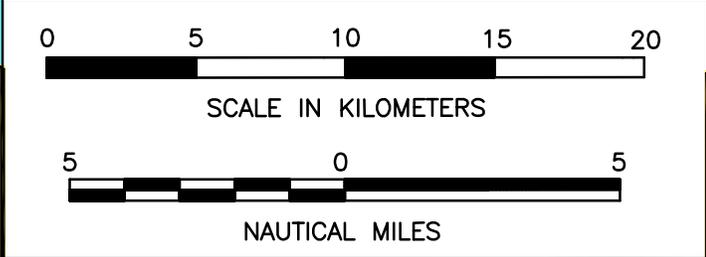
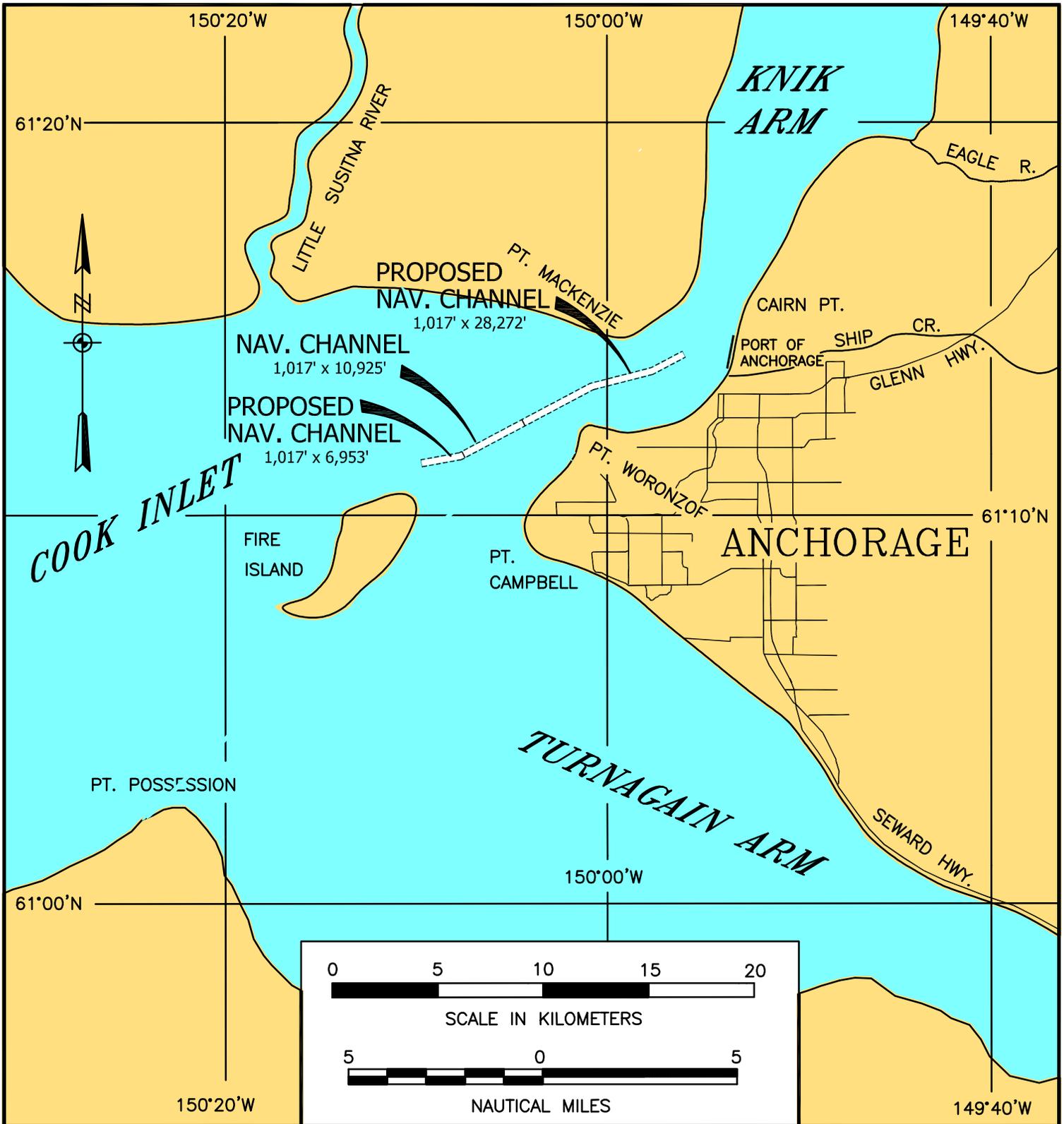


**COOK INLET
NAVIGATION
CHANNEL**



NOTES

1. THIS LOCALITY IS SHOWN ON NOAA CHART NOS. 16660, 16663, AND 16665.
2. PROJECT DEPTH IS AUTHORIZED AT -45 FEET IN REFERENCE TO MEAN LOWER LOW WATER (MLLW).

COOK INLET
NAVIGATION CHANNEL
2011

COOK INLET NAVIGATION CHANNEL, ALASKA
(CWIS NO. 10324, 10534)

Condition of Improvement 30 September 2011

AUTHORIZATION: (1) Water Resources Development Act of 1996 (Public Law 104-303, 104th Congress) authorizes the expenditure of \$5,700,000 subject to the report of the Chief of Engineers. (2) The Energy and Water Development Appropriations Act, 1999 (Public Law 105-245, Oct. 7 1998) increases the project total not to exceed \$12,600,000; one third of this total is to be cost shared with the local sponsor. (3) Energy and Water Appropriations Act, 2005, states that "The Secretary shall modify the channel in the existing Cook Inlet Navigation Channel approach to Anchorage Harbor, Alaska, to run the entire length of Fire Island Range and Point Woronzof Range and shall modify the depth of that channel to minus 45 Feet mean lower low water. The channel shall be maintained at a depth of minus 45 feet mean lower low water."

EXISTING PROJECT:	<u>LENGTH</u>	<u>WIDTH</u>	<u>DEPTH</u>
• Original Channel	10,925 ft	1,017 ft	-38 feet
• Proposed Channel Modification (full approach)	46,150 ft	1,017 ft	-45 feet

PROJECT USAGE: The channel provides additional time for the passage of deep draft vessels to and from the Port of Anchorage.

PROGRESS OF WORK:

- 1996 - The construction site and disposal area are surveyed. Pre-construction engineering and design work are initiated.
- 1997 - Ship tracking studies over the winter of 96-97 confirm the project dimensions. Plans and specifications are begun.
- 1998 - A Project Cooperation Agreement is signed with the Municipality of Anchorage in January. The construction contract is awarded in December.
- 1999 - Dredging operations remove 576,934 yards from the project.
- 2000 - The project is physically completed in September with the removal of an additional 882,609 cubic yards of material.
- 2001 - Three condition surveys are conducted at the beginning of June, August, and November.
- 2002 - The project is surveyed in May, July, and September.
- 2003 - Condition surveys are conducted in May, July and early October.
- 2004 - Condition surveys are completed in June and October with multi-beam equipment.
- 2005 - Survey coverage is increased along the Woronzof and Fire Island range lines in accordance with new authorization and the concern of shippers. 9,950 linear meters were surveyed at a width of 920 meters in May and September with full coverage multi-beam surveys.
- 2006 - One full coverage multi-beam survey was conducted in August covering 7 and ¼ miles of channel, an extension of about 1 mile from last year to cover the concerns of shippers.
- 2007 - A new best-fit channel alignment was created covering 8 ¾ miles along the Woronzof and Fire Island range lines. A multi-beam survey of the entire project was conducted in August.
- 2008 - A multi-beam condition survey was conducted in August.
- 2010 - A multi-beam condition survey was conducted by Terrasond in July. Until a cost shared decision document can be funded and prepared for the entire authorized project area, the maintenance dredging authority currently remains limited to stations 69+52 thru 178+77 (based on the proposed project limit stationing found in the July survey).

Continues on page 1-5a

COOK INLET NAVIGATION CHANNEL, ALASKA (continued)

30 September 2011

COST TO DATE:

GI PED Appropriation	\$307,252
GI PED Costs	\$307,252
CG Appropriation	\$8,409,492
CG Costs	\$8,409,492
CG Contributed Appropriation	\$2,498,971
CG Contributed Costs	\$2,498,971
O&M Appropriation	\$594,079
O&M Costs	\$590,288

RANGE OF TIDE:	<u>Mean Range</u>	<u>Diurnal Range</u>	<u>Extreme Range</u>
Fire Island	24.0'	26.9'	38.9'
Anchorage	26.2'	29.2'	41.0'

CONTROLLING DEPTH: A depth of -30 feet MLLW controls along the northern boundary between stations 111+00 and 128+00, July 2010.

Note: This project is subject to the strong tidal influence found in the upper Cook Inlet. Variation in available depth may occur over time. The information above is not provided for navigation purposes.

Cook Inlet Navigation Channel near Anchorage, Alaska



Northern Lights over Cook Inlet Navigation Channel near Anchorage taken in 2009.