

ORIGINAL



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Office of Ocean and Earth Sciences  
Rockville, Maryland 20852

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE:** March 15, 1993

**MARINE CENTER:** Pacific

**OPR:** P319-RA

**HYDROGRAPHIC SHEET:** H-10432

**LOCALITY:** Fire Island Shoal To Woronzof Shoal, Cook Inlet, Alaska

**TIME PERIOD:** June 10 - July 31, 1992

**TIDE STATION USED:** 945-5912 Fire Island, Alaska  
Lat.  $61^{\circ} 10.4'N$  Lon.  $150^{\circ} 12.3'W$   
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 2.32 ft.  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 26.0 ft.

**TIDE STATION USED:** 945-5920 Anchorage, Alaska  
Lat.  $61^{\circ} 14.3'N$  Lon.  $149^{\circ} 53.3'W$   
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 6.41 ft.  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 28.3 ft.

**REMARKS: RECOMMENDED ZONING**

- A. Use the following corrections applied to Fire Island (945-5912), when data are available:**
1. In Cook Inlet, north of  $61^{\circ} 10.0'N$ , south of  $61^{\circ} 15.6'N$ , east of  $150^{\circ} 1.4'W$  and west of  $149^{\circ} 59.0'W$ , apply a +20 minute time correction and a x1.05 range ratio.
  2. In Cook Inlet, north of  $61^{\circ} 10.0'N$ , south of  $61^{\circ} 15.6'N$ , east of  $150^{\circ} 5.0'W$  and west of  $150^{\circ} 1.4'W$ , apply a +15 minute time correction and a x1.03 range ratio.
  3. In Cook Inlet, north of  $61^{\circ} 7.0'N$ , south of  $61^{\circ} 15.6'N$ , east of  $150^{\circ} 15.0'W$  and west of  $150^{\circ} 5.0'W$ , times and heights are direct.



4. In Cook Inlet, north of  $61^{\circ} 7.0'N$ , east of  $150^{\circ} 20.0'W$  and west of  $150^{\circ} 15.0'W$ , apply a -5 minute time correction and a  $x0.99$  range ratio.
  5. In Cook Inlet, north of  $61^{\circ} 7.0'N$ , east of  $150^{\circ} 25.0'W$  and west of  $150^{\circ} 20.0'W$ , apply a -10 minute time correction and a  $x0.97$  range ratio.
  6. In Cook Inlet, east of  $150^{\circ} 30.0'W$  and west of  $150^{\circ} 25.0'W$ , apply a -15 minute time correction and a  $x0.95$  range ratio.
- B. When data for Fire Island are not available, use the following corrections applied to Anchorage (945-5920):**
1. In Cook Inlet, north of  $61^{\circ} 10.0'N$ , south of  $61^{\circ} 15.6'N$ , east of  $150^{\circ} 1.4'W$  and west of  $149^{\circ} 59.0'W$ , apply a -5 minute time correction and a  $x0.96$  range ratio.
  2. In Cook Inlet, north of  $61^{\circ} 10.0'N$ , south of  $61^{\circ} 15.6'N$ , east of  $150^{\circ} 5.0'W$  and west of  $150^{\circ} 1.4'W$ , apply a -10 minute time correction and a  $x0.94$  range ratio.
  3. In Cook Inlet, north of  $61^{\circ} 7.0'N$ , south of  $61^{\circ} 15.6'N$ , east of  $150^{\circ} 15.0'W$  and west of  $150^{\circ} 5.0'W$ , apply a -20 minute time correction and a  $x0.92$  range ratio.
  4. In Cook Inlet, north of  $61^{\circ} 7.0'N$ , east of  $150^{\circ} 20.0'W$  and west of  $150^{\circ} 15.0'W$ , apply a -30 minute time correction and a  $x0.90$  range ratio.
  5. In Cook Inlet, north of  $61^{\circ} 7.0'N$ , east of  $150^{\circ} 25.0'W$  and west of  $150^{\circ} 20.0'W$ , apply a -35 minute time correction and a  $x0.88$  range ratio.
  6. In Cook Inlet, east of  $150^{\circ} 30.0'W$  and west of  $150^{\circ} 25.0'W$ , apply a -40 minute time correction and a  $x0.87$  range ratio.

**Notes:**

Hourly heights for Fire Island (945-5912) are tabulated in Greenwich Mean Time.

Hourly heights for Anchorage (945-5920) are tabulated in Alaskan Standard Time.

*for Brian S. Lundy*  
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CHIEF, DATUMS SECTION