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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL COAST GUARD
COAST SURVEY

MERCATOR PROJECTION AT SCALE 1:10,000 & 1:25,000
SOUNDINGS IN FEET
AT MEAN LOW WATER UNLESS SHOWN OTHERWISE AND AT LOW WATER OF LUNAR SPRING TIDES UNLESS SHOWN OTHERWISE

North American Datum of 1983
(Unless otherwise specified)

18447

NOAA WEATHER RADIO BROADCASTS
CITY NAME STATION FREQUENCY BROADCAST TIMES
Seattle, Wash. WTTW 162.475 1500Z-1800Z
Olympia, Wash. WTTW 162.475 1500Z-1800Z

PROVIDED BY ELECTRONIC CHARTS AND PUBLISHED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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NAME AND ADDRESS NATIONAL WEATHER SERVICE
8800 Rockledge Drive
Silver Spring, MD 20910
Telephone: 301-709-8200
Fax: 301-709-8201
Internet: www.weather.gov

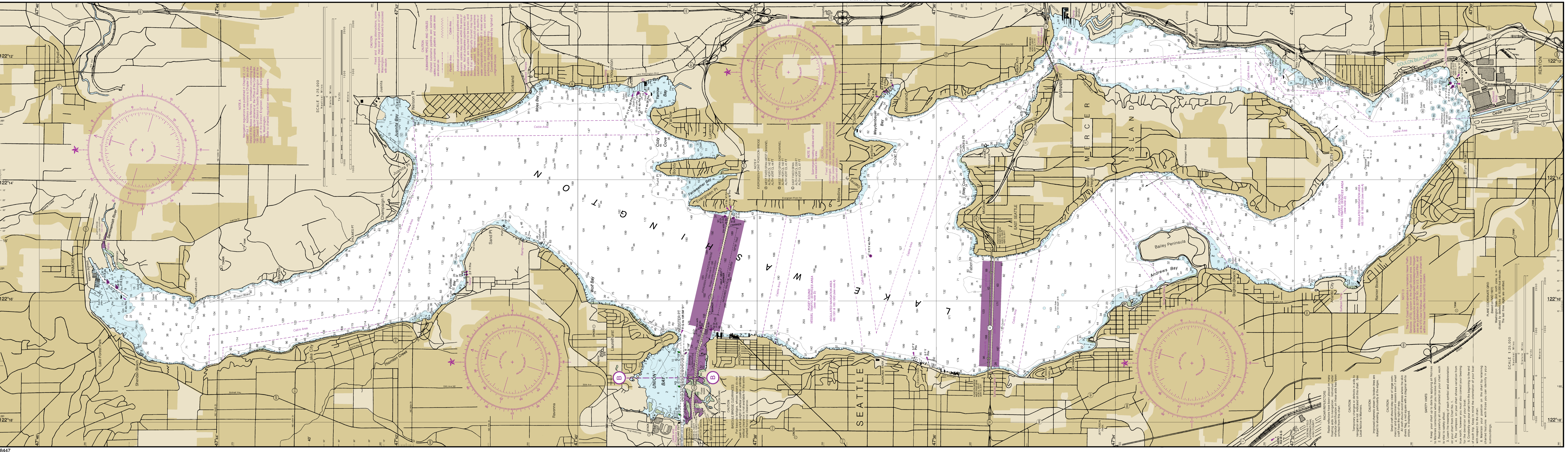
Table with columns: NAME, ADDRESS, CITY, STATE, ZIP, PHONE, FAX, INTERNET, and WEBSITE. Lists various NOAA offices and their contact information.

HEIGHTS
Vertical elevations above the mean low water of the tide unless otherwise indicated.

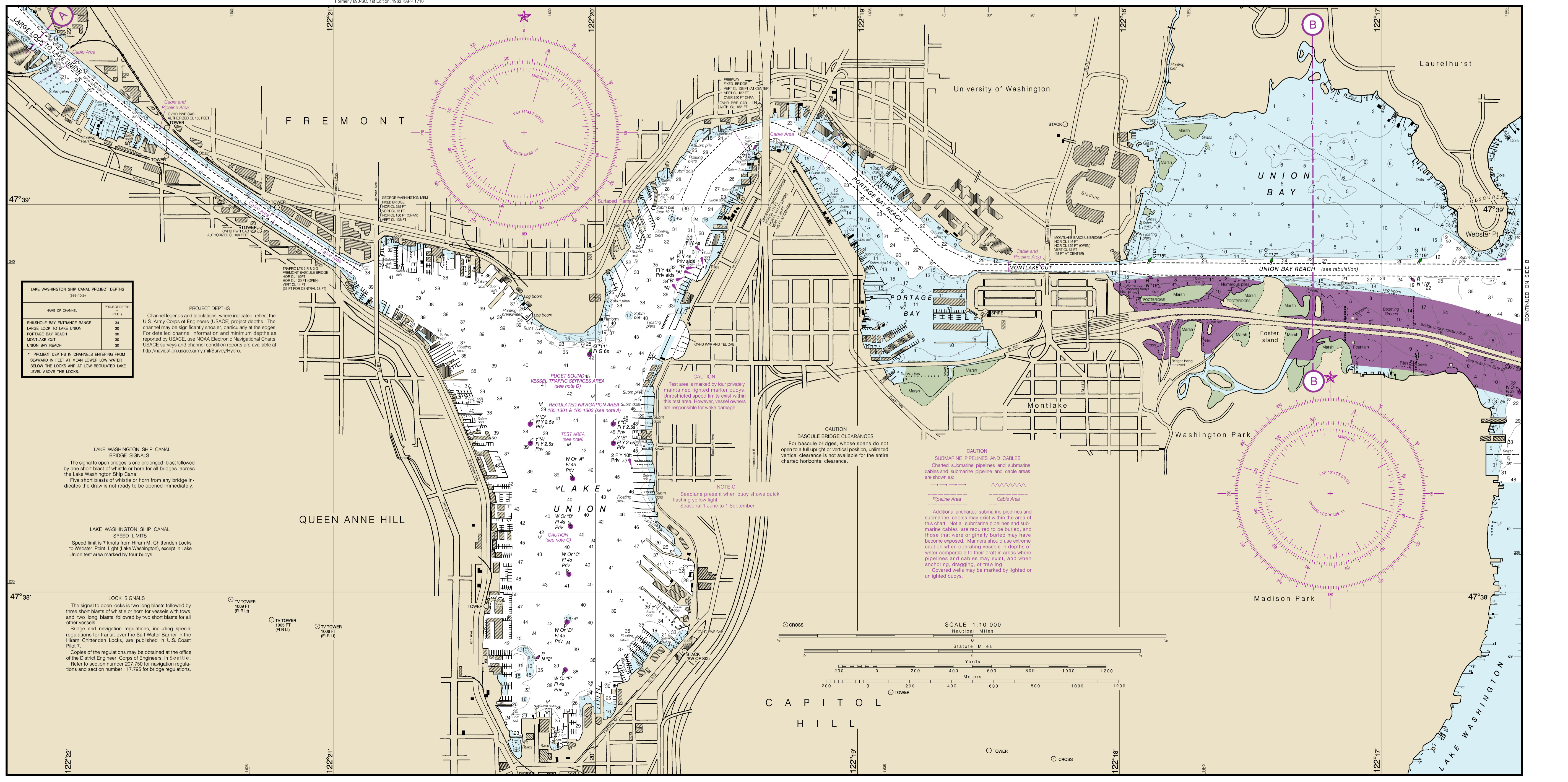
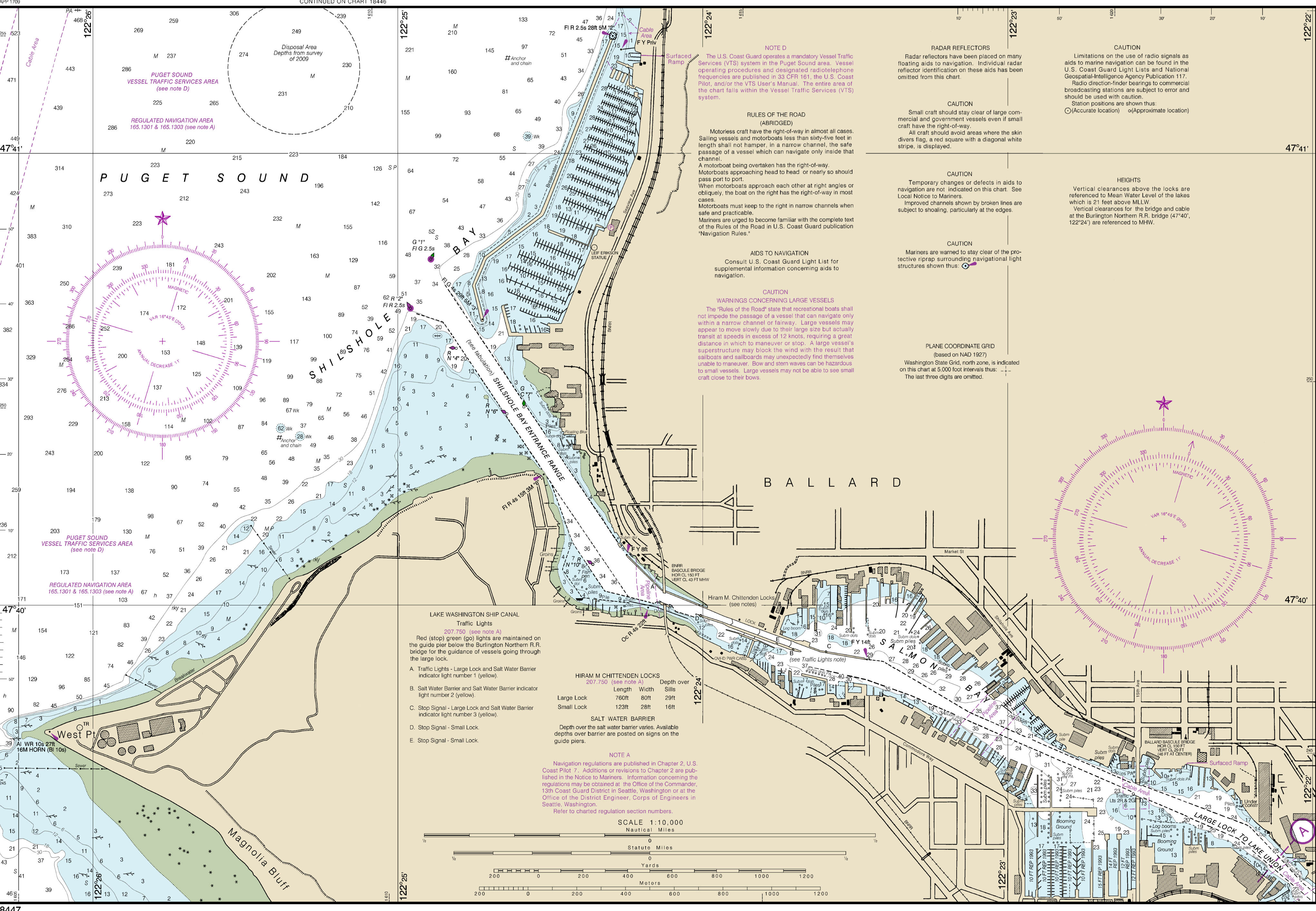
PROJECTIONS
This chart has been constructed from the North American Datum of 1983 (NAD 83) and is based on the Mercator projection. It is not intended for use in areas where the curvature of the Earth is significant.

SOUNDINGS
Soundings are in feet unless otherwise indicated. At mean low water unless shown otherwise and at low water of lunar spring tides unless shown otherwise.

ADDITIONAL INFORMATION
For information on the availability of this chart, contact the National Oceanic and Atmospheric Administration, National Ocean Service, 1315 East-West Highway, Silver Spring, MD 20910.



18447



APPROXIMATIONS (for comparison of distances and bearings, see Chart 1)

Chart	Scale	Approximation
1:10,000	1 inch = 1 mile	
1:25,000	1 inch = 2.5 miles	
1:50,000	1 inch = 5 miles	
1:100,000	1 inch = 10 miles	
1:200,000	1 inch = 20 miles	
1:500,000	1 inch = 50 miles	
1:1,000,000	1 inch = 100 miles	

DETERMINATION OF WIND SPEED FROM SEA CONDITION

Wave Height	Sea Condition	Sea State	Wind Speed (knots)	Wind Speed (miles per hour)
0.1	Calm	Sea smooth and mirror-like	0	0
0.2	Light Air	Small, glassy waves, crests have a glassy appearance and do not break	1-3	1-3
0.3	Breeze	Large waves, crests begin to break, base of waves appears breaking	4-6	4-6
0.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	7-10	7-10
0.75	Modest Breeze	Large waves, crests begin to break, base of waves appears breaking	11-16	11-16
1.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	17-21	17-21
1.25	Small Craft	Large waves, crests begin to break, base of waves appears breaking	22-27	22-27
1.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	28-33	28-33
2.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	34-40	34-40
2.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	41-47	41-47
3.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	48-54	48-54
3.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	55-61	55-61
4.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	62-68	62-68
4.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	69-75	69-75
5.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	76-82	76-82
5.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	83-89	83-89
6.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	90-96	90-96
6.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	97-103	97-103
7.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	104-110	104-110
7.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	111-117	111-117
8.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	118-124	118-124
8.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	125-131	125-131
9.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	132-138	132-138
9.5	Small Craft	Large waves, crests begin to break, base of waves appears breaking	139-145	139-145
10.0	Small Craft	Large waves, crests begin to break, base of waves appears breaking	146-152	146-152

POSITION REPORTS
Report all sightings of vessels to the National Oceanic and Atmospheric Administration, National Ocean Service, 1315 East-West Highway, Silver Spring, MD 20910.