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DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Notes on the acquisition of high resolution seismic reflection profiles, side-scanning sonar records, and sediment samples from lower Cook Inlet and Kodiak Shelf, R/V SEA SOUNDER cruise S8-78-WG, August 1978.

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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

INTRODUCTION

The third U.S. Geological Survey geo-environmental cruise in lower Cook Inlet and on the Kodiak shelf and adjacent continental slope, Gulf of Alaska, was conducted aboard the R/V SEA SOUNDER from 2 August to 22 August, 1978 (Fig. 1, 2, and 3). The objectives of the cruise were to study in detail specific potentially hazardous environmental conditions identified as a result of the first reconnaissance cruise conducted in June and July of 1976 and from work by other investigators, and to initiate reconnaissance characterization studies on the continental slope. High-resolution seismic reflection profiling (sparker, Uniboom, 3.5 kHz, 12 kHz) and side-scanning sonar surveys formed the basis for selecting stations for observation with bottom television and 70 mm bottom camera as well as for sampling of surficial sediments (gravity corer, grab sampler).

Generalized trackline charts are given in Figures 2 and 3. Detailed shot-point charts could not be constructed clearly, because of the overlap and coincidence of many of the lines. Station locations are shown in Figure 4 and 5, and sampling information is given in Table 4. Table 5 contains the navigation records from the cruise.

The results of our investigations to date can be found in the references listed at the end of this text. Background information in lower Cook Inlet with several references is given in Open-File Report 75-429 (Magoon and others, 1975), and on the Kodiak shelf in Open-File Report 76-325 (von Huene and others, 1976).

In addition, this report accompanies the basic seismic-reflection and side-scanning sonar records acquired on the cruise. The seismic-reflection records are publicly available from the National Geophysical and Solar Terrestrial Data Center EDS/NOAA, Boulder, Colorado 80302. These records can be inspected at U.S. Geological Survey offices at Rm B-164, Deer Creek Facility, 3475 Deer Creek Road, Palo Alto, California 94303.

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INSTRUMENTATION AND PROCEDURES

Navigation

Two independent navigational systems were used by the scientific party. One unit consisted of a Magnavox integrated satellite—Loran C system, the other was a Motorola Mini-Ranger unit that was used only in lower Cook Inlet. The data from the integrated system were automatically recorded on magnetic tape, as well as typed out on a keyboard printer. The Mini-Ranger data were recorded on paper.

Every 15 minutes the positions were plotted manually on a 1:250,000 scale chart in lower Cook Inlet and on a 1:500,000 scale chart on the Kodiak shelf and slope. For easy reference a shot-point number was given to each 15-minute position. In addition to the routine plots, the locations of course changes were plotted. Furthermore, dead-reckoning positions based on satellite data, the ship's single-axis speed log and the gyro were computed every two seconds by the integrated system and stored on magnetic tape.

The Mini-Ranger system received its return signals from shore-based transponders positioned at desirable locations by a land-based support group. A maximum line-of-sight range over 80 nautical miles was obtained for some transponder locations. The Mini-Ranger was used as the primary navigational system in lower Cook Inlet because of the high frequency and accuracy of the data and because most tracklines were within range limits of the system.

In addition to the navigation by the scientific party, the ship's officers frequently succeeded in using radar and obtaining line-of-sight bearings.

Correspondence between the ship's and scientific positions generally was very high.

Seismic Profiling and Visual Format Systems

Sparker: Sparker data were recorded on the Kodiak shelf and slope using a Teledyne system at a power of 40 to 80 kilojoules. Seismic signals were received on a Teledyne 100-element, single-channel hydrophone, and the record was printed on a Raytheon model 1900 Precision Recorder. Usually, sweep firing rates were at 4 seconds, although 2 and 3 seconds were also used. Several different settings were used, but filters generally were adjusted to receive signals between 50 and 200 hertz. Records were annotated at 15-minute intervals with shot-point number, time (Greenwich Mean Time, GMT), and water depth.

<u>Uniborn</u>: The Uniborn system used four EG&G model 234 power sources of 200 joules, each driving hull-mounted plates. The hydrophone was an EG&G model 265. Data were recorded on an EPC 4100 recorder. Sweep and firing rates were typically at one-half second, and filter settings at about 500 to 1100 hertz. Annotations were made in the same manner as those on the sparker system.

High-resolution: A Ratheon TR-109 3.5 kilohertz seismic system, with a Raytheon 105 PTR transceiver and a CESP-II correlator, was used to gather high-resolution shallow-penetration seismic data, as well as bathymetry. The system operated with 12 hull-mounted transducers, and the data were recorded on an EPC 4100 recorder. Sweep and firing rates were at one-half second. Annotations were made in the same manner as those on the uniboom system.

Bathymetry: A Raytheon TR-73A transducer and a Raytheon 105 PTR transceiver 12 kilohertz system was used to gather bathymetric data, which were displayed on a digital readout and recorded on magnetic tape. Sweep and firing rates typically were at 1/2 second, and annotations were made the same as for the other acoustic systems.

Record quality: Four factors that significantly affected quality of the seismic records were 1) the typically coarse-grained and hard nature of the unconsolidated surficial sediments, 2) the shallow water depth throughout most of both areas, 3) acoustic vibrations from the vessel, and 4) rough seas.

Coarse-grained and hard sediments most severely effected the uniboom and 3.5 kHz records, causing much of the outgoing energy from these high-frequency systems to be reflected directly from the sea bottom with only a minor amount of energy penetrating through to subbottom reflectors. Some of the uniboom records show subtle, irregular traces of subbottom reflectors, which can be traced and correlated only with difficulty. Many of the 3.5 kHz records show no sign of subbottom reflectors and can be used only as indicators of water depth.

The shallow water depth caused multiples to appear at small distances below the initial sea-bottom reflection, partially or totally obscuring signals from deeper reflectors.

Although these four factors each have a deleterious effect on record quality, it was found by varying ship speeds and filter settings that the nature of the bottom sediments was the main reason for the seismic systems to display "poor" subbottom acoustic reflections on the records. Depth of penetration and details in the record consequently varied with type of bottom and water depth. Except for certain parts, the records allow adequate subbottom interpretation of geology. Side-scanning sonar: The side-scanning sonar unit used was an EG&G model, normally operated at a 125 m scale and towed above the bottom at 10% of the scale employed. High quality records were generally obtained. Although most side-scan sonar surveys were run at a ship speed of 4 to $4-\frac{1}{2}$ knots, currents could be responsible for a different speed over the bottom.

Normally the uniboom and 3.5 kHz units were run simultaneously with side-scan sonar for depth control and possible subbottom information.

<u>Bottom television and bottom camera</u>: A Hydro Products bottom television unit, underwater mercury lights, and a 70 mm camera were mounted in a large frame. Photographic exposures could be made by remote control by the TV-screen observer. A multiconductor cable, leading to the camera and light, was taped at 5-m intervals to the winch cable.

Because currents are always present in the lower Cook Inlet area, it was impossible to fly the sled slowly and at a uniform distance over the bottom. Consequently, a system of jumping had to be used, lowering the sled to the bottom and giving some slack wire. Due to ship's drift, the cables became taut after a few seconds and the sled was then dragged over the bottom. At that time, it was lifted and allowed to drift rapidly before it was again lowered to the bottom.

Sampling Devices

Gravity corer: The gravity corer consisted of a 1500-pound weight to which one to three 3-m, 7.6-cm ID steel core barrels were attached. A clear polybutyrate liner was inserted in the barrels, and the sediment was retained by a brass-fingered core catcher.

The cores were cut into 1.5-m sections, and 10-cm long pieces were cut from the ends of some sections for hydrocarbon gas analysis. The remaining core was x-rayed and then split lengthwise into working and archive halves. From the working half, vane shear measurements were made, and samples were taken for grain size, water content, and Atterberg limits. The archive half was described and photographed. Both sections were put into storage tubes that were capped, taped, labelled, and stored under refrigeration.

Grab samplers: The normal Van Veen grab sampler proved to be too light for adequate sampling of the typically sandy-gravelly bottoms. Generally, successful attempts were obtained with a heavy modified grab sampler constructed by Andy Soutar of Scripps Institution of Oceanography.

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Table 1. Itinerary of R/V SEA SOUNDER cruise S8-78-WG in lower Cook Inlet and on the Kodiak shelf and slope, Alaska.

Port	Arrive	Depart	Remarks
Homer		2 Aug 5:03 am (214/1530)	Start leg 1, to lower Cook Inlet.
Homer	10 Aug 1:10 pm (222/2310)		End leg 1.
Homer		11 Aug 1:07 pm (223/2307)	Start leg 2, to Kodiak shelf and slope.
Kodiak	22 Aug 5:00 am (234/1500)		End leg 2.

NOTE: Julian day and GMT time are given between brackets.

Total underway time: 455 hrs.

Total trackline miles/time: 901.0 nm/187.8 hr.

Stations occupied/total time on station: 62/82.1 hr.

Table 2. Types and amounts of data collected on board the R/V SEA SOUNDER cruise S8-78-WG in lower Cook Inlet and on the Kodiak shelf and slope.

Data type	Trackline	Remarks
Single-channel arcer	319,6 nm (591.9 km)	1 roll recording paper
Uniboom	638.3 nm (1182.1 km)	10 rolls recording paper
Side-scanning sonar	434.6 nm (804.9 km)	16 rolls recording paper
3.5 kHz	411.5 nm (762.1 km)	10 rolls recording paper
12 kHz	1869.2 nm (3461.7 km)	21 rolls recording paper
Navigation	1933.7 nm (3581.3 km)	5 reels mag. tape
Gravity core		35 recoveries
Soutar grab		21 recoveries
TV/camera		7.8 hours, 8 reels mag. tape
Profiling current meter		3 stations

Table 3. Scientific personnel on board the R/V SEA SOUNDER cruise S8-78-WG in lower Cook Inlet and on the Kodiak shelf and upper slope.

Name	Affiliation	Duties	Leg
Arnold Bouma	USGS, PAB	co-chief scientist	1-2
Monty Hampton	USGS, PAB	co-chief scientist	1-2
Glen Barker	USGS, PAB	marine technician	1-2
Ed Clukey	USGS, PAB	soil engineer	2
Rod Combellick	NOAA, Juneau	geologist	1
Rich Garlow	USGS, PAB	navigator	1-2
Louis Garrison	USGS, Corpus Christi	geologist	1
Helen Gibbons	USGS, PAB	navigator	1-2
David Kestley	Sandia Corp., Albuquerque	geologist	2
Robert Orlando	USGS, PAB	navigator	1~2
Robert Patrick	USGS, PAB	electronics technician	1-2
Melvin Rappeport	USGS, PAB	geologist	1-2
George Redden	USGS, PAB	geologist	2
David Rubin	USGS, PAB	geologist	1
Dwight Sangrey	Cornell Univ., Ithaca	soil engineer	2
William Schwab	USGS, PAB	geologist	1-2
Phyllis Swenson	USGS, PAB	geologist, data curator	1-2
Michael Torresan	USGS, PAB	geologist	1-2
Bruce Turner	USGS, Anchorage	geologist	2
John Whitney	USGS, Anchorage	geologist	1

Ship's Officer's

Kenneth Simpson	captain
William Soulle	chief engineer
John Langoir	chief mate

^{*}USGS, PAB = U.S. Geological Survey, Branch of Pacific-Arctic Marine Geology, Menlo Park, California.

Table 4. Information on sampling stations and samples, cruise S8-78-WG in lower Cook Inlet and on the Kodiak shelf and slope.

Sample number	Latitude Longitude	Water depth(m)	Equipment type	Comments
300	59 ⁰ 36.0'N 152 ⁰ 03.9'W to	36	TV/camera grab sample	TV: pebbly bottom with some very thin, discontinuous, rippled sand patches.
	59 ⁰ 34.7'N 152 ⁰ 02.1;W	40		Sample: sandy with some pebbles. Concentration of shell fragments and sand dollars on the surface.
301	59 ⁰ 35.3'N 152 ⁰ 12.7'W to	40	TV/camera	Sand wave contact. Adjacent to sand a pavement of primarily shells. Some thin sand patches.
	59 ⁰ 35.6'N 152 ⁰ 13.0'W			We missed the actual sand waves.
302	59 ⁰ 35.8'N 152 ⁰ 18.9'W to	56	TV/camera grab sample	TV: 1/2 mile stretch. Small sand waves, 5-8 cm high, 3-8 m wave length. Broad troughs with clams, followed by sand patches.
	59 36.6'N 152 ⁰ 18.1'W			followed by sand patches, followed by straight-crested ripples, followed by small slip face. Sample: sand with shell fragments and few complete shells.
303	59°33.5'N 152°35.6'W to 59°31.8'N 152°36.3'W	77	TV/camera grab sample	TV: medium sized sand waves, 3-5 m high. Superposed are small sand waves: shell lag in trough, bulbou ripples on lower stoss side, sinuous ripples on upper stoss side slip face sometimes with straight ripples parallel to flow. Sample: sand with some shell hash.
304	59 ⁰ 31.6'N 152 ⁰ 29.8'W to 59 ⁰ 31.4'N 152 ⁰ 32.7'W	55	TV/camera	Large bedforms with flat troughs. Features too large to obtain good characterization.
305	59 ⁰ 30.7'N 152 ⁰ 30.2'W	57	Grab sample	Trough of large sand wave. Clean sand with a few shell fragments.
306	59 ⁰ 30.8 152 ⁰ 30.6	57	Grab sample	Same as #305

Sample number	Latitude Longitude	Water depth(m)	Equipment type	Comments
307	59 ⁰ 32.5'N 152 ⁰ 30.0'W	54	Grab sample	No recovery.
308	59 ⁰ 31.4'N 152 ⁰ 28.9'W	52	TV/camera	Field of large sandwaves up to 9 m high. Two smaller orders
-	to 59 ⁰ 32.3'N 152 ⁰ 28.2'W			observed, with heights of about 1 m and a few cm.
309	59 ⁰ 30.7'N 152 ⁰ 31.0'W		TV/camera	Similar setting and observations as #308. Better than #308.
	to 59 ⁰ 31.0'N 152 ⁰ 29.8'W			
310	59°30.8'N 152°29.9'W	52	Grab sample	Crest of 5-m high, solitary sand wave. Clean sand with some broken shell material.
311	59 ⁰ 30.8'N 152 ⁰ 30.1'W	55	Grab sample	Trough between large sand waves. Gravelly sand.
312	59 ⁰ 30.4'N 152 ⁰ 30.4'W	55	Grab sample	Same as #311. Shelly sand.
313	59 ⁰ 27.4'N 152 ⁰ 38.6'W to 59 ⁰ 27.4'N 152 ⁰ 38.6'W	57	TV/camera, current meter	Anchor station over large sand wave. Mechanical problems with film transport. (see sta. 314).
314	59 ⁰ 27.0'N 152 ⁰ 37.8'W	56	TV/camera	Anchor station, same bedform as sta. 313. Five lowerings at different tidal stages. Observa-
	59 ⁰ 26.4'N 152 ⁰ 40.4'W	58		tions of bottom used to study results of current meter lowerings
315 .	59 ⁰ 25.7'N 153 ⁰ 19.2'W	42	Gravity core	Clayey silt.
316	59 ⁰ 25.7'N 153 ⁰ 19.2'W	58	Gravity core	Clayey silt with pebbles.

Sample number	Latitude Longitude	Water depth(m)	Equipment type	Comments
317	59°23.1'N 153°18.8'W	36	TV/camera	Bottom characterization ENE off Augustine Island. Heavy over- growth of plants and animals.
	to 59 ⁰ 23.6'N 153 ⁰ 19.4'W			Few volcanic rocks visible.
318	59 ⁰ 09.8'N 152 ⁰ 38.4'W	137	Grab sample	Base of Cook Ramp. Flat bottom. Pebbly, muddy sand.
319	59 ⁰ 13.6'N 152 ⁰ 38.4'W	79	Grab sample	Large bedforms on Cook Ramp. Sand with shells.
320	59 ⁰ 17.3'N 152 ⁰ 36.4'W		TV/camera grab sample	Area of no bedforms, above Cook Ramp, Fine sand. TV: area covered with small ripple
	to 59 ⁰ 19.0'N 152 ⁰ 42.3'W		J ,	Sinuous to straight, some interference pattern. Animal trails common. Sea pens and sand dollars. Few flounders and crabs.
321	59 ⁰ 22.9'N 152 ⁰ 38.2'W	64	Grab sample	Medium to fine sand.
322	59 ⁰ 31.2'N 152 ⁰ 38.5'W	67	Grab sample	Shelly sand
323	59 ⁰ 31.1'N 152 ⁰ 38.8'W	65	TV/camera, current meter	Medium to fine sand.
324	59 ⁰ 32.5'N 152 ⁰ 30.8'W	59	TV/camera, current meter	At anchor. Sand waves up to 12 m high. Small sand waves can be distinguished, larger sizes
	to 59 ⁰ 32.8'N 152 ⁰ 30.8'W	59		noted.
325	59 ⁹ 33.0'N 152 ⁰ 25.2'W	56	TV/camera	Sand ribbons. Bottom smooth out- side ribbons with irregular
	to 59 ⁰ 33.0'N 152 ⁰ 25.3'W			patches of rock, pebbles and shells: heavily overgrown. Very low small sand waves on ribbons.
326	59 ⁰ 32.8'N 152 ⁰ 25.4'W	55	Grab sample	Slightly muddy sample with abundance of shells and shell fragments.

Sample number	Latitude Longitude	Water depth(m)	Equipment type	Comments
327	59 ⁰ 33.8'N 152 ⁰ 25.0'W	55	Grab sample	Sandy, shell hash, pebbles, algae, bryoroa, pecten.
328	58 ⁰ 27.8'N 153 ⁰ 16.0'W	177	Gravity core	Shelikof Strait. Slightly sandy mud.
329	57 ⁰ 39.0'N 151 ⁰ 57.8'W	218	Gravity core	Near head of Chiniak Trough. Gray- green sandy mud. Gas expansion voids. H ₂ S odor.
330	57 ⁰ 39.0'N 151 ⁰ 57.8'W	135	Gravity core	Northern Albatross Bank; acoustically unstratified zone. Shelly muddy sand.
331	57 ⁰ 33.2'N 147 ⁰ 38.5'W	4895	Gravity core	Aleutian Trench. Grey-green mud.
332	57 ⁰ 39.3'N 148 ⁰ 12.2'W	3273	Gravity core	Open continental slope. Stiff grey-green mud.
333	57 ⁰ 38.5'N 148 ⁰ 45.3'W	2787	Gravity core	Continental slope basin. Silty clay with sand beds (turbidites). Volcanic ash on top.
334	57 ⁰ 32.8'N 148 ⁰ 57.4'W	2857	Gravity core	Continental slope; axis of canyon. Silty clay.
335	57°28.3'N 149°04.1'W	2695	Gravity core	Continental slope basin. Stiff grey clay with graded sand beds (turbidites). Volcanic ash at surface.
336	57 ⁰ 46.6'N 149 ⁰ 02.4'W	1700	Gravity core	Open continental slope. Siff grey- green pebbly mud.
337	57 ⁰ 00.3'N 149 ⁰ 44.8'W	3512	Gravity core	Lower continental slope. Yellow- green mud; becomes semilithified at 2 m.
338	57 ⁰ 14.2'N 150 ⁰ 07.1'W	1586	Gravity core	Continental slope basin. Grey-green silty mud.
339	57 ⁰ 14.2'N 150 ⁰ 17.4'W	1100	Gravity core	Landward of continental slope basin. Gravelly sandy green mud.
340	57 ⁰ 17.5'N 150 ⁰ 24.7'W	761	Gravity core	Continental slope basin. Silty clay.

Sample	Latitude Longitude	Water depth(m)	Equipment type	Comments
341	56 ⁰ 59.0'N 152 ⁰ 21.5'W	80	Grab sample	Middle Albatross Bank; in acoustic-anomaly zone. Muddy shelly sand with gravel layer on top.
342	56 ⁰ 55.8'N 152 ⁰ 15.4'W	79	Grab sample	Middle Albatross Bank; in acoustic anomaly zone. Pebbly muddy sand.
343	56 ⁰ 40.0'N 153 ⁰ 05.5'W	153	Gravity core	Kiliuda Trough; in acoustic- anomaly zone. Green to yellow mud with black mottling.
344	56 ⁰ 39.6'N 153 ⁰ 05.6'W	155	Gravity core	Kiliuda Trough; adjacent to acoustic anomaly zone of #344. Gray-green mud with darker mott- ling. Gas expansion voids.
345	56 ⁰ 34.8'N 153 ⁰ 17.3'W	119	Gravity core	Flank of Kiliuda Trough; within acoustic-anomaly zone. Grey-green mud with black laminae.
346	56 ⁰ 36.6'N 153 ⁰ 17.8'W	120	Gravity core	Kiliuda Trough; within acoustic- anomaly zone. Sandy mud.
347	56 ⁰ 36.2'N 153 ⁰ 17.8'W	138	Gravity core	Kiliuda Trough; within acoustic- anomaly zone. Dark green mud.
348	56 ⁰ 37.3'N 153 ⁰ 18.6'W	143	Gravity core	Kiliuda Trough; within acoustic- anomaly zone. Dark green mud with gas expansion voids.
349	56 ⁰ 38.0'N 153 ⁰ 19.4'W	145	Gravity core	Kiliuda Trough; near edge of acoustic-anomaly zone. Dark green mud.
350	56°46.4'N 153°10.4'W	154	Gravity core	Kiliuda Trough; at base of fault scarp. Green mud, H ₂ S odor.
351	56 ⁰ 46.7'N 153 ⁰ 10.8'W	125	Gravity core	Kiliuda Trough; above fault scarp Green to blue mud.
352	56 ⁰ 41.0'N 153 ⁰ 10.9'W	150	Gravity core	Kiliuda Trough; within acoustic- anomaly zone. Green mud.
353	56 ⁰ 40.0'N 153 ⁰ 11.1'W	148	Gravity core	Kiliuda Trough. Green mud.
354	56 ⁰ 37.8'N 153 ⁰ 15.6'W	143	Gravity core, grab sample	Kiliuda Trough. Grey-green mud.

Sample number	Latitude Longitude	Water depth(m)	Equipment type	Comments
355	56 ⁰ 08.8'N 153 ⁰ 29.6'W	314	Gravity core	East side of Sitkinak Trough. Green to blue mud.
356	56°05.6'N 153°31.3'W	370	Gravity core	Axis of Sitkinak Trough. Pebbly sandy mud, with gas-expansion voids.
- 357	56 ⁰ 07.6'N 153 ⁰ 38.4'W	240	Gravity core	Axis of Sitkinak Trough. Grey- green mud.
358	56 ⁰ 47.2'N 153 ⁰ 11.6'W	122	Gravity core	Kiliuda Trough, above fault scarp Same as #351. Green sandy mud.
359	56 ⁰ 46.6'N 153 ⁰ 10.7'W	152	Gravity core	Kiliuda Trough, at base of fault scarp. Same as #350. Green mud.

Navigation logs from curise S8-78-WG in lower Cook Inlet and on the Kodiak Shelf and Slope Table 5.

U.S.G.S. AVIGATION LOG

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Assistant Assistant Area

Affiliation (256.5

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U.S.G.S. NAVIGATION LOG

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U.S.G.S. AVIGATION LOG

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U.S.G.S. MAVIGATION LOG

Ship Sea Source Chief Scientist Bolling / Athings Attiliation 4262

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1471 57 08,7941 ELIZA BETH, WZ15

LOW - 151- 38.852'

Cruise Locator SA

U.S.G.S. WAVIGATION LOG

LATI 60'03,214' 401 # 1007S

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1471 59. 09,294

LAT 160° 03,214' H=16'30015

U.S.G.S. WAVIGATION LOG

FLIZABETH, # 3+5

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LAT: 59. 09.298'

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LOW: -151' 38. 353' W! 6657224.19

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Cruise Locator S.P.

U.S.G.S. WAVIGATION LOG

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Cruise Locator 58

U.S.G.S. AVIGATION LOG

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LORAN, RAYDIST, etc. ţ 71mm 520497.73 520179.51 519581.47 519171.39 5: 620 4 PO 196 Page 12 of __ 520654.06 **3** 518494.41 518435.86 517916.81 51772.69 520499 FASTING 1 500 į 181:59.09.198' 404:-151"51.108' N: 655.7659.71 E156576863 VIBUAL, MADAR, ETC. • 65744155 05 į 621370103 664204 Ha S1 198 H S3 57192423 65 12712 32 657320652 65 72539.20 573715.63 C5 73268 7 4-165692091 HOLDING DBJECT 400-151' 88.352' W:6657224.19 6.510093.54 ON! 6:575365.75 48.9 W. PLE 1414 9.89 ř MINUTES LONGITUDE LAT: 54" 34.627' 40N: 131 39,750 **DEG** Cruise Locator 58 -28 - 186 AREA Affiliation 4.5.6.5. DEG MINUTES LATITUBE N N New Course E & Ship as sa sauna Chief Scientist Boung/Hareren U.S.G.S. AAVIGATION LOG COMMENTS BTACTOR INC. 120 1307 ¥ 12. Aug.

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U.S.G.S. MAVIGATION LOG

Ship No SEA SOMONE. Chief Scientist SOUMA/HOMPTON

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LON: -151- 18,852 N: 6657224.19 £ 520092.54

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ELIZABETH, # 3+5

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Cruise Locator 58

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Ellenbermin Jes

SLOPE, WIFR

U.S.G.S. "AVIGATION LOG

Ship Alv 560 senses. Chief Scientist Bound HAPPIN

Cruise Locator 58 -28 - 28 - 100 - 1

Affiliation 4.5.6.5.

LAT : 59' 39,627' NIGE 14149,89

ELIZA BOM, 43+5 10W:-151" 38,352" LAT: 40" 03.XIW' N: 6657274.19 F: 520042.54 N +1'90075

LON: -151" 51.108"

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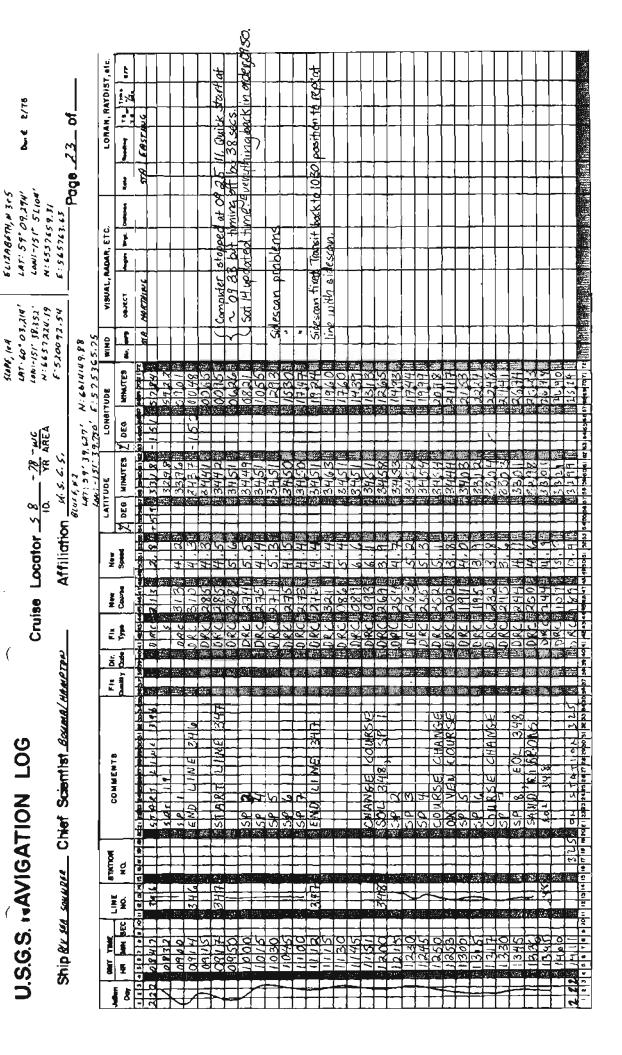
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Page 27 of ___

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Cruise Locator 58 -78 - WC-

Affiliation USBS Ship RV Sea Saunder Chief Scientist Bourna/Hompton

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Page 31 of

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Page 34 of_

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Page 35 of

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U.S.G.S. WAVIGATION LOG

Cruise Locator S8 -76- NVS Ship RV SerSounder Chef Scientist Hampton/Beuma

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U.S.G.S. NAVIGATION LOG

Ship Seusaurer Chief Scientist Hampton/BALINA

Cruise Locator $\frac{SS}{10} - \frac{2S}{7R} - \frac{40.6}{4RE^A}$ Affiliation $\frac{U S G S}{V S G S}$

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U.S.G.S. AVIGATION LOG

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Ship R/V Sea Sounder Chief Scientist Hampton Bown a

Cruise Locator S8 78 -WG

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U.S.G.S. 14 AVIGATION LOG

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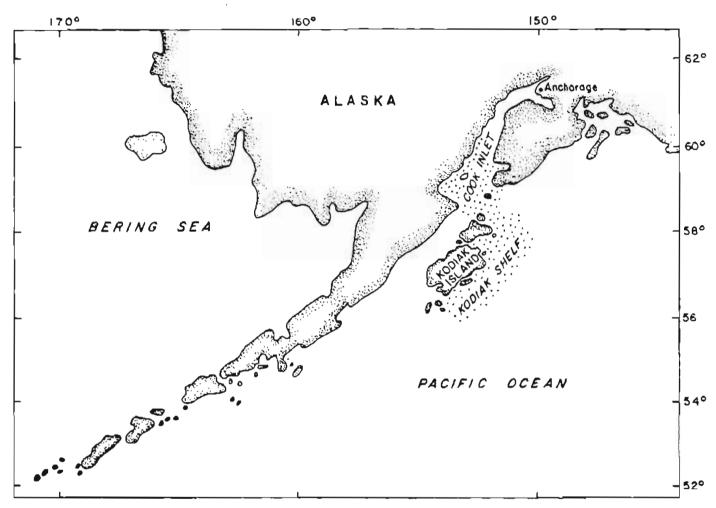


Figure 1.- Generalized location map of the study area

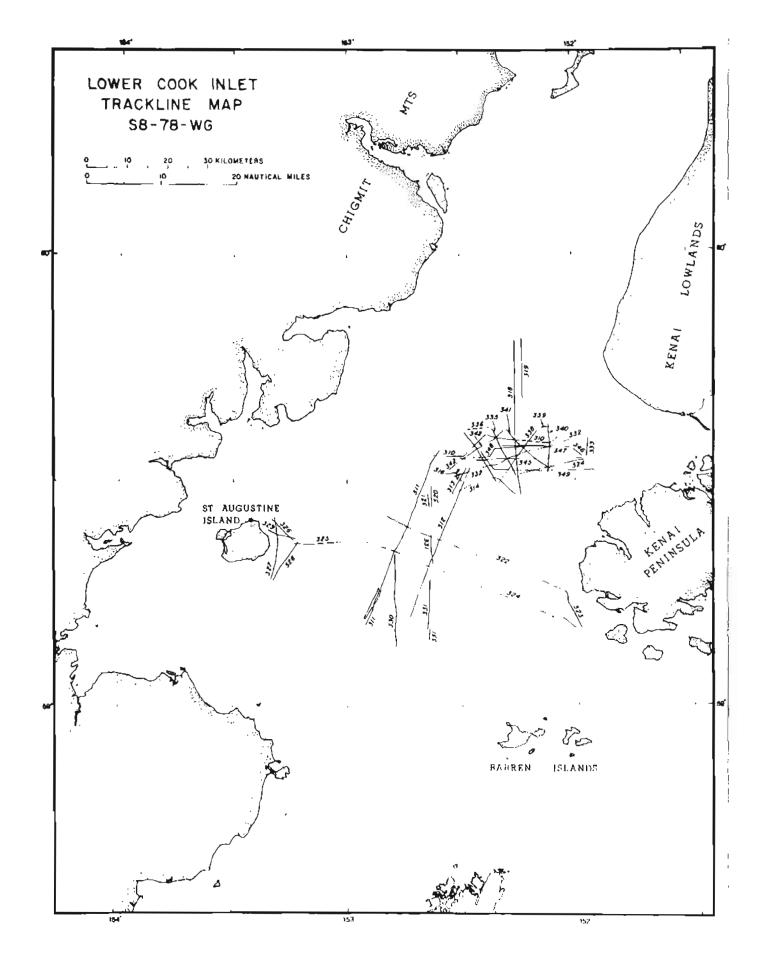
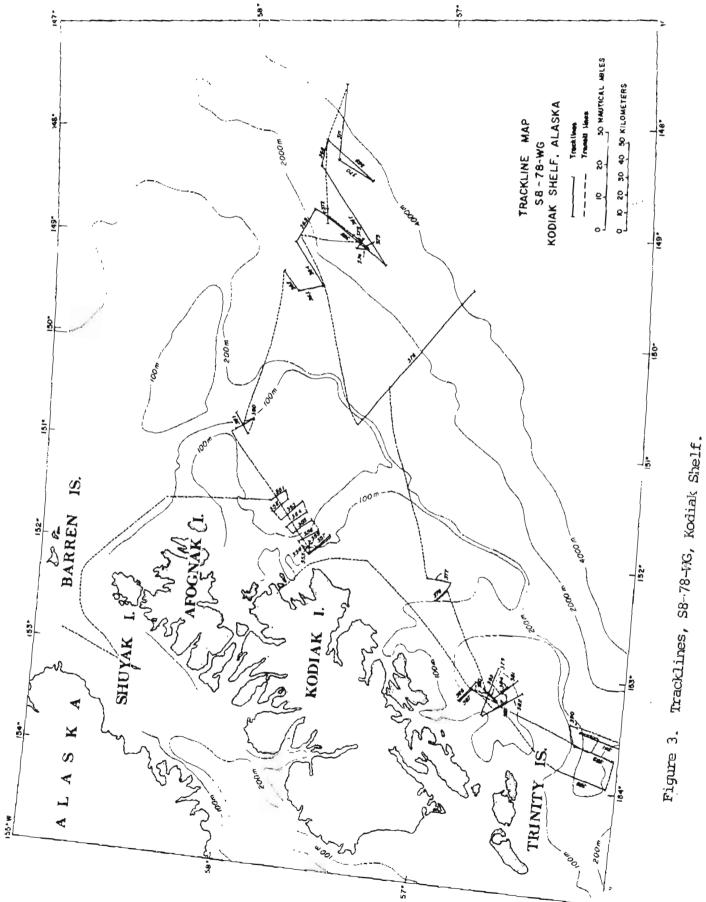


Figure 2. Tracklines, S8-78-WG, lower Cook Inlet



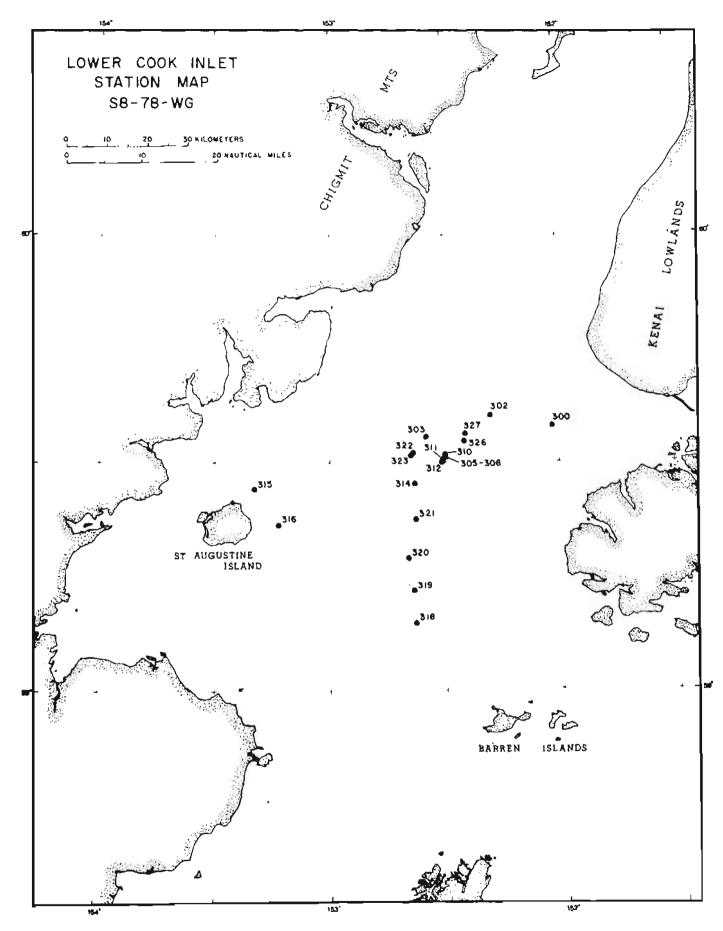


Figure 4. Station locations, S8-78-WG, lower Cook Inlet

