

JATA

BALAZS

1987

JATA III BOOK 3

BALAZS

G. H. BALAZS



COMPOSITION BOOK • 9¾ IN. x 7½ IN.

AVAILABLE AS:

VM COMPUTER NO.	B&P STOCK NO.	SHEETS	RULING
09-9130	13534	60	COLLEGE RULED & MARGIN
09-9132	13535	60	COLLEGE RULED & MARGIN & PAGED
09-9134	—	100	COLLEGE RULED & MARGIN

BOORUM & PEASE CO. ELIZABETH, N.J. 07208

MADE IN U.S.A.

Bob Autry Bldg 18
1124 ext 3509

POUG - 422-6605 ext 3182

2 - 100'x10' foam floats

4 - 60'x10' foam floats

1 - 60x8' foam floats

1 - 74'x9' wood floats

1 - 78'x7' wood floats

- NEEDS -
- Pesticide spraying?
 - OUTFALL LOCATION ON EIS? PERMIT 50' OFFSHORE?
 - BW PHOTO ON WALL 2nd FLOOR JOC
 Volume - Temperature?
 - Shows PROMINENT Bryopsis HEADS - W/ dredging-fil
 - Light intensity / WAVE LENGTH
 - GBG Brine / tanks

12-14-87

Sent to A.E. NEVISSI, Fish. Res. Inst., UNIV. WASHINGTON -

BONE SAMPLE: TAG 4174 (4 pieces) ~ 4.5g

" 7467 (3 pieces) ~ 3g

29 NOV 87
SUNDAY

NETTING DAY #5
CONTINUED
FROM BOOK 2

3

1:26-1:56pm JACADSTOWER GB, TJ nets + (7 total) seen
Sewer 2:44 pm
1:54 " 1 small
2:09 " near Manta Ray head

Thea down times 2:41"
9:23"

2:00-2:15pm Tower (west only) GB TJ (2 total)
1 Big near corner

3:00-3:30 Redhat GB TJ (6 total)
Down times 2:30
GB 7:20"
3:53"
5:40"
TJ 3:20
6:41"
4:45"
3:28
3:53
3:17
5:02

note - Recal. previous results in next report.

4

11-29-87 netting DAY #5
SUNDAY

350 - JACADS RF & D.F.
420pm tower

Doug - Looking "North" - toward shore (12)
RF "South" - toward nets #1, 2 & 3

Downs - Doug 5' / 5'
9' / 5'
RF 1 / 5 / 10
3 / 3 / 1 / 5

(7)
(19) Total

Saw one approach
net #4 and go
around.

509-5:25 JACADS North RF - 10
(GB RW TO) Tower South BB - 4 (14 Total)
our arrival to pin nets

535-555 " RF north 2 (3 Total)
5pm - 5:25pm South via west end. BB South 1
MOTOT around

Apparently most left area - swim away

lots of Caulgipa caught on
bottom of nets (65').

Back to Port by 6:15pm.
Ref FLAG UP AGAIN BY MID-AFTERNOON.

30 Nov. 87
MONDAY

NETTING DAY #6

NO BLASTING AT
SAND ISLAND HEARD
TODAY - ONE TURTLE CAUGHT.
NET #3 -

5

Breakfast at 6:30 AM - w/RFTJ
BB & RW slept in.

8:05 AM BB, TJ & RF depart port -
arrive nets 8:20 AM

I departed JACADS tower 9:15 AM
to take RW baggage to airport.

Winds seems to have shifted
more to the east - choppy near nets.

9:30 AM
10 AM - finished repairing nets
→ Net Number # pinned up. 2 eyes - still caught bottom

"
a "bum king" reported to GB alone -
have caught many turtles w/CRIS
1970's

11:15 AM RW reports capture in
#3 net. GB, TJ & BB got it.

Processed in port building after lunch -
Nerve gas exercise ~ 9 AM.

1:24 PM = 1:39 PM JACADS Tower
GB TJ
6:30" DOWN

Barry Choy in; RW out.

(4) total
1 associated
w/ manta head

#7467 Shell/skin scraping

<u>Polysiphonia tsudana</u>	95%
<u>Sphacelaria</u> sp.	5
<u>Achrochaetium</u> sp.	Trace
<u>Arthrospira</u> sp.	Trace
<u>Bryopsis</u> sp.	Trace
<u>Crinalium</u> sp.	Trace
<u>Dermocarpa clavata</u> *	Trace
<u>Dermocarpa</u> sp.*	Trace
<u>Leptochaete hansgirgi</u> *	Trace
<u>Oscillatoria</u> sp.	Trace

Copepod (see drawing)
Round worms (see drawings)

*epiphytic on other algae

#7467 Stomach sample, 11-30-87 (I would re-check the source of this sample it looks identical to skin scrapings, not at all like a stomach sample)

<u>Polysiphonia tsudana</u>	75%
<u>Sphacelaria</u> sp	25
<u>Arthrospira</u> sp.	Trace
<u>Lyngbya majuscula</u>	Trace
<u>Microcoleus</u> sp.	Trace
<u>Oscillatoria</u> sp.	Trace
<u>Polysiphonia</u> sp.	Trace

Multisegmented copepod
Several very long, very thin, partially coiled roundworms

#7467 Fecal sample

Bryopsis sp.

Only distinguishable algae

30 NOVEMBER 87 Monday

NETTING DAY #6

11:15 AM NET #3

7

TAG

NO.

TAG RECOVERY - EXPANDED

(57.4) 10/83

LF-7467

ONE DATE THIS DATE

68.5 X 54.4

Notch - 68.0

RF-7466

C - 75.5 X 69.5

LF3-4/4179

NEW

LR-4180

PL - 53.8

HEAD - 9.9

TAIL - 14.0

RFF - 11.5

Weight - 98# AIRPORT ACCURATE SCALE

BLOOD - 4 1/2 cc's taken + 2% formalin

Small amount blood out - FECEES - taken - formalin preserved

STOMACH - taken - " " "

BONE - Sample taken from left 10th & 11th & 11th right

COMMENTS - Recapture - Red algae taken from ventral - healed notch in 10th right picture taken.

Ulcer on back of neck

Frames 28-36

Oryzopsis sp. present

clear whatever you call it) cloacal papillae
↳ you know, the mouth

30 NOV 87

MONDAY

NETTING DAY #6

9

- Need Forcell counts made w/ his boat since I was here in August

- DAYS blasts (BLASTING STARTED) 11/24/87

- Sewer double near girders? 9 overflow Doves Smith

340-355 pm JACADS Tower

GB-North-5
RF-South-4

(9 Total)

RF & GB

10 min down

5:15 pm depart port

GB, BC, BB to pin up nets - pulled out #4 net. Anchors came up without diving on them.

Cloud banks reduced light. west end circuit. no turtles seen Red hat.

JACADS Tower

RF-TJ 5:20-5:35pm

(10 Total)

A 1:20" down TIME

~ 5:40pm-5:55pm RF

(4 Total)

(following arrival of boat into the area)

Returned to Port ~ 6:20pm. Had ordered Bento Dinner. Ate it watching TV basketball in Robert's room.

10

Temp -27°C
at the surface

PLASTIC Holders for QSL's
BOB AUTRY WY5L
AES CATALA

1 DECEMBER 87

NETTING DAY #7

TUES.

8:30 AM GB & BB ARRIVE TOWER

8:20 TO, RF BC boat w/ nets

65' set ^{MRM}
#7 #19

65' wood float
Seawall #8 #16

Returned to port ~10 AM

1052 AM - Blast heard

276 pm - 2 blasts

446 pm - 2 BLASTS

11:30 AM BB checked net -

11:10 - Saw turtle caught in #2 net
11:30 AM GB, BC, BB - no more and
Saw turtle (large), but
it came out.

309-324 PM REDHAT
GB BB TJ
5 1 5
(one by head)

11 Total

3:25-340 PM 2 5 2
repliate

9 Total

Brenda - 28°C 12/2/87 - Depth of attachment LINE Tower = 11

NETTING
1 DAY #
7
DCC
(TBS)

length of thermometer cord

4.5m/15' to eye level.
ISLAND SURFACE
5-10' above
2m sea level (?)

Down times -
5' 53"
4' 45"
4' 15"
2' 56"
1' 45"
7' 28"
7' 0"

Red hat

12/1 5:27-5:42pm RF/TJ - Tower
RF South 4
TJ north 4
5:50-6:05pm
but there
South 3 north 0

JACADS Tower

3:53pm - North TJ/BB - 9
4:08pm South GB - 4

Replicate
4:11-
4:26pm

TJ North - 11
GB South - 6

13 total
17 total

Down Times -
4' 11"
4' 26"
1' 45"
4' 31"

5:15pm GB, BCR pin up wets.
6:10pm returns to port

BACKNOTES:

13:50-14:20pm RF north 10
(15:00-22:00pm) BC south 8

Downs 2, 10, 30", 7, 1, 1.5
18 TOTAL

NETTING DAY #8

2 DECEMBER 87

WEDNESDAY7:45 AM Meeting.
Put net in B.W.8:33_{AM} RF & GB at tower -
BC, BB & TJ - set ~~Ala #8~~ #9
net site

10:18 AM UNPINNING finished -

(2) Total seen - casual observation.

FIRST NIGHT FENCE SEC. lights on = 11/30
7 TO THE EAST; 3 TO THE WEST.
Fish graze there more because of
illumination?Bary - 2nd blood test
+ MAC papers.Scuba at 1245 pm depart -
return ~ 315 pmX
Dory, Robert, BB in the boat.

MAY '20

DIVE #1 52 MIN MRM &
net #7

2 Dec. 87 NETTING DAY #8
Wed.

13

DIVE #2 (MAX 18)
Net #3, adjacent
coral head, and beside
seawall where tower is.

90 min

estimate (< 25% on hard substrates).
Earlier, from boat, noted Caulerpa
growing on face of seawall

Strong winds, 22-25 kt.
~~red flag~~ up. Passing rain
squalls.

Collected Caulerpa for analysis -
Berry clusters only like turtle would eat!
Need more with stems for
radioclastides.

Noted and collected sample of
curly Caulerpa - noted abundant
amounts - not recalled in
this volume before - possibly
before it was close to shore.

Pinned all nets except #2, #3.
By driving rain squall.

Dive #2 Benthic growth

Caulerpa serrulata

14 Sgt. Pete SZECKERES 45yo
Box 817
JA

Father - Sarah
Mother - JOHN → 8927 Kelly Ray
Det Ray
↓ 82yo
now lives with Miklosz
at 7928 Kentucky
LINCOLN PARK, M1

G. Burns Sr.
never heard name,
don't know
of him.

12-3-87
Thurs

NETTING DAY #9

3 DEC. 87 NOTE - NO BLASTS HEARD 12/13
THURS. Red flag all day - stronger than yesterday.

Tangled eagle rays - near surface -
all released alive.
big Manta seen @ 10:37 side Jit ADS 12/2

Note - Higher proportion of small
turtles being seen this trip
(even compared to Aug. Boat count?)
Smaller turtles I feed were
on Caulerps? Less on Bryopsis?

Checked two down nets #2 & #3 at
7:15 am, 15 minutes before sunrise.
Floats in center of #2 down
slightly.

8:20 AM depart port BC, RF BB -
to unpin.

Net #9 moved parallel #10
now



9:40 AM nets
finished. (Total

085
12:30
T
"Blowing
Ab

Rey

12-3-87
Thurs

note - no scuba air -
Compressor not working
4 left Redhat after only 4.5 min count -
2 Bunker doors open - warning by MP's. (see
NEXT PAGE)

12/5 Breeze - 15
down 10 days
for an ~~dept~~
count

note overall
note - not many caught due to
lack of large Nogs. present?

That's why listed as "threatened"

0850-0905 TJ (1 total) During net unpinning; ALSO (0) turtles
12:37 - 12:52
Tower TJ North (10) (11 total)
GB-South (1)

"Blowing like heck"
+ S. swell
Saw down 5'14"
2'12"
Big wave -
swam fast.

Ref. 1257am north GB - 9 (all small, we on head)
1:12pm south TJ - 2 (11 total)
down 2'15"
5'41"

no scuba today - strong wind no
compressor, RFA & VBB colds.

JOHN MONACO - MP's custodian

3 DEC. 87 THURSDAY

Red HAT

1448-1503

(248pm - 303) -

BB, RF, TS, BC

(7) total

2:03 down Time

JACADS tower (same people)

315-330 pm

(20) total

Replicate

330-345 pm

(26) total

down times -

2' 30"

1' 20"

12/3/87 Netting Day #9

17

Thursday - All nets left overnight
Fast check GB, BB & TJ

546 pm - 601 pm

1 very large by wall ← TJ - 7 North
GB - 3 South
BB - 2 SW

(12) total

3'45" down

Manta seen by nets #7 & 9

Swam near them, but capture possibly prevented by path way being with and against current -- not perpendicular.

No checks after 6 pm, -- too dangerous to get turtle after this time. (Doug suggested go out from wall!).

NETTING DAY #10

December 4, 87

All nets left overnight

FRIDAY TO JACADS tower before sunrise - 7:05 AM - Brief obs. -

RF, GB, TO.

Rays seen in #8 net. (no turtles seen)
GB BC & TO to nets at 8:30 AM - RF & BB have colds.

- 2 eagle rays in net #3
- 4 net #8 (wood floats)
- 2 just released recaptured loosely in #2.

Lifted on all nets to check for catches. Slight seas - black rain squalls nearby.

Pulled net #8 - very twisted.
BROUGHT TO PORT -

∴ Remaining nets #1, 2, 3, 5, 7, 10. All left out this night.

Returned west end ~ 10:30 AM

Boat Survey

26 - small
14 - medium
11 - large
3 - no size estimate

28 Assoc. w/ BRP/BSIS / 54 TOTAL

47
FR155
(3)Reg
1608164
(4)

1553

(5 MINUTES)

4 DEC 87 12:40 - 12:45 PM RFB BB
 FRIDAY only I seen - large rain squall arrived - observers departed!

10:1 pm - 1
 11:6 pm

GB - N 3
 TS ^{net} #10 area 1
 BC - S 2

(6 total)

5' down TIME

Attempted to scuba, but compressor problems and heavy intermittent rain squalls prevented it. scuba bottled air

JACADS 1553 - 1608 TS BB
 (353 pm - 408 pm) N - 7

(10) total

Rephile S - 3

1608 - 1623 N - 8

(11) total

1645 - 1703 (495 pm - 503 pm) originated JACADS = blue sheet plastic found West Channel (boat survey done same time) 2' x 15'

2 on head between nets 1 & 2
 1 " " " " 3 & 4

1553 - 1750 DF BC & GB FWS Boot survey

(8) total More turtle S than before (?)

NOTE - EARLIER HEPATITIS EVACUATION,
 MY call to DISPENSARY - "PAM"

NETTING DAY #11

5 DECEMBER 87
 SATURDAY

All nets left
 overnight

All 6 nets, again left down
 last night - checked at first
 available light - 7:15 am.
 Nothing seen in them - not even
any rays.

Again proving turtles aren't
 active at night, even with moonlight
 (full moon).

LEE
 COFFMAN

Worked on net #8 (pull yesterday)
 Snag from rays.

Visited radiation safety office.
 "Mining Plutonium" - ~~Byron~~ O'Neil
 Talked to Byron Ristum (Enewetak
 volume coming out - also he
 told about value catching feeding
 turtles at Enewetak.
 Concern also for eating Tridacna.

NO BOAT TAKEN INTO NET AREA THIS MORNING

9:34-9:51 AM TJ to #10 net - 1 (5 total)
 GB-5 - #

nets #1 & 2 too much glare -
 can't see to count.

NE

D
 106-
 128/
 22
 MINUTE
 15'

DIV
 20'
 1:53
 21

5 Dec 87 SATURDAY

netting day #11

Scuba Dive depart 12:30 pm
BC, GB & TJ.

Low tide - lots of heads exposed
Byopsis. Milky water. Lots
of Byopsis pieces seen. Several
Turtles seen at the SURFACE.

DIVE #3 start INSIDE of and slightly
106- to the west of net #5

128pm
22
MINUTES
15'

Toward seawall and inland.
Noted drifts of Caulerpa on
sand bottom, but not nearly
as extensive as 1983 sightings.
Hard substrate has C.v. but
coverage not as great, not
90% - 100% more like 50%
estimate. Collected Caulerpa.
So many holes, ledges, etc. visibility
turtles would be very
hard to find/see.

Dive #4 - partially sub. head just
20' to east of #1 and 2

1:53 pm -
2:10 pm
18 MINUTES

Collected Byopsis.
Like a turtle might eat it.
Saw "grazed" areas.

5 Dec 87 Sat Wetly Day #11

Dive #5 GB-BC

2:36-2:45 pm just to the north of
9 minutes piling in turning bobbin

Saw coral formations, small
20' fish, and many "bulbs" of
Symbiopsis (presumably).

Redbat census BB&RF

12:45-1 pm

(2) total

1-1:15 pm

(6) total

17 new metal job security
lights. Installation not yet
completed.

JACADS Tower

4:55-5:10 BB BC

pm

↓
N=9

↓
S=6

(15) total

5:10-

5:26 pm

BB-N = 11

TJ-S =

(2)

(13) total

note
difference

5 Dec 87 all nets again left
down overnight

Saturday

Bagged all algae collected
and froze it for nutritional
analysis and radiocesium
others took tour of JACADS plant
with Dean Daniels

6 pm - last check of nets for day -

alone. Saw mantle back and
forth by #10 & #3 nets.

Observed turtle by wall surface
on two occasions near exhibit
"pane" dip - either by seeing
me in tower, or tower itself.

6 DECEMBER 87
SUNDAY

Check nets at ~ 7:30 AM -
High tide + wrap around surf
resulting in lots of wave water
splashing over seawall. Net #1
shifted to the west, near net #10.
Foster determined that windward anchor
had chafed through causing net to
turn end-for-end.

6 EAGLE Rays in the #10 net -
none in others (in front of
JACADS Peninsula).

At 9-
10 AM all nets (6) were
hauled out and taken to Port Control
(two trips needed). 2 anchors and
chain lost due to fraying.

All nets laid out on piers, hosed
down, dried, stretched and
mended before storage for shipping.
* Torch burning of bent ends and fraying
needed.

All day job.

Mid-afternoon Doug found out
location of outfall and drove
me to see it. Photos taken the
following prior to departure.

6 DEC
SUNDAY

15 MIN

15 MIN

TE

6 DEC 87
SUNDAY

12/6/87
JACOBS Peninsula
0905 - observations begins
0910 - whale arrives

BLB - looking North

TCT - looking south

0920 pau

⊙ Turtles

net #1 - migrated to a position
parallel to net #9 & was
pulled up at 0924 hr.

whale is in vicinity of nets
0925 and turtle count begin
0930 - Looking north - 1

TCT - looking south

total 1 turtle

net #9 pulled at 0930 hr.

Temperature of outfall = 30.5°C
nearby ocean surface = 27.5°C

6 DEC. 87

SUNDAY

GB & BB Jacobs towers
observations at

503-518 pm

N = 8

S = 3

Total (11)

520-535 pm N = 15

S = 5

(3 w/ heads
near where nets
were situated -
all small)

total (20)

7 DEC. 87

Monday

At 7:30 am transported
all boxes and coles
with "blue ice" plane to
airport for checkins.
Finished 8:30 am

Plane arrive 1145 am

Depart ~ 1:15 pm

Visited outfall site again.

Met at Hickam by John Henderson
CIN Christian & PAUL.w/van
TRUCHT

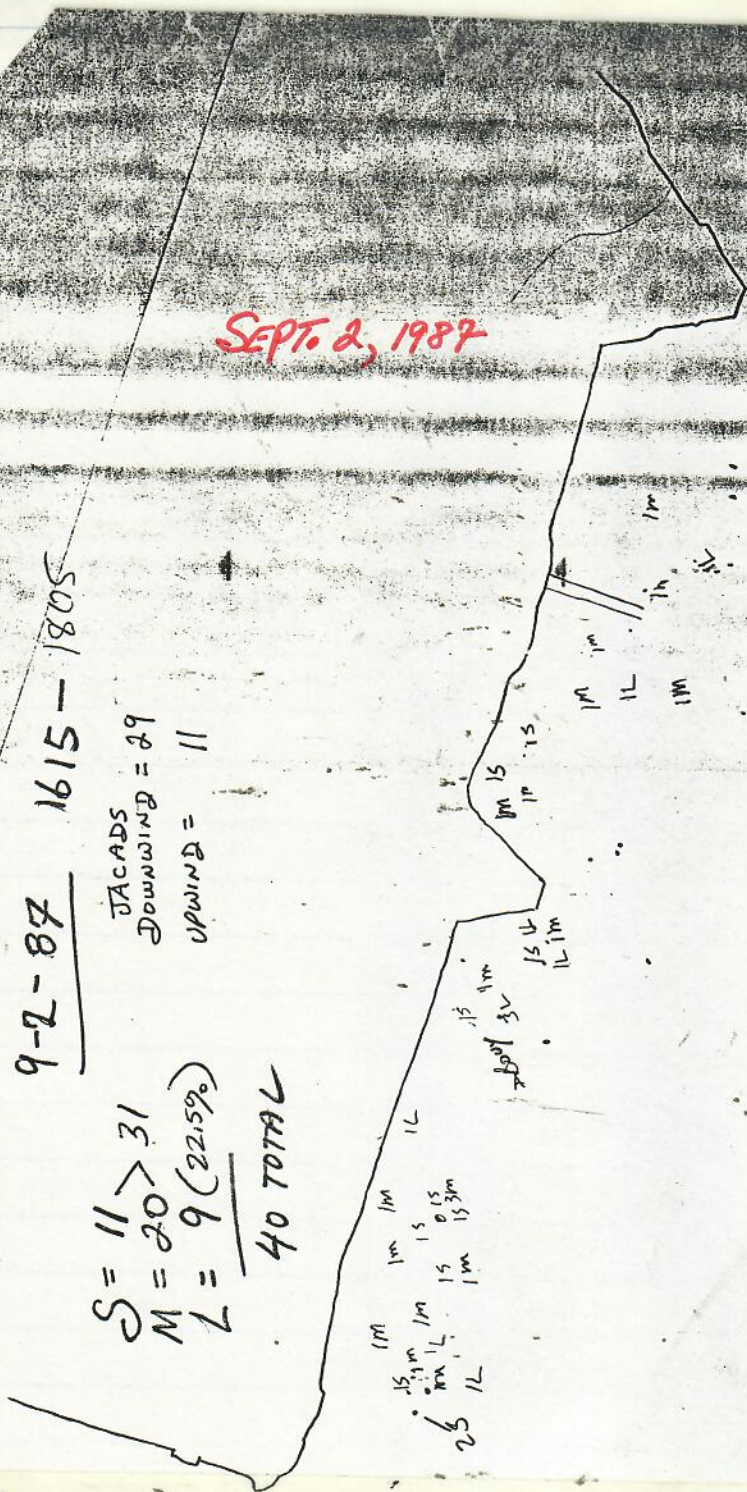
SEPT. 2, 1987

WPT total
1 hr 50 min

9-2-87 1615-1805

JACADS
DOWNWIND = 29
UPWIND = 11

S = 11 > 31
M = 20
L = 9 (22.5%)
40 TOTAL



Oct. 25, 1987

START 1450 25 OCT 87

FINISH 1632

GREEN SEA TURTLES

OBSERVERS

- DOUG FOESELL

- GUS ELLIOTT

SEA CALM

NO WIND 5K

WATER CLEAR VIS 20' DEEP

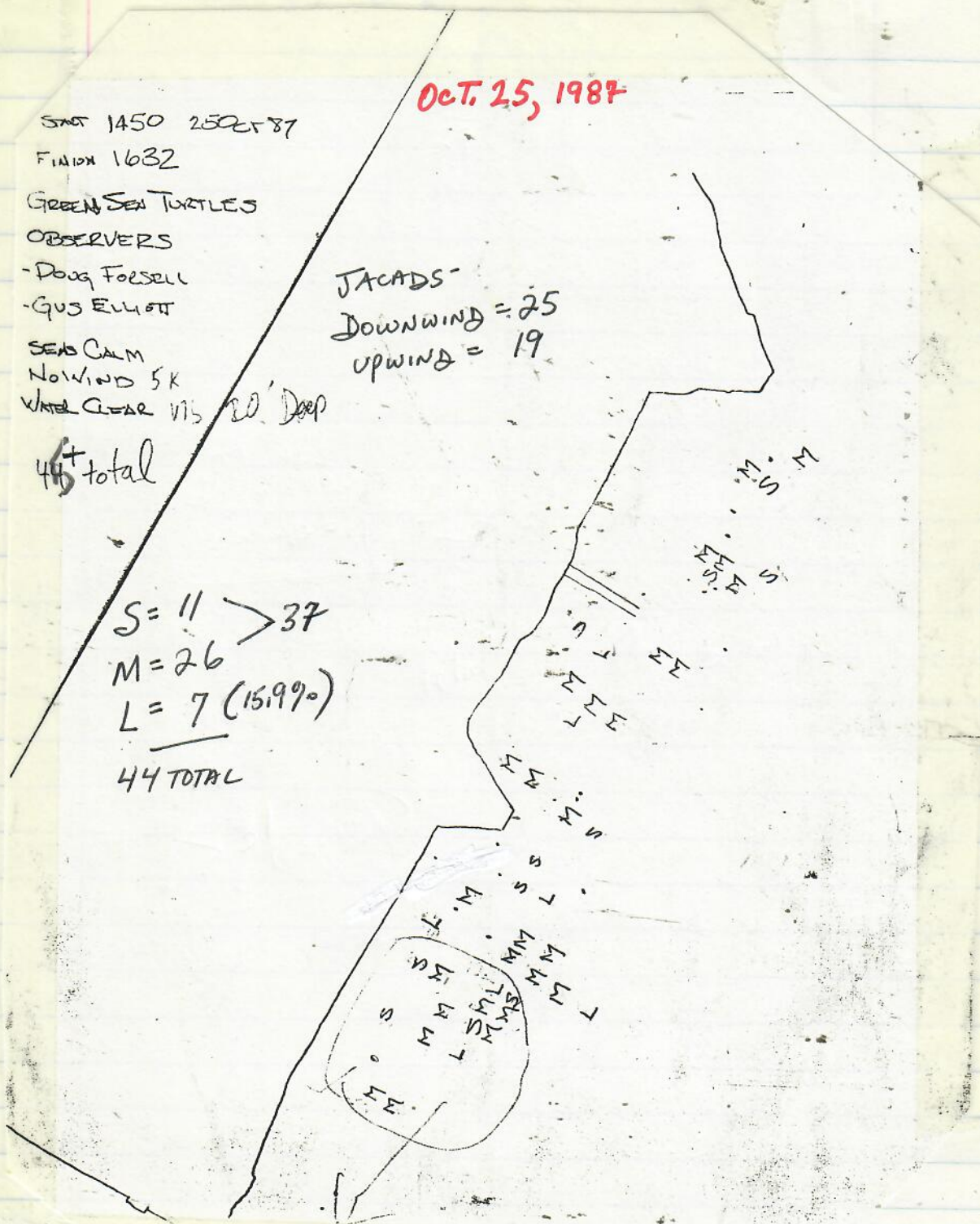
44⁺ totalJACOBS -
DOWNWIND = 25
UPWIND = 19

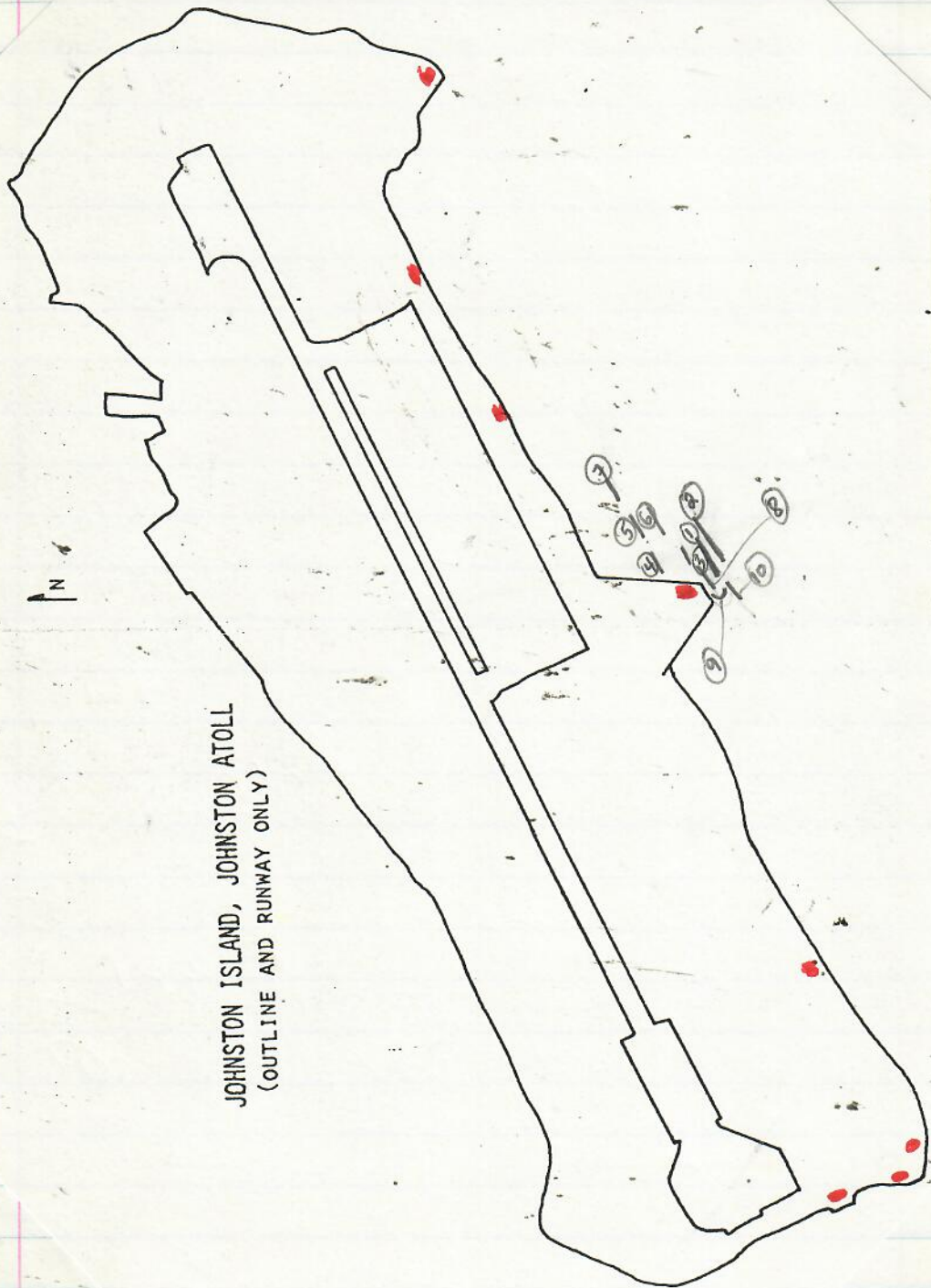
S = 11 → 37

M = 26

L = 7 (15.9%)

44 TOTAL

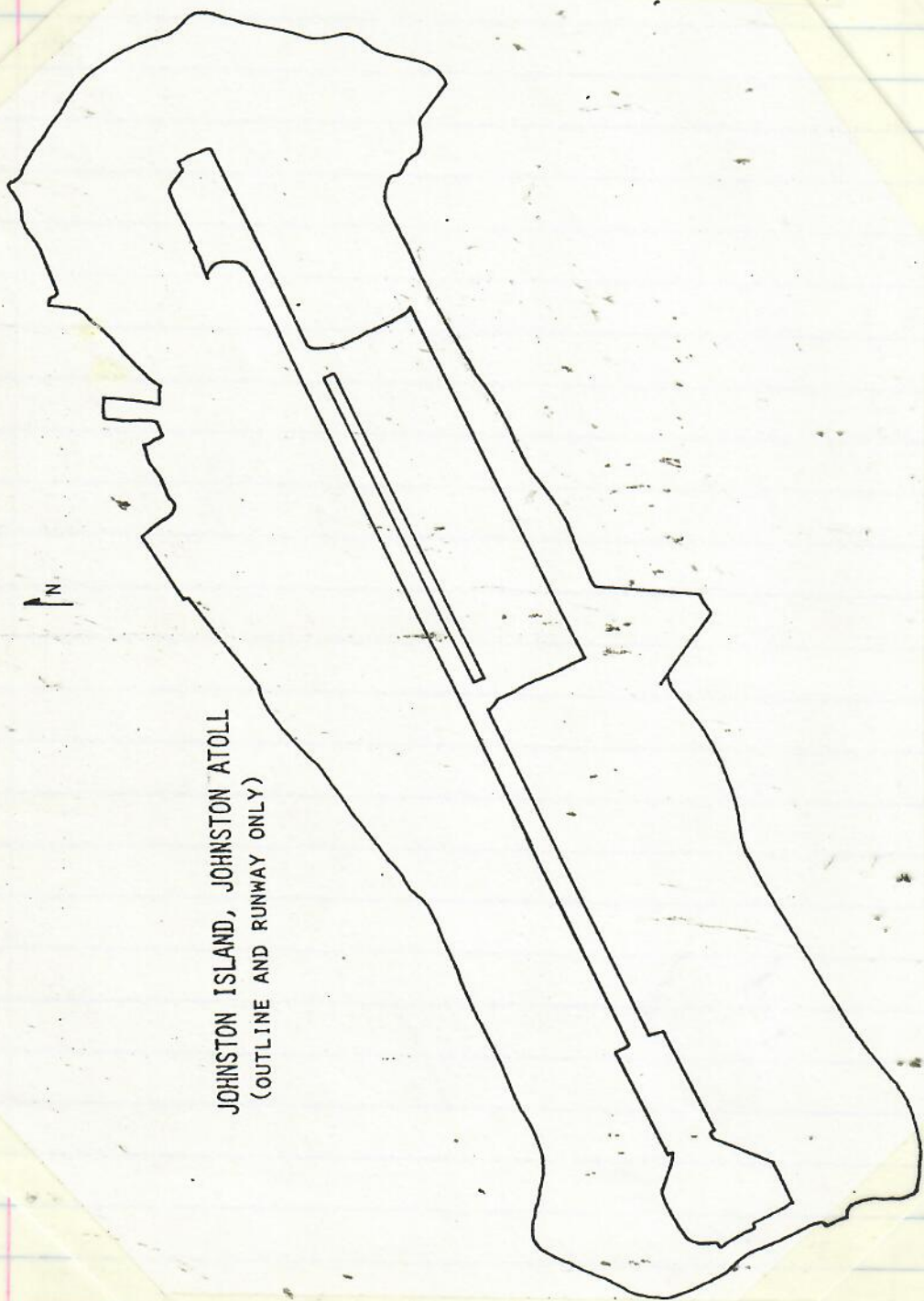




JOHNSTON ISLAND, JOHNSTON ATOLL
(OUTLINE AND RUNWAY ONLY)

N

● = observation points



JOHNSTON ISLAND, JOHNSTON ATOLL
(OUTLINE AND RUNWAY ONLY)

N

0255Z = Zulu time
 455 PM PREVIOUS DAY
 Wind dir 06
 speed 10

Date	Time	F ^o temp	Wind dir	Knots speed
11/22	0355	83	07	10
11/23	0355	82	06	10
11/24	0255	83	06	18
	0355	82	06	16
	1955	80	06	14
	2055	83	07	17
	2155	83	06	24
11/25	0255	83	08	20
	0355	83	08	18
	0255	84	09	18
11/26	0355	82	08	15
	1955	82	06	14
	2055	83	06	15
	2155	83	07	16
11/27	0255	83	07	10
	0355	82	07	16
11/28	0255	83	06	16
	0355	82	06	20
11/29	0255	83	07	23
11/30	0255	82	07	20
	0355	81	06	20

TO CONVERT ABOVE TIMES TO LST subtract 10 hours
 to convert LST to GMT add 10 hours

I.E., 2 AM over 15 44 pm of previous date.

11/30					
12/01	0255	82	07	22	
12/01	0355	81	07	25	
12/02	0255	83	09	22	
12/02	0355	82	09	20	
12/03	0255	76	08	26	
12/03	0355	75	07	20	
12/04	0255	82	07	20	
12/04	0355	81	07	18	
12/05	0255	79	06	22	
12/05	0355	79	06	23	
12/06	0255		07	15	
12/06	0355		08	20	
	Wind dir	06-07		ENE	
		08-09		E	
	Comp Sunday	4-6 pm			
	Data from NOAA	weather station			
	Johnston Atoll				

JATA III
- NETTING SUMMARY

DATE 1988	NET LOCATION	NO. CAPTURED	DURATION IN HOURS	NET LENGTH (M)	NETTING EFFORT (M-H)
-----------	--------------	--------------	-------------------	----------------	----------------------

1.5. 2 AM over 1.7 4 pm at 1

RESULTS OF TURTLE NETTING EFFORT IN METER-HOURS

NET LOCATION	METER-HOURS	METER-HOURS PER TURTLE	NO. CAPTURED
-----------------	-------------	---------------------------	-----------------

CHLOROPHYTA

Bryopsis sp.*Caulerpa racemosa* (Forsskal) J. Ag.*Caulerpa serrulata* (Forsskal) J. Ag.

PHAEOPHYTA

Sphaerocystis sp.

DIATOMS

Actinocyclus sp.*Trinellium* sp.*Darmocarpa clavata* Guttler*Darmocarpa* sp.*Leptochorda nanogirax* Schmidt*Thalassiosira* sp.*Microcoleus* sp.*Ustilaxilla* sp.*Sphaerocystis* sp. (Ag.) Guttler

Notes:

I was not able to finish a few of the identifications in species because there was either a lack of reproductive structures or conflicting features. Enclosed are drawings of some of the blue-greens, one of the round worm types and one of the copepods. This report brings your credit to 25 samples. I will work on the Hawaii and Florida samples next.

Alch

D. J. ...

SUMMARY

RHODOPHYTA

Achrochaetium sp.
Polysiphonia tsudana Hollenberg
Polysiphonia sp.

CHLOROPHYTA

Bryopsis sp.
Caulerpa racemosa (Forsskal) J. Ag.
Caulerpa serrulata (Forsskal) J. Ag.

PHAEOPHYTA

Sphacelaria sp.

CYANOPHYTA

Arthrospira sp.
Crinalium sp.
Dermocarpa clavata Geitler
Dermocarpa sp.
Leptochaete hansgirgi Schmidle
Lynngbya majuscula Gomont
Microcoleus sp.
Oscillatoria sp.
Schizothrix calcicola (Ag.) Gomont

George,

I was not able to finish a few of the identifications to species because there was either a lack of reproductive structures or conflicting features. Enclosed are drawings of some of the blue-greens, one of the round worm types and one of the copepods. This report brings your credit to 25 samples. I will work on the Hawaii and Florida samples next.

Aloha,

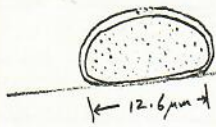
David

Blue-green algae

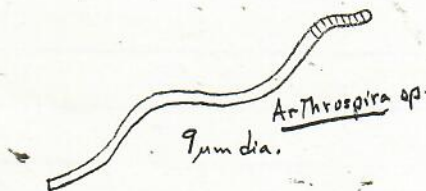
*7467
skin scraping



Dermocarpa clavata Geitler

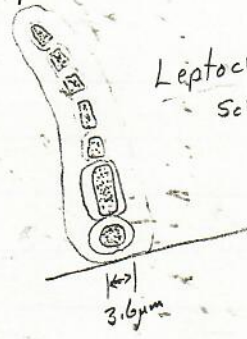


Dermocarpa sp.

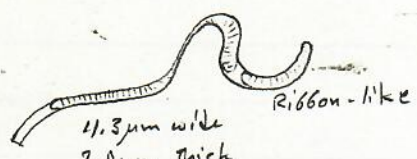


Arthrospira sp.

9 μm dia.



Leptochaete haugergorgi
Schmidle



Ribbon-like

4.3 μm wide
2.0 μm thick

Crinalium sp.



418 μm Long
22 μm wide



198 μm Long
22 μm wide

Round worms



copepod?

Girder Beach 12/5/87 (piles of beach drift)

Caulerpa serrulata

Table Carapace bone/lamina samples from 10 green sea turtles, Chelonia mydas, captured, tagged, and released at Johnston Atoll in September 1985.

Dry/ # wet	Sample ID No.	Weight of turtle (kg)	Carapace length of turtle (cm)	No. of pieces in samples	Total weight of sample (g)	Pu-239,240 dpm/g
<u>Adults</u>						
1	0.85 7445	105	88.4	4	6.6	0.007±0.002
2	0.79 4165	102	86.5	4	8.9	0.11 ±0.007
<u>Subadults</u>						
3	0.77 4153	58	73.9	4	5.6	0.03 ±0.002
4	0.71 4170	52	71.8	4	8.7	0.005±0.001
5	0.77 7441	50	69.8	4	3.7	0.004±0.001
6	0.86 7433	48	69.1	4	3.6	0.003±0.001
7	0.84 7449	43	68.1	4	2.5	0.10 ±0.03
<u>Juveniles</u>						
8	0.78 4161	38	61.9	4	4.6	0.02 ±0.004
9	0.78 4157	28	58.5	4	5.9	0.01 ±0.003
10	0.75 7437	18	50.4	4	2.4	0.01 ±0.004
Total					52.5	
11	0.99	Piece of bone (FROM ENEWETAK)			168.7	0.009±0.0005

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BODY MEASUREMENTS AND WEIGHTS OF
TWO GREEN TURTLES SAMPLED AT
JOHNSTON ATOLL.

TAG NO.	Carapace length		Carapace width		PL	TAIL	HEAD	Weight
	STraight	Curved S	S	C				

METRIC SYSTEM WITH U.S. EQUIVALENTS

METRIC UNIT (1) U.S. EQUIVALENT

LENGTH

millimeter	(mm)	0.04 inches
centimeter	(cm)	0.39 inches
decimeter	(dm)	3.94 inches
meter	(m)	39.37 inches
decameter	(Dm)	32.81 feet
hectometer	(hm)	109.36 yards
kilometer	(km)	0.62 miles
myriameter		6.2 miles

AREA

square centimeter	(cm ²)	0.155 sq. inches
square meter	(m ²)	1.196 sq. yards
are	(a)	119.60 sq. yards
hectare	(ha)	2.47 acres
sq. kilometer	(km ²)	0.3861 sq. miles

WEIGHT

milligram	(mg)	0.015 grains
centigram	(cg)	0.154 grains
decigram	(dg)	1.543 grains
gram	(g)	0.035 ounces
decagram	(Dg)	0.353 ounces
hectogram	(hg)	3.527 ounces
kilogram	(kg)	2.2046 pounds
quintal		220.46 pounds
metric ton		1.1 tons

METRIC UNIT (1) U.S. EQUIVALENT

VOLUME

cubic centimeter	(cm ³)	0.061 cubic inches
cubic decimeter	(dm ³)	0.0353 cubic feet
cubic meter	(m ³)	1.31 cubic yards
cubic decameter	(Dm ³)	13.10 cubic yards

CAPACITY, CUBIC

milliliter	(ml)	0.06 cubic inches
centiliter	(cl)	0.6 cubic inches
deciliter	(dl)	6.1 cubic inches
liter	(l)	61.02 cubic inches
decaliter	(Dl)	0.35 cubic feet
hectoliter	(hl)	3.53 cubic feet
kiloliter		1.31 cubic yards

CAPACITY, DRY

deciliter	(dl)	0.18 pints
liter	(l)	0.908 quarts
decaliter	(Dl)	1.14 pecks
hectoliter	(h)	2.84 bushels

CAPACITY, LIQUID

milliliter		0.27 fluidrams
centiliter		0.338 fluidounces
deciliter		0.21 pints
liter		1.057 quarts
decaliter		2.64 gallons

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