



San Clemente Shoreline Monitoring Program

Beaches, Parks & Recreation Commission

Kick-off Meeting
October 11, 2022



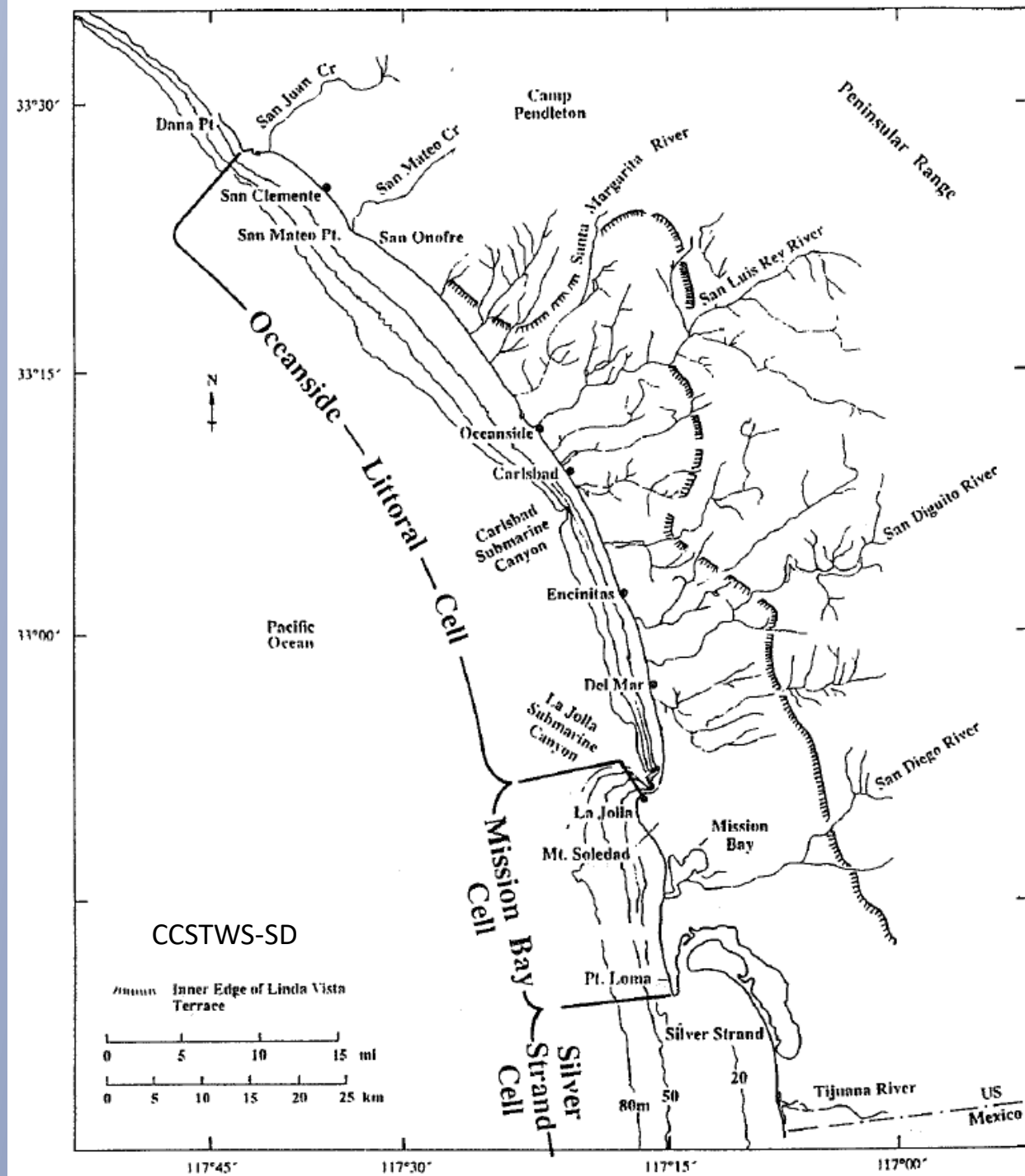
Agenda

- **Regional Setting (Background)**
- **Monitoring Program Overview**
- **Schedule**
- **Findings (2001-2007 Program)**



Regional Setting

- Study Area
- Sediment Transport
 - Alongshore
 - Cross-Shore
- Wave Climate
- Water Levels
 - Astronomical Tides
 - Anomalies (Storm Surge; El Niño)
 - Sea Level Rise



Shoreline Monitoring Program Overview

- **Measure Changes in Shorezone**
 - Builds on Previous Efforts
 - 12 Sites (Doheny to Cotton's Point)
 - Fall and Spring Beach Profile Surveys
- **Evaluate and Plan Shoreline Projects**
 - Corps of Engineers Nourishment
 - Opportunistic Nourishment
 - Nature-based Adaptation
- **Document Impact of Natural Events**
 - El Niño
 - SLR



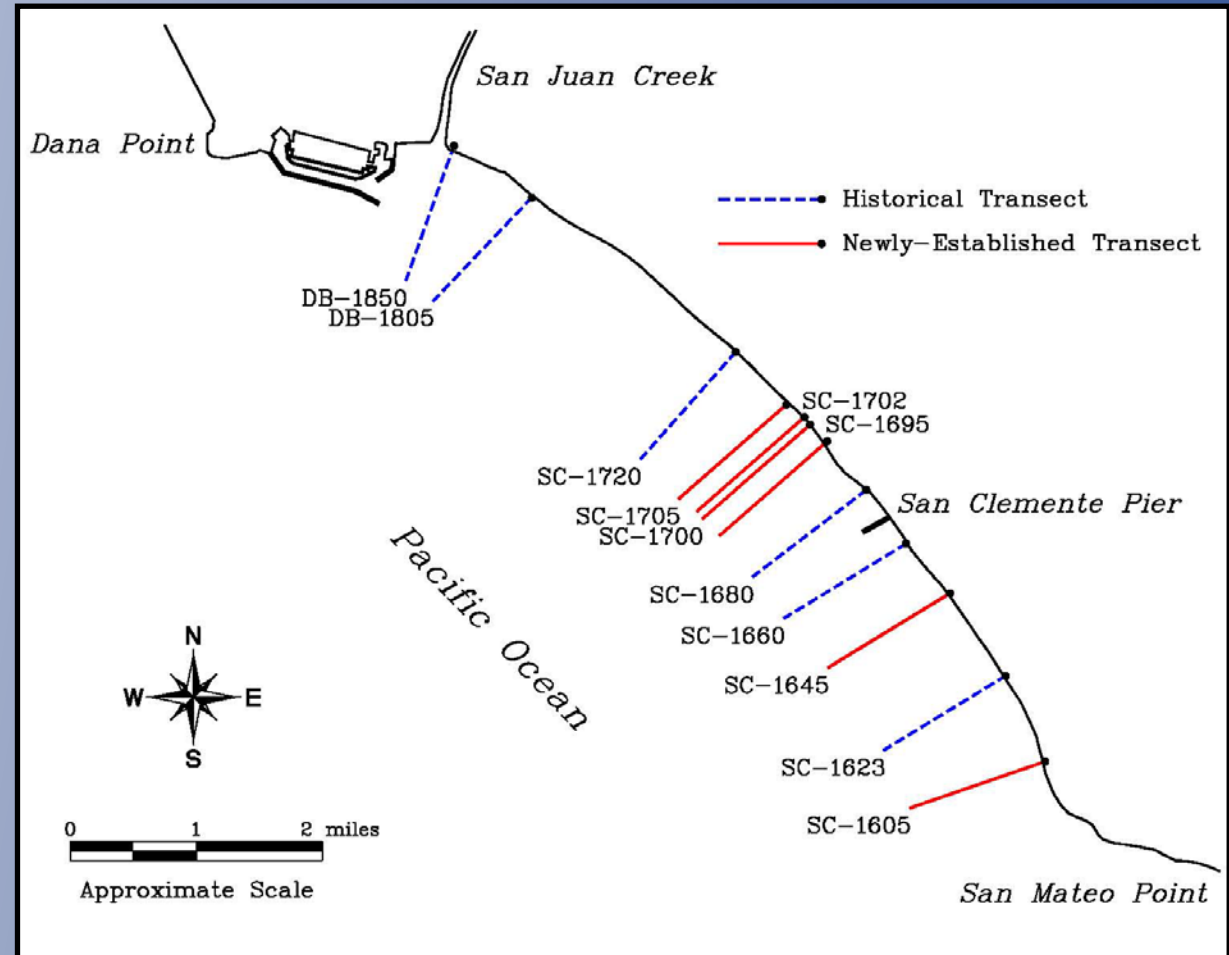
Program Overview

➤ Historical Data

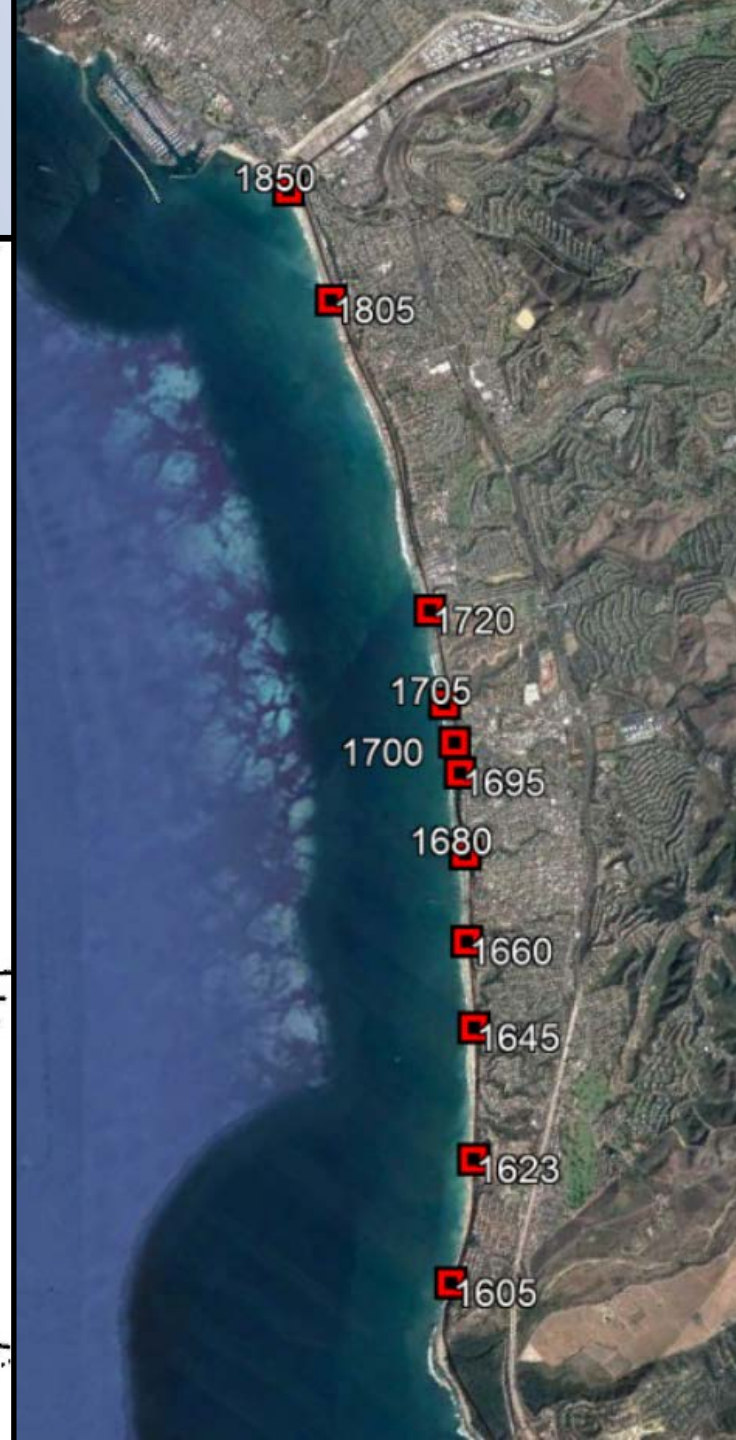
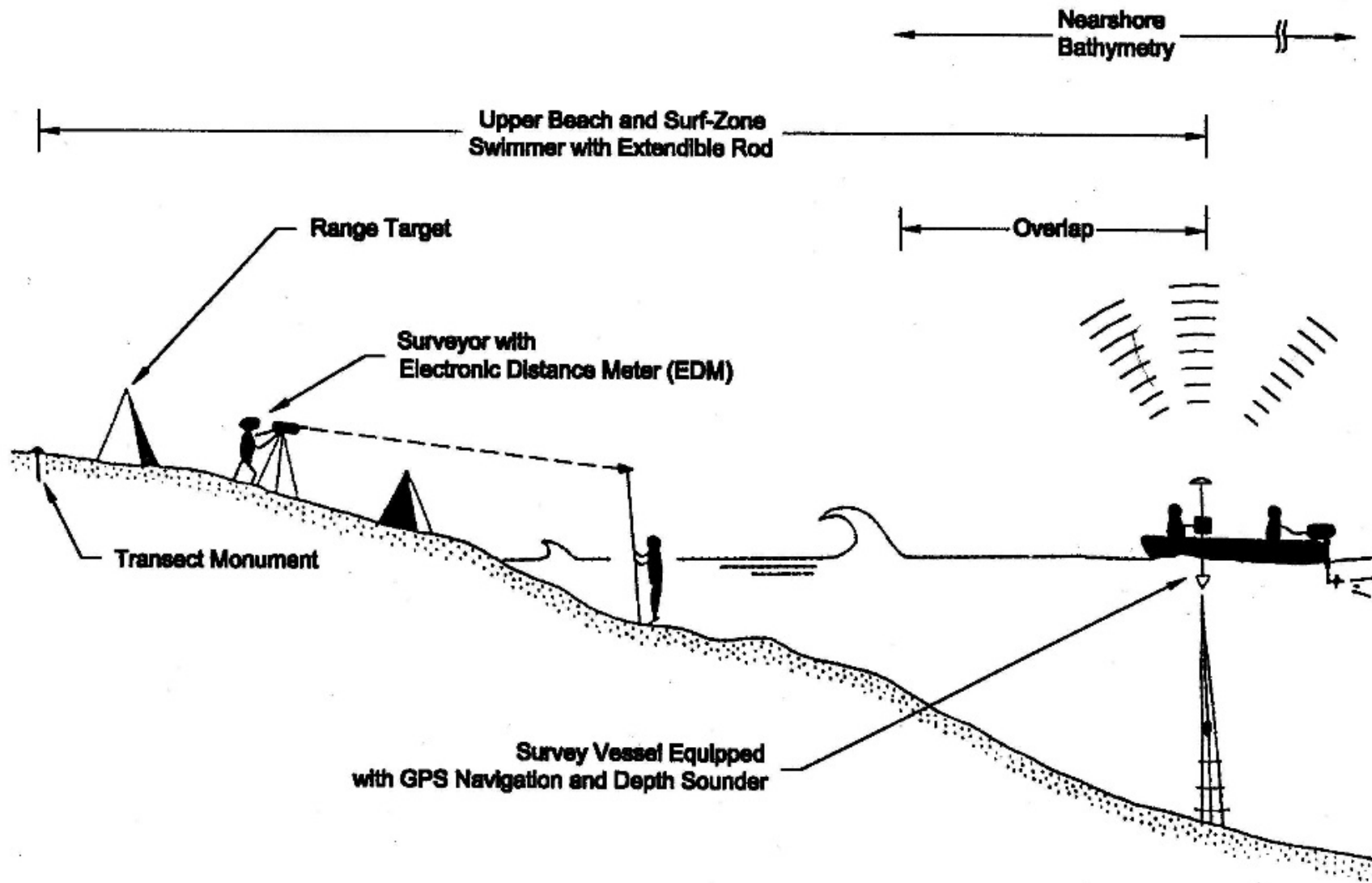
- CCSTWS-SD
- City Program (2001-2007)

➤ Current Program

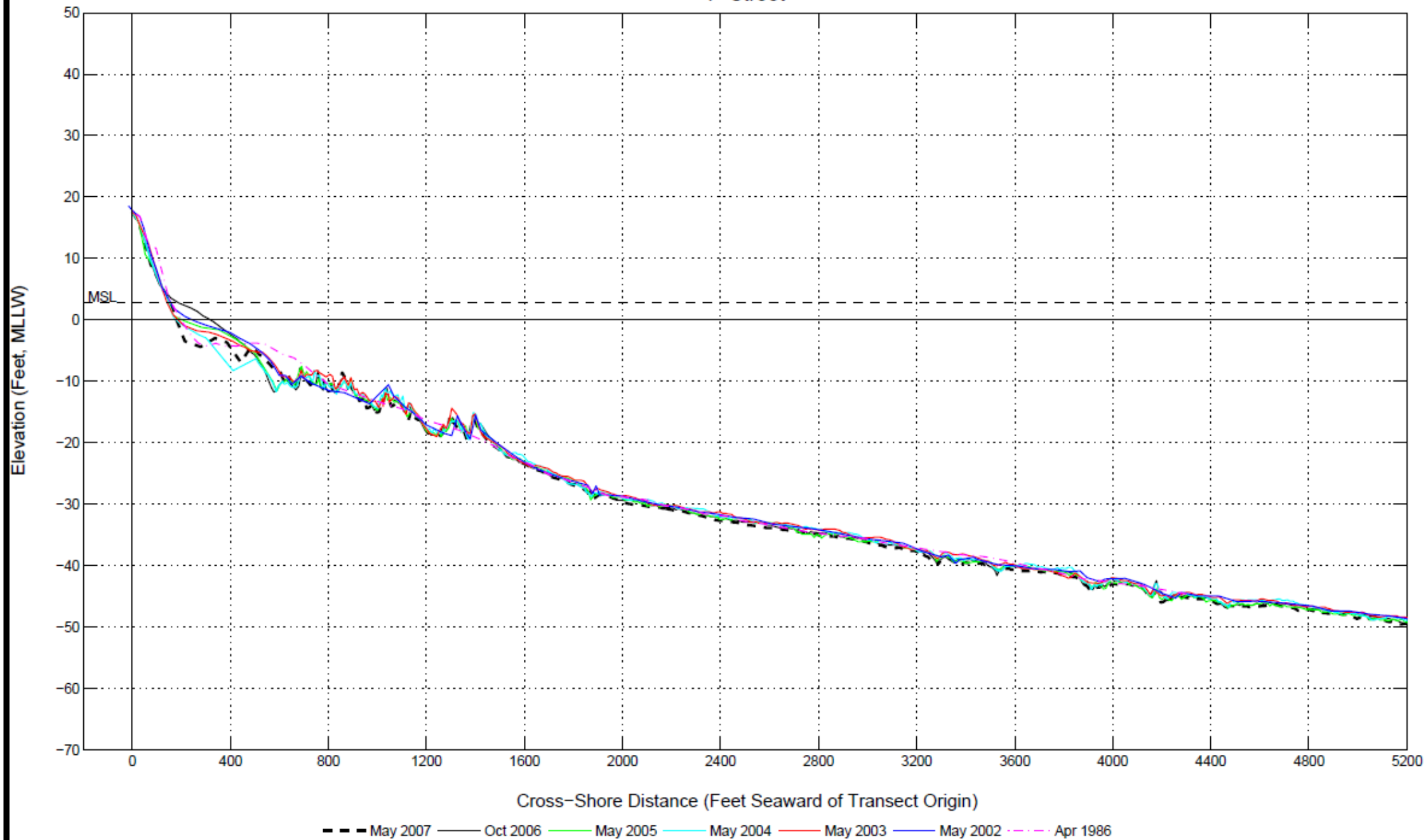
- Period: 2022-2025
- Fall and Spring Surveys
- 12 Transects



Beach Profile Surveys



Transect SC-1660
T-Street



Schedule

- **Transect Re-Establishment:** September 2022
- **Fall 2022 Survey:** October 2022
- **Future Surveys:** Fall/Spring Basis



Findings from Prior Study

➤ Prior Program

- Beach Profile Surveys (2001-2007)
- Incorporate CCSTWS-SD Data (1983-1989)

➤ Beach Widths

- Range
- Long-Term Changes (1986-2006)
- Program-Era Changes (2001-2006)

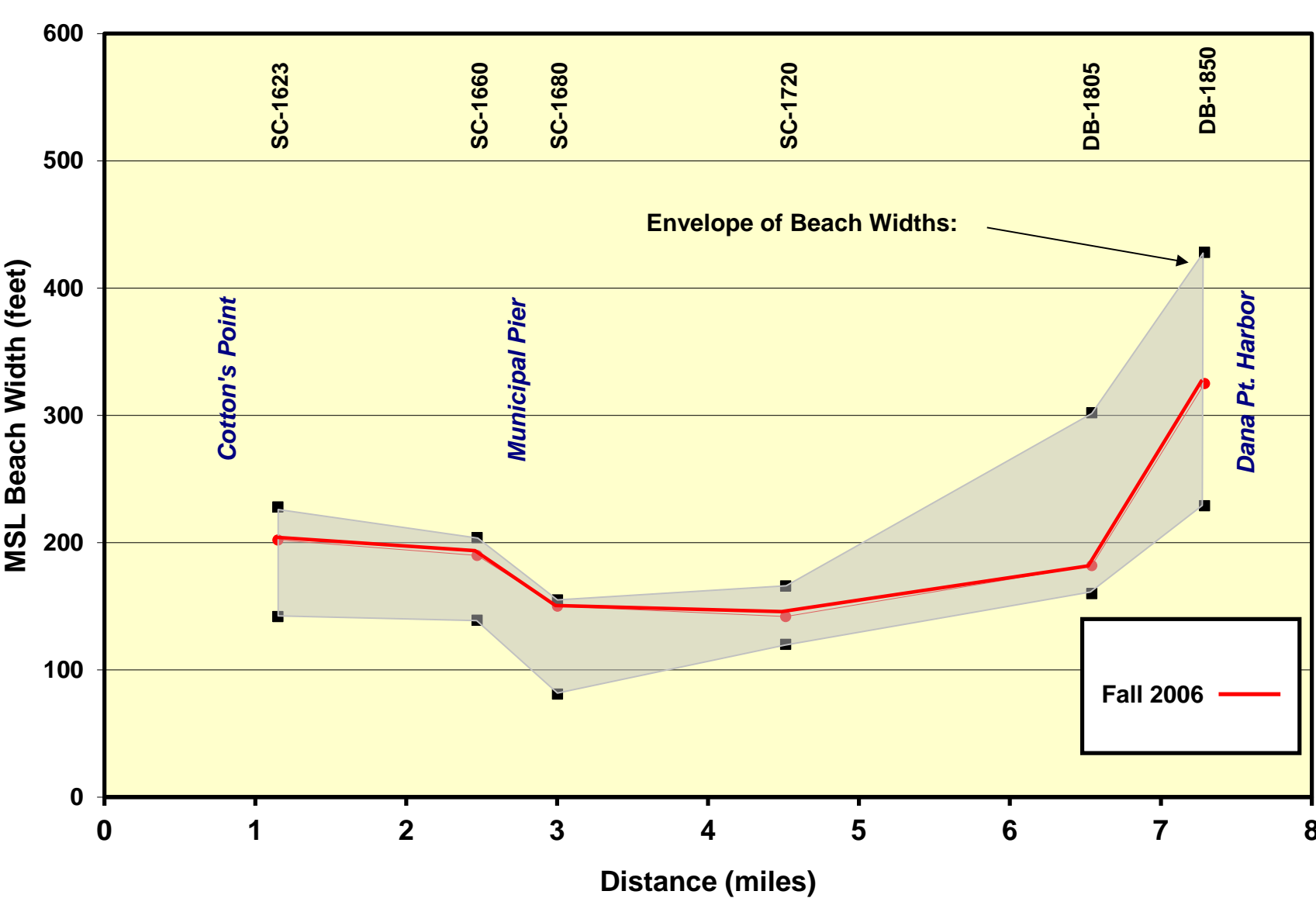
COASTAL
FRONTIERS

**CITY OF SAN CLEMENTE
BEACH MONITORING PROGRAM**
—
**SPRING 2007 BEACH PROFILE
SURVEY REPORT**

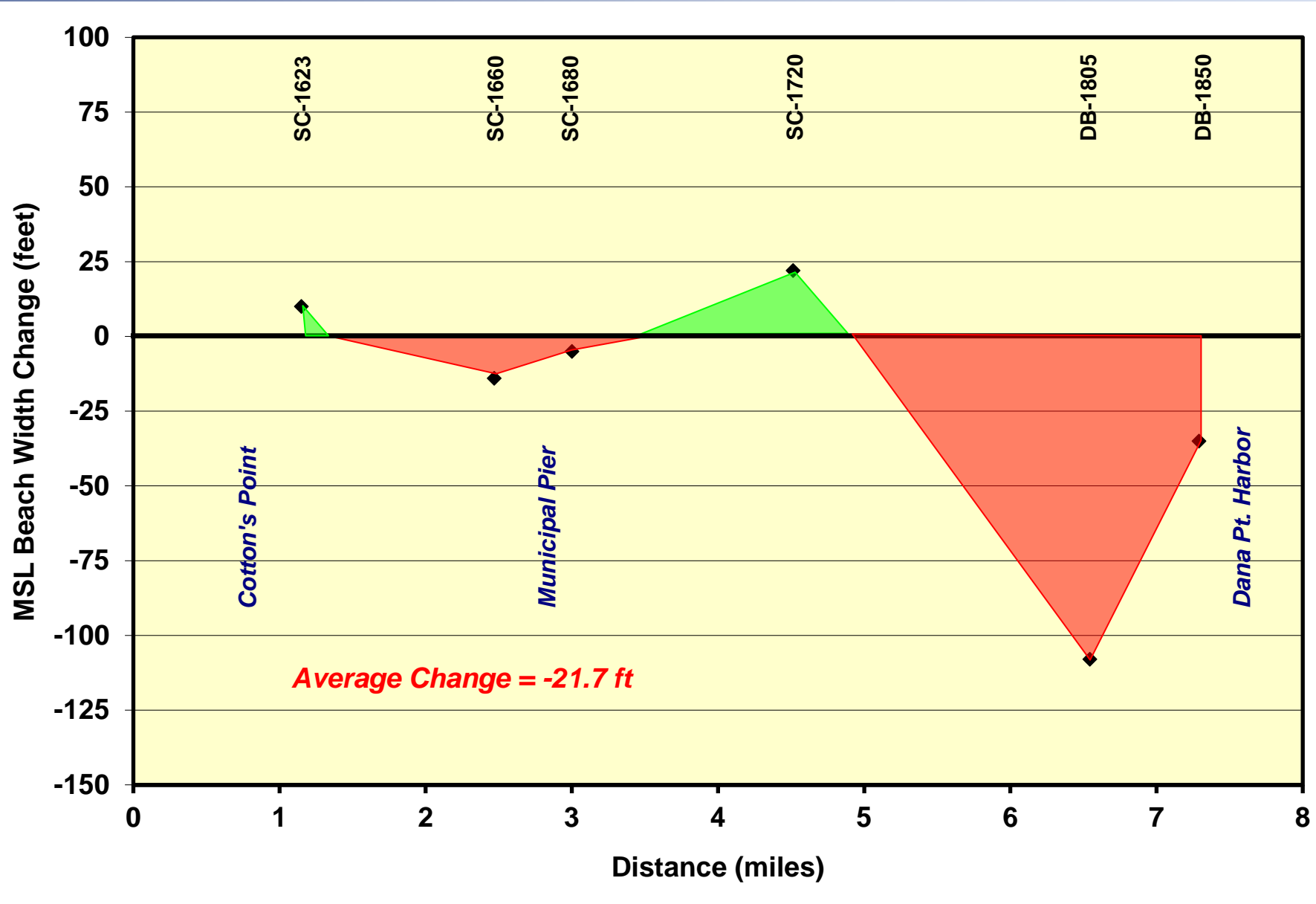
Prepared for:
City of San Clemente

Coastal Frontiers Corporation
9420 Topanga Canyon Blvd, Suite 101
Chatsworth, CA 91311-5759
(818) 341-8133 Fax: (818) 341-4498

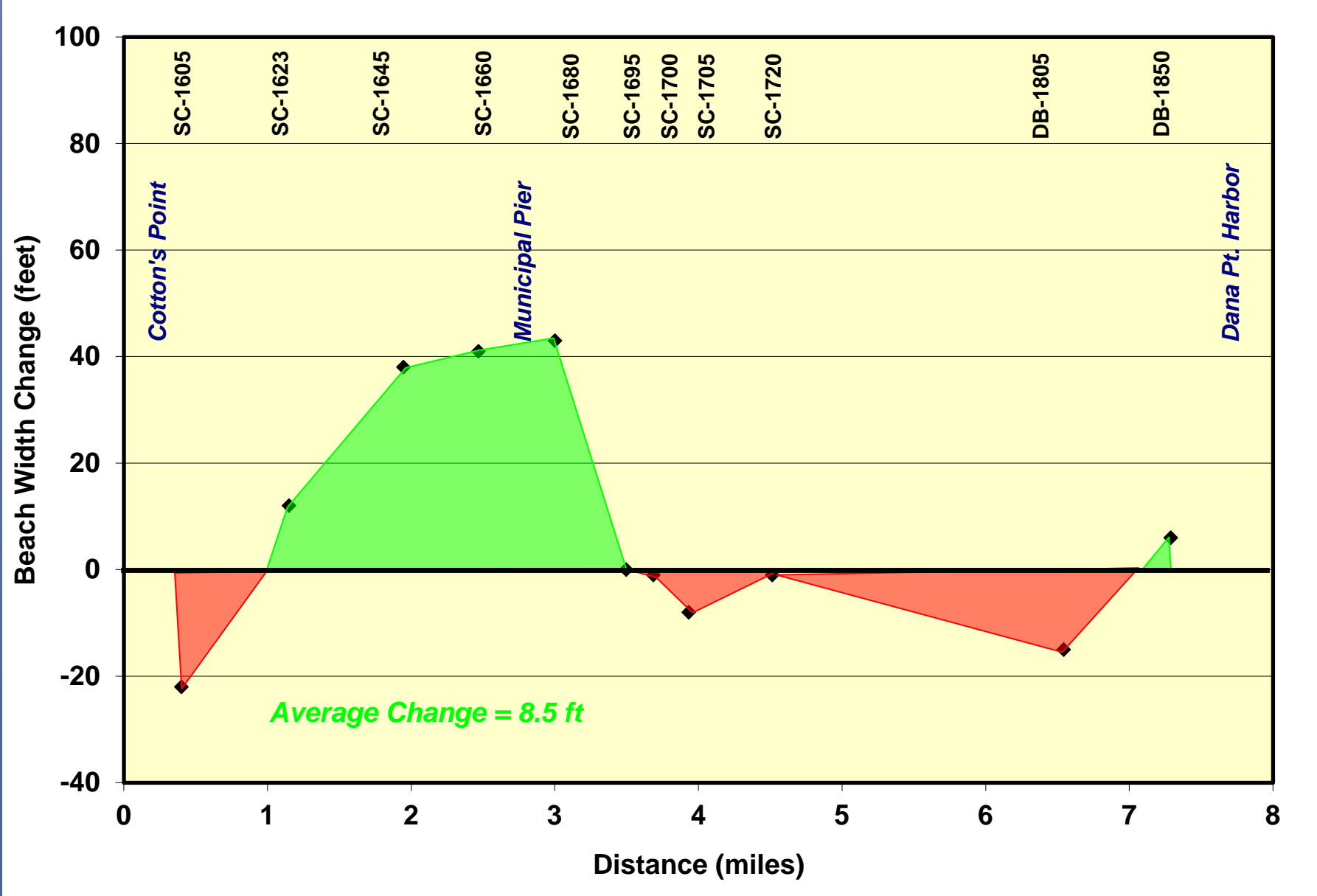
Beach Widths



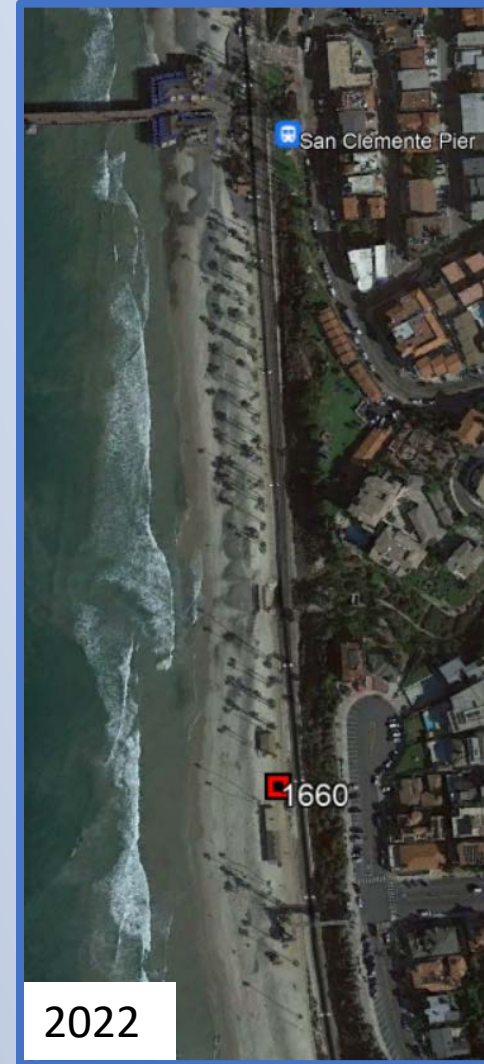
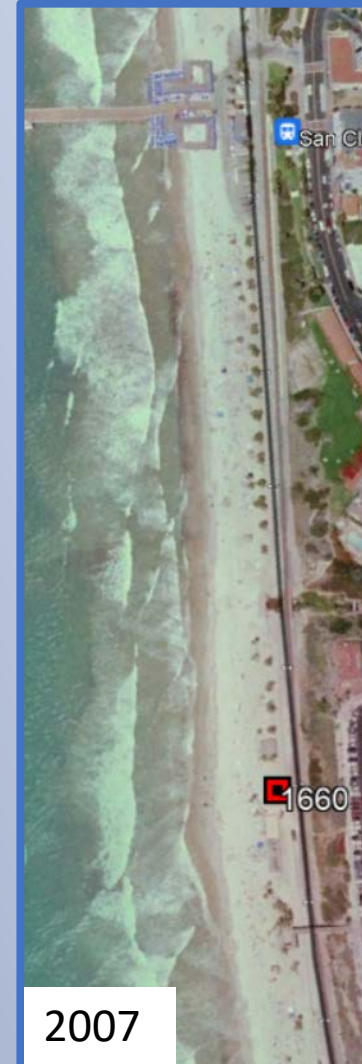
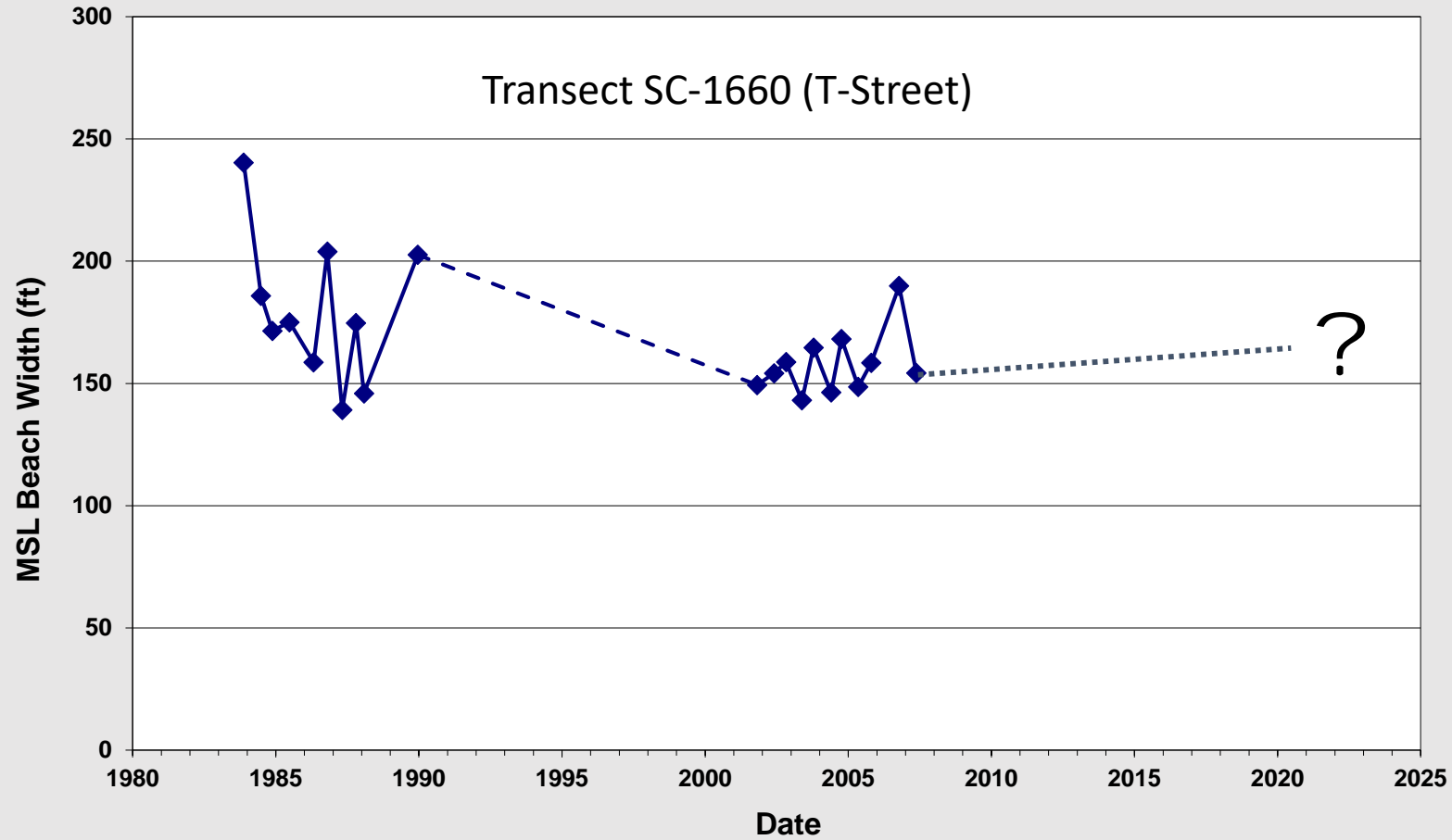
Beach Width Change (Fall 1986 to Fall 2006)



Beach Width Change (Fall 2001 to Fall 2006)



Beach Widths



Questions

