Pream Predation Expt 7/10/84 - 14/10/84. [PE 001]

Tank Size 50cm x 50cm ben water depth thin layer washed send.

Time start 10:00 Seit 6/10/84 Predators placed in but tank has prey.

10.15 Sun 7/10/84 Prey pascod in tank.

Time end 10:15 Sum 14/10/84 >> 7 days.

water temp at and = ?

No. predaters = 4 Sizes = 1.35, 1.35, 1.15, 1.25 cms

100. pieu = 30

10. esten = 29

No boung esten at lineh = ?

Prey preserved in PE 001

1.036 prey/ predator day

6/11/84 Pre Pre tine 13 in Design arena.

high donsity of prey. Preds isolated overnight with no prey.

Preds colored 1/11

No 1 1.42 cm W. Temp 23.8. publed up whalst moving in solde of perspex. a) 1114-1126 enc 1 prey. exhibited treat becowing.

b) repositioned attack and chose dos, captined another item 1132-1157

No 2 1.45 cms Temp 24.3. pulsed up on soide a) 1304 - 1330 1 prey contined 0.36 cm. b 1353 - 1401 1 prey contined 0.38 cm

*Note - both appeared to be slower than held specimens except when prey chased in 16)

No3 1449 In position
1451 burnersed

> no lutter movement

1.344 cms

No4 1-282 cme

*Note - Penter Member wears off guildy.

7/11/84 Continuation of previous trial. Snows maint in helding take tank, but no water him exp truy.

1 0942 1P 0955 IP 0944 1001 B Q560 1339 (S) * 0951° PC 1430 PC 0954 B 1432 1435 S out of arena, continued movement on surface - one wood followed were and humowand.

- 3 1000 18
 1017 B
 1317 \$85 **
 3 unsuccessione attacks
 PC & B
- * water accessed to drain top surface just expersed. at 1230 * 1430 flow resumed.
- 4 1012 IB
 1019 B
 seached and B wheel it ten back
- (S) 1014 1P (B) 1013 #1P 1019 B 1022 B

7/11/84 - 11/11/84

6 predators aft in crown to lead on prey. Remered at 10 am 11/11 and isolated in holding tunk. Prey removed Som weren counted and No. eater determined. Onema cleaned | sund wested. Exame underacted search each deny when no prey present, how 12th - 16th. Then add pay and examin behavior.

0945 - Commonced draining water. 1015 - druning ament complete - prey items active and moving around surface of substrate. (= 27) 1023 - one predator surfuced. commoned searching

with I prey in tow. Corptured another prey and recommenced search? with two prey in tows. ? how 2nd (older prey) bept in tow? as pred burrowed closer prey tem seft behind. Examination should hole bened size 4.14 mm

Prey tens still active whose some surface 1044 water unbe but where NO SW unable most have stopped whilst still exposed.

Commenced removing and scoring sernel. predaters pleased in coom tank with 3.5 cm sand. 1130 GCO prey & preds seneved. prey placed in used securator to kios. I sost during souring,

which was a captured item. 1136

5 of preds observed to be actually merring arrived surlive of substite and at DO or D1. Obs of encounter of two preds money in opposite directors showed no apparent interaction. Virtuelly ignored each other with eve neing over the top of the other.

1500 2 tanks set up 3 / tank 1 tank overthew hom arena other hum rearc.

1100

prey presv in 70% alcebel Colod

PE 002

Water temp 24.6°C

Sizes of pieu eaten 10.00 7.11.84 TO 10.00 11.11.84

| 4-4- | |
|-------|---------|
| 3-34 | |
| 4-40 | |
| | |
| 4.26 | 3.80 |
| 3.98 | 4.56 |
| 3 · 4 | 4.15 |
| 3.62 | 4.40 |
| 3.76 | 4.34 |
| 3.46 | 3 · 84. |
| 4.44 | 3.50 |
| 3.79 | 3.80 |
| 3.66 | 3.94 |
| 4.26 | 4.05 |
| 2.94 | 4.00 |
| 4.15 | 3.5a |
| 3.70 | 2.95 |
| 3.28 | 3.20 |
| 4.05 | |
| 3.50 | |
| 4.16 | |
| 4.00 | |
| 3.64 | |
| 3.25 | |
| 3.80 | |
| 3.05 | |
| 3-65 | |
| 3.12 | |
| 3.28 | |
| 3.80 | |

$$n = 40$$
 6 pieds
 $\overline{X} = 3.76$
 $S = 0.416$

1.66 prey | predator day

12/11/84 Predators isolated in two tembs (30x30x10)

one with overflow his arena, other with flow him secirc.

1200: Water temp 24.0-24.5°C

approx 10 cms apart (see truck short). are burrowed within 5 mms. 3 tracks obtained

- a) 1219-1402 remained at D4 are the time.
- b) between 1600-17 not observed but truck truck.
- c) 1720-1810 good truck showed spine pettern.

13/11/84 same procedure as 13th the trucks obtained

- a) 0940-1111 greed spine
- b) -1055- 1113 bit shakey pessebly two detections of other burrowed permises
- .. should tast simply

Note at 0930 4 pred dos seaching in hading tembes, trucks ceneral surface of search between 1800-0000.

17/11/84 Prey corrected at 1030
1130-50 prey tems placed in perspect cent and non off water observed to down into tank A
1430 3 preds in tank A placed in arena.

* Note when runoff his pasey host allewed into A response of the preds showed a clear increase in actuaty.

1600 after inition burrowing no luther merement setund to tenk A.

19/11/84 Min 3 pred Im B plexed in arena 0917 0922 burnersed.

Temp 24.0

One pred acture barooth sand. Wan wester Inn prey contensor dropped In eye dropper properte over annual response becaused after is 10 ands instigate tight search pattern.

20/11/84 1400 COD preds parced with XS prey commend to head ad Dub.

21/11/84 wednesday - Precin size selectivity.

Preds and prey collected 1330 at rowers buy (2rd car park).

1500 5 pieds + 30 gge + 30 sin pieg pleced in 30 × 30 cm tenk with 2-3 cms send.

DOSCO 27th 11 84 (Tues) One snow bound in truly
press him teach but placed in
holding teach. (not him out touch. - 28th/11)

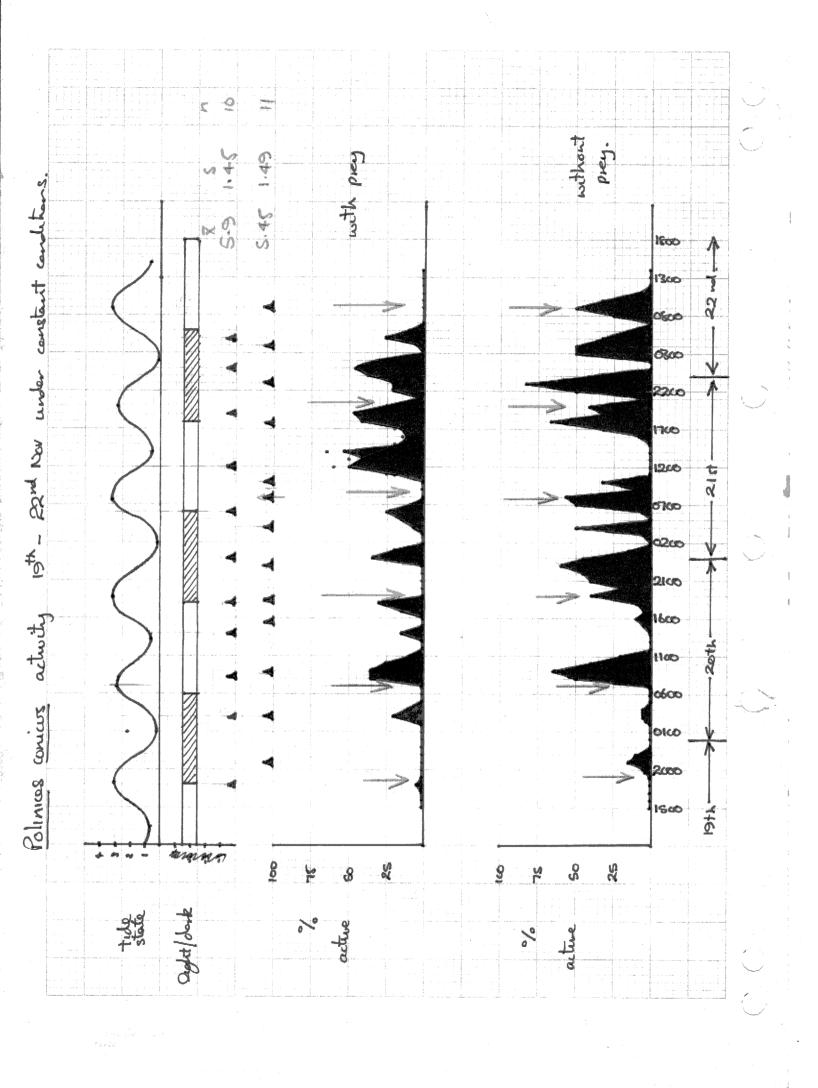
| | | | | | | J |
|-----------|----------|-------|----------------|--------|-----------|------------|
| Pred size | l. 2. | 1.223 | 0.845 0.805 | t | Stored in | PE 003 |
| | 3. | 1.082 | 0.8cm | | | |
| | 4. | 1.186 | 0.769 | | | 22 |
| | 5. | 1.189 | 0.764 | | | 7137 |
| LB | 22 | | SB | 19(-4) |) = 1S | 5 1/day |
| LNB | 8 | | SNB | 15 | (15) | |
| | 30 | | | 34 | (30) | |

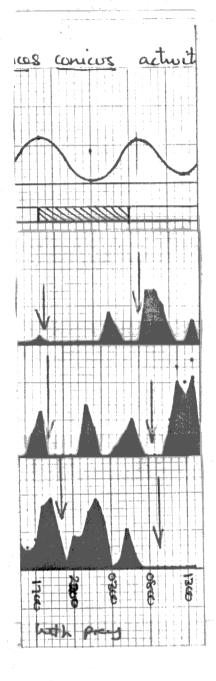
LB 4.5 4.77 Mon 19/11/84 Two tanks 22×14×14 cm, 5 Polamers concers each tank 50 poey (1scender conventer) in tank (B). Reased in tank of 1400 commanded video 1445.

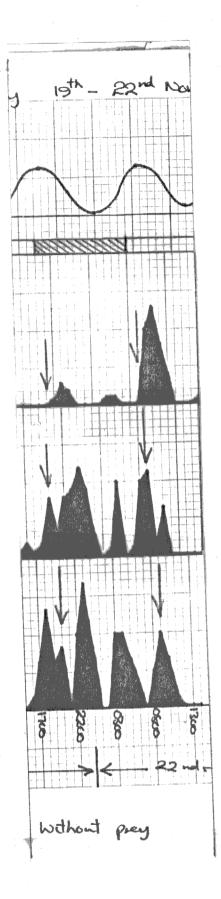
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| | | 0 | 0 | 20th | 0 | 0 | | - | - | |
| | | 0 | 0 | | 0 | 0 | | 4 | 1 | |
| | | 0 | 0 | | 0 | 0 | | 3 | 1 | |
| Characterist | 1600 | 0 | 0 | ବାଦେ | 0 | 0 | lưưo | 2 | 0 | |
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| The second second | 1700 | 0 | 0 | 0.200 | 0 | 0 | itus | 2 | l | |
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| the state of the s | | | |
|--|--|----------------------|---|
| Record | Prey execution time (secs) | Detection range frey | Time stepped to mapped term (secs) pess det of prey |
| 061164 1304 1332 112 | oe est | 24.5 | 150 JS |
| | 74 | 36.8 | |
| | 4 | 34.8 | |
| 061184 1353 1401 112 | 60 | lə.2 | 45 } poss detection |
| 131164 1616 1620 102 | 40 | | 15, 90, 15 |
| 111184 1024 1050 112 | 90 | 3.0 | 30 |
| | | 16-4 | 4 |
| 101184 1483 195 112 | 75 | 16.5 | |
| | holder of the second se | 24.8 | |
| | | 21.0 | |
| | na migra and a state of the sta | 58.2 | |
| | | 16.0 | |
| | | 60-0 | |
| | | 22.0) Pred | * |
| | | 22.0) Pred | |
| | | 30.0 menung | |
| 091184 1532 1546 112 | 60 | 5.5 | |
| 71184 1317 1342 112 | 105 | | |
| 71184 1335 1455 112 | 90 | | *** *** *** *** *** *** *** *** *** ** |
| 71184 0942 0954 112 | 60 | | |
| 61184 1137 1142 112 | 75 | 12.0 | |
| 61184 1114 1126 112 | - | 12-6 | |
| | X = 78.33 | 24.44 (mm) | |
| | S = 16.39 | S = 14.78 | |
| | n = 9 | N= 20 | |
| | | | |
| | | 2 | |
| | | | |
| | | | |
| | | | |
| | | | |
| * * * * * * * * * * * * * * * * * * * | | | |
| | | | |

19/2/85 - 20 x Chinese Reed containers. [CCs]
- : 15mm depth sand in each

Groups 1-5 5 prey items
6-10 10 "
11-15 15 "
16-20 20 "

Snow s placed into containers 1450-1500
* Snows & prey collected 18/2/85 at 1500 & & placed in sm index cents.
* One escaped him contain unknown which placed into

Temp @ 1505 = 27.6°C

* Container No 20 - poteter.

Wednesday 20/2/85

1300 20 piez tems pacad into large arener 4 groups 5/group



1345 4 predators pasced into overa. Nos 7,8,9,10. arena Temp 26.2 Soon helding tank 28.4.

1630 Nolo commanced movement - trucked to 1705

24t - predators calit overnight

1139 asever drawed

1140 1 pred surfaced with 2 prey in tow 1 " unbored.

1145 2th 11 commenced movement

Predator sizes: 10-65 mm, 11.12 mm, 9.24 mm

returned to centamers 7-10.

Tikal 5 pey coptured (ie bound).

Frday 22/2/85 Tides 1643 1.18
2233 2.21

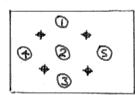
arena temp = 27°C Pred holding tank = 29.5 [areaten appears to have become off during might].

Water depth in aren 18 mm. Sand depth 12 mm.

heading tank temp after aeraten on = 26°C.

Predators

| 1052 | Noll | 11.0 mm | Posn 1 1054 | 8 1103 | |
|------|-------|----------|-------------|------------------------|--------|
| 1022 | No 12 | 12.9 mm | Posn 2 1056 | with prey when removed | B 1103 |
| 1057 | No 13 | 13.65 mm | Posn 3 1058 | 16 | B 1105 |
| 1100 | No14 | 11.4 mm | Posn 4 1101 | | B 1105 |
| 1102 | No 15 | 12.91 mm | Posn & 1103 | | B 1113 |



No 1] Total No prey 16 5 1 3 YILL 25: 22/2/85

No 12 -11 - 17 5 bored > " 17: 22/2/85

No 13 -11 - 17 10 bored, 2 borng commerced 46: 22/2/85

** 2nd P. concus found in container 10:85 mm placed into container 6 of 1202

No 14 Total No Prey 17, 7 bored, 1 anthoney bored. 40:22/2/85 No 15 Total No Prey 20, 9 bored 2: 22/2/85

1345 15 pay placed in each of 11, 12, 15, 14, 15 C.Cs temp 25.5°C.

1403 tide out.

1411 Surface just exposed: 1418 S.No. 15 truebed: 1424 SNo 12 truebed

in CL NO 15 removed after reaching arena edge placed in CL NO 15 with prey and returned to helding tank

1434 as with 15 above. Sn 12

Fn 22rd cont

1435 arona allowed to drive completey.

1505 the tide comming in

1514 Sn 11, 13, 14 removed In arena and placed in CCs with prey.

16 prey removed, 4 stace in creama.

Mon 25th /2/85

oso a number of snows dos an surface of sand with but extended (re upside down). Occreation had stopped and so may be due to 02 lock? After agreeting restored most returned to sand.

| | Cho | ck or | <u>T</u> | | | | | | Pres |
|------|------|-------|----------|----------|-------|------|---|-------|---------------------|
| Vial | [42] | 16 | 1041 | 11:44 mm | 1042 | Posn | 1 | B1052 | 5E + 3A +12U = 20T |
| | [55] | 17 | 1043 | 18.6 | 1044 | . 44 | 2 | | 8E +1A + 120 = 21 T |
| | [33] | 18 | 1046 | 10.72 | 104-7 | å# | 3 | | 6E +2A + 12U = 20T |
| | [[5] | 19 | 1048 | 11.14 | 1049 | le | 4 | , | 6E +2A + 140 = R2T |
| | [50] | 20 | 1650 | 11.86 | 1021 | i | 5 | | SE+ IA + ISO = RIT |

* Most of prey on sistace of sand locking rether unhappy. In knet Dmost monbund.

Sand given the ruses by & 1 of Sw.

1400 20 prey 4 gps 5 pared in arena commenced "tide out"

1405 arena temp 27.5°C, pied tolding 27.8°C, pieg holding 25.6°C

1427 No 17 moving, 1437 stopped and recommenced 5 min later track not recorded. as ods and no ancounters.

1615 20 prey each placed into CC's 16-20

1620 Reds semoved his arena and placed into CC's

Tues 26/2/84

```
[Vice]
Cheekont
                                      SE + 10 = 6T
No 1
       ಎನ3
                                 [4]
             10.65
                         Posn 1
                   0924
                                      6E + 1U = 7T
       0928
             11.75
                             2
                                 [8]
                   0931
      ∽30
             9.72
                                        4E + 10 = ST
                    0932
                             3
                                 48
  3
                                 [0]
                                        6E + 10 = 7T
                    <del>9</del>35
      0934
             12.82
                                 44]
       0936
                    0937
                             5
                                        IE + 2A + 2U = ST
  5
             11.70
                                         * one of U died
```

1020 water How to arena stopped.

1045 4 gps of 10 prey placed in arena.

1147 Red No4 dos moving reached edge of tunk. Passed within 70 cms of prey dump with no apparent change in track

1200 arena temp 25°C: Pred holding 27.5°C

1253 No 4 obs back in arenon - trucked to 1258 OOA

1301 No 1 morning trucked to 1304 - OOA.

1309 "I and "4 one each other along edge. I moved around 4,

1313 4 back in areas timeked to 1318 - OOA.

401 encounter between edge following snails - politoly moved around each other.

No huther prey pleced with preds.

Wednesday 27/2/85

No 6 1302 10.86 1305 Posn 1 [
$$45$$
] $4E + 1A + 7U = 12T$

7 1305 10.20 1306 2 [16] $3E + 7U = 10T$ *1

8 1307 11.69 1307 3 [41] $5E + 1A + 5U = 11T$

9 1308 9.35 13089 4 [24] $= 11E = 11T$

10 1310 11.14 1311 5 $= 4E + 6U = 10$

*1 Most uneaten pay dead / decayed!!

*2 I prey Tem 2x besed.

Thus 25th/2/85 with prey.

wed 6th March 85

Tracking at 3 M creek.

Thurs 7th/3/85

Truebung at 311 creek.

Sun 10th/3/85

arena deamed out 1500.

- 10 evensized preds replaced in areamon
- 5 others preserved.
- 2 penade of trucking poor to dearing out

Men 11th/3/88

1300 lights switched off. [sand surface leveled out pror to]
to test for manufacture response to arthuric light
as capturation for curaller merenent of snows.
No response expected as trues during night showed
some curaller merement.

Tues 12th

1500-1700: trucking, note observed circulanty not same ker all snowles, others have less terming rate.

wed 13th/3/85

0830 - : trucking

Thurs 14th/3/85

0800 - 0830 timeking

1300 sand surface smoothed over (knocked 3 preds).
50 med 1. converter placed happaged by into crema.

1314 | pred surfueed - commedied true king

1316 1 ped " - " "

2 hurtler preds searching

1331 car preds caught pay and humad.

- 1334 2 preds serkere (had prev cought pred) and continuing movement.

 not apparently search meremants har prey as habite but
 as prior to prey have introduced. They he are antifect
 af arena as are looking her suitable spot to himon.
- 1362 both above stice merring, other 2 which captised pray have not mered again.
- 1418 I pied stee moving in circles with pit, appear 20-25 cm din. [pied No 10]
- 1420 with pipette victor squisted into NoIO to reveal No subsequently and burnowed and did not resurface.

1436 Sand smeethed

1700 Nobuther movement by predators. Water temp 24.8°C.

1800 - 1619 3 ped moung two trucked. I cought 2 prey.

Observations on trucking 1800-1900

Predater - predater interactors:

- (1) true traceing of one predator with coplained prey
- (2) best beopto perception: true tollowing predator burnerved down and remered one prey prevently captured less by other predator (had captured tue) are encounter by another pred of begto pred resulted in loss of one prey item, recently captured.
- 3) after capture of prey tem predators continue mening this may be a response to avoid deptoperente behav.

Friday 15/3/85

0800 - Sand smoothed over.

0800 - 1300 trucking

1400 - sand smeathed over.

Saturday 16/3/85

Sunday 17/3/85

OSSO Solt water recure stopped (obs. time net actual)
Temp dropped to 21.7, water law coased
no trucking expt terminated.

Monday 18/3/85

1530 aream cleaned out - expt stopped. prey into use 62 Pred sizes

20 - 11.96 mm

7 - 10.20

2- 11.70

19 - 11.20

8 - 11.68

10 - 11-10

20.01 - 31

B - 11.70

1 - 10.81

6 - 11.44

Thers 21/3/85

1400 predators and prey coexcerted from Rowes Buy 3rd con park.

1600 "Hugs" gaved ento 5 peds and pascad into arena. No prey in arena.

Tues 26/3/85

* apparently ass active, + no response to "and tide"