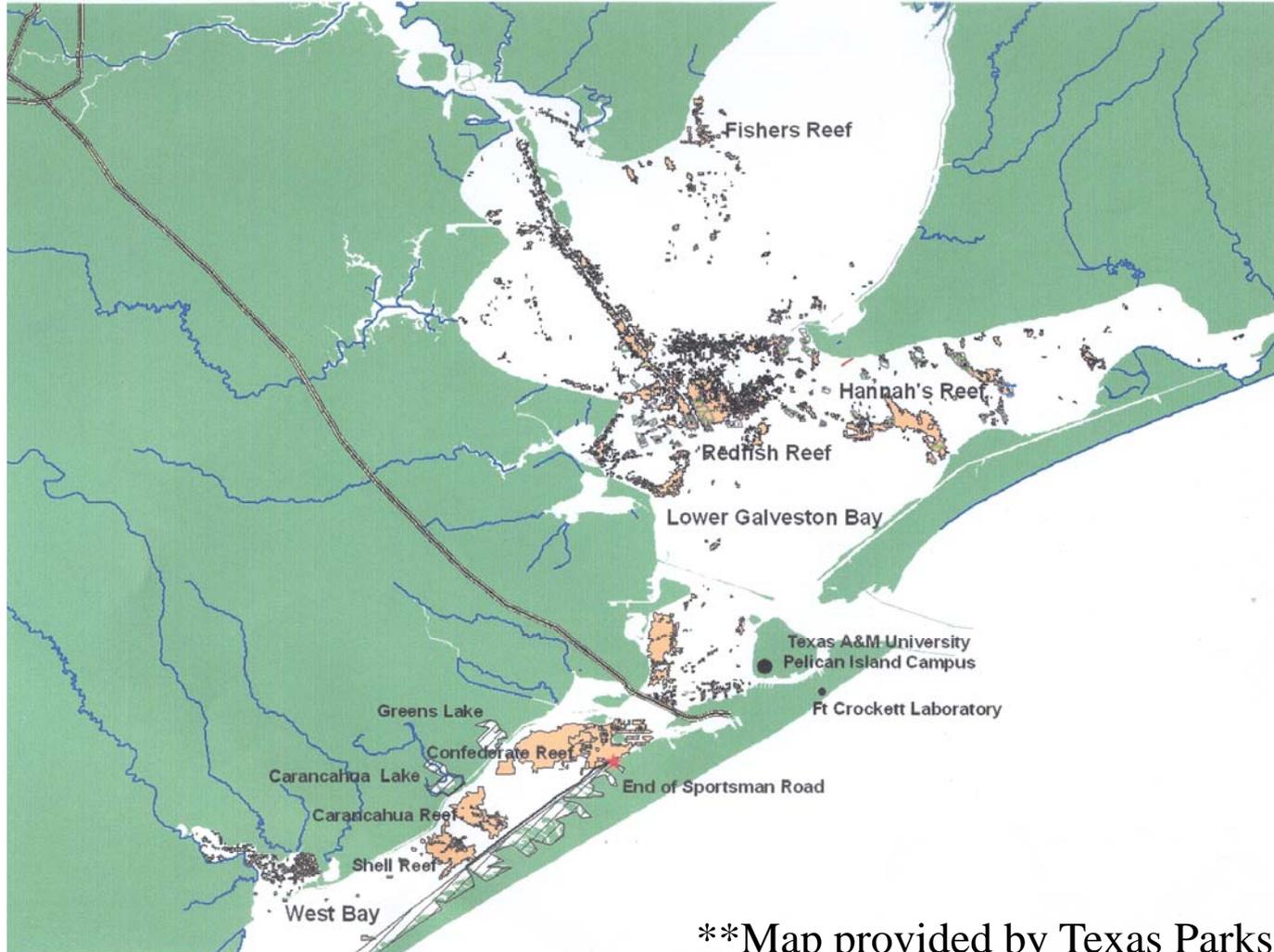


Galveston Bay System Oyster Reefs

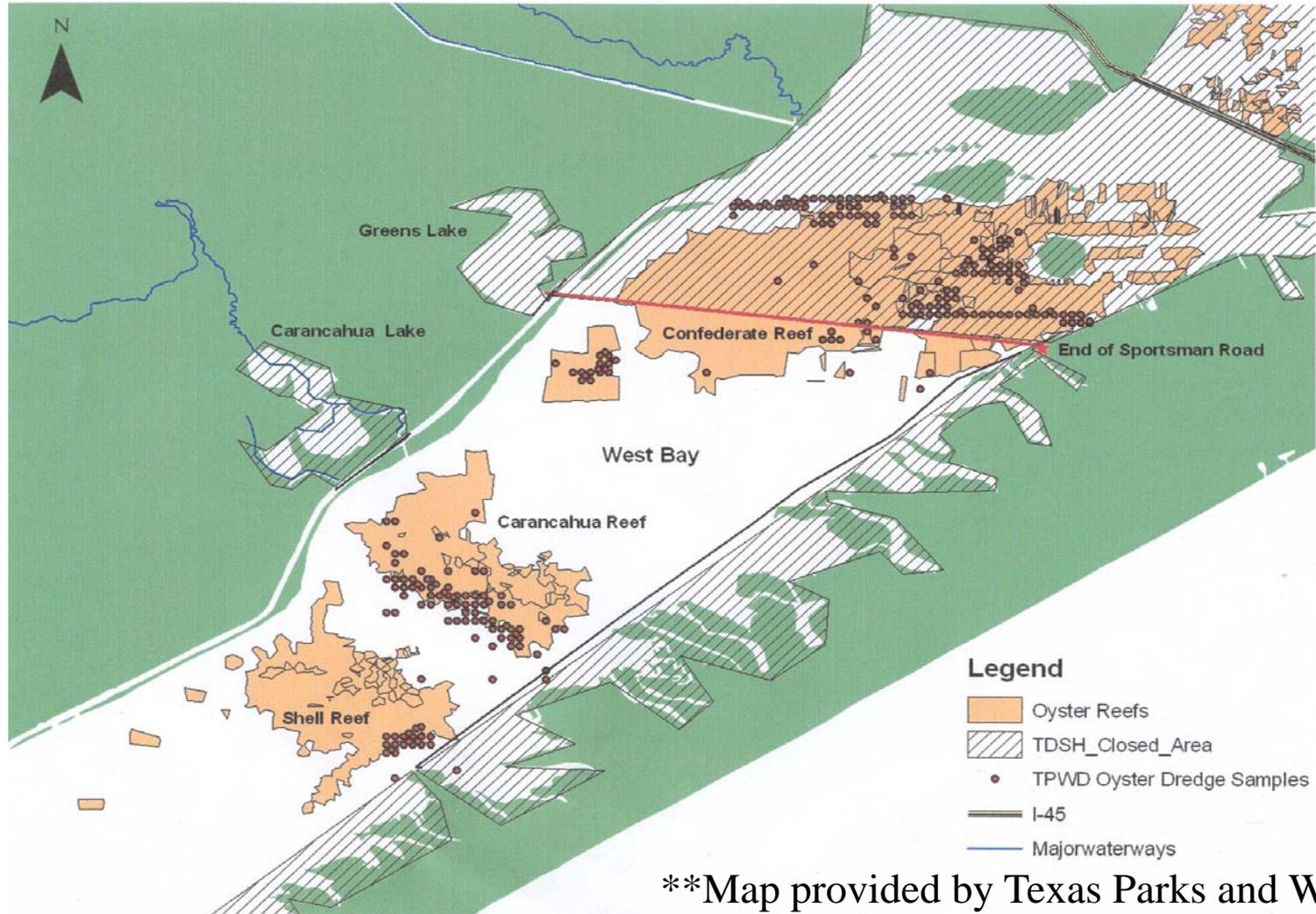
Sammy Ray, Texas A&M University at
Galveston, Galveston, TX

Galveston Bay System



Map provided by Texas Parks and Wildlife

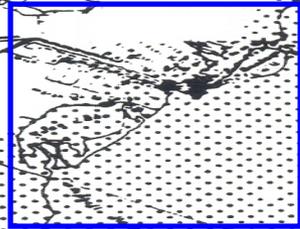
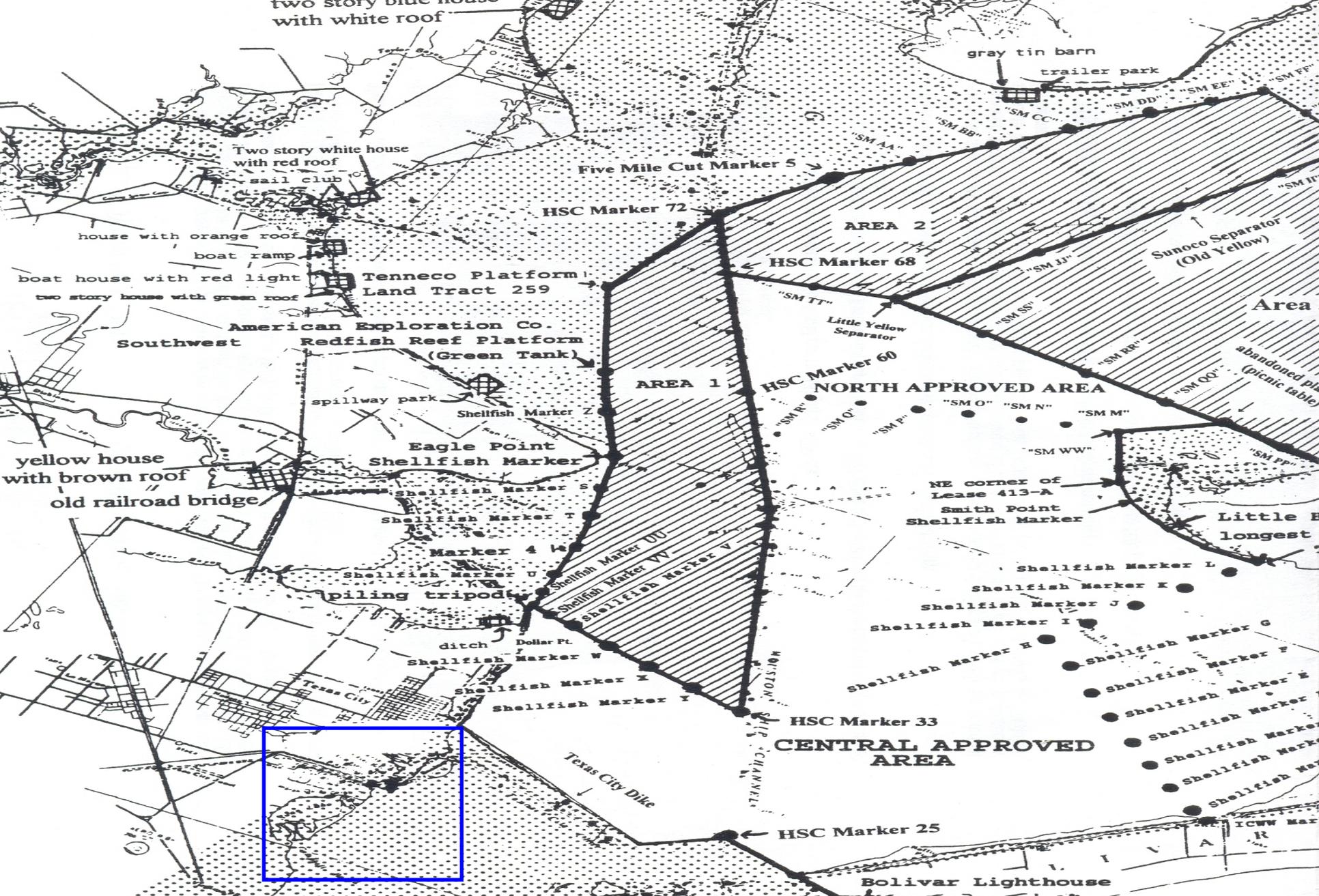
West Bay- Galveston System



Map provided by Texas Parks and Wildlife

Confederate Reef, West Bay-Galveston System





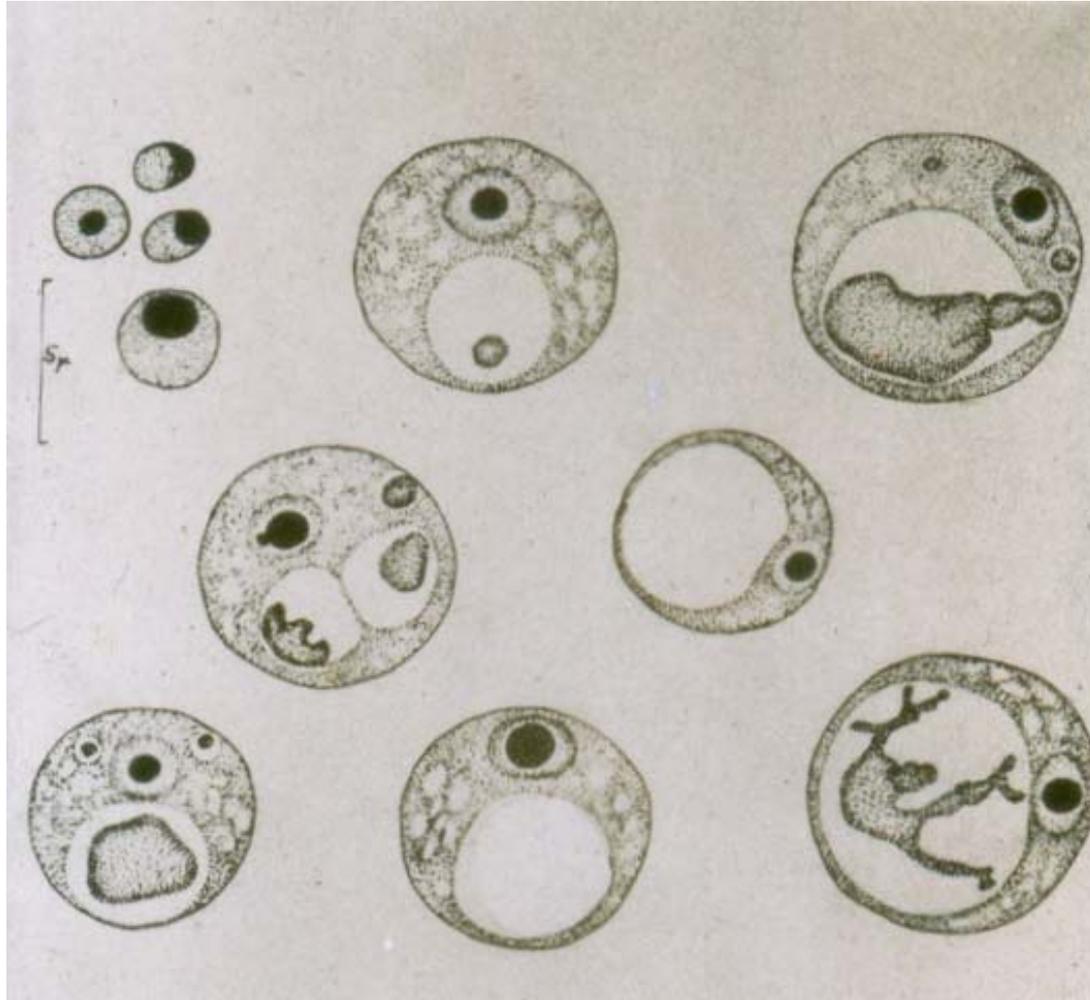
Swan Lake Area

Map provided by Texas Public Health Service

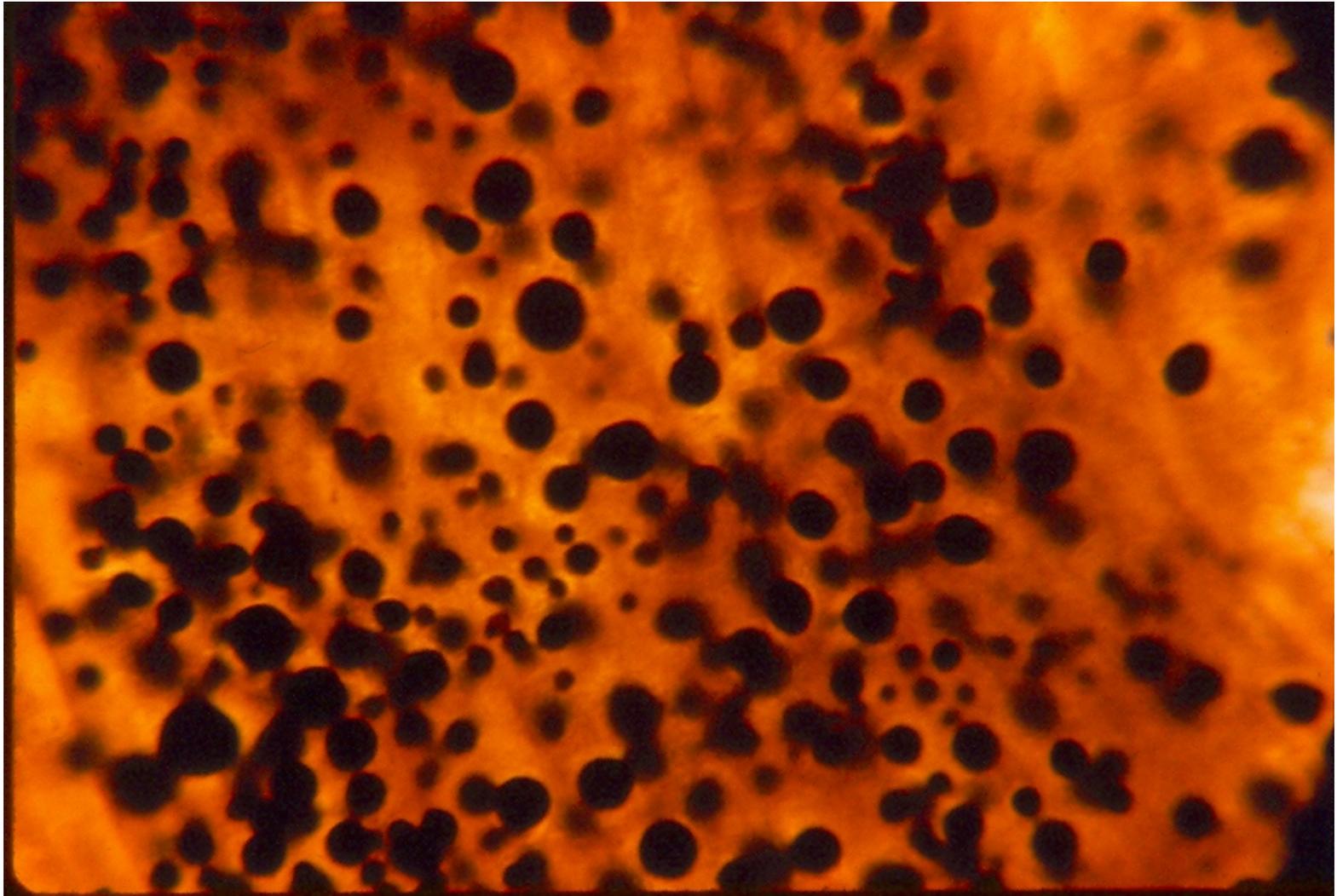
Galveston Bay Oyster Reefs: Oyster Sentinel

Sammy Ray, Texas A&M University at
Galveston, Galveston, TX

Life cycle of *Perkinsus marinus* (Dermo)



Cultured Dermo, gill (x80)



Oyster Sentinel Gulf Wide Coverage



<http://www.oystersentinel.org>

Recent Dermo Hotspots

Area	Station	Date Collected	T	S	Juvenile Infection			Commercial Infection		
					Percent	Intensity	Incidence	Percent	Intensity	Incidence
Aransas Bay	Lap Reef	2007-05-14	28.2	11.2	80	2.37	1.9	100	2.13	2.13
Aransas Bay	NW Causeway Reef	2007-05-14	27.6	10.6	100	2.03	2.03	90	2.18	1.97
San Antonio Bay	First Chain Reef	2007-05-28	25.8	25	90	2.45	2.2	90	2.15	1.93
Matagorda Bay	Gallinipper	2008-07-29	30	27.5	25	1.33	0.33	75	2.83	2.12
Matagorda Bay	Indian Point	2007-10-30	21	13.5	80	1.71	1.37	100	2.53	2.53
Galveston Bay	Confederate Reef	2008-07-29	32	32	80	1.79	1.43	100	2.47	2.47
Galveston Bay	April Fool Reef	2008-07-22	31.2	19.9	25	0.67	0.17	83.3	2.5	2.08
Mississippi Sound	Pass Christian Dredging Reef	2008-08-28	27.8	18.2	80	1.25	1	100	2.23	2.23
Corpus Christi Bay	Mid Nueces Bay	2007-05-14	26.3	30.5	100	3.27	3.27	100	3	3
Corpus Christi Bay	North Indian Point	2007-05-14	26.6	29.5	90	3.11	2.8	90	3.33	3
Corpus Christi Bay	Southwest Indian Point	2007-02-05	12.2	30.4	20	2.33	0.47	100	2.66	2.66
Corpus Christi Bay	Port Aransas Harbor	2007-02-04	13.7	34	80	2.46	1.97	100	2	2
Corpus Christi Bay	East Flats	2007-05-12	27.6	33	40	2.5	1	100	2.1	2.1
Corpus Christi Bay	Island Mooring	2007-11-11	24.1	27	90	1.89	1.7	90	2.33	2.1
Charlotte Harbor	Cattle Dock	2007-12-12	29.2	35.8	80	2.75	2.2			
Charlotte Harbor	Bird Island	2008-12-10	20.8	31.4	93.3	2.43	2.27			
Charlotte Harbor	Kitchel Key	2008-11-12	23.4	33.5	86.7	2.62	2.27			
Charlotte Harbor	Tarpon Bay	2008-12-10	21.4	34.8	80	2.58	2.07			

Galveston Bay Coverage Locations



Fisher's Reef



Fisher's Reef Prevalence Data

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2008-07-08	29.6	12.2	0	0	0			
2008-06-09	28.8	10.6	0	0	0	0	0	0
2008-06-09	28.8	10.6	0	0	0			
2008-05-29	30	4.3	0	0	0			
2008-03-28	20.2	1.4	0	0	0			
2008-02-24	16.5	5.9	0	0	0			
2008-01-27	10.1	13.6	0	0	0			
2007-12-06	14.9	13.9	0	0	0			
2007-07-10	28.5	0.2	0	0	0	0	0	0
2007-06-21	28.6	2	0	0	0	0	0	0
2007-05-10	27.1	2.2	0	0	0	0	0	0
2007-04-19	19.7	1.1	0	0	0	0	0	0
2007-03-07	13	8.7	0	0	0	0	0	0
2007-01-25	9.1	4.5	0	0	0	0	0	0
2006-12-18	17.3	11.7	10	2	0.2	0	0	0
2006-11-21	14.2	8.8	0	0	0	0	0	0
2006-10-09	25.7	17.2	0	0	0	0	0	0
2006-09-20	26.4	18.4	0	0	0	0	0	0
2006-08-22	31.6	12.5	0	0	0	0	0	0

Fisher's Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2006-07-11	27.7	10.5	0	0	0	0	0	0
2006-06-09	29.5	17	0	0	0	0	0	0
2006-05-22	27.1	18.3	0	0	0	0	0	0
2006-04-15	22.6	7.3	0	0	0	0	0	0
2006-03-24	15	20.8	0	0	0	0	0	0
2005-06-23	29.8	16.5	0	0	0			
2004-03-23	20	9	0	0	0	0	0	0
2003-12-16	12	12.3	0	0	0	0	0	0
2003-11-18	11.2	21	0	0	0	0	0	0
2003-10-13	7.4	26.9	0	0	0	0	0	0
2003-09-23	10.5	25.7	0	0	0	0	0	0
2003-08-25	14	32.8	0	0	0	6.7	0.33	0.02
2003-07-10	13.2	29	0	0	0	0	0	0
2003-06-05	13.5	23.9	0	0	0	6.7	0.33	0.02
2003-04-24	5	22.5	0	0	0	0	0	0
2003-03-25	4.9	20.4	0	0	0	0	0	0
2003-02-13	10.1	13.2	6.7	0.33	0.02	0	0	0
2003-01-13	9	10.6	0	0	0	0	0	0
2002-12-18	15.3	0.5	0	0	0	0	0	0

Fisher's Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2002-11-18	16.1	1.4	0	0	0	0	0	0
2002-10-14	22.8	15	0	0	0	0	0	0
2002-09-10	26.5	10	6.7	1	0.07	26.7	2.08	0.56
2002-08-26	31.7	7.4	40	0.33	0.13	26.7	0.75	0.2
2001-06-04	28.2	7.2	0	0	0	0	0	0
2001-04-24	23.1	1.4	0	0	0	0	0	0
2001-03-06	15.8	3.6	6.7	0.33	0.02	0	0	0
2001-02-06	12.7	7	13.3	0.33	0.04	26.7	0.33	0.09
2000-12-11	14.1	13	66.7	1.07	0.71	93.3	0.76	0.71
2000-11-28	16.3	9	13.3	0.5	0.07	20	1.33	0.27
2000-10-17	24.1	25	6.7	1.67	0.11	6.7	1.33	0.09
2000-08-24	29.6	15	6.7	0.33	0.02	13.3	1.33	0.18
2000-07-26	29.3	5	6.7	0.33	0.02	13.3	0.33	0.04
2000-06-28	30.3	5	13.3	0.33	0.04	46.7	0.67	0.31
2000-05-25	28.5	9	86.7	1.62	1.4	80	2.11	1.69
2000-04-06	19.5	23	6.7	0.33	0.02	0	0	0
2000-03-02	21	23	0	0	0	0	0	0
2000-02-22	17.8	23	6.7	0.33	0.02	20	0.33	0.07
2000-01-10	15.1	26	33.3	0.33	0.11	13.3	0.33	0.04

Fisher's Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
1999-12-22	12.6	24	93.3	1.6	1.49	93.3	1.98	1.84
1999-11-24	20.2	25	13.3	0.33	0.04	6.7	0.33	0.02
1999-10-11	25.4	26	20	0.44	0.09	40	0.33	0.13
1999-09-27	25.8	23	33.3	0.33	0.11	13.3	0.33	0.04
1999-08-17	30.4	8	20	0.33	0.07	60	0.33	0.2
1999-07-29	31.3	5	26.7	0.33	0.09	53.3	0.33	0.18
1999-05-14	27.1	11	20	0.33	0.07	13.3	0.33	0.04
1999-04-13	24.2	5	46.7	0.33	0.15	13.3	0.33	0.04
1999-03-24	20.9	16	0	0	0	0	0	0
1999-02-24	15.7	3	0	0	0	0	0	0
1999-01-12	11.8	2	0	0	0	0	0	0
1998-12-17	13.3	5	0	0	0	0	0	0

Redfish Reef



Redfish Reef Prevalence Data

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2008-07-29	29.8	24.2	11.1	1.67	0.19	50	3	1.5
2008-06-11	29	11	5.9	3.33	0.2	33.3	4	1.33
2008-05-08	24.4	11.8	20	1.67	0.33	50	1.87	0.93
2008-03-20	18	9.9	0	0	0	0	0	0
2008-02-07	14.2	15.4	0	0	0	0	0	0
2008-01-11	13.7	22.8	0	0	0	57.1	1.42	0.81
2007-12-04	15.1	20.3	28.6	2.16	0.62	50	2.73	1.37
2007-11-06	22.2	18.6	20	1.16	0.23	50	1.8	0.9
2007-10-26	18.1	9.7	60	2.33	1.4	60	2.17	1.3
2007-09-25	28.7	14.8	10	2	0.2	10	0.67	0.07
2007-08-06	30.2	7	20	0.67	0.13	30	1.22	0.37
2007-07-24	28.7	6.1	20	1.34	0.27	60	2	1.2
2007-06-05	28.4	7.6	30	0.44	0.13	20	1.34	0.27
2007-05-09	26.4	9.8	60	1.45	0.87	100	1.77	1.77
2007-04-26	22	6.5	10	0.67	0.07	10	0.67	0.07
2007-03-12	18.7	16.7	0	0	0			
2007-01-11	13.5	14.5	0	0	0	40	1.67	0.67
2006-12-06	11.9	20.8	0	0	0	10	2	0.2
2006-11-07	20	8.8	30	1.11	0.33	10	2	0.2

Redfish Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2006-10-18	24.5	15	60	1.33	0.8	30	1.45	0.43
2006-09-06	28.8	23.3	11.8	1.66	0.2	33.3	3	1
2006-08-08	30.8	20	38.5	1.73	0.67	85.7	2.11	1.81
2006-07-12	30.1	17.8	20	1.84	0.37	40	2.33	0.93
2006-06-14	30	26.3	50	2.4	1.2	80	1.88	1.5
2006-05-31	25.5	23.3	10	0.67	0.07	30	1.22	0.37
2006-05-22	27.1	18.3	0	0	0	0	0	0
2006-02-27	14.1	25.8	10	2	0.2			
2005-12-14	14	25	70	1.57	1.1	80	0.88	0.7
2005-11-04	19.6	25.5	90	2.11	1.9	100	1.54	1.54
2005-07-13	30.7	24.1	20	2.5	0.5	30	1.45	0.43
2005-06-13	29.6	21.5				50	1.34	0.67
2005-04-20	22.5	16.4	6.2	3.33	0.21	50	1.67	0.84
2005-03-22	18.3	12.6	0	0	0	20	0.67	0.13
2005-02-14	15	8	33.3	0.47	0.16	20	0.56	0.11
2004-12-27	14	12	26.7	0.75	0.2	46.7	0.95	0.45
2004-11-04	20.1	18.4	6.7	2.33	0.16	80	1.31	1.05
2004-09-27	26.1	21	20	1.83	0.37	100	1	1
2004-06-21	30.6	10.6	60	1.29	0.78	73.3	1.55	1.13

Redfish Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2004-05-20	26.4	5.4	33.3	1.87	0.62	73.3	1.03	0.76
2004-04-22	24	17	66.7	2.1	1.4	80	1.75	1.4
2004-03-17	19.5	7	0	0	0	26.7	0.33	0.09
2003-12-08	13.6	14	80	1.36	1.09	86.7	1.23	1.07
2003-11-21	19.3	14.5	53.3	1.42	0.76	66.7	1.57	1.04
2003-10-27	19.7	9.7	66.7	1.6	1.07	86.7	1.49	1.29
2003-09-04	28.7	21.4	20	0.33	0.07	6.7	0.33	0.02
2003-08-11	30.1	25	46.7	2.52	1.18	86.7	1.56	1.36
2003-07-29	29.5	19.2	53.3	1.67	0.89	86.7	1.9	1.64
2003-06-10	28.7	21.5	6.7	0.33	0.02	20	1	0.2
2003-05-08	26.7	16	26.7	2.17	0.58	33.3	1.53	0.51
2003-04-14	20	10	0	0	0	0	0	0
2003-03-13	17.9	7.5	0	0	0	6.7	0.33	0.02
2003-02-10	9.9	16.4	6.7	0.67	0.04	0	0	0
2002-12-10	11	11.8	26.7	1.17	0.31	60	0.85	0.51
2002-11-12	18.5	1	40	0.94	0.38	66.7	1	0.67
2002-10-24	21.4	15.2	33.3	0.87	0.29	40	1.28	0.51
2002-09-17	27.7	15.4	26.7	0.75	0.2	33.3	0.87	0.29
2002-08-09	29.7	20	20	1.89	0.38	46.7	1.28	0.6

Redfish Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2002-07-29	30	18.9	20	1.44	0.29	33.3	1.73	0.58
2002-06-18	30	10.8	20	2.22	0.44	80	0.83	0.67
2002-05-21	21.4	10.4	6.7	2	0.13	33.3	1.6	0.53
2002-04-09	19.7	13.1	40	1.06	0.42	60	1.19	0.71
2002-03-20	20.5	19.3	13.3	0.83	0.11	33.3	0.6	0.2
2002-02-21	15.9	15.2	0	0	0	33.3	0.47	0.16
2002-01-28	14.8	15.2	46.7	0.67	0.31	46.7	1	0.47
2002-01-09	10.8	10.4	53.3	1.08	0.58	73.3	1.15	0.84
2001-12-18	16.6	8.3	26.7	1.66	0.44	40	1.78	0.71
2001-11-08	22.6	10.1	60	0.96	0.58	66.7	1.5	1
2001-10-22	23.8	8.7	13.3	0.33	0.04	93.3	1.33	1.24
2001-09-10	28.1	13.8	53.3	1.96	1.04	60	2.11	1.27
2001-08-02	30.3	17.9	60	3.04	1.82	93.3	2.5	2.33
2001-06-20	29.3	5.3	40	0.67	0.27	46.7	0.48	0.22
2001-05-08	24.8	7	6.7	3	0.2	53.3	1.38	0.73
2001-04-11	23.8	2.7	33.3	0.67	0.22	46.7	0.62	0.29
2001-03-05	16.8	14	33.3	0.53	0.18	73.3	0.79	0.58
2001-02-06	12.9	5.6	13.3	0.33	0.04			
2001-01-02	9.3	11.8	93.3	0.91	0.85	80	0.94	0.76

Redfish Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2000-12-11	14.3	18	93.3	1.45	1.36	93.3	1.31	1.22
2000-11-29	16.1	17	60	2.3	1.38	100	1.96	1.96
2000-10-17	24	27	93.3	2.38	2.22	93.3	2.62	2.44
2000-08-23	30	30	66.7	2.87	1.91	100	2.89	2.89
2000-07-26	30.1	21	100	2.12	2.12	100	2.11	2.11
2000-06-26	30.4	27	80	1.61	1.29	100	2.11	2.11
2000-05-25	28.5	9	93.3	2.12	1.98	100	2.31	2.31
2000-04-06	20.7	25	93.3	2.62	2.45	100	2.76	2.76
2000-03-02	21.9	26	73.3	1.91	1.4	100	2.02	2.02
2000-02-07	12.5	24	93.3	1.95	1.82	93.3	2.02	1.89
2000-01-18	18.3	29	93.3	2.17	2.02	100	2.27	2.27
1999-12-08	16	30	93.3	1.79	1.67	100	2.07	2.07
1999-11-22	22.3	27	93.3	2.29	2.13	93.3	2.57	2.4
1999-10-06	24.6	27	86.7	2.31	2	100	3.09	3.09
1999-09-27	27	26	100	2.29	2.29	80	2.94	2.35
1999-08-18	32.5	17	86.7	1.69	1.47	93.3	2.24	2.09
1999-07-29	30.9	14	100	1.96	1.96	100	1.89	1.89
1999-06-28	30.1	14	100	1.38	1.38	93.3	1.71	1.6
1999-05-06	25.3	24	100	2.13	2.13	100	2.2	2.2

Redfish Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
1999-04-07	22.6	16	46.7	1.62	0.76	86.7	1.59	1.38
1999-03-24	19.5	12	80	2.08	1.67	80	2.31	1.84
1999-02-10	20.1	13	80	1.56	1.24	86.7	1.44	1.24
1999-01-07	12.1	14	80	1.47	1.18	86.7	1	0.87
1998-12-17	13.6	7	80	0.97	0.78	66.7	1.23	0.82

Hannah's Reef



Hannah's Reef Prevalence Data

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2008-07-08	30	15.3	40	1.33	0.53	71.4	2.67	1.9
2008-06-12	28	21.1	0	0	0	20	1.84	0.37
2008-05-14	25	9.5	9.1	1.67	0.15	66.7	1.5	1
2008-03-12	14.7	16.2	0	0	0	0	0	0
2008-02-28	13.9	12.9	25	0.67	0.17	36.4	2	0.73
2008-01-30	10.9	14.7	0	0	0	0	0	0
2007-11-27	11.4	12	16.7	2.33	0.39	35.7	1.54	0.55
2007-10-02	27.6	10	10	0.67	0.07	60	2.84	1.7
2007-09-07	29.1	10.7	0	0	0	0	0	0
2007-08-19	28.9	10	25	2.5	0.62	66.7	1.08	0.72
2007-06-18	27.5	14.8	20	0.33	0.07	40	1.34	0.53
2007-05-30	26.6	15.7	40	1.75	0.7	80	2.38	1.9
2007-03-28	23.5	11.3	0	0	0	12.5	0.67	0.08
2007-01-25	9.9	7.2	60	1.78	1.07	50	1	0.5
2006-12-19	17.9	19	10	1	0.1	0	0	0
2006-11-17	16.2	17.4	20	1	0.2	40	1.5	0.6
2006-10-10	25.1	21.9	0	0	0	0	0	0
2006-09-27	25.1	22	0	0	0	0	0	0
2006-08-17	32.4	13	0	0	0	14.3	0.67	0.1

Hannah's Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2006-07-27	27	19.1	0	0	0	0	0	0
2006-06-14	29.2	24.4	0	0	0	30	1.44	0.43
2006-05-24	27.2	24.1	0	0	0	20	1	0.2
2006-05-17	23	19	0	0	0	0	0	0
2006-04-07	24.4	24.1	0	0	0	60	1.83	1.1
2006-03-07	20.2	24.3	0	0	0	0	0	0
2006-01-11	15.5	25.2	0	0	0	0	0	0
2005-12-20	9.2	19.6	30	1.78	0.53	70	2.76	1.93
2005-11-29	17	21	60	1.39	0.83	80	1.25	1
2005-03-28	16.9	8.6	6.7	2.3	0.15	40	0.67	0.27
2005-02-10	17	12	6.7	1	0.07	40	0.44	0.18
2004-12-01	13.7	18	0	0	0	45.5	1.4	0.64
2004-10-20	27	27.1	0	0	0	6.7	0.33	0.02
2004-08-25	31	16	20	0.89	0.18	26.7	1.75	0.47
2004-07-06	30.8	6.3	13.3	0.83	0.11	46.7	1.05	0.49
2004-06-11	28	20.5	6.7	0.33	0.02	20	1.45	0.29
2004-03-31	22	8	40	1	0.4	60	1.45	0.87
2004-02-17	11.5	8.4	0	0	0	0	0	0
2004-02-05	16	15	6.7	0.67	0.04	0	0	0

Hannah's Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2003-12-16	12.2	15.3	13.3	0.33	0.04	13.3	0.66	0.09
2003-11-12	21.9	14.1	6.7	1	0.07	0	0	0
2003-10-28	18.4	12.8	60	1.7	1.02	93.3	1.21	1.13
2003-09-24	26	11.4	13.3	0.33	0.04	26.7	1.72	0.46
2003-08-21	30	21.7	26.7	1.34	0.36	6.7	1.67	0.11
2003-07-29	29.4	16.8	0	0	0	20	1.22	0.24
2003-06-10	29	18.7	26.7	1.92	0.51	73.3	1.51	1.11
2003-05-29	26.3	16.3	0	0	0	6.7	0.67	0.04
2003-04-14	21.5	10	6.7	0.67	0.04	13.3	0.5	0.07
2003-03-13	18.8	8.7	0	0	0	6.7	0.33	0.02
2003-02-10	15.4	10.5	0	0	0	13.3	0.33	0.04
2003-01-31	11.6	12.5	0	0	0	20	0.78	0.16
2002-12-19	14.8	10.3	26.7	1.42	0.38	46.7	0.57	0.27
2002-11-12	19.9	4	0	0	0	33.3	0.67	0.22
2002-10-24	21.2	11.2	33.3	1.13	0.38	33.3	1	0.33
2002-09-17	27.7	13.3	6.7	0.67	0.04	13.3	1.84	0.24
2002-08-13	29.5	21.1	13.3	1.33	0.18	53.3	1.67	0.89
2002-07-29	30.1	13.3	13.3	0.33	0.04	46.7	1.05	0.49
2002-06-18	29	9.7	6.7	0.33	0.02	33.3	1	0.33

Hannah's Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2002-05-21	22.1	10.4	0	0	0	60	1.63	0.98
2002-02-20	15.7	15.6	26.7	0.83	0.22	46.7	0.62	0.29
2002-01-28	15.1	14.2	20	0.33	0.07	73.3	0.45	0.33
2001-10-22	23.8	10.9	40	1.28	0.51	66.7	1.07	0.71
2001-08-29	27.4	21.2	73.3	1.6	1.18	53.3	1.96	1.04
2001-06-20	29.2	4.3	46.7	0.91	0.42	86.7	0.82	0.71
2001-04-23	24.8	9.4	46.7	0.95	0.44	73.3	1.18	0.87
2001-03-19	14.4	9.8	53.3	1.12	0.6	46.7	1.29	0.6
2001-02-20	13.8	16	53.3	0.66	0.35	66.7	0.83	0.56
2000-12-19	9.4	16.5	53.3	0.92	0.49	73.3	0.58	0.42
2000-11-09	17.7	29	86.7	2.49	2.16	100	2.38	2.38
2000-10-17	23	26	80	2.61	2.09	93.3	2.31	2.16
2000-08-24	30.2	28	86.7	2.64	2.29	100	2.27	2.27
2000-07-26	30.4	20	86.7	2	1.73	86.7	1.67	1.45
2000-06-22	29.4	23	86.7	1.71	1.48	100	2.27	2.27
2000-05-24	26	22	93.3	2.59	2.42	86.7	2.28	1.98
2000-04-04	19.8	30	60	3	1.8	86.7	2.41	2.09
2000-03-28	23.8	25	66.7	1.83	1.22	86.7	2.38	2.07
2000-02-22	17.9	25	53.3	2.38	1.27	86.7	2.13	1.84

Hannah's Reef Prevalence Data

Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2000-01-18	17.9	29	80	1.92	1.53	86.7	2.15	1.87
1999-12-22	11.1	23	86.7	2.1	1.82	93.3	1.95	1.82
1999-11-22	22.5	25	93.3	2.14	2	93.3	2.6	2.42
1999-10-06	23.5	27	100	2.04	2.04	100	2.58	2.58
1999-09-27	26.9	26	53.3	1.62	0.87	80	2.17	1.73
1999-08-18	30.8	23	73.3	1.82	1.33	93.3	1.81	1.69
1999-07-29	29.9	10	86.7	0.95	0.82	93.3	0.95	0.89
1999-06-28	30.1	14	86.7	1.82	1.58	93.3	1.5	1.4
1999-05-06	25.3	23	86.7	2.28	1.98	100	2.16	2.16
1999-04-07	23.3	18	93.3	2.26	2.11	93.3	2.48	2.31
1999-03-24	19.8	17	93.3	1.52	1.42	93.3	2.4	2.24
1999-02-10	21.3	12	93.3	1.24	1.16	93.3	1.33	1.24
1999-01-12	12.7	11	80	1.69	1.36	86.7	0.74	0.64
1998-12-17	13.4	8	60	1.04	0.62	86.7	0.9	0.78

Confederate's Reef



Confederate Reef Prevalence Data

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2008-07-29	32	32	80	1.79	1.43	100	2.47	2.47
2008-06-28	30	26	70	2.14	1.5	80	2.37	1.9
2008-05-15	26.8	21.4	90	2.37	2.13	90	1.59	1.44
2008-04-21	29	24	80	2.21	1.77	100	1.4	1.4
2008-03-19	23	27	90	1.93	1.74	100	1.97	1.97
2008-02-20	21	24	80	1.46	1.17	90	1.41	1.27
2008-01-27	13	24	60	1.23	0.74	80	1	0.8
2007-12-18	16	26	90	1.59	1.44	90	1.52	1.37
2007-11-26	14	25	80	1.42	1.13	40	1.5	0.6
2007-10-23	19	23	70	2.67	1.87	100	1.87	1.87
2007-09-30	29	20	60	2.61	1.57	90	1.67	1.5
2007-08-22	34	22	100	1.57	1.57	70	2.24	1.57
2007-07-24	33	21	70	2.33	1.63	90	1.48	1.33
2007-07-10	34	18				80	2.21	1.77
2007-06-16	31	22	80	2	1.6	100	2.37	2.37
2007-05-16	30	20	50	2.67	1.33	60	1.94	1.17
2007-04-21	24	18	40	3.25	1.3	90	1.89	1.7
2007-03-28	23	20	70	1.95	1.37	100	2.1	2.1
2007-02-20	18	18	84.6	1.73	1.46	50	1.73	0.87

Confederate Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2007-01-28	10	14	80	1.88	1.5	80	1.46	1.17
2006-12-18	22	26	50	1.6	0.8	80	1.38	1.1
2006-11-21	19	24	50	1.74	0.87	70	0.57	0.4
2006-10-27	22	19	60	1.39	0.83	50	1.07	0.54
2006-09-06	27	34	100	3.07	3.07	100	2.03	2.03
2006-08-16	36	30	80	2.29	1.83	100	2.17	2.17
2006-07-20	31	29	100	2.53	2.53	90	2.11	1.9
2006-06-24	31.5	28	80	2.5	2	100	2.33	2.33
2006-05-26	30	32	80	1.21	0.97	100	1.97	1.97
2006-04-26	24	31	90	1.63	1.47	90	1.48	1.33
2006-04-13	24	32	0	0	0	60	2.17	1.3
2006-03-25	17	27	70	0.91	0.63	90	1.21	1.09
2006-02-25	16	29	60	2.11	1.27	70	1.14	0.8
2006-01-14	10	31	80	1.88	1.5	80	1.88	1.5
2005-12-19	10	25	80	1.96	1.57	100	1.9	1.9
2005-11-20	18	26	100	1.77	1.77	100	1.97	1.97
2005-10-25	15.5	30	100	2.67	2.67	100	2.07	2.07
2005-10-06	32	30	90	3.18	2.87	100	2.3	2.3
2005-08-25	34	35	100	2.43	2.43	90	2.41	2.17

Confederate Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2005-07-22	32	30	90	2.7	2.43	90	2.52	2.27
2005-06-28	30	30	90	2.11	1.9	100	2.3	2.3
2005-05-24	30	27	90	3.26	2.93	100	2.77	2.77
2005-05-16	26.2	23.9	80	3.13	2.5	100	1.64	1.64
2005-04-28	21	22	90	2.52	2.27	90	1.74	1.57
2005-04-22	21.9	20	80	1.42	1.13	90	2.11	1.9
2005-03-29	22	19	100	2	2	100	2	2
2005-03-21	22	18	80	1.63	1.3	90	2	1.8
2005-03-10	15	11	80	1.29	1.03	100	1.34	1.34
2005-03-06	13	10	60	1.33	0.8	80	1.58	1.27
2005-02-08	17	18	86.7	1.21	1.05	60	1.44	0.87
2005-01-26	22	19	86.7	1.64	1.42	93.3	1.36	1.27
2004-12-19	13	20	86.7	2.23	1.93	86.7	1.74	1.51
2004-11-26	22	23	93.3	2.33	2.18	100	1.51	1.51
2004-10-28	28	26	100	2.6	2.6	100	2.11	2.11
2004-09-20	30	24	93.3	3.29	3.07	100	2.71	2.71
2004-08-25	32	24	93.3	2.81	2.62	93.3	2.81	2.62
2004-07-12	34	18	100	1.85	1.85	86.7	1.92	1.67
2004-06-15	31	26	100	2.65	2.65	100	2.24	2.24

Confederate Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2004-05-31	34	24	100	2.98	2.98	100	2.4	2.4
2004-04-14	27	22	93.3	2.64	2.47	100	2.58	2.58
2004-02-15	14	17	100	2.04	2.04	86.7	1.15	1
2004-01-19	15	20	93.3	1.5	1.4	73.3	1.33	0.98
2003-12-14	15	15	93.3	1.88	1.76	93.3	1.48	1.38
2003-11-19	22	19	93.3	2.24	2.09	100	2.09	2.09
2003-10-28	22	22	100	2.69	2.69	100	2.02	2.02
2003-09-27	25	29	100	3.05	3.05	93.3	2.52	2.36
2003-08-24	29	33	100	2.29	2.29	100	2.05	2.05
2003-07-26	23	31	100	2.67	2.67	100	2.13	2.13
2003-06-28	26	33	100	2.31	2.31	93.3	1.95	1.82
2003-05-23	28	25	86.7	2.54	2.2	93.3	2.29	2.13
2003-05-06	23	26	86.7	1.95	1.69	93.3	1.6	1.49
2003-03-23	18	15	73.3	1.42	1.04	86.7	1.46	1.27
2003-02-23	19	15	86.7	1.26	1.09	100	1.07	1.07
2003-01-29	20	14	100	1.76	1.76	93.3	1.33	1.25
2002-12-17	16	17.8	80	1.86	1.49	80	1.5	1.2
2002-11-24	16	17	93.3	2.38	2.22	86.7	1.92	1.67
2002-11-06	8	22	100	1.42	1.42	93.3	1.55	1.45

Confederate Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2002-09-28	20	29	100	2.78	2.78	93.3	1.95	1.82
2002-09-24	16	25.3	26.7	0.5	0.13	40	2.22	0.89
2002-08-20	18	30.1	100	2.51	2.51	100	2.24	2.24
2002-07-17	32	16	100	2.11	2.11	100	1.8	1.8
2002-06-24	28	18	93.3	1.52	1.42	80	1.89	1.51
2002-05-19	16	25	100	2.87	2.87	100	2.6	2.6
2002-04-23	25	23	100	1.84	1.84	100	2.4	2.4
2002-03-19	25	26	100	2.56	2.56	100	2.42	2.42
2002-02-24	16	24	100	1.69	1.69	93.3	1.52	1.42
2002-01-15	16	22	86.7	2.74	2.38	93.3	2.21	2.06
2001-12-18	19	19	86.7	2.72	2.36	93.3	2.02	1.89
2001-11-29	8	12	93.3	2.62	2.44	93.3	2.48	2.31
2001-10-25	23	20	86.7	2.21	1.91	86.7	1.87	1.62
2001-10-05	26	20	93.3	2.21	2.07	86.7	2.08	1.8
2001-08-25	30	34	93.3	3.29	3.07	100	2.82	2.82
2001-07-14	30	25	93.3	2.35	2.19	100	2.16	2.16
2001-06-23	30	22	100	1.53	1.53	100	1.62	1.62
2001-05-19	29	19.3	60	2.15	1.29	93.3	1.88	1.76
2001-04-27	24	17	86.7	1.95	1.69	93.3	1.84	1.71

Confederate Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
2001-03-16	16	17	73.3	2.21	1.62	93.3	1.52	1.42
2001-02-20	16	16	93.3	1.43	1.33	86.7	1.31	1.13
2001-01-15	10	24	80	1.22	0.98	93.3	1.1	1.02
2000-12-19	11	26	60	1.56	0.93	86.7	1.44	1.25
2000-11-25	20	16	93.3	1.98	1.85	100	2.25	2.25
2000-10-31	28	38	93.3	2.28	2.13	100	1.96	1.96
2000-09-17	27.5	34	100	2.51	2.51	100	2.98	2.98
2000-08-29	32	38	93.3	2.57	2.4	100	3.05	3.05
2000-07-25	31.3	37	40	1.05	0.42	80	2.08	1.67
2000-05-31	31.5	27	93.3	2.21	2.07	100	2.51	2.51
2000-03-03	23.1	31	86.7	1.74	1.51	93.3	2.43	2.27
2000-02-28	19.6	33	93.3	2.72	2.53	100	2.8	2.8
2000-01-31	19.1	30	53.3	1.54	0.82	100	3.04	3.04
1999-12-29	12.8	30	100	3.4	3.4	100	2.4	2.4
1999-11-22	24	30	86.7	2.67	2.31	93.3	2.57	2.4
1999-10-11	28.3	30	93.3	2.6	2.42	100	2.67	2.67
1999-09-20	28.8	35	93.3	2.59	2.42	100	2.51	2.51
1999-08-03	32.6	30	100	2.49	2.49	93.3	2.1	1.96
1999-07-29	31.1	28	86.7	2	1.73	100	2.27	2.27

Confederate Reef Prevalence Data Continued

Date Collected	T	S	Juvenile Infection			Commercial Infection		
			Percent	Intensity	Incidence	Percent	Intensity	Incidence
1999-06-28	30.4	29	86.7	1.46	1.27	100	2	2
1999-05-14	26.4	27	40	0.66	0.27	86.7	2.13	1.85
1999-04-21	23.5	30	60	1.22	0.73	93.3	2.14	2
1999-03-26	19.9	29	60	2.7	1.62	93.3	1.76	1.65
1999-02-25	17.3	25	66.7	2.33	1.56	100	1.56	1.56
1999-01-20	19.3	21	53.3	0.92	0.49	86.7	0.95	0.82
1998-12-17	16.5	13	60	1.67	1	93.3	1.53	1.42

Biblical confirmation of the value of fresh water inflow to maintain healthy bays

The River From the Temple

Ezekiel 47, Verses 8-10

- He said to me, "This *water* flows towards the eastern region and goes down into the Arabah, where it enters the *Sea*. When it empties into the *Sea*, the water there becomes fresh. Swarms of living creatures will live wherever the *river* flows. There will be large numbers of fish, because this *water* flows there and makes the salt water fresh; so where the *river* flows everything will live. Fishermen will stand along the shore; from En Gedi to En Eglaim there will be places for spreading nets. The fish will be of many kinds--like the fish of the Great Sea.



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Oyster Sentinel Gulf Wide Coverage



<http://www.oystersentinel.org>