

4713

Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
R. S. PATTON, Director	
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MAR 14 1933	
State: ALASKA	
Acc. No.	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. 4713 Field "H"
LOCALITY	
KODIAK ISLAND	
CHINIAC BAY	
1932	
CHIEF OF PARTY	
F. B. T. SIEMS, Comdr. U. S. C. & G. S.	

Applied to Chart No. —

8535, scale 1:80,000, by James W. McGuire.

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC FIELD SHEET "H"

U.S.C. & G.S.S. SURVEYOR

F.B.T.SIEMS, COMMANDING.

1932

SCALE: 1:20,000

AUTHORITY:

The work on this sheet was accomplished under instructions dated April 22, 1932.

SURVEY:

Revision survey.

LIMITS:

This sheet joins topographic sheet "D" 1932 to the east. Uncompleted topography lies to the westward. The original sheet as laid out extended from Δ MAT, on the east, to the Buskin River, St. Paul Bay, on the west. Time reduced the westward limits to Broad Pt. The topography in this area was executed in 1907 by S.W. Tay, Aid, and W.C. Hodgins on T-2841. Sufficient topography was executed at salient points to determine discrepancies between existing and new surveys. Discrepancies at these points were found between the 1907 and 1932 topography. These points were in each case located by a triangulation station and the topography run from these stations in each direction as far as visibility permitted. Inspection of superimposed tracing of 1907 topography warranted a more detailed survey.

All information on this sheet shown in black ink was executed by customary topographic methods. Those portions shown in red ink are from the 1907 T-2841 survey and are adjusted to the new survey. Sextant fixes (with check angles) were taken at numerous points, shown in black dash line on QUEER, KALSIN, MIDDLE, and SVITLAK ISLANDS. The 1907 shoreline was then adjusted to these new points and is shown in red.

Only the more conspicuous rocks were located, the hydrographic party being instructed to locate all rock and verify those shown on T-2841. (See Hydrographic Sheet H-5251, Field No. 25)

CHARACTER OF CONTROL:

Standard third order triangulation controlled this survey.

CLOSING ERRORS:

All topographic signals in Kalsin Bay were cut in by three or more plane table cuts from triangulation stations. The intermediate shoreline between signals was traversed. The distances between topographic signals being small, no error was

found. Between Δ MAT and FLEX and, FLEX and IS, 3 topographic signals were cut in by triangulation cuts from Δ REFUGE RK. A line of azimuth was computed for these namely: RIV, AND, BEAR. The above mentioned practice was executed and strengthened by plane table traverse between IS and MAT. No error was found.

GENERAL DESCRIPTION:

The littoral adjacent to Isthmus Bay is of a gentle rolling nature, covered with spruce-trees, and footed by eroding clay banks, the highest being 150 ft. (45.75 m.). The point to the westward of Isthmus Bay is flat, extending approximately 1 mile to the south, and then rising gradually to high land. This point has eroding shoulders (40 ft. (12.2 m.) elev. approximately), similar to the coast to eastward. The small lagoon shown on chart permits entrance only at highwater, and then for extremely small craft. Both sides of Kalsin Bay have abrupt hills, the western shore rising immediately from the beach, while the eastern shore is footed with a flat strip, before rising to higher ground, covered with spruce-trees. The land lying between Kalsin and Middle Bay rises abruptly from the shore to high ground, forming a saddle.

ANCHORAGES:

The descriptions of two anchorages, one in Isthmus Bay and the other in a V-shaped bight S.E. of Svitolak Island are incorporated in the coast pilot notes attached to hydrographic report.

LIST OF PLANE TABLE POSITIONS:

No permanent plane-table positions were marked, since the entire area is covered with ample triangulation stations.

FORM LINES: No time was available for checking form lines, and while the changes in the shoreline are not very great, the locations of the peaks and form lines, should be checked next season.

Respectfully submitted,

Edwin C. Baum
Edwin C. Baum, Jr. H.&G.E.
U.S. Coast & Geodetic Survey.

Inspected
Approved and forwarded,

A. M. Sobieralski
A. M. SOBIERALSKI, H.&G.E.
Chief of Party, C.&G.S.

STATISTICS

Field number H (revision)

25 miles statute shoreline.

0 square miles formlines.

REVIEW OF TOPOGRAPHIC SURVEY No. 4713

Title (Par. 56) *Kalsin Bay, Chinik Bay, Kodiak I., Alaska*

Chief of Party *F.B.J. Liems* Surveyed by *E. C. Baum* Inked by *E. C. Baum*

Ship *Surveyor* Instructions dated *Apr. 22, 1932* Surveyed in *Sept. 1932*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions.
Revision survey incomplete, see Desc. Rep.
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was ~~not~~ accomplished. (Par. 18, 19, 20, 21, 22, 23.)
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *No formlines on sheet*
6. There is sufficient control ~~on maps from other sources that were transmitted by the field party to enable their application to the charts.~~ (Par. 28.)
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *The Desc. Rep. and note on sheet refer to Hyd sheet (H5251) for location and detail of flying rocks. A number of discrepancies in elevations and legends were noted and the hydrographic accepted as authority.*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) *flying rocks not verified by the topographer, see note relating to instructions to the hydrographers (Descriptive Report H5251).*
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. Locations and elevations of summits are ^{not} given. (Par. 19, 51.) *except on a few of the islets and rocks along shore, and bluffs at the high water line.*
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
Notes on changes are incomplete and indefinite.
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
15. ^{no} ~~The~~ descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *all marked stations were determined by triangulation.*
16. ^{no} ~~A~~ list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)
17. The magnetic meridian was shown [✓] and declination was checked. (Par. 17, 52.)
18. The geographic datum of the sheet is *Valdez* and the reference station is correctly noted. (Par. 34.) [✓]
19. Junctions with contemporary surveys are adequate.
20. Geographic names are shown on the sheet [✓] and are covered by the Descriptive report. (Par. 64, 66k.) *No new names are shown, all names used are shown on published chart 8570.*
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) [✓]
22. No additional surveying is recommended. *T 4713 is a revision of shoreline only. the topographer recommends a check of location of peaks and revision of form line. This is concurred in by the reviewer as elevations along shore differ considerably from the former survey. Ex. Kikum 3. 10' increased to 45'.*
23. The Chief of Party inspected ~~and approved~~ the sheet and the descriptive report. *after review by change of command took place between the time of survey and the forwarding of sheet to office.*
24. Remarks: *a defect in the negative of T 2841 was carried to the smooth Hyd. sheet as an islet. It was not shown on T 4713 but the topographer also did the hydrography in the vicinity and failed to notice the discrepancy. (See p. 3)*
- Reviewed in office by *R. J. Christman July 24, 1933.*

Examined and approved:

L. O. Polant.

Chief, Section of Field Records

E. W. Rasmussen

Chief, Division of Charts

Chief, Section of Field Work

G. H. Rude

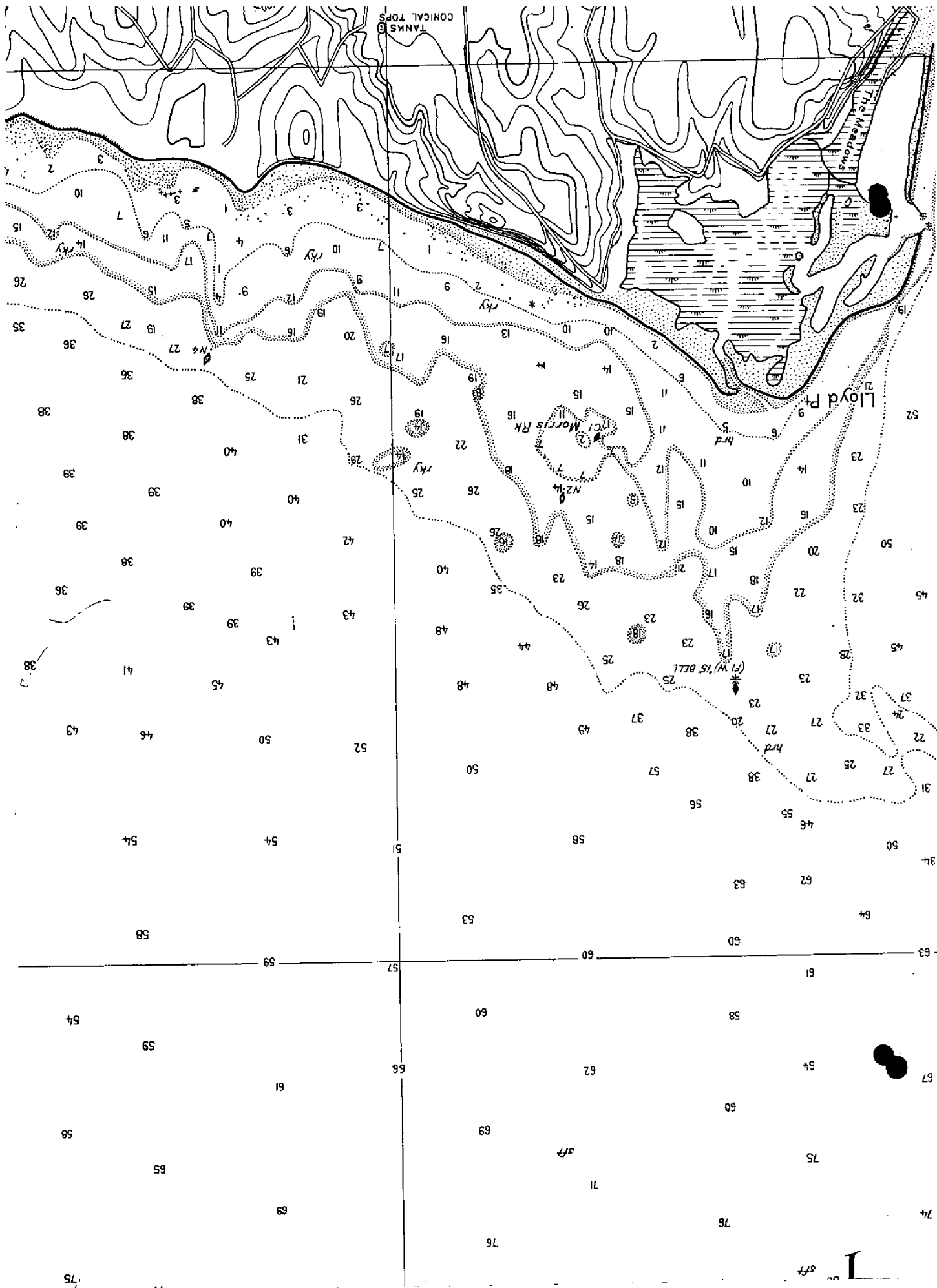
Chief, Division of Hyd. and Top.

(Par 24 continued) Review of Topographic Survey No. 4713.

The rock awash shown on T 2841 northward of the supposed islet was not mentioned in the records of H 5251 but was carried forward to that sheet as not being sufficiently disproved by the general terms of the Descriptive Report. T 2841 was not inked by the topographer doing the field work. There is a possibility that the elevation of Kekur Island (see par. 22) was inked erroneously and the 45' should be accepted though the description of the triangulation station does not give its elevation above sea level.

A rather free sketching seems to have been resorted to in the 1932 work but there is a much stronger control consisting of 10 triangulation stations as against 4 in the earlier survey. In view of this it is recommended that for charting purposes, the shoreline on T 4713 be accepted and the form lines and other detail above the highwater line be adjusted to it from T 2841. (See par. 22 relative to further surveys).

Approved
L. O. J.



DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4713

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. H

REGISTER NO. 4713

State Alaska
General locality Chiniak Bay
~~XXXXXXXXXXXX~~ Kodiak Island
Locality Kalsin Bay
Scale 1:20,000 Date of survey September, 1932
Vessel U.S.C. & G.S. SURVEYOR
Chief of Party F.B.T. Siems
Surveyed by Edwin C. Baum
Inked by Edwin C. Baum
Heights in feet above M.H.W. to ground to tops of trees
Contour, Approximate contour, Form line interval none feet
Instructions dated April 22, 1932
Remarks: Project # 58 Revision survey