

ORIGINAL



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Ocean and Earth Sciences
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: July 15, 1993

MARINE CENTER: Pacific

OPR: L344

HYDROGRAPHIC SHEET: H-10456

LOCALITY: California, San Francisco Bay, Golden Gate to the vicinity of Yerba Buena Island

TIME PERIOD: March 9 - April 27, 1993

TIDE STATION USED: 941-4290 Fort Point, San Francisco, Ca.
Lat. $37^{\circ} 48.4'N$ Lon. $122^{\circ} 27.9'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = 5.77 feet
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 5.2 feet

TIDE STATION USED: 941-4782 Yerba Buena Island, Ca.
Lat. $37^{\circ} 48.6'N$ Lon. $122^{\circ} 21.6'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = 8.97 feet
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 5.6 feet

REMARKS: RECOMMENDED ZONING

1. East of the Golden Gate Bridge, west of $122^{\circ} 26.0'W$ and south of $37^{\circ} 50.0'N$, times and heights are direct on San Francisco, Ca. (941-4290).
2. West of $122^{\circ} 26.0'W$, north of $37^{\circ} 50.0'N$ and south of $37^{\circ} 51.7'N$, apply a +15 minute time correction and a X0.95 range ratio to San Francisco, Ca. (941-4290).
3. East of $122^{\circ} 26.0'W$, west of $122^{\circ} 22.3'W$, north of $37^{\circ} 48.5'N$ and south of $37^{\circ} 50.0'N$, apply a +15 minute time correction and a X1.02 range ratio to San Francisco, Ca. (941-4290).



HYDROGRAPHIC SHEET: H-10456 (continued)

4. East of $122^{\circ} 26.0'W$ and north of $37^{\circ} 50.0'N$, apply a +30 minute time correction and heights are direct on San Francisco, Ca. (941-4290).
5. In the area east of $122^{\circ} 22.3'W$ and south of $37^{\circ} 50.0'N$; and in the area south of $37^{\circ} 48.5'N$ and north of $37^{\circ} 47.0'N$, between San Francisco and Oakland, times and heights are direct on Yerba Buena Island, Ca. (941-4782).

NOTE: Hourly heights are tabulated on Pacific Standard Time.



CHIEF, DATUMS SECTION



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TIDE NOTE FOR HYDROGRAPHIC SURVEY

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DATE: August 31, 1993

MARINE CENTER: Pacific

OPR: L344

HYDROGRAPHIC SHEET: Item investigation in H-10456

LOCALITY: California, San Francisco Bay, Golden Gate to the vicinity of Yerba Buena Island
(37° 50'41.004"N Latitude, 122° 22'10.85"W Longitude)

TIME PERIOD: August 24, 1993 @ 18:30:33 GMT

TIDE STATION USED: 941-4290 Fort Point, San Francisco, Ca.
Lat. 37° 48.4'N Lon. 122° 27.9'W

The height of tide at the time of the hydrographic measurement was estimated to be 2.83 feet above Mean Lower Low Water.

William M. Gibson
ACTING CHIEF, DATUMS SECTION

