

F 12342

F-12342

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	SHORELINE (Photogrammetric)
Classification	FINAL
Field No.	Office No. T-12342
	Field Edited map Edition 1
<b>LOCALITY</b>	
State	Alaska
General locality	Kamishak Bay
Locality	West of Shaw Island
<u>1962 - 1965</u>	
<b>CHIEF OF PARTY</b>	
P. A. Stark	Compilation Office
<b>LIBRARY &amp; ARCHIVES</b>	
DATE	

**DESCRIPTIVE REPORT - DATA RECORD**  
T-12342

PROJECT NO. (II):		PH:630J	
FIELD OFFICE (II):		CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III): Portland Photogrammetric Office Portland, Oregon		OFFICER-IN-CHARGE P. A. Stark	
INSTRUCTIONS DATED (II) (III): Office, March 18, 1965 Feb. 10, 1966, Supplement I May 5, 1967, Supplement II Dec. 27, 1967, Supplement III April 2, 1968, Supplement IV April 9, 1968, Supplement V			
METHOD OF COMPILATION (III): Kelsh Instrument			
MANUSCRIPT SCALE (III): 1:20,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:10,000 Pantograph scale 1:20,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.:		DATE:	DATE REGISTERED (IV): R. T. CATDK JUN 1976.
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MHW MEAN SEA LEVEL EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., <del>mean low water</del> or mean lower low water	
REFERENCE STATION (III): BEAVER, 1964			
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED	
58° 59' 28.03" N	153° 30' 19.06" W		
PLANE COORDINATES (IV):		STATE	ZONE
Y = X =		Alaska	5
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.			

## DESCRIPTIVE REPORT - DATA RECORD

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FIELD INSPECTION BY (II):		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Office interpretation of photography taken in June & July 1962  Kelsh Instrument		
PROJECTION AND GRIDS RULED BY (IV):  A. E. Roundtree		DATE 1-27-65
PROJECTION AND GRIDS CHECKED BY (IV):  P. Hawkins		DATE 1-27-65
CONTROL PLOTTED BY (III):  J. S. Place		DATE 3-15-65
CONTROL CHECKED BY (III):  R. H. Meyer		DATE 3-15-65
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  J. D. Perrow, Jr.		DATE 2-1-65
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  J. S. Place	DATE 4-13-65
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  C. C. Harris		DATE 4-20-65
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  L. F. Beugnet		DATE 4-26-65
REMARKS: Field edit, see letter dated October 10, 1965, and Hydrographer's Report.		

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DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

C&GS "M" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62 M 2258 thru 2266	7-3-62	1010	1:50,000	1.8 ft. above MLLW
62 M 2282 thru 2287	7-3-62	1020	1:50,000	2.4 ft. " "
62 W 6478 thru 6483	6-18-62	1400 (PST)	1:15,000	9.4 ft. above MLLW
62 W 6535 thru 6544	6-18-62	1630 "	1:30,000	14.3 ft. " "
62 W 6576 thru 6584	6-18-62	1640 "	1:30,000	14.2 ft. " "

From tide table predictions

*Predicted* TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SPRINGER</del> RANGE
REFERENCE STATION: <u>Seldovia</u>		15.4 ft.	17.8 ft.
SUBORDINATE STATION: <u>Ushagat Island</u>		11.4 ft.	13.7 ft.
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

*J. B. Phillips*

DATE:

*May 1976*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II):

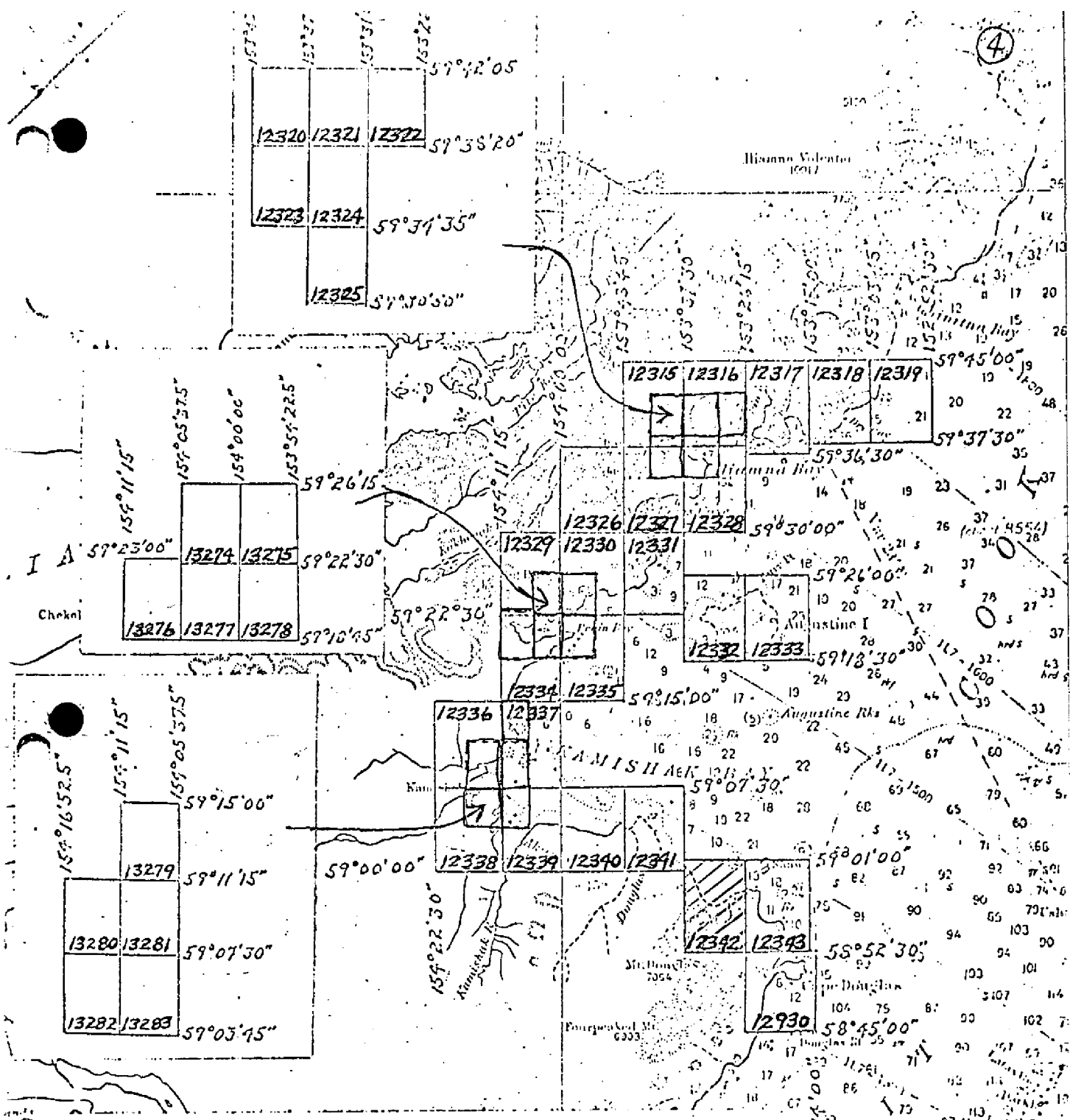
RECOVERED:

IDENTIFIED:

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:



JOB PH-6301 (PART-1)  
 COOK INLET, ALASKA  
 SHORELINE MAPPING  
 Scale 1:10,000 & 1:20,000

Revised 4-3-68 LFV

SUMMARY

T-12342 is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit was accomplished during *October 1965*.

Final review was accomplished at the Rockville Office in *May 1976*.

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

T-12342

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	April 20, 1965	Superseded
No major field edit corrections required		See letter dated 10/10/65

Photogrammetric Plot Report

Project 21062 T-12342

Kamishak Bay, Alaska

21. Area Covered

This report covers the southern portion of Cook Inlet, in the vicinity of Kamishak Bay to Cape Douglas, Alaska.

22. Method

Analytic aerotriangulation methods were used to bridge Strip #1 at the scale of 1:50,000.

Stereoplanigraph methods used to bridge Strip #2 at the scale of 1:30,000. Both strips were adjusted by the IBM 1620.

Points were dropped from Strip #1 to control one model needed to compile an offshore island. The points were also dropped from Strip #1 to provide control on the eastern end of Strip #2.

23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. Ties between strips were averaged. Bridging results meet National Map Accuracy Standards with the exception of station WARVIK, SS "B". No reason could be determined for its not being within standards.

WARVIK, SS "A" is marked ("doubtful") on Form 152 but seems to fit into a good adjustment pattern with small residuals.

24. Supplemental Data

Local quads were used to obtain vertical control for bridging purposes. Vertical points expressed on the readout are only as good as these quads and are not to be used as "Tight vertical control".

25. Photography

Photography was adequate with regard to coverage, overlap and definition.

Submitted by,

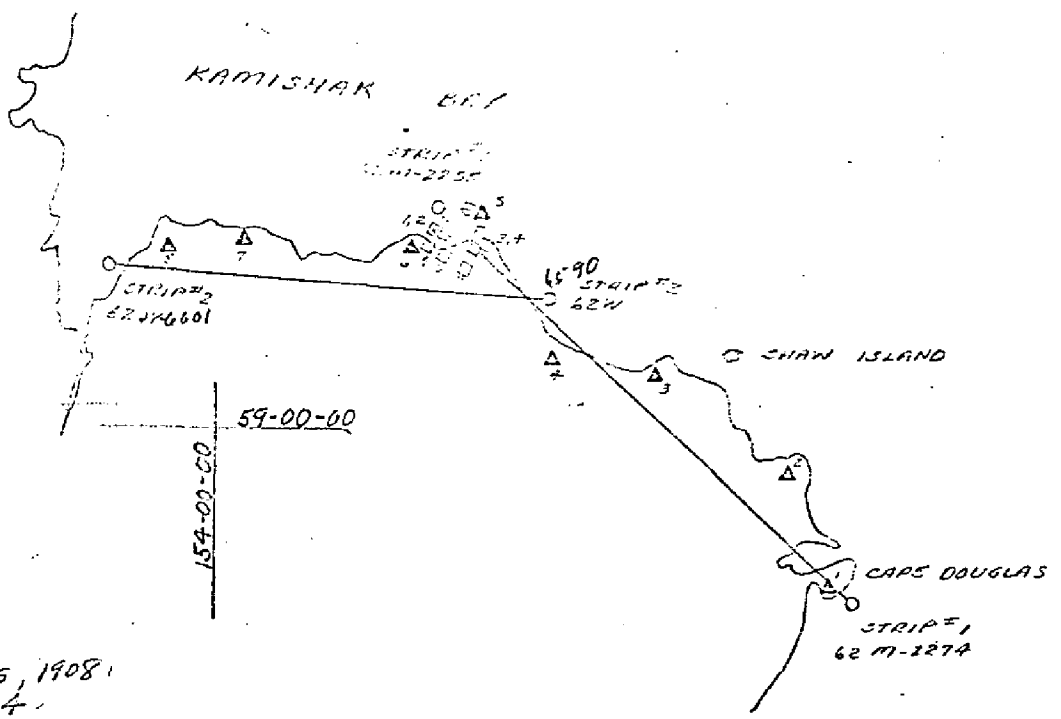
*JDF*  
John D. Ferrow, Jr.

Approved by:

*[Signature]*



# KAMISHAK BAY, ALASKA Z1062



- 1 South Douglas, 1964
- 2 Douglas, 1964
- 3 Beaver, 1964
- 4 Baby, 1964
- 5 Crow, 1964
- 6 Shale, 1964
- 7 Echo, 1964
- 8 Water, 1964

FIELD INSPECTION REPORT  
Map Manuscript T-12342  
Project 21062

There was no Field Inspection of this project  
prior to compilation.

COMPILATION REPORT  
Map Manuscript T-12342  
Project 21062

For Items 31 thru 38 please refer to the Compilation Report found in the Descriptive Report for Map Manuscript T-12339.

39. JUNCTIONS

Satisfactory junctions were made with manuscripts T-12341 on the west and T-12343 on the east. There is no contemporary survey on either the north or south.

40. HORIZONTAL AND VERTICAL ACCURACY

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS 15 minute AFOGNAK (D-5) Alaska Quadrangle, scale 1:63,360, Edition of 1951.

For Items 47 please refer to the Compilation Report found in the Descriptive Report for Map Manuscript T-12339.

Approved:

Submitted:

(for) P.A. Stark, CDR.  
Portland Field Officer

Donnel N. Williams.  
Cartographer

# Memorandum

~~6320~~  
631P

T-12342

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TO : The Director  
Thru: Seattle Regional Officer

5 OCT 15 1965

DATE: 10 October 1965

In reply refer to:

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FROM : Commanding Officer, USC&GSS PATHFINDER

SUBJECT: Field Edit Report, Project OPR-429: Kamishak Bay, Ninilchik.

No major field edit corrections for processing smooth sheets are required for the following incomplete manuscripts:

Ninilchik:

- T-12640
- T-12641
- T-12654

Kamishak Bay:

- T-12930
- T-12342
- T-12343

Minor corrections are contained in the hydrographic records and will be discussed in the descriptive report for the particular smooth sheet involved.

L. F. Woodcock  
Captain, USESSA

~~CC 6320~~  
R4d 11/3/65

Copy sent to NIZO. FOR ACTION



## HYDROGRAPHER'S REPORT T-12342

(12)

<u>VESSEL</u>	<u>INSTRUMENT NO.(s)</u>
ML-1	940, 935, 552
ML-2	557, 552
ML-3	140, 935
ML-4	145, 552
PATHFINDER	551, 141

E. SMOOTH SHEET

by smooth plotter

F. CONTROL

32%

Positioning was controlled by SHORAN (~~43%~~<sup>68%</sup>) and by visual three-point fixes (~~57%~~<sup>68%</sup>). Shoran stations were established in late June on 2nd-order traverse stations CROW, 1964 and S. AUGUSTINE 2, 1964. The latter station proved to be on unsuitable terrain for erection of a mast so it was placed on the station's RM-Z<sup>3</sup>. Shoran receivers were then installed in ML-1, ML-2, and ML-3. The snip and launch units were calibrated just before and after each fueling trip to Kodiak throughout the season, and corrections have been derived (enclosed). Zero checks were taken hourly. For details see 1965 SHORAN REPORT. Control stations for visual hydrography were established by signal building on existing traverse marks and on photogrammetric locations. It was necessary to establish several signal locations by sextant cuts. Photo-hydro signals are plotted on Incomplete Manuscripts T-12930, 12~~9~~<sup>3</sup>42, and 12~~9~~<sup>3</sup>43. (1:20,000, April, 1965).

G. SHORELINE

Sources of shoreline details are the manuscripts mentioned in the preceding section. No blue-line copies of these compilations were furnished so that extra copies of the blackline manuscripts were treated with DRY-WRITE ink, and the shoreline burnished onto the boat sheet. The same procedure is recommended to the smooth plotter.

Principal details of the shoreline were verified in the course of hydrography. Small revisions are suggested by the hydrographers notes on the boat sheet. The inshore ends of lines define the low water line in most areas. In those areas designated "foul" penetration is often terminated offshore. (Ex. Lat. 58° 54', 153° 19')

# HYDRO SURVEY REVIEWER'S REPORT

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## 2. Control and Shoreline

The origin of control is adequately covered in Part F of the Descriptive Report. The smooth plotter did not plot the on-shore-signals on the smooth sheet as visual fixes had been converted to shoran fixes for machine plotting. These signals were transferred by the reviewer from the preliminary unverified position plot of the present survey to the present survey position overlay in order to retain a graphic record of the original control.

The shoreline originates with advanced photogrammetric manuscripts T-12930 (1962-67), T-12342 (1962), and T-12343 (1962).

Several foreshore characteristics shown as Rky or rky on the above manuscripts were described more appropriately on the present survey smooth sheet as boulders.

The four islets on T-12343 in the vicinity of lat.  $58^{\circ}58.35'$ , long.  $153^{\circ}23.66'$  were specifically described on the boat sheet as being rocks awash and are so shown on the smooth sheet.

## 3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves are adequately delineated except in some inshore foul areas. In some cases, supplemental dashed and brown depth curves were added in accordance with Par. 6-64 of the Hydrographic Manual.

C. The development of the bottom configuration and the investigation of least depths are considered adequate, however, the hydrographer did not verify the least depths on hazards to navigation with a handlead as instructed by the Project Instructions.

## 4. Condition of the Survey

The plotting, sounding records, Descriptive Report, and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instructions Manual - Automated Hydrographic Surveys except as noted.

Inasmuch as a visual fix program was not available for automating the smooth plotting, the visual fix positions were converted to shoran values and machine plotted.

Review Report T-12342  
Shoreline Survey  
May 1976

62. Comparison with Registered Topographic Survey - None

63. Comparison with Maps of Other Agencies

Refer to item 46 in the Compilation Report.

64. Comparison with Contemporary Hydrographic Surveys

H-8842 1:20,000 1965-1973

This survey was unavailable for comparison during final review.  
Refer to letter dated October 10, 1965, page 11 of this report, subject,  
Field Edit Report.

65. Comparison with Nautical Charts

Chart 8554 1:200,000 13th Edition, May 1974

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

  
J. B. Phillips

Approved:

  
Chief, Photogrammetric Branch *JB*

  
Chief, Coastal Mapping Division

48. GEOGRAPHIC NAME LIST

The approved Geographic Names listed below were furnished by the Washington Office on USGS AFOGNAK (D-5) Alaska Quadrangle, Scale 1:63,360, Edition of 1951.

Kamishak Bay



