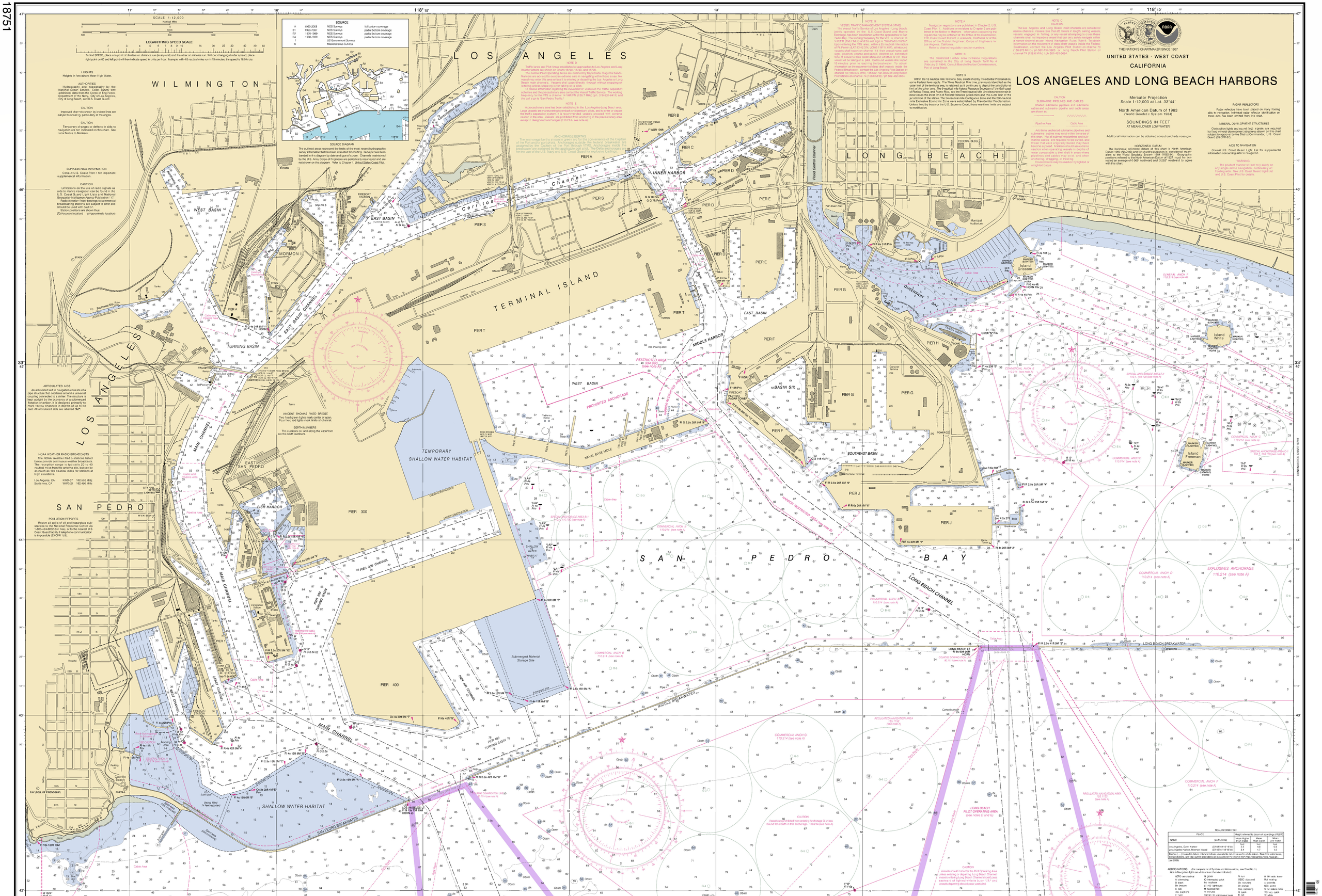
SOUNDINGS IN FEET



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

CALIFORNIA

LOS ANGELES AND LONG BEACH HARBORS

Mercator Projection
Scale 1:12,000 at Lat. 33°44'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum 1983 (NAD 83) and for all sailing purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referenced to the North American Datum of 1927 must be corrected an average of 0.06" northward and 3.25" westward to agree with this chart.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

MINERAL DEVELOPMENT STRUCTURES

Construction lights and sound (fog) signals are required for fixed mineral development structures shown on this chart subject to approval by the District Commander, U.S. Coast Guard (33 CFR 67).

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

TIDAL INFORMATION

PLACE	Height referred to datum of soundings (MLLW)			
NAME	LATITUDE LONGITUDE	Mean High Water High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Los Angeles, Outer Harbor	33°43'N 118°16'W	5.4	4.7	0.8
Los Angeles Harbor, Morrison Island	33°43'N 118°16'W	5.4	4.7	0.8

Datum: - - - Inconsiderable datum columns indicate unavailable datum values for a tide station. Real time water levels, tide predictions, and tide current predictions are available on the internet from http://tidesandcurrents.noaa.gov - Jan 2008

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

ABNG aeronautical	Gr green	N n.n	R lit radio tower
Al alternating	ID interrupted quick	OBSC obscured	Rot rotating
Bn beacon	IQ int quick	Or orange	RW red white
Bn beacon	LFl LIGHT	Or orange	SEC sector
C can	M nautical mile	Osc oscillating	St M statute miles
Dh daytime	m minutes	Q quick	VQ very quick
F fixed	UQ/LQ Ult unprovisioned tower	R red	W white
Fl flashing	Vis visible	Ra Ref radar reflector	WHG whistle
	Mo morse code	R (lit radiobeacon	Y yellow

Rotation characteristics:

Bnds boundary	Co coral	gr gritty	Oys oysters
Cl clean	G gravel	Hr hard	Rk rock
Gy gray	Sn green	M mud	S sand

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful
BO overhead obstruction	Pos position approximate	Rep reported
Wreck, rock, obstruction, or shoal sweep; see to the depth indicated		
Rocks that cover and uncover, with heights in feet above datum of soundings		
COLREGS International Regulations for Preventing Collisions at Sea, 1972		
Demarcation lines are shown:		

Submerged Pipeline

Submerged Cable

Submerged Cable Area

Submerged Pipeline Area

Submerged Cable Area

Submerged Pipeline Area

Submerged Cable Area

Submerged Pipeline Area