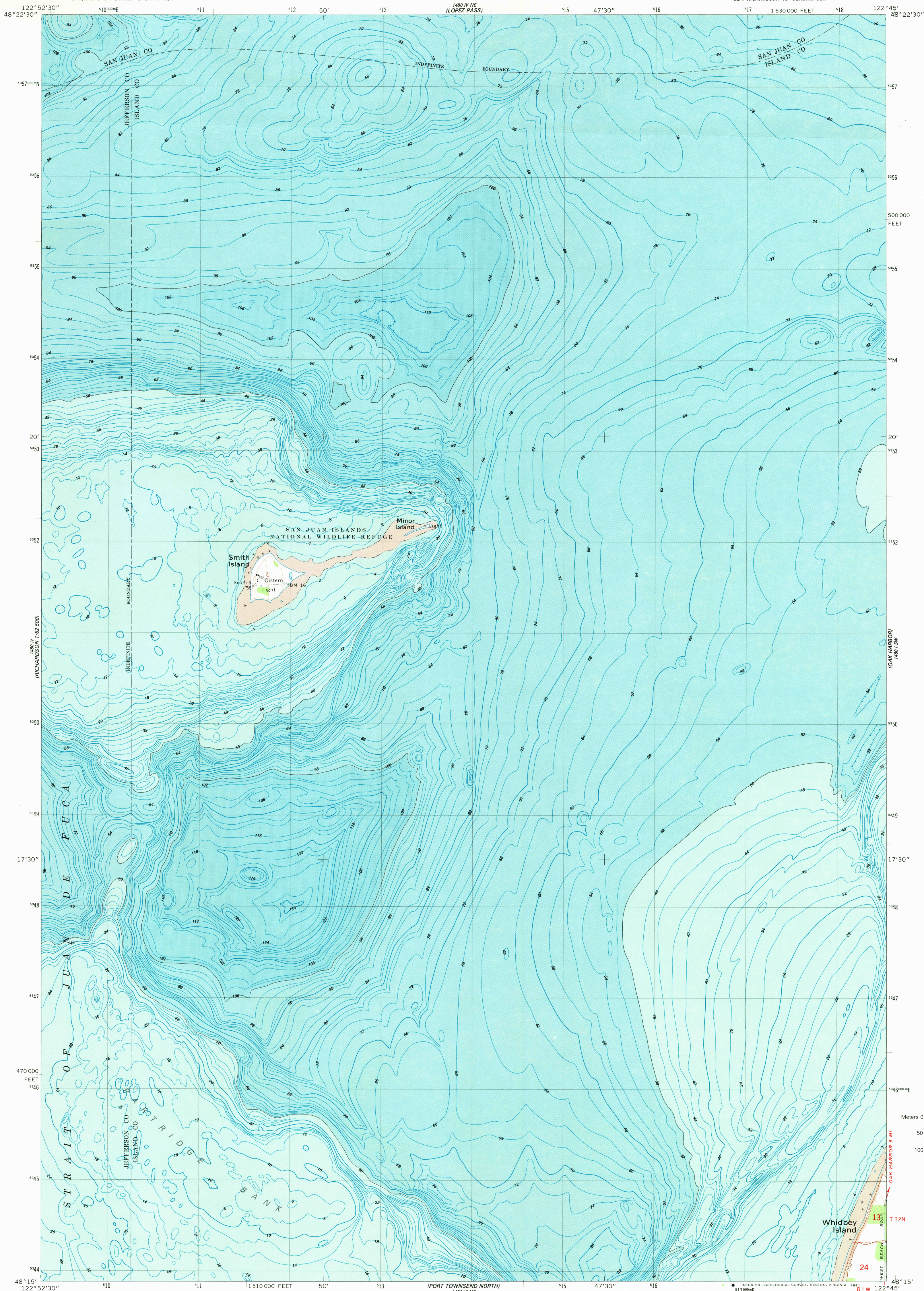


1480 IV NE  
(LOPEZ PASS)  
1480 IV SE  
(DECEPTION PASS)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SMITH ISLAND QUADRANGLE  
WASHINGTON  
7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)  
SE/4 RICHARDSON 15' QUADRANGLE

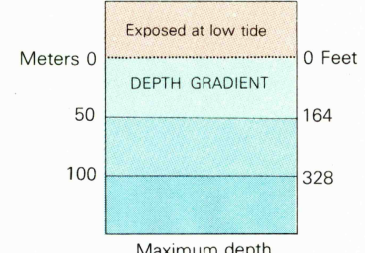


CONVERSION  
SCALES

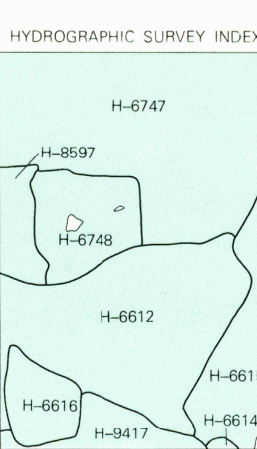


| Feet | Meters |
|------|--------|
| 1    | 3048   |
| 2    | 6096   |
| 3    | 9144   |
| 4    | 12192  |
| 5    | 15240  |
| 6    | 18288  |
| 7    | 21336  |
| 8    | 24384  |
| 9    | 27432  |
| 10   | 30480  |

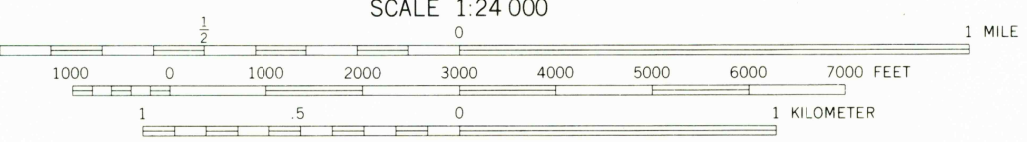
To convert feet to meters  
multiply by 3048  
To convert meters to feet  
multiply by 3.2808



Mapped, edited, and published by the Geological Survey  
and the National Ocean Survey  
Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial photographs  
taken 1972. Field checked 1973. Map edited 1978  
Bathymetry compiled by the National Ocean Survey from  
tide-coordinated hydrographic surveys. This information  
is not intended for navigational purposes  
Mean lower low water (dotted) line and mean high water (solid) line  
compiled by NOS from tide-coordinated aerial photographs  
Projection and 10,000-foot grid ticks: Washington coordinate  
system, north zone (Lambert conformal conic)  
1000-meter Universal Transverse Mercator grid, zone 10  
1927 North American Datum  
To place on the predicted North American Datum 1983  
move the projection lines 23 meters north and  
95 meters east as shown by dashed corner ticks  
Where omitted, land lines have not been established  
Fine red dashed lines indicate selected fence lines  
There may be private inholdings within the boundaries of  
the National or State reservations shown on this map



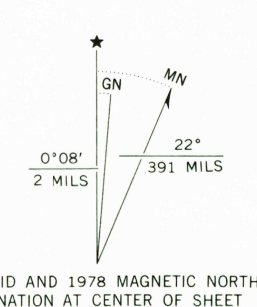
| Survey Number | Survey Date | Survey Scale | Survey Line Spacing (Naut. Miles) |
|---------------|-------------|--------------|-----------------------------------|
| H-6612        | 1941        | 1:20,000     | 25-50                             |
| H-6614        | 1941        | 1:10,000     | 03-08                             |
| H-6615        | 1940-41     | 1:10,000     | 01-08                             |
| H-6746        | 1941        | 1:10,000     | 25-50                             |
| H-6747        | 1941        | 1:20,000     | 04-23                             |
| H-6748        | 1941        | 1:10,000     | 03-08                             |
| H-6597        | 1961        | 1:20,000     | 06-09                             |
| H-8417        | 1974        | 1:10,000     | 05-11                             |



CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
BATHYMETRIC CONTOUR INTERVAL 2 METERS  
DATUM IS MEAN LOWER LOW WATER  
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 1.4 METERS



ROAD CLASSIFICATION  
Primary highway, hard surface  
Secondary highway, hard surface  
Light-duty road, hard or improved surface  
Unimproved road  
Interstate Route  
U.S. Route  
State Route



SMITH ISLAND, WASH.  
SE/4 RICHARDSON 15' QUADRANGLE  
N4815-W12245/7.5

1978  
BATHYMETRY ADDED 1980  
DMA 1480 IV SE-SERIES V891

USGS  
HISTORICAL FILE  
NATIONAL MAPPING DIVISION

AUG 13 1981  
2900