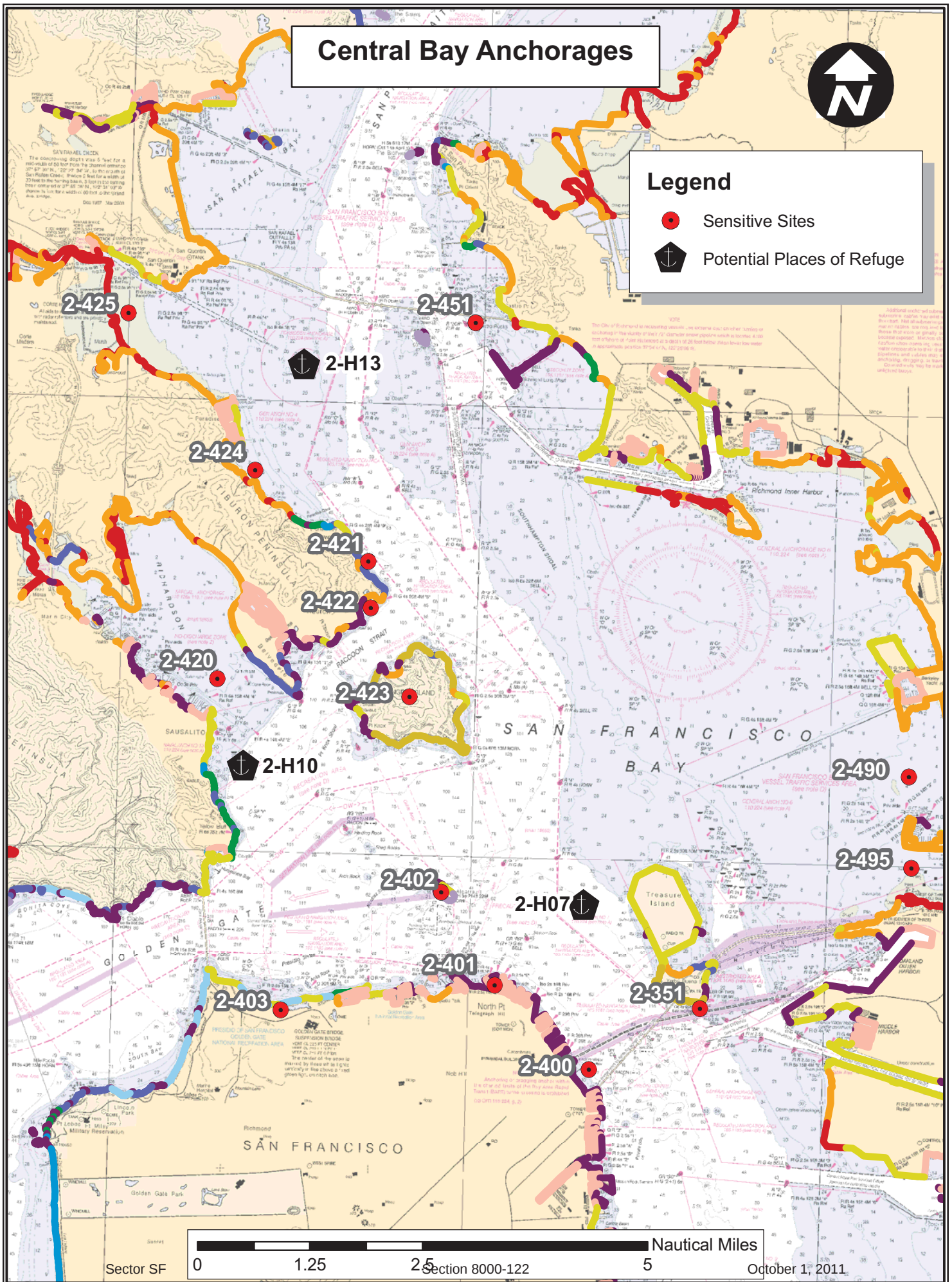


Central Bay Anchorages



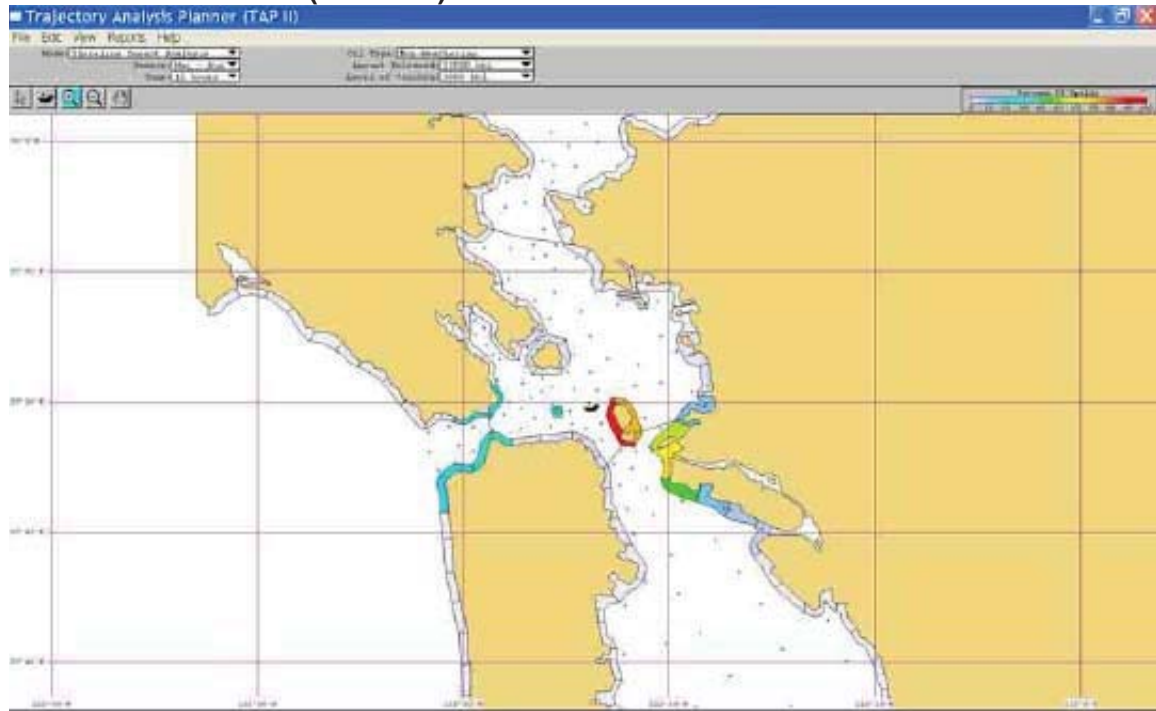
Legend

-  Sensitive Sites
-  Potential Places of Refuge

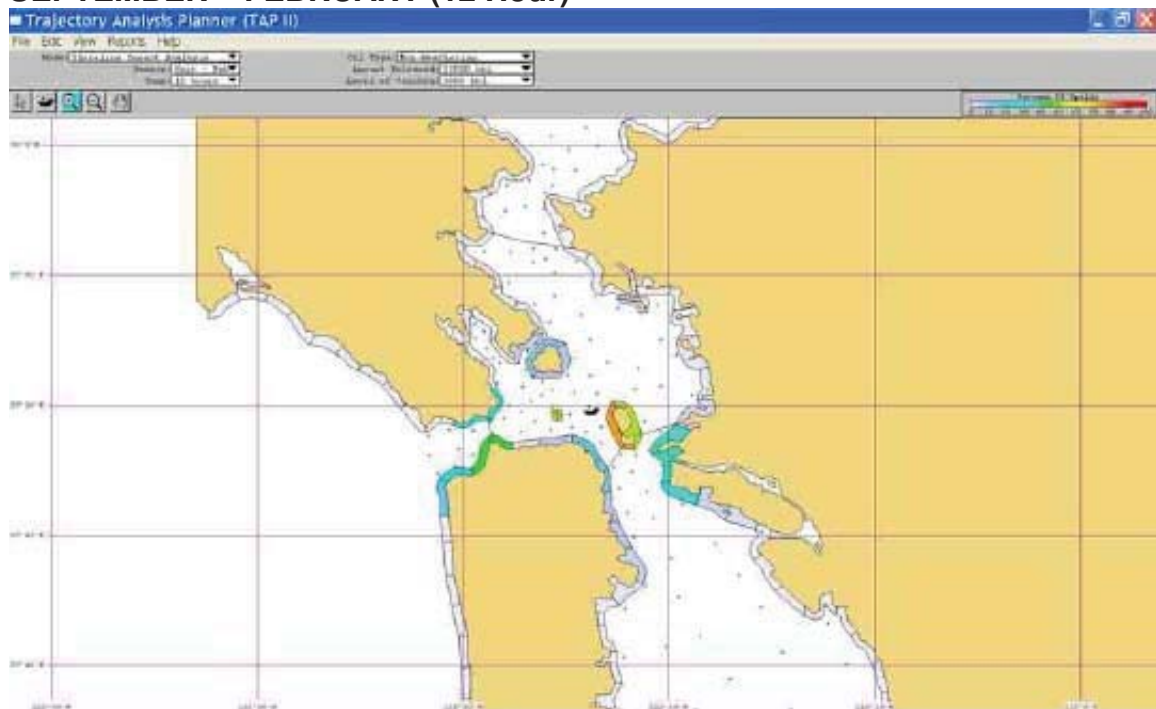


TRAJECTORY ANALYSIS PLANNER (TAP Model)
Location: 2-H07 (Anchorage 7)

MARCH – AUGUST (12 Hour)



SEPTEMBER – FEBRUARY (12 Hour)



PPOR Pre-Incident Information SummaCentral Bay Anchorages: Anchorage 7		
Latitude 37° 49.	122.4 Longitude 122° 2	122.39
County San Francisco, Marin, Alameda, Contra Costa		
		2-H07
		Type: Anchorage

Location Description:

The Central Bay of the San Francisco Estuary provides a wide array of resources both of great natural and cultural significance. It is bounded by the iconic Golden Gate Bridge and contiguous with many properties on the National Register of Historic Places including Alcatraz Island, Fort Point National Historic Site. Because of its proximity to the Pacific Ocean, the assemblage of organisms is more similar to the outer coast (e.g., attached intertidal community) than sites further upstream in the Estuary. The highest diversity of attached, native marine algae can be found at intertidal sites in the Central Bay. Because of its strategic location at the Golden Gate strait, the Central Bay is the most important migratory corridor between the Pacific Ocean and the estuarine and riverine habitats upstream in California. Many of the islands within the Central Bay have exceptional value for seabirds. Alcatraz Island, for instance, has the largest western gull breeding population in the San Francisco Estuary; Brandt's cormorants are only one of two estuarine breeding colonies, and is one of the largest in the region.

Natural Resource Concerns and Issues for this Place / Site

Threatened and Endangered Species (TAES):

YBI-(S/F-E/E) peregrine falcon present year-round, nest Mar-Aug.

Crissy Field-(F-E) California seablite plant present year-round. (Rare)
Point Reyes bird's-beak plant present year-round.

Keil Cove - (F-T) California red-legged frog present year-round in lagoon.

Corte Madera Marshes - (S/F-E) California clapper rail, (S-T) black rail, (S/F-E) salt marsh harvest mouse present year-round, also North Coast bird's beak,Marin knotweed (rare plants).

Emeryville Lagoon/Mudflat (S/F-E) California clapper rail, (S/F-E) salt marsh harvest mouse present year-round, also North Coast bird's beak (rare plant).

Sensitive Non-protected (Non-TAES) Species:

SFACP2:351A/B,400C/X,401B,402B,403A,420A,421X/B,422A/C,423X/C,424A/EX,425A,451A,490A,495A; ESI/SFB-Maps 14,16,17
YBI-Small cobble pocket beaches south side island are pinniped haulout and rookery Mar-Jun, bird roosting (double-crested cormorant) year-round, nesting. SF Waterfront herring spawning in winter, birds roost/forage year-round. Pier 39 sea lion haulout year-round, highest numbers Aug-Mar. Alcatraz bird colony rookery/roosting year-round (Western gulls, Brandt's and pelagic cormorants, snowy egrets, black-crowned night herons, pigeon guillemots), brown pelican Mar and Dec, herring spawning in winter

Critical Habitat for TAES:

Rare native plants in Crissy Field restoration area. Habitat for California brown pelican at Angel Island. Alcatraz Island is also "critical habitat" for California brown pelican. Baylands Nature Preserve in Richardson Bay and Corte Madera Marsh State Ecological Reserve (CDFG). Emeryville lagoon / mudflat provides pickleweed habitat for listed species.

Critical Habitat for Non-protected (Non-TAES) Species:

PPOR Pre-Incident Information SummaCentral Bay Anchorages: Anchorage 7

Latitude 37° 49. 122.4 Longitude 122° 2 122.39

County San Francisco, Marin, Alameda, Contra Costa

2-H07

Type:
Anchorage

months, harbor seal and California sea lion haul out at small intertidal rocks NW of island. Crissy Field (in GGNRA) is high profile restored native tidal marsh, important resting/foraging habitat for waterbirds/shorebirds/seabirds in urban setting. Richardson Bay marshes support extensive pickleweed and eelgrass beds with herring spawning, extensive mudflats provide foraging for birds and fish, rocky shorelines provide roosting/haul out for birds and harbor seals. Paradise Cove/Tiburon Peninsula supports seabirds including cormorants, brown pelicans, harbor seal and sea lion foraging, herring spawning in winter. Keil Cove supports eelgrass beds, herring spawning in winter and brown pelicans, Angel Island State Park provides harbor seal/sea lion haulout, seabird (brown pelican, cormorant, gulls) nesting/foraging, herring spawning on eelgrass in winter. Paradise Cay Eelgrass and Marina support many fish species (herring) and brown pelicans, shorebirds (western gulls), wading birds, diving birds. Corte Madera Marshes and mudflats heavily used for foraging by migratory shorebirds and waterfowl fall and winter, and year-round by marsh birds, harbor seals haulout and pup in spring. East section of Richmond-San Rafael Bridge supports large double-crested cormorant colony. Castro Rocks harbor seal rookery in spring (15 Mar-10 Jun), haulout in winter, heavy bird use area (cormorants, pelicans). East span Bay Bridge supports large double-crested cormorant colony. Emeryville Lagoon/Mudflat important habitat for seabirds, shorebirds, migratory waterfowl for roost/forage, listed species, rare plants.

Subsistence-use Species:

Critical Habitat for Subsistence Species:

Essential Fish Habitat:

Historic and Cultural Resources:

Commercial Fisheries / Species:

Recreational Species and Habitat:

Halibut spawning along eastern shores of Angel Island. Herring spawning in several areas including shorelines of Richardson Bay, Tiburon Peninsula, Angel Island, Alcatraz, and Berkeley and Emeryville eelgrass beds. Commercial fishing from TI/YBI.

Alcatraz-National historic prison site (NPS) with buildings. Crissy Field cultural/historic site within Golden Gate National Park. Angel Island cultural/historic site within State Park.

Human Health / Safety Concerns and Economic Issues for this Place / Site

PPOR Pre-Incident Information SummaCentral Bay Anchorages: Anchorage 7

Latitude 37° 49. 122.4 Longitude 122° 2 122.39

County San Francisco, Marin, Alameda, Contra Costa

2-H07
Type: Anchorage

Human Health and Safet

Economic Impact on Maritime Commerce and Shipping:

Economic Impact on Commercial Fishing and Aquaculture:

Economic Impact on Non-maritime Commerce:

Economic Impact on Recreational Fishing and Marine Tourism:

Other Economic Impacts:

Stakeholder List for this Place / Site

Name / Title		Organization	Phone	more details
Shoreline Unit Manag		East Bay Regional Park District	(510) 544-3172	
Dispatch		East Bay Regional Park District	(510) 881-1833	
Park Supervisor		EBRPD-Eastshore State Park	(510) 544-3108	
Sarah Allen		US National Park Service, Pt. Reyes (NS)	(415) 464-5187	
John Bradley	Refuge Manager	SF Bay National Wildlife Refuge Complex	(510) 792-0222	
Chevron Long Wharf		Chevron Corp., Operations Control Room (24hrs.)	(510) 242-4494	
CenCom DPR DISPATCH		CA Dept. of Parks & Recreation	(831) 649-2817	
John Henderson	FWS Biologist	US Fish & Wildlife Service, Environmental Contami	(916) 414-6595	
Damian Higgins		U.S. Fish & Wildlife Service	(916) 414-6548	
Marin Co Parks Dispatch		Marin, County of, Open Space District	(415) 499-6387	
Marin County OES (Of		Marin, County of, Sheriff's Office of Emergency Serv	(415) 499-6584	
Dave Matthews	Park Superintendent	CA Department of Parks and Recreation	(415) 435-8339	
Brian J. Sanford		Marin, County of, Parks & Open Space	(415) 499-6405	
Vika Sirova	EnvProtectSpecialist	US National Park Service, Golden Gate (NRA)	(415) 561-4478	
Operations State Water Project		CA Department of Water Resources	(916) 574-2714	
Brian Ullensvang	Env. Programs Chief	Golden Gate National Recreation Area - NPS	(415) 561-4439	

Characteristics and Tactical Considerations

Primary Jurisdictional Contact: USCG SECTOR SF Marine Fire Fighting Resources SF PIER 24: 37-47.42, 122-23.24

Approximate Tug Response Time 1 HOUR

List of Nearby Environmentally Sensitive Sites SFACP2:351A/B,400C/X,401B,402B,403A,420A,421X/B,422A/C,423X/C,424A/EX, Is Containment Possible? ☐

Coast Pilot and Navigation Chart Information

Prevailing Winds	Tidal Range	Bottom Type	Max Water Depth	Min Water Depths	Currents	Sea Conditions	Fog	Shelter From Severe Storms	Navigation Approach	Pilot Requirements
W	6		70	0			SEASONAL NO			☒

PPOR Pre-Incident Information SummaCentral Bay Anchorages: Anchorage 7

Latitude 37° 49. 122.4 Longitude 122° 2 122.39

County San Francisco, Marin, Alameda, Contra Costa

2-H07

Type: Anchorage

Specific Site Details

Site ID	Site Name	Vessel Capacities			Site Capacities and Facilities		ContainmentPossibilities:
		Max Size	Mini Size	Max Draught	Swing Room or Dock Face	Facilities, capabilities, and any other issues or concern	
07	Anchorage 7	1500		50		0 THIS SITE IS NEAR TRAFFIC LANE; THIS SITE IS A 12 HOUR ANCHORAGE; SWING ROOM OR DOCK FACE: 1/2 MILE	There is no potential for primary containment for this and most anchorages in the Central Bay due to currents exceeding 0.7 knt and turbulence. Similarly there is no significant opportunity for secondary confinement of oil escaping primary containment.
Site Contact/Leasee/Owner:							