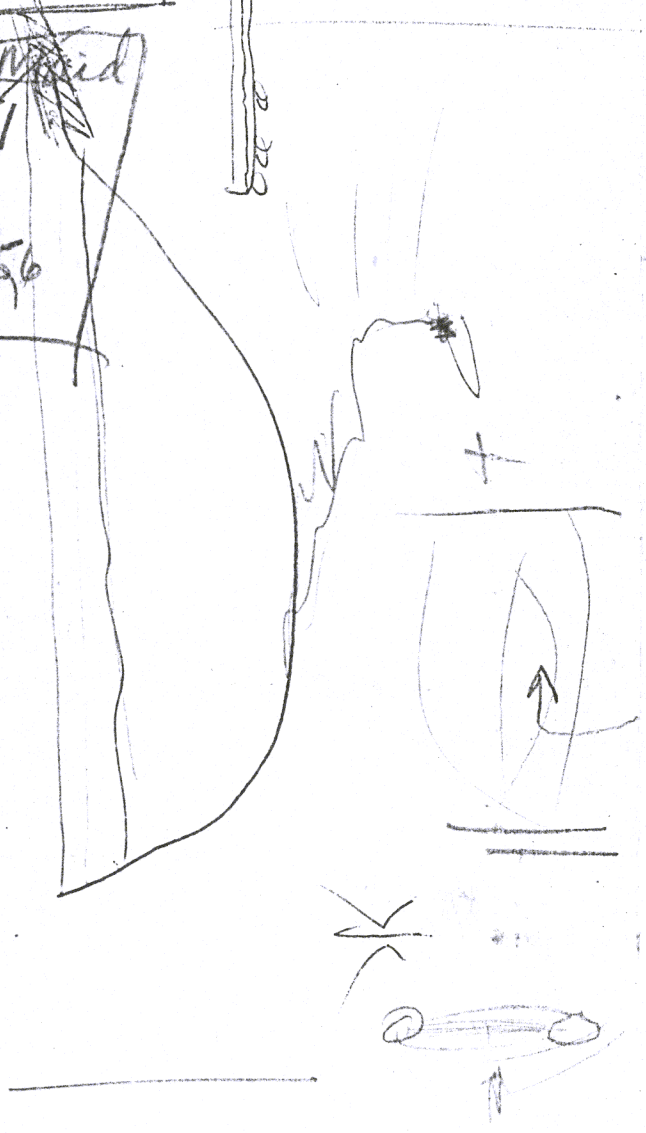
1956
L06

Tags 700 & 781
May 5 & 10, 1956
54 – 50 ft
56°30' x 161°48'

Nordic Maid
FWS 811
#6040
Sta 26
1-20-56

– Deep Sea



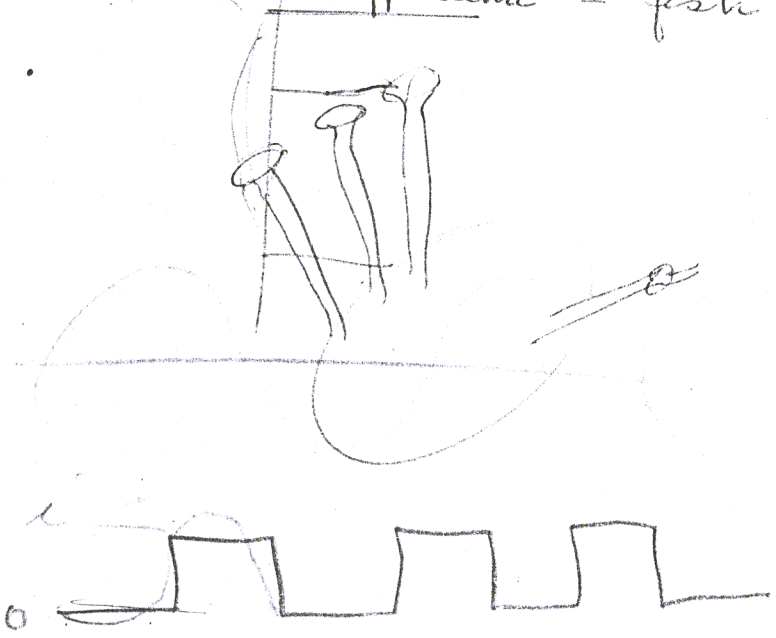
Parakeet

Parakeet

PARROT

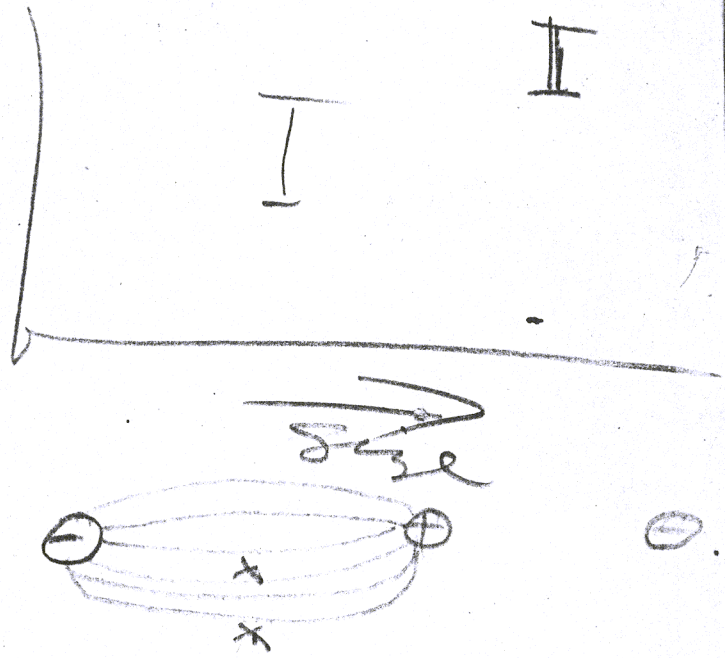
dolphin → PHOCA sp = mamal

Coryphaena = fish



50173
Manufactured by
U. S. Government Printing Office

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



Film - 4.25 6/17

Left Portland 6/17/56 7:30 P.M.
Plane fare 7.55
Sandwich 1.00
Film - 4.25

6/18/56
Left for Seattle airpt 6 am
Taxi 2.25
Bus 1.25
coffee .25
Lv. Seattle 7:30 a.m.
Arr. Juneau - 12 P.M.
Juneau - FWS office

6/18
Juneau - FWS.

6/19
Juneau - FWS

6/20
Juneau - Dept Anchorage 2 P.M.
arr Anch 5 PM

6/21
Lv. Anch 9 am. arr
Adak Hbr 4 PM

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

6-22-56
At Dutch Hbr -
Tordenskjold came in today
found small shed
Concer (magister probably)
of about 1" -
Tordenskjold took large
ripe herring in Bering Sea
in gill nets last week.

6-23
Unalaska - Penguin in
today & Tordenskjold left
for last station & Adak -

6-24
Unalaska
Small schools of 8" herring
in Bay for last few days
Saw a ball of crabs
ca 2-3" long at mouth of
creek - 100-200 ft
Went fishing with
Walter Diakanoff at
wide Bay, Eider point &
near Hay Island. Many
dollies by Eider point
feeding on Krill (?)
Shot 3 sea lions & caught
3 halibut.

6-25
Unalaska - still living
with Dove Munro &
Haddi Ajiwani (sp!)
tried night lighting
just after dark - saw
nothing (in 20 min) that
looked like crabs.
Weather has been fairly
flat, low clouds since
Thurs. when it was clear.
Haddi & Dove getting a
sockeye pero night -
also caught harbor porpoise
last night & large
Alepisaurus last week
(handsaw fish)

6-26
Trying for plane to Adak
low ceiling - may not
make it

So. Hutch Hbr. 6:00 pm
Arr Adak 9 pm with
Pete & Drillcove

6-27-56
Stayed at BOQ & went to
dock this Am. Mitkof &
Tardanskjold in. 3 Japanese
vessels arrived on 6-24

* 8 P.M. Schedule Japanese
Adak Time 3215 send -
& 2120 U.S. Listen

Reviewed cruise results
of all vessels to date &
arranged for even track
of fish

Eiko Maru -
Capt. S. Onozawa
Biol Y. Takahashi

Etsuzan Maru
Capt E. Nakagawa
Biol H. Ito

Tokuyo Maru
Capt. K. Yanoki (sp)
Biol. N. Otsuru OTSURU

= Jiu nona = [illegible]
Bim hy gorjuku 159 reds
goten sin = 5.7

Binne = Sockey 99

Eiko M. Tagged 444
227 Red
179 Cherry
17 Pink
1 K

6-28

Tordenskjold unloading at Adak.

Met with Japanese at Admin. Blg 1:30 P.M.

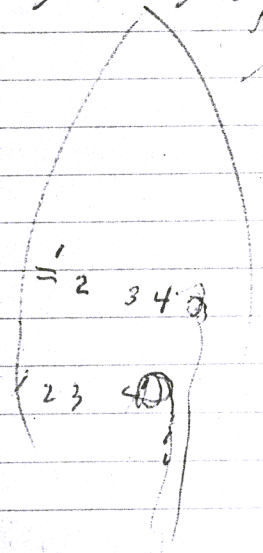
Japanese can stay as long as one week - want to know how long U.S. vessels available.

6-29

Set 80 T ar of 30 fath each between 10 & 10 & 20 ar. Made single nansen cast on B & W mile - hand powered - also 1/2 M vert plankton tow many copepods - 25 cc.

Cast mile net from short boom & rigged for surface tow with double block -

Bring net in on V sheave with idler - lead line on long hanging -



Pull cartos & stock by hand and pull net back down by passageway

1 hr 10 min hauling

3 fish (Sockeye)

vessel (Eiko maru)
carries 15 crew, 8 students,
1 teacher & 1 biologist
Vessel has voice & cw
radio, radar, wind dir/vel,
no auto steering or loran
windshield wiper, direct
engine controls & no signal
controls, variable pitch
propeller.

Set nets from stern
roll over humped roller
to spread leads & corks -
man on each stern quarter
in outboard racks with
sticks to keep net straight
set at 7 knots ± & looks like
a dangerous situation - men
working in well can tangle
& go over with net - there
were 3 in well

for hauling have a 30' (ca.)
v sheave with idler
at left forward end of well
deck ahead of house. Vessel
runs up on net and jerks
like tuna long line.
Had long lead line hangings
to a double lead line - L & R
lay bound together so that
net doesn't come through
hauler - pull corks by
hand - this spreads net
so fish are easily removed
The net is then pulled
across deck to Starboard
~~so that~~ and lines coiled.
Coils are reversed & net
is dragged down companion
way to stern & stacked - they
have high portable rollers
to keep net off companionway
deck.

6-30-56

Tardinskjold unloaded & boxed most of fish yesterday will get remainder out monday 7/2 - Took 12 japanese out on our two vessels ~~&~~ today

7-1

~~Sunday~~ ~~Saturday~~ - saw fish hatchery - got some good looking 1 & 2 yr old steelhead showing about some growth as Marion Forks - water seldom breaks 50° & drops to 32 - Island is really hot for fishing - the personnel are, that is. Have about 20,000 2 yr fish - all in troughs -

~~7/2~~

Neave, Peterson & Kasahara departed for anchorage - moved aboard Tardinskjold -

7/2

~~K~~ Completed unloading fish & Transfer of samples to Japanese -

7/3

Taking oil for departure -

See Tak

1. Cruise plan
   a. consider replicates

~~2. Consider Taks departure~~
   ~~a. Tokei maru~~

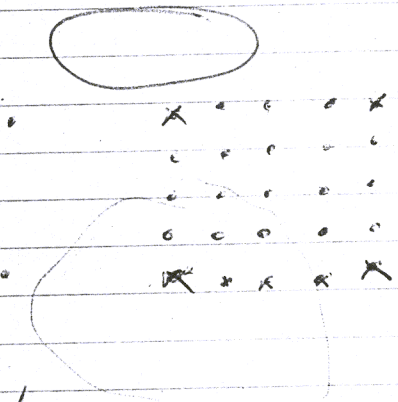
2. Arrangement for Tokei Maru
3. Arrange Cumshaw Taks Dept.
4. Revise station order to meet Plane & Tokei
5. Review Charted
   a. July 10 comp. 6/26 1st day
   b. hours fishing
   c. days off

C D E F G H I J K L M N O P Q R S T U V W X Y Z

6. Review plans & obs
   a. Tagging
      nos. dist. type
   b. Life hist obs
   c. Length freq.

7. Plan for Cruise &
   Relief
   a. = Experienced man
      no one aboard

Tentative Schedule



7 days 52

12 day

C D E F G H I J K L M N O P Q R S T U W X Y Z

Dray obs.

1. Depth Pos. time
2 Catch in gen.
3 catch of crabs
a. measure all –

4 missing legs
3 Shell cond.

No oil Adak –
Waited all day July 3d
Wire to Kodiak 2d
town D.C. 1100 7/3

7/4/56

Le Adak 7:10 Am
for Unalaska

~~7/5~~ 7/6

Arrive Dutch Hbr 9 AM

Spent the day removing gill nets, building racks and racking and hanging nets.
~~Skipper~~

7/7

Put on trawl, spliced lines & got ready for trawling. Penguin in Dutch Hbr taking oil. Did same clutch repair work and tuned radar.

7/8

Left Unalaska for sta 1 via Ugadaga Bay & Beaver Inlet) and Akutan. Dropping Brown off at Ugadaya Bay with Wes & Mrs. Polly McLaughlin at Akutan.

Have determined a 26 station plan + 1 by Atka; 1/2 & 1 hr tows alternating; will expand pattern to get crabs to tag & define stock when we hit crabs.

C D E F G H I J K L M N O P Q R S T U V W X Y Z

Take Hydro station
at each of 27 stations,
and B.T. Take more
BT's in region of change

Left Akutan 5 P.M.

Tags #4000 to 5799 inc.
placed on with
Elsvington plastics tubing
XTE-30 size 14
Fibron tubing, bright
yellow

7/9
Station 1 - Calm, Clear

217 Total L Smelt T. pac.

Set gear over at 8:15 ran off
cables to lay on drums
8:50 Cables back & began towing
9:35 net aboard
Towed 355° true
Set Lat 55° 32'
Long 163° 10'
Water 6.58 air 54 at
10 am.
Dragged 32 f to 32 f
about 3000 pound lift
27 male King
19 female "
148 Harry
328 Tanner
800 Sole
100 Star
1 cod
5 hake

Tagged all of male King
most of them seemed in
fair shape for meat

(7-9)

Sta 2
Gear over at ~~1:20~~ 1:18
(dogged down)

Gear up 1:48 (Start hauling)

King crabs male 19
f 5
Hairy 8
Tanner 90 ✓
Sole 150
Starfish 12
Sponges 300#
Cod 6 small
Hake 94 ✓
Bullheads 15
Turbot 2

Fog - wind NW 10 mph
Surface 6.45°
air 48°

Position 55°46' x 163°35' E
Dragged 47° T
48 f water

(7-9)

Sta 3
Gear ~~over~~ down 17:14
Started hauling 17:45

King crabs 17 male ✓
3 female
Hairy 27
Tanner 55
Sole 200#
Starfish 15
Sponge 200#
Cod 15 small
Hake 65
Halibut 1 sm -

Surf 6.6 air 44°
Towed 150° T
45 f to 46 f
Started 56°N x 163.10°E

Hansen having trouble
with B.T. slides peeling -

Dropped hook on
Sta 4 at 21:50

C D E F G H I J K L M N O P Q R S T U V W X Y Z

7/10/56
Sta 4 - Tordenskjold

Gear down 06:37
Start Hauling 07:07

Air 41 water 6.0°
wind NW 10
32 f
Position 55°46' X 162°45' E.
Dragging 45° T

King Crabs	21 males
	26 f
Hairy	20
Tanner	36
Sole	500#
Starfish	100# (Baskets & others
Hake	8
Bullhead	12
Cod	6
Skate	1

4

(7-10)
Sta 5
Gear down 10:10

Position 56°00 x 162°20'E
Calm
37 f
Temp surf 7.02 Air 46°

King Crabs	
males	48 (RL, 295mm)
Females	15
Hairy	12
Tanner	25
Sole	200#
Starfish	30 large
Turbot	2
Hake	7
Bullhead	+
Halibut	2 (17"±)

Tagged from sta to ca 3 mi
on way to sta 6.
Tag nos. 4038-4073

5

C D E F G H I J K L M N O P Q R S T U V W X Y Z

(7-10)

Sta 6

Gear down 14:10
Start Hauling 14:40
Tow 150°T
Position 56°14' X 162°45'
Calm fog
Surf 6.4° Air 48°
King Crabs (2) 2 males
2 females

Hairy	12
Tanner	23
Sole	200#
Starfish	15
cod	1
Hake	7
Bullhead	3
Hermit Crabs	35

Tagged 4074-4075

6

1

(7-10)

Sta 7

Gear down 17:32
Start Hauling 18:02
Towed 135°T
Position 56°28' x 162°15'
wind nw 5 fog
39 fathoms
Surf 5.08° Air 43°

King Crabs	63 males
	15 ♀
Hairy	11
Tanner	20
Sole	200 lb
Hake	2500 #
Cod	1
Bullhead	9

Tagged crabs for first 3 miles from Sta along 135T

Tag nos. 4077 to 4099
4200 to 4218

Measured all crabs (King) taken Sta 1-7

7

D E F G H I J K L M N O P Q R S T U V W X Y Z

(7-10)

ATKINSON
FWS - 2725 MONTLAKE BLVD.
SEATTLE

TORDENSKJOLD HAS COMPLETED CHARTER FOR PERIOD JUNE 26 TO JULY 10 IN ACCORD WITH TERMS OF CONTRACT. ~~ACKN~~ CONFIRM RECEIPT OF MESSAGE.

CLEAVER

Filed 7/10/56
8:20 P.M. with
ACS Cold Bay ALB66

Anchored on Sta 8 at
9 P.M. Current running to
N.E. at 3+ knots

7/11/56

Sta. 8
Gear down 06:45
Start Hauling 07:15
Towed 310°T
Position 56°13' x (162°52') start
? question this position should be 56°13'-161°52' H.H.S. 2-12-60
Surf. temp 6.37 Air 47°
Depth 37f

King Crabs 22 ♂
72 ♀

Harry	76
Tanner	9
Hermit	12
Sole	200#
Hake	12
Skate	4
Turbot	18
Cod	1
Sponge	50#
Starfish	5
Sea Lions	300
Halibut	1 sm (4231

Tagged 4219 to 4230

8

D E F G H I J K L M N O P Q R S T U W X Y Z

(7/14)

STA 9

Geardown 10:03
Start Hauling 10:33
Towed 115° T

Position 56°28' 160°30'
We Try to drag across station

air 45° Surf 7:1 wind NNE 5
calm, foggy
33 fath of water

King Crabs (63) males
51 females

Hairy 8
Tanner 4
~~Halibut~~ 1 sm (4292)
Sole 100
Hake 3
Turbot 23
Cod 1 #
~~Sponge~~ 75
Starfish 6
Bullhead 2
Skate 2
Jellyfish 10

(Sta 9 cont)

Tagged 4232 - 4291
mostly large old shelled
males Barnacles, hydroids
etc on shell; 4 new or
shedding -

(7/11)

Sta 10

Gear down 13:20
Start hauling 13:50
Towing 145°T

1 ~~Position 56°22' x 161°20'~~
2 " 56°14' x 161°05

air 49° Surf 6.10

Kingcrab 19 ♂ 5+
25 ♀
Tanner 2
Skate 3
Starfish 170
herring 1
T. paupers 1
Bullhead 6
agonid 30
Sole 400#
Halibut 8 (3 on #4299 / 4 on #4298) 1 [illegible]

Tagged 4293-4297 on Sta

ALD33 Recd 7:20 PM
7-11-56

L-1
Che 112360

Atkinson
FWS - Seattle

Your Tordem
Cleaver M/V Tordenskjold

Re UR ~~Lapper~~ letter suggest

return Seattle after
crab cruise to prepare
for national section
meeting in September
p.d. Hanavan will
meet you Unalaska
24 or 26 pd x Expects
to accompany Tordenskjold
to Pribilofs

D E F G H I J K L M N O P Q R S T U V W X Y Z

1 10

(7-11)

Sta 11
Gear down 16:54
Start Hauling 17:24
Towed 305° T

Position 56°28' x 160°40'
wind n. 25 mph
Surf. 4.8 air 48

1000

King male 19 Males
female 38
Hairy 45
Tanner 6
Sole 400#
Starfish 36
Sponges 400#
Cod 7
Bullhead 20
Halibut 7 ons

Tagged nos. 4300-4312

Females largely newly shed —

11

(7-12)
Station 12

Gear down 07:14
Start Hauling 07:44
towing 275° T

Sea rough wind E 20-30 mph
36f Surf 3:88° air 43°
Position (1) 56°42' x 161°05'
(2) 56°42' x 161°09'

King Crab ♂ 41 (tagged 34)
♀ 104
Hairy ?
Tanner 2
Sole 300#
Cod 2
Bullhead 3
Sponges 75#
Skate 1
Football 1
Basket Star 15

Tagged 4305 to 4348
Females all pretty new or ready to Shed. Males mostly large & old shell

12

D E F G H I J K L M N O P Q R S T U V W X Y Z

7/12

Sta ~~#~~ 13

Gear down 11:50 AM
Start hauling 12:20
Tow 330°T.

Sea rough E 20-30
36f. ~~Surf 3.88° Air 43°~~
Surf 3.45 air 52
Position ~~56° 53' x 161° 09'~~
56° 53' x 160° 45'
King Crabs ~~41♂ + 104♀~~ 45♂, 76♀
Hairy 11
Tanner 1
Sole 200#
~~Basket Star 15~~
Cod 5
Bullhead 3
Sponge 75#
~~Skate 1~~
~~Flatfish 1~~
Halibut 1 sm (#4379)

Tagged #4349 - 4318

13

(7/12)

Sta 14

Gear down 15:35
Start Hauling 16:05
Towed 305°T
400# eft
3.4f mod. sea wind E. 5 m/h
Surface air 47°

Position 57°10' x 161° 06'

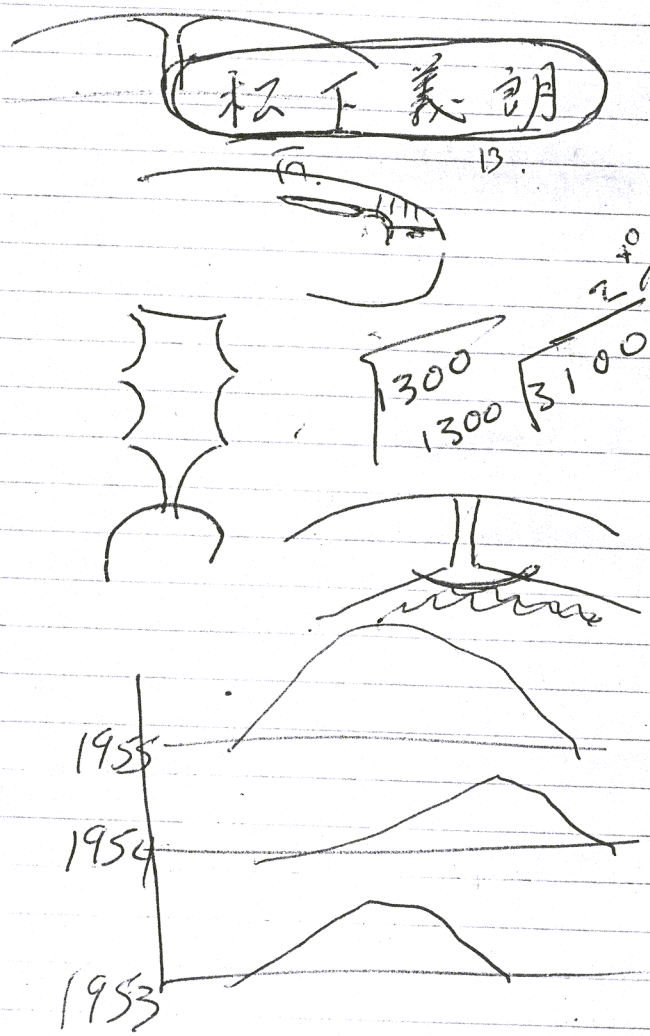
King Crab 14♂ + 16♀	= 30
Hairy	14
Tanner	2
Cod	2
Onions	100#
Sole	175#
Skate	4
Footballs	3
Bullheads	26

14

D E F G H I J K L M N O P Q R S T U W X Y Z

7-13
Aboard Tokei Maru
Capt. Uchimose
Mr. Sakonji — Nippon Suisan
Y. Matsushita

松下義朗



Many baby crabs in Sea from June 10 – 23d – off Port Moller

L – W	
4000	– 1956
4500	– 55
2800	– 54

150 mm smallest

8/100

Mr. Sakae Sato
Hokkaido Fisheries Laboratory
Yoichi-machi
Yoichi-machi, Hokkaido
Larval rearing
now on Sardine & Groundfish

Fishery inspectors measure crabs on other expeditions

Mr Domon – Hokkaido Exp. Sta. on crabs.

Check on Russian Crab Res. Papers

Biol. Research Sec. Seiwa Kawasaki
Fisheries Agency
2-2 Kasumigaseki
Chigodaku Tokyo.

E F G H I J K L M N O P Q R S T U V W X Y Z

7/14
Sta 15

Gear down at 15:25
Start Hauling 15:55
Towed 135° T
3000# lift
Position 57°23' x 161°30'
26 F Calm Fog
Air 48°

King Crabs - 13 ♂
13 ♀
Sea Horse 6 (aground)
(4395 4396) → Halibut 5 small

Sole 1700
Skate 1
Bullhead 18
Basket Star 300#
Onions 50#
Lemon sole 30#

Tagged 4388 - 4394

Caught zoea in surface tow

15

Filed 7/15
09:30
Unalaska

C.E. ATKINSON
U.S. FWS
2725 Montlake Blvd.
Seattle, Wash.

Have completed 16 crab stations. CRABS have been old shell or light weight. Spent two days on Tokai Maru. ~~Crabs~~ Their crabs appear same ex TORDENSKJOLD WILL ~~MEET~~ be at Unalaska by 24th. Need salmon tags for next cruise.

CLEAVER

Hanavan - FWS - 2725 Montlake
DID YOU RECEIVE ~~NOTIFICA~~ MESSAGE RE JUL 10 COMPLETION OF CHARTER PERIOD.

E F G H I J K L M N O P Q R S T U V W X Y Z

7-15-56

Sta 16

Gear Down 6:20AM
Start Hauling 6:50AM
Towed 150°T

Position 57°09' x 161°55'
Surf. 5.4 Air 4.8
Wind NW 20 Sea mod
Ca ~~3000~~ 2500# lift

10

King crabs 1168+40# = 156 ✓
Hairy 8
Sole 1800#
Starfish 25
Basket " 55
Onions 10#
Bullheads 8
4438 4437 Halibut 2 sm

Tagged 4397-4436

Crabs mostly small - 130-150 mm, new shell; Females new with eggs but not soft.

16

Aboard Tokei maru discussed tagging with S. Kawasaki - he expressed opinion that our tag tubing was perhaps too coarse (1956) and his wire too thin. He has had few recoveries apparently and has tagged none this year. Two recoveries from 54 tagging so far (his tags) he gave me 31 tags from their 56 catch which Tak put out in '55.

He samples small samples 20± crabs from a catch & gets a total of several thousand per year; using same points of measurement as we are.

Tokei had 2 scout vessels 65± tons & 8 Kawasaki boats. Sling aboard overnight. Crabs come into Tokei ~~of~~ over port stern.

E F G H I J K L M N O P Q R S T U V W X Y Z

(7/15)
Sta 17

Gear down 10:05
~~Start~~ hauling 10:35
185° T towed for haul
500# lift
Position 56°56' x 161°30'
33F Seamod wind NW 15
Surf 5.1° air 51°

King Crab	22♂ + 10♀ = 32
Hairy	6
Tanner	2
Sole	300#
Cod	1
Halibut	1 rid.
Starfish	25
Skate	2
Turbot	2
Bullhead	5
Onions	20#
Spongls	50#

Tagged 4~~3~~4 39 - 4~~3~~4 47

Crabs all new shell
mostly small

17

(7/15)
Sta 18

Gear down 13:47
Start hauling 14:17
500# lift

probably 41'

Position 56°31' x 161°55'
Surf. 6.4 air 47°

King Crabs	39♂ - 6♀ = 45
Hairy	8
Tanner	4
Sole	200#
Starfish	10#
Bullheads	7
Onions	10
Sponge	10
football	2
Cod	1

Tagged 1448-1463

Crabs mostly new shell -
small

18

F G H I J K L M N O P Q R S T U V W X Y Z

chipped blank page

7-15
Sta 19

Gear down 18:46
Gear hauld 19:16 (?)
towed 210 T
about 1000# left
Position 56°55' x 162°20'
Sea rough wind nw 15 j fog
Surface 5.35° Air 42
King Crabs 121 ♂ 5 ♀ = 126
Hairy 4
Tanner 2
Sole 500 #
Bullhead 6
Snails 12
Hermit crabs 25
Skate 6
turbot 7
Cod 1

Tag numbers 4464-4532

All crabs new shell -
Many 120-140 width

19

Cold Bay - ALB 66
for Atkinson
FWS - Seattle
to Cleaver
FWS
Tardenskjold
Cold Bay Aak
Received message re charter x Voucher has been forwarded for payment x part or all of it next charter period be paid under original contract x Will notify when new charter will go into effect x

Rcd 7/16/56
0845

F G H I J K L M N O P Q R S T U V W X Y Z

7/16

Sta 19A (Carl's 19B)

net down 06:40
Start lifting 07:10
Towed 195° T

~~36~~ Position. 56°48' x 162°33'
33f - 36f, air 42° Surf. 5.2°
Sea moderate wind NW 10

~900# lift

King crabs	47 ♂
Hairy	3
Tanner	14
Sole	500#
Basket Star	12
Star	12
Skate	1
Turbot	2
Hermit crab	6

Tagged 4533-4560 - no females in haul; crabs all new

20

(7/16)

Station 20

Gear down 0910 5
Start Hauling 09:35
Towed 228° T

~~450~~ ~~400~~ # in lift

Position ~~56°48'~~ 56°41' x ~~162°33'~~ 162°45'
38f Sea mod. - fog wind NW 15
air 46° Surf 6.08°

King crabs	9 males
Hairy	1
Tanner	11
Sole	250#
Starfish	32
Flatfish	1
Skate	1
Turbot	12
Hermit crab	16
Bullhead	8
Basket Star	6

Tagged 4561 - 4569

21

F G H I J K L M N O P Q R S T U V W X Y Z

(7-16)

Station 21

Gear down 12:52
Start picking up 13:22
Towed 90° T
600# lift

Position 56°55' X 163°11'
37f Surf 6.1 Air 47° fog wind NW 10

King Crab	4 ♂
Tanner	63
Sole	150#
Snails	300#
Basket Stars	15
Turbot	10
Serpent Stars	200 (no)
Skate	2
4574 Halibut	1 sm

Tagged 4570 to 4573

(7-16)

Sta 20A

Gear down 15:47
Start Hauling 16:17
1000# lift
Position 56°55' X 162°45'
33f Sea smooth fog wind NW 5 mph

King Crabs	49 all males
Tanner	33
Sole	600#
Starfish	72
Skate	1
Cod	1
Basket Stars	12
Lemon sole	50#
Bullhead	6
Turbot	11

Tagged 4575 to 4621

all new shell males mostly
fair sized

7-16

Sta 19B (Carls ~~20B~~ 19C)

Gear down 18:40
Start lifting 18:40
Towed 75°T
1300# lift

Position 57°02' x 162°03'
32f Sea smooth fog wind NW 5 mph
air 45° Surf 6.35

King Crab	26 ♂ no ♀
Hairy	1
Tanner	4
Sole	1000#
Starfish	310
Basket Stars	15
lemon sole	75
Bullhead	29
Snails	33
hermit	21
Lipwind	1
Skate ♂	3

Tagged 4622-4645
crabs new shell
rather light some soft
one ♂ w/out tag - 102 x 177 mm. New shell.

24

7/17/56

Sta 16A

Gear down 06:38
Start lifting 07:38
Towed 160T

Took 1 large split & lift 4000+#

Position 57°09' x 162°20'
30 to 27f calm fog -
Surf 4.97 air 42°

King Crab	224♂ + 16♀ = 240
Hairy	2
Sole	3000#
Small stars	500
Bullhead	30 no
Cod	1
Skate	1

Tagged 4646-4733

Crabs mostly new or bright shelled males - seemed mostly light; just counted small & broken & discarded

25

G H I J K L M N O P Q R S T U V W X Y Z

7/17
Recd 14:30
From Humason
To Cleaver

Will arrive Unalaska
26th with Webber to replace
you and Hill to replace
Tanonaka. I'll plan to
accompany Tordenskjold
from 170° West to Pribilofs.

(7/17) *

~~Haul #1~~ 19-B haul #2

Gear down 09:28
Start Hauling 10:28
Towed 225° T
estimate 15,000# of crabs in
net, little else
depth 31
Sea Smooth, fog air 50° Surf 51.5°

Position 57°02' x 162°17'

Tagged 4734 to 4750

Net too heavy to reach
splitting slowly; had to
cut net to get ~~crab~~ net
back aboard; attempted
to save a bag full (~~of~~ a lift)
but they escaped & quite
a few broken; new shells
all males from est. 75 mm
to 230 mm width.

26

G H I J K L M N O P Q R S T U V W X Y Z

(7-17)
Sta 19B haul #3

Gear down 14:17
Start lifting 14:47
Towed 342°T
about 10,000# lift 95% crabs
5 splits & a lift.

Position: 57°07'x 162°16'
32f sea mod wind SE10
Air 46° Surf 6.35°C

King Crabs 1361 ♂ & 2 ♀
Sole 1400#
Bullhead 45
Starfish 300
Shats 6
Tagged 4751 – ~~4816~~ 4813
4900 – 4901
5000 – 5338
Cards for shortation 4800's & 4900's

Crabs new shelled, soft
in poor condition for
tagging.

27

GOVT. RATE

TO C.E. ATKINSON
U.S. FISH & WILDLIFE SERVICE
2725 MONTLAKE BLVD.
SEATTLE WASHINGTON

Caught 30,000 pounds crab yesterday. Tagged 509. Crabs new shell lightweight. Position 57°07'x 162°16'.
Carl Servold requests expedition of charter payment. Please do anything you can to expedite.
Cleaver

Sent via Cold Bay
08:45 7/18/56

G H I J K L M N O P Q R S T U V W X Y Z

7/18
Sta 19B Haul #4

0700 Gear on Bottom
07:25 Start hauling gear
Towed 320 ft
about 1200# lift
Sea mod. wind SES
Surf 6.1 2 air 45° 32½ f

Position 56°59'X162°15'

King Crab	122♂ 5♀ = 127
Hairy	5
Tanner	1
Sole	800#
Starfish	200#
Bullheads	11
Basket Stars	20

Tagged 5341–5376 on Sta

7/18
Sta 19B haul #5

Gear down 08:18
Start lifting 08.45

about 3000# lift
Air 48 Surf 6.3° wind SES
Sea smooth

Position: 57°02' x 162°18'

King Crab	♂ 174 + 6♀ = 180
Hairy	3
Tanner	2
Sole	1700#
Starfish	200 (nw)
Bullhead	30 "
Cod	1 "
Skate	3 "
Turbot	15 "

Tagged 5377 to 5449

Opened 2 bullhead found
1 king, 2 tanner, 1 sole

Tokei Maru at
57°33' x 161°45'
Fishing poor (7-17-56)

at 57°37' x 161°40'
on 7-16-56 - good
fishing - 14,000 crabs

on 7/15 14,000 also

on 7/14 57°28' x 161°27'
Poor fishing 7,000 crabs

7-18
Sta 19B - Haul #6

Gear down 10:05
Start lift 10:29
towed 30° T
1500# lift
Sea mod, winds SE 5 31f
Air 50° Surf. 6.78

Position 57°03' x 162°18
King Crab 105 ♂ + 1 ♀ = 106
Hairy 3
Sole 1000 #
Bullhead 9
Starfish 100
Turbot 5
Skate 1

Tagged 5450 - 5506

30

H I J K L M N O P Q R S T U V W X Y Z

7-18-56

Sta 19B - Haul #7

Gear down 11:07
Start lifting 11:37
Towed 1 40 T.
3500# in net 1 split & a lift
Air 50° Surface 6:15°
57°02' x 162°20'
(Sun line & Loran

King Crab	456 ♂ + 14 = 457
Hairy	5
Tanner	2
Sole	2000#
Halibut	1
Bullhead	14
Turbot ✕	3
Starfish	400

Tagged 5507 - 5659

(7/18)

Sta 19B - Haul #8

Gear down 14:10
Start lifting 14:40
About 4500# in net

Air 53° Surf 6.52° Wind SE 5
31 fathoms
Position 57°02' x 162°20'

King Crab	799 ♂ 47 = 803
Hairy	8
Sole	1400#
Small Stars	600
Bullhead	23 ns
Turbot	30
Skate	8
Cod	1

Tag 5660 to 5924

Crabs mostly new shell may be damaged from handling

H I J K L M N O P Q R S T U V W X Y Z

(7/18/56)

190 - Haul #9

Geardown 17:40
Start lift 18:10
Toward 300° T
1500# lift
air 49° 6.42° wind SE 5 mph
31 f
Position: 57°02' x 162° 18'

King crab 163 ♂ + 22 ♀ = 185
Hairy 19
Sole 900#
Bullheads 15
Stars 200
Basket " 30

Tagged ~~5804 - 5~~
5925-5965

Beginning 5800 to 6300
String on soft plastic
Urvington Plastics #6539
Size #14 - yellow (pale)

33

Very Bad Tokei Maru
Crabs moving north

57° 43' N x W 161° 32'
7000 crabs

C.E. ATKINSON
U.S.F.W.S. - 2725 Montlake Blvd.
SEATTLE, WASH.
Tagged 628 crabs
July 18 at 57°02' x 162°18'. Departed for station 22. ETA Unalaska July 22 to mend and change gear.

Cleaver
Fwd 0900 7/19/56

H I J K L M N O P Q R S T U V W X Y Z

7-19-56
Station 22
Set Star 09.53
Start lifting 10.23
Towed 307°T
about 800# left
air 47° Surf 7.5° wind SE 14
Sea choppy; depth 38 f

Position 56°41' x 163°35'
King crabs 3 ♂
Halibut 7
Tanner 91
Snails 400 (ap.)
Sole 20#
Skate 1
Starfish 12
Bullhead 9
Cod 5 * Snail eggs

Tagged 5967-5968

Do it

34

7-19
Recd 14:30
Miyahara
Cleaver
Webber and Hanavan will be in Unalaska on July 24. Hanavan plans to board Tordenskjold for 3 salmon Stations and disembark at St. Paul.

I J K L M N O P Q R S T U V W X Y Z

7-19

Sta. 23

Gear down 14:05
Start Hauling 14:35
Towed 242° T
400# lift
42 F Sea mod wind SE 10 mi
Air 48° Surf 7.6 2

Position 56°28' x 163° 10'

King Crab	98
Hairy	1
Tanner	17
Sole	200#
Snails	200 -
Sea horse	25
Skate	1
Starfish	1

Tagged 5969 - 5974

(7-19)

Sta 24

Gear down 18:05
Start hauling 18:35
Towed 287 T
about 900# lift
Sea light to moderate wind SSW-5
Air 46° Surf 8.4° depth 45 f -

Position 56°14' x 163°35'

King Crabs	34 ♂
Tanner	17
Sole	400
Started	400 (no)
Snails	300
Rake	4
Bullhead	10
Cod	1

Tagged 5975 to 5997

Did not measure random samples on 7/17 or 18 except first haul on 7/17; Measured all crabs caught on 7-19-56

7-20
Sta 25.

Gear down 0613.5
Start Lifting 0710.5
Towed 355 True
about 1000# Left
Sea mod. Light rain wind SE 15
Air 46° Surf 8.0° Depth 43f

Position 56°28' x 164°00'

King Crab	25 ♂
Tanner	35
Kelp Crab	10
Snails	300
Snail Eggs	5#
Sole	400#

Tagged 5998-6021
Crabs seemed more firm than last 6 or so stations

Miscarded tags 6006, 6008 read other way

7-20
Sta 26

Gear down 1010.5
Gear Hauled 1013.5
Towed 75° T
about 1000 # Left
Air 48° Surf 8.2° 45 faths
Sea mod. wind SE 15 mph

Position 56°15' x 164°25'

King Crabs	51/54 ♂
Tanner	24 ♂
Sole	200 #
Snails	500 no
Stars	20

Tagged 6022-6078

Miscarded tags 6006, 6008 etc - Crabs better cond. & larger.

7/21
Arrived Unalaska

7/22
Cleaning Boat

7/20/56
Sta 27#

Set Gear 18:15
Start lift 18:45
Towed 230' T
about 800# lift

Air 46° Surf 8.35° Depth 46°
wind NE 10 mod sea

Position 56°00' x 164°00'

King Crab	82♂+2♀=83
Tanner	27
Sole	100
Stars	100
Cod	4
Hake	4
Snails	100
Kelp crab	6
Skate	4

Tagged ~~609~~ 6079 to 6147
discarded symmetrical nos
6086, 6089, 6096, ~~6098~~,
6099; crabs fair for
meat.

39

7/-20-56
left for Unalaska 20:00

7/21
Cleaned up Boat
Arr. Unalaska 17:00

7/22
Cleaned up ship

7/23
Worked on Gear

7/24
Worked on Gear
Mitkof arrived this Am.
Pinks in some numbers
have been in Unalaska
Creek for a week now.

I J K L M N O P Q R S T U V W X Y Z

7/25
worked on Gear
Hanavan, Hill & Weber
arrived this a.m. El
moved off Tordenskjold

7/26
waiting for plane - windy

7/27
Waiting for plane - windy
Tordenskjold left in evening

7/28
Left Unalaska 1: P.M.
Arr Anchorage 7: P.M.

7/29
Lv. Anch. 7:30 Am
Arr Seattle 5:00 P.M.

9/23/56
To Paulsbo to pickup
tags, etc. Lv. 11:30 ret.

Ferry Fare - Car & driver
Round trip - $3.00

Trot line - Mr.
Shields

I J K L M N O P Q R S T U V W X Y Z

depth	wire out		
25 f	75	100	–
30 f	75	100	125
35 f	75	100	125
40 f	100	125	150
45	100	125	150
50	125	150	175

10-10-56

Left Seattle-Tacoma 12 noon

arrived Juneau 6:40 PM

10-11

Woods hole camera for scallops – repairs of woods hole ocean inst contract with massachusetts

Reed Stevens ADF-Kodiak

Leave Juneau 8:15 P.M.

arr Anchorage 5:30 P.M.

10/12

PI Rocky 2383

Lv Anch 730

arr. Kod 1000

J K L M N O P Q R S T U V W X Y Z

10/13
At Kodiak. Cannery
& Arctic maid

10/14
Lv. Kodiak Pt Wakefield 11:00
Arr. Port Wakefield 11:30

Talking to Red Stevens -
he showed us the results
of growth from tagging. To
date the returns are from
large males and females
of over 150 mm. The males
showed a growth of 25 mm
(from memory) and the females
less than half of that. He
averages length and width
per initial size & growth in
length & width for growth.
He has some unevenness
in amount of growth for
crabs of various sizes.
His crabs seem to have
shown little migration.

He says he is leaving A.D.F. about
next August.

Talking to Hiram McAllister he
said his now fishing in 90-100 f
of water - running 55± pots, had
530± crabs for a one day soak.
Has and otter trawl aboard mostly
for catching bait. Was baiting
with bullheads chiefly, & flounders.
It appears that a heavy stock
of bullheads is found here.
Hangs five to ten pounds on
a big wire saftey pin gadget
in pot.
Crabs look large & well filled
run around 12#/dozen - Said
North end of island ave. 12±
and south end 10#±
Had real heavy fishing
within an hour of Kodiak
up until latter part Sept.
31,000 crabs in 30 days?

K L M N O P Q R S T U V W X Y Z

Foremost came in with 5000+ crabs from Alitak on 14th; seemed lighter than Kodiak crabs. ~~To~~

10/15

Tak & I dissected & injected crabs at Port Wakefield. The muscular is thinner seems to be of a vascular nature except up & back under the curve of the posterior shell margin. Seems to be as tough there as anywhere.

Cutting notches in the shell worked fairly well at the top of the abdomen and along the rear edge of the carapace. It gives a total of 7 positions

4 Boats fishing here now: Foremost, Shelikof, mist & ?, Plant handles 2000-2500 crabs per day

Silvers almost done in creek — few redskins reported.

To Do

① See about duck tags

② get sections of King crab made

③ See about trot lines

④ H. McA. Box 167 Danforth Heavy Flukes — galv. 125-150# 85# = $57-£76 180- £145

10-16

Waited for plane to Kitoi Bay

10-17

Left for Kitoi 11 Am
arr Kitoi 1130 am

10/18

Dept Kitoi Bay 2 PM
arr anchorage 2:45 PM

10/19

Out with Miss Arctic in Chiniak Bay

K L M N O P Q R S T U V W X Y Z

10/20

Dept Kodiak for Anchorage
2:30 pm
Over Anchorage 4:30

10/21
Ft. Anchorage 2—

Rest of book is blank or accounting info.

L M N O P Q R S T U V W X Y Z