

Scale: 300 feet to the inch.



Observation Spot: Lat. 21° 15' 12" N. Long. 157° 49' 19" W.
Mr. Silliman's Observatory: Lat. 21° 15' 23" N. Long. 157° 48' 14" W. from Honolulu.

The soundings are expressed in feet as far as the green line, which is the eighteen-foot line, and beyond this line, in fathoms. All soundings are reduced to mean low water.

Caution: On the western side of the channel, the channel is too narrow with nine or ten feet of water coming down at low tide; no buoy marks their position. At low water, and with the sea rough, the surf occasionally breaks on them, but when smooth, this is seldom the case.

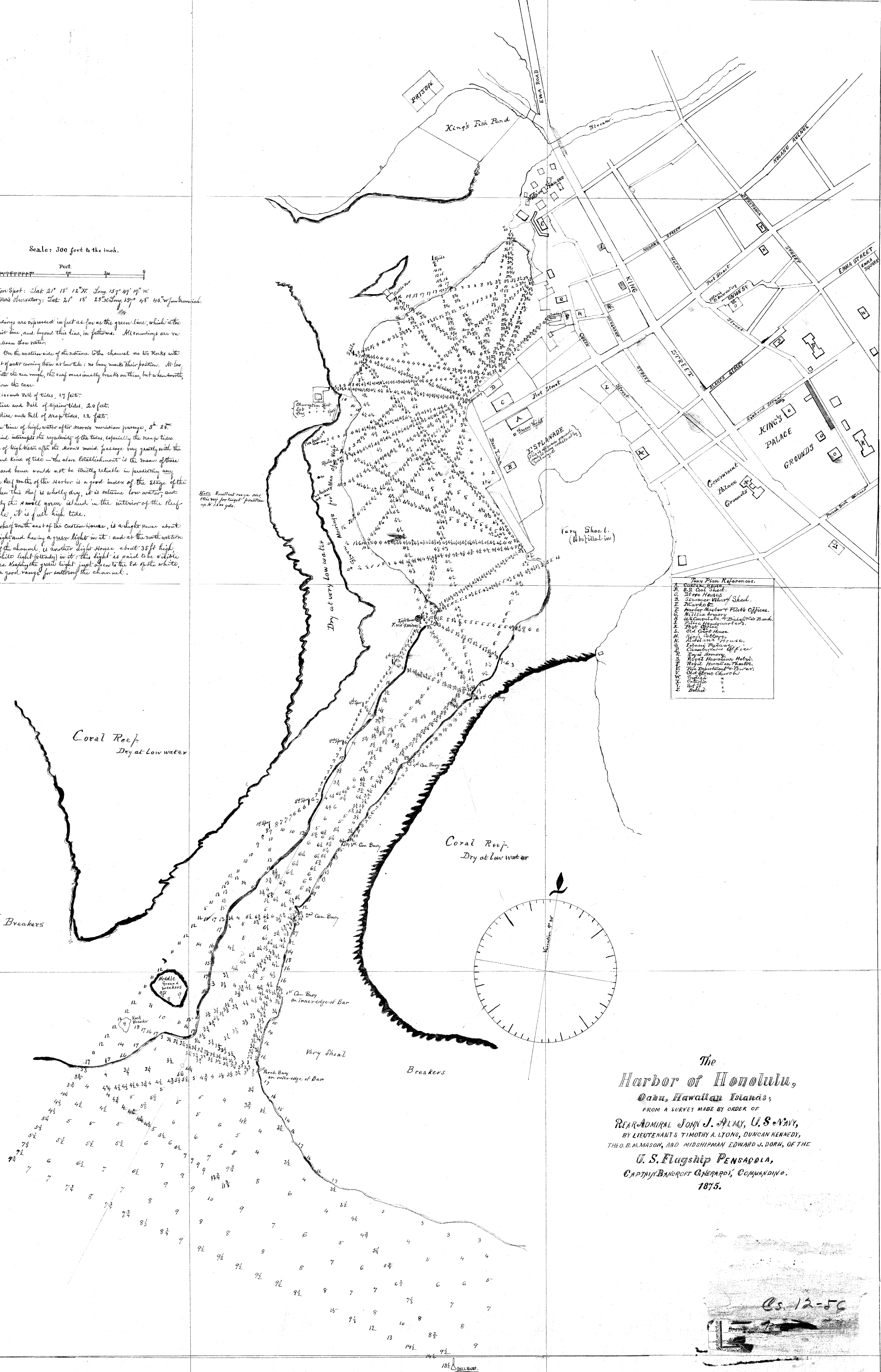
Mean Rise and Fall of tides, 17 feet.
Mean Rise and Fall of Spring-tides, 20 feet.
Mean Rise and Fall of Neap-tides, 13 feet.
Average time of high water after Moon's meridian passage, 5^h 28^m.
A strong wind interrupts the regularity of the tides, especially the neap tides. The times of high water after the Moon's meridian passage vary greatly with the weather and kind of tide — the above establishment is the mean of these times — and hence would not be strictly reliable in predicting any tide. The Reef south of the harbor is a good index of the stage of the tide: when this Reef is wholly dry, it is extreme low water, and when only the small space is covered in the interior of the Reef is visible, it is full high tide.

On the island south-east of the custom-house, is a slight mountain about 80 feet high and having a green light in it; and at the north-western extremity of the channel, is another slight mountain about 35 feet high, with a white light (steady) on it: this light is said to be visible nine miles. Keeping the green light just above to the left of the white, affords a good range for entering the channel.

Note: Smallest range ever observed for range position up to 1200 yds.

Plan Reference.

A	Custom House
B	U.S. Coast Shed
C	Store Houses
D	Steamer Wharf Shed
E	Wharves
F	Assessors' Offices & Police Offices
G	Military Armory
H	Commissioner of Public Works' Office
I	Post Office
J	Old Court House
K	Ally's Store
L	Ally's Store
M	Ally's Store
N	Ally's Store
O	Ally's Store
P	Ally's Store
Q	Ally's Store
R	Ally's Store
S	Ally's Store
T	Ally's Store
U	Ally's Store
V	Ally's Store
W	Ally's Store
X	Ally's Store
Y	Ally's Store
Z	Ally's Store



The
Harbor of Honolulu,
 Oahu, Hawaiian Islands,
 FROM A SURVEY MADE BY ORDER OF
REAR-ADMIRAL JOHN J. ALMY, U.S. NAVY,
 BY LIEUTENANTS TIMOTHY A. LYONS, DUNCAN KENNEDY,
 THEO. B. MASON, AND MIDSHIPMAN EDWARD J. DORN, OF THE
U. S. Flagship PENSACOLA,
 CAPTAIN BARNABOT CHERARDI, COMMANDING.
 1875.

Os. 12-56

