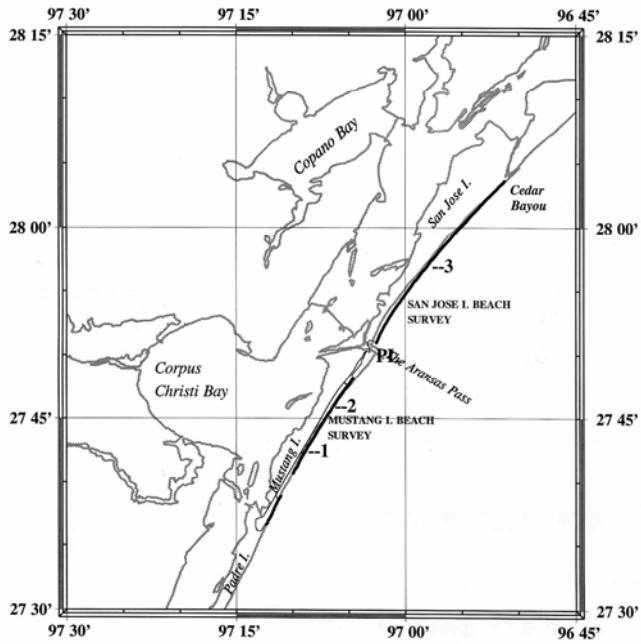
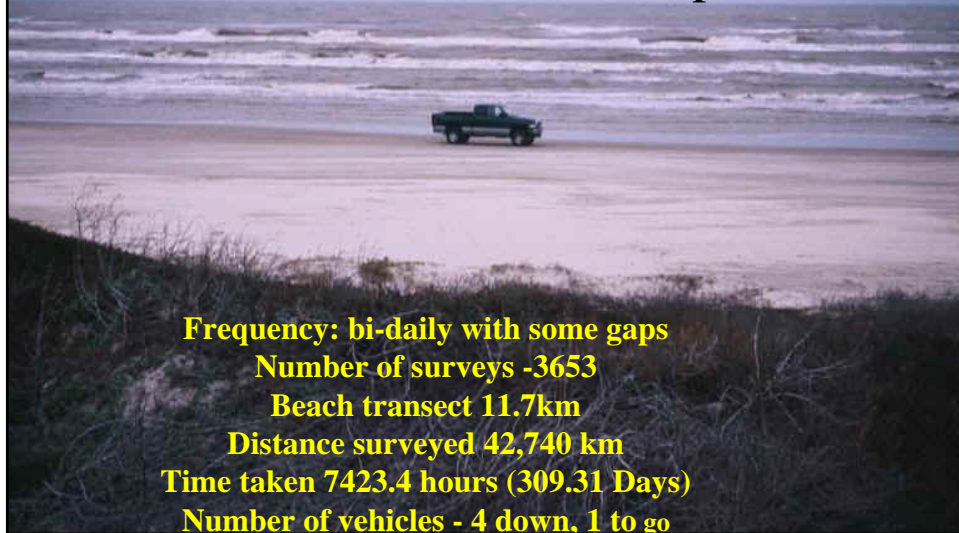


# Site Map



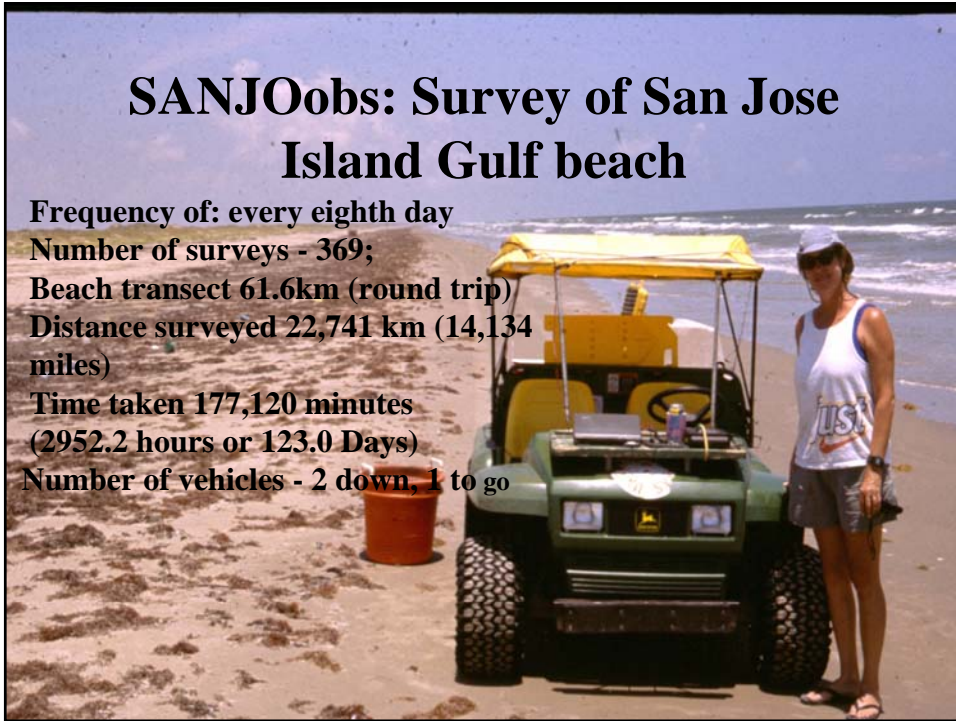
## BEACHobs: survey of Mustang Island Gulf Beach: 1978 - present



**Frequency: bi-daily with some gaps**  
**Number of surveys -3653**  
**Beach transect 11.7km**  
**Distance surveyed 42,740 km**  
**Time taken 7423.4 hours (309.31 Days)**  
**Number of vehicles - 4 down, 1 to go**

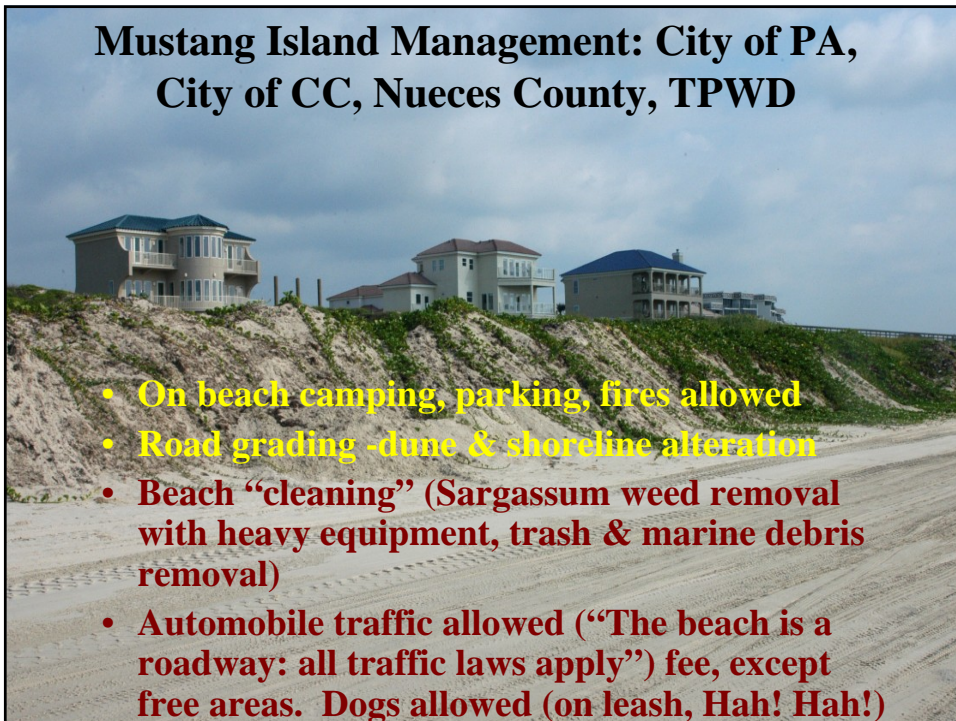
## **SANJOobs: Survey of San Jose Island Gulf beach**

**Frequency of: every eighth day**  
**Number of surveys - 369;**  
**Beach transect 61.6km (round trip)**  
**Distance surveyed 22,741 km (14,134  
miles)**  
**Time taken 177,120 minutes**  
**(2952.2 hours or 123.0 Days)**  
**Number of vehicles - 2 down, 1 to go**



## **Mustang Island Management: City of PA, City of CC, Nueces County, TPWD**

- **On beach camping, parking, fires allowed**
- **Road grading -dune & shoreline alteration**
- **Beach “cleaning” (Sargassum weed removal with heavy equipment, trash & marine debris removal)**
- **Automobile traffic allowed (“The beach is a roadway: all traffic laws apply”) fee, except free areas. Dogs allowed (on leash, Hah! Hah!)**



## San Jose Gulf Beach Management

Except for <1 mile “Government Land”, privately owned

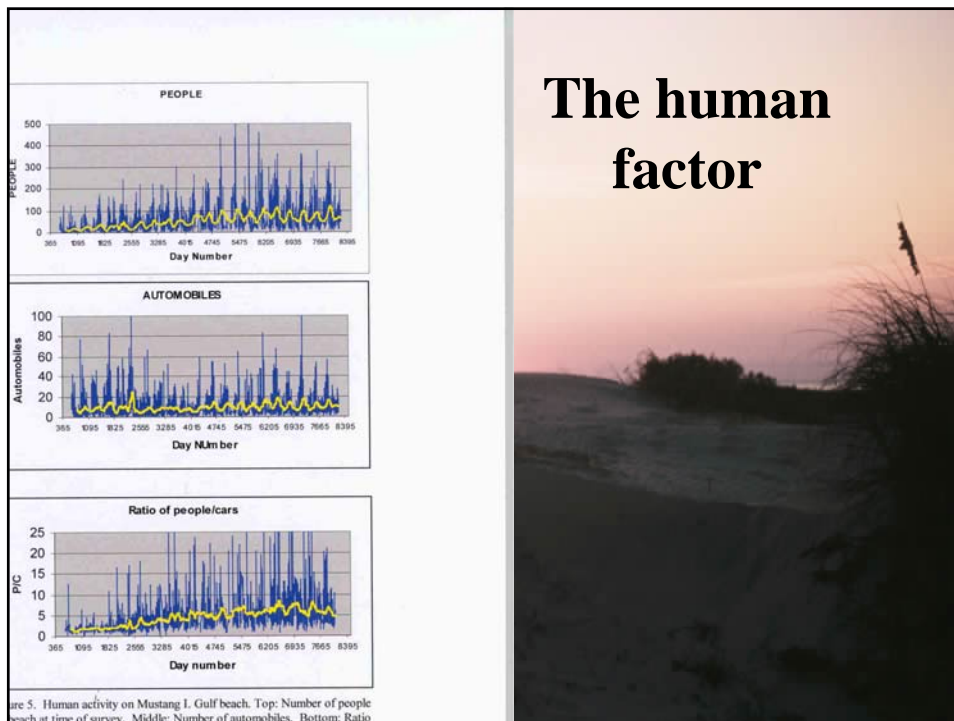
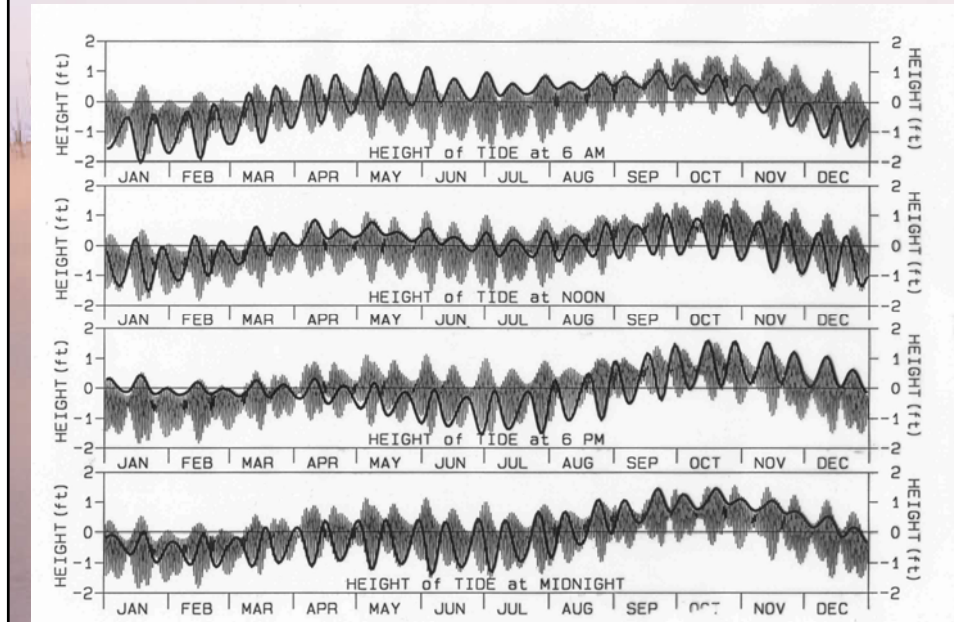
- Occasional beach traffic (ranch vehicles, piping plover surveyors)
- A handful of beachgoers, south end (bicycles, on foot)
- Cattle
- Accumulation of marine debris, wrecks, buoys –twice yearly volunteer cleanup, Govt. Land



Figure 6. High altitude imagery of Mustang Island Gulf Beach survey site (between the two access roads). Yellow triangles mark location of the measurement locations done at one-mile intervals, starting at Access Road #1. The special site at Gulf Shores condominium is also indicated. At the time the image was taken, only three adoniums were built on the survey beach: El Cortez, between Miles 1 and 2, Gulf Shores, and Lost Co. seen Miles 5 and 6. Prominent dune washout zones are near Access Road #2, and between Miles 2 and 3.

## Mustang I. Aerial View: 1980

## TIDES and The TIME of DAY



## The human factor



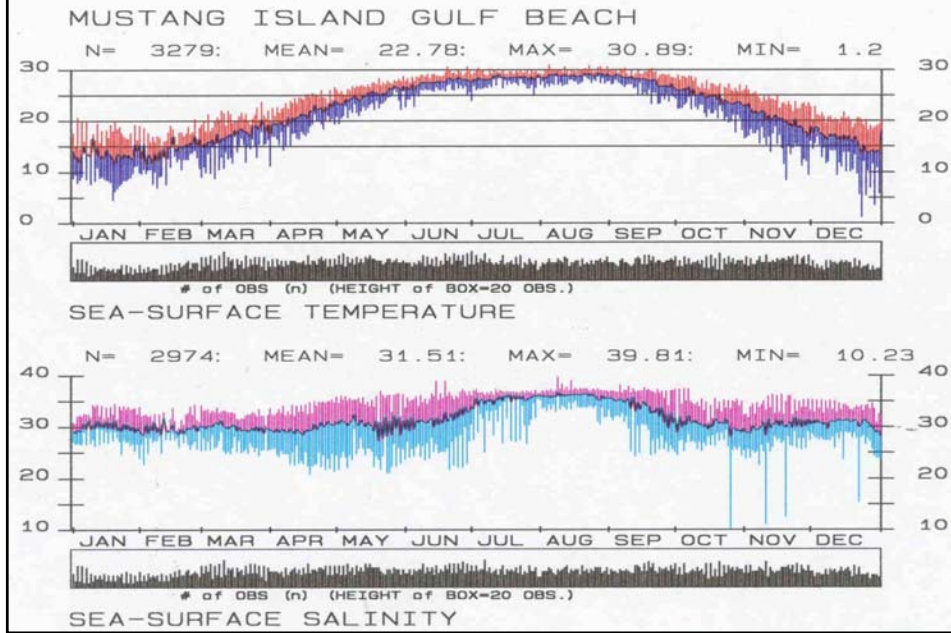
## Spring Break 86



## San Jose Residents



## Mean Annual SST and SSS in surf at Gulf Shores



# Weather and Sea

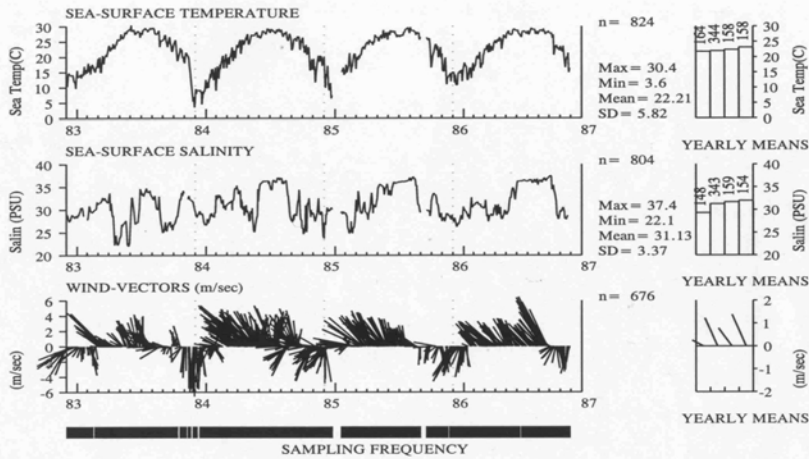
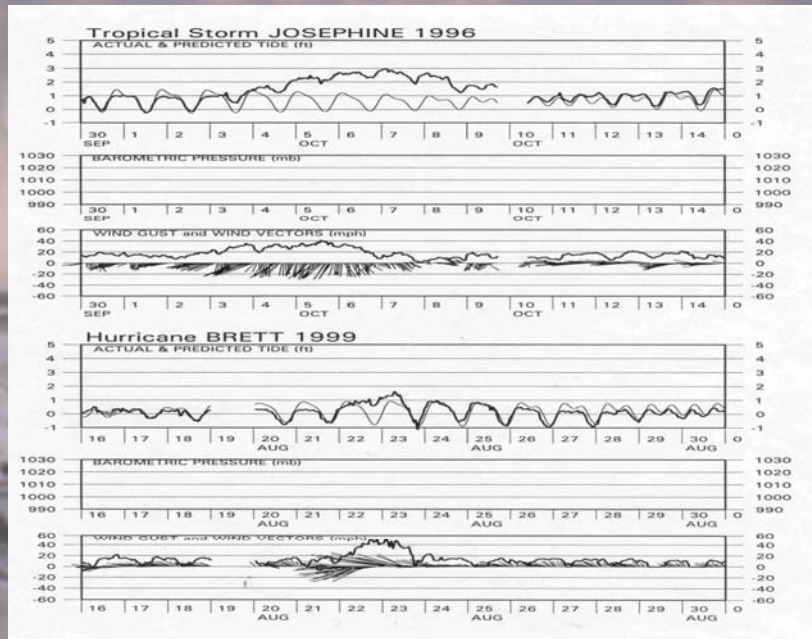


Figure 59. Wind and sea conditions at Gulf Shores; 1983-1987. Measurements taken on each BEACHobs survey after sunrise. Statistical data and yearly means shown to the right of each panel. Wind vectors are in meters per second. Salinity is given in PSU (Practical Salinity Units).

# Some Storms



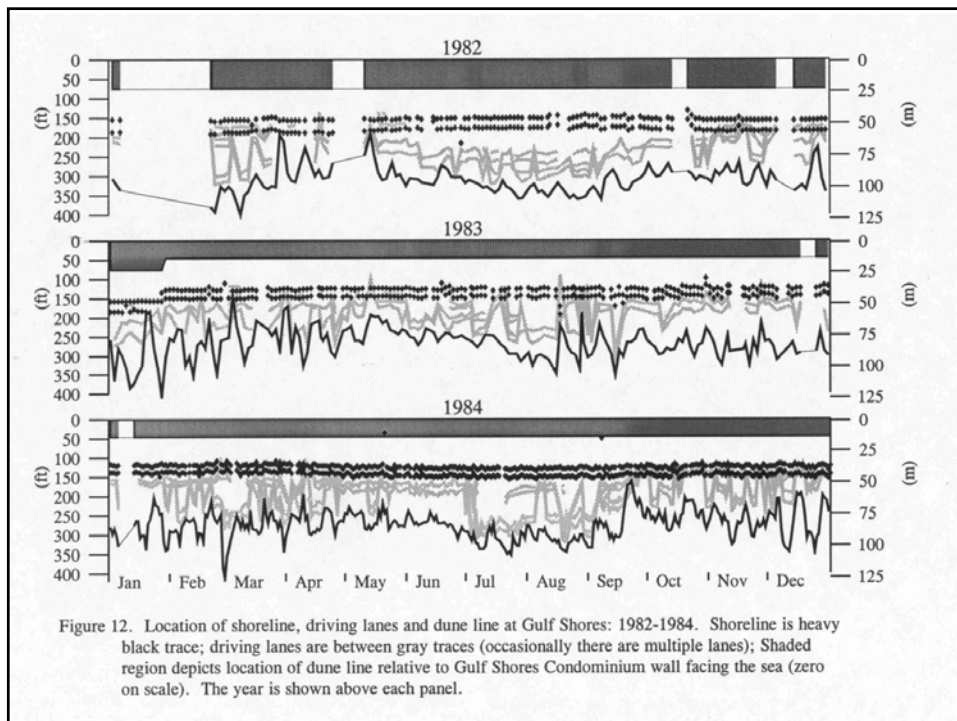


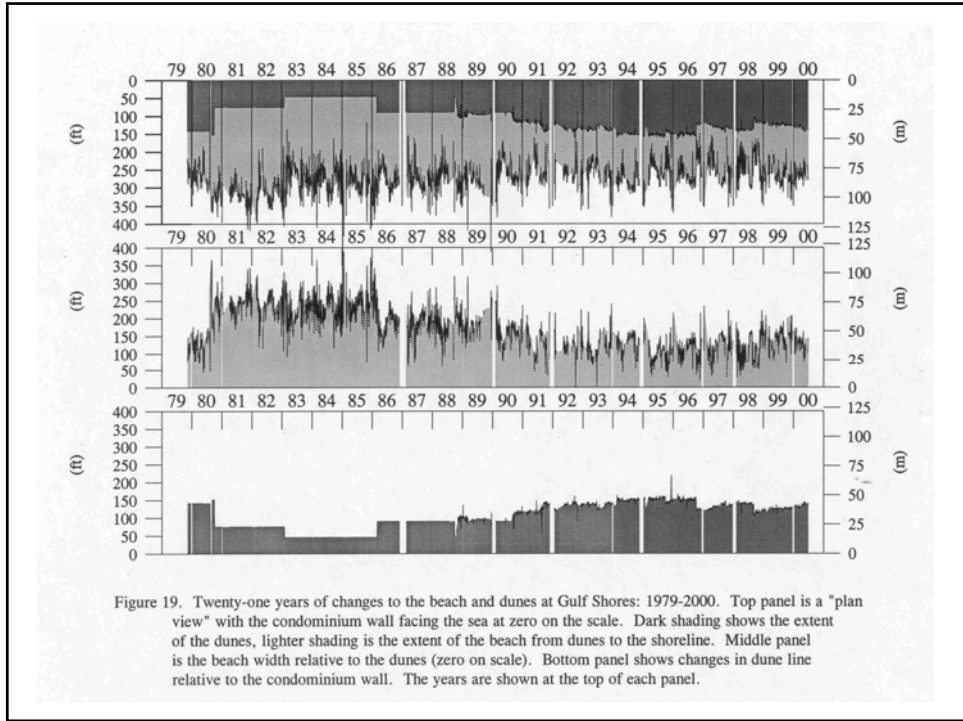
## Wide Beach



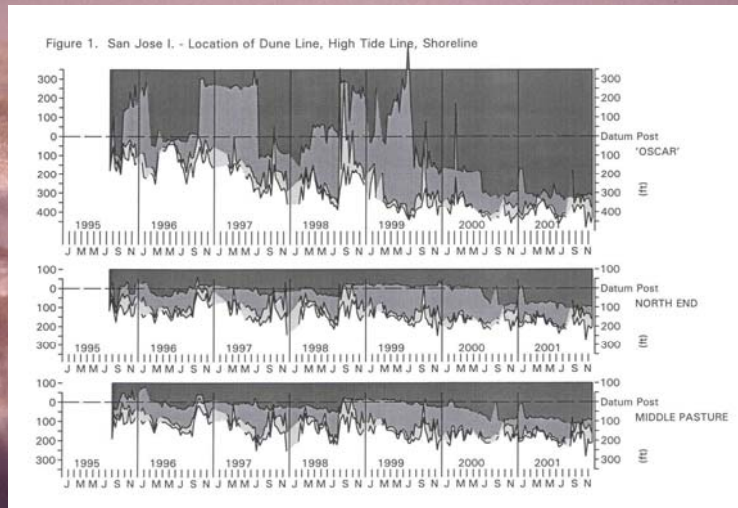
## Not so Wide Beach



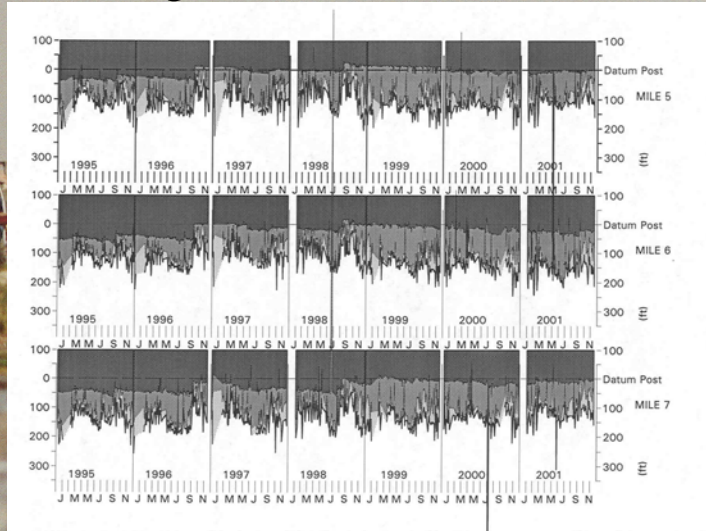




## San Jose Island :north-to south (1)



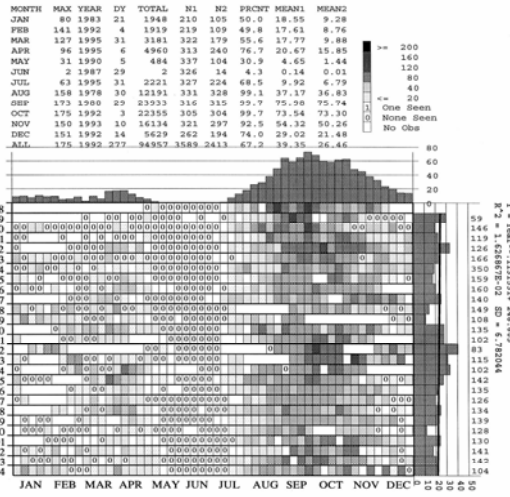
## Mustang Island: north-to-south (3)



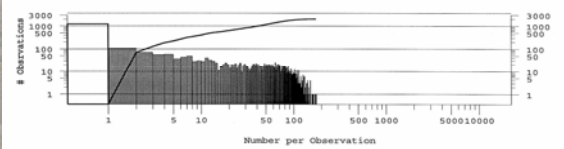
### TOP 20 RANKED BY TOTAL NUMBERS

RANK	NAME	TOTAL	MEAN	FREQ	MAX/DAY
1	LAUGHING GULL	1,129,203.00	326.6	99.2	7,381
2	SANDERLING	822,523.00	249.1	95.0	3,028
3	WILLET	243,314.00	101.0	97.9	562
4	PEOPLE	177,001.00	100.1	96.8	640
5	RING-BILLED GULL	162,575.00	61.2	77.0	1,487
6	LEAST TERN	157,946.00	87.8	51.7	2,632
7	DOUBLE-CRESTED CORMORANT	146,388.00	99.2	41.3	12,310
8	RED KNOT	139,612.00	73.0	54.4	2,369
9	RUDY TURNSTONE	114,459.00	39.3	82.9	512
10	ROYAL TERN	106,747.00	32.2	94.3	848
11	PIPING PLOVER	96,116.00	40.9	67.3	175
12	BLACK-BELLIED PLOVER	79,343.00	24.9	90.9	113
13	FORSTER'S TERN	57,904.00	25.5	64.8	1,166
14	BEVERAGE CONTAINER	52,171.00	30.1	49.7	913
15	BLACK TERN	41,742.00	79.5	15.4	5,142
16	SANDWICH TERN	41,429.00	22.0	53.6	690
17	WESTERN SANDPIPER	40,405.00	25.5	46.1	611
18	BROWN PELICAN	39,090.00	17.0	67.4	503
19	CATTLE EGRET	34,288.00	46.6	21.5	1,851
20	CARS	31,523.00	9.9	93.9	149
	SHOREBIRD SPECIES	1,564,658.00	448.2	99.9	3,193
	OTHER	2,082,479.00	596.2	100.0	14,620
	<b>ALL SPECIES</b>	<b>3,647,137.00</b>			

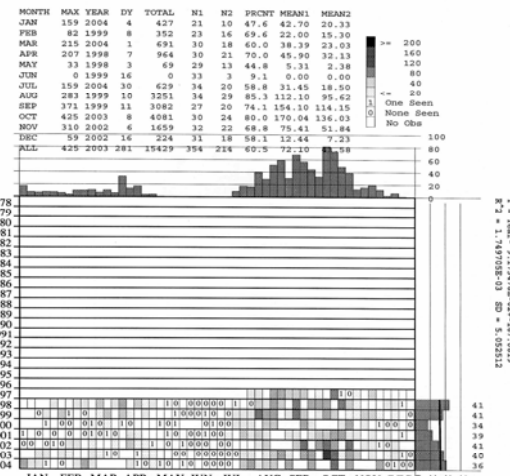
# Piping Plover Mustang I



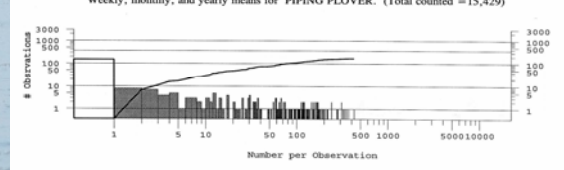
Weekly, monthly, and yearly means for PIPING PLOVER. (Total counted =94,957)



# Piping Plover San Jose I

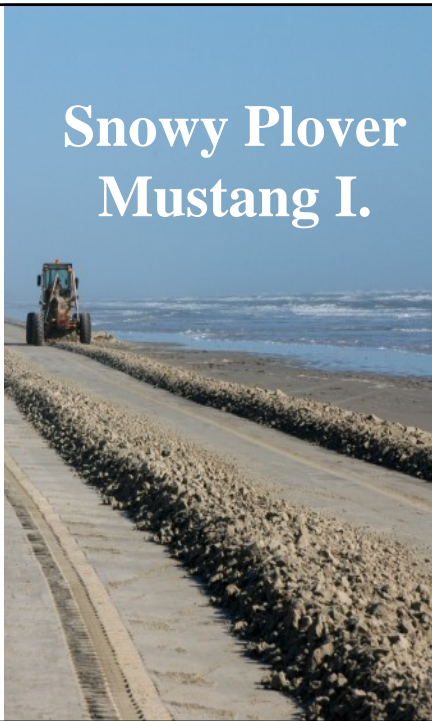
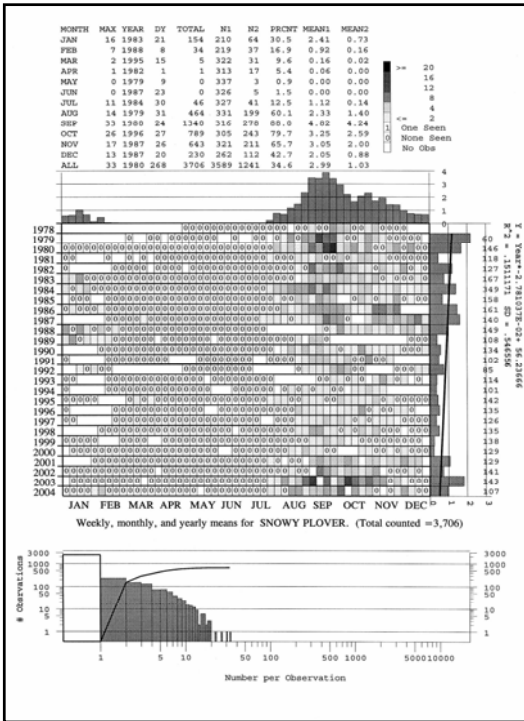


Weekly, monthly, and yearly means for PIPING PLOVER. (Total counted =15,429)

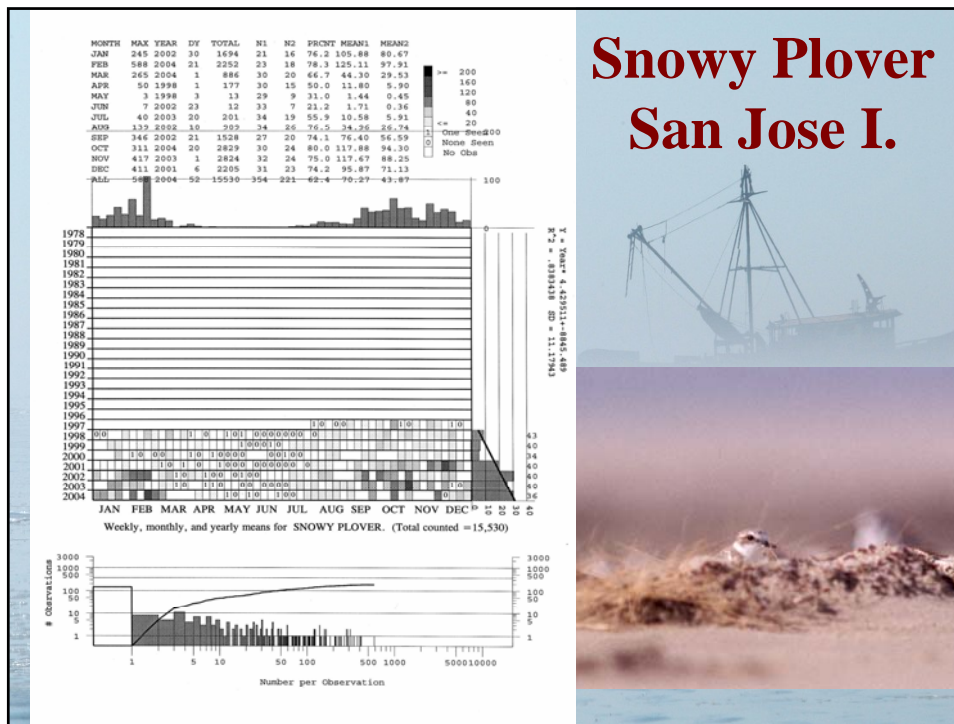




# A "Sea" of Snowy Plovers



# Snowy Plover Mustang I.



## Snowy Plover San Jose I.



A Roost of Wilson's Plovers

