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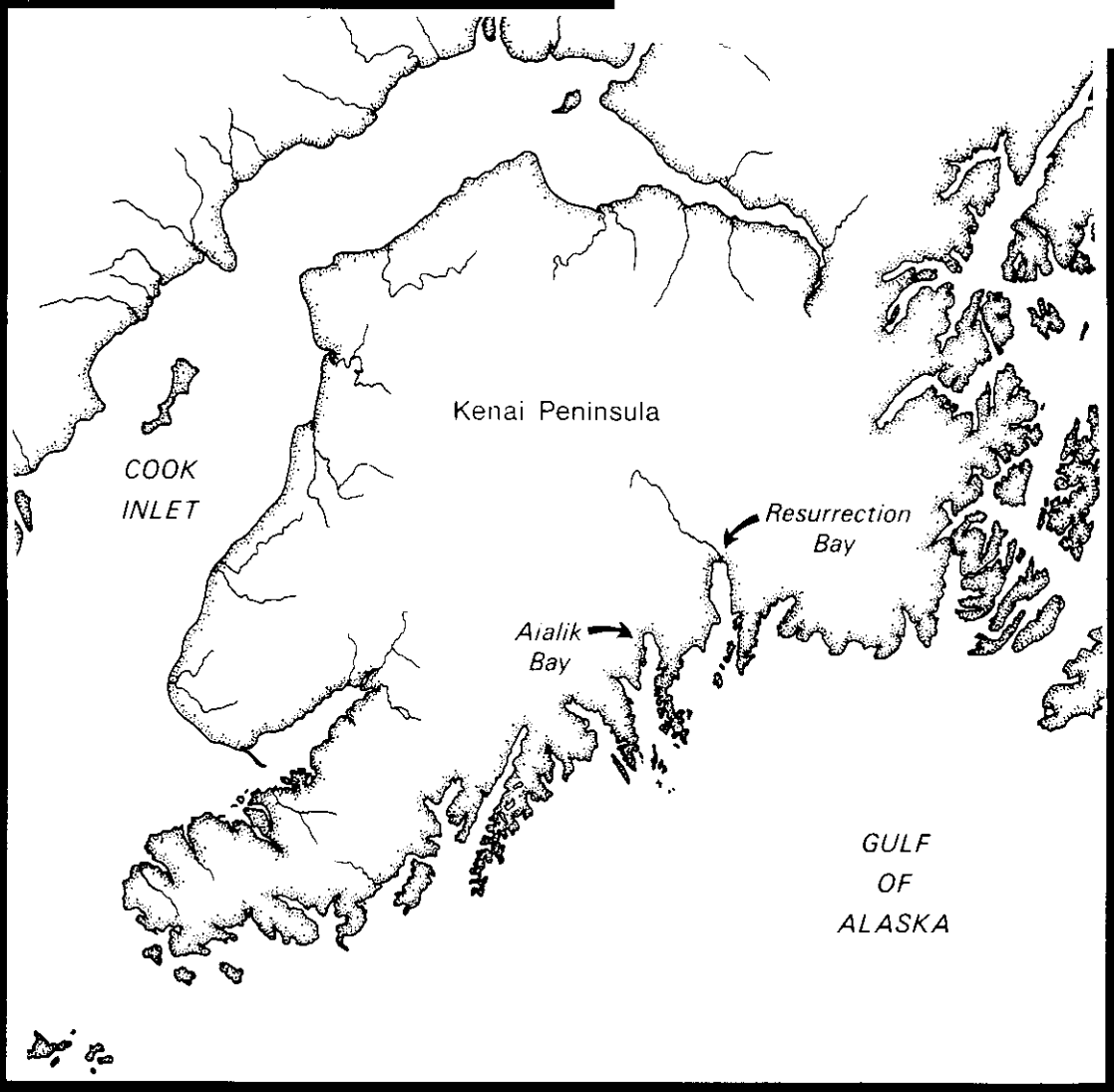

A Preliminary Survey of the Benthos of Resurrection Bay and Aialik Bay, Alaska

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Sea Grant Report 79-9
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INTRODUCTION

This report is a compilation of biological data collected in two adjacent south central Alaskan bays, Resurrection Bay and Aialik Bay (Figures 1, 2, and 3) aboard the R/V *Acona* in November 1977 and April 1978. The primary purpose of these cruises was to capture the snow crab, *(Chionoecetes bairdi)*, for Outer Continental Shelf Environmental Assessment Program (OCSEAP) studies. Information on distribution, abundance, and biology of other invertebrates and some fishes is presented in this report for the future reference of biologists working at the Seward Marine Laboratory situated at the head of Resurrection Bay. Data on physical and chemical oceanography collected on these cruises will be reported elsewhere.

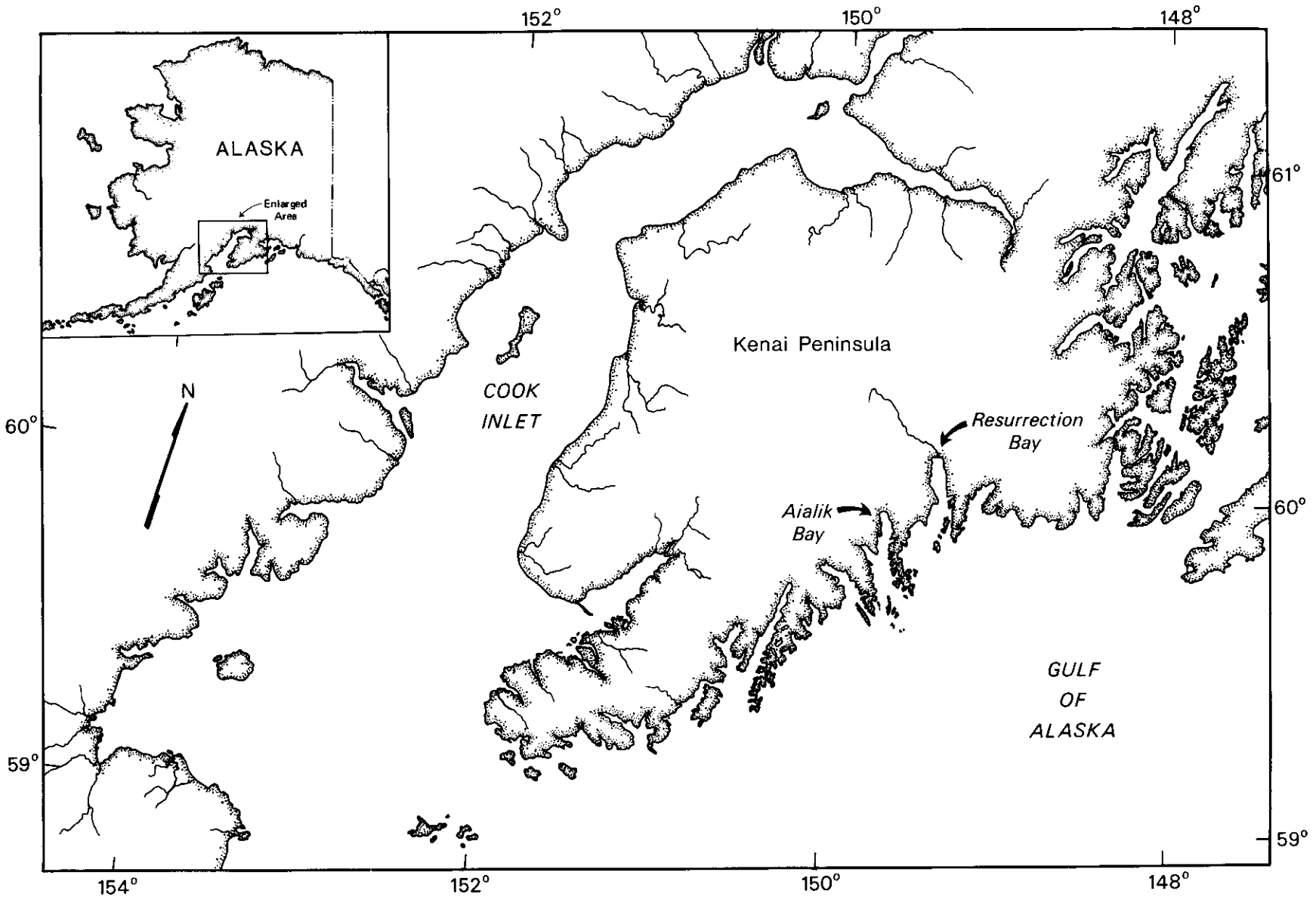

Figure 1. Map showing location of Resurrection and Aialik bays.

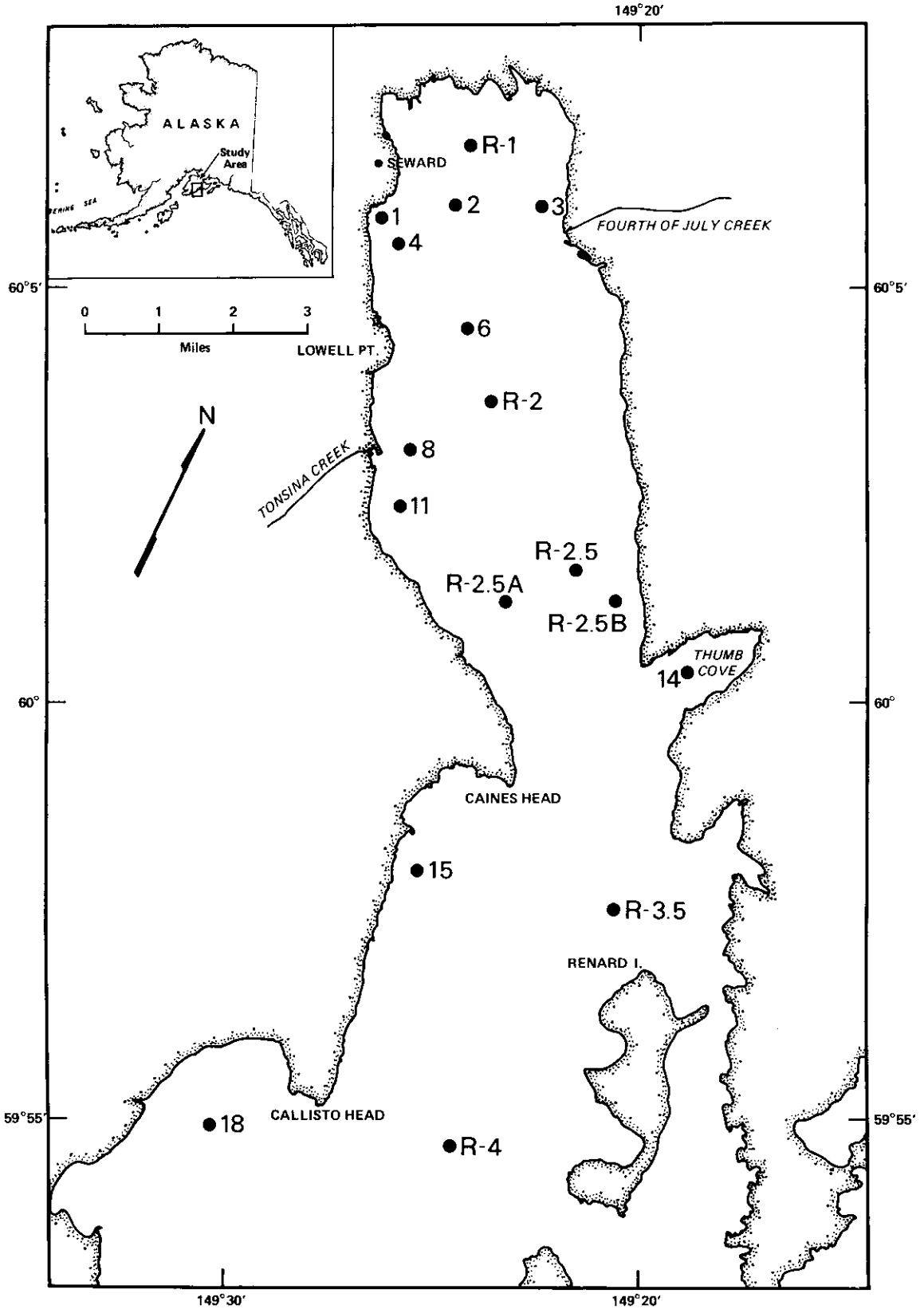

Figure 2. Station map of Resurrection Bay.

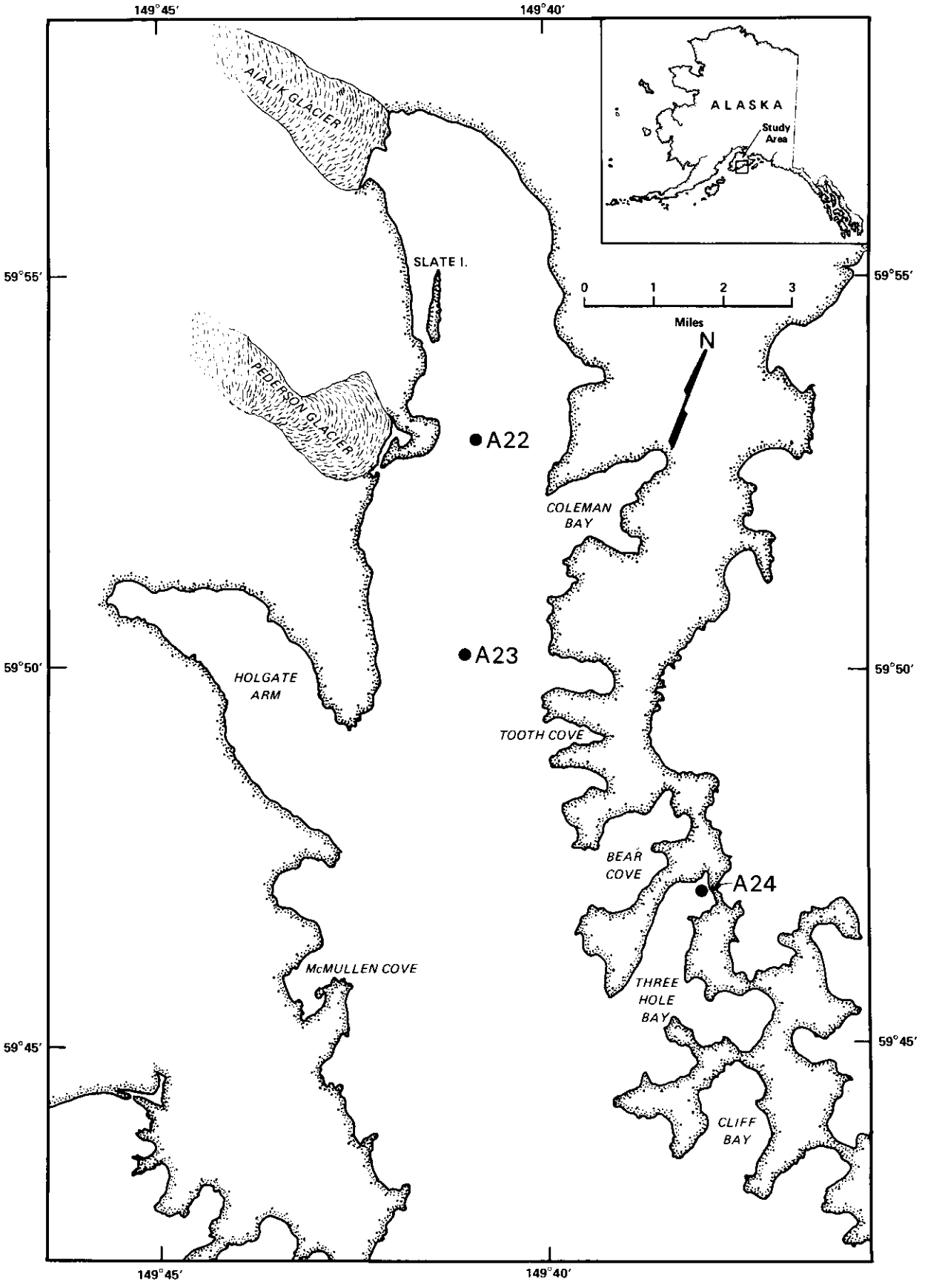

Figure 3. Station map of Aialik Bay.

METHODS

Epifaunal (from the sediment surface) collections were made using a small otter trawl with a 4 m (13 ft) mouth opening and a mesh size of 6.0 mm^2. Trawling time was 10 minutes; trawl speed was 3 to 4 knots. Depth was measured in meters (1 m = 3.28 ft). The following abbreviations appear in the tables presented in this report: M = male; F = female; we = with eggs; 0 we = none with eggs; x= mean; g = grams. Numbers included in the abundance column of each table refer to actual counts of a particualr species. The following measurements are included in the comments column of the tables: shell length for clams, carapace shell width for snow (*Chionoecetes bairdi*) and dungeness (*Cancer magister*) crabs, carapace length for shrimps (Pandalidae), and the mean standard length for fishes. All measurements are in millimeters (25 mm = 1 inch). Color of shrimp eggs are also included under comments. Infaunal (from below the sediment surface) samples were collected with a van Veen grab (area sampled per grab = 0.1 m^2). Formalin wet weight of all polychaetes are found in the comments column. A list of species referred to in this report is included in Table 1. Station maps appear in Figures 1, 2, and 3 for Resurrection and Aialik bays, respectively.

TABLE I. List of animals collected by trawl and grabs in Resurrection and Aialik bays on cruises of the R/V *Acona*.

Taxon	Common Name
PROTOZOA	
Foraminifera	no common name
PORIFERA	sponge
CNIDARIA	
Ptilosarcus gurneyi	sea pen
Madreporaria	coral
RHYNCHOCOELA (equals Nemertea)	ribbon worm
NEMATODA	round worm
ANNELIDA (Polychaeta)	bristle worm or polychaeta
Gattyana treadwelli (Polynoidae)[1]	scale worm
Polynoe sp. (Polynoidae)	scale worm
Polynoe canadensis (Polynoidae)	scale worm
Pholoe minuta (Sigalionidae)	scale worm
Phyllodoce sp. (Phyllodocidae)	no common name
Syllidae	no common name
Nereis sp. (Nereidae)	no common name
Nephtys punctata (Nephtyidae)	no common name
Nephtys sp. (Nephtyidae)	no common name
Glycera capitata (Glyceridae)	no common name
Glycinde picta (Goniadidae)	no common name
Goniada annulata (Goniadidae)	no common name
Onuphidae	no common name
Onuphis iridescens (Onuphidae)	no common name
Lumbrineridae	no common name
Lumbrineris heteropoda (Lumbrineridae)	no common name
Lumbrineris latreilli (Lumbrineridae)	no common name
Lumbrineris zonata (Lumbrineridae)	no common name
Lumbrineris sp. (Lumbrineridae)	no common name
Ninoe simpla (Lumbrineridae)	no common name
Ninoe gemmea (Lumbrineridae)	no common name
Haploscoloplos elongatus (Orbiniidae)	no common name
Aricidea sp. (Paraonidae)	no common name
Tauberia gracilis (Paraonis) (Paraonidae)	no common name
Laonice cirrata (Spionidae)	no common name
Polydora sp. (Spionidae)	no common name
Spiophanes kroyeri (Spionidae)	no common name
Spiophanes cirrata	no common name
Magelona longicornis (Magelonidae)	no common name
Magelona sp. (Magelonidae)	no common name
Spiochaetopterus costarum (Chaetopteridae)	no common name

TABLE I. Continued.

Taxon	Common Name
ANNELIDA (Cont'd)	
Spiochaetopterus sp. (Chaetopteridae)	no common name
Tharyx sp. (Cirratulidae)	no common name
Scalibregmidae	no common name
Scalibregma inflatum (Scalibregmidae)	no common name
Travesia forbesii (Opheliidae)	no common name
Sternaspis scutata (Sternaspidae)	no common name
Capitellidae	no common name
Heteromastus sp. (Capitellidae)	no common name
Maldanidae	bamboo worm
Asychis disparidentata (Maldanidae)	bamboo worm
Asychis sp. (Maldanidae)	bamboo worm
Praxillella gracilis (Maldanidae)	bamboo worm
Oweniidae	no common name
Myriochele heeri (Oweniidae)	no common name
Myriochele oculata (Oweniidae)	no common name
Myriochele sp. (oweniidae)	no common name
Ampharetidae	no common name
Ampharete sp. (Ampharetidae)	no common name
Amphicteis gunneri (Ampharetidae)	no common name
Amphicteis scaphobranchiata (Ampharetidae)	no common name
Amphicteis sp. (Ampharetidae)	no common name
Melinna cristata (Ampharetidae)	no common name
Melinna cf. *cristata* (Ampharetidae)	no common name
Anobothrus gracilis (Ampharetidae)	no common name
Pista cristata (Terebellidae)	no common name
Artacama proboscidea (Terebellidae)	no common name
Terebellides stroemii (Trichobranchidae)	no common name
Sabellidae	feather duster worm
Euchone sp. (Sabellidae)	feather duster worm
SIPUNCULA	
Golfingia vulgaris	peanut worm
Phascolion strombi	peanut worm
MOLLUSCA	
Gastropoda	no common name
Natica clausa	Arctic natica
Fusitriton oregonensis	Oregon or hairy triton
Buccinum plectrum	plectrum buccinum
Neptunea lyrata	common northwest neptune
Clione limacina	common clione
Chaetoderma robusta	no common name
Nucula tenuis	smooth nut clam
Nuculana fossa	fossa nut clam
Yoldia montereyensis	clam

TABLE I. Continued.

Taxon	Common Name
MOLLUSCA (Cont'd)	
Yoldia spp.	clam
Dacrydium vitrium	clam
Thyasiridae	clam
Thyasira flexuosa	flexuose cleft clam
Axinopsida serricata	silky axinopsis
Odontogena flexuosa	clam
Astarte esquimalti	clam
Macoma brota	brota macoma
Macoma sp.	clam
Psephidia ovalis	oval dwarf venus
Cardiomya planetica	cuspidaria
Dentalium sp.	tusk shell
ARTHROPODA (Crustacea)	
Ostracoda	musselor seed shrimp
Cumacea	no common name
Amphipoda	skeleton shrimp
Caprellidae	skeleton shrimp
Pandalus borealis	pink shrimp
Pandalus hypsinotus	coonstripe shrimp
Pandalus platyceros	spot shrimp
Pandalopsis dispar	side-stripe shrimp
Hippolytidae	shrimp, no common name
Crangon communis	grey shrimp
Argis sp.	shrimp, no common name
Pagurus aleuticus	hermit crab
Pagurus confragosus	hermit crab
Cancer magister	Dungeness crab
Chionoecetes bairdi	tanner or snow crab
Pinnixa occidentalis	pea crab
ECHINODERMATA	
Ctenodiscus crispatus	mud star
Pycnopodia helianthoides	sunflower star
Diamphiodia craterodmeta	brittle star
Strongyclocentrotus droebachiensis	green urchin
Brisaster townsendi	heart urchin
Molpadia oolitica[2]	sweet potato sea cucumber
CHORDATA (fishes)	
Raja rhina	longnose skate
Thaleichthys pacificus	eulachon
Microgadus proximus	tomcod
Theragra chalcogramma	walleye pollock
Lycodopsis pacifica	blackbelly eelpout

TABLE I. Continued.

Taxon	Common Name
Sebastes ruberrimus	yelloweye rockfish or red snapper
Anoplopoma fimbria	sablefish or black cod
Hexagrammos stelleri	whitespotted greenling
Cottidae	unidentified sculpin
Dasycottus setiger	spinyhead sculpin
Leptocottus armatus	pacific staghorn sculpin
Agonus acipenserinus	sturgeon poacher
Atheresthes stomias	arrowtooth flounder or false halibut
Glyptocephalus zachirus	rex sole
Hippoglossoides elassodon	flathead sole
Parophrys vetulus	English sole
Platichthys stellatus	starry flounder
Pleuronichthys decurrens	curlfin sole

[1]All names in parentheses for the Annelida represent Family designations.
[2]The distinction between *Molpadia oolitica* and *M. intermedia* is not clear; the two may be one species (D. L. Pawson, Smithsonian Inst. Pers. Comm.).

TABLE II. Resurrection Bay

Station:	R-1
Date:	11/28/77
Latitude:	60°06.5'
Longitude:	149°23.8'
Depth:	69 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
Ptilosarcus gurneyi	1	
ARTHROPODA (Crustacea)		
Cancer magister	1	M, 114 mm
Chionoecetes bairdi	2	M, 10 mm
ECHINODERMATA		
Molpadia oolitica	1	
CHORDATA (fishes)		
Theragra chalcogramma	22	$\bar{x}$ = 105 mm
Hexagrammos stelleri	2	$\bar{x}$ = 175 mm
Cottidae	3	$\bar{x}$ = 120 mm
Hippoglossoides elassodon	27	$\bar{x}$ = 180 mm
Platichthys stellatus	3	$\bar{x}$ = 220 mm
Pleuronichthys decurrens	5	$\bar{x}$ = 180 mm

TABLE III. Resurrection Bay

Station:	R-1
Date:	4/24/78
Latitude:	60°06.0'
Longitude:	149°23.4'
Depth:	34-60 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
ARTHROPODA (Crustacea)		
Pandalus borealis	41	0 we
P. hypsinotus	2	0 we
Chionoecetes bairdi	13	$\bar{x}$ = 43 mm
ECHINODERMATA		
Ctenodiscus crispatus	5	
CHORDATA (fishes)		
Lycodopsis pacifica	1	
Cottidae	2	

Accessory Data

Lycodopsis pacifica: mud and polychaetes in stomach
Pollutant: 1 beer bottle

TABLE IV. Resurrection Bay

Station:	1
Date:	11/28/77
Latitude:	60°05.7'
Longitude:	146°26.1'
Depth:	97 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
PORIFERA		
sponge	1	
CNIDARIA		
anemone	1	
ARTHROPODA (Crustacea)		
Pandalus borealis	5	4 we, blue-green
Argis sp.	2	2 we, blue-green
Chionoecetes bairdi	3	M, 10 mm, 75 mm, 75 mm
ECHINODERMATA		
Ctenodiscus crispatus	30	
CHORDATA (fishes)		
Raja rhina	1	260 mm
Theragra chalcogramma	1	150 mm
Lycodopsis pacifica	2	
Cottidae	2	
Leptocottus armatus	1	
Agonus acipenserinus	4	$\bar{x}$ = 108 mm
Pleuronichthys decurrens	4	$\bar{x}$ = 110 mm

TABLE V. Resurrection Bay

Station:	2
Date:	11/28/77
Latitude:	60°05.7'
Longitude:	149°24.0'
Depth:	174 m
Trawl time:	10 minutes (trawl not fishing properly)

Taxon or Common Name	Abundance	Comments
CHORDATA (fishes)		
Theragra chalcogramma	1	470 mm

TABLE VI. Resurrection Bay

Station:	3
Date:	11/28/77
Latitude:	60°05.7'
Longitude:	149°22.0'
Depth:	71 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
Ptilosarcus gurneyi	12	
anemone	2	
MOLLUSCA		
Natica clausa	1	
ARTHROPODA (Crustacea)		
Cancer magister	1	M, 60 mm
Chionoecetes bairdi	12	21-90 mm
ECHINODERMATA		
Ctenodiscus crispatus	2	
Pycnopodia helianthoides	2	
CHORDATA (fishes)		
Theragra chalcogramma	61	$\bar{x}$ = 185 mm
Sebastes ruberrimus	1	70 mm
Anoplopoma fimbria	15	$\bar{x}$ = 224 mm
Hexagrammos stelleri	1	175 mm
Leptocottus armatus	2	275, 281 mm
Hippoglossoides elassodon	33	$\bar{x}$ = 220 mm
Pleuronichthys decurrens	5	$\bar{x}$ = 215 mm

TABLE VII. Resurrection Bay

Station:	4
Date:	11/28/77
Latitude:	60°05.4'
Longitude:	149°25.5'
Depth:	91 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
MOLLUSCA		
Natica clausa	1	
ARTHROPODA (Crustacea)		
Pandalus borealis	1	
Pandalus platyceros	1	
Hyppolytidae	1	
Argis sp.	1	1 we, blue-green
Pagurus aleuticus	1	
Chionoecetes bairdi	6	
ECHINODERMATA		
Ctenodiscus crispatus	6	
CHORDATA (fishes)		
Microgadus proximus	1	220 mm
Theragra chalcogramma	27	$\bar{x}$ = 182 mm
Lycodopsis pacifica	3	$\bar{x}$ = 210 mm
Anoplopoma fimbria	1	215 mm
Atheresthes stomias	2	147 mm, 150 mm
Hippoglossoides elassodon	7	$\bar{x}$ = 270 mm

Accessory Data

Pollutant: soft drink can

TABLE VIII. Resurrection Bay

Station:	6
Date:	11/28/77
Latitude:	60°04.4'
Longitude:	149°24.0'
Depth:	68 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	1	
MOLLUSCA		
Buccinum plectrum	5	
Fusitriton oregonensis	1	
ARTHROPODA (Crustacea)		
Pandalus borealis	100	90 we, blue-green
Pandalopsis dispar	19	4 we, brown
Crangon communis	10	
Pagurus aleuticus	5	
P. confragosus	9	
Chionoecetes bairdi	25	20-60 mm
	1	M, 120 mm
ECHINODERMATA		
Ctenodiscus crispatus	1	
Brisaster townsendi	50	
CHORDATA (fishes)		
unidentified larval fishes	3	

TABLE IX. Resurrection Bay

Station:	8
Date:	11/28/77
Latitude:	60°03.0'
Longitude:	149°25.3'
Depth:	160 m
Trawl line:	10 minutes

Taxon or Common Name	Abundance	Comments
PORIFERA		
sponge	2	
CNIDARIA		
anemone	1	
MOLLUSCA		
Yoldia sp.	1	
Natica clausa	2	
Fusitriton oregonensis	1	
Buccinum plectrum	3	
Neptunea lyrata	2	
ARTHROPODA (Crustacea)		
Pandalus borealis	17	15 we, blue-green
Pandalopsis dispar	20	4 we, grey
Crangon communis	2	
Argis sp.	1	1 we, blue
Pagurus aleuticus	4	
Chionoecetes bairdi	1	35 mm
ECHINODERMATA		
Ctenodiscus crispatus	1000	
Brisaster townsendi	13	
CHORDATA (fishes)		
Theragra chalcogramma	2	20, 220 mm
Lycodopsis pacifica	2	235, 290 mm
Cottidae	1	
Agonus acipenserinus	1	

TABLE X. Resurrection Bay

Station:	R-2
Date:	11/28/77
Latitude:	60°03.5'
Longitude:	149°23.4'
Depth:	168 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
ARTHROPODA (Crustacea)		
Pandalus borealis	5	4 we
Pandalopsis dispar	5	
Crangon communis	1	
Chionoecetes bairdi	7	$\bar{x}$ = 110 mm 1 moulting - old carapace 42 mm, new carapace 45 mm
ECHINODERMATA		
Ctenodiscus crispatus	7	
Brisaster townsendi	7	

TABLE XI. Resurrection Bay

Station:	11
Date:	11/28/77
Latitude:	60°02.3'
Longitude:	149°25.5'
Depth:	200 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	1	
MOLLUSCA		
Fusitriton oregonensis	3	
ARTHROPODA (Crustacea)		
Pandalus borealis	2	2 we
Pandalopsis dispar	4	0 we
Paguridae	1	
Chionoecetes bairdi	16	$\bar{x}$ = 60 mm
ECHINODERMATA		
Ctenodiscus crispatus	400	
Brisaster townsendi	3	
CHORDATA (fishes)		
Theragra chalcogramma	1	300 mm
Hippoglossoides elassodon	1	

Accessory Data

Pollutant: 1 beer can

TABLE XII. Resurrection Bay

Station:	R-2.5
Date:	4/24/78
Latitude:	60°01.5'
Longitude:	149°21.5'
Depth:	285 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	4	
ARTHROPODA (Crustacea)		
Pandalus borealis	147	0 we, several new moults
Pandalopsis dispar	17	0 we
Crangon communis	23	0 we
Chionoecetes bairdi	63	$\bar{x}$ = 55 mm, all with new carapaces
ECHINODERMATA		
Ctenodiscus crispatus	12	
CHORDATA (fishes)		
Thaleichthys pacificus	3	170-190 mm
Theragra chalcogramma	2	105, 250 mm
Lycodopsis pacifica	2	267, 270 mm
Anoplopoma fimbria	1	290 mm

Accessory Data

Black cod: 1 *Thaleichthys* in stomach.
105 mm *Theragra*: hyperid amphipod in stomach.
Both *Lycodopsis*: mud and polychaetes in their stomachs.
Fucus, wood and leaves common in trawl.

TABLE XIII. Resurrection Bay

Station:	R-2.5
Date:	4/24/78
Latitude:	60°01.5'
Longitude:	149°21.5'
Depth:	285 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	7	
ARTHROPODA (Crustacea)		
Pandalus borealis	1300	0 we
Pandalopsis dispar	71	0 we
Crangon communis	31	0 we
Chionoecetes bairdi	115	$\bar{x}$ = 40 mm
CHORDATA (fishes)		
Thaleichthys pacificus	12	ripe gonads
Lycodopsis pacifica	4	267-301 mm
Sebastes ruberrimus	1	180 mm
Atheresthes stomias	1	

Accessory Data

Thaleichthys: stomachs all empty.
3 *Lycodopsis*: mud and polychaetes in stomachs.
Sebastes: stomach contained 1 *Crangon* sp.

TABLE XIV. Resurrection Bay

Station:	R-2.5A
Date:	11/28/77
Latitude:	60°01.2'
Longitude:	149°23.0'
Depth:	278 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	25	
MOLLUSCA		
Yoldia sp.	1	
ARTHROPODA (Crustacea)		
Pandalus borealis	400	200 we, blue
Pandalopsis dispar	200	48 we, yellow-green
Hippolytidae	30	
Crangon communis	25	
Pagurus aleuticus	2	
Chionoecetes bairdi	1	M, 105 mm
	75	M and F, <25 mm
CHORDATA (fishes)		
Theragra chalcogramma	11	100-320 mm, $\bar{x}$ = 270 mm
Lycodopsis pacifica	2	270, 400 mm
Anoplopoma fimbria	17	200-300 mm, $\bar{x}$ = 250 mm

TABLE XV. Resurrection Bay

Station:	R-2.5B
Date:	11/28/77
Latitude:	60°01.2'
Longitude:	149°20.6'
Depth:	275 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	6	
MOLLUSCA		
Nuculana fossa	1	
ARTHROPODA (Crustacea)		
Caprellid amphipod	1	
Pandalus borealis	500	many we, blue-green
Pandalopsis dispar	100	many we, green-brown
Hippolytidae	50	
Crangon communis	50	
Chionoecetes bairdi	1	M, 120 mm
	60	10 < 25 mm; 50 25-60 mm
CHORDATA (fishes)		
Theragra chalcogramma	4	290-350 mm
Lycodopsis pacifica	4	200-260 mm
Atheresthes stomias	1	255 mm
Parophrys vetulus	1	300 mm
Pleuronichthys decurrens	1	205 mm
unidentified larval fishes	6	

TABLE XVI. Resurrection Bay

Station:	15
Date:	11/28/77
Latitude:	59°58.0'
Longitude:	149°25.2'
Depth:	95 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	2	
ARTHROPODA (Crustacea)		
Pandalus borealis	25	17 we, blue-green
Pandalus hypsinotus	1	
Crangon communis	4	
Chionoecetes bairdi	7	4-10 mm
ECHINODERMATA		
Ctenodiscus crispatus	1	
Strongylocentrotus droebachiensis	1	
CHORDATA (fishes)		
Theragra chalcogramma	16	$\bar{x}$ = 104 mm
Agonus acipenserinus	2	
Atheresthes stomias	12	$\bar{x}$ = 160 mm
Glyptocephalus zachirus	2	
Hippoglossoides elassodon	1	
Pleuronichthys decurrens	1	

TABLE XVII. Resurrection Bay

Station:	R-4
Date:	11/29/77
Latitude:	59°54.7'
Longitude:	149°24.5'
Depth:	225 m
Trawl time:	10 minutes (trawl not fishing properly)

Taxon or Common Name	Abundance	Comments
CHORDATA (fishes)		
Theragra chalcogramma	3	100, 210, 290 mm
Agonus acipenserinus	1	220 mm

TABLE XVIII. Aialik Bay

Station:	A-22
Date:	12/1/77
Latitude:	59°52.9'
Longitude:	149°41.7'
Depth:	189 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
CNIDARIA		
anemone	4	
ARTHROPODA (Crustacea)		
Pandalus borealis	840	1 we, blue-green
Pandalus hypsinotus	19	1 we, turquoise, eyed
Pandalopsis dispar	26	3 we, brown-orange, eyed
Crangon communis	43	1 we, white
CHORDATA (fishes)		
Thaleichthys pacificus	1	200 mm
Theragra chalcogramma	1	130 mm
Lycodopsis pacifica	2	205, 220 mm
Dasycottus setiger	4	
Hippoglossoides elassodon	1	

TABLE XIX. Aialik Bay

Station:	A-23
Date:	12/1/77
Latitude:	59°50.2'
Longitude:	149°42.0'
Depth:	260 m
Trawl time:	10 minutes

Taxon or Common Name	Abundance	Comments
PORIFERA		
sponge	1	
CNIDARIA		
anemone	7	
MOLLUSCA		
Buccinum plectrum	1	
ARTHROPODA (Crustacea)		
Pandalus borealis	8	8 we
Pandalopsis dispar	13	9 we
Hippolytidae	2	
Crangon communis	7	
Chionoecetes bairdi	1	105 mm, we, brown-orange
	3	M, 10, 25, 150 mm
ECHINODERMATA		
Ctenodiscus crispatus	26	
Brisaster townsendi	3	
CHORDATA (fishes)		
Thaleichthys pacificus	1	200 mm
Theragra chalcogramma	1	310 mm
Cottidae	2	200 mm
Hippoglossoides elassodon	1	255 mm

TABLE XX. List of untrawlable stations in Resurrection Bay.

Station	Latitude	Longitude	Depth	Bottom
7	60°04.7'	149°21.0'	148 m	rocky
14	60°00.3'	149°19.0'	51 m	narrow
R-3.5	59°57.5'	149°20.7'	193 m	sill
18	59°55.0'	149°30.0'	139 m	rocky

TABLE XXI. Resurrection Bay

Station: R-1
Date: 11/28/77
Latitude: 60°06.5'
Longitude: 149°23.8'
Depth: 69 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
unid. polychaete	-	fragments
Gattyana treadwelli	2	0.023 g
Nephtys sp.	1	0.016 g
Lumbrineris sp.	1	0.003 g
Ninoe gemmea	1	0.016 g
Sternaspis scutata	2	0.133 g
Ampharetidae	4	0.006 g
Artacama proboscidea	1	0.036 g
MOLLUSCA		
Nuculana fossa	8	$\bar{x}$ = 4.3 mm
Yoldia montereyensis	1	1.6 mm
Thyasiridae	15	$\bar{x}$ = 2.0 mm
ARTHROPODA (Crustacea)		
Cumacea	10	
ECHINODERMATA		
Diamphiodia craterodmeta	4	
Grab 2		
ANNELIDA		
Syllidae	1	0.002 g
Nephtys sp.	1	0.130 g
Lumbrineris sp.	2	0.011 g
Lumbrineridae	1	0.002 g
Spiochaetopterus sp.	1	Fragment
Amphicteis sp.	1	0.032 g
MOLLUSCA		
Nuculana fossa	9	$\bar{x}$ = 2.6 mm
Yoldia montereyensis	2	$\bar{x}$ = 2.6 mm
Thyasiridae	8	$\bar{x}$ = 2.3 mm
Macoma spp.	2	$\bar{x}$ = 15.8 mm
Cardiomya planetica	1	8.3 mm

TABLE XXI. Continued.

Taxon or Common Name	Abundance	Comments
ARTHROPODA (Crustacea)		
Cumacea	5	
Amphipoda	4	
ECHINODERMATA		
Molpadia oolitica	2	

TABLE XXII. Resurrection Bay

Station:	1
Date:	11/28/77
Latitude:	60°05.7'
Longitude:	149°26.1'
Depth:	97 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
unid. polychaete	-	fragments
Nephtys sp.	1	0.018 g
Onuphis iridescens	1	0.004 g
Lumbrineris sp.	2	0.037 g
Myriochele sp.	1	0.002 g
MOLLUSCA		
Nuculana fossa	4	$\bar{x}$ = 2.6 mm
Axinopsida serricata	9	$\bar{x}$ = 2.1 mm
Odontogena borealis	1	2.0 mm
Psephidia ovalis	1	5.4 mm
Macoma brota	1	1.8 mm
Clione limacina	2	planktonic species - pteropod
ARTHROPODA (Crustacea)		
Cumacea	4	
ECHINODERMATA		
Diamphiodia craterodmeta	2	
Grab 2		
RHYNCHOCOELA (equals Nemertea)	-	fragments
ANNELIDA		
unid. polychaete	-	fragments
Nephtys punctata	2	0.022 g
Lumbrineridae	1	0.003 g
Ninoe gemmea	3	0.046 g
Sternaspis scutata	3	0.373 g
Terebellides stroemi	1	0.042 g

TABLE XXII. Coninued.

Taxon or Common Name	Abundance	Comments
MOLLUSCA		
Axinopsida serricata	3	$\bar{x}$ = 1.8 mm
Psephidia ovalis	1	4.2 mm
Dentalium sp.	1	
ARTHROPODA (Crustacea)		
Cumacea	6	
ECHINODERMATA		
Diamphiodia craterodmeta	1	

TABLE XXIII. Resurrection Bay

Station:	2
Date:	11/28/77
Latitude:	60°05.7'
Longitude:	149°24.0'
Depth:	174 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
unid. polychaete	-	fragments
Gattyana treadwelli	1	0.008 g
Polynoe sp.	1	0.003 g
Spiophanes cirrata	1	0.003 g
Tharyx sp.	-	fragments
Sternaspis scutata	4	0.165 g
MOLLUSCA		
Chaetoderma robusta	6	
Nuculana fossa	2	$\bar{x}$ = 3.8 mm
Yoldia montereyensis	1	9.8 mm
Thyasiridae	3	$\bar{x}$ = 2.2 mm
Macoma brota	1	4.8 mm
Dentalium sp.	2	
ARTHROPODA (Crustacea)		
Cumacea	4	
ECHINODERMATA		
Ctenodiscus crispatus	2	
Diamphiodia craterodmeta	1	
Grab 2		
ANNELIDA		
Ninoe gemmea	2	0.016 g
Spiophanes cirrata	2	0.006 g
Sternaspis scutata	4	0.151 g
MOLLUSCA		
Chaetoderma robusta	3	
Yoldia montereyensis	1	5.1 mm
Thyasiridae	1	3.3 mm
Odontogena borealis	4	$\bar{x}$ = 2.8 mm

TABLE XXIII. Continued.

Taxon or Common Name	Abundance	Comments
ARTHROPODA (Crustacea)		
Pinnixa occidentalis	2	
ECHINODERMATA		
Ctenodiscus crispatus	2	
Diamphiodia craterodmeta	1	

TABLE XXIV. Resurrection Bay

Station:	3
Date:	11/28/77
Latitude:	60°05.7'
Longitude:	149°22.0'
Depth:	71 m

Taxon or Common Name	Abundance	Comments
Grab 1		
PROTOZOA		
Foraminifera	2	
ANNELIDA		
Unid. polychaete	-	fragments
Polynoe canadensis	1	0.023 g
Syllidae	1	-
Nephtys sp.	2	0.018 g
Glycinde picta	1	0.024 g
Lumbrineris zonata	2	0.079 g
Ninoe gemmea	2	0.037 g
Scalibregma inflatum	1	0.006 g
Sternaspis scutata	2	0.113 g
Amphicteis scaphobranchiata	2	0.023 g
Melinna cristata	1	0.008 g
Anobothrus gracilus	1	0.003 g
MOLLUSCA		
Nuculana fossa	3	$\bar{x}$ = 1.9 mm
Yoldia montereyensis	1	1.9 mm
Axinopsida serricata	24	$\bar{x}$ = 2.0 mm
Macoma brota	4	$\bar{x}$ = 5.2 mm
Dentalium sp.	1	
ARTHROPODA (Crustacea)		
Cumacea	48	
Amphipoda	5	
ECHINODERMATA		
Diamphiodia craterodmeta	1	
Grab 2		
PROTOZOA		
Foraminifera	1	

TABLE XXIV. Continued.

Taxon or Common Name	Abundance	Comments
ANNELIDA		
Unid. Polychaete	-	fragments
Nephtys punctata	1	0.064 g
Nephtys sp.	3	0.100 g
Onuphis iridescens	-	fragments
Lumbrineridae	2	-
Ninoe gemmea	3	0.108 g
Sternaspis scutata	3	0.090 g
Amphicteis gunneri	1	0.096 g
Melinna cristata	2	0.016 g
Terebellides stroemii	1	0.019 g
MOLLUSCA		
Chaetoderma robusta	-	
Nucula tenuis	3	$\bar{x}$ = 1.7 mm
Axinopsida serricata	5	$\bar{x}$ = 2.1 mm
Macoma brota	1	34.4 mm
unidentified gastropods	4	
ARTHROPODA (Crustacea)		
Cumacea	14	
ECHINODERMATA		
Diamphiodia craterodmeta	2	

Accessory Data

Grab 1 contained several intact leech egg cases.

TABLE XXV. Resurrection Bay

Station:	4
Date:	11/28/77
Latitude:	60°05.4'
Longitude:	149°25.5'
Depth:	91 m

Taxon or Common Name	Abundance	Comments
Grab 1		
PROTOZOA		
Foraminifera	25	
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys punctata	5	0.219 g
Onuphis iridescens	2	0.155 g
Lumbrineris sp.	6	0.490 g
Ninoe gemmea	1	0.008 g
Pista cristata	1	0.015 g
Terebellides stroemii	4	0.040 g
Spiochaetopterus sp.	-	tubes only
MOLLUSCA		
Nucula tenuis	2	$\bar{x}$ = 2.2 mm
Nuculana fossa	6	$\bar{x}$ = 2.0 mm
Thyasiridae	11	$\bar{x}$ = 2.1 mm
Odontogena borealis	3	$\bar{x}$ = 1.8 mm
Dentalium sp.	1	
ARTHROPODA (Crustacea)		
Cumacea	3	
ECHINODERMATA		
Diamphiodia craterodmeta	1	
Grab 2		
PROTOZOA		
Foraminifera	9	
ANNELIDA		
Unid. polychaete	-	fragments
Nereis sp.	1	0.019 g
Nephtys punctata	1	0.126 g
Onuphis iridescens	1	0.100 g
Lumbrineris sp.	-	fragments
Ninoe gemmea	1	0.027 g
Aricidea sp.	1	0.010 g
Pista cristata	2	0.054 g

TABLE XXV. Continued.

Taxon or Common Name	Abundance	Comments
MOLLUSCA		
Chaetoderma robusta	1	0.002 g
Nuculana fossa	2	$\bar{x}$ = 2.3 mm
Yoldia montereyensis	1	3.1 mm
Thyasiridae	7	$\bar{x}$ = 1.9 mm
Thyasira flexuosa	1	6.0 mm
Odontogena borealis	1	1.7 mm
Dentalium sp.	3	
ARTHROPODA (Crustacea)		
Cumacea	1	
Pinnixa occidentalis	1	

Accessory Data

Grab 1 contained 1 unhatched leech egg case.

TABLE XXVI. Resurrection Bay

Station:	6
Date:	11/28/77
Latitude:	60°04.4'
Longitude:	149°24.0'
Depth:	228 m

Taxon or Common Name	Abundance	Comments
Grab 1		
RHYNCHOCOELA (equals Nemertea)	-	fragments
ANNELIDA		
Nephtys punctata	1	0.120 g
Ninoe gemmea	1	0.032 g
Spiophanes kroyeri	2	0.015 g
Sternaspis scutata	4	0.101 g
MOLLUSCA		
Nuculana fossa	5	$\bar{x}$ = 4.1 mm
Yoldia montereyensis	1	4.8 mm
Dentalium sp.	2	
ARTHROPODA (Crustacea)		
Pinnixa occidentalis	1	
ECHINODERMATA		
Ctenodiscus crispatus	2	
Brisaster townsendi	1	
Grab 2		
ANNELIDA		
Unid. polychaete	-	fragments
Onuphidae	-	fragments
Nephtys punctata	1	0.012 g
Lumbrineridae	1	0.018 g
Spiophanes kroyeri	1	0.005 g
Spiochaetopterus costarum	1	0.008 g
Sternaspis scutata	3	0.116 g
Oweniidae	-	fragments
Anobothrus gracilis	1	0.025 g
MOLLUSCA		
Nucula tenuis	1	2.0 mm
Nuculana fossa	8	$\bar{x}$ = 2.6 mm
Yoldia montereyensis	4	$\bar{x}$ = 2.3 mm
Dentalium sp.	1	
ARTHROPODA (Crustacea)		
Cumacea	1	

TABLE XXVII. Resurrection Bay

Station:	8
Date:	11/28/77
Latitude:	60°03.0'
Longitude:	149°29.3'
Depth:	160 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys punctata	1	0.048 g
Ninoe gemmea	1	0.011 g
Myriochele heeri	1	0.003 g
Pista cristata	1	0.050 g
MOLLUSCA		
Chaetoderma robusta	1	
Nuculana fossa	1	12.1 mm
Odontogena borealis	2	$\bar{x}$ = 2.1 mm
ARTHROPODA (Crustacea)		
Pinnixa occidentalis	1	
ECHINODERMATA		
Ctenodiscus crispatus	1	
Grab 2		
ANNELIDA		
Lumbrineris sp.	1	0.004 g
Aricidea sp.	1	0.019 g
Praxillella gracilis	-	fragments
MOLLUSCA		
Odontogena borealis	1	1.6 mm
ECHINODERMATA		
Molpadia oolitica	2	

TABLE XXVIII. Resurrection Bay

Station:	R-2
Date:	11/29/77
Latitude:	60°03.5'
Longitude:	149°23.4'
Depth:	168 m

Taxon or Common Name	Abundance	Comments
ANNELIDA	several	not examined
MOLLUSCA		
Yoldia montereyensis	1	4.8 mm
Thyasiridae	1	2.0 mm
Odontogena borealis	1	2.0 mm
Dentalium sp.	1	
ARTHROPODA (Crustacea)		
Cumacea	2	

TABLE XXIX. Resurrection Bay

Station:	11
Date:	11/28/77
Latitude:	60°02.3'
Longitude:	149°25.5'
Depth:	200 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
Lumbrineris sp.	1	0.001 g
Spiophanes kroyeri	1	0.005 g
Spiochaetopterus costarum	-	fragments
Scalibregmidae	1	fragments
Myriochele sp.	-	fragments
MOLLUSCA		
Yoldia montereyensis	1	12.0 mm
Dentalium sp.	1	
ECHINODERMATA		
Ctenodiscus crispatus	3	
Grab 2		
PROTOZOA		
Foraminifera	1	
ANNELIDA		
Nephtys punctata	1	0.020 g
Goniada maculata	3	0.083 g
Lumbrineris sp.	1	0.015 g
Spiophanes kroyeri	3	0.021 g
Spiochaetopterus costarum	-	fragments
Sternaspis scutata	2	0.142 g
MOLLUSCA		
Chaetoderma robusta	1	
Nucula tenuis	2	$\bar{x}$ = 2.2 mm
Nuculana fossa	10	$\bar{x}$ = 3.0 mm
Yoldia montereyensis	2	$\bar{x}$ = 3.2 mm
Psephidia ovalis	1	3.6 mm
Dentalium sp.	3	
ARTHROPODA (Crustacea)		
Cumacea	5	
Pinnixa occidentalis	1	
ECHINODERMATA		
Molpadia oolitica	1	

TABLE XXX. Resurrection Bay

Station:	R-2.5B
Date:	11/29/77
Latitude:	60°01.2'
Longitude:	149°20.6'
Depth:	275 m

Taxon or Common Name	Abundance	Comments
Grab 1		
RHYNCHOCOELA (equals Nemertea)	-	fragments
ANNELIDA		
Nephtys sp.	1	0.003 g
Sternaspis scutata	1	0.085 g
MOLLUSCA		
Nucula tenuis	1	1.7 mm
Nuculana fossa	2	$\bar{x}$ = 2.6 mm
Macoma brota	1	3.1 mm
Dentalium sp.	1	
Grab 2		
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys sp.	1	-
Goniada annulata	1	0.040 g
Unid. Lumbrineridae	1	0.009 g
Lumbrineris sp.	1	fragment
MOLLUSCA		
Nucula tenuis	1	1.6 mm
Nuculana fossa	12	$\bar{x}$ = 2.4 mm
Yoldia montereyensis	3	$\bar{x}$ = 2.1 mm
Odontogena borealis	1	2.4 mm
Dentalium sp.	1	
ARTHROPODA (Crustacea)		
Amphipoda	1	

TABLE XXXI. Resurrection Bay

Station:	14
Date:	11/29/77
Latitude:	59°00.3'
Longitude:	149°10.0'
Depth:	51 m

Taxon or Common Name	Abundance	Comments
Grab 1		
PROTOZOA		
Foraminifera	8	
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys punctata	2	0.070 g
Lumbrineris heteropoda	1	2.862 g
Ninoe gemmea	2	0.115 g
Spiophanes kroyeri	1	0.011 g
Scalibregma inflatum	1	0.020 g
Asychis sp.	1	0.049 g
Myriochele heeri	10	0.034 g
Myriochele oculata	34	0.356 g
SIPUNCULA		
Golgingia vulgaris	48	0.354 g
MOLLUSCA		
Nuculana fossa	1	1.9 mm
Astarte esquimalti	1	1.4 mm
Thyasiridae	13	$\bar{x}$ = 1.7 mm
Odontogena borealis	2	$\bar{x}$ = 2.8 mm
Psephidia ovalis	2	$\bar{x}$ = 2.6 mm
Dentalium sp.	3	
ARTHROPODA (Crustacea)		
Cumacea	1	
Amphipoda	13	
ECHINODERMATA		
Diamphiodia craterodmeta	3	
Unid. sea star	1	arm radius = 1.2 mm
Grab 2		
PROTOZOA		
Foraminifera	2	
CNIDARIA		
Ptilosarcus gurneyi	1	

TABLE XXXI. Continued.

Taxon or Common Name	Abundance	Comments
RHYNCHOCOELA (equals Nemertea)	-	fragments
ANNELIDA		
Unid. polychaete	fragments	0.078 g
Pholoe minuta	1	0.001 g
Syllidae	1	0.004 g
Nephtys punctata	1	0.041 g
Nephtys sp.	1	0.005 g
Onuphis iridescens	1	0.007 g
Lumbrineris latreilli	1	0.007 g
Lumbrineris sp.	1	0.001 g
Ninoe gemmea	1	0.003 g
Haploscoloplos elongatus	1	0.001 g
Aricidea sp.	2	0.015 g
Megalona longicornis	5	0.011 g
Travesia forbesii	2	0.080 g
Capitellidae	1	0.012 g
Asychis disparidentata	1	0.134 g
Praxillella gracilis	1	0.064 g
Myriochele sp.	1	0.003 g
Ampharete sp.	2	0.006 g
Terebellides stroemii	1	0.037 g
Sabellidae	1	-
Euchone sp.	1	0.004 g
SIPUNCULA		
Golfingia vulgaris	2	0.024 g
Phascolion strombi	8	0.032 g
MOLLUSCA		
Nucula tenuis	1	1.5 mm
Thyasiridae	11	$\bar{x}$ = 1.6 mm
Odontogena borealis	6	$\bar{x}$ = 2.5 mm
Psephidia ovalis	1	2.9 mm
Macoma brota	4	$\bar{x}$ = 2.0 mm
Dentalium sp.	2	
ARTHROPODA (Crustacea)		
Amphipoda	21	
ECHINODERMATA		
Diamphiodia craterodmeta	4	

Accesory Data

Many *Spiochaetopterus* tubes.

TABLE XXXII. Resurrection Bay

Station:	15
Date:	11/29/77
Latitude:	59°58.0'
Longitude:	149°25.2'
Depth:	95 m

Taxon or Common Name	Abundance	Comments
Grab 1		
PROTOZOA		
Foraminifera	50	
RHYNCHOCOELA (equals Nemertea)	-	fragments
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys punctata	1	0.028 g
Nephtys sp.	2	0.004 g
Nothria iridescens	2	0.005 g
Lumbrineris zonata	4	0.100 g
Laonice cirrata	1	0.002 g
Magelona sp.	-	fragments
Maldanidae	1	0.008 g
Myriochele oculata	1	0.072 g
Pista cristata	1	0.002 g
Terebellides stroemi	4	0.100 g
MOLLUSCA		
Chaetoderma robusta	2	
Nucula tenuis	2	$\bar{x}$ = 2.4 mm
Nuculana fossa	3	$\bar{x}$ = 2.6 mm
Thyasiridae	35	$\bar{x}$ = 1.2 mm
Odontogena borealis	8	$\bar{x}$ = 2.0 mm
Macoma brota	1	1.6 mm
Dentalium sp.	1	
Clione limacina	1	planktonic species - pteropod
ARTHROPODA (Crustacea)		
Cumacea	2	
Amphipoda	2	
ECHINODERMATA		
Ctenodiscus crispatus		
Molpadia oolitica	1	
Grab 2		
PROTOZOA		
Foraminifera	17	

TABLE XXXII. Continued.

Taxon or Common Name	Abundance	Comments
CNIDARIA		
Madreporaria	1	
ANNELIDA		
Unid. polychaete	-	0.082 g
Phyllodoce sp.	1	0.003 g
Glycera capitata	1	0.021 g
Onuphis iridescens	1	0.011 g
Lumbrineris sp.	4	0.025 g
Ninoe gemmea	2	0.013 g
Laonice cirrata	1	0.028 g
Spiochaetopterus costarum	1	0.009 g
Scalibregma inflatum	1	fragment
Travesia forbesii	1	0.034 g
Sternaspis scutata	1	0.004 g
Maldanidae	1	fragment
Myriochele heeri	1	0.004 g
Terrebellides stroemi	2	0.086 g
MOLLUSCA		
Nucula tenuis	2	$\bar{x}$ = 2.0 mm
Nuculana fossa	2	$\bar{x}$ = 2.2 mm
Dacrydium vitrium	1	2.7 mm
Thyasiridae	17	$\bar{x}$ = 1.6 mm
Odontogena borealis	5	$\bar{x}$ = 2.3 mm
Macoma brota	1	2.9 mm
Cardiomya planetica	1	10.8 mm
Gastropoda	1	
Dentalium sp.	3	
ARTHROPODA (Crustacea)		
Ostracoda	1	
Cumacea	1	
Amphipoda	4	
ECHINODERMATA		
Diamphiodia craterodmeta	4	

TABLE XXXIII. Resurrection Bay

Station:	R-4
Date:	11/29/77
Latitude:	59°54.7'
Longitude:	149°24.5'
Depth:	225 m

Taxon or Common Name	Abundance	Comments
Grab 1		
CNIDARIA		
Ptilosarcus gurneyi	1	
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys punctata	1	0.009 g
Lumbrineris sp.	-	fragments
Spiochaetopterus costarum	3	0.121 g
Sternaspis scutata	3	0.111 g
Praxillella gracilis	1	0.058 g
Unid. Oweniidae	-	fragments
Terebellides stroemii	1	0.059 g
MOLLUSCA		
Nucula tenuis	1	2.9 mm
Nuculana fossa	8	$\bar{x}$ = 2.6 mm
Thyasiridae	1	1.5 mm
Dentalium sp.	2	
ARTHROPODA (Crustacea)		
Cumacea	1	
Amphipoda	1	
ECHINODERMATA		
Diamphiodia craterodmeta	2	
Grab 2		
CNIDARIA		
Ptilosarcus gurneyi	1	
ANNELIDA		
Lumbrineris sp.	1	0.004 g
Sternaspis scutata	3	0.065 g
Maldanidae	-	fragment

TABLE XXXIII. Continued.

Taxon or Common Name	Abundance	Comments
MOLLUSCA		
Nuculana fossa	14	$\bar{x}$ = 3.4 mm
Dentalium sp.	2	
ECHINODERMATA		
Molpadia oolitica	1	length = 6.4 mm

TABLE XXXIV. Resurrection Bay

Station:	18
Date:	11/29/77
Latitude:	59°55.0'
Longitude:	149°30.0'
Depth:	139 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys sp.	1	0.017 g
Tauberia gracilis	1	-
Capitellidae	2	0.045 g
MOLLUSCA		
Nuculana fossa	9	$\bar{x}$ = 7.8 mm
Thyasiridae	5	$\bar{x}$ = 2.0 mm
Grab 2		
ANNELIDA		
Unid. polychaete	-	fragments
Nephtys sp.	-	fragments
MOLLUSCA		
Nuculana fossa	28	$\bar{x}$ = 4.6 mm
Yoldia montereyensis	3	$\bar{x}$ = 2.6 mm
Axinopsida serricata	6	$\bar{x}$ = 2.4 mm
Macoma brota	1	3.3 mm
Dentalium sp.	1	

TABLE XXXV. Aialik Bay

Station:	A-22
Date:	12/1/77
Latitude:	59°52.9'
Longitude:	149°41.7'
Depth:	189 m

Taxon or Common Name	Abundance	Comments
Grab 1		
ANNELIDA		
Unid. polychaete	-	fragments
Melinna cristata	-	-

TABLE XXXVI. Aialik Bay

Station:	A-24
Date:	12/2/77
Latitude:	59°47.1'
Longitude:	149°36.0'
Depth:	51 m

Taxon or Common Name	Abundance	Comments
MOLLUSCA		
Nuculana fossa	2	$\bar{x}$ = 11.7 mm
Yoldia myalis	1	15.7 mm
Compsomyax subdiaphana	1	49.6 mm
Dentalium sp.	3	
ECHINODERMATA		
Diamphiodia craterodmeta	1	

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