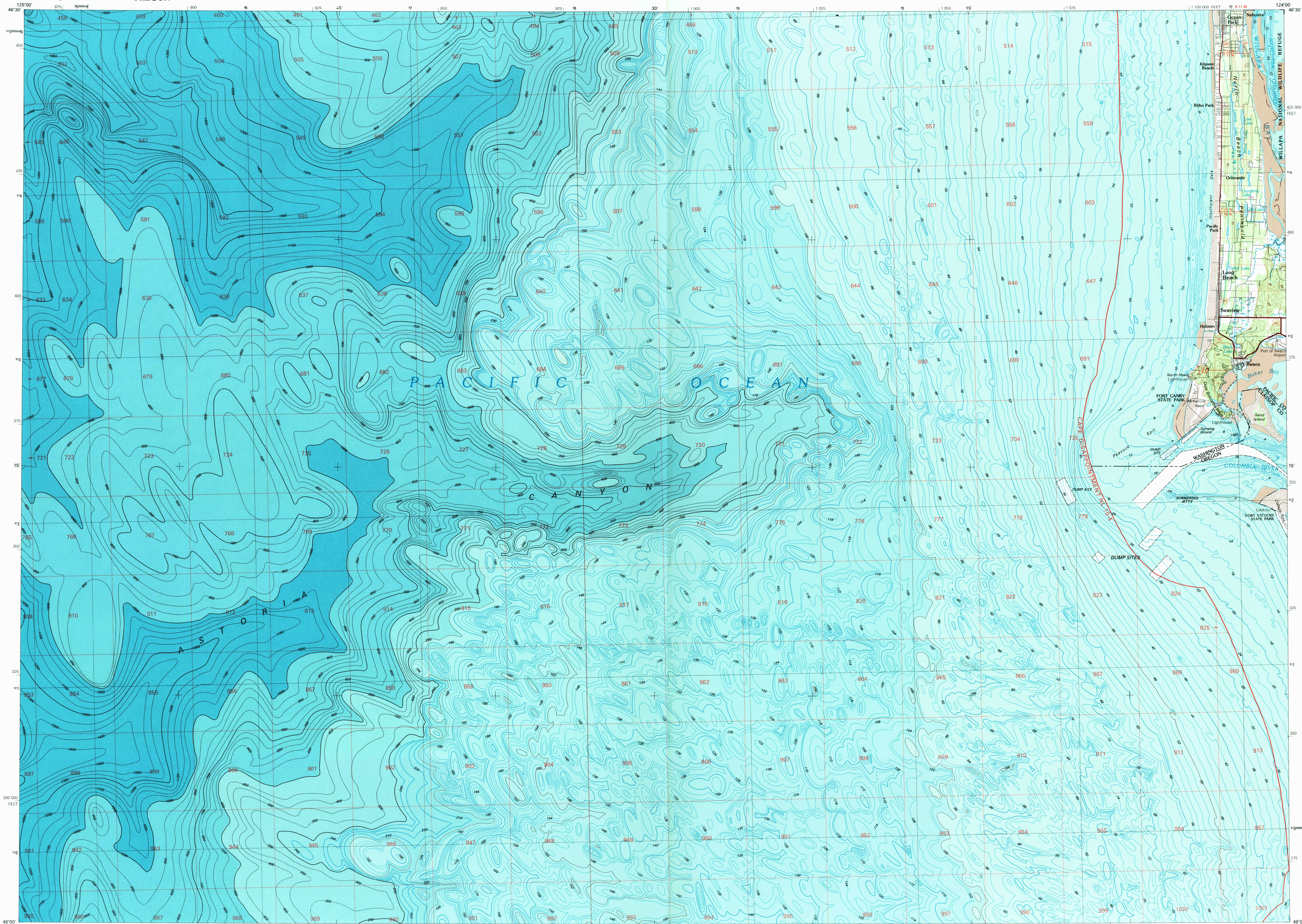


ILWACO, WASHINGTON—OREGON

30X60 MINUTE SERIES (TOPOGRAPHIC—BATHYMETRIC)



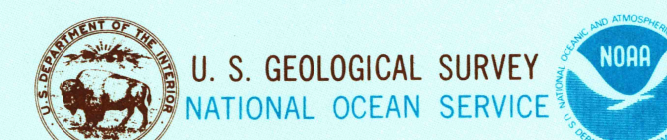
Ilwaco

WASHINGTON—OREGON

1:100 000-scale *metric*
topographic—bathymetric map



- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names
- Bathymetric contours in meters



1980

Produced by the United States Geological Survey and the National Ocean Service

Compiled from USGS 1:50 000-scale topographic maps dated 1951 and 1973

Planimetry revised from aerial photographs taken 1976 and other source data. Revised information not field checked. Map dated 1980

Bathymetry compiled by the National Ocean Service from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes

Mean lower low water (solid) line and mean high water (heavy solid) line compiled by NOS from tide-coordinated aerial photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line

Projection and 10 000-meter grid, zone 10, Universal Transverse Mercator

25 000-foot grid ticks based on Washington coordinate system, south zone 1927 North American Datum

To place on the grid of the North American Datum 1983 move the projection lines 25 meters north and 98 meters east

Oblique projection survey data, shown in red, furnished by the Minerals Management Service. Heavy lines indicate limits of Outer Continental Shelf

Official Protection Diagram dated November 2, 1976. The protection on this map are not for Federal leasing purposes; for such purposes, refer to OCS Official Protection Diagram available from the Minerals Management Service

Limited revision and bathymetry added 1989

There may be private subdivisions within the boundaries of National or State reservations shown on this map

CONTOUR INTERVAL 20 METERS

SUPPLEMENTARY CONTOUR INTERVAL 10 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1989

ELEVATIONS SHOWN TO THE NEAREST METER

WATER DEPTH CONTOUR INTERVALS IN METERS TO 300 METERS

DEPTHS WITH SUPPLEMENTARY 1 METER CONTOURS, TRENCH IN METERS TO MAXIMUM DEPTH, SHOWN BY SUPPLEMENTARY 1 METER CONTOURS

CONTOUR DATUM IS MEAN LOWER LOW WATER

THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BASE MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS

NATIONAL HYDROGRAPHIC SURVEY DATA COMPLETES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS AND/OR STANDARDS USED AS OF THE DATE OF THE SURVEY

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS			
Meters	Feet		1	2	3	
1	3.2808		4	5		
2	6.5617		6	7	8	
3	9.8425					
4	13.1234					
5	16.4043					
6	19.6852					
7	22.9660					
8	26.2469					
9	29.5278					
10	32.8084					

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048

FOR SALE BY U.S. GEOLOGICAL SURVEY
CENTER, COLORADO 80525, OR RESTON, VIRGINIA 22092
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

Primary highway, hard surface	—————
Secondary highway, hard surface	—————
Light duty road, principal street, hard or improved surface	—————
Other road or street, trail	—————
Route marker: interstate; U. S. State	—————
Railroad: standard gauge, narrow gauge	—————
Tunnel: road, railroad	—————
Built up area, locality, elevation	—————
Airport; landing field; landing strip	—————
National boundary	—————
State boundary	—————
County boundary	—————
National or State reservation boundary	—————
Land grant boundary	—————
U. S. public lands survey: range, township, section	—————
Range, township, section line: projected	—————
Power transmission line, pipeline	—————
Dam; dam with lock	—————
Cemetery; building	—————
Windmill; water well; spring	—————
Mine shaft; adit or cave; mine; quarry; gravel pit	—————
Campground; picnic area; U. S. location monument	—————
Ruin; cliff dwelling	—————
Distorted surface: strip mine, lava, sand	—————
Contours: index; intermediate; supplementary	—————
Bathymetric contours: index; intermediate	—————
Stream, lake; perennial; intermittent	—————
Rapids, large and small; falls, large and small	—————
Area to be submerged; marsh, swamp	—————
Land subject to controlled inundation; woodland	—————
Scale, mangrove	—————
Orchard; vineyard	—————

A pamphlet describing topographic maps is available on request

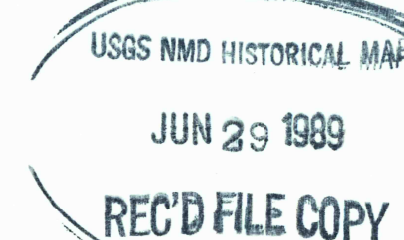
ILWACO, WASHINGTON—OREGON

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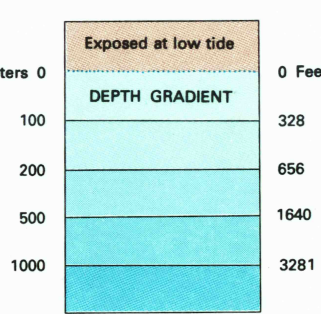
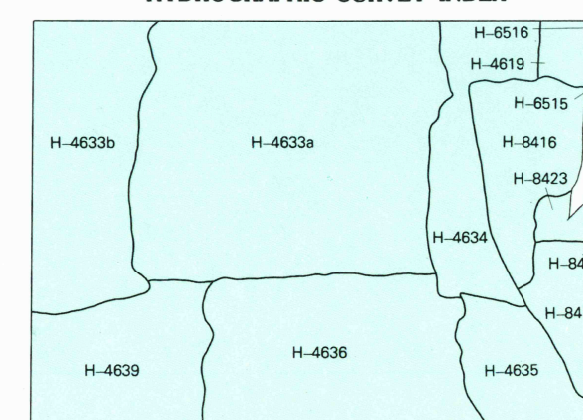
1980
BATHYMETRY ADDED 1989

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4819	1926	1:20,000	02-23
H-4820	1926	1:20,000	02-23
H-4821	1926	1:20,000	02-23
H-4822	1926	1:20,000	02-23
H-4823	1926	1:20,000	02-23
H-4824	1926	1:20,000	02-23
H-4825	1926	1:20,000	02-23
H-4826	1926	1:20,000	02-23
H-4827	1926	1:20,000	02-23
H-4828	1926	1:20,000	02-23
H-4829	1926	1:20,000	02-23
H-4830	1926	1:20,000	02-23
H-4831	1926	1:20,000	02-23
H-4832	1926	1:20,000	02-23



HYDROGRAPHIC SURVEY INDEX



Photographic copies of the above and prior surveys may be obtained at the cost of reproduction, by addressing the Director, NCEC242, National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852