

March 14, 1983

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): 945-5427, Perl Island, AK

Period: July 24 - August 5, 1982

HYDROGRAPHIC SHEET: H-10033

OPR: P114

Locality: Chugach Islands, Southern Cook Inlet

Plane of reference (mean lower low water): 13.27 feet

Height of Mean High Water above Plane of Reference is 12.5 feet

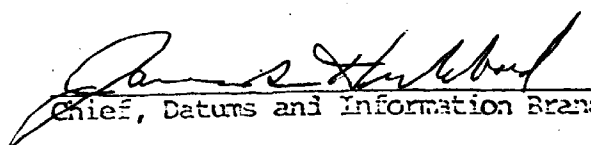
REMARKS: Recommended Zoning

1. Northwest of a line formed by two points located at:

Latitude $59^{\circ}10.0'N$ and $59^{\circ}07.3'N$ ✓
Longitude $151^{\circ}35.0'W$ and $151^{\circ}40.0'W$

Zone direct on 945-5427 Perl Island, AK

2. Southeast of the previous line, zone on 945-5427 Perl Island, AK, and apply X0.95 range ratio.


Chief, Datums and Information Branch

FIELD TIDE NOTE

Field tide correctors for H-10033 were based on predicted tides for Seldovia, Alaska. The predicted tides were interpolated using program AM500. Zoning correctors were received from C3, Rockville, Maryland.

The gage was located on Perl Island, Alaska at $59^{\circ}07'48''\text{N}$, $151^{\circ}41'48''\text{W}$ and was installed on July 11, 1982. The gage was removed July 30, 1982. The staff value of 0 on the tide record is -12.6 ft. and time meridian for records annotation is 0000 (UCT).

DATE: 1/2/85

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TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Pacific

OPR: P114

Hydrographic Sheet: H-10033

Locality: Chugach Island, Cook Inlet, Alaska

Time Period: July 19 - August 8, 1984


Tide Station Used: 945-5427 Perl Island, Alaska

Plane of Reference (Mean Lower Low Water): 20.28 ft.

Height of Mean High Water Above Plane of Reference: 12.8 ft.

Remarks: Recommended Zoning:

1. Southeast of a line formed by 2 points located at $58^{\circ}57.0'$ and $59^{\circ}07.5'$
 $151^{\circ}35.0'$ $151^{\circ}23.0'$
Apply x0.89 range ratio to all heights.
2. Northwest of the previous line to a line formed by 2 points located at
 $59^{\circ}04.5'$ and $59^{\circ}13.0'$
 $151^{\circ}43.0'$ $151^{\circ}29.0'$
Apply x0.94 range ratio to all heights.
3. Northwest of the previous line, zone direct.


Chief, Tidal Datums Section

FIELD TIDE NOTE
RA-20-4N-82
H-10033

Field tide reduction of soundings for survey H-10033 was based on predicted tides from Seldovia, Alaska (945-5500). Corrections were obtained from Preliminary Tidal Zoning OPR-P114-RA-82. The predicted tides were derived using program AM500.

The reference station at Seldovia was leveled on June 21, 1984. Five permanent benchmarks (including the primary mark) were connected to the ETG reading mark. Levels were run at the end of survey operations on August 24, 1984. Initial and final levels compared very well.

A subordinate station at Perl Island, Alaska (945-5427) provided data for this survey. A standard Bristol Bubbler tide gage was installed on a prominent rock cliff on the north side of Perl Island on July 18, 1984, (59/07/48N, 151/41/48W). Five permanent benchmarks were recovered near the site. A staff was installed and initial levels were run to these marks on July 18, 1984.

Excellent records were obtained and the gage will be removed following the final levels planned for September 1, 1984. The staff fell during a storm August 20 and was not replaced. One day of records was lost from 1400 hr 22 August to 1330 hr 23 August due to a malfunction of the pen.