

4145

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Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Alaska</u> <small>11-5013</small>
DESCRIPTIVE REPORT.
Topo. <u>Sheet No. 4145</u> G
LOCALITY:
<u>Alaska Pen.</u>
<u>King's Cove</u>
<u>1925</u>
CHIEF OF PARTY:
<u>R. F. Luce</u>

## DESCRIPTIVE REPORT

## KINGS COVE

To accompany Topo. sheet G-1:10,000

Survey made under Directors orders, March 20, 1925.

### GENERAL DESCRIPTION:

Starting at triangulation signal King and extending east and north to signal Hit the beach is backed by a broken vertical rock bluff averaging thirty feet in height, except in the vicinity of signal Hit, where it falls away to the high water line.

Running parallel to and sloping steeply back from the bluff is a high sharp ridge, the lower portion is grass covered with an occasional clump of alders, the upper a bare slide of splintered volcanic rock.

The area between the high and low water line is a jumble of water-worn boulders and rough blocks of rock with occasional patches of coarse gravel: The foul area extends a considerable distance beyond the low water line and is definitely marked by kelp.

The section from signal Hit to signal Fin is a low gravel and shingle spit covered with coarse marsh grass and extending only a few feet above high water.

The narrow point of land on which the cannery buildings are located is very flat and has an average elevation of ten feet above high water. It has a thin coating of soil on a gravel foundation and is covered with coarse grass.

The beach from the cannery to the creek along the east side of the cove is composed of coarse gravel with occasional patches of boulders and a thin fringe of kelp, a few meters beyond the low water line. The high water line is marked by a ten foot eroded bank sloping back to a grass and alder covered ridge extending parallel to the beach and ending at the stream bed near hydro. signal Fish.

The stream is marked by a narrow flat grassy valley extending back normal to the beach line.

From signal Log extending as far as signal Bloc the high water line is marked by a low earth bank, generally vegetated, except in a few spots where there are short stretches of rock bluff.

Except in the vicinity of signal Lone where there is a stretch of fine sand beach, the general characteristics of the high to low water area are the same as the section further north and the entire stretch is marked by intermittent beds of kelp close inshore.

### THE LAGOON

Beginning at signal Fin the character of the beach line along the western side, around the northern end, and as far down the eastern shore as signal Rain, is very uniform. The high water line is definitely marked by vegetation. The high to low water area is a mixture of sand and very coarse gravel.

From signal Rain to signal Wind a steep rocky mountain slope extends directly down to the high water line. It is unvegetated except for small patches of grass and alder on the lower slopes. The high to low water area is composed mostly of splintered fragments of rock from the slope above.

The beach on the north side of the cannery peninsula is of sand and gravel and is very flat.

The boundaries of the four gravel banks shown between the outer and inner lagoon were carefully rodged in with a plane table at the time of the lowest low water in July.

The blue line on the sheet marks the only channel to the inner lagoon.

#### OUTLYING DANGERS

None

#### CURRENTS

The only points where the current is of particular importance are along the blue channel line. The current is purely tidal. During either direction of the flow boats entering or leaving the outer lagoon should hug closely the point marked by signal Fin.

It is inadvisable to attempt the passage to the inner lagoon even with small launches except at high water slack because of the shallow and restricted channel and the cross currents due to the bars. The maximum current is found at signal Fin and is as great as five knots during spring tides. The period of slack water is approximately thirty minutes and in the inner channel lags the tide by approximately the same time.

#### LANDMARKS

The only distinctive land mark, with the exception of the cannery buildings, near the cove is a 700 ft. peak at the extremity of Morgan Point. This peak is especially notable from the westward because of its regular cone formation and a mushroom shaped rock cap at the top. There is a single black stack at the main cannery building and two radio poles, one marked by station Radio.

#### INSHORE DANGERS

Morgan Point as far north as signal Sea is marked by off lying patches of boulders which are awash at low water and plainly marked by kelp. They are too close inshore however to be considered a menace to navigation.

#### ANCHORAGES

See hydrographic sheet report.

#### SURVEY METHODS

Plane table traverse with ~~fourth~~<sup>third</sup> order triangulation control. The maximum error of closure at any triangulation station was 6 meters. This error was always proportionately distributed between the last two control stations.

WELL ESTABLISHED LOCAL NAMES

MORGAN POINT; The rocky point at the western entrance of the cove.  
HEART LAKE; The fresh water lake near station Radio.

*Sheet inspected by Commanding Officer on July 31, 1925*  
*" approved " " " " Oct. 23, 1925*

# King Cove

Signals	Latitude		Sec. in meters	Longitude		Sec. in Meters	Remarks
Head	55	02	706	162	20	412	W.W. Detached Rk
Pier		02	814		20	253	W.W.
On		02	957		20	98	W.W.
Sat		02	1218	✓	19	1087	W.W.
Gul		02	1617		19	877	W.W.
Sea		03	266		19	826	W.W.
Fin		03	1312		19	435	Tripod
Dol		03	1220		19	787	W.W. Slats on Pole
Rock		03	1566		19	720	W.W.
Box		04	597		19	586	W.W. Box on pole
Ban		04	645		19	251	Ban on Pole
Slat		04	906		18	1057	W.W. Slats on Pole
Pin		04	1186		18	814	W.W.
Near		04	1335		18	631	Ban & Box on log
Bo		04	1581		18	431	W.W.
Bush		05	105		18	146	Cloth on Bush
Shun		04	1653		17	825	Ban on Pole
Nay		04	1166		17	989	Tripod
Dalm		04	896		18	56	W.W. Slats on Pole
Rain		04	707		18	168	"
Mist		04	510		18	354	"
Fog		04	240		18	534	"
Wind		03	1854		18	619	Box on Pole
Sam		03	1589		18	719	Large Cross Cemetery
Chim		03	785		18	586	Chimney on House
one		03	657		18	556	W.W.
Two		03	384		18	435	W.W.
Cliff		02	1852		18	329	W.W.
Fish		02	1605		18	224	Box on log
Log		02	1285		18	179	Ban on log
Spit		02	1096		18	178	Pile W.W. stones
Lone		02	535		17	905	W.W. Pin. Rk sand beach
Cab		02	284		17	748	Pile W.W. stones
Mid		02	06		17	644	W.W.
Bloc		01	1523		17	395	W.W.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4145 G

State S. W. Alaska

General locality Alaska Peninsula

Locality King Cove

Chief of party R. F. Luce

Surveyed by S. B. Grenell

Date of survey July 16-25, 1925

Scale 1:10,000

Heights in feet above — ?

Contour interval — feet.

Inked by S. B. Grenell Lettered by S. B. Grenell

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: approved Oct. 23, 1925  
R. F. Luce  
Comdg. Stn. Pioneer