NOTICE !

All depths add 2 fathoms

Copies

OTTER TRAWL

Cruise # 32

M/V Tordenskjold

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
TORDENSKJOLD	32	7/18/57

DRAG NO.	GEOG. REF.	DEPTH RANGE
1	Unga Strait	75 fath.

POSITION:	Loran	Latitude	Longitude
Start	Radar	55° 26.4	160° 28.8
End		Same	Same

COURSE 270°	SEA Slight So. Chop	Start Net Out 0930	Cable All Out 0950
SCOPE 225	SWELL ✓	Net All In 1020	Start Cable In 0955
SPEED ✓	TIDE ✓	TOTAL TIME FISHED: 5 min	
WEATHER Rain	SURFACE TEMP. 50°	GEAR FISHED HOW? —	
WIND Sky 10-15	BOTTOM TEMP. ✓	INDICATE TROUBLE Mudding (see below)	
AIR TEMP. 54°	GEAR USED: 400 mesh Eastern Trawl with 1¼" bag liner		
BARO-METER 30.05			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding..✓
- Abrasive..
- Other:

REMARKS: Bottom Type Green Mud

As guests we had Monte Clemmons & Earl Hutchins (USFWS Management) aboard, as the drag today was made for crab pot bait.

Extra cable was played out on this first haul to clear the drum of the loose cable that had been newly oiled. This area was suggested as good for bait fish by a resident fisherman (Captain of Alesco II). Bottom clear but gear probably settled in mud due to fact of the extra cable. HCJ

ESTIMATED TOTAL CATCH: None

SPLITS

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.

SHRIMP:	POUNDS	NO./POUND

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 7/18/57	ESTIMATED TOTAL CATCH 500 lbs
DRAG NO. 2	GEOG. REF. Unga Strait	DEPTH RANGE	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°27.25'	160°28.9
End		55°27.9'	160°34.0

COURSE 280° Madegoo 265	SEA So Chop	Start Net Out 1025	Cable All Out 1032
SCOPE 200 fath	SWELL ✓	Net All In 1155	Start Cable In 1132
SPEED 3 K	TIDE ✓	TOTAL TIME FISHED: 1 hr	
WEATHER Rain	SURFACE TEMP. 50°	GEAR FISHED HOW? OK	
WIND Sly 12-15	BOTTOM TEMP. ✓	INDICATE TROUBLE None	
AIR TEMP. 54°	GEAR USED: 400 Eastern Trawl with 1½" liner		
BARO-METER 30.04			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: 1 Bottom Type Green Mud

Froze three samples of shrimp one each; random, pink & side stripe Lots of shrimp in wings when hauling

Indications are for good concentration of shrimp

King crab measurements, 9½", 8" 8¾" 9½" 7⅜" 8½" - 8"

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		15	40 Bait
Halibut	1	31 inches 8 lbs	100
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"		10	10 Bait
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		15	10 Bait
Sculpin		70	bait
Eelpout		10	"

SHRIMP:	POUNDS	NO./POUND
Pink	190	100-125
Side Stripe	80	90-100
Spot	4-5	15-18

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Various Lipards		10	Bait
Eulachon Silver Smelt		5	"
~~Dogfish~~ Sea Poacher		3 (count)	"
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm. ♂	L. ♂	lbs. L.
King			5 10 2 N	50
Korean Horse				1 count
Tanner				11 count
Total			7	

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE	ESTIMATED TOTAL CATCH	SPLITS
Tordenskjold	32	7/18/57	1200 to 1300 lbs	None

DRAG NO.	GEOG. REF.	DEPTH RANGE
3	Balboa Bay	48-58

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°28.95	160° 36.6
End		55° 31.35	160° 37.2

COURSE 325° Made Good 334°	SEA So Chop	Start Net Out 1230	Cable All Out 1240
SCOPE 150	SWELL S. slight	Net All In 1405	Start Cable In 1340
SPEED 2.4K	TIDE ✓	TOTAL TIME FISHED: 1 hour	
WEATHER Rain	SURFACE TEMP. 50°	GEAR FISHED HOW? O.K.	
WIND So 15-18	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 57	GEAR USED: 400 mesh Eastern with 1½" liner		
BAROMETER 30.02			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: 1 Bottom Type Br. Mud

Froze one random sample shrimp

The King crabs were 4 hard ♀ & 3 semi soft (N); the female bore eggs

Out of this haul we delivered 530 pounds of shrimp to Aleutian Cold Storage who in turn distributed to the local residents & boats.

~~on the~~ King Crab Large ♂ 4 hard shell (H) & 3 semi soft or New Shell (N)

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	✓	100 Mostly juveniles	05
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex Rock "sole"	✓		
Slender "sole"			
Sand dab			
Sand "sole"	✓		
Starry Flounder			
Turbot		50	Mostly Small
Sculpin		200	Bad

SHRIMP:	POUNDS	NO./POUND
Pink	670	100-125
Spots	30	40-50
Side Stripe	Trace	
Coon Stripe	Trace	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	7	30	90
Hake	10	40	Adult
~~Lingcod~~ Eulachon		5	100%
Pollock		10	
Sablefish (black cod)			
Herring	11	9-9½"	
Misc Liparids		20	
~~Dogfish~~ eelpout		10	Bait
Ratfish			
Skate			
ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	1		7	60
Tanner				84 Count

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/21/57	ESTIMATED TOTAL CATCH 1200
DRAG NO. 4	GEOG. REF. 8 Miles Sollunga Cape	DEPTH RANGE 64-76	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°59.6'	160°29.5'
End	~~Dead Reckoning~~	55°01.8	160°29.5'

COURSE 344 Westerly	SEA 3ft Wrly	Start Net Out 0850	Cable All Out 0900
SCOPE 175	SWELL Low WSW	Net All In 1035	Start Cable In 1000
SPEED 2.2K	TIDE —	TOTAL TIME FISHED: 1 hr	
WEATHER Clear	SURFACE TEMP. 49°	GEAR FISHED HOW? OK	
WIND WNW 5 to 12K	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 54°	GEAR USED: 400 Mesh Eastern Trawl with a 1/2 bag liner		
BAROMETER 30.12			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Green Type Mud & Sand

All King crab hard shell ♂ all tagged & released, except the small male released untagged. All crab (King) in good condition.

Measurements in width (5) 232 mm, 226, 226, 230, 236.

OBSERVER HC

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		40	10
Halibut	4	18	30
Lemon "sole"			
Petrale "sole"			
Rex Rock "sole"		50	50
Slender "sole"			
Sand dab		60	—
Sand "sole"		40	20
Starry Flounder			
Turbot		60	—
Misc. Sm. Fish		100	—

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	9	30	-0-
Hake			
Lingcod			
Pollock		50	-0-
Sablefish (black cod)			
Various Liparid		30	—
Eelpout		40	—
~~Dogfish~~ Various Sculpins	76	230	—
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
Red Snapper	2	5	—

SHRIMP:	POUNDS	NO./POUND
Pink } Sidestripe }	240	Sample frozen
Est. 20% of total		

CRAB:	♀	Sm. ♂	L. ♂	lbs. L.
King		1	5	55
Tanner	79	total count		

OTHER FISH Whitefish 34"

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/21/57	ESTIMATED TOTAL CATCH: 20-22 pounds
DRAG NO. 5	GEOG. REF. South of Cape Ulitga	DEPTH RANGE 40-43	SPLITS: None

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°02.7	160°32.0'
End		55°02.2	160°32.0

COURSE 164°	SEA Mod W chop	Start Net Out 1110	Cable All Out 1127
SCOPE 150	SWELL Mod W	Net All In 1210	Start Cable In 1145
SPEED	TIDE ✓	TOTAL TIME FISHED: 18 min	
WEATHER Clear	SURFACE TEMP. 49	GEAR FISHED HOW?	
WIND Fresh 24 SW 10-12	BOTTOM TEMP. —	INDICATE TROUBLE Hung Up	
AIR TEMP. 54°	GEAR USED: 400 Eastern Trawl with 1½" liner		
BAROMETER 30.10			

HAZARDS:
None.....
Snag.....
Torn web...
Mudding....
Abrasive..
Other:

REMARKS: Bottom Type: Green Mud & Sand

No damage to net.
Some basket stars hanging in the wings & distributed through the net.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex Rock "sole"	2	1	—
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	4	22	—
Sculpin	22	10	
Eelpout	4	1	—

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Ling			
Lingcod			
Pollock	25	15	—
Sablefish (black cod)			
Kelp Greenling	2	4	—
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
None			

SHRIMP:	POUNDS	NO./POUND
Pink	2	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
None				

OTHER FISH: 1 sea cucumber

OTHER INVERTEBRATES: Few 5-rayed starfish; 6 sea urchins

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
Jordensskjold	32	7/21/5

DRAG NO.	GEOG. REF.	DEPTH RANGE
6	South of Ungalaska	60-66

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°08'	160°32'
End		54°58.3'	160°32.2

COURSE 164° Morgan 165°	SEA Mod Wind Chop	Start Net Out 1325	Cable All Out 1330
SCOPE 175	SWELL INCREASE Low SW-Mod	Net All In	Start Cable In 1430
SPEED 2.5	TIDE ✓	TOTAL TIME FISHED: 1 hr	
WEATHER Partly OVERCAST	SURFACE TEMP. 49	GEAR FISHED HOW? OK	
WIND SW-10-15	BOTTOM TEMP.	INDICATE TROUBLE None	
AIR TEMP. 53°	GEAR USED: 400 Mesh Eastern with 1½" lines		
BARO-METER 30.08			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Sample Gr Mud & Sand

Lots of Basket stars & sea pens hanging on footrope. All King crab in good condition the 6 ♂ tagged & released.

King Crab measurements ♂ width 221, 113, 205, 225, 209, 110 mm. Two with new shell (N) is shell were small males, the 4 large ♂ had old shell (O)

H.C.J.

ESTIMATED TOTAL CATCH 1200

SPLITS None

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut	13	75	35
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc "sole"	small	60	—
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	small	5	—
Sculpin		75	Bait
Eulachon		5	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	3	9	—
Hake			
Lingcod			
Pollock	all small	80	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Pink	900	Large Sample
100% Pinks		

CRAB:	♀	Sm. ♂	L. ♂	lbs. L.
King	2	2	4	45
Tanner		Count		73

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 7/21/57	ESTIMATED TOTAL CATCH 800-850
DRAG NO. 7	GEOG. REF. South of Unga Cape	DEPTH RANGE 45 to 58	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°58.3'	160°33'
End		54°56'	160°31.5'

COURSE 140° Mid-good 143°	SEA Westerly Chop	Start Net Out 1530	Cable All Out 1542
SCOPE 150	SWELL Heavy to Med. SW	Net All In 1715	Start Cable In 1642
SPEED 2.5 K	TIDE ✓	TOTAL TIME FISHED: 1 hr	
WEATHER 100% O'cast	SURFACE TEMP. 50	GEAR FISHED HOW? OK	
WIND End 24-28 Wrly 12-18	BOTTOM TEMP. BT #2	INDICATE TROUBLE None	
AIR TEMP. 51°	GEAR USED: 400 Eastern Trawl with 1½" bag liner		
BARO-METER 30.06			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: Bottom Type Drk Gr Sand

Lots of basket stars on dangerline. Wind & swell progresivly increased during drag.

Forge 3 halibut of which two are about 70 pounds each.

H.C.J.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut	6	165	90
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			
Sculpin		40	Pot Bait
Flat Fish Misc	Small	50	"

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	44	130	-0-
Hake			
Lingcod			
Pollock	All Small	40	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Pink	400	100-125
100% Pinks		

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	1			3
Tanner			Count 46	

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/24/57	ESTIMATED TOTAL CATCH 650-700
DRAG NO. 8	GEOG. REF. East Unga Cape	DEPTH RANGE 100-122	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°07'	160°19.4'
End		55°05.6'	160°23.2'

M. COURSE 210° Mangue 217°	SEA Light Chop	Start Net Out 0806	Cable All Out 0819
SCOPE 250	SWELL Low	Net All In 1014	Start Cable In 0917
SPEED 2.6K	TIDE 1/2 flood	TOTAL TIME FISHED: 1 hr	
WEATHER Dark rt over cast Rain	SURFACE TEMP. 50	GEAR FISHED HOW? O.K.	
WIND SW 18-	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 51	GEAR USED: 400 mesh Eastern Otter Trawl with 1½" bag liner		
BAROMETER 29.9			

HAZARDS:
- None.....
- Snag.....
- Torn Web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
In order to make this drag between the strings of pots we ran along pot set #3 and discovered that the buoy marker had drifted. We intend doubling on the Pot Marker Buoys anchors.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		20	5
Halibut			
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"		10	20
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	12-14	140	Cast -0- pots

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	11	75	100%
Hake	7		
Lingcod		30	-0-
Pollock	10" 1/2#	30	-0-
Sablefish (black cod)			
Liparid	5	15	-
Misc Blenny		60	
Dogfish	1	5	100%
~~Ratfish~~ Misc Eel pouts		50	
Skate eukachon	9"-10"	5	

ROCKFISH:			
Pacific Ocean Perch			
Misc	3	2	-0-

SHRIMP:	POUNDS	NO./POUND
Pink	120	Frozen Sample
Side Stripe	20	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			8" 1	12
Tanner				#33

OTHER FISH

OTHER INVERTEBRATES 3 Starfish 5 rayed

HCJ

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
Tordenskjold	32	7/26/57

ESTIMATED TOTAL CATCH: 900-950

SPLITS

DRAG NO.	GEOG. REF.	DEPTH RANGE
9	20 miles true S. Unga Cape	53-60

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 47.7'	160° 29.50'
End		54° 45.25'	160° 29.25'

COURSE 160° Magnetic 150°	SEA Calm	Start Net Out 0700	Cable All Out 0710
SCOPE 150	SWELL Longlow SE	Net All In 0840	Start Cable In 0810
SPEED 2.4 K	TIDE 1st of flood	TOTAL TIME FISHED: 1 hr	
WEATHER Clear	SURFACE TEMP. 50	GEAR FISHED HOW? OK	
WIND SE 1	BOTTOM TEMP. BT #5	INDICATE TROUBLE	
AIR TEMP. 50.5	GEAR USED: 400 Eastern trawl with 1½" Dog liner		
BARO-METER 29.92			

HAZARDS:
- None.....✓
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: 75% to 80% haul shrimp. Pink shrimp appeared to be good size. Incidental catch easily seperated. 8 King crab 4 new shell & 2 old shell all in good condition

HCJ

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut	3	10	-0-
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc "sole"		25	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	Small	50	-0-
Sculpin		25	Ak Bait

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock	All 8"-11"	100	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Pink	600-650	Fine Sample

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	7	X	6	100
Tanner				#79

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/26/57	ESTIMATED TOTAL CATCH 300
DRAG NO. 10	GEOG. REF. 25 miles South Unga Cape	DEPTH RANGE 52-59	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°43.1'	160°28.5'
End		54°40.8'	160°30.0'

COURSE 195° mile Good 18.3	SEA Confused Slight Westerly	Start Net Out 0855	Cable All Out 0905
SCOPE 150	SWELL Long Low SE	Net All In 1035	Start Cable In 1005
SPEED 2.4K	TIDE 1/2 flood	TOTAL TIME FISHED: 1 hr	
WEATHER Clear	SURFACE TEMP. 50	GEAR FISHED HOW? OK	
WIND 6-8 Wly	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 57	GEAR USED: 400 Eastern Otter Trawl with 1½" mesh liner in bag.		
BARO-METER 29.95			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
All male King crab tagged & released. 8 male crabs had "N" (new) shell 2 were "O" (old) shell the two females were new shell.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Various "sole"		10	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	All Small	10	-0-
Sculpin		90	
Misc Blennys		10	

SHRIMP:	POUNDS	NO./POUND
Pink	10	100-125

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	3	12	5
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Various Scaporches	25-30	5	
Prowfish	1	4	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
S. melanops	1	3	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	2	X	10	1
Tanner				#

OTHER FISH

OTHER INVERTEBRATES 2 Sponge 2 multirayed Starfish

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE July 26 '57	ESTIMATED TOTAL CATCH 200
DRAG NO. 11	GEOG. REF. 30 miles T. So. Unga Cape	DEPTH RANGE 56-65	SPLITS

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 38.0'	160° 30.5'
End		54° 36.3'	160° 31.5'

COURSE 180°	SEA Light Westerly	Start Net Out 1055	Cable All Out 1100
SCOPE 150	SWELL Long Low SE	Net All In 1205	Start Cable In 1150
SPEED 2.0	TIDE Last of flood	TOTAL TIME FISHED: 50 min	
WEATHER 100% Clear	SURFACE TEMP. 50	GEAR FISHED HOW?	
WIND End 8-10 W 4-6	BOTTOM TEMP.	INDICATE TROUBLE Hung up	
AIR TEMP. 56	GEAR USED: 400 Mesh Eastern Trawl with 1½" mesh bag liner		
BARO-METER 29.92			

HAZARDS:
None.....
Snag.....
Torn web ✓
Mudding...
Abrasive..
Other:

REMARKS: Bottom Type Gr. Sand & Mud Gravel & stones

Net torn about 1½ fathoms along head rope. Froze the halibut for U.S.F.W.S. Tech Lab.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut	1	50	
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Various "sole"		5	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	14	25	.0-
Sculpin		25	
Mud Bleanys		5	

SHRIMP:	POUNDS	NO./POUND

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	14	35	-0-
Hake			
Lingcod			
Pollock	6" to 11"	10	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
S. alutus	4	12	100

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				#3

OTHER FISH 6 mutislar fish 5 sea anemones

OTHER INVERTEBRATES 5 Sea urchin, some spine & basket starts

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 7/27/57	ESTIMATED TOTAL CATCH: 2800
DRAG NO.: 12	GEOG. REF.: 39 mi T. So Unga Cape	DEPTH RANGE: 77-78	SPLITS: 1

POSITION:	Loran	Latitude	Longitude
Start	Radar &	54°28.2	160°29.1
End	Dead Reckoning	54°30.2	160°28.7'

COURSE 342° Mag Bd 347°	SEA: Slight W	Start Net Out 0808	Cable All Out 0818
SCOPE 225	SWELL: Low W	Net All In 1010	Start Cable In 0918
SPEED 2 K	TIDE: Low	TOTAL TIME FISHED: 1 hr	
WEATHER 90% overcast	SURFACE TEMP. 49.8	GEAR FISHED HOW? O.K.	
WIND NW 8-10	BOTTOM TEMP. Bt #6	INDICATE TROUBLE: None	
AIR TEMP. 50	GEAR USED: 400 Mesh Eastern Trawl with 1½" mesh bag liner		
BARO-METER 30.09			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Lots of basketstars & medium turbot hanging in wings & body S. alutus about 15% of catch all good size. Small to medium turbot made up about 60% of the total. Froze sample S. alutus

FLATFISH:	NO.	POUNDS	% M. (Weight)
Butter "sole"			
Dover "sole"			
~~English~~ "sole" Misc	Small	30	-0-
Flathead "sole"	5% catch	140	5
Halibut 21", 15", 25#	3	30	80
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	60% catch	1680	5
Sculpin		180	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)		65	50
Hake			
Lingcod			
Pollock	8" to 11"	50	-0-
Sablefish (black cod)	10	20	-0-
Eelpouts & Blennys		50	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch	15% catch	380	100%

SHRIMP:	POUNDS	NO./POUND
Pink	1-2	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				$125 to 150

OTHER FISH

OTHER INVERTEBRATES

HG

OTTER TRAWL RECORD

VESSEL: Tredenskjold	CRUISE NO. 32	DATE 7/27/57	ESTIMATED TOTAL CATCH 400
SPLITS No			

DRAG NO. 13	GEOG. REF. 47 miles south Unga cape	DEPTH RANGE 61-62	

POSITION:	Loran	Latitude	Longitude
Start	Radar Dead Reckon	54° 23.3'	160° 34'6
End		54° 25.2'	160° 36.3

COURSE 335° Mid good 319°	SEA Slight W	Start Net Out 1812	Cable All Out 1822
SCOPE 175	SWELL Lo W	Net All In	Start Cable In 1922
SPEED 2.2 K	TIDE Strong current Last of ebb	TOTAL TIME FISHED: 1 hr	
WEATHER Fog inshore Clear	SURFACE TEMP. 50	GEAR FISHED HOW? O.K.	
WIND W 10-12	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 54	GEAR USED: 400 Mesh Eastern Trawl with 1½" mesh bag liner		
BARO-METER 30.20			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other: Strong current made lifting seem heavy

REMARKS: Bottom Type Stones + coral

Basket stars, starfish & brittle stars tangled in wings & body of net. One stone about 10 pounds in bag.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Mix "sole"	Small	25	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	50% catch	200	-0-
Blennys + eelpout	25%	100	
Sculpin		10	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	15	40	-0-
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate	1	8	

ROCKFISH:			
Pacific Ocean Perch			
Small Red rock	40-50	25	-0-

SHRIMP:	POUNDS	NO./POUND
None		

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	1 juvenile			1/3
Tanner				#1

OTHER FISH

OTHER INVERTEBRATES Coral Flex. Sea urchins & sea anemones

[illegible]

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 7/29/57	ESTIMATED TOTAL CATCH: 650-675
DRAG NO.: 14	GEOG. REF.: 30 miles Mag. South Acheredin Point	DEPTH RANGE: 58-66	SPLITS: None

POSITION:	Loran	Latitude	Longitude
Start	Sun line - Radar &	54°38.4'	161°03.2'
End	Dead reckoning	54°35.8'	161°02.3'

COURSE: 160° Made Good 150°	SEA: Slight W	Start Net Out: 1156	Cable All Out: 1210
SCOPE: 175	SWELL: Lo NW	Net All In: 1345	Start Cable In: 1310
SPEED: 2.4 K	TIDE: 1/2 flood	TOTAL TIME FISHED: 1 hr	
WEATHER: Clear Fog bank in shore	SURFACE TEMP.: 50.5	GEAR FISHED HOW?: O.K	
WIND: Wrly 6-8	BOTTOM TEMP.: BT#7	INDICATE TROUBLE: None	
AIR TEMP.: 55	GEAR USED: 400 mesh Eastern trawl with 1½" mesh bag liner		
BAROMETER: 30.22			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Type Dk Gr. Sand & mud with worm casings Soft.

Start setting north end pot set #9

Shrimp looked to be of very good size (Froze sample)

balance of catch mostly trash fish

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Mise "sole"	Small	30	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	40% of haul	250	5
Eulachon	large	5	100

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	6	20	(1 only) 25
Hake			
Lingcod			
Pollock			
Sablefish (black cod)	4	10	-0-
Eelputs, Blennys &		50	
Sculpin	25	30	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Pink	100-125	Froze sample

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				#26

OTHER FISH:

OTHER INVERTEBRATES: Basket stars & starfish in veings

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/29/57	ESTIMATED TOTAL CATCH 900-950
DRAG NO. 15	GEOG. REF. 38 miles Mag. South Acheredin Point	DEPTH RANGE 68-72	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Sun Line - Radar & Dead Reckoning	54°30.8'	161°07.4'
End		54°28.5'	161°07.4'

COURSE 160° Mag. Gen. 162°	SEA Slight W	Start Net Out 1420	Cable All Out 1447
SCOPE 175	SWEEL Lo NW	Net All In	Start Cable In 1547
SPEED 2.4 K	TIDE Last of flood	TOTAL TIME FISHED: 1 hr	
WEATHER 70% o'cast cloudy hi	SURFACE TEMP. 51.5	GEAR FISHED HOW? O.K	
WIND Wly 2-4	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 57	GEAR USED: 400 Mesh Eastern Trawl with 1½ inch mesh bag liner		
BAROMETER 30.20			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Type

This haul about the same composition as Drag #14 in respect to fish but not quite as great a percentage of shrimp. Basket stars in wings & body of net. This drag made along west side pot set # 8.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 19½"	1	3½	-0-
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc. "sole"	Small	60	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		350	5
Sculpin		50	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	10	40	-0-
Hake			
Lingcod			
Pollock 8" to 11"		40	-0-
Sablefish (black cod)	8	20	-0-
Eelpout & Blenny		60	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Pink	150-200	Approx. 90-100
Few it any egg bearers		

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#60

OTHER FISH

OTHER INVERTEBRATES Hydracoral

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/29/57	ESTIMATED TOTAL CATCH: 400-425	SPLITS: No
DRAG NO. 16	GEOG. REF. 42 miles from South Atheredon Point	DEPTH RANGE 59-67		

POSITION:	Loran	Latitude	Longitude
Start	Sea Line - Radar ¢	54° 27.4'	161°06'
End	Dead Reckoning	54° 25.5'	161°06'

COURSE 160° Averaged 163°	SEA Calm	Start Net Out 1643	Cable All Out 1650
SCOPE 175	SWELL Slight W	Net All In 1820	Start Cable In 1745
SPEED 2.2 K	TIDE 1/2 ebb	TOTAL TIME FISHED: 55 min.	
WEATHER 90% cloudy high clouds	SURFACE TEMP. 51	GEAR FISHED HOW? Hung up	
WIND W 2-3	BOTTOM TEMP. —	INDICATE TROUBLE	
AIR TEMP. 55	GEAR USED: 400 mesh Eastern Otter Trawl with 1½" mesh bag liner		
BAROMETER 30.20			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Basket stars & turbot fouled in wings also a few starfish & sea cucumber fouled in body of net. A "trashy" haul. No damage to net body but a couple fathoms of hangings torn along the head rope.

H.C.J.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 19½"-22½"	2	5	-0-
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc Small "sole"		5	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot 50% cull		200	10
Sculpin		15	
Sea Poacher	3	1	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	6	15	-0-
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			
ROCKFISH:			
Pacific Ocean Perch		40	5

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Box (large)				1 only
Tanner				1 only

OTHER FISH

OTHER INVERTEBRATES: Sea Snails, large red sea anemones 75# 5 large Dwarfs

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE	ESTIMATED TOTAL CATCH	SPLITS
Tordenskjold	32	7/31/57	300 - 350	No

DRAG NO.	GEOG. REF.	DEPTH RANGE
17	13 Miles SSE of Acheredin Point	44-48

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 54.3'	160° 46.5'
End		54° 52.3'	160° 45.'

COURSE	SEA	Start Net Out	Cable All Out
135	slight N	0720	0730
SCOPE	**SWELL**	**Net All In**	**Start Cable In**
125	to W	0855	0830
SPEED	**TIDE**	**TOTAL TIME FISHED:**	
2.3K	1/2 ebb	1 hr	
WEATHER	**SURFACE TEMP.**	**GEAR FISHED HOW?**	
Heavy O'cast	53	OK	
WIND	**BOTTOM TEMP.**	**INDICATE TROUBLE**	
W 6-8	13T 20	None	
AIR TEMP.	**GEAR USED:**		
58	400 Mesh Eastern Trawl with 1 1/2" mesh bag liner		
BAROMETER			
30.14			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other: Hydra coral, lots in wings & body

REMARKS: Bottom: Dark Gr Sand & Type: large Worm casings

King crab (4) all tagged & released 2 New shell 2 Old shell. Lots of hydra coral 80# to 100# hanging in wings & body of net.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex Mise "sole"	Small	10	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot Fry for Bait	Small	55	5
Sculpin	7	25	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	2	5	-0-
Hake			
Lingcod			
Pollock 10" to 11"	4	4	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:
Pacific Ocean Perch

SHRIMP:	POUNDS	NO./POUND
Pink	60-70	100-110

CRAB:	♀	Sm. ♂	L. ♂	lbs. L.
King			4	35
Tanner				#65

OTHER FISH

OTHER INVERTEBRATES: 40 starfish 5 grayed

ND

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/31/57	ESTIMATED TOTAL CATCH 750-800
DRAG NO. 18	GEOG. REF. 20 Miles True South Uniga Cape	DEPTH RANGE 54-59	SPLITS None

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°49.6'	160°43.7'
End		54°47.5'	160°43.9'

COURSE 150° Made Back 164°	SEA Slight W	Start Net Out 0910	Cable All Out 0920
SCOPE 150	SWELL Lo W	Net All In 1042	Start Cable In 1020
SPEED 2.3 K	TIDE Low	TOTAL TIME FISHED: 1 hr	
WEATHER Hazy overcast	SURFACE TEMP. 54	GEAR FISHED HOW? O.K	
WIND W 2-3	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 53	GEAR USED: 400 Mesh Eastern Trawl with 1½" mesh bag liner		
BAROMETER 30.18			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: Bottom Type: Gr Mud: Some mud in fish bag. Lots of large pink shrimp gilled in intermediate. Froze sample few if any with eggs. Estimated 60% to 70% of catch to be shrimp

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	1	2	100
Halibut 22"-21½	2	7	-0-
Lemon "sole"			
Petrale "sole"			
Rex Misc "sole"	Small	30	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	Small	50	
Lipared	1	4	
Eel pout Blennys		5	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	2	4	-0-
Hake			
Lingcod			
Pollock Small	15 to 20	15	-0-
Sablefish (black cod)	1	2½	-0-
Scalpin		20	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Pink 100%	500-550	Large Froze Sample

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			2"N°	20
Tanner				#51

OTHER FISH

OTHER INVERTEBRATES Few hydra coral

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/31/57	ESTIMATED TOTAL CATCH 1200-1250
DRAG NO. 19	GEOG. REF. 22 Miles SSE of Acheredin Point	DEPTH RANGE 60-61	SPLITS

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°45.5'	160°43.2'
End		54°43.4'	160 44.3'

COURSE 150° Made Good 179°	SEA Calm	Start Net Out 1112	Cable All Out 1120
SCOPE 175	SWELL Slight W	Net All In 1246	Start Cable In 1220
SPEED 2.4K	TIDE Strong SW current Low	TOTAL TIME FISHED: 1 hr	
WEATHER High O'cast	SURFACE TEMP. 53.8	GEAR FISHED HOW? OK	
WIND W 3	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 53.5	GEAR USED: 400 Mesh Eastern Trawl with 1½" bag liner		
BARO-METER 30.12			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: Bottom Type: Gr. Sand & mud 2 small stones in bag.
Lots of basket stars in wings & body curtailed hauling until cleaned out.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		10	50
Halibut 24" 23' 24¾"	3	20	-0-
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc. "sole"		40	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		350	10
Sculpin		50	
Liparid	3	10	

SHRIMP:	POUNDS	NO./POUND
Pink	325	
Side Stripe	Trace	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	14	40	-0-
Hake			
Lingcod			
Pollock	all Small	45	-0-
Sablefish (black cod)			
Eelpout		10	
Blennys		30	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
Red Rock	Small	4	-0-

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				#94

OTHER FISH

OTHER INVERTEBRATES Starfish & Sea urchins

HCK

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/31/57	ESTIMATED TOTAL CATCH 575-1650
DRAG NO. 20	GEOG. REF. 28 miles 120° Mag Unga Cape	DEPTH RANGE 50-61	SPLITS No

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°41'	160°39.4'
End		54°38.5'	160°40.4

COURSE 180° Mag course 178°	SEA Calm	Start Net Out 1330	Cable All Out 1336
SCOPE 150	SWELL Lo Westerly	Net All In	Start Cable In 1436
SPEED 2.6 K	TIDE 1st flood	TOTAL TIME FISHED: 1 hr	
WEATHER High 100% OVERCAST	SURFACE TEMP. 52.2	GEAR FISHED HOW? OK	
WIND W 5	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 54.5	GEAR USED: Use Modified Eastern Trawl with 1½" mesh bag liner		
BAROMETER 30.18			

HAZARDS:
None.....
Snag.....
Torn web.
Mudding...
Abrasive..
Other: None

REMARKS:
Bottom Type Gr Sand & mud.
This haul appeared much more "trashy" on account of the numerous small pollock (approx 40% of catch)
The shrimp were also a little smaller
No shrimp were noted bearing eggs.
This seems to be the southern or outside edge of both shrimp & King crab at this time of year.
JCK

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	15	10	75
Halibut 20"-19¾"	2	10	-0-
Lemon-Rex "sole"	6	5	90
Petrale "sole"			
Rex Misc "sole"	Small	10	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			
Sculpin		20	

ROUNDFISH:	NO.	POUNDS	% N.
Cod (true)	14	40	-0-
Hake			
Lingcod			
Pollock 6"-8"-10"-12"	40% catch	240	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:		
Pacific Ocean Perch		
Small Red rock	4	2
Blennys sculpin		20

SHRIMP:	POUNDS	NO./POUND
Pink	50-60	125-135

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				22

OTHER FISH 1 small squid

OTHER INVERTEBRATES Sponge, Basket stars, Sea urchins

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
Tordenskjold	32	7/31/57

DRAG NO.	GEOG. REF.	DEPTH RANGE
21	26 Miles West South Acheredin Point	47-57

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 40.2'	160° 50'
End		54° 42.4'	160° 49.2

COURSE 340° Mudging 355°	SEA Calm	Start Net Out 1550	Cable All Out 1556
SCOPE 150	SWELL Very Low W	Net All In 1725	Start Cable In 1656
SPEED 2.4 K	TIDE High	TOTAL TIME FISHED: 1 hr	
WEATHER Lt. Fog Overcast	SURFACE TEMP. 52.5	GEAR FISHED HOW? OK	
WIND W 5	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 51.5	GEAR USED: 400 Mesh Eastern Trawl with a 1½" bag liner		
BAROMETER 30.15			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom type: True cod all between 3 to 3½ pounds made up approx. 1/3 of catch while about 10 % of catch was pollock 10 to 12 inches.

ESTIMATED TOTAL CATCH

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	3	5	100
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex Misc "sole"	Small	20	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		90	10
Blennys		20	
Sculpin		25	

SHRIMP:	POUNDS	NO./POUND
Pink	5	125-135

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true) 3 to 3½ pounds each		200	-0-
Hake			
Lingcod			
Pollock 10" to 12"		60	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				#9

SPLITS

	POUNDS	% M.

OTHER FISH

OTHER INVERTEBRATES Barkeetters 1 Sm. Octopus — 4 sea snails

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 7/31/57	ESTIMATED TOTAL CATCH: 800	SPLITS: None
DRAG NO. 22	GEOG. REF. 22 Miles True South Acheredin Point	DEPTH RANGE 57-58		

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°44.8'	160°49.6'
End		54°47'	160°49'

COURSE 335° Mag Comp 351°	SEA Calm	Start Net Out 1740	Cable All Out 1748
SCOPE 150	SWELL Very low W	Net All In	Start Cable In 1848
SPEED 2.5 K	TIDE 1st of Ebb	TOTAL TIME FISHED: 1 hr	
WEATHER Misty 100% O'Cast	SURFACE TEMP. 52.5	GEAR FISHED HOW? O.K	
WIND W 6	BOTTOM TEMP. BT #9	INDICATE TROUBLE None	
AIR TEMP. 51	GEAR USED: 400 Mesh Eastern Trawl with 1½" mesh bag liner		
BARO-METER 30.15			

HAZARDS:
None.....
Snag.....
Torn Web..
Mudding...
Abrasive..
Other:

REMARKS: Bottom type: Gr. Sand & mud. Lots of basketstars - stopped to clean net as we hauled. Catch was rather muddy when dumped on deck! Saved about 75 to 80 pounds of shrimp to distribute at Sand Point.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		10	80
Halibut 21¾" 18½"	2	10	-0-
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc "sole"		85	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		125	15
Sculpin		60	
eulachon		5	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	6	25	80
Hake			
Lingcod			
Pollock small		50	
Sablefish (black cod)			
Eelpouts & Blennys		20	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
Red Rock	small 6	4	

SHRIMP:	POUNDS	NO./POUND
Pink	200	125-135
Side Stripe	Trace	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			2"	14
Tanner				#84

OTHER FISH

OTHER INVERTEBRATES: Starfish, Basketstars

JHC

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 8/4/57	ESTIMATED TOTAL CATCH: 35
DRAG NO.: 23	GEOG. REF.: 5 Miles True WEST Saddlers Mistake	DEPTH RANGE: 35-37	SPLITS: No

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°48.5	160°22'
End		55°00.	160°20.5

COURSE	SEA: SW Mod.	Start Net Out: 1330	Cable All Out: 1342
SCOPE: 125	SWELL: SW Mod.	Net All In: 1505	Start Cable In: 1432
SPEED	TIDE: LO	TOTAL TIME FISHED: 50 min	
WEATHER: Rain Showers	SURFACE TEMP.: 52.5	GEAR FISHED HOW?	
WIND: SW23	BOTTOM TEMP.	INDICATE TROUBLE: hung up 3 times	
AIR TEMP.: 51	GEAR USED: 400 Mesh Easter Trawl with 1½" mesh bag liner		
BAROMETER: 29.82			

HAZARDS:
- None.....
- Snag....✓
- Torn web.✓
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type: Rocky

The net hung up momentarily three times before hooking up solid. This was probably caused by the large swell and as we were running before it when we would hook up the swell would lift us off. A rock about 12 or 15 pounds came up in the fish bag

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			
Blenny	1	1½	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			1	10

OTHER FISH

OTHER INVERTEBRATES: 10# Sponge (3), Hermit crab & Brittle Stars (15)

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 8/5/57	
DRAG NO. 24	GEOG. REF.	DEPTH RANGE	

POSITION:	Loran	Latitude	Longitude
Start	Rakku	55°02.6'	160°23.7'
End		55°03.1'	160°20.3'

COURSE 054	SEA Rough, SW	Start Net Out 1032	Cable All Out 1043
SCOPE 200	SWELL Rough SW	Net All In	Start Cable In 1143
SPEED 2.2K	TIDE High	TOTAL TIME FISHED: 1 hr	
WEATHER Rain Squalls	SURFACE TEMP. 51	GEAR FISHED HOW?	
WIND SW 23	BOTTOM TEMP.	INDICATE TROUBLE	
AIR TEMP. 52	GEAR USED: 400 Mesh Western with 1½" mesh bag liner		
BARO-METER 29.83			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: Halibut measurements 17¾"-21"-18½"-20½"-17¾"-16½"-13¾"-18¼" 17½". With a new net and a quite large swell our catch may not have been as good as could be expected under more ideal conditions.

HCJ

ESTIMATED TOTAL CATCH 500

SPLITS

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		40	10
Halibut	9	30	-0-
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab	Small	5	
Sand "sole"			
Starry Flounder			
Turbot	Small	100	-0-
Blennys		8	
Sculpin		120	

SHRIMP:	POUNDS	NO./POUND
Pinks	1	130-135
Sidestripe	4	90-110

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock 7" to 11"		5	-0-
Sablefish (black cod)			
Sand Fish	2	2	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
Red Rock	2	1	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			4	35
Tanners				#166

OTHER FISH

OTHER INVERTEBRATES 3 starfish; 10 large hermit crabs

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 8/7/57	ESTIMATED TOTAL CATCH: 10
SPLITS: None			

DRAG NO. 25	GEOG. REF. 17 mile SXW magnetic from Achredin Point	DEPTH RANGE 55-60	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 52.8'	161° 05'
End		54° 52.5	161° 05

COURSE 180° Mag. Brg.	SEA: NW Mod	Start Net Out 0727	Cable All Out 0742
SCOPE 175	SWELL: NW Mod	Net All In 0828	Start Cable In 0758
SPEED	TIDE: 1st Flood	TOTAL TIME FISHED: min. 16	
WEATHER: Clear	SURFACE TEMP.	GEAR FISHED HOW? Heavy UP	
WIND: NW 10	BOTTOM TEMP. BT #10	INDICATE TROUBLE	
AIR TEMP. 54	GEAR USED: 400 Western with 1½" mesh bag liner		
BAROMETER 30.29			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type: Rocky
Lots of Basket Stars in wings & body
No damage to net

NCO

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			
Sculpin	2	5	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.

SHRIMP:	POUNDS	NO./POUND

OTHER FISH

OTHER INVERTEBRATES: Sponge & sea anemones

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 8/9/57	ESTIMATED TOTAL CATCH 1200
DRAG NO. 26	GEOG. REF. In gully outside Beaver Bay in Unga Strait	DEPTH RANGE 59-81	SPLITS 1

POSITION:	Loran	Latitude	Longitude
Start	Radar	55° 23.7'	160° 56.4'
End		55° 25.9	160° 54.1'

COURSE 010 (Indicator 012)	SEA Slight SW	Start Net Out 0754	Cable All Out 0805
SCOPE 200	SWELL None	Net All In 0925	Start Cable In 0905
SPEED 2.6 K	TIDE Low	TOTAL TIME FISHED: 1 hr	
WEATHER Light fog	SURFACE TEMP. 52.5	GEAR FISHED HOW? OK	
WIND Light 2	BOTTOM TEMP. BT #12	INDICATE TROUBLE Snagged a stump	
AIR TEMP. 51.5	GEAR USED: 400 Western Trawl with 1½" mesh bag liner		
BAROMETER 30.20			

HAZARDS:
- None.....
- Snag.....
- Torn web.
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom type: Boulders & Hard Brown Clay
Repaired net from 1000 until 1400
Two stows approx 20 pounds each in fish bag.
The male King crab will average between 8 & 10 pounds each. The 13 male juveniles were all "new shell". The female King crab were mostly small (13) and 2 adult

HCJ

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		60	100
Halibut	38	150	25
Lemon "sole"	5	10	100
Petrale "sole"			
Rex Rock "sole"		100	90
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		20	75
Sea Raven	8		
Sculpin		150	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	14	60	75
Hake			
Lingcod			
Pollock			
6" to 8"	200	50	-0-
Sablefish (black cod)			
Liparid	4		
Dogfish			
Ratfish			
Skate			
ROCKFISH:			
Pacific Ocean Perch			
Red Rock	Small	½	

SHRIMP:	POUNDS	NO./POUND
Spot	6	Large Shrimp 84
Sidestripe	1	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	15	13	26	260
			23x= 3 4x=	
Tanner				395

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL: Tuderskjold	CRUISE NO.: 32	DATE: 8/9/57	ESTIMATED TOTAL CATCH: 800
DRAG NO.: 27	GEOG. REF.: North end Beaver Bay	DEPTH RANGE: 17 to 35	SPLITS: None

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°30.1'	160°54'
End		55°27.7'	160°55.9'

COURSE: 180° Madagascar 186°	SEA: Calm	Start Net Out: 1350	Cable All Out: 1353
SCOPE: 7.5 1440±50	SWELL: Calm	Net All In	Start Cable In: 1453
SPEED: 2.6	TIDE: High	TOTAL TIME FISHED: 1 hr	
WEATHER: High 100% O'Cast Fog	SURFACE TEMP.: 53	GEAR FISHED HOW?: OK	
WIND: W 2	BOTTOM TEMP.: BT 12	INDICATE TROUBLE: None	
AIR TEMP.: 53	GEAR USED: 400 Mesh Western Trawl With 1½" mesh Bag liner		
BAROMETER: 30.19			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type: Green Mud
Much seaweed in wings & body of net also picked up a limb of a tree, tore only a few meshes. Froze the two largest halibut for scientific sampling by Montlake Tech. Lab.

HCJ

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 60# & 70#	25	200	70
Lemon "sole"	10	25	100
Petrale "sole"			
~~Rex~~ Rock "sole"		300	30
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	5	10	-0-
Sculpin		40	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	3	6	-0-
Hake			
Lingcod			
Pollock 6" to 8"	35 to 40	8	
Sablefish (black cod)			
Sand Fish	1	½	
Misc Blennys	10	4	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Spot	½	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
	3	2 YV		8
Dungeness				#44
Tanner				#152

OTHER ~~FISH~~: 1 large scallop

OTHER INVERTEBRATES: Sea pens & sea anemones

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 8/11/57	ESTIMATED TOTAL CATCH: -0-
DRAG NO.: 28	GEOG. REF.: True North Sanak & Caton Islands	DEPTH RANGE: 80	SPLITS: No

POSITION:	Loran	Latitude	Longitude
Start	Rotari	54° 30.1	162° 29.5'
End		✓	✓

COURSE: 090°	SEA: Slight SW	Start Net Out: 0735	Cable All Out: 0745
SCOPE: 225	SWELL: Low SW	Net All In: 0835	Start Cable In: 0805
SPEED: Nodded	TIDE: Low	TOTAL TIME FISHED: No Distance	
WEATHER: 100% O'CAST - Fog	SURFACE TEMP.: 51	GEAR FISHED HOW?	
WIND: SW 12	BOTTOM TEMP.: BT 13	INDICATE TROUBLE: Took Bearing at slow speed not mudded	
AIR TEMP.: 53	GEAR USED: 400 mesh Western with 1½" mesh Bag liner. Two Phillips floats added to end-end 3 ft apart just above sp strap		
BARO-METER: 30.15			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding.. ✓
- Abrasive..
- Other:

REMARKS:
Bottom type: Soft Green Mud

No net damage

Mud on sides of doors indicating doors laid flat on bottom

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

Nothing

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.

OTHER FISH

OTHER INVERTEBRATES

HCJ

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
Tordenskjold	32	8/11/57

DRAG NO.	GEOG. REF.	DEPTH RANGE
29	East North 5 miles Cape Ig.	76-79

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°30.1'	162°28.4'
End		54°29.2'	162°24.9'

COURSE 087° mag. end 096°	SEA Slight SW	Start Net Out 0836	Cable All Out 0842
SCOPE 175	SWELL Low SW	Net All In 1005	Start Cable In 0942
SPEED 2.2K	TIDE Pst of Flood	TOTAL TIME FISHED: 1 hr	
WEATHER 100% Fog Mist	SURFACE TEMP. 51	GEAR FISHED HOW? OK	
WIND SW 14-18	BOTTOM TEMP. Bt 13	INDICATE TROUBLE None	
AIR TEMP. 53	GEAR USED: 400 Western with 1½" mesh bag liner. Two Phillips floats add to rib line - 2 ft apart just above splitting strap.		
BARO-METER 30.15			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Type Soft Mud

Starfish, kelp, turbot & basket stars in wings & net body

HCJ

ESTIMATED TOTAL CATCH 400

SPLITS None

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 16½"	1	3	-0-
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		70	Per Rept 50
Eulachon		10	
Blenny			

SHRIMP:	POUNDS	NO./POUND
Side Stripe	5	80-90
Pink	1	180

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	52	200	60
Hake			
Lingcod			
Pollock			
Sablefish (black cod)	10	25	-0-
Liparids		10	Per Rept
Sculpin		30	
~~Dogfish~~ Eelpouts		30	
Ratfish			
Skate Prickly	1	10	

ROCKFISH:			
Pacific Ocean Perch			
5"-6" Rockfish	3	1	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				#24

OTHER FISH: Sea Raven (4)

OTHER INVERTEBRATES: Hermit crabs & starfish

OTTER TRAWL RECORD

VESSEL: Tondenskjold	CRUISE NO. 32	DATE 8/11/57	
DRAG NO. 30	GEOG. REF.	DEPTH RANGE 80	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°29.6'	162°20.7
End		54°29.5'	162°16.8'

COURSE 090° [illegible] 079°	SEA SW Mod	Start Net Out 1032	Cable All Out 1040
SCOPE 175	SWELL SW slight	Net All In 1210	Start Cable In 1140
SPEED 2.2K	TIDE 1/2 flood	TOTAL TIME FISHED: 1 hr	
WEATHER 100% O'Cast Fog & Phst	SURFACE TEMP. 51	GEAR FISHED HOW? O.K	
WIND SW 14-18	BOTTOM TEMP. Bt #13	INDICATE TROUBLE None	
AIR TEMP. 55	GEAR USED: Ditto #29 Cu. #32 Tondenskjold		
BARO-METER 30.14			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type Gr. Mud:
Approx. 30 turbot gilled in wings
Froze the specimen of S. alutus
also a blue bellied turot was
frozen

ESTIMATED TOTAL CATCH 600-650 SPLITS No

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	7	15	100
Halibut	4	30	60
Lemon "sole"			
Petrale "sole"			
Rex Misc "sole"	Small	50	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		20	80
Sculpin		60	
Eelpout		10	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	104	300	75
Hake Approx 4 [illegible]	4	16	100
Lingcod			
Pollock 10" to 12"		40	
Sablefish (black cod)	8	20	-0-
Eulachon		5	100
Liparid		30	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch	1	3	100
Red rock	2	3/4	

SHRIMP:	POUNDS	NO./POUND
Side stripe	5	80-90

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#41

OTHER FISH

OTHER INVERTEBRATES Starfish & Hermit crabs

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 8/11/57	ESTIMATED TOTAL CATCH 250-275	SPLITS No
DRAG NO. 31	GEOG. REF. 9 miles Mag. West of Cherni Island	DEPTH RANGE 65-70		

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 41.4'	162° 37.8'
End		54° 39.2'	162° 36.8'

COURSE 153° Made Good 149°	SEA SW Mod.	Start Net Out 1440	Cable All Out 1447
SCOPE 175	SWELL SW Mod	Net All In 1620	Start Cable In 1547
SPEED 2.2 K	TIDE High	TOTAL TIME FISHED: 1hr	
WEATHER 100% O'Cast Rice Chuck	SURFACE TEMP. 51.5	GEAR FISHED HOW? OK	
WIND Sway 15	BOTTOM TEMP. BT 14	INDICATE TROUBLE None	
AIR TEMP. 53	GEAR USED: 400 Western with 1½" Mesh bag liner. Two Phillips floats made fast on rib line 3 ft apart just above spht Strap		
BAROMETER 30.10			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Type: Hard Gr Sand. Hard simple to sort. The sculpin would average about 3 to the pound.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 25" @ 20½	2	10	75
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"	3	8	100
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	8	25	100
Liparid	8	15	
Sculpin	Many Small	40#	Bait

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	2	9	100
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			12" 23½ oz	110#
Tanners				#52

SHRIMP:	POUNDS	NO./POUND

OTHER FISH

OTHER INVERTEBRATES: Kelp on foot rope. Hermit crab

J.C.J.

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/11/57	
DRAG NO. 32	GEOG. REF. 4½ miles Mag. North Middle Sanak Is.	DEPTH RANGE 75-78	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°33.1	162°40.2
End		54°31.	162°38.5

COURSE 134° Mad. Cod 138°	SEA SW Mod	Start Net Out 1730	Cable All Out 1735
SCOPE 175	SWELL Sly Mod	Net All In 1905	Start Cable In 1835
SPEED 2.3K	TIDE ½ ebb	TOTAL TIME FISHED: 1 hr	
WEATHER 100% O'Cast-Mistofog	SURFACE TEMP. 51.	GEAR FISHED HOW? OK	
WIND SW 18-20	BOTTOM TEMP. BT°14	INDICATE TROUBLE None	
AIR TEMP. 52	GEAR USED: 400 Western with 1½" Bag liner. Two Phillips floats made just to rib-line 3 feet apart just above splitting strap		
BARO-METER 30.05	REMARKS: Bottom Type: Gr Mud.		

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

An oddity of this area is its lack of Commercial Species of fish in any quantity

HCJ

ESTIMATED TOTAL CATCH 250-300 SPLITS No

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 17½	1	4	-0-
Lemon "sole"	2	6	100
Petrale "sole"			
~~Rex~~ Rock "sole"	10	15	-0-
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	4	12	-0-
Sculpin		70	
Liparid	3	6	

SHRIMP:	POUNDS	NO./POUND
Side Stripe	½	80-90

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)		180	95
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
1 Red Rock	1	½	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King		1"	1"	15
Tanner				#42

OTHER ~~FISH~~ Basket stars

OTHER INVERTEBRATES Butter clam shells (10) Large Hermit crabs

OTTER TRAWL RECORD

VESSEL Toedenskjold	CRUISE NO.	DATE 8/13/57	
DRAG NO. 33	GEOG. REF. Ikatan Bay	DEPTH RANGE 48-56	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°47'	163°18.7
End		54°47.7'	163°14'

COURSE 045° Made Good 061°	SEA Calm	Start Net Out 0855	Cable All Out 0905
SCOPE 150	SWELL Calm	Net All In 1035	Start Cable In 1005
SPEED 2.8 K	TIDE Low	TOTAL TIME FISHED: 1 hr	
WEATHER Fog & High overcast	SURFACE TEMP. 49	GEAR FISHED HOW? O.K	
WIND Nrly 8	BOTTOM TEMP. BT #16	INDICATE TROUBLE None	
AIR TEMP.	GEAR USED: 400 Western with 1½" mesh bag liner - Two Phillips floats rigged on bag rib line 3 ft apart & above split strap.		
BARO-METER 30.02			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other: Basket stars were a problem

REMARKS:
Bottom type
Lots of basket stars in the net which required stoppages during hauling to clean out. Except for the Tanners the haul was very "trashy"

HCJ

ESTIMATED TOTAL CATCH	2500 to 2800	SPLITS 2

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		60	90
Halibut	5	25	-0-
~~Lemon~~ Misc "sole"	Small	100	-0-
Petrale "sole"			
~~Rex~~ Rock "sole"		170	90
Slender "sole"			
Sand dab			
Sand "sole"	1	2	100
Starry Flounder	5	15	100
Turbot		50	-0-
Various Sculpin		500	
Eelpout		10	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true) Most 14" to 18" 2½ to 3#		500	1
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Sandfish	6	3	
Dogfish			
Ratfish			
Skate Longnose	4	40	

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Side Stripe	1/2	70-80
Coonstripe	1/2	60-70

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	2	54#	4	50
Tanners				$555

OTHER FISH Sea cucumbers, Hermit crabs

OTHER INVERTEBRATES Sea Urchins 150#, Sea snail

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/13/57	
DRAG NO. 34	GEOG. REF. IN Gully between Ivatan & Morzhovi Bay	DEPTH RANGE 51-54	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°50.8'	163°07.4'
End		54°52.	163°04.4'

COURSE NE-025 Mark Good 038°	SEA Calm	Start Net Out 1140	Cable All Out 1145
SCOPE 125	SWELL Calm	Net All In 1305	Start Cable In 1245
SPEED 2.1K	TIDE 1/2 flood	TOTAL TIME FISHED: 1 hr	
WEATHER High O'cast 80%	SURFACE TEMP. 53	GEAR FISHED HOW? OK	
WIND Wrly 4	BOTTOM TEMP. BT#17	INDICATE TROUBLE None	
AIR TEMP. 58	GEAR USED: 400 Western same as Drag # 33 cruise # 32		
BARO-METER 30.05			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Type Soft Green Mud. Approx. 90% of the fish were sculpin

ESTIMATED TOTAL CATCH 800 - 850 SPLITS No

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	3	4	-0-
Halibut			
Lemon "sole"	2	5	100
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	6	15	-0-
Sculpin	Mostly large	550	Bait
Sand fish	2	1	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true) 16"-18" 3 1/2 to 4#	10	35	-0-
Hake			
Lingcod			
Pollock	1	1 1/2	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
(Eggs) Sidestripe	1/2	80-90
Pink	1/4	180-200

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			1°0"	12
Tanner				194

OTHER FISH

OTHER INVERTEBRATES Hermit Crab (15),

6 Tub. 15

HB

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/13/57	
DRAG NO. #35	GEOG. REF. Outside Morzhovi Bay	DEPTH RANGE 51-73	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°54.3'	162°58.3'
End		54°56.9	162°57.7'

COURSE 000°N Made Good 350°	SEA SW Slight	Start Net Out 1350	Cable All Out 1400
SCOPE 150	SWELL SW Slight	Net All In 1520	Start Cable In 1500
SPEED 2.6 K	TIDE Last of Flood	TOTAL TIME FISHED: 1 hr	
WEATHER 50% O'Cast high	SURFACE TEMP.	GEAR FISHED HOW? OK	
WIND SSW 8-10	BOTTOM TEMP.	INDICATE TROUBLE None	
AIR TEMP. 54	GEAR USED: 400 Western rigged as in Drag #32 cc 32		
BARO-METER 30.09			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: Bottom Type: Gr Mud - Lots of Butter clamshells in wings & Sea weeds & grass, also few multi-rayed starfish.

ESTIMATED TOTAL CATCH

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	12	20	90
Halibut 22½	1	5	0
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"	12	20	90
Slender "sole"			
Sand dab			
~~Sand~~ Misc "sole"	Small	10	
Starry Flounder			
Turbot			
Sculpin		350	
Liparid	2	3	

SHRIMP:	POUNDS	NO./POUND
With egg Sidestripe	1/2	80-90

SPLITS

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	8	35	15
Hake Adult	2	8	
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			5 30	40
Tanners				#154

OTHER FISH

OTHER INVERTEBRATES 30-40 Hermit Crab - 10 Sea anemones

[illegible]

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/13/57	
DRAG NO. 36	GEOG. REF. Middle Morzhovi Bay	DEPTH RANGE 44-45	

POSITION:	Loran Lat.	Latitude Long	Longitude
Start	54°59.5	163°01.9	Radar
End	55°01.2	163°04.3	

COURSE 305 Made Good 305	SEA SE Mod	Start Net Out 1555	Cable All Out 1600
SCOPE 100	SWELL SE Slight	Net All In 1720	Start Cable In 1700
SPEED 2.2K	TIDE 1st of Ebb	TOTAL TIME FISHED: 1 hr	
WEATHER Clear	SURFACE TEMP. 51.5	GEAR FISHED HOW? OK	
WIND Sly 18-20	BOTTOM TEMP. BT #18	INDICATE TROUBLE Small Tears	
AIR TEMP. 62	GEAR USED: 400 Western rigged as in previous drag		
BARO-METER 30.10			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS: Bottom Type Soft Dark Gr Mud
Lots of sea grass in wings
Small tree limbs on the
bottom may have been the
cause of the tear in net.

ESTIMATED TOTAL CATCH 600-650 SPLITS No

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut All Measured	11	50	-0-
Lemon "sole" 16½ ea	2	5	100
Petrale "sole"			
Rex "sole" Rock	12	20	90
Slender "sole" Misc	Small	10	
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	6	9	
Scalpin		400	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	14	75	75
Hake			
Lingcod			
Pollock 10 to 12"	6	3	
Sablefish (black cod)			
Sea Peaches	2	½	
Eel Pouts	12	10	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
None		

CRAB:	♀	Sm. ♂	L. ♂	lbs. L.
King		2 mt	1	12
Tanner				#30

OTHER FISH

OTHER INVERTEBRATES 20 Sea anemones & 20 Hermit crabs

H [illegible]

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/13/57	ESTIMATED TOTAL CATCH 1700 - 1800
DRAG NO. 37	GEOG. REF. Head of Morzhovoi Bay	DEPTH RANGE 27-22	SPLITS 2

POSITION:	Loran	Latitude	Longitude
Start	Radar	55°02.1'	163°08.2'
End		55°04.3'	163°07.2'

COURSE 000° Made Good 359°	SEA E Mod.	Start Net Out 1743	Cable All Out 1745
SCOPE 75	SWELL E Slight	Net All In 1905	Start Cable In 1845
SPEED 2.3K	TIDE 1/2 ebb	TOTAL TIME FISHED: 1 hr	
WEATHER Clear	SURFACE TEMP. 51.5	GEAR FISHED HOW? OK	
WIND Estly 20-22	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 61	GEAR USED: 400 Western With 1½" mesh Bag liner. Two Phillips Floats 3 foot apart on top rib-line Three feet above split strap		
BARO-METER 30.10			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type: Stones & Gr sand with reddish brown sea grass

Very "trashy" haul approx 900 pound yellow sea anemones with lots of sea weed & grass

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut	12	40	15
Lemon "sole"	Few	20	100
Petrale "sole"			
~~Rex~~ Rock "sole"		225	75
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			
Sculpin		400	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm. ♂	L. ♂	lbs. L.
King	1		2	21
Tanner				91

OTHER FISH

OTHER INVERTEBRATES Sea anemones 900# Sponge 30#

NCJ

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/15/57	ESTIMATED TOTAL CATCH 175 - 200
DRAG NO. 38	GEOG. REF. Approx 5 miles SE of Umga Is.	DEPTH RANGE 60-64	SPLITS No

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°44.1	162°38.6
End		54°43.5	162°38.5

COURSE 160° MaxGeol 157	SEA SE Mod	Start Net Out 0910	Cable All Out 0920
SCOPE 175	SWELL SE Mod	Net All In 1025	Start Cable In 1000
SPEED Approx 2.K	TIDE 1/2 ebb	TOTAL TIME FISHED: Approx 20 min?	
WEATHER Mist & Fog	SURFACE TEMP. 51.5	GEAR FISHED HOW?	
WIND SE 18-20	BOTTOM TEMP. BT.19	INDICATE TROUBLE Engine heated up	
AIR TEMP. 54	GEAR USED: 400 Western with 1½" bag liner Two Phillips floats on upper rib line just above splitting strap spaced 3 ft apart		
BARO-METER 30.24			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type Gr. Mud.
The King crab would average around 8# each
2 had new shell 5 with old shell.

Considerable kelp in fish bag.

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	5	6	1 at 2#
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			
Sculpin		50	
Sea Peacher	1	1/4	1

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	2	5	-0-
Hake			
Lingcod			
Pollock 9" to 10"	25	20	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Side Stripe W.Eyes	1/2	
Pink	1/4	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			7	60
Tanners				#28

OTHER FISH

OTHER INVERTEBRATES

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 8/15/57	ESTIMATED TOTAL CATCH: 600
DRAG NO.: 39	GEOG. REF.: Approx 5 mile SE of Umgk Is	DEPTH RANGE: 64-72	SPLITS

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°44.2	Dog Legged 162°38'
End		54°42.	162°37.7

COURSE: 145 Made Good 158°	SEA: SE Mod	Start Net Out 1350	Cable All Out 1355
SCOPE: 175	SWELL: SE long low	Net All In 1525	Start Cable In 1455
SPEED: 2.3 K	TIDE:	TOTAL TIME FISHED: 1 hr	
WEATHER: Foggy Mist - clear 1000 ft	SURFACE TEMP.: 52	GEAR FISHED HOW?: OK	
WIND: SE 12	BOTTOM TEMP.:	INDICATE TROUBLE: None	
AIR TEMP.: 54	GEAR USED: 400 Western same as Drag 39 - Lo 32		
BAROMETER: 30.26			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type
King crab large ♂ 2 New shell
20 old shell & 20 very old shell

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		20	15%
Halibut 20"	1	4½	-0-
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot Mostly 12"-13"		40	10
Sculpin		90	Bait
Eelpout	8		

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock All 7" to 8"	Approx 400	75	
Sablefish (black cod)			
Liparid	3	5	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch	1	3	10L

SHRIMP:	POUNDS	NO./POUND
Side Stripe	1/2	
Pink	1/4	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King	1	1	42	425
Tannas				54

OTHER FISH

OTHER INVERTEBRATES

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 8/15/57	ESTIMATED TOTAL CATCH: 500
DRAG NO.: 40	GEOG. REF.: Approx 7 miles True West of Cherni Is.	DEPTH RANGE: 71-79	SPLITS: No

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 40.8'	162° 34.2'
End		54° 38.8'	162° 35.3'

COURSE 180° Made Good 180°	SEA: Slight SE	Start Net Out 1555	Cable All Out 1602
SCOPE: 175	SWELL: Slight SE	Net All In	Start Cable In 1702
SPEED: 2.1K	TIDE: High	TOTAL TIME FISHED: 1 hr	
WEATHER: 100% Fog Mist O'Cast	SURFACE TEMP.: 52	GEAR FISHED HOW?: OK	
WIND: SE 10	BOTTOM TEMP.: BT 40	INDICATE TROUBLE: None	
AIR TEMP.: 54	GEAR USED: 400 Western with 1½" mesh Dog lines Two Phillips floats made fast top rebline 3 feet from split strap		
BAROMETER: 30.26			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom Type Gr. Mud

One King crab (large male) lost that was hanging on net wings while coming up to surface. The King crab caught were all good size approx 12 pounds each or better. 9 crab had old shell, 6 very old all tagged & released

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole" 7"gu	Mostly Small	20	20
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		40	25
Sculpin		60	Bait
Liparid	9	15	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	4	16	75
Hake	1	4	
Lingcod			
Pollock			
Sablefish (black cod)			
Eulachon	1		
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND
Side Stripe	1 with eggs	

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			15	200
Tanners				126

OTHER FISH: Eelpouts

OTHER INVERTEBRATES: 2 pieces sponge (+) Smooth sea cucumber

HB

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/19/57	
DRAG NO. 41	GEOG. REF. 12 Miles SW of Pankof Cape	DEPTH RANGE 57-60	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°35.7'	163°23'
End		54°33.8'	163°25.1'

COURSE 180° Mass Cond 196°	SEA Calm	Start Net Out 0735	Cable All Out 0745
SCOPE 150	SWELL Very low SW	Net All In 0930	Start Cable In 0845
SPEED 2.7 K	TIDE High	TOTAL TIME FISHED: 1 hr	
WEATHER High Clouds	SURFACE TEMP. 52	GEAR FISHED HOW? OK	
WIND SW 4	BOTTOM TEMP. BT #22	INDICATE TROUBLE None	
AIR TEMP. 51	GEAR USED: 400 Western with 1½" mesh bag liner Two Phillips floats rigged on top rib line 3 feet fore & aft of splitting strap		
BARO-METER 30.00			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom type
Released cod fish as soon as possible in order that they would revive.
Bag end of net large "floater"

Tagged one King Crab

HCJ

ESTIMATED TOTAL CATCH	5500	SPLITS 4

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		50	50
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		100	-0-
Sculpin		50	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)		5000	99
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
King			2	20
Tanners				#20

OTHER ~~FISH~~ Sea pens & few spider crabs

OTHER INVERTEBRATES Lots of Basket stars & sea anemones

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/19/57	ESTIMATED TOTAL CATCH 450-500
DRAG NO. 42	GEOG. REF. 22 Miles Trawl West Sanak Is.	DEPTH RANGE 51-60	SPLITS No

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°28.9'	163°27.1'
End		54°27.1'	163°29.6'

COURSE Made Good 198°	SEA Calm	Start Net Out 1005	Cable All Out 1012
SCOPE 150	SWELL Slight SW	Net All In 1135	Start Cable In 1102
SPEED 2.6	TIDE Last of ebb	TOTAL TIME FISHED: 50 min	
WEATHER Sunny with High Clouds	SURFACE TEMP. 52.5	GEAR FISHED HOW? OK	
WIND SW 4	BOTTOM TEMP. —	INDICATE TROUBLE None	
AIR TEMP. 53	GEAR USED: 400 Westen as in drag # 41-Cr 32		
BARO-METER 30.01			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other: Basketstars

REMARKS:
Lots of Basketstars in net

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		40	10
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		150	10
Sculpin		45	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	3	9	-0-
Hake			
Lingcod			
Pollock	2	3	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				208

OTHER FISH

OTHER INVERTEBRATES Starfish, Seamenamer

HCD

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/19/57	ESTIMATED TOTAL CATCH 450-500
DRAG NO. 43	GEOG. REF. 23 miles West of Sanak Island	DEPTH RANGE 60-61	SPLITS No

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°22.2'	163°26.8'
End		54°20.2	163°27.1'

COURSE 180 Made Good 174°	SEA Calm	Start Net Out 1205	Cable All Out 1215
SCOPE 150	SWELL Slight SW	Net All In 1355	Start Cable In 1315
SPEED 2.1 K	TIDE Last of ebb	TOTAL TIME FISHED: 1 hr	
WEATHER Sunny High clouds	SURFACE TEMP. 54.5	GEAR FISHED HOW? OK	
WIND SW 3-10	BOTTOM TEMP. BT #23	INDICATE TROUBLE None	
AIR TEMP. 55	GEAR USED: 400 Western		
BARO-METER 30.02			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other: Basketstars

REMARKS: Worm casings
Bottom Type: Dark Green to Black Mud & Ooze

Lots of basketstars in net

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		50	15
Halibut			
~~Lemon~~ Rock "sole"	1	2½	100
Petrale "sole"			
~~Rex~~ Misc "sole"	Small	75	0
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		300	10
Sculpin		60	Pd Bait

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	3	9	-0-
Hake			
Lingcod			
Pollock	2	3	-0-
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#258

OTHER ~~FISH~~ Sea Pens (10) Hermit Crab

OTHER INVERTEBRATES (30) Starfish, Sea anemones - Clamshells

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO. 32	DATE 8/19/57	ESTIMATED TOTAL CATCH: 5	SPLITS: None
DRAG NO. 44	GEOG. REF. 28 miles Westerly of Sanak I.	DEPTH RANGE 59-61		

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 18.9'	163° 34.8'
End		54° 21.1'	163° 36.9'

COURSE 325 Mag Gyro 311°	SEA SW Mod.	Start Net Out 1430	Cable All Out 1436
SCOPE 150	SWELL SW Slight	Net All In 1610	Start Cable In 1536
SPEED 2.4K	TIDE 1/2 flood	TOTAL TIME FISHED: 1 hr	
WEATHER Hazy O'cast	SURFACE TEMP. 54	GEAR FISHED HOW? OK	
WIND SW 12-14	BOTTOM TEMP. —	INDICATE TROUBLE ?	
AIR TEMP. 55	GEAR USED: 400 Western ic Dry #41		
BARO-METER 30.01			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS: Bottom type Gr. mud & worm casings

Lots of basketstars & sea pens in net

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.

SHRIMP:	POUNDS	NO./POUND

Nothing

OTHER FISH

OTHER INVERTEBRATES: Approx 5# small sea bat starfish

HCJ

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/19/57	
DRAG NO. 45	GEOG. REF. 7 Miles Mag. South Cape Lagoref	DEPTH RANGE 54-58	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54°28.5	163° 41.1
End		54° 31'	163° 39.

COURSE 020° 012°	SEA SW Mod	Start Net Out 1707	Cable All Out 1717
SCOPE 150	SWELL SW Mod	Net All In	Start Cable In 1817
SPEED 2.8 K	TIDE Last of Flood	TOTAL TIME FISHED: 1hr	
WEATHER High Clouds	SURFACE TEMP. 53.5	GEAR FISHED HOW? OK	
WIND Water 12 SHD	BOTTOM TEMP.	INDICATE TROUBLE None	
AIR TEMP. 54	GEAR USED: 400 Western with 1½" mesh bag liner Two phillips floats rigged on tip rib line 3 feet above & below splitting strap rings.		
BARO-METER 30.00			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type: Green Mud
Net full of Basketstars
Lots of kelp also in fish bag

HCJ

ESTIMATED TOTAL CATCH	600 - 650	SPLITS No

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		40	50
Halibut 18" 12" & 55#	3	60	90
~~Lemon~~ Rock "sole"		25	90
Petrale "sole"			
~~Rex~~ Misc "sole"	Small	125	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		30	
Sculpin		30	
Blennys	10	10	

SHRIMP:	POUNDS	NO./POUND
Pink	1/2	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	18	45	-0-
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#278

OTHER ~~FISH~~ Scaurolines

OTHER INVERTEBRATES 28 large scallops, Hermit crabs

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 8/21/57	
DRAG NO.: 46	GEOG. REF.: 25 Mile SW 16 Sanak Is	DEPTH RANGE: 46-47	

POSITION:	Loran	Latitude	Longitude
Start	Radar &	54° 01.8'	163° 17'
End	Dead Reckoning	54° 00.8'	163° 17.1'

COURSE: 180° Mode Good 172°	SEA: SW Mod	Start Net Out: 0737	Cable All Out: 0742
SCOPE: 125	SWELL: SW Mod	Net All In: 0828	Start Cable In: 0812
SPEED: 2.2 K	TIDE: 1/2 Flood	TOTAL TIME FISHED: 25 min	
WEATHER: Clear	SURFACE TEMP.: 53	GEAR FISHED HOW?: Snag	
WIND: SW10	BOTTOM TEMP.:	INDICATE TROUBLE:	
AIR TEMP.: 54	GEAR USED: 400 Western rigged as in drag #45		
BAROMETER: 30.20			

HAZARDS:
- None.....
- Snag.....✓
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type: Gravel + Rocky
No damage to net

ESTIMATED TOTAL CATCH	100	SPLITS	No

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"	Mostly Small	50	5
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	2	2	-0-
Blenny	3	3	
Sculpin		10	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	1	2	-0-
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Sandfish	1	1	
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			
Red Rock		1/2	

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#6

OTHER FISH:

OTHER INVERTEBRATES: Sea Urchins 10#, Sponge 5#, Brittlestars

HCJ

OTTER TRAWL RECORD

VESSEL: Tordenskjold	CRUISE NO.: 32	DATE: 8/21/57	ESTIMATED TOTAL CATCH: 900
DRAG NO.: 47	GEOG. REF.: 25 Miles SW of Sanak Island	DEPTH RANGE: 54-60	SPLITS: No

POSITION:	Loran	Latitude	Longitude
Start	Radar 8	53°59.9	163°19'
End	Dead Reckoning SUNLINE & DF	54°00.1	163°23.8

COURSE: 270 Main Course 258	SEA: Mod. SW Chop	Start Net Out: 0847	Cable All Out: 0855
SCOPE: 150	SWELL: SW Mod	Net All In: 1030	Start Cable In: 0955
SPEED: 2.7 K	TIDE: Last of Flood	TOTAL TIME FISHED: 1 hr	
WEATHER: Clear	SURFACE TEMP.: 52.5	GEAR FISHED HOW?: OK	
WIND: SW 10	BOTTOM TEMP.: —	INDICATE TROUBLE: None	
AIR TEMP.: 54	GEAR USED: 400 Western rigged as in Drag #45		
BAROMETER: 30.23			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type: Gravel
Mostly small flat fish

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		80	10
Halibut			
~~Lemon~~ Rock "sole"		200	15
Petrale "sole"			
Rex "sole"	4	10	75
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		300	10
Sculpin		40	
Blenny		10	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	2	6	-0-
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate Prickley	1	5	
ROCKFISH:			
Pacific Ocean Perch			
Red Rock	1	1/2	

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#487

OTHER FISH

OTHER INVERTEBRATES: Basketstars - Brittlestars - Starfish

HCJ

OTTER TRAWL RECORD

VESSEL: TORDENSKJOLD	CRUISE NO.: 32	DATE: 8/21/57	ESTIMATED TOTAL CATCH: 200
SPLITS: NO			

DRAG NO.: 48	GEOG. REF.: 27 Miles SE of Sanak Island	DEPTH RANGE:	

POSITION:	Loran	Latitude	Longitude
Start	Radar &	54°06.1'	163°24.8
End	Dead Reckoning SUNLINE & D.F.	54°08.8'	163°25'

COURSE: 335 Made Good 338°	SEA: Slight SW	Start Net Out: 1120	Cable All Out: 1140
SCOPE: 150	SWELL: Mod SW	Net All In:	Start Cable In: 1240
SPEED: 2.6 K	TIDE: 1st of Ebb	TOTAL TIME FISHED: 1 hr	
WEATHER: clear	SURFACE TEMP.: 53.5	GEAR FISHED HOW?: OK	
WIND: SW 6-8	BOTTOM TEMP.:	INDICATE TROUBLE: None	
AIR TEMP.: 54	GEAR USED: 400 Western as per Drag # 45		
BARO-METER: 30.25			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type:

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 21" & 12	2	4	-0
Lemon "sole"			
Petrale "sole"			
Rex Rock "sole"		140	25
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		20	10
Blenny	7	5	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#42

OTHER FISH: Hermit crabs & sea snails

OTHER INVERTEBRATES: Few Basketstars & Brittle Stars

HEJ

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
Tridenskjold	32	8/21/57

DRAG NO.	GEOG. REF.	DEPTH RANGE
49	Approx 27 miles True South of Cape Lazarof	43-46

POSITION:	Loran	Latitude	Longitude
Start	Radar &	54°10.2'	163° 33.9'
End	Dead Reckoning &	54°10. '	163° 35'

COURSE	SEA	Start Net Out	Cable All Out
Mag Crse 227°	Wkly Mod	1400	1405
SCOPE	**SWELL**	**Net All In**	**Start Cable In**
125	Wkly Mod		1422
SPEED	**TIDE**	**TOTAL TIME FISHED:**	
2.4K	½ ebb	19 min	
WEATHER	**SURFACE TEMP.**	**GEAR FISHED HOW?**	
Clear	53	Hung up	
WIND	**BOTTOM TEMP.**	**INDICATE TROUBLE**	
SWly 10	—		
AIR TEMP.	**GEAR USED:**		
55	400 Western in Drag #45		
BARO-METER			
30.27			

HAZARDS:
- None.....
- Snag.....✓
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type
Starfish & basketstar in wings
No net damage!

Thus far our travels for King crab on Davidson Bank have been a failure in producing any King crab

NCJ

ESTIMATED TOTAL CATCH	50

SPLITS

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"		40	50
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot	4	6	
Sculpin	4	5	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanner				#1

OTHER FISH

OTHER INVERTEBRATES: Starfish - Sponge - Hermit Crab

OTTER TRAWL RECORD

VESSEL TORDENSKJOLD	CRUISE NO. 32	DATE 8/21/54	ESTIMATED TOTAL CATCH — 0 —
DRAG NO. 50	GEOG. REF. Approx 33 South of Cape Lazaref	DEPTH RANGE 42-43	SPLITS —

POSITION:	Loran	Latitude	Longitude
Start	Radar & Dead Reckoning	54°05.8'	163° 43'
End	Sunlines	54°03.2	163° 42.3'

COURSE 172° Made Good 159°	SEA Westerly Med	Start Net Out 1530	Cable All Out 1535
SCOPE 125	SWELL Westerly Med.	Net All In 1655	Start Cable In 1635
SPEED 2.5K	TIDE Low	TOTAL TIME FISHED: 1hr	
WEATHER Clear	SURFACE TEMP. 53	GEAR FISHED HOW? Snag	
WIND West 8-10	BOTTOM TEMP.	INDICATE TROUBLE Torn fish bag	
AIR TEMP. 55	GEAR USED: Western Trawl same as Drag # 45		
BARO-METER 30.28			

HAZARDS:
- None.....
- Snag.... ✓
- Torn web. ✓
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type: Hard rocky

May have torn bag when we hooked up at end of drag

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			
ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.

OTHER FISH

OTHER INVERTEBRATES 2 Starfish & Basketstar

H.C.J.

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/21/57	
DRAG NO. 51	GEOG. REF. 43 Miles SW of Sanak Is	DEPTH RANGE 46-50	

POSITION:	Loran	Latitude	Longitude
Start	Radar & D.F.	54° 00.9'	163° 46.6'
End		53° 58.2'	163° 49.

COURSE 202° Mid Good 195°	SEA Wdly Mod.	Start Net Out 1725	Cable All Out 1730
SCOPE 150	SWELL Wdly Mod.	Net All In 1905	Start Cable In 1830
SPEED 2.9 K	TIDE 1/2 Flood	TOTAL TIME FISHED: 1 hr	
WEATHER Clear	SURFACE TEMP. 54.5	GEAR FISHED HOW? OK	
WIND Wdly 10-12	BOTTOM TEMP. BT #28	INDICATE TROUBLE None	
AIR TEMP. 55	GEAR USED: 400 Western Trawl ic Drag #5		
BARO-METER 30.30			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other:

REMARKS:
Bottom Type: Blk Sand & Stones

Haul primarily Tanner Crab

ESTIMATED TOTAL CATCH 500 - 550 SPLITS NO

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut 16"	1	2	-0-
Lemon "sole"			
Petrale "sole"			
Rex Rock "sole"		70	30
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		30	20
Sculpin		10	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#405

OTHER FISH

OTHER INVERTEBRATES 1 large Box Rock Crab - 10 Starfish

HCJ

OTTER TRAWL RECORD

VESSEL	CRUISE NO.	DATE
TORDENSKJOLD	32	8/22/57

ESTIMATED TOTAL CATCH —

SPLITS —

DRAG NO.	GEOG. REF.	DEPTH RANGE
52	27 Miles W. of Tigalda	52-60

POSITION:	Loran	Latitude	Longitude
Start	D.F. &	53°46'	164°22'
End	Radar	53°47'	164°26'

COURSE	SEA	Start Net Out	Cable All Out
Mainscow 250°	SE Rough	0855	0915
SCOPE	**SWELL**	**Net All In**	**Start Cable In**
175	SE Mod.	1048	1005
SPEED	**TIDE**	**TOTAL TIME FISHED:**	
2.7 K	1/2 flood	1 hr	
WEATHER	**SURFACE TEMP.**	**GEAR FISHED HOW?**	
100% O'CAST		X doors	
WIND	**BOTTOM TEMP.**	**INDICATE TROUBLE**	
SE 18-20			
AIR TEMP.	**GEAR USED:**	400 Western Asin A 45	
54			
BARO-METER			
30.12			

HAZARDS:
- None.....
- Snag.....
- Torn web..
- Mudding...
- Abrasive..
- Other: X Doors

REMARKS:
Bottom Type:
Basketstars & starfish

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex "sole"			
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot			

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.

SHRIMP:	POUNDS	NO./POUND

OTHER FISH

OTHER INVERTEBRATES

OTTER TRAWL RECORD

VESSEL Tordenskjold	CRUISE NO. 32	DATE 8/29/57	ESTIMATED TOTAL CATCH 200
SPLITS None			

DRAG NO. 53	GEOG. REF. 13.5 miles true S. Unimak Bight	DEPTH RANGE 43-45	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 24.2'	163° 43.6'
End		54° 24.8'	163° 42'

COURSE 050° made End 059°	SEA SW Mod	Start Net Out 1125	Cable All Out 1135
SCOPE 125	SWELL SW Long Low	Net All In 1235	Start Cable In 1209
SPEED 2K	TIDE Low	TOTAL TIME FISHED: 34 min.	
WEATHER 100% Hi O'cast	SURFACE TEMP. 51.5	GEAR FISHED HOW?	
WIND SW 12-14	BOTTOM TEMP. BT # 30	INDICATE TROUBLE Hung up	
AIR TEMP. 52	GEAR USED: 400 Western I.C. # 45		
BARO-METER 29.87			

HAZARDS:
None.....
Snag.....
Torn web. ✓
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type: Rocky

Long rip along rib line but no web missing

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"		20	10
Halibut 12" & 17½"	2	4	-0-
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Rock "sole"		70	40
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		25	Bait
Sculpin		20	Bait

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	14	40	10
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.

SHRIMP:	POUNDS	NO./POUND

OTHER ~~FISH~~ Hermit crabs - Sea snails Approx Total 20 #

OTHER INVERTEBRATES. Sponge - Sea Urchin - Starfish Sea Anemone

HCB

OTTER TRAWL RECORD

VESSEL TORDENSKJOLD	CRUISE NO. 32	DATE 8/29/57	ESTIMATED TOTAL CATCH 400-425
SPLITS No			

DRAG NO. 54	GEOG. REF. 18 miles True South of Unimak Bight	DEPTH RANGE 58-60	

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 20.5'	163° 56.1'
End		54° 23.6'	163° 54.2'

COURSE 135° Made Good 133°	SEA SW Mod	Start Net Out 1455	Cable All Out 1500
SCOPE 175	SWELL SW Mod	Net All In 1642	Start Cable In 1600
SPEED 2.2 K	TIDE 1st of Ebb	TOTAL TIME FISHED: 1 hr	
WEATHER High Broken Clouds 80% o'cast	SURFACE TEMP. 52	GEAR FISHED HOW? OK	
WIND SWNY 18 to 20	BOTTOM TEMP. BT 30	INDICATE TROUBLE	
AIR TEMP. 54	GEAR USED: 400 Western i.c. Drag #45		
BARO-METER 29.82			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:
Bottom Type: Gr. Mud.

Mud on sides of doors & runners

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"	S Mist Small	40	
Halibut 12½" = 25¾" 18"-19½" 21½"	5	30	25
Lemon "sole"			
Petrale "sole"			
~~Rex~~ Misc "sole" Rock		120	30
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		40	20
Sculpin		40	20
Eelpout		8	

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)	5	25	50
Hake			
Lingcod			
Pollock 10"-11"		5	-0-
Sablefish (black cod)			
Eulachon	2		
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

SHRIMP:	POUNDS	NO./POUND

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#26

OTHER FISH

OTHER INVERTEBRATES Starfish - Batslaw - Hermit Crab

HCJ

OTTER TRAWL RECORD

VESSEL TORDENSKJOLD	CRUISE NO. 32	DATE 8/29/57	ESTIMATED TOTAL CATCH 100-125
DRAG NO. 55	GEOG. REF. 2 h miles True South Uniman Bight	DEPTH RANGE 53-57	SPLITS

POSITION:	Loran	Latitude	Longitude
Start	Radar	54° 12'	163° 55'
End		54° 10.5'	163° 51.6'

COURSE 140° Made Good 112°	SEA SW Mod	Start Net Out 1748	Cable All Out 1755
SCOPE 150	SWELL SW Mod	Net All In 2010	Start Cable In 1855
SPEED 2.2 K	TIDE 1st of ebb	TOTAL TIME FISHED: 1 hr	
WEATHER High O'Cast 60%	SURFACE TEMP. 50.5	GEAR FISHED HOW?	
WIND Swirly 18-20	BOTTOM TEMP.	INDICATE TROUBLE X Doors	
AIR TEMP. 49	GEAR USED: 400 Western ic. #45		
BARO-METER 29.82			

HAZARDS:
None.....
Snag.....
Torn web..
Mudding...
Abrasive..
Other:

REMARKS:

Net fished to some extent therefore doors may have been crossed high on dandelions.

Lots of basketstars & starfish plus small batstars

FLATFISH:	NO.	POUNDS	% M.
Butter "sole"			
Dover "sole"			
English "sole"			
Flathead "sole"			
Halibut			
Lemon "sole"			
Petrale "sole"			
Rex Misc "sole"	Small	50	
Slender "sole"			
Sand dab			
Sand "sole"			
Starry Flounder			
Turbot		10	-0-
Sculpin		10	
Sandfish	1	1½	

SHRIMP:	POUNDS	NO./POUND

OTHER FISH

OTHER INVERTEBRATES Sm. Squid

ROUNDFISH:	NO.	POUNDS	% M.
Cod (true)			
Hake			
Lingcod			
Pollock			
Sablefish (black cod)			
Dogfish			
Ratfish			
Skate			

ROCKFISH:			
Pacific Ocean Perch			

CRAB:	♀	Sm.♂	L.♂	lbs.L.
Tanners				#144

HCJ