

Pat. Paper
million cases
made per this week.

PARAGON-1961

Rite in the Rain
WATERPROOF

LEVEL BOOK

FILLER
Form No. 311

HOUGHTON H. SAKUDA
WATERBURY INVESTIGATION
U.S. ENVIRONMENTAL LIFE SERVICE
SECTION BIOLOGICAL LABORATORY
2800 UNIVERSITY BLVD.
SEATTLE, WASHINGTON.

LOG MV PARAGON
1961 Cruise # I

July 4 to 25, 1961

BOOK I

Rite in the Rain
WATERPROOF
A Product of
J. L. DARLING CORP.
BROWNS POINT, TACOMA, WASH. U. S. A.

Book 1 of 2

- 1) Measure Manila leader from door for Herb
- 2) note accuracy of Bill obs. (foggy, rainy, etc).
- 3) Take Mann expected to be in area.
Took received letter from Sakoniji aboard.
- 4) Take careful, complete movie sequence of Tagging operation - 22. Work on Station -
Speed = 24 frames per sec.
- 5) Ray Hillson - Halibut Comm.
U. B. C. Pre-med student.
- 6) Unalaska war house bill - settle -
up to June 30 - P 131.9a.
- 7) For address (74 62) use 431.7A.

L. L. BENTLEY, CORP. TACOMA, WASH., U.S.A.		July 4, 1961	WATERPROOF
Depart home	Sept. w/ Sacto	w/ Carl	
Sept 1			
Left car w/ Frank's neighbor.			
Took not home.			
To Sea-Tac. Checked in baggage.			
Expense of 73 lbs. \$ 79.57			
Made out TK A 3, 107, 398. \$			
For Seattle to Dutch, Via Rome.			
Time 9:30 PM.			
To Talk - Stayed. Total 2445 HRS.			
To Sea-Tac. AT 2:50. waiting for			
Boarding PNA.			
MET Al Royce & family while waiting.			
He was treated to pilot's To-Commander			
2nd w/ Fred Walker and 2 others.			
Found in train group. They departed			
on North West airline To Com base.			
Boarded PNA Flight #3. 0140.			
Take off 0210 HRS.			

July 5, 1961.

Flight to Anchorage.

Arrive Anchorage - 0540 HRS.

Met Ray Hillson on plane.

Talked to Al Roppel, Ted Wilke and
Luther at airport. They departed
on the 3rd Rescue to Cold Bay - 0715.

Called Walt Wong at Ft. Richardson.

Depart Anchorage via Rescue to
Cold Bay 0825.

Arrive Cold Bay 1200 HRS.

Depart Cold Bay for Dutch He. 1515
Ship Cape Semecheg - arrive &
depart 1620.

Arrive Poodlak He. 1705.

Checked in w/ Hunter & Carlson who were
at the airport ready to fly out.

Plane left right away.

Checked in w/ Paragon.

The boys had fixed the old net to fish
so will use it.

Discussed live box & other gear for
preparation to depart.

A. L. DARLING CORP.
TACOMA, WASH. U.S.A.

July 6, 1961.

Blue Ball
WATERPROOF

Preparing gear.

Date of arrival at Unalaska and
start of warehouse rental.

Start May 8, 1961. Will make
out P.O. to pay for month of
May & June rental.

May 8 to 31 = 24 days

June 1 to 30 = 30 days

54. days = 54.00

Made out CFA 31970 for rental.

Bob Preston mailed his mid-water travel
w/ CFA 31970. but left the project
no since he does not know what it
is.

Everything about ready. will leave to-
morrow morning.

Mailed the P.O. receipts to take in
letter.

July 7, 1961

Depart Unalaska 0915 Hr.

Station Z5 - 1755 Hrs.

Roller set.

104972 - 107645 = 2673

711512 - 714186 = 2674

Wire got twisted on setting. Had hard
time but made set. Wire very
twisted.

Set 1835.

Tried repeat of range reading - too
dark to see bulls.

Got one range reading.

370 yards - w angle.

With angle readings.

at clock - 1510"

6 feet - 1602"

Rope from sound 26' 10"

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

Pat. in U. S. Pat. Off.
WATERPROOF

Tanned about 800 peds.

Fluffy crabs 200

Pottery sole 300 about.

Turbot 50 about.

Bull heads 50

Raja kincaidii 1

Per sole 100

Alba mackerel 1

No walrus or stringer.

Rock sole 300

Pottery sole - 500

Habitat 14.

Tugged king crabs (or) 19.

untugged or = 1

Females 42.

Release pos. 55° 46' - 165° 00'

Drop anchor about 2345 Hrs. at
Cape Mordinov.

July 8, 1961

Wire To: Seattle Bio. Lab.

Station Z 5 Taken.

Will take stations A6, B6 and

B7 Today.

Total of 21 stations completed
to date.

Set Station A6, about 0650.

Balls out easy. But foggy out.

Calm day but foggy.

Range angle.

1- 297 2° 39'

2- 297 4° 40' ← better reading.

Wire angle - 16' 8" - 16' 0"

Tagged 14 ♂♂ - 0 untagged.
4 ♀♀.

Released - 55° 03' - 164° 36'

Made schedule w/ Cold Bay. at 10:30 BST.

9:30 our time.

Sent out wire through them.

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

Return to Rain's
WATERPROOF

Station B6.

Set. 1130, about.

Balls going out fine - sunny & calm

Range angle cable.
1- 35+ yds / 5° 9' 15' 11"
2- 357 / 5° 27' 16' 3"

Rel. pos. 55° 20' - 164° 29'

Tagged 41 ♂♂, 30 ♀♀ untagged, 298 ♀

Station B7.

Set Balls but could not see them,
due to choppy water and sun
light. We are towing away from
sun set - no ball range or
angle taken.

15' 11" block.

16' 5" 6ft - down.

Tagged 47 ♂♂, 40 ♀♀.

Rel. Pos. 55° 20' - 163° 53'

B7 (cont'd)

Had mostly Tannins - few king crabs.
Used first board.
Headed for B8 to anchor.

One counter on roller not working
so changed roller tonight.

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

July 9, 1961

Pat. U. S. Pat. No. 2,811,111
WATERPROOF

On station B8.

Gears out - But forgot to take
counter reading on new roller.

Range 313 yds. Angle $3^{\circ}13'$
294 " " $3^{\circ}10'$
Wire angle $16^{\circ}2''$ - block
 $17^{\circ}3''$ - 6 ft down

Roller reading. 579778 - 422145

Tagged 21 0700, 11 ft.

Rel. pos. $55^{\circ}20'$ / $163^{\circ}25'$

Rel. pos. $55^{\circ}23'$ / $163^{\circ}28'$

Wire to Seattle Biological Laboratory.
Bureau of Commercial Fisheries.
2725 Montlake Blvd.
Seattle, Wash.

MV Paragon - Taking stations B8,
C8 and C7 today.
Total of 4 stations completed.
Please report Hillson progress fine
to Halibut Commission.

Did not send
message about
could not contact
Gold Bay - closed on Sunday.

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

C-8-

7-9-61.

Return to Receiver
WATERPROOF

Range 347 Angle 4° 16'

354 4° 31'

Block - 15' 11" - 16' 6"

Tagged 20 ♂♂, 21 ♀♀.

Balls righting clear. ♀ should be good
night.

Balls are going out very well - no trouble
at all in setting and retrieving
with separate spears.

Take only several (about 2-3) minutes
to get the balls in after doors come
in.

Set Pos. 55° 40' - 163° 23'

Rel. Pos. 55° 40' - 163° 23'

C-7 7-9-61

Sighted large vessel ahead no
recognition yet.

Range 375 - angle $4^{\circ} 31'$ good
352 - $4^{\circ} 27'$ ready
356 - $4^{\circ} 31'$ alive

Cable - $16' 5'' - 15' 11''$
62 ♂♂ Tagged, 39 ♀♀.

USSR - Crab mother ship - $55^{\circ} 39' N - 164^{\circ} 14' W$.

Base - VSEVOLOD SIBIRZEV.

3,000 tons. 1/6 podsukin

Trawler - 120 ft - 250-300 tons.

Crab net string - running up toward our
station.

Set Pos - $55^{\circ} 40' - 164^{\circ} 00'$

Rel. Pos - $55^{\circ} 40' - 164^{\circ} 08'$

Change line to right side (facing stern of
ship) - other side seems ok. same length.

J. L. DARLING CORP.
TACOMA, WASH., U.S.A.

7-10-61.

Stearns
WATERPROOF

Station C-6

went about 1-2 miles around to
see if area clear of nets. We saw
but with in the area.

Set about 0700 - a bit chilly & over-
cast today.

Balls went out fine & easy.

Range 366 angle $4^{\circ} 20'$

364 $4^{\circ} 22'$

Block $16' 4'' - 15' 10''$

tagged 51 ♂♂, 69 ♀♀.

Lots of activity - ships all about and
some Japanese & some USSR.
not clear enough for recognition.

set. Pos. $55^{\circ} 40' - 164^{\circ} 40'$

Rel. Pos. $55^{\circ} 42' - 164^{\circ} 42'$

Write to Seattle Biological Laboratory
Bureau of Commercial Fisheries
2725 Montlake Blvd.
Seattle 2, Washington

14K Paragon Taken stations Z5, A6,
B6, B7, B8, C8 and C7x
On station C6, D6 and DE 67.

Report Hillson progress line to
Halibut Commission

Sighted one Russian King Crab Factory ship
about 10,000 tons with 6 net haulers.
one 3,000 tons coal carrier for factory ship
and one trawler 150 ft. 250 tons.
setting nets.

All in vicinity of station C6.

Not seen

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

Return to Owner
WATERPROOF

Running to station D6.

Next second Russian Crab fleet.
mother ship - 10,000 tons w/ 12 haul
boats, 2 net trawlers - 130 ft.

Mother ship name - AHAPEN ZAXAPOB

Boys threw carton cigarette to haul boat.

Write to Seattle Biological Lab
Bureau of Commercial Fisheries
2725 Montlake Blvd.
Seattle, Washington

14K Paragon - vessel sightings
two ^{Russian} King crab mother ship operations.

one at 55° 39' N - 164° 14' W.

8,000 tons with 6 haul boats.

one trawler 150 ft. 300 tons x

one at 55° 48' N - 164° 39' W.

10,000 tons with 10 haul boats.

two trawlers 130 ft. 300 tons.

Station D6.

Set Ball OK.

One ball - left - lost during tow -
could not take angle reading -
will run back and pick it up after
Tow.

Rope must have cut off.

Block - 16' 4", 15' 10" - Tagged 230, 5#

Tried to reach Cold Bay ALR 66
but could not reach.

Found out that we do not have 2060
radio crystal for talk to Toke's Mann.

Changed rope on left door (facing
stern of ship) - length is still same
26' 10"

Set Pos. 56° 00' - 164° 36'

Rel. Pos. 56° 03' - 164° 33'

J. L. DARLING CORP.
TACOMA, WASH. U. S. A.

7-10-61

Roanoke River
WATERPROOF

DE-6;5

Range - 352 - angle. 4° 59'

(367)

(4° 54')

(362) - 360

(4° 58')

Water choppy. \odot are good range sights

Block - 16' 5" - 15' 10" - 6 ft down.

Tagged 54 000, 6 untagged 000
3 92 -

Double Tagged every other crab on this
station.

Set Pos. 56° 10' - 164° 18'

Rel. Pos. 56° 07' - 164° 13'

July 11, 1961

Station D7-

Range - 372 / 372

Angle - 4° 34' / 4° 32'

Positions

Block - 15' 10" set - 56° 00' - 164° 00'

6 ft - 16' 4" Rel - 56° 03' - 163° 54'

Ball readings good - water a bit choppy.
Cant were able to get readings.

Tagged 28 ♂♂ - 599.

Wrm: To Seattle Biological Lab.

Bureau of Commercial Fish.

2225 Montlake Blvd.

Seattle 2, WA.

MU Paragon - on stations D7, DE 78 and D8.

Total of 10 stations taken to date.

Send all messages via ACS Cold Bay.

J. L. DARLING CORP.
TACOMA, WASH., U.S.A.

River & Rain
WATERPROOF

Station DE 7.5

Range - 352 / 364 / 357

Angle - 3° 57' / 3° 57' / 4° 26'

good range & L. (not so good)

a bit choppy & foggy

Block - 15' 10"

6 ft - 16' 4"

Tagged 18 ♂♂, 599.

Positions

set - 56° 10' - 163° 42'

Rel - 56° 07' - 163° 39'

7-12-61

D 8-

Range 378 lost one ball thru low - no
Angle. angle taken.

Block - 15' 10" Tagged 39 \rightarrow \rightarrow
6 ft. - 16' 4" 21 99.

Went back to pick up ball - found
it.

changed wire -

The roller counter had been very bad.
That is difficult to read - it is
filled with water inside -
will also change back to the
original roller counter.

Both counters are bad.

Position Set - 56° 00' - 163° 24'
Rel - 56° 04' - 163° 18'

E 8-

Ball out good -
changed wire -

Range - 370 / 368
angle - 4° 21' / 4° 21' 30"

Block - 15' 10"
6 ft. - 16' 4"

also changed the roller to the
one we started out -

Tagged 21 \rightarrow \rightarrow , - 3 99.

Position

Set - 56° 20' - 164° 24'
Rel - 56° 22' - 164° 27'

7-12-61.

EF-7.5

Range - 556 376

Angle - 4° 41' 4° 42'

Block - 15' 11"

6 ft - 16' 6"

69 ♂♂ Tagged

1 ♀

This haul mostly fish.

Range & angle readings should
be ok.

Positions set - 56° 30 - 163° 42.

Rel - 56° 27 - 163° 44.

Liner in bag torn so took it off.
Not now fishing without liner inside
bag.

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

WATERPROOF

via Seattle Biological Lab.
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon on stations E8, EF 78 and
ETX. Total of 14 stations taken to
date.

E7

7-12-61.

Range - 342 / 359
Angle - 5° 3' / 5° 0'

Block - Towing in sharp turn to
6 ft - right - and could not take
wide angles at block.
Towing in this direction to stay
clear of gear in the vicinity.

We tried but, caught some of the
large net (about one shackle) in the
trawl. There were a couple of crabs in
it.

Tagged 57 ♂♂, 3 ♀♀.
w/old large ♀ old.

J. L. DARLING CORP.
TACOMA, WASH. U. S. A.

7-13-61

Brushlin's
WATERPROOF

EF 6.5

Range - 373 - 365 Readings fair.
angle - 4° 51' - 4° 57' clear. OK.

Block - 15' 10"
6 ft - 16' 5"

Tagged 12 ♂♂ 0 ♀♀

win to: Seattle Biological Lab.
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon on stations EF 6.5, E6
and F6 x Total of 17 stations to
date x

Am next
tow

E6-

7-13-61

Set balls - lost one - don't know
what happened -
Will go back to pick up after haul.

Block - 15' 11"

6 ft - 16' 5"

Lost ball could not find.

128. 078 Tagged.

074.

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

7-13-61

Return to Rain
WATERPROOF

F6

Did not set balls this tow.

25 078 Tagged.

1 078 untagged.

074.

After making, put out new ball -
rope from door and spliced the
old line that was frayed.
Line on left side facing stern
of boat is now about 6" short due
to splice.

77

7-14-61

Range - 344 - 338

Angle - 5° 57' - 5° 56'

Block - 15' 10"

6 ft - 16' 5"

sights on balls good-

Tagged 103 ♂♂, 1 ♀ intertidal

Wrote: Seattle Biological Lab
Bureau of Commercial Fish
2725 Montlake Blvd
Seattle 2, Wn

MV. Pargon on stations F7, F8 and
G8x. Total of 20 stations to date.

Met John P. Manning while on station.
Harry Reitz was on it. They were held
for the Pribilof Islands. Expect to be
in Unalakleet in a week. may see them

There -

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

7-14-61

Rite in the Rain
WATERPROOF

#8-

Range 328 -

angle 5° 46' -

Foot left Ball again. set out
long marker about 500 yards from
it.

Did not take wire angles at block
because ship was turning &
could not reach trawl cable.

Looked back and saw that the right ball
was also missing - now we've lost both
balls.

Put wire loops with snags in place
of line from doors. The cables
have been slipping the lines.
Length of wire loops about 12"
from door hook.

10 ♂♂ Tagged, 2 ♀♀

G 6

7-14-61

Set the balls out with wire but
 lost one again.
 Will try to move position of line
 to front part of door for tomorrow's
 hauls.

Block - 15' 11"

6 ft - 16' 5"

Tagged 7 ♂♂, 1 ♀

Picked up ball - discovered
 that snap was OK -
 wire was on door on release
 but no ball.

Some how ball came off snap
 on wire.

J. L. DARLING CORP.
TACOMA, WASH. U. S. A.

7-15-61

Klean the Pan
WATERPROOF

G 7

Set Balls everything seems OK.

Good -

Range - 319 - 316 - 318 -

angle - 6' 24" - 6' 26"

Good ball nights.

Block - 15' 10"

6 ft - 16' 6"

Tagged 41 ♂♂. 95 ♂♂ untagged
5 ♀♀

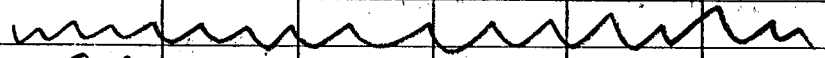
The 95 ♂♂ untagged were small -
 under 1.14 mm so did not tag
 them.

7-15-61

Wire to Seattle Biological Lab
Bureau of Commercial Fish.
2725 Westlake Blvd.
Seattle 3, Wn

SENT

MV. Paragon on stations 67, 66,
and 65. Total of 23 stations
taken to date.



G.B.

Ranger - Lot left Ball again -
Angela - found that wire was chaffed off
at door - suspect idlers too tight.
Block - 15' 10"
6 ft - 16' 5"

Tagged 3 ♂♂, 1 ♀ in line tank to
molt.

Harry is lengthening the idlers on
the left door (facing stern) with
try once more.
Still using short (about 6-8 inches)
wire loops on doors to snap on the
60 fm. wire - Reel working fine.

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

Received

Return to Rainier
WATERPROOF

#32 - Unit: Seattle, Unal. 7-14-61
PDT. Henry Sakuda BCF.

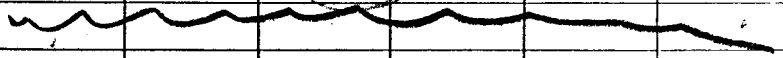
MV Paragon - Cold Bay.
Air freight Paragon's salmon tag to
Mr. Winward and to Seattle office
immediately upon your return to Unalaska
Details follow in letter x

Tanonaka

Wire to Tanonaka.

Received your wire.
To ship your tags upon arrival
Unalaska.

SENT



6-5 7-15-61

good

Range - 317 - 320 - 302

Angle - 5° 6' - 5° 5' - 5° 12'

Block - 15' 10"

6 ft. 15' 6"

bit foggy
but good

no king crab this time.

Cutting off station G 4 -
way to station F 4.

Balls sitting w/out trouble now that
Harry lengthen the idler cable
which was rubbing against the
line from door to wire on balls.

Balls go out & come in easy.

Individual reels for each ball is
really the best improvement yet.

J. L. DARLING CORP.
TACOMA, WASH. U. S. A.

7-16-61

Return to Rain's
WATERPROOF

F 4

Range - 321 - 322 good right

Angle - 5° 15' - 5° 11' clear

Balls easy to right but a bit deep
in water - might have to add 40 fm.
extension next time.

Block - 16' 5"

6 ft. - 16' 5"

Tagged 312' 0" 2 80' untagged.
no ♀.

Crabs were large - w/ new shells.

EF 4x5

7-16-61

Range - 358 - 352

Angle - $5^{\circ}18'$ - $5^{\circ}20'$

Balls quite low in water - sunny

good nights -

Block - $15'10''$

6 ft - $16'4''$

Added line - $30'9''$ to each door
wire - so the initial shock at setting
doors can be absorbed -

Still using 60 pm wires

Tagged 47 \rightarrow , 1 untagged
0 \rightarrow .

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

7-16-61

WATERPROOF

F5

Range - 346 - 348

Angle - $5^{\circ}11''$ - $5^{\circ}9''$

Block - $15'10''$

6 ft - $16'4''$

Tagged 102 \rightarrow , 1 \rightarrow .

EF 5x5

7-17-61

Range 344 - 353 good
angle - $4^{\circ}38'$ - $4^{\circ}26'$ sights.

Block - $15'10''$
6 ft - $16'4''$

There was a mix up in tag numbers at this station - from D 5158 to D 5166 - mixed up. Double tagged this station.

Tagged 29 σ^{σ} , 1 σ entangled -
0 ♀.

Wife Seattle Biological Lab
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wash.

MVPorgan on stations EF 5x5, E 5
and DE 5x5. Total of 29 stations
taken to date.

Mix up on tags must have been a duplicate No.

Tag in E series - between E 1404 & E 1406.

Duplicate of tags were not noted on board.

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

7-17-61

Roanoke
WATERPROOF

E-5

Range 337 - 350 clear good
angle - $4^{\circ}28'$ - $4^{\circ}30'$ sights.

Block - $15'10''$
6 ft - $16'3''$

Tagged 170 σ^{σ} , 3 entangled, 0 ♀♀.
very good low - crabs were large, mostly
New, a few old.

after next station DE 5x5 we'll head
out west over shelf - should be more
crabs in that direction.

Tagging goes very smoothly - Double tagging
pretty fast - as fast as single ordinary
station - Order of line for tagging is,

- 1) I tag on carapace w/ D series tag.
- 2) Oliver tags on isthmus w/ E Series.
- 3) Ray Hillson or Kuntz threads needles
for two taggers.
- 4) Carl measures & checks tag numbers.
- 5) Eviner ties tags, (both).
- 6) Ray or Kuntz writes the tag No. & date.
- 7) The chief collects the insects & clams etc.
- 8) Both does Hydrography.

DE 5x5

7-17-61

Range - 446 - 448 bit foggy -
Angle - 4° 46' - 4° 48' calm water.

Alled 40 fm. Lt.

Block 15' 10"

6 ft. 16' 4"

Tagged 79 ♂♂, 2 ♀♀ untagged
3 ♀♀.

wire Seattle Biological Lab.
Bureau of Commercial Fisheries.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon on station D5 TRTF.
Total of 31 stations taken to defex

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

7-18-61

Return to base
WATERPROOF

Too rough to fish today -
Anchored at D5 -
went to see Russian King crab
Mother ship. She had moved up
from where we had seen her last.

7-19-61

Too rough to fish.
Anchored at D5.
Talked to Sam at Unalakleet &
found out windward is there -
unrolling her net.
Set up schedule to talk to her
at 8 PM our time, 9 PM her time on
3205 But could not make contact.

DS - 7-20-61

Weather a little better -

Net out but did not put balls out

Still choppy w/ swells, probably
could not see them anyway -

Also foggy out.

Tagged 148 ♂♂, 24 ♀♀.

To Seattle Biological Lab.
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

TRTF July 18 and 19 x
on stations DS, DE 4x5 and E4.
Total of 32 stations taken to date x

Kunze noted that water a bit murky -
must be reaching bottom of tank -

Harry said about 1/3 tank left - He guessed
about 3 or 4 more days.

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

7-20-61

Keene & Keene
WATERPROOF

DE 4x5

Still choppy & foggy, did not put
out balls on this tow.

Many, many basket stars in shore and
last haul.

Tagged 148 ♂♂, 4 ♂♂ untagged.

E4

Choppy & foggy no balls.

Tagged 4x ♂♂, no ♀♀.

Still few basket stars in things of net.

7-21-61. Fri.

Wires - Seattle Biological Lab.
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon -

Unfishable July 18 and 19.

Took stations D5, DE 4.5 and E4.

On stations F3, F2 and E3.

Total of 35 stations taken to date.

Charter Confirmation -

MV Paragon charter satisfactorily
completed to July 21, 1961.

Tried to reach Windward but could
not.

They may be leaving Anaslaska.
Will tell them to take tags from
locker.

J. L. DARLING CORP.
TACOMA, WASH., U.S.A.

7-21-61

Boon the Rain's
WATERPROOF

F3

foggy & choppy - did not
put out balls this morning -

Tagged 115 ♂♂, no ♀

F2

Choppy did not put balls out.

Tagged 57 ♂♂, 1 ♀.

Untagged 4 ♂♂

E3

Still choppy no balls out.

Tagged 152 ♂♂, 0 ♀.

D4

7-22-61 Sat

Choppy did not set balls.

Tagged 143 ♂♂, 0 ♀♀.

Starting to blow again.

—|—
—|—

C4

Seas rough did not set balls.

25 ♂♂ untagged, 0 ♀♀.

Wales measured and in live tank for meat content.

It's really blowing now -
wind must be up to 35-40-45.
Sea & Swells large.

Caught 2 red ocean perch this last tow.
saved them for specimens.

C5

7-22-61

J. L. DARLING CORP.
TACOMA, WASH., U. S. A.

Keen to Run
WATERPROOF

Sea very rough - no balls.

measured and kept most crabs for
meat content - others as cook
fish.

84 ♂♂, 3 ♀♀.

—|—

7-23-61

Very rough - jogging all day &
night.

Out of water so decided to
jog into Unalaska.

7-24-61

Seas came down early
morning -

Ran into Anulaska.

At Anulaska Dock 0930 hrs.

Took net off -
Working all day

7-25-61

Working on crab meat content all day
with cart.

Got letter from Tom on situation
of charter and time.

Remora left about 2:00 PM.

Loaded for Adak.

Gave them crab pots to take to
Commanding Officer there.

Johnson = Sand Point - Marming Star

Martin = Kodiak - Arthur H.

Simon = Kodiak - St. Michaels

Flat head - smooth on blind side.

Sand sole - hair like rays above eye -
accessory lateral line

Rock sole - accessory lateral line, rough scales.

0930
1405
1320
1400
1450

No. CRABS in Box.

5
6
7
15
16
17
18
19
20
21
22
23
24
25

9 boxes of 60 crabs.

Sam Svarny
Walter Dyakowski
Stan Zaputelt

a product of
J. L. DARLING CORPORATION
BROWNS POINT TACOMA, WASHINGTON

PARAGON - 1961

"Rite in the Rain"
WATERPROOF
LEVEL BOOK

FILLER No. 311

CRAB.
Main Content.

Log MV Paragon
1961 Cruise Book # II.

July 26 to August 23, 1961

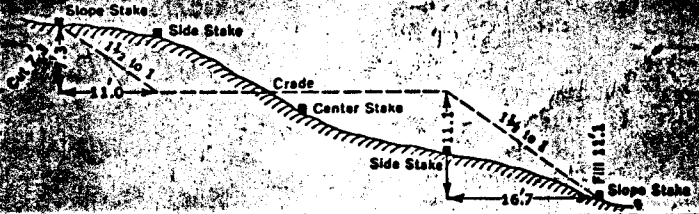
BOOK II

Book 2 of 2

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below, opposite 7' under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake											Cut or Fill
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.6	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	4.6	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	6.1	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	7.6	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	9.1	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	10.6	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	12.1	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	13.6	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	15.1	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	16.6	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	18.1	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	19.6	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	21.1	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	22.6	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	24.1	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	25.6	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	27.1	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	28.6	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	30.1	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	31.6	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	33.1	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	34.6	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	36.1	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	37.6	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	39.1	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	40.6	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	42.1	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	43.6	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	45.1	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	46.6	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	48.1	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	49.6	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	51.1	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	52.6	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	54.1	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	55.6	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	57.1	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	58.6	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	60.1	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	61.6	40

Sp. No.	New Sm		Live W.P.	Mens		Total-Ment.
	Lt.	Wd.		Rt.	Lt.	
1	123	149	3-9.5	23.0	25.0	1-7.5
2	159	186	7-10.5	52.0	53.5	2-8.9
3	127	144	3-11.0	30.0	32.0	1-12.0
4	177	212	10-1.5	59.5	60.5	2-13.7
5	196	219	13-11.5	79.5	83.9	3-12.0
6	165	192	8-4.0	59.0	62.5	2-12.57 40.8
7	138	155	5-0.0	39.0	36.0	2-0.5
8	151	174	6-4.5	57.0	55.0	2-9.5
9	127	142	3-11.5	29.5	37.0	2-0.2
10	132	148	3-14.0			
11	139	165	5-4.0	38.5	39.0	1-14.0
12	146	163	5-11.0			
0-13	141	166	5-9.4			
0-14	138	158	5-0.5	49.0	47.5	2-8.0
15	170	192	7-10.5	49.0	R	2-4.0
16	145	164	5-9.5	41.5	41.5	2-2.0
17	182	211	10-14.5	65.0	71.0	3-1.5
0-18	144	167	6-0.0			
19	155	180	7-11.5	61.5	61.5	2-14.0
20	125	145	3-4.5	32.0	29.5	1-11.5
0-21	165	186	8-11.5	86.5	90.0	3-9.0
22	137	162	4-15.0	36.5	34.0	1-13.5
0-23	171	205	10-4.0	112.0	107.0	4-0.5
24	172	195	9-2.5	51.0	55.0	2-9.0
0-25	142	164	5-15.5			

Sa. No.	L.	W.	liv wt.	Murus. Rt Lt.	Total Meat
0-26	145	165	5-12.0	39.5 43.0	1-15.5
27	136	157	4-12.5		
28	181	210	11-8.0		
29	163	197	8-9.5		
30	172	199	9-0.5	61.5 61.0	2-12.0
31	129	148	4-3.0		
32	147	173	5-8.5		
33	157	188	7-3.0		
34	164	191	8-0.0	53.5 53.5	2-6.5
35	137	158	4-13.5		
36	157	186	7-5.5	37.0 52.5	2-8.6
0-37	164	192	8-9.0		
38	128	148	3-13.5		
39	144	168	6-1.0	37.5 39.0	7-15.9
40	148	172	5-8.0	49.5 48.0	2-6.0

Size	Shell		Size	Shell	
	New	OLD.		NEW	OLD.
100					
110					
120	III	4			
130	III	3			
140	III	3			
150	III	4			
160	II	2			
170	III	4			
180		1			
190		1			
200					
Samples for Meat Content -					
Round I.			RD I & II.		
Size	New	OLD.	Size	NEW	OLD.
110	1		110	1	
120			120	4	
130	1	11	130	4	3
140	1	1	140	4	2
150	III	1	150	7	2
160		III	160	2	7
170	II	III	170	7	4
180	1		180	2	
190			190	1	
200			200		

meat content of sized
& shell types taken
during last Rd.

7-26-61.

Fueling difficult here lately -
Too many Tugs & vessels around
the fuel dock. Traffic very
heavy - Walter's been working
two shifts lately.

Fueled, wrote report to Tah
and enclosed:

(1) Bill of shipment for Tugs to
Kodiak & Seattle.

(2) Charts of last round and
Summary of Tugs released.

(3) Log no. of Tugs sent to Seattle &
Kodiak.

(4) P.O. Receipts for fuel taken on.

Preparing to depart - but decided to
leave after breakfast tomorrow in
order to arrive at station C9 for
morning set.

7-27-61 Thurs

Sent wire to Tak

MV Paragon - Received your instructions in letter. Departing Uvalaska this AM for station C9. My report mailed contains summary of round one and proposed route for round two.

Depart Uvalaska 0820 Hrs.
Running to station - beautiful day.
Flt calm, w/ sun out.
Arrived at station C9.

To: Seattle Biological Lab
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon starting round two x
on stations C9, D9 and D10 x

Sent

7-28-61 Fri.

C9

Range - 293 - 297 Ball making
Angle - 6°8' - 6°6' good, but drizzled
but close & clear.
Block - 15' 10" calm.

6 ft - 16' 7"

No king crabs this haul

D9

Range - 342 - 364 - 344.
Angle - 5°3' - 4°55' - 4°55'

Block - 15' 9"
6 ft - 16' 3"

45 tagged - 1 untagged - 80°
44 99.

Received wire from Tak. sent July 27, 1961

Text: Report your progress and ETA
Unalaska.

E1

D 10

Range - 312 - 299 - 316

Angle - $5^{\circ}12'$ - $5^{\circ}16'$ - $5^{\circ}18'$

Block - $15'10''$

6 ft - $16'4''$

good rights,
clear, smooth.

Tagged 20 ♂♂, Un-tagged 55, ♂♂
125 ♀♀.

Crabs mostly small.

Saved small ones under 20 mm

Lt. M. D. Long.

E9

7-29-61 Set

Rough, large crabs. Did not
set balls.

Tagged 57 ♂♂, 1 ♂ untagged.
15 ♀♀.

Crabs mostly small.

To:

Seattle Biological Lab.

Bureau of Commercial Fish.

2725 Montlake Blvd.

Seattle 2, Wn.

MV Paragon on stations E9, E10 and
E11. Total of 3 stations. In pen two
bater.

7-29-61

E 10

Still rough & swelly, choppy.
did not set out balls.

On this tow the roller must have
hit a snag while under tow.

There was nothing but the handle
bar broken $\frac{1}{4}$ off and one meter
left. Am sure it did not hit
side of boat during hauling.

Our anchor was broken in half
upon retrieval this morning too.
Bottom must be hard.

Tagged 10 ♂♂, 1 untagged
12 ♀♀.

Put on other roller. Took one remaining
meter from last roller that broke and
put it on the roller.

7-29-61. Sat.

E 11

Rough & towing with sun
at stern so did not set balls.

On this haul there were about
1395 crabs - about 89% very
small ones about 60-70 mm
carapace length, so did not
tag. Only measured by sex and
collected 5 total for Doug.
of crabs less than 70 mm
we took mostly males. Don't
think it makes any difference.

To avoid another tragedy at this
haul we are heading to station
F 11.

Total crabs this station =
721 ♂♂, 674 ♀♀.

Drifted on station F 11 all night.

7-30-61 Sun.

F-11

Rough, choppy, foggy - did
not set out balls this time.

Tagged 16 ♂♂, 6 untagged.
11 ♀♀ measured.

— 11 —

F-10

Still choppy, did not set balls.

Tagged 16 ♂♂, 7 ♀♀.

Big haul of sponge. Not repaired
along port rope hanging.
Boys repaired net.

One number on roller counter not
legible. filled with sand.

7-30-61

F 9

Still rough & choppy -
no balls set.

Tagged 107 ♂♂, 1 untagged.
4 ♀♀ measured.

Sea still a bit rough with
large swells and chop.

7-31-61

Too Rough to fish.
Jugging - at station 69.

Seattle Biological Lab.
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon.
taken stations F11, F10 and
F9. On station 69 weather
unfishable, x Total of 9 stations
taken today.

Sighted Russian trawler.
looks like Crab set boat.
Have not seen mother ship in this
area. Last mother ship seen in
the NW corner during last round.

7-31-61

69

Rough but made land.
No balls set.

Trapped 5 ♂♂,
10 ♀♀ measured.

Port town heading to H9.

On way ran across Russian
Trawler - about 110-120 ft -
side rig -
Stopped to look at her
and continued on way.

Arrived at H9 - swells
still large. Thick fog -
We have no anchor, so are
drifting.
Harry gets up about 4 or 5 AM
and gets back on station by
loran every morning.

8-1-61 Tues

at station H9.

Foggy & choppy - did not net
balls.

Tagged 7 ♂♂,
2 ♀♀ measured.

Seattle Biological Lab
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn

14 V Paragon On stations H9, H8
and H7. Took station G9.
Total of 10 stations taken to date.
Sighted one Russian trawler 120
ft. in vicinity of station G9.

8-1-61

H8

Too rough to net balls.

Only 2 ♂♂-tagged, no ♀♀.

So decided to run across to
E2.

Started to blow so running at
reduced speed to E2.
Should be there some time
Tomorrow.

8-2-61

On station E2 about 0800 hrs.

Set about 0820.

Sea choppy & with large swells
did not set balls.

Only 1 male crab this haul.
did not tag him.

Starting to pick up a little -

Seattle Biological Lab.
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, Wn.

MV Paragon on stations E2,
D2 and D3. Total of 12
stations taken to date.

8-2-61

Did not take station D2,
since only one crab caught on E2.

Cut across to D3.

D3

Still bit choppy with larger
swells. Did not set balls.

Have 40 fms shot added to
60 fms wire for deep stations in
this area.

Tagged 12 \rightarrow
no ♀♀ this tow.

Running to station C3.

Drafting at C3.

8-3-61 Thu.

C3.

Chopping 9 large swells, did not set balls.

Net snagged on object after 45 min.
Tow - Hauled it in.

(5 070) Untagged - in live tank
for meat content.

(0 40)

Sent Wire

Seattle Biological Lab.
Bureau of Commercial Fish
2725 Montlake Blvd.
Seattle 3, Wn

140 Paragon on stations C3, B3 and
B4. Total at 14 station taken
to date on Round two. Our
ETA Unalaska on August 5.

Received wire

Seattle, Wn 9:28 AM.

MV Paragon.

Several museum specimens needed.
Suggest you freeze dozen male and
female crabs pick up some large
mud at Sand Point if necessary.

W

B3

Large swells, chopping
No balls set.

Net hung up again -
Towed for about 20 minutes.

(3 070) in live tank - (0 40)

Chains on both doors broken from
weight of snag - Rocks? on in wing.
Net seems to be in good shape -
ripped along wings only.
Had quite a time repairing chains
on doors and wing extensions.
Scraped and scrounged all over ship
for staples.

Running to B4.

8-3-61

B4

Set Balle but too choppy
& large swells to see them
in 83 fms. with 100 fms
wire out.

22 ♂♂ - analyzed - put in
two tanks for meat content
study.

0 ♀♀

(#1)

Seattle Biological Lab
Bureau of Commercial Fish.
2725 Montlake Blvd.
Seattle 2, WA
MV Paragon.

On stations B5, A5 and
Z5. Total of 17 stations taken
to date. Please notify Halibut
Commission of our work completion.
Will try to collect specimens as your
request.

8-4-61 Fru

B5

Rough & choppy, did not
set balle.

41 ♂♂ in live tank for
meat content.

22 ♀♀ measured.

Sampled 5 ♂♂ about 6 ♀♀ for
museum specimens.

(#2)

Seattle Biological Lab
Bureau of Commercial Fish.
2725 Montlake Blvd
Seattle 2, WA

Charter Confirmation &
MV Paragon charter satisfactorily
completed to August 5, 1961.

A5

Rough no balls set.

18 ♂♂ in live tank for meat
content.

5 ♀♀ measured.

Running to Z5-

←

Z5

Too rough to set balls-

19 ♂♂ measured in live tank for meat

62 ♀♀ measured content.

Running to Chualaska.

8-5-61 Sat.

Arrived Chualaska about
0230 AM.

Preparing to Depart.

Running Meat Content studies.
all day.

CRAB No.	SHELL TYPE	Length mm.	Width mm.	Weight lbs. - oz.	MERUS RT.	WT. (gms) LT.	Total WT. lbs. - oz.			
1	O	136	155	4-9.6	48.0	48.0	2-0.2	+96 grams		
2	O	165	200	9-10.4	91.0	94.0	3-15.4			
3	O	171	213	10-5.6	56.0	56.5	2-14.8			
4	N	154	171	6-3.6	39.5	38.0	2-2.5			
5	N	175	207	10-8.0	82.5	77.2	3-5.7			
6	O	152	174	6-15.7	68.0	60.0	2-14.7			
7	O	143	163	5-10.6	50.5	52.9	2-12.4			7
8	O	169	193	9-12.0	77.0	76.0	3-5.2			
9	N	152	179	6-15.4	59.2	57.0	2-10.8			
10	O	171	196	9-12.8	82.0	74.0	3-8.5			
11	O	154	181	7-7.4	79.5	82.5	3-5.5			
12	O	161	191	9-2.2	89.0	87.0	3-6.4			
13	N	148	171	5-14.4	52.0	50.5	2-7.7			
14	N	136	155	4-12.0	40.0	39.5	2-2.8			
15	N	175	210	9-14.4	66.0	58.0	2-13.6	+30g. for one gpus part missing -		
16	N	181	204	10-6.8	68.0	70.0	3-3.5			
17	O	168	201	9-11.5	95.5	89.8	3-9.4			
18	O	169	201	9-14.0	101.0	97.0	3-13.6			
19	O	163	190	8-8.0	56.5	52.0	2-13.0			
20	N	106	122	2-8.9	23	21.5	1-9.5			
21	N	178	206	10-0.3	70.7	66.8	3-2.7			
22	O	171	203	10-1.0	91.5	91.0	3-12.3			
23	N	154	179	6-10.0	39.0	38.0	2-2.0			
24	O	139	156	5-8.0	56.0g	56.0g	2-12.0			

end of data pages
end Book 2