<table>
<thead>
<tr>
<th>LOCALITY</th>
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<tbody>
<tr>
<td>State</td>
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<td>Cook Inlet</td>
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<tr>
<td>General Locality</td>
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<td>Locality</td>
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1966 TO 1976

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAMMETRIC OFFICE**
Coastal Mapping Division
Atlantic Marine Center, Norfolk, VA

**OFFICER-IN-CHARGE**
Jeffrey G. Carlen

---

<table>
<thead>
<tr>
<th>TYPE OF SURVEY</th>
<th>SURVEY NO. T-12045(2)</th>
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<tr>
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<td>RESURVEY</td>
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**MAP EDITION NO.** (2)

**MAP CLASS** Final Map

**LAST PRECEDING MAP EDITION**

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**SURVEY DATES:**

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<td>Field</td>
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**II. DATUMS**

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<tr>
<td>2. VERTICAL:</td>
<td>MEAN HIGH-WATER</td>
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<tr>
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<td>MEAN LOW-WATER</td>
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<td></td>
<td>MEAN LOWER LOW-WATER</td>
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<td></td>
<td>MEAN SEA LEVEL</td>
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**3. MAP PROJECTION**

Polyconic

**4. GRID(S)**

STATE: Alaska

ZONE: 4

---

**III. HISTORY OF OFFICE OPERATIONS**

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<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>1. AEROTRIANGULATION</td>
<td>M. McGinley</td>
<td>9/74</td>
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<tr>
<td>METHOD: Analytic LANDMARKS AND AIDS BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>R. Robertson</td>
<td>9/74</td>
</tr>
<tr>
<td>METHOD: Calcomp PLOTTED BY</td>
<td></td>
<td></td>
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<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPOSITION</td>
<td>R. R. White</td>
<td>12/74</td>
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<tr>
<td>INSTRUMENT: Wild B-8 PLANIMETRY BY</td>
<td></td>
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<tr>
<td>SCALE: 1:20,000</td>
<td>L. O. Neterer, Jr.</td>
<td>12/74</td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>Charles Parker</td>
<td>1/75</td>
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<tr>
<td>METHOD: Smoothdrafted</td>
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<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>Charles E. Blood</td>
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<td>METHOD: Smoothdrafted</td>
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<td>7. COMPILATION SECTION REVIEW</td>
<td>Charles Parker</td>
<td>1/75</td>
</tr>
<tr>
<td>METHOD: Smoothdrafted</td>
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<td></td>
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<tr>
<td>8. FINAL REVIEW</td>
<td>Charles Blood</td>
<td>2/75</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>David Butler</td>
<td>12/76</td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>Jim Byrd</td>
<td>1/77</td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>E. A. Dauchy</td>
<td>Dec 82</td>
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# Compilation Sources

1. **Compilation Photography**

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<th>Tides Stage Reference</th>
<th>Types of Photography Legend</th>
<th>Time Reference</th>
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<tbody>
<tr>
<td>Wild RC-8 &quot;L&quot; and &quot;E&quot;</td>
<td>Predicted Tides</td>
<td>(C) Color</td>
<td>Zone Alaska</td>
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<tr>
<td></td>
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<td>(P) Panchromatic</td>
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<tr>
<td></td>
<td></td>
<td>(I) Infrared</td>
<td>Standard Daylight</td>
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<table>
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<th>Time</th>
<th>Scale</th>
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<td>66L6704 - 66L6705</td>
<td>8/14/66</td>
<td>09:20</td>
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<td>6/23/67</td>
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<td>1:40,000</td>
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<td>67L(I)3490 - 67L(I)3491</td>
<td>6/22/67</td>
<td>13:55</td>
<td>1:20,000</td>
<td>12.1 ft. above MLLW</td>
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<tr>
<td>67L(I)3505 - 67L(I)3509</td>
<td>6/22/67</td>
<td>14:15</td>
<td>1:20,000</td>
<td>13.9 ft. above MLLW</td>
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<tr>
<td>72E(C)4907 - 72E(C)4915</td>
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<td>09:15</td>
<td>1:20,000</td>
<td>14.4 ft. above MLLW</td>
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**Remarks**
- *Bridge and compilation photos
- **Hydro support photos

2. **Source of Mean High-Water Line:**

The mean high water line was compiled from the above listed photographs.

3. **Source of Mean Lower Low-Water Line:**

*The mean lower low water line was compiled from the above listed photographs.

4. **Contemporary Hydrographic Surveys** (List only those surveys that are sources for photogrammetric survey information.)

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<thead>
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<th>Date(s)</th>
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5. **Final Junctions**

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<th>South</th>
<th>West</th>
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<tbody>
<tr>
<td>None</td>
<td>T-12046(2)</td>
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</table>

**Remarks**
## HISTORY OF FIELD OPERATIONS

### I. FIELD INSPECTION OPERATION

<table>
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<th>Date</th>
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<tbody>
<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>A. Wardwell</td>
<td>4/61 - 7/61</td>
</tr>
<tr>
<td>HORIZONTAL CONTROL</td>
<td>None</td>
<td>4/61 - 7/61</td>
</tr>
<tr>
<td>VERTICAL CONTROL</td>
<td>None</td>
<td>NA</td>
</tr>
<tr>
<td>LANDMARKS AND AIDS TO NAVIGATION</td>
<td>None</td>
<td>NA</td>
</tr>
<tr>
<td>GEOFOROGRAPHIC NAMES INVESTIGATION</td>
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<tr>
<td>PHOTO INSPECTION</td>
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### II. SOURCE DATA

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### 3. PHOTO NUMBERS (Clarification of details)

None

### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

### 5. GEOGRAPHIC NAMES: Report: None

### 6. BOUNDARY AND LIMITS Report: None

### 7. SUPPLEMENTAL MAPS AND PLANS

None

### 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None
### HISTORY OF FIELD OPERATIONS

**Operational Data**

- **Field Identification:**
  - Recovered by: R. B. Melby
  - Established by: R. B. Melby
  - Pre-marked or identified by: NA

- **Horizontal Control**
  - Recovered by: R. B. Melby
  - Located (Field Methods) by: None

- **Vertical Control**
  - Recovered by: R. B. Melby
  - Identified by: None

- **Landmarks and Aids to Navigation**
  - Recovered (Triangulation Stations) by: R. B. Melby
  - Located (Field Methods) by: None

### SOURCE DATA

#### 1. Horizontal Control Identified

- **Photo Number:**
  - 6616542
  - 6713661

- **Station Name:**
  - EAST FORELAND LIGHT, 1960
  - T.B.M. NIKISKI, 4, 1964

- **Note:** Later destroyed. New 1973 position submitted.

#### 2. Vertical Control Identified

- **Station Identification:** NA

#### 3. Photo Numbers (Clarification of details)

- None

#### 4. Landmarks and Aids to Navigation Identified

- None

#### 5. Geographic Names:

- **Report:** X
  - None

#### 6. Boundary and Limits:

- **Report:** X
  - None

#### 7. Supplemental Maps and Plans

- None

#### 8. Other Field Records (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

- 3 Forms 152
**HISTORY OF FIELD OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
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<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>CAPT R. E. Alderman, NOAA</td>
<td>8/76</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>LTJG G. P. Kosinski, NOAA</td>
<td>8/76</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
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<td></td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>LTJG G. P. Kosinski, NOAA</td>
<td>8/76</td>
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<table>
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<td>6. PHOTO INSPECTION</td>
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**SOURCE DATA**

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3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

See Forms 76-40

5. GEOGRAPHIC NAMES: [ ] REPORT [ ] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [ ] NONE

**SUPPLEMENTAL MAPS AND PLANS**

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

   - Raw Field Edit Data, OPR-469-FA-76, Vol. 1
   - Field Edit Reports, OPR-469-FA-76
   - Field Edit Cylindrical, Map T-12045, Master copy
   - Field Edit Fix Computations for Map T-12045
   - Field Edit Report, Map T-12045
## I. MANUSCRIPT COPIES

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<thead>
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<th>DATE</th>
<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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<td>3/24/75</td>
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<td>Class I Manuscript</td>
<td>2/11/77</td>
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<td>3/86</td>
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## II. LANDMARKS AND AIDS TO NAVIGATION

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<table>
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<tr>
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<td></td>
<td>2/6/78</td>
<td>5 Aids for charts</td>
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<tr>
<td>1</td>
<td></td>
<td>2/6/78</td>
<td>8 Landmark for charts</td>
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<td>1</td>
<td></td>
<td>2/6/78</td>
<td>1 Revision</td>
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2. **REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: February 6, 1978**

3. **REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:**

## III. FEDERAL RECORDS CENTER DATA

1. **BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.**
2. **CONTROL STATION IDENTIFICATION CARDS; FORM NOS NOT SUBMITTED BY FIELD PARTIES.**
3. **SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:**

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

<table>
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<tr>
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</table>
FIELD INSPECTION
T-12045(2)

There was no field inspection prior to the revision of this compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12045(2)

This 1:20,000 scale Final shoreline map is one of 44 maps
designated as project PH-6013 Cook Inlet, Kalgin Island to Anchorage,
Alaska. T-12045(2) is a post earthquake map, second edition of T-12045.

The purpose of this map was to provide contemporary shoreline in
support of hydrographic operations and to aid in chart revision.

Field work prior to compilation in the 1961 field season consisted
of recovery of horizontal control and limited field inspection. Field
work in 1966 consisted of premarking of horizontal control for
aerotriangulation.

This area was flown in August 1966 and June 1967 with the RC-8 "L"
camera using panchromatic film at 1:40,000 scale and in June 1967 using
infrared film at 1:20,000 scale. The area was reflown in July 1972 with
the RC-8 "E" camera using color film at 1:20,000 scale. The 1:40,000
scale photographs were used for bridging and compilation. The 1:20,000
scale photographs were used for hydrographic support.

Aerotriangulation was performed in the Washington office in
September 1974.

T-12045(2) was compiled at the Norfolk office in February 1975.

Field edit was performed for T-12045(2) during the 1976 field
season. Field edit data was applied at AMC in January 1977.

Final review was performed at the Atlantic Marine Center March
1986. A Chart Maintenance Print was prepared and forwarded to the
Marine Charts Branch.

This Descriptive Report contains all pertinent information used to
compile this Final Map. The original base manuscript and all related
data were forwarded to the Washington Science Center for final
registration.
FIELD INSPECTION REPORT

COOK INLET, ALASKA

PROJECT SP-1-61 1961

USC&GS Ship PATHFINDER Arthur L. Wardwell, CAPT., Comdg.

MANUSCRIPTS:
12049, 12046, 12045, 12040, 12031, 12032, 12026, 12027, 12028,
12020, 12021, 12022, 12017, 12015, 12016, 12014, 12013, 12008, 12007,
12006, 12003, 12004, 12005, 12002, 12001, 12000, 12012, 11999, 12011,
11998, 12010, 12009, 12019, 12018, 12023, 12025, 12024, 12029, 12030, 12035,
12034, 12033, 12037, 12036

AERIAL FIELD INSPECTION:
Areas inspected were as follows: Manuscripts No. 12049, 12046,
12045, 12040, Kenai to Boulder Point, all shoreline and alongshore features.
Balance of above listed manuscripts were used only for horizontal
control identification.

The area is primarily moderately timbered with spruce, fir, alder and
bear claw above the mean high water line. Shoreline varies from fine
black silt at the mouth of the Kenai River mouth to large fragmented
boulders at Boulder Point. Most of the beachline is sand and shingle inter-
spersed with boulders of varying sizes. Numerous underground springs and
some small creeks discharge small quantities of silt and water and are sub-
ject to constant change.

The area was inspected by cruising alongshore by launch and by walking
the beach and bluff line. Foul areas now indicated on Chart No. 8553 are
adequate. Two primary foul areas were noted as follows:
Kenai River North
East Foreland to Moose Point

Quality of photographs was excellent. Areas of shadow were limited
to the shoreline east of East Foreland and upper Knik Arm. No attempt was
made to sketch in the mean high water line. Enough open areas in shadowed
areas are available to adequately delineate mean high water line.

HORIZONTAL CONTROL:
Four additional second-order triangulation stations were established
between Kenai and East Foreland to supplement existing control in the area
of hydrography. They were identified as follows:

AUDRY 1961 Manuscript No. 12049 Photo No. 1397
LOUISE 1961 " " 12049 " " 1402
BOO 1961 " " 12045 " " 1420
Additional horizontal control recovery was made in upper Cook Inlet in accordance with project instructions. All stations were searched for and approximately 75 percent were recovered. Most of the stations not recovered are considered lost. It is recommended that the next vessel assigned to this project be given a Tellurometer. Simple traverse between recovered triangulation stations would adequately control presently un-controlled flight lines.

In many cases the listed triangulation station was not recovered and a U.S. Engineers' triangulation station was used as a substitute. It appears that the U.S. Engineers could not recover listed C&GS control and substituted their own stations.

Great assistance was rendered by the 5040 Air Transport Squadron at Elmendorf AFB in furnishing helicopter service. Three days of flying enabled personnel to cover shoreline control stations over the greater part of upper Cook Inlet.

If additional control is required in the vicinity of Elmendorf AFB, use can be made of triangulation now being observed by a C&GS geodetic party. Triangulation station DORF 1961 (in the vicinity of LOOP 2) is to be set in the roof of a building on the base. By use of the description written by the observing party, an accurate office identification can be made.

Triangulation not plotted on the Photo Index was identified where it was on photographs. This control was established by G.W.M. in 1959 and H.G.C. in 1960.

VERTICAL CONTROL:-
None recovered or established.

CONTOURS AND DRAINAGE:-
No contouring was attempted.

Primary drainage features are the Kenai, Matanuska, Little Susitna, Susitna, Beluga, Kustian, and Drift Rivers. Tidal sweep keeps some of the rivers from building up deltaic features. An extremely flat foreshore on the Matanuska, Little Susitna, Susitna and Beluga rivers give rise to wide deltas that change seasonally. Many small streams discharge around Cook Inlet but have no apparent seasonal change.

WOODLAND COVER:-
The major portion of the area is wooded and interspersed with muskeg and open grassy areas. These are easily identifiable on the photographs. In areas of increasing cultural activity, the woodland cover is being removed. No attempt was made to indicate these areas.

SHORELINE AND ALONGSHORE FEATURES:-
The mean high water line is adequately delineated on manuscripts 12049, 12046, 12045, 12040. In the area of photo hydro signals IVY and EGG, east of East Foreland, the mean high water line is as follows:

IVY 30 meters inside MHW
EGG on piles at MHW
Most of the shoreline signals are located at MHW along the beach. Many of the fishing huts set on piles at the base of the bluff were used as signals.

No attempt was made to delineate the low water line. Hydrography in the area should be satisfactory.

The foreshore area is primarily sand, small stones and boulders. The normal gradation from stones at MHW to sand at MHW exists in all areas, except south of the Kenai River. In this area a heavy layer of silt is found in the tide zone.

**OFFSHORE FEATURES:**
All offshore features are located by the hydrographer.

**LANDMARKS AND AIDS:**
There are two fixed aids to navigation within the limits of the hydrographic project:

**EAST FORELAND LIGHT**
**KENAI RIVER ENTRANCE RANGE**
Both are located on Chart No. 8553.

One floating aid is also located on Chart No. 8553. Another can buoy is maintained by the oil company and is located just north of the pier.

One landmark for charts is recommended in the Descriptive Report for SF-1-61. This landmark is identified as follows:

**KENAI TANK 1959**, located by G.W.M. and identified on Photo No. 6047400.

**BOUNDARIES, MONUMENTS AND LINES:**
None shown.

**OTHER CONTROL:**
Photo hydro signals were located in accordance with standard instructions. Signal IVY was found in error and relocated photogrammetrically, then verified by hydrographic cuts. Final location is shown on manuscript 12045.

Final location of photo hydro signals will remain in their relative position with the shoreline. Final compilation will cause a datum shift which will move both hydrography and signals the same relative amount.

**DATUM DIFFERENCES:**
Radial plotting of photo identified control stations was made in the field. The following discrepancies were noted between plot positions and geographic positions.

<table>
<thead>
<tr>
<th>Location</th>
<th>Lat.</th>
<th>Long.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAST FORELAND LIGHT 1960</td>
<td>-13.8</td>
<td>-75.4</td>
</tr>
<tr>
<td>BOULDER (USE)</td>
<td>-37.0</td>
<td>-45.2</td>
</tr>
<tr>
<td>KENAI CHURCH STEEPLE 1909</td>
<td>-15.3</td>
<td>-23.6</td>
</tr>
</tbody>
</table>
CULTURAL FEATURES:
Numerous fishing shacks are located along high water line in the area of hydrography. These huts are subject to damage by winter storms and are in a constant state of transition. No attempt was made to locate current huts.

The Nikiski Oil Pier was under construction at the time of photography. The completed dimensions are available from a blueprint of the structure submitted with descriptive report for Project SP-1-61.

Respectfully submitted,

Robert E. Williams,
Lieut. Comdr., C&GS

Gerald C. Saladin
IGN, C&GS

Arthur L. Wardwell,
Captain, C&GS
Comdg., Ship PATHFINDER
21. Area Covered

This project covers the eastern shoreline of Cook Inlet from Kenai to just north of Number Three Bay. Included are seven T-sheets: T-12040(2), T-12041, T-12042, T-12045(2), T-12046(2), and T-12049(2) at 1:20,000 scale, and T-12507, T-12508, at 1:10,000 scale.

22. Method

Three strips of 1:40,000 scale panchromatic photography (strips 18, 19, and 20) were bridged on the Wild STK-1 in order to obtain pass point positions and exact scale ratios to be used during compilation. Strip 20 was adjusted on four field identified triangulation stations with checks obtained from two additional triangulation stations and two tie points. Strip 18 was adjusted on four field identified triangulation stations with two tie points as checks. Strip 18 was adjusted on six tie points. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Calcomp.

Ratios at 1:20,000 scale were ordered for the entire project with additional 1:10,000 scale ratios for the area covering sheets T-12507 and T-12508. Ratios at 1:20,000 scale of the bridging photography were also ordered for the portion of the project not covered by the offshore photography.

The horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quads.

25. Photography

Photography was adequate as to overlap, definition, and coverage.

Submitted by: Michael L. McGinley

Approved by: John D. Perrow, Jr.
Chief, Aerotriangulation Section
JOB PH-6013
COOK INLET
EAST FORELAND AREA
ALASKA
**DESCRIPTIVE REPORT CONTROL RECORD**

**MAP NO.** | T-12045(2) | **JOH NO.** | PH-6013 | **GEOGRAPHIC DATUM** | N.A. 1927 | **ORIGINATING ACTIVITY** | Coastal Mapping Division, AMC, Norfolk, VA
---|---|---|---|---|---|---|---

**COORDINATES IN FEET**

**STATE** | Alaska | **ZONE** | 4 | **COORDINATES** | \(x = 250,621.25\) ft. | \(y = 2,444,824.50\) ft. | **REMARKS**
---|---|---|---|---|---|---|---

**T.B.M. NIKISKI 4, 1964**

Bridge Form 164 p. 3

**EAST FORELAND LIGHT, 1973 (field position)**

**COMPUTED BY** | R. R. White | **DATE** | 11/14/73 | **COMPUTATION CHECKED BY** | L. B. Foltz | **DATE** | 11/15/73 | **LISTED BY** | 10/04/74 | **HAND PLOTTING CHECKED BY** | DATE
---|---|---|---|---|---|---|---|---|---|---|---

**SUPERSEDES** NOAA FORM 76-41, 2-73 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT
T-12045(2)

31. **DELINEATION:**

Delineation was by the Wild B-8 stereoplotter, using 1:40,000 scale photography.

32. **CONTROL:**

See the attached Photogrammetric Plot Report dated September 1974.

33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs. The mean lower low water line was compiled from the compilation photos.

36. **OFFSHORE DETAILS:**

None.

37. **LANDMARKS AND AIDS:**

One aid, a triangulation station, was plotted and one landmark was located during compilation.
38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

See the attached Form 76–36B, Item 5 of the Descriptive Report, concerning junctions.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

A comparison has been made with the following USGS Quadrangle: KENAI (C-4), ALASKA, 1951, scale 1:63,360.

47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison has been made with the following National Ocean Survey Chart: No. 8553, 13th Edition, February 26, 1972, scale 1:194,154.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None.

**ITEMS TO BE CARRIED FORWARD:**

None.

Submitted by:

[Signature]

Charles Parker
Cartographic Aid
January 6, 1975

Approved:

[Signature]

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6013 (Cook Inlet)

T-12045

Bernice Lake

Cook Inlet

East Forehand

Kenai National Moose Range

Nikishka Bay

Approved by:
A. J. Wraight
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
FIELD EDIT REPORT

MAP T-12045

EAST FORELAND

JULY-AUGUST 1976

Field work on map T-12045 was completed by LTJG G.P. Kosinski and ENS N.G. Millett during July and August, 1976. The foreshore consists of gravel and rocks with a few isolated boulders. Bluffs of charting value extend along the entire coastline as noted on the ozalid. Field inspections of the shoreline were made at various stages of the tide by skiff and on foot.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. The photographs supplied to the field editor turned out to be of no value whatsoever in identifying offshore features, as they were all taken at fairly high stages of the tide. Significant features not visible on the photos (Fixes 240-01 and 240-02) were located by visual three-point sextant fixes utilizing signals located by the NOAA Ship Rainier in 1975 (offshore oil platforms), by the NOAA Ship Fairweather in 1976 (navigational aids), or scaled from the ozalid. A complete list of signals is appended. Refer to the accompanying fix computations and the observed angles found in the sketch book, volume one.

There are three oil company docks that are indicated on the map. The northern and southern ends of these piers are marked by navigational lights. The Collier pier, southernmost of the three, is presently being extended parallel to the shoreline. The navigational lights will be moved in the near future and were not located; these lights are not reported on Form 76-40. Further information may be obtained from the Union/Collier company, North Kenai Road, Kenai, Alaska. The remaining navigational lights on the Kenai Pipeline and Phillips piers were located by theodolite intersection or traverse. All computations are included with this report; the field geographic positions may be found in the following Table of Field Edit Fixes or accompanying Form 76-40.

Only three prominent rust-colored tanks are significant enough to be shown on the main portion of chart #16660, scale 1:194154, the others, as indicated on the ozalid, should appear on the 1:10000 scale inset of Nikishka on the same chart. Note the existence of two new bulkheads in the area; the one south of latitude 60°41'N is known as the new "Barge Dock", and was completed in 1976. Its corners were located by visual three-point sextant fix. See Fixes 241-01 to 241-05. The areas near this dock offshore of the MLNL were graded and surveyed by a private hydrographic surveying firm while field edit operations were in progress. The rock indicated on the ozalid on the MLNL near the dock was not found but its existence could not be disproved and should remain.

See survey records H-9619 and H-9621 for the hydrographic determination of the MLNL; no corrections were perceptible to the field editor and none are
indicated on the ozalid.

ADEQUACY OF COMPILATION

Compilation of this map is good. The photographs were useless in aiding the field editor. Every effort should be made to supply field units with photographs taken at zero or minus tides, rather than with photos flown at +10 to +15 foot tides.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the ozalid and be accepted as an advanced manuscript.

Respectfully submitted:

[Signature]

Gregory P. Kosinski, LTJG, NOAA
61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

Not applicable.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the following Hydrographic Surveys:
H9074, scale 1:5,000 July 1969
H9619, scale 1:20,000 April 11, 1978
H9621, scale 1:20,000, June 1, 1978.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts:
16660, scale 1:194,154 (1:40,000 inset), 22nd edition, May 8, 1982
16662, scale 1:100,000 (1:50,000 inset), 1st edition, April 9, 1983.

The above listed Charts show a pile located at latitude 60°40.3',
longitude 151°23.5'; it was charted from the unreviewed Class I Chart

The intended purpose of locating this pile was to advise the
Hydrographer of a potential hazard, and for the Field Editor to evaluate
its character or existence. Field edit work was done in August 1976;
however, no information regarding the pile was received in this AMC
office.

After an examination of the Wild B-8 stereoscopic models 67 L
3661-3662 and 72 E(C) 4913-4914, the pile was removed from the Final
Class I Map. A Final Map Chart Maintenance Print indicating all changes
made to the Unreviewed Class I Map was prepared and forwarded to Marine
Charts.

The above listed charts compared well with this manuscript.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the
requirements for National Standards of Map Accuracy.
Submitted

James L. Byrd, Jr.

Approved for forwarding

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved

[Signatures]

Chief, Photogrammetric Production Sec.  Chief, Photogrammetry Branch
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHT</td>
<td>(East Foreland Light 1973) New Position</td>
<td>60 43</td>
<td>118.11</td>
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<tr>
<td>LIGHT</td>
<td>Phillips LNG Dock South Light</td>
<td>60 40</td>
<td>36.48</td>
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<tr>
<td>LIGHT</td>
<td>Phillips LNG Dock North Light</td>
<td>60 40</td>
<td>46.36</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Kenai Pipe Line Company Dock North Light</td>
<td>60 41</td>
<td>07.65</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Kenai Pipe Line Company Dock South Light</td>
<td>60 40</td>
<td>55.39</td>
</tr>
</tbody>
</table>

*Field Editor in 1976 stated this is a new position. He did not state how he determined the position.*
### Instructions for Entries Under Method and Date of Location

**Field Represented**
- Quality Control and Review Group
- Field Activity Representative

**Office Activity Representative**
- Other (Specify)
- Coastal Party
- Hydrographic Party
- Photo Field Party

**Activities**
- Chart(s) & Process
- Date(s), Note(s)
- NOAA
- NOAA

**Type of Action**
- Responsible Personnel

**Positions Determined and/or Verified**
- Objects Inspected from Swar年第

**Forms Omitted or Quality Control**
- Form(s) or Quality Control

**Chart(s) & Process**
- Date(s), Note(s)
- NOAA
- NOAA

By photogrammetric methods, entirely on trinity, on core samples or by other methods, field positions are determined by field observer.

**Example**: F-2-75

- Location and date of field work.
- A, field position x, require entry of method of determination.

- Location:
  - Exterior
  - Interior
  - Exterior
  - Exterior
  - Interior

- Type of field station:
  - Exterior
  - Interior

- Field station identified:
  - Exterior

- New position determined on verified field station:

- Exterior

- Interior

- Interior

- Exterior

- Exterior
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<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>OFFICE</th>
<th>FIELD</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>TANK</td>
<td></td>
<td>60 41</td>
<td>21.78 151 23</td>
<td>V-Vis</td>
<td>8/25/76</td>
<td>16660</td>
</tr>
<tr>
<td>TANK</td>
<td></td>
<td>60 41</td>
<td>19.29 151 23</td>
<td>V-Vis</td>
<td>8/25/76</td>
<td>16660</td>
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<tr>
<td>TANK</td>
<td></td>
<td>60 41</td>
<td>16.61 151 23</td>
<td>V-Vis</td>
<td>8/25/76</td>
<td>16660</td>
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<tr>
<td>TANK</td>
<td>Rust colored tank.</td>
<td>60 40</td>
<td>48.46 151 23</td>
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<td>8/25/76</td>
<td>16660</td>
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<td>TANK</td>
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<td>46.20 151 23</td>
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<td>8/25/76</td>
<td>16660</td>
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<td>60 40</td>
<td>43.85 151 23</td>
<td>V-Vis</td>
<td>8/25/76</td>
<td>16660</td>
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<tr>
<td>TANK</td>
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<td>01.23 151 23</td>
<td>V-Vis</td>
<td>8/25/76</td>
<td>16660</td>
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<tr>
<td>TANK</td>
<td></td>
<td>60 40</td>
<td>23.94 151 22</td>
<td>V-Vis</td>
<td>8/25/76</td>
<td>16660</td>
</tr>
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</table>
**Instructions for Entries Under Method and Date of Location**

<table>
<thead>
<tr>
<th>Activities</th>
<th>Form Created by Quality Control and Final Review</th>
<th>Field Positions Determined and/or Verified</th>
<th>Locations Inspected from Standing</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME</td>
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<table>
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<tr>
<th>RESPONSIBLE PERSONNEL</th>
<th>ORGANIZATION</th>
<th>FIELD ACTIVITY REPRESENTATIVE</th>
<th>OFFICE ACTIVITY REPRESENTATIVE</th>
<th>QUALITY CONTROL AND REVIEW GROUP</th>
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<tr>
<td>Photo Field Party</td>
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<tr>
<td>Other (Specify)</td>
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<tr>
<td>Geodetic Party</td>
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<td>Hydrographic Party</td>
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<thead>
<tr>
<th>CHART N.</th>
<th>BLOOD</th>
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</thead>
<tbody>
<tr>
<td>David P. Butler, Cartographic Technician</td>
<td></td>
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<tr>
<td>Geographic Party, IT (12), NOAA</td>
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</tr>
<tr>
<td>Geographic Party, IT (12), NOAA</td>
<td></td>
</tr>
</tbody>
</table>

**Example:** 74C(2)2982

8-12-75

**Example:** 75C(6)3042

Identify and locate the object. Day, and year (of the photograph), and date (including month, when available) of location or verification.

5. FIELD DETERMINED OR VERIFIED

6. NEW LOCATION DETERMINED OR VERIFIED

7. PROTOGRAPHIC FIELD POSITIONS, (Continued)

8. PHOTOGRAMMETRIC FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVER.

**Example:** F-2-6-L

LOCATION AND DATE OF FIELD WORK

A. FIELD POSITIONS DETERMINED BY...
### Landmarks for Charts

**REPORTING UNIT**: Coastal Mapping Div.  
**STATE**: Alaska  
**LOCALITY**: Cook Inlet  
**DATE**: 12/76  
**DATE**: Kalgin Island to Anchorage

The following objects ** HAVE X HAVE NOT ** been inspected from seaward to determine their value as landmarks.

<table>
<thead>
<tr>
<th>OPR PROJECT NO.</th>
<th>JOB NUMBER</th>
<th>SURVEY NUMBER</th>
<th>DATUM</th>
<th>POSITION</th>
<th>METHOD AND DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>469</td>
<td>PH-6013</td>
<td>T-12045(2)</td>
<td>NA</td>
<td>1927</td>
<td>NA</td>
<td>16660</td>
</tr>
</tbody>
</table>

**CHARTING NAME**: PLATFORM DILLON  
**DESCRIPTION**: Oil Platform called "Dillon"  
**LATITUDE**: 60 44  
**LONGITUDE**: 08.14 151 30 45.89
INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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