

4479

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: ALASKA

11-5613

DESCRIPTIVE REPORT.

TOPO Sheet No. N. 4479

LOCALITY:

HARVESTER IF AND WEST SHORE, UYAK BAY

KODIAK ISLAND

Aug 28 1929

CHIEF OF PARTY:

R.E. Lukens

U. S. COAST AND GEODETIC SURVEY
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DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET #N.

HARVESTER ID. AND WEST SHORE OF UYAK BAY.

STR. SURVEYOR R.R. LUKENS, CMDG.

ORDERS DATED MARCH 14, 1929

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PURPOSE OF SURVEY This sheet is a resurvey of this area. It was executed primarily to locate signals for use by the hydrographic party. The eastern shoreline of Harvester Id. was resurveyed in detail, in compliance with the season's instructions. Contours were drawn to fill in areas previously omitted, and were extended back to make proper junction with the old work.

GENERAL DESCRIPTION Harvester Id. is mountainous and grass-covered. The shoreline is bordered by steep rocky cliffs, except for the low area and sand-spit at the southern end. On the eastern shore, these cliffs are about 40 feet high from oFar to ΔFox. From ΔFox to oMe they range from 60 to 150 feet high. There are many reefs fringing the shore, as indicated on the sheet. The spit extending from the southern tip of Harvester Id. to the lighted dolphin (Red), bares about 2 feet at low-tide.

On the mainland, the terrain is mountainous, with easy slopes, except for the shoreline, which is steep and bluff-bound in many places. The upper $\frac{2}{3}$ slopes of the hills are grass-covered; the lower slopes and the valleys are filled with a dense growth of alder-brush and salmon-berry brambles. Flowers blossom in profusion on the hillsides during the summer.

A sandy beach extends from Uyak to oIf. Low bluff points about 15 ft. high alternate with sand-beaches, from oIf to oNewt. At oNewt, rocky leagues extend from the point. From oNewt to oRap, the shore consists of steep rock-bluffs 60 to 100 feet high. Pebble and shingle beaches border the bluffs. The beach consists of large boulders and rocks from oGil to oRap. Between oRap and oHo the bluffs recede, and a valley terminates at the shore. From oHo southward the bluffline is steep averaging about 100 feet in height. This cliff-line is bordered by a shingle-beach. A conspicuous waterfall empties into the little bight south of oAre.

A lake, about one mile long, is reported to lie about one mile inland from Nel. It is indicated on the sheet with dotted lines for it was not surveyed.

ROCKS Cormorant Rock is the only offlying rock in the area surveyed. It lies about $\frac{1}{6}$ of a mile offshore, south of the entrance to Uyak Harbor. It bares at $\frac{1}{2}$ tide. A kelp-patch surrounds the rock.

Numerous inshore rocks fringe the eastern coast of Harvester Id., as indicated on the sheet.

SURVEY METHODS A traverse was run from ΔFox to (Tidal B.M.) When the spit was rounded, so that ΔBear Id. was visible, the cut to ΔBear Id. checked perfectly. Cuts to oRye and oFlo were taken, as well as to the signals in Uyak Harbor. A traverse was run from ΔFox to Buttress. The closing error was 3 meters. The traverse was continued to oRex. Cuts were taken on the signals on Bear Id. Setting up at oFlo, and using the cut from oTon, the position of set-up was determined by resection on ΔBear Id. and on ΔHarvester Id. A traverse was run along the shore to oTip, using the cuts as checks.

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The shoreline between Uyak and Δ Stan was next surveyed. When this area was surveyed the sheet was contracted, averaging $13\frac{1}{2}$ meters per mile in a North and South direction, and 4.0 meters per mile in an East and West direction. First a traverse was run from Δ Stan to the Uyak dock and southward to \circ Rus. Cuts on Cormorant Rock were taken from Tidal B.M., S.E. corner of Uyak dock, and \circ Newt. A traverse was then run from Δ Stan to \circ Rus. This junction at \circ Rus did not check by 20 meters. The traverse was rerun from Δ Stan to \circ Newt. After adjusting for distortion of the sheet the closure was 5 meters. This was distributed between \circ Rus and \circ Newt. Traverse were run southward from Δ Stan to \circ Fly and (on sheet "M" Larsen Bay) northward from Δ Entrance to \circ Fly. After adjusting for distortion on sheet "N" the closure was 5 meters. This was adjusted between \circ Ea and \circ Pin.

The magnetic meridian was omitted, thru oversight.

Contours. The contours west of Uyak Harbor were obtained by plane-table cuts from \circ Newt, Cormorant Rock, Rex, and \circ Flo. No plane-table cuts to points inshore could be taken from the shoreline between \circ Newt and \circ Fly. The contours south of Uyak, therefore, were obtained by sextant cuts from a launch lying-to at positions about one mile offshore.

COMPARISON WITH OLD SURVEY (Sheet 2892) The dock at the south end of Harvester Id, and the dock $\frac{3}{8}$ mile south of Uyak cannery dock are no longer in existence.

The black stack (Ty) near the southwest end of the cannery building at Uyak is not shown on the old survey. It is conspicuous and it is recommended that it be placed on the harbor chart (#8822). 7 8522 ✓ Otherwise the dock and buildings are practically the same as shown on the old survey.

The shoreline of the present survey south of Uyak from \circ Gab to \circ Lew does not check that of the old survey. The position of Cormorant Rock also differs by about 25 meters. Due to the small closing error of the traverse it is believed the present survey is correct, but this discrepancy was not detected until after leaving the field, so unfortunately the discrepancy was not checked in the field.

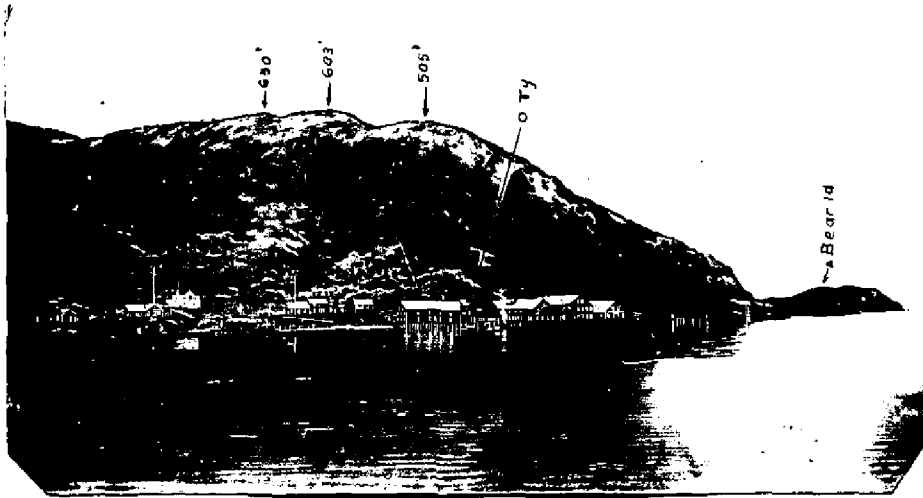
PHOTOGRAPHS A photograph by R.R. Lukens of Uyak is attached to this report.

approved
R.R. Lukens.

L.H. Hubbard

PLANE TABLE POSITIONS

OBJECT AND DESCRIPTION	LATITUDE	D.M.	LONGITUDE	D.P.	HEIGHT (approx)
RED, dolphin surmounted by red light	27°-38'	215m (1641)	153-59'	949m (47)	15'
TY, black stack at cannery	57-38	248 (1608)	154-00'	394 (601)	50
GAB, north gable, shed on beach	57-37	1556 (300)	154-00	310 (685)	15
CORMORANT ROCK, black rock, baring at $\frac{1}{2}$ tide	57-37	1140 (716)	153-59	223 (773)	-07
ROB, vertical sided rock detached at high tide	57-37	264 (1592)	153 59	133 (863)	15
RUS, conspicuous, vertical sided rock, detached at high tide.	57-36	1617 (239)	153-59	104 (892)	25
RAP, center of cabin on fish trap	57-35	779 (1077)	153-59	210 (787)	15
NEL, cabin in valley north of mouth of stream	57-35	318 (1538)	153-59	289 (708)	20



Photograph of Uyak Cannery and Dock. Taken by R.E. Lukens in August, 1929, at a position $\frac{1}{4}$ mile E.S.E. of Uyak and facing N.W. (approximately in Lat $57^{\circ}-38'$, Long. $154^{\circ}-00'$)

← Cormorant Rock.



View of Uyak Cannery from the hill directly behind it.

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TOPOGRAPHIC TITLE SHEET

REG. NO.

4479

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

Field Letter N

REGISTER NO. **4479**

State Alaska

General locality Kodiak Island

Locality West Shore Uyak Bay, Harvester Inlet, Larsen Bay
~~Uyak Harbor, Harvester Inlet~~

Scale 1-10,000 Date of survey August, 19 29

Vessel Str. SURVEYOR

Chief of Party R.R. Lukens

Surveyed by L.S. Hubbard

Inked by L.S. Hubbard

Heights in feet above M.H.W. to ground ~~to nearest tide gauge~~

~~Contour~~ ~~Approximate contour~~ Form line interval 100 feet

Instructions dated March 14, 1929

Remarks: