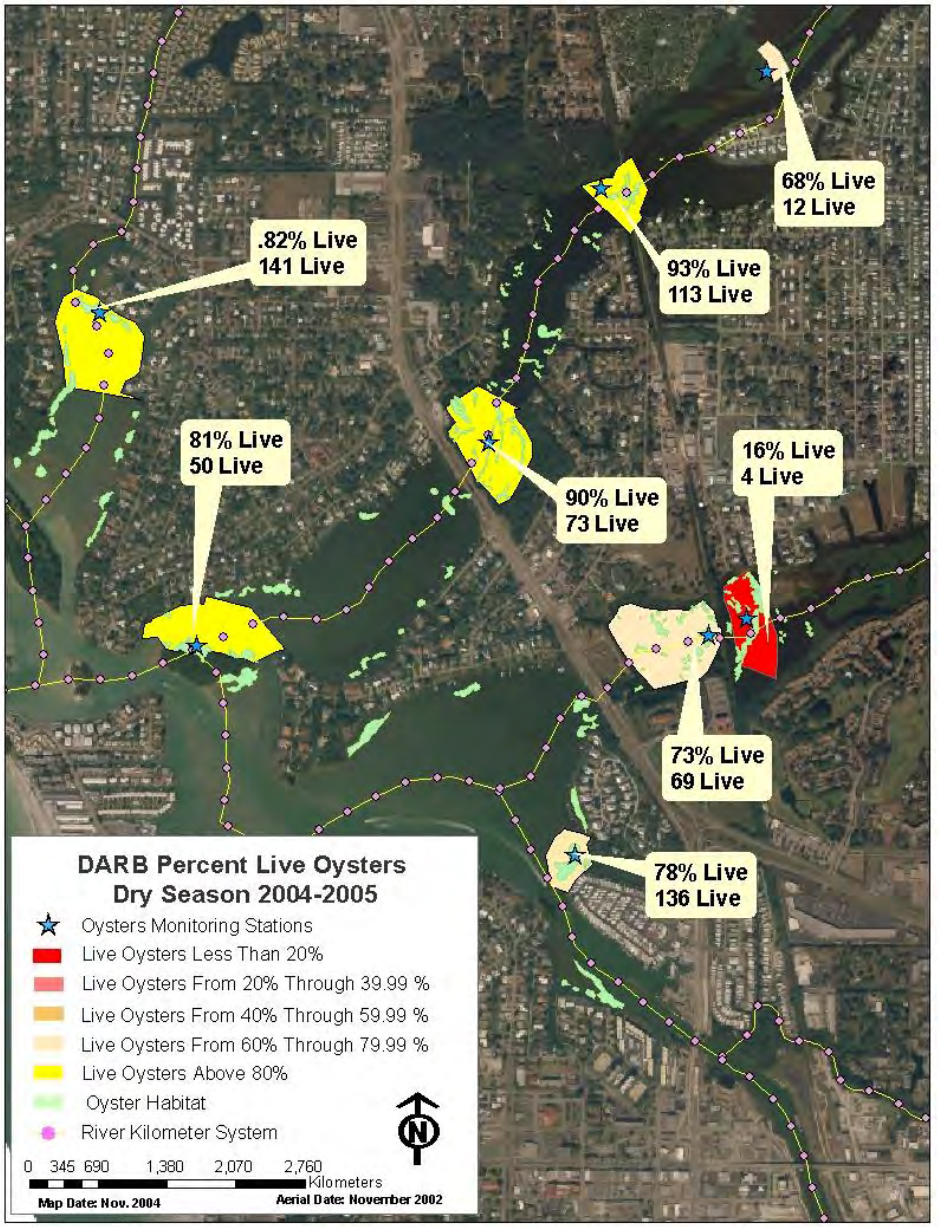




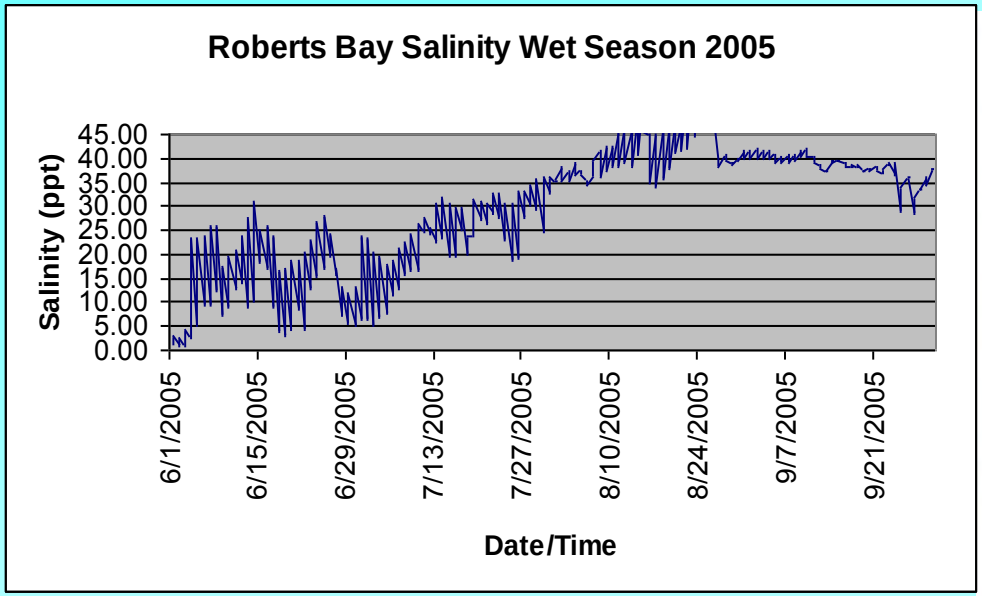
Oyster Monitoring Dry Season 2004-2005

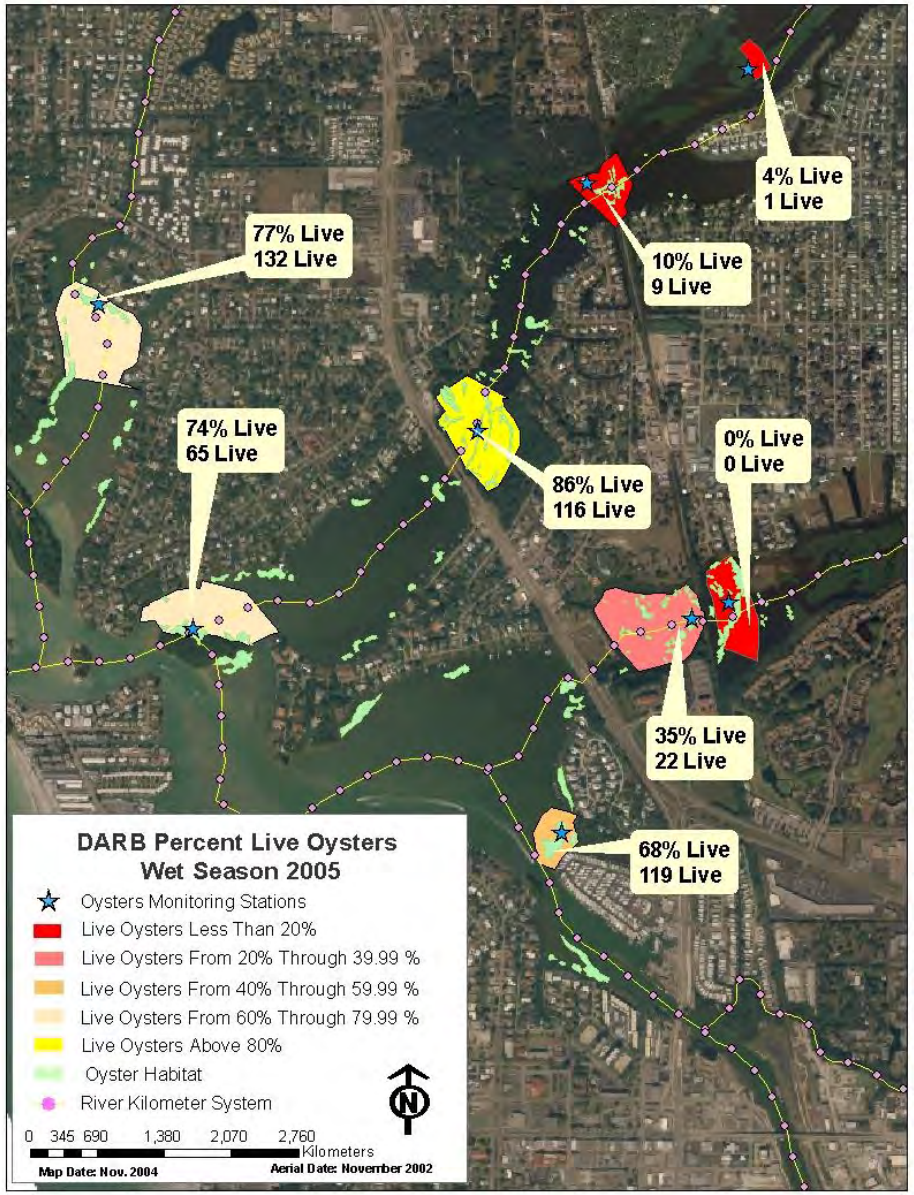




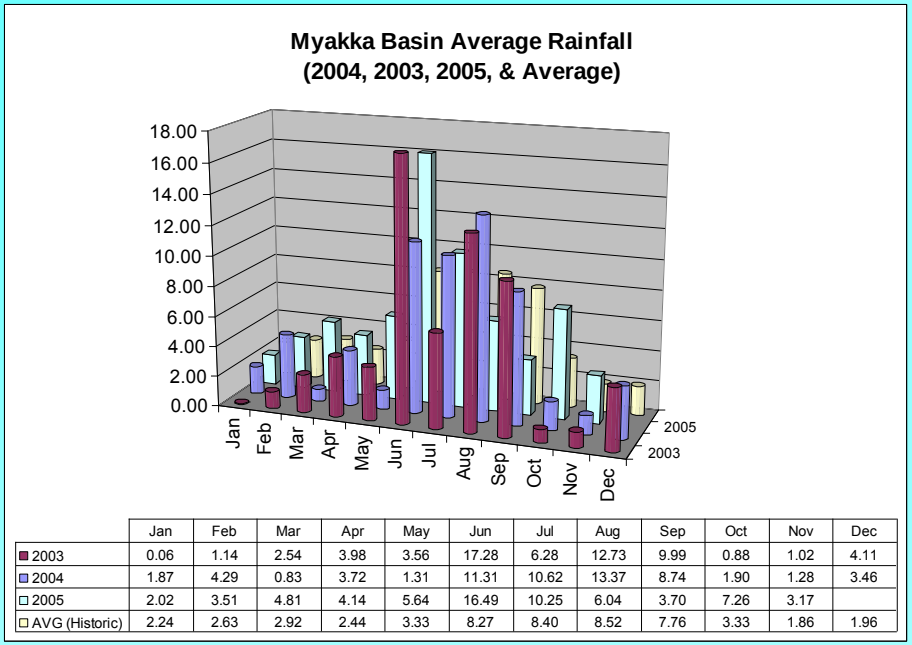


Oyster Monitoring Wet Season 2005

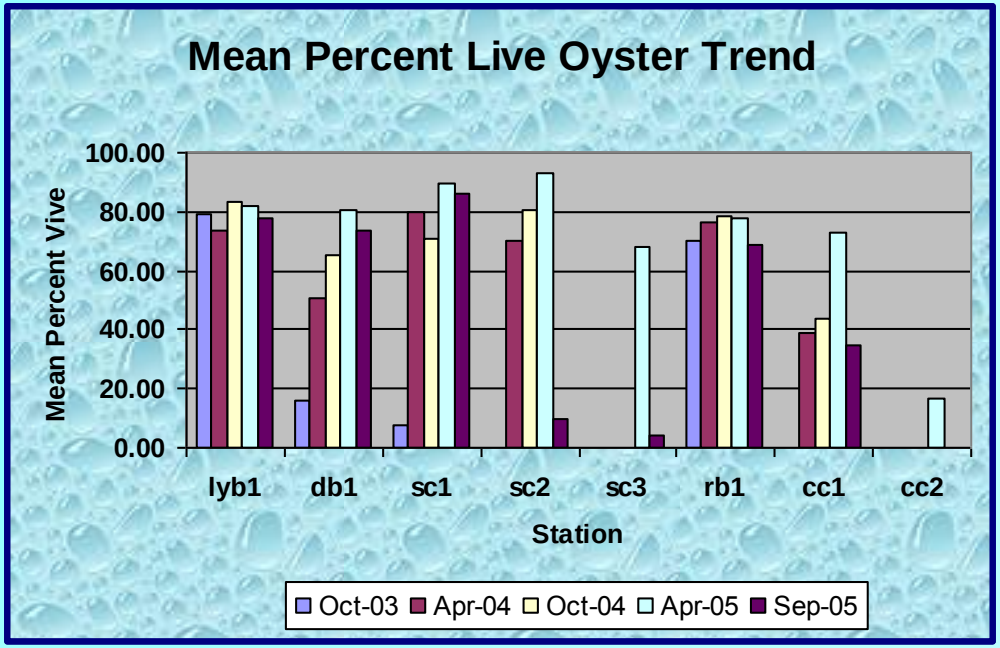




Monitoring Summary



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2003	0.06	1.14	2.54	3.98	3.56	17.28	6.28	12.73	9.99	0.88	1.02	4.11
2004	1.87	4.29	0.83	3.72	1.31	11.31	10.62	13.37	8.74	1.90	1.28	3.46
2005	2.02	3.51	4.81	4.14	5.64	16.49	10.25	6.04	3.70	7.26	3.17	
AVG (Historic)	2.24	2.63	2.92	2.44	3.33	8.27	8.40	8.52	7.76	3.33	1.86	1.96



- Highly altered system
- Very little natural shoreline
- High un-natural fluctuations in salinity
- Sparse seagrass coverage with little diversity
- Oyster die off every two to three years

Environmental Summary

- Highly altered system
- Very little natural shoreline
- High un-natural fluctuations in salinity
- Sparse seagrass coverage with little diversity
- Oyster die off every two to three years

What can we do?

- Avoid motorized boating in sensitive areas
- Environmentally friendly shoreline hardening
- Vegetated buffers along shorelines
- Proper use and disposal of fertilizers pesticides and other toxins
- Support habitat restoration efforts

Sarasota County Curry Creek Restoration Projects