

KAWELA

BARBER'S POINT, (WEST BEACH) 1985;
1987

MAUNALUA BAY
SANDY BEACH

LIBRARY OF
GEORGE H. BALAZS

BALAZS

1985

1987

[at NOV 10 1993]

G. BALAZS

943-1221; 943-1240; 395-6409

KAWELA/TURTLE BAYS - START ON P. 4
 3/26/85 First netting (2 days) page 18 (9 & 10 captures)
 4/8/85 Second netting . . . p. 36 (TERRY'S HOUSE - 0)
 4/15/85 Third netting . . . p. 39 (6 with 1 recap.)
 6/27/85 Fourth netting . . . p. 43 (5 captures)
 7/2/85 FIFTH NETTING . . . p. 78-85 (6 with 2 recap.)
 7th one got out of net after 30 min

10/15 & 10/18 ^{KAWELA} SIGHTINGS - p. 89-93

11/20/85 ^{KAWELA} SIGHTINGS - p. 94-96

BARBER'S PT. / WEST BEACH - START ON P. 61

MAUNALUA Bay, OAHU . . . - p. 103

Sandy Beach, OAHU . . . - p. 108

WEST BEACH, 11 JUNE 1987 p. 109
14 JUNE 1987



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.

TIDE CHARTS - p. 15, 16

NEEDS LIST - p. 117

DON HO - 923-3981 "HAUMEA"
 3954 GAIL ST.
 HONOLULU 96815

TERRY & NORMAN WALKER 293-5837
 P.O. Box 31
 HALEIWA, HI 96712

JIMMY HOFFMAN 638-9468
 59-520 MAKANA Rd.
 HALEIWA, HI 96712

JANE ASHMAN (LAUER) 638-8198
 59-452 MAKANA Rd. (LAW STUDENT)
 HALEIWA, HI 96712

BOB MONCRIEF → ACE 438-2263
 DON ABRAMSON, ACE 438-2264 (Barbers Pt Harbor)
 JOE HALL, HARBOR
 DAVE MITLING, CONTRACT 682-4578; 1391

JIM YARBOROUGH 293-9178
 PUNA, ALUA (trail) TO RED HOUSE,
 Box 904
 KAHUKU, 96731
 A.C.E., BUILDING 230, FORT SHAFTER, HAWAII 96858

Roger Allen Box 269 Hal. 96712 293-2857
 54, Pahipahialua St.
 Kahuku, HI-96731

Thomas JUCIE Bell - BOX H LAIE 96762

LINDA POLLACK (VP Hawaiian Air)
 address & phone? BOX 747
 HALEIWA 96712

I.G. GENTNER - 293-9567 - suicide ~ 1/90

ARONS DIVE - 261-1211

Barry Bloomfield - 637-5689

Mid-Pac. Fic - 836-3313 OAHU; 242-4906 MAUI

Cancelled
#26. 4/18

Budget 800-527-0700

CONF. NO. - 0930210 4/10-4/12

#24. THIRTY 800-331-4200

CONF. NO. - 669290

#29 HUKILAU Oahu 922-1228

Robert's DIVE INSTRUCTOR -

John Pedersen - 637-6841

(The Scuba Shop - Sand Is. Rd.)

Kawela Bay, according to Honolulu Magazine -
3,300 lineal ft; 40 acres - James Lam

Kawela contacts needed:

John Dominis Holt

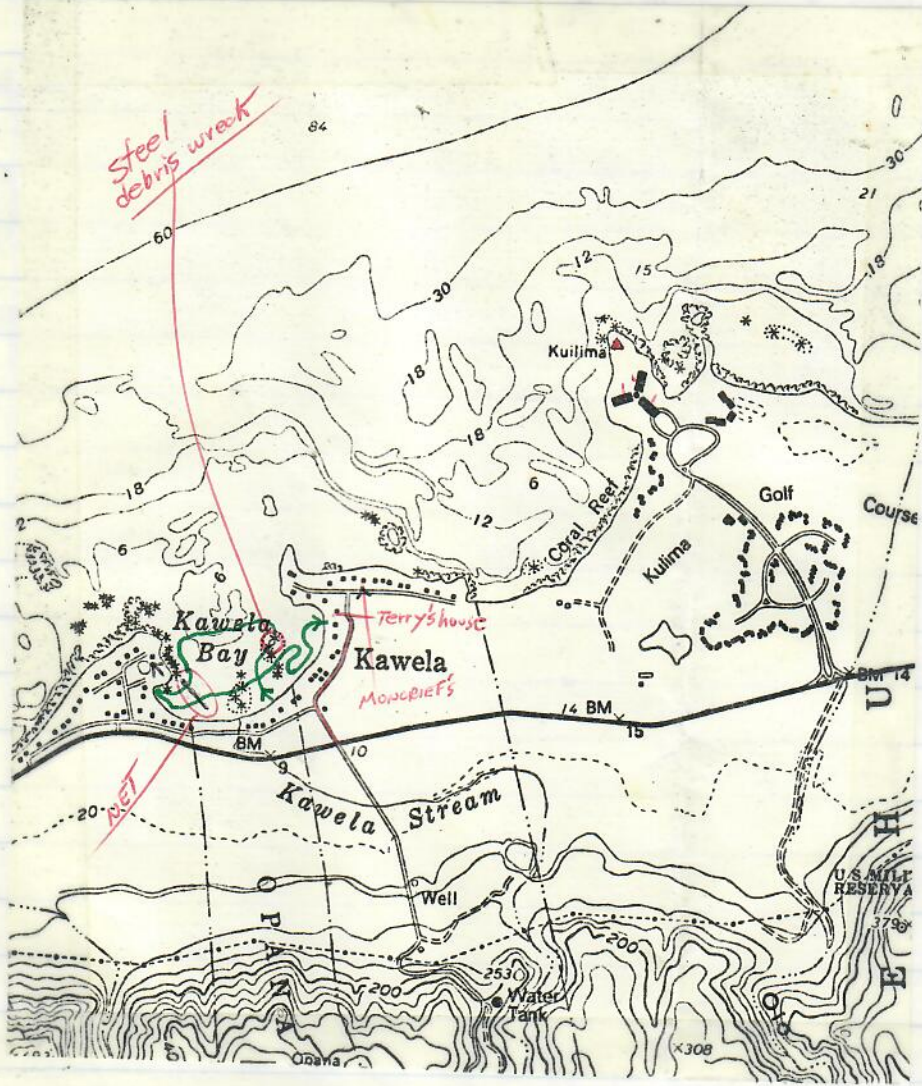
John Clark

Jeanie Kotubetey

2-22-85 Robert and I visited Terry Walker's
 FRIDAY house at Kawela Bay - Met Norman
 and Jimmy Hoffman - Saw site where
 Terry counted "9 heads" this
 morning. Walked beach at Turtle
 Bay U. Jimmy mentioned that
 archaeologist had found a fish
 hook in core sample in his back
 yard. Springs reported in back of
 Bay. East half of Kawela & all of Turtle
 Bay leased monthly (?) from
 Prudential. West end of Kawela is
 private owned.

3-13-85 Robert and I snorkeled Kawela for ~ 2 hours. See
 WED. route marked on 5. Saw beach pile of HYPNERA at PUNALUU ON THE RETURN. NEAR CROUCHING
 ALSO NOTED "MAKAUA" CHANNEL (CUT) NEAR LION-KRANA

3-19-85 Robert & I departed Lab ~ 4 AM
 TUES. to spot at Kawela Bay. I took
 west end position at 5:35 AM, Robert
 in front of Terry's house where he
 saw nothing, undoubtedly due to low
 tide. Counts of my findings listed in
 map on page 6.



— SNORKEL ROUTE 3-13-85
 (BALARS & FORSYTH)

ARONS DIVE - 261-1211

Barry Bloomfield - 637-5689

Mid-PACIFIC - 836-3313 OAHU; 242-4906 MAUI

Cancelled
4/18

#26.

Budget 800-527-0700

CONF. NO. - 0930210 4/10-4/12

#24.

THRIFTY 800-331-4200

CONF. NO. - 669290

#29

HUKILAU Oahu 922-1228

Robert's DIVE INSTRUCTOR -

John Pedersen - 637-6841

(The Scuba Shop - Sand Is. Rd.)

Kawela Bay, according to Honolulu Magazine -
3,300 linear ft; 40 acres - James Lam

Kawela contacts needed:

John Dominis Holt

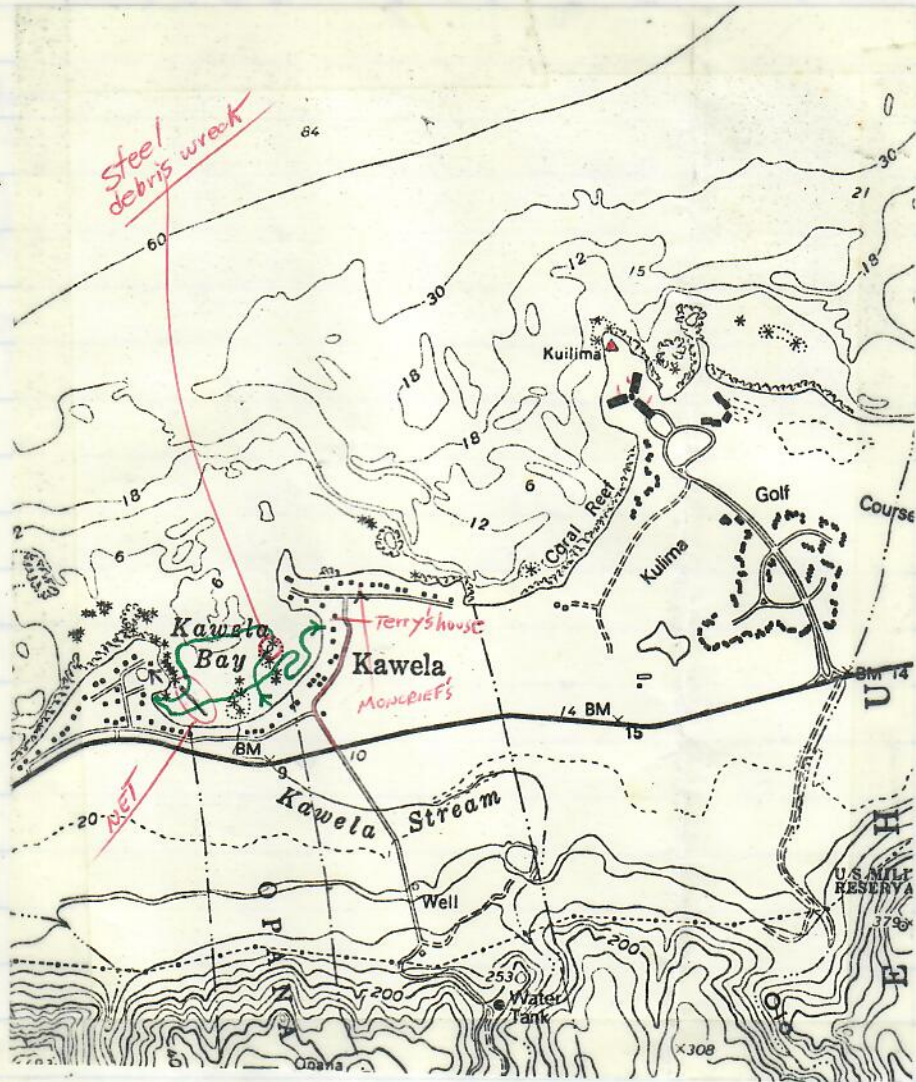
John Clark

Jeanie Kotubetey

2-22-85 Robert and I visited Terry Walker's
 FRIDAY house at Kawela Bay - Met Norman
 and Jimmy Hoffman - Saw site where
 Terry counted "9 heads" this
 morning. Walked beach at Turtle
 Bay U. Jimmy mentioned that
 archaeologist had found a fish
 hook in core sample in his back
 yard. Springs reported in back of
 Bay, East half of Kawela & all of Turtle
 Bay leased (monthly (?) from
 Prudential. West (end of Kawela is
 private owned.

3-13-85 Robert and I snorkeled Kawela for ~ 2 hours. See
 WED. route marked on p. 5. Saw beach pile of *HYPNERA* at PUNALOU ON THE RETURN. NEAR CROUCHING
 ALSO NOTED "MAKAUA" CHANNEL CUT

3-19-85 Robert & I departed lab ~ 4 AM
 TUES. to spot at Kawela Bay. I took
 west end position at 5:35 AM, Robert
 in front of Terry's house where he
 saw nothing, undoubtedly due to low
 tide. Counts of my findings listed in
 map on page 6.



— SWOKEZ ROUTE 3-13-85
 (BALAZS & FORSYTH)

3/19
TUES.

KANEZA - Depart from Lab 4am
Ferry - Bloomfield package?
Access for nets to west end?

5:35 AM West end
~ 5:45 First faint light

6:11 - First head seen
6:35 - BRIGHT ON HORIZON - SUNRISE?
6:52 SUN just above trees.
6:47

6:55 DEPART
7:30 " Kaneza

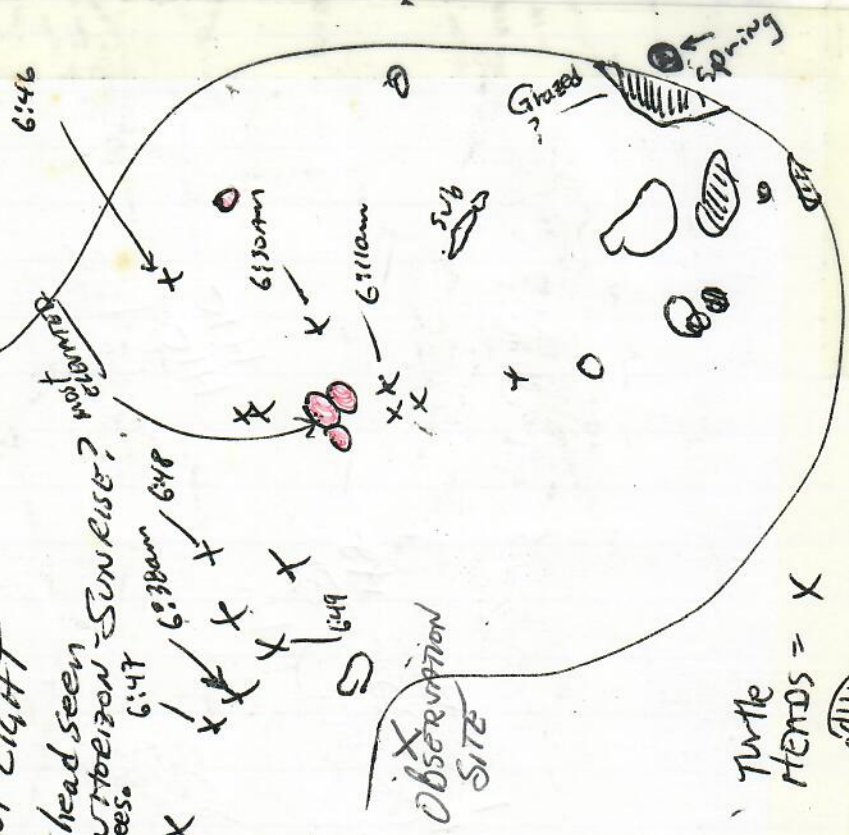
ALGAE SEEN
3/13 SNOOKER
Pterocladia

AMANSIA
ULVA

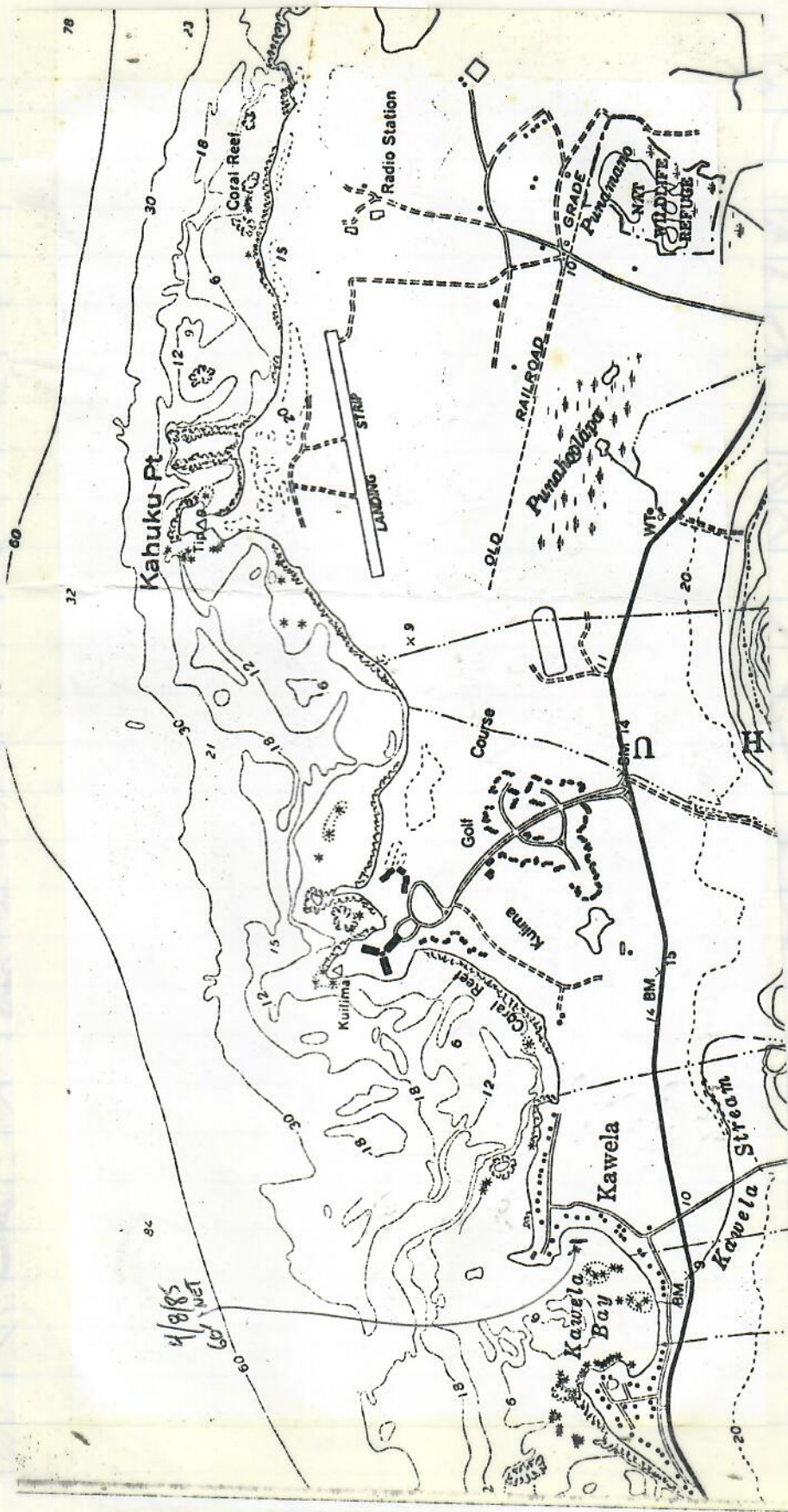
erect Codium
washed up

A very prostrate

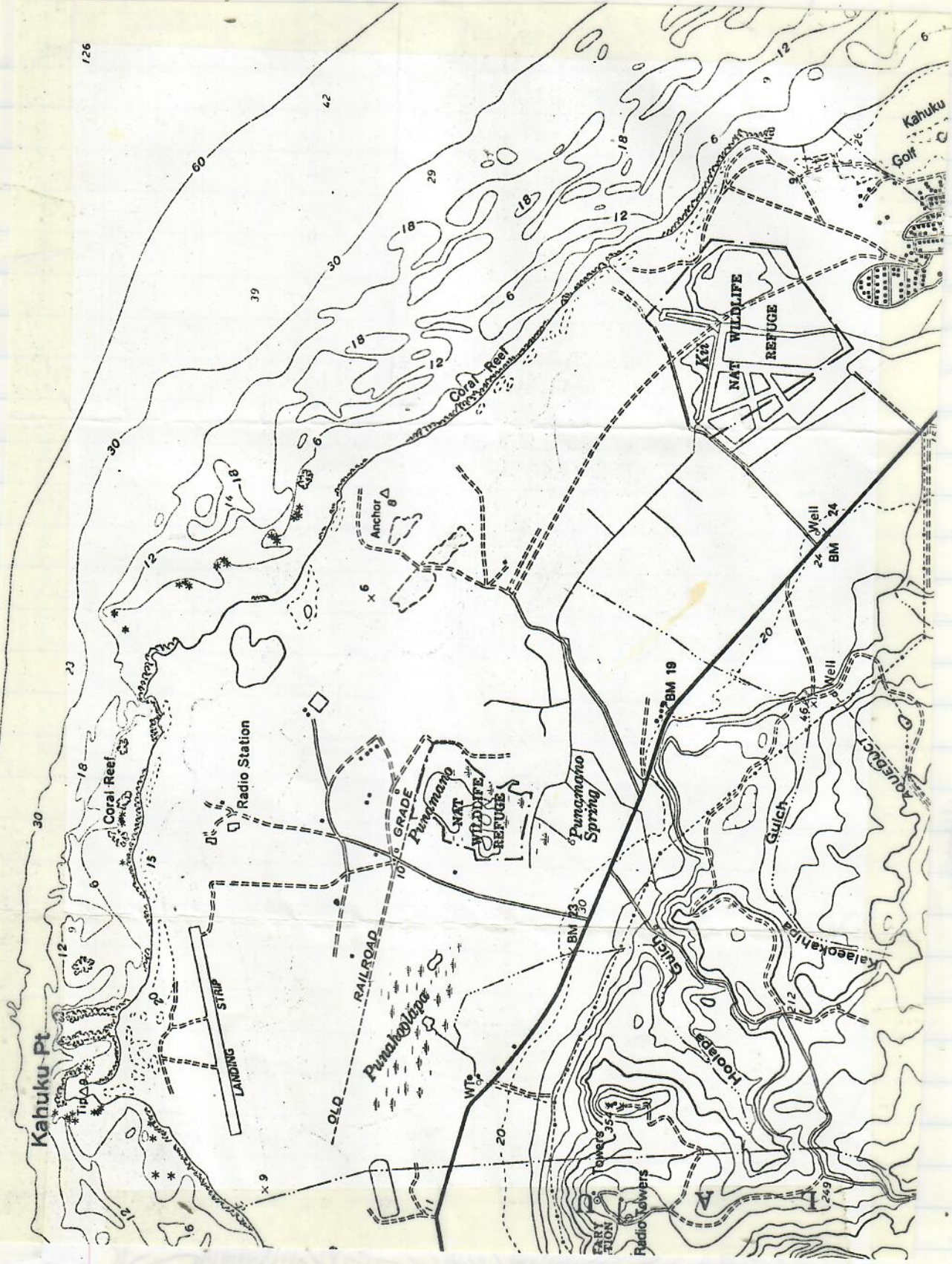
Codium
TORBINARIA

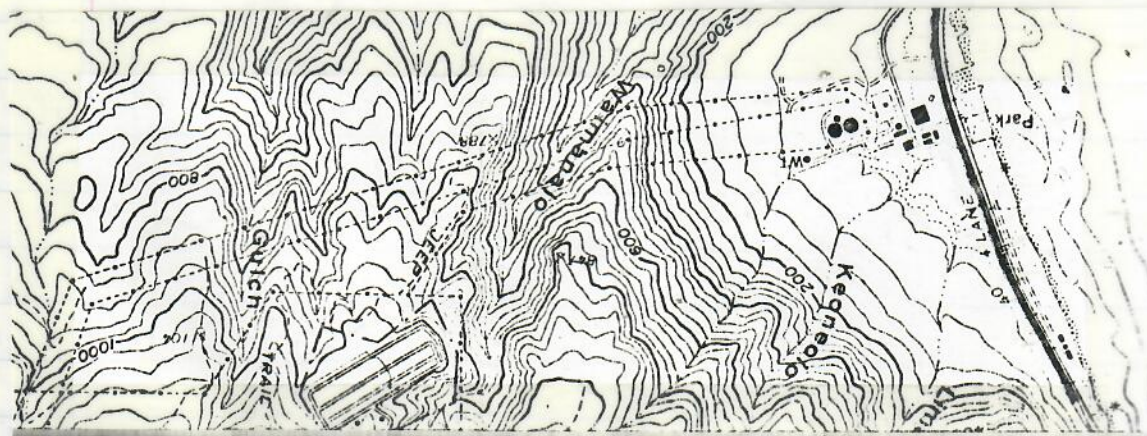


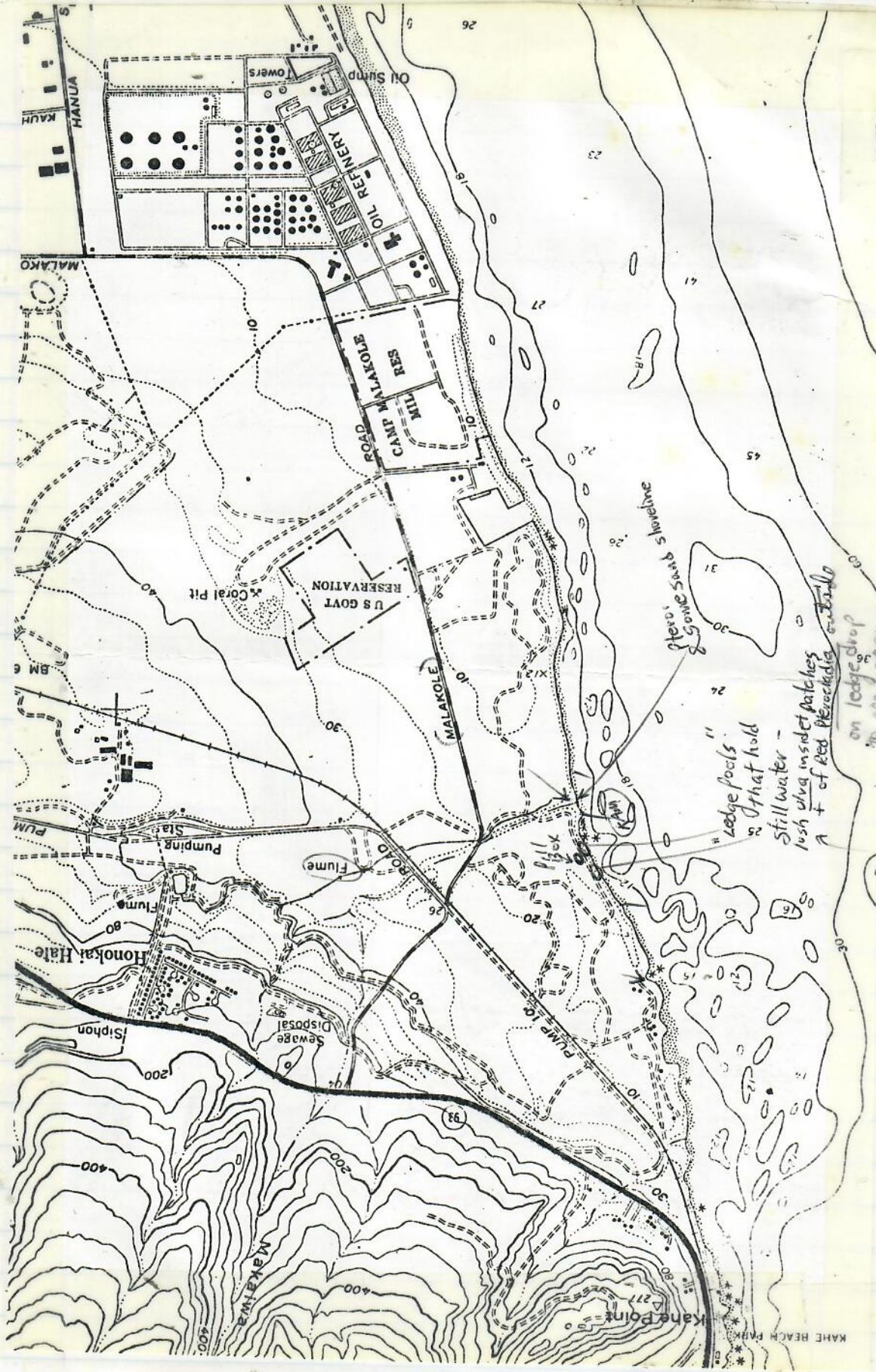
Turtle HENS = X
[hatched circle] = ULVA



126







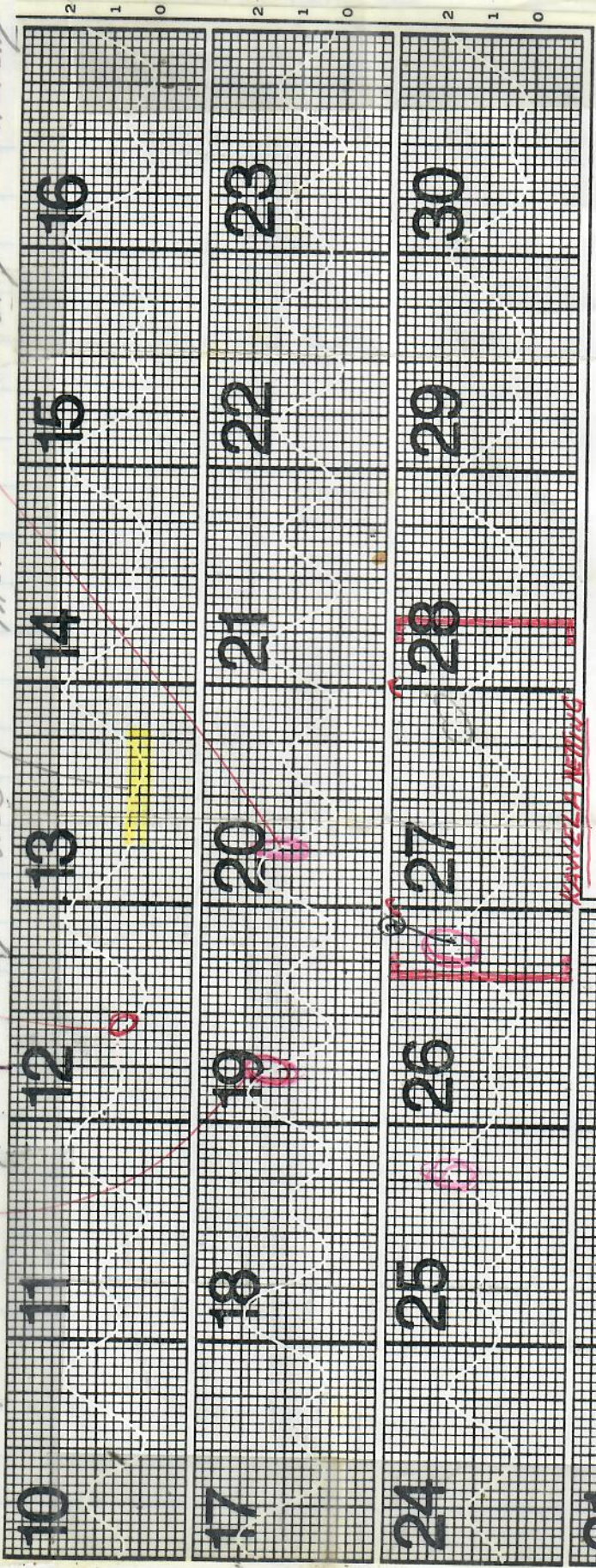
MARCH 85
Shore spotting
with Robert & C
Kawela

Barbees Pt
with Roberta
& N. NAWAHOA

KAWELA
Snorkel Survey
with Robert

Barbees Pt
Shore Spotting - Roberts
Kam, & I

SUNDAY MONDAY TUESDAY WED THUR FRIDAY SATURDAY



For tide time at following places, add or subtract from Honolulu time.

PORTS	Hrs.	Mins.	PORTS	Hrs.	Mins.
HANALET BAY, KAUAI	-1	40	KAUNAKAKAI, MOLOKAI	-0	09
NAWILIWILI BAY, KAUAI	-0	32	KAHULUI, MAUI	-1	48
PORT ALLEN, KAUAI	-0	32	KIHEI, MAALAEA BAY, MAUI	-0	14
HALEIWA, OAHU	-1	36	HILO, HAWAII	-0	59
HANAUMA BAY, OAHU	-0	55	HONUJAPO, HAWAII	-0	24
KANEHOE BAY, OAHU	-1	35	MAHUKONA, HAWAII	-0	24
LAIE, OAHU	-1	48	KEALAKEKUA BAY, HAWAII	-0	16
WAIANAE, OAHU	-0	16			
WAIMANALO, OAHU	-1	15			

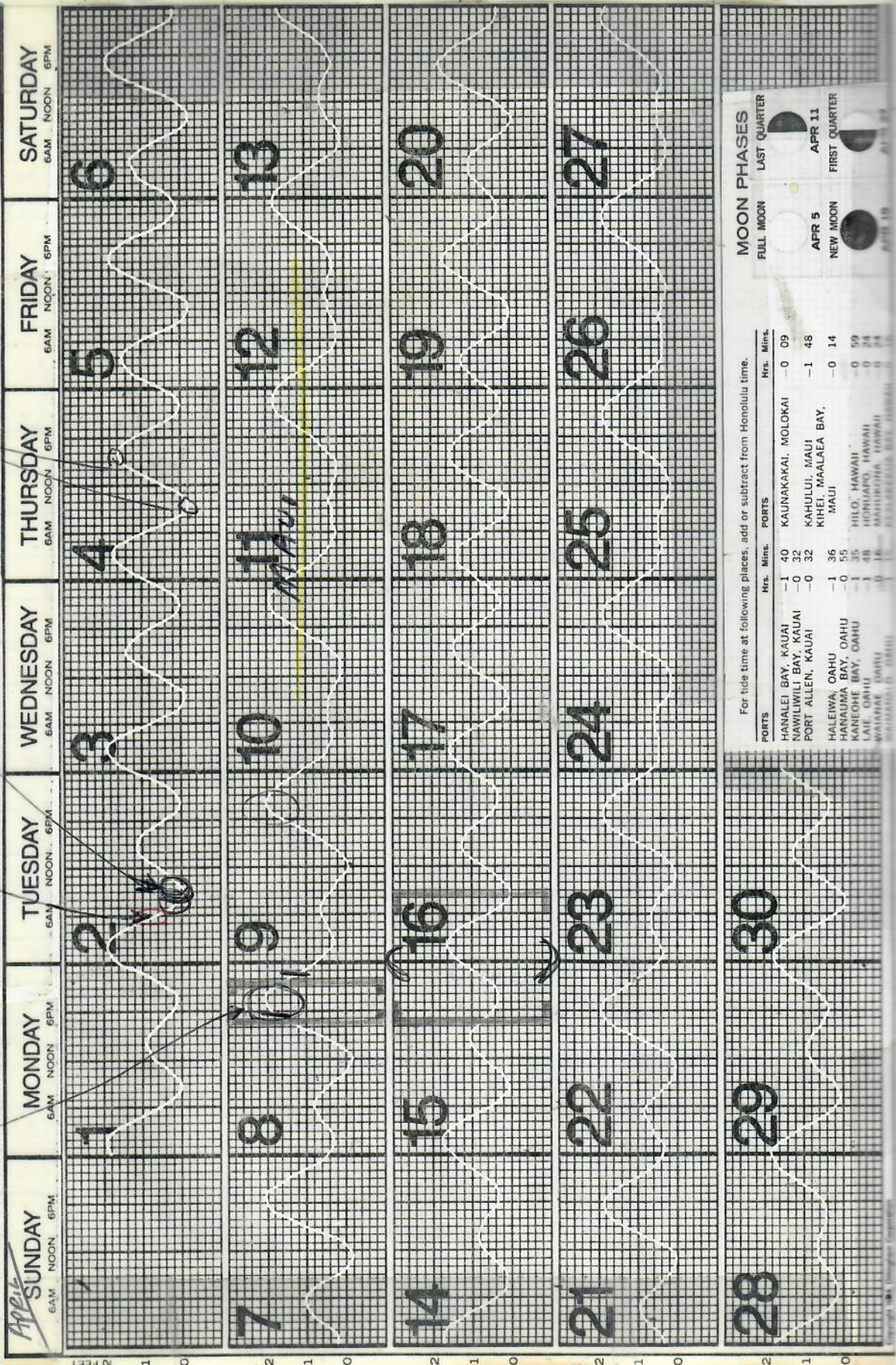
MOON PHASES



1 piece of
mat between
Houses
at Ferry +
Sundays

Mahe's ft.
Sundays
1 hr / 10 min

Kamela &
A.W. B.M.
Sundays



For tide time at following places, add or subtract from Honolulu time.

PORTS	Hrs.	Mins.	PORTS	Hrs.	Mins.
HANALEI BAY, KAUAI	-1	40	KAUNAKAKAI, MOLOKAI	-0	09
HAWAII BAY, KAUAI	-0	32	KAHULUI, MAUI	-1	48
PORT ALLEN, KAUAI	-0	32	KIHEI, MAALAE BAY, MAUI	-0	14
HALEIWA, OAHU	-1	36	HILO, HAWAII	-0	59
HANAJUKA BAY, OAHU	-0	55	HONOLULU, HAWAII	-0	24
KANEOHE BAY, OAHU	-1	35	MAHUKOHA, HAWAII	-0	54
LAIE, OAHU	-1	48	PEARL AND HERMES BAY, HAWAII	-0	14
WAIKANE, OAHU	-0	16			
WAIMANALO, OAHU	-0	15			

MARCH 26, 1985

3/26/85 Van to Kawela Bay to Jim Yasburch's
 TUESDAY house - set 3 sections of net
 from point toward 1st house to the
 right of drainage ditch. Bottom is
Porites, sand, and limestone rock,
 some with fleshy algae growing on it.
 Set at 3:30 pm.

3/26 - 3/27
 TUES - WED.

	Alan and I	
8:30 pm	15 small, 1 medium - 2nd half	
9:30 pm	Robert and I	1 medium
11-1:20	Alan and Robert	
ALAN		Cast net
1:20 -	Alan & Robert	
3:40 Robert		Cast net
3:40 -	Rob & I	
~7am	End of Robert's watch - 1 medium,	
BALAZS	1 largest, second "half"	
	6:05 am 1st net	
	10 am "minnow" - Last net	

10 total

3/27 - 3/28

Wed PM - Thursday AM

BALAZS

11-1:20

ALAN

1:20 - 3:40

ROBERT

3:40 - ~7am

10 - Midnight - (5) turtles - Alan & I

~ 1:20 am Alan & Robert (1) turtle

~ 5:35 am (1) near inside buoy

~ 6:15 am 2-3rd section (2)

8 AM - COMATOSE ONE

"

9

3/28 Departed ~ 12 noon.

Thursday

Resuscitation effort as follows:

②
 electroanesthesia used on all turtles
 when turned from back to belly.
 Also, when walking them back to the
 water for release. Recovery seemed
 instant following "off" switches except for
 a single turtle in which the left
 front flipper did not seem to move
 as well when swimming away.

KAWELA BAY, begin 3/26/85 [3 nets]

TUES PM TO 3/27/85

21

Am NOV 10 1993

① TAGS

8751 RF

LF 8752

S 49.9 x 40.7

0120
caught
3/27

NOTCH 49.5

C - 52.5 x 47.2

PL - 40.1

HEAD - 8.2

TAIL - 7.0

FLIPPER WIDTH (R) 8.6

PC on caudal space, ^{marginals} amphipod - neck skin, red skin algae

② TAGS

RFL - 8753

LFL - 8754

(S) 44.0 x 35.7

0605
caught
3/27

NOTCH 43.8

(C) 46.0 x 41.2

PL 35.5

HEAD 6.9

TAIL 7.5

FLIPPER WIDTH (R) 7.8

Skimbarr. on pelvis ^{and neck}, some green algae on PL

Just beginning to have PC on caudal space

- mouth: clean

22 3-26-85

TUESDAY

NOV 0 1993

- ③ TAG NOS. 8755-LFL 8756-RFL
- (S) 56.4 x 45.2
- Notch 56.1
- (C) ~~61.5~~ 61.5 x 55.2
- PL 46.1
- HEAD 9.0
- TAIL 10.5
- RFL width 9.7

Skin brown on neck & pelvis, PC on carapace
Scummy carapace

- caught 3/26
- 2030 time
- ④ TAG NOS. 8757-LFL 8758-RFL
- (S) 55.9 x 43.2
- NOTCH 55.5
- (C) 59.5 x 53.0
- PL 45.4
- HEAD 8.6
- TAIL 12.5
- RFL width 9.5

Small brown on pelvis, large patches PC on carapace
- mouth = empty

3-26-85
TUESDAY

23

[30] NOV 10 1993

(5) TAG NOS. 8759-RFL 8760-LFL

length 3/26 (S) 59.6 x 48.6

Notch 59.2

2030 time (C) 62.5 x 59.0

PL 48.0

HEAD 9.6

TAIL 14.0

RFL width 10.4

lots of P.C. on carapace * notch in margin (11th)
red algae on neck

skin barn on pelvis, mouth - dirty, empty

8763-RFL

(6) TAG Nos. 8761-LFL 8762-Hind Flipper R.

length 3/26 (S) 64.0 x 52.0

2320 time Notch 63.4

(C) 68.5 x 63.0

PL 50.9

HEAD 9.5

TAIL 14.0

RFL width 10.6

Skin barn. neck + pelvis, scummy carapace, small patches of P.C.

(Recaptured 4/15/85 same site p41 and p.80 7/2/85)

24

3-26-85

8766 - RFL

TUESDAY

NOV 10 1993

8765 - LFL

⑦

TAG NOS.

8764 - R. HIND

(S) 69.0 x 54.5

Notch 68.6

(C) 72.5 x 69.0

PL 57.6

HEAD 10.7

TAIL 16.0

RFL width —

few barn. on pelvis, PC. on carapace each
 scumy carapace, growth posterior of each eye
 possibly exterior outlet of salt gland

8768 - LFL

⑧

TAG NOS

8767 - R. HIND (small) 8769 - RFL

(S) 75.1 x 61.2

Notch 74.7 x 76.0

(C) 81.0 x 68.0

PL 59.8

HEAD 11.4

TAIL 14.5

RFL width 12.7

skin barn. neck & pelvis

② mouth sample obtained

++ SCUM, ++ coralline algae (looks like Puncta fillo)

" mouth very mobile - biting

PAINT

plates

Esplen

Extra small plate PL. XIPIPL

1000 - small turtle in net out 3C (without wings)

3-26-85
TUES 25

[NOV 10 1993]

8772 - RFL

9

TAG NOS.

8770 - LFL

8770 - R. HIND

(S) 66.3 x 52.3 NOTCH = 65.6

(C) 70.0 x 65.5

PL 55.4

HEAD 10.6

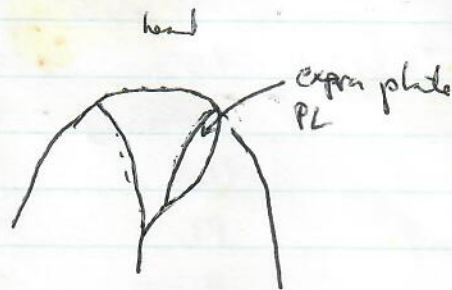
TAIL 16.0

R. FL. WIDTH 11.7

P.C. on margin of PL

P.C. on carapace, scummy carapace

Skid barn on Pelvis



Catched

10

3/27

TAG NOS.

8773 - LFL

8774 -

1000 time

(S) 38.7 x 34.3

NOTCH 38.0

CORJON 40.5 x 40.0

PL 31.1

HEAD 6.4

TAIL 8.5

R. FL. WIDTH 7.0

Green algae on PL (white/cream - NOW)

Green algae on carapace (slimy)

End 1100

GENTNER - talks to min just as it began to rain

Lahaine - turtle spots

^{SOLED TO} BANYAN INN

PAT MURPHY

LINSAY POLLACK

(VP HAWAIIAN AIR)

ROGER ALLEN

(JESSIE, LEAHA)

28

SECOND NIGHT OF NETTING

New Research day

NOV 0 1993

3-27-85 (pm to am)

WED

(11)

TAG NOS	8775	RIGHT HIND	8776	LFL
(S)	67.5	x	52.1	
Notch	67.0			
(C)	71.5	x	65.5	
PL	53.1			
HEAD	10.4			
TAIL	14.0			
RFL width	11.6			

Skin barn. on pelvis, red algae on pelvis & neck

Scummy carapace

- neck scabs
neck

(12)

TAG NOS	8778 - R. Hind	8779	LFL
(S)	54.4	x	44.9
Notch	54.2		
(C)	57.5	x	53.2
PL	44.6		
HEAD	9.2		
TAIL	11.0		
RFL width	10.5		

P.C. on carapace, red algae neck & pelvis

Recaptured 7/3/85 p. 82

Jonathan Stewart
Recovered tunnel
Carcass 11/193

29

cut off tags
8782, 8783
8782 - LFL
8783 - RFL

NOV 20 1993

13

TAG NOS. 8781 - RIGHT HIND

(S) 72.0 x 55.4

Notch 71.5

(C) 75.5 x 69.0

PL 57.0

HEAM 10.7

TAIL 16.5

RFL width 12.3

Skin barn. on neck & pelvis, scummy carapace

P.C. on carapace, 'ding' on Right 2nd Latual

Amphipod on neck skin

14

TAG NOS. 8784 - LFL

8785 - RFL

(S) 53.1 x 44.2

Notch 52.7

(C) 56.0 x 51.5

PL ~~43.8~~ 43.8

HEAM ~~8.2~~ 8.2

TAIL 9.0

RFL width 8.6

Red algae neck & pelvis, P.C. on ventral marginals

Skin barn. on pelvis

* (x) monofilament line extruding out of anus ~ 20", light wt.

SAND

++ P.C. on carapace, scummy

3-27-85

WED

TO 3/28

Thurs



NOV 1993

8787 - LFL

(15)

TAG NOS.

8786 - RIGHT

8788 - RFL

(S) 67.0 x 54.0

Notch 66.2

(C) 71.5 x 66.5

PL 55.0

HEAD 10.3

TAIL 13.0

RFZ width 11.9

Skin barn. neck & pelvis, scumny

+ P.C. on carapace

New growth band along scotes of carapace

8989-8990-8991?

(16)

TAG Nos.

8990 - R. HIND

8991 - LFL

8992 - RFL

(S) 69.7 x 53.5

Notch 69.4

(C) 75.0 x 68.0

PL 55.2

HEAD 10.6

TAIL 15.5

RFZ width 12.2

Skin barn on neck & pelvis amphipods on pelvis

P.C. on carapace

ERROR in field book entry

Subject: Duplicate tags

From: Shawn Murakawa - NOAA Federal <shawn.murakawa@noaa.gov>

Date: 2/16/2017 11:19 AM

To: "T. Todd Jones" <Todd.Jones@noaa.gov>

Aloha Todd,

Here is the information. My memory is a little off as I was remember the Sonic tags as metal tags.

Haleiwa, Anahulu River fieldwork

10/25/16-10/27/16

(16) turtles caught via Cross Net (15) or Hand (1)

(10) turtles with PIT tags + Sonic tag

(3) turtles with Inconel tag + Sonic tag

(2) turtles with Roto blue plastic tag + Sonic tag

(1) turtle with PIT tag

DATA ENTRY 11/10/1999
by Shawn M.

Tag 8995 (LHF)/8996 (RHF) applied new to #11 turtle SCL 72.4cm captured at Haleiwa, Anahulu River on 10/26/16. But these tags (8995 RHF/8996 LFL) were applied new to a turtle SCL 66.3cm at Kawela Bay, Oahu on 3/27/85.

Tag 8997 (LHF) applied new to #12 turtle SCL 64.7cm captured at Haleiwa, Anahulu River on 10/26/16. But this tag (8997 RFL) was applied new to the same turtle as above at Kawela Bay, Oahu on 3/27/85.

Did a little more searching, the tag series 8900 was applied to turtles in Pearl & Hermes in 1985/1986, Kaneohe Bay in 1987, Kiholo in 1988, and Punaluu in 1988.

Hope this makes sense
Shawn

NOAA IRC
NMFS/PIFSC/PSD/Mrs. Shawn Murakawa
Marine Turtle Biology and Assessment Program
1845 WASP Blvd., Building 176
Honolulu, HI 96818
(808) 725-5731
Fax: (808) 725-5567
shawn.murakawa@noaa.gov

2/23/2017 GHB NOTES: 3/26-3/27/1985 10 green turtles captured by tangle net at Kawela Bay, Oahu, NI sampling by GHB, ALAN KAM and Robert Forsythe. Inconel tags 8751-8788 RECORDED BUT THEN paper entries of next turtle at Kawela on 3/27 jump 8900 tags. This was a field recording entry error. The tags "8989-8997" applied to three turtle at Kawela should be 8789-8797.

3-27-85

WED

31

ENTR NOV 10 1993

8993 - LFL

8994 - RFL

(17)

TAG NOS.

8992 - R. RHINO

(S)

74.7 X 56.1

Notch

74.6

(L)

79.8 X 72.2

PL

61.8

HEAD

11.0

TAIL

18.5

RFL width

12.1

Skin barn. on neck & pelvis, PC on carapace
+ red algae on neck
"fell on face"

(18)

TAG NOS.

8995 - RHINO

8996 - LFL

8997 - RFL

(S)

66.3 X 51.7

Notch

66.2

(L)

70.5 X 67

PL

54.2

HEAD

10.1

TAIL

14.0

RFL width

11.4

light ant. skin barn. on pelvis, PC on ventral PL
red algae neck & pelvis



extr. long stroke

Lungs:

There is marked enlargement of the alveolar spaces, associated with greatly increased amounts of smooth muscle in the alveolar walls. The alveolar septa contain numerous embryonated helminthic eggs, most of which are surrounded by multinucleated histiocytes. The pulmonary arteries, especially the large and medium-sized vessels, show extensive intimal thickening by smooth muscle. This almost obliterates the lumens of some vessels.

Liver:

The lobular architecture is fairly well preserved, although there are large numbers of hemosiderin-laden histiocytes through all portions of the lobules. Ova similar to those in the lungs are found within the lobules, but are fewer in number and are associated with a less conspicuous host reaction. A single, fairly large segment of the portal vein has a markedly thickened intima and is surrounded by clusters of round cells.

Small

Intestine:

There is too much autolysis to distinguish much cytologic or even histologic detail in the mucosa. However, the configuration of the villi suggest that there has been marked mucosal damage and inflammation, associated with the accumulation of many round cells in the lamina propria. The mucosa and submucosa contain occasional helminthic ova. They are larger than those in the liver and lungs.

Kidney:

The configuration of the glomeruli, some in the process of subcapsular development, suggest that this animal is not yet mature. Present in both the capsule and the interstitium of the cortex are occasional ova similar to those in the liver and lung. The renal artery is markedly thickened in its intimal aspects and also shows distinct endothelial hyperplasia. There is a single glomerulus that shows cellular infiltration, adhesions between capillary and capsule and basement membrane thickening. This glomerulus is surrounded by a dense cuff of round cells. There is one embryonated ovum within a distal convoluted tubule. This egg is not associated with either cell reaction or tubular damage.

Conclusions:

This animal apparently succumbed to the effect of cardiovascular fluke infection (Digenea: Spirorchidae). The most extensive tissue damage was found in the lungs, which showed extensive interstitial fibrosis and severe pulmonary sclerosis consistent with debilitating right heart failure; and of the small gut where there was extensive mucosal necrosis and ulceration. The latter would have been inconsistent with adequate nutrition. Renal involvement was associated with focal embolic glomerulonephritis. The presence of embryonated eggs in undamaged distal convoluted tubules suggests that some eggs may be passed in the urine.

HISTOLOGY
REF-PAT
GT 32985

Grant N. Stemmermann, M.D.
46-458 Haiku Plantation Drive
Kaneohe, HI 96744

April 14, 1985

32
FRID

3-27/3-28-85 FOUND SAM

33

(19)

KAWELA BAY MORTALITY Dorsal photo (behind A2)

3-29
FRIDAY

POST-MORTEM

S - 55.5 x 44.0

NOTCH - 55.1


C - 59 x 52

PL - 44.3

HEAD - 10.5

TAIL - 10.5

3rd central - small indented spot 0; 3rd lateral

Right - piece of scute  missing - bone showing

Both humeri retained.

EXPOSED trachea & glottis - no swellings or obstructions noted. Opened pectoral muscle, very whitish. ^{VIALS} Fat layer along pectoral and under sarcocele is minimal - samples taken from pectoral and pocket in pectoral tissue samples of heart, liver, lungs, small intestine. VIAL sample of liver for pesticide analysis.

Lungs may have some blood froth.

Blister-like bubbles noted under left anterior side of sarcocele.

Complete intestine excised; stomach(s) firmly full; intestines food major areas of fill - but some areas no food material. Intermittent feeding? Stomach contains 1) ulva thin - strand type 2) pockets of

34 Three jars of stomach contents sent to
Dennis Russell 3-29-85

- TISSUE SAMPLES SENT FOR PATHOLOGY;
4-1-85 Delivered TO DR. Stemmerman
KIAKINI HOSPITAL
- 1) LUNG
 - 2) LIVER (from RIGHT LOBE)
 - 3) KIDNEY
 - 4) INTESTINE (SECTION WITH BLACK, H₂S?,
CONTENTS JUST AFTER STOMACH)

STOMACH
and contents
frozen.

Pterocladia (sample taped on p. 35) 3.) Amanzia
4.) pockets of Turbinaria 5.) small
black "sponges". Main component
was Ulva. Partially digested
round pieces of meat found along
the intestines. Sponges? 10-15 cm
segment of small intestine right after stomach
had black-gray H₂S-smelling substance.
Gut wall looked O.K. though. Along small
intestine, in areas where no food
was present, there a cream-color
thick substance -- custard-like
in consistency. Sections preserved
for future analysis.

4/1
Thu
7:30
10:50
11:20

Low tide

4/4/85 Extensive snorkel at Kawela -
 Thursday starting ~ 7:45 am - West Pt, around
 exposed crescent reef, to limestone
 Island off west adjacent bay to the
 west. Sargassum & Turbellaria

7:30-9:30
am10:50-11:20
LUNCH

11:20-12:20

Common. Amansia in places. Very
 fresh spring, near island, on shoreline.
 Sand and rubble nearshore - no
 shoreline algae, except Ulva on one
 intertidal rock. Another spring spotted
 while walking back, but more salty.
 TIME (ABOVE) ~ 1 hour 45 minutes.

From Point at Roger's house we entered the
 water and snorkeled into Bay, following
 route where Jim often sees turtles.
 Noted more sandy bottom and hard
 substrate with lots of fleshy algae -
 especially stand-type of Ulva present in
 dead turtle. Found a "stink" water
 surface area - from fresh water coming
 up. Surveyed area where net was
 laid, and inside "pocket" of bay. Noted
 2 rocks with freshwater-type molluscs.
 - 1 hr 10 min above, (Spring by THESE rocks?)
 Ate lunch for 30 minutes. Snorkeled across Bay
 very turbid to area in front of Terry's House.

APRIL 8, 1985

4-8-85

MONDAY

Arrive Kawela Bay at Terry Walker house ~ 4pm.

1 piece of net put in water between large rock barren rock, and rock closer to shore with *Pterocladia*. Very turbid water - couldn't see

~~Swamp~~ hand in front me while trying to ~ 6:50pm set anchors. Hard bottom with

very few places to hook anchors. Finished setting net ~ 5:45pm. It

took about 45 minutes of fooling around. This is highest tide

of the month - 2.1 feet - at ~ 6 to 7 pm. NOTED ACANTHOPORA on Bottom and PLASTICS IN NET. setting anchors.

Watched net at 20 minute intervals with spotlight. NO Turtles. Took net out at 11am - rocks starting to show with decreasing tide.

Slept until 5:30am. Walked to

West end of Bay for spotting. Arrived ~ 5:55am. noted that

iron wood trees over here create quite a buffer to lights, etc. Turtles seen by largest rock at 6:06am.

At 6:15pm I moved to limestone point, joined by Jim Yarbrough at 6:45am. Robert took over my original siting place on the beach.

VACATIONING KIDS - PAXTON & TRICIA LAMON

2748 - PRINCETON MILL Court
MARIETTA, GA 30067

Types of algae in net:

most Dictyota acutiloba - twisted blades 1-2mm wide

Dictyota bartayresii

2-5mm wide

ACANTHOPORA

Sargassum echinocarpum

Padina ^{small amount}
formosa 1 large piece

Ulva reticulata (Small amount)

U. fasciata (one piece)

6:15 - 7:15am Robert saw at least 3 turtles inside large rock of west bay pocket.

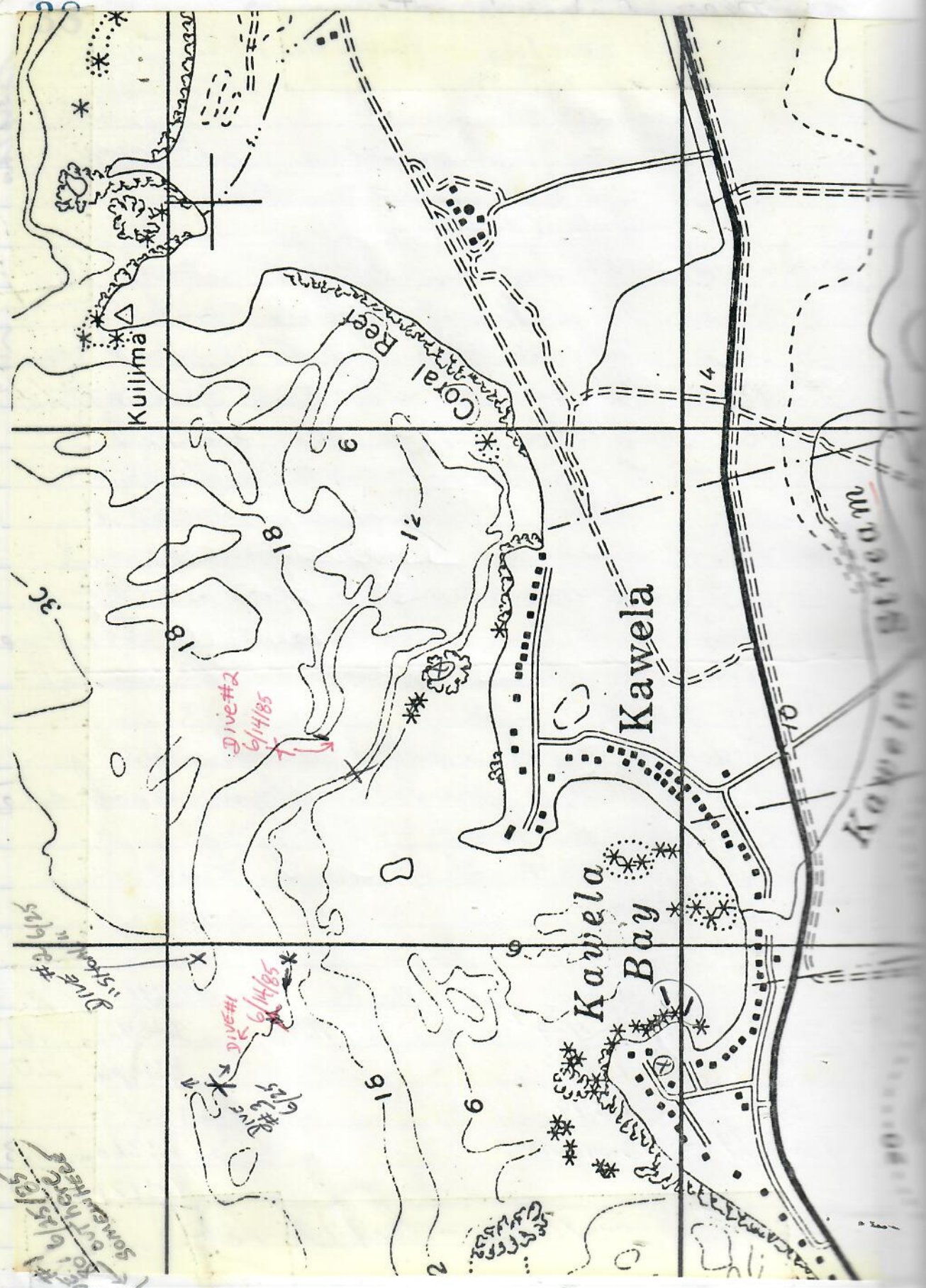
I saw many turtles - one 8-9 at a time spread out to the east of limestone point, some close, some ~ 100 yds out.

Noted surface interval usually 2 sec. or less. After ~ 6:40 numbers seemed to fall off. Sun appeared for a while over ironwood trees, then became covered with clouds. At one point, 3 turtles were seen, along the line of where we laid the net, that looked very small.

When Robert and I walked back, we could see turtles surfacing from beach site near "stream" entrance. Alan saw no turtles in front of Terry's house.

4/9 = Surf N shore 4-7'	TIDES	HIGH	
Sunrise - 6:18		6:34am	0.6
Set 6:49		8:11pm	2.0
Twilight = 22 MINUTES		LOW	
		2:36am	0.3
		12:12pm	0.0

Departed ~ 10am - back to Lab.



TOTAL NET FISHING TIME =

15 APRIL 1985

MONDAY Depart from lab at 2pm for
West end of Kawela Bay.

2 pieces of net set $\sim 60' \times 4'$ deep
bearing toward ^{75' from shore} stream mouth about
the same bearing as last net. Second net
^{to the left}, 2 swivels, $60' \times 5'$ deep,
^{50' out from shore} toward Perry's house.
Sea water 25.5% by rock; 25% by outside net. Freshwater
seen by outside net.

Dick KILBOY - sets $\sim 250' \times 6'$
gill net across sand channel, blocks
off bottom to surface. Sets in the
evening, picked up in the morning. Not
checked at night. Has caught "100's"
of turtles accidentally. Some dead,
all tangled up, because net balloons
out. Turtles get rolled up in it.

I spent ~ 30 minutes snorkeling over area.
Lots of *Acanthopora* seen. *Ulva reticulata*
tangled in it and others.

FOR FINAL Report:

	MAPPING
	COMPARING
	DESCRIBING

CATCHES - 9:15 pm #2 net RF & I (1)
 12 midnight #1 RFD AKHK (1)
 1 AM #2 AK & I (2)
 5 AM #1 RF & I (2)
 6 TOTAL (WITH 1 RECAPTURE)

①
 TAGS
 ↓
 8762
 8761
 8763

6:03 - 1st sighting
 6:13. 1 sighting
 Then "one" periodically beyond NET #1
 TUE 4-16-85
 7:55.2 >
 7:19:10

sent
 ED FARWELL
 P.O. BOX 672
 HALEIWA, HI
 96712

net out ~ 8 AM

②
 879
 879
 880

①

4/15-4/16/85

NOV 2 1993 41

RECAPTURE (originally caught & tagged 3/26/85 same site p. 23)

TAGS
↓

S - 64.1 x 52.0
NOTCH - 63.6

and 7/2/85
↑ p. 80
(no painted noted this date, but not specifically looked for)

8762 RHIND

C -

8761 LFL

8763 RFE

PL - 51.0

HEAD - 9.6

TAIL - 12.5

RFL WIDTH - NT

WEIGHT 78 lbs (35.5 kg)

Blood x

"a little weak in the LFL"

1 pint

②

S - 65.7 x 50.2

8798 RH

NOTCH - 65.1

C - 70.5 ✓ 62.0

8799 RFL

PL - 53.7

8800 LFL

HEAD - 9.8

TAIL 11.0

RFL WIDTH - NT

WEIGHT - 82 lbs (37.3 kg)

BLOOD -

P.C. on canapine, skin bar.

42

4/15-4/16

③

[10 1993]

S - 54.0 x 39.9

8801 RH notch -

8802 RFL C 58.0 x 49.5

RFL - 9.1

8803 LFL PL - 43.1

(close to
EDGE) HEAD 8.5

TAIL 9.5

WEIGHT 46 lbs (20.9 kg)

BLOOD - SAMPLED

P.C. on carapace, dmg on 1st R. Latent

Amphipod on neck, skin barn. on neck + pelvis

④

8804 RFL S - 40.4 x 34.5

notch - 39.6

8805 LFL C - 42.5 x 41.5

RFL 6.7

PL - 32.3

Head 6.7

Tail 6.0

Weight 24 lbs (10.9 kg)

Blood - x

++ of PC, clean PL

2 - pond

4/15-4/16

⑤

NOV 10 1993

8806 RH S- 61.9 x 48.2
notch- 61.6 x 58.5

8807 RFL

C- 65.5

8808 LFL RFL 10.8

PL 48.3

HEAD 9.2

3 PAINT

TAIL 11.5

BLOOD - SAMPLED

WEIGHT - 76 lbs (34.5 kg)

++ PC on carapace, red algae on neck
amphipod on neck

⑥

8809 RH S- 67.6 x 53.3
notch- -

8810 RFL C- 72.5 x 68.6
RFL 11.3

8811 LFL HEAD 10.2
TAIL 13.5

4 Paint

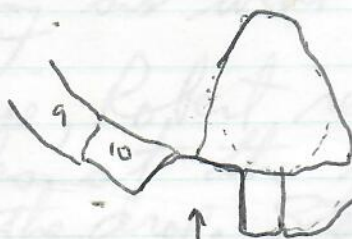
BLOOD SAMPLED

WEIGHT - 91 lbs

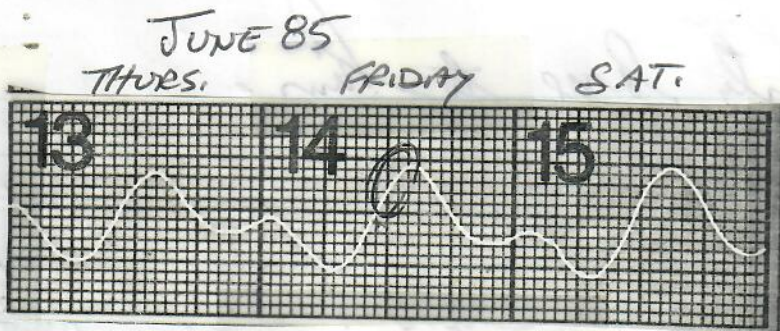
amphipod on neck (41.4 kg)

PL 55.3

++ PC on carapace
red algae on neck



missing
10th, 11th L. merged
+ post-cubid



14 JUNE 85
FRIDAY

ZODIAC DIVE AT KAWELA. Launched from in front of Terry's house at ~ 10:30am with Robert and Alan. Calm seas - perhaps 2' swell. Light wind. Anchored near obvious drop - light green to dark blue line. Used "look-box" to locate. ~~Kam~~ ~~Robert~~ & I in for Dive #1 at 11:30am - hard, relatively smooth bottom at ~ 20'. Edge goes down fairly abruptly - perhaps to 80-90'. Swam west following the drop at ~ 50' level. Few places with sand pockets/traps. Juveniles came out of one, near large "rebar" anchor-cave goes into face with roof exit. Two other juveniles seen - at 40 - 50 mark -- one came from above and down, the other (small) was at 50' swimming and went deeper.

see page 38

50ft Back at the surface, Robert reported 53MIN. seeing 3-5 turtles, at the surface to the west, along the drop. Stayed for long periods, he said. are looked

6-14-85

FRIDAY fairly large to him.

Moved toward Turtle Bay, following
 drop, (channel). Anchored on the
 east side. Saw 4-5 turtles at the
 surface, at various places within
 this channel. Scuba #2 all 3 of
 us. I saw one juvenile - lots of
 caryacare barnacles. - When I swam down
 to check the anchor. Bottom was only
 35-45 ft in channel bottom. Some
 cloudiness in water, unlike dive #1
 that had 50+ visibility. No sheer
 sides here, except for a few places.

SCUBA
#2

40 ft

43 min.

JUNE 1985

MONDAY

TUES. 6am

noon 6pm WED.

THURS 6pm

FRIDAY 6am

SAT

24

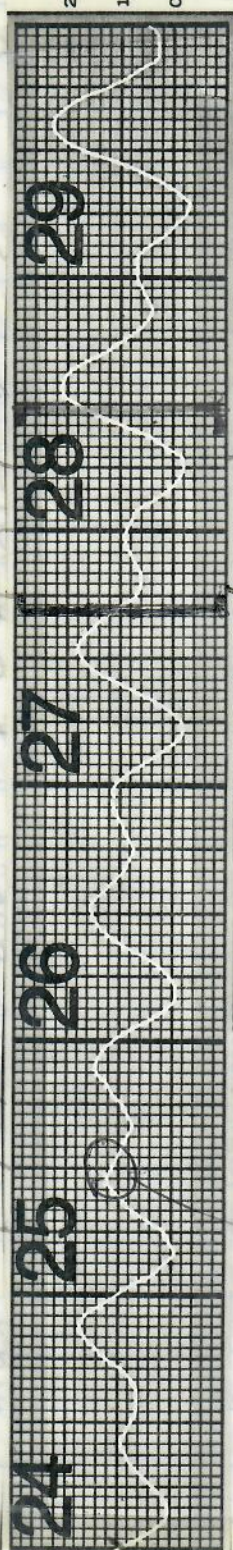
25

26

27

28

29



3 SCUBA
AT KAWELA
FROM FOBIAC

6:15
PM

6:30
AM

Kawela
meeting

Sunset

7:17 pm

FIRST TWILIGHT

NO TIDE 5am

NET FISHING

TIME = ~~18~~ hours

15 minutes

48 25 JUNE 85
TUESDAY

Dive #1 9:48 - 9:53 AM 8 minutes at 80'

Dive 2 50' 36 min

Dive 3 27 min 50'

see
MAP
page 38

Departed from Lab at 6:15 AM to Kaula -
picked up zodiac and drove to Kaula
Bay (Terry's house), stopping at McDonald's in
Wahiwa for a snack. Rain squalls
along sunset beach - puddles on the road.
Light wind, but an easterly swell
evident once outside Kaula. Motored out
off the ^(west) left side of the bay looking for the
drop off. Cloud cover and early morning
prevented the bright sun being out, which is
essential for color contrasts to
locate deep vs shallow areas. We must
have motored past the 60' outer drop.
Difficult to tell depth using look-box.

* PORTABLE DEPTH SOUNDER ABSOLUTELY
ESSENTIAL FOR THIS KIND OF WORK.

DIVE #1 Anchored in 80' of water and the 3 of
us went down for 8 minutes. Hard
bottom with little relief seen. Limited
visibility - perhaps 30'. Surfaced and
motored in, since it was ^{now} apparent we were
well beyond the area of June 14th dives.
(cont. p 50)

NOV 10 1993

49

45' capture outside and to the (right) east of Kawela - see map p. 38 - during dive # 2

S - 42.5 x 33.1
Notch - 42.3

C - 44.5 x 39.8

8489LFL PL - 33.5

Head - 6.6

8490RFL

Tail - 9.5

RFF - 7.4

#8489 Kawela 6-25

Amansia glomerata	50%
Codium edule	25%
Pterocladia sp.	5%
Ceramium sp.	Trace
Ralfsia occidentalis	Trace

no blood! Electro helps? not used here -
May have obtained small amount of spiral fluid. though

Stomach sample using Perry's hose. -

Small particles obtained - definitely Codium pieces; possible Amansia + yellowish thick stalk filaments which are undecounted.

A very few skin barns; no red skin algae apparent, but slight green on carapace and plastron, and a few spots of pink coralline on carapace.

25 JUNE 85

TUES.

Motorered toward Kahuku Pt & Hotel just surveying the area - hoping for sun to distinguish depths. Tried to look for "coral heads" just off breakers off east-side coral point of Kawela (tops of heads 15'?), pointed out from shore prior to our dive by Norman (Terry's husband). Mild surf was rolling in here and breaking, so a close inspection could not be made. Seems unlikely to me that turtles could have resting areas here.

When sun came out, we spotted a light green shoal (actually a point) ^{"PINNACLE"} surrounded by dark (deep) water.

D#2

Anchored here - sand areas on the top - dropped down to 50' level on shoreside. Saw one red juvenile.

Moving along Robt. spotted a small juvenile under ledge perched on. Found bottom at 45'. I caught it - data on previous page.

No other turtles seen. Syringium on top

Motorered around and found the site we dove on June 14th, anchored and again the 3 of us dropped

D#3

to 50' level of ledge (bottom 80). This is deep channel - ledge across and to the ~~west~~ west of "shoal" D#2

25 JUNE 85
TUES.

51

Almost no sand pockets seen as we moved along seaward and to west. Some shear rock cliffs. Lots of Asparagopsis noted. Surge, from east swell. No turtles seen on this dive. However, just before entering water we saw a median at the surface - perhaps out over deeper water than where we were diving (out over "channel").

Returned to Jerry's House - worked up turtle - returned to Kewalo, and lab at 5:15 pm.

27 June 85
Thurs.

Departed from Lab in van 87 with Robert and Alan for kawela netting. Set 2 shallow pieces joined together, same as first set here, pointing at "river" mouth. In at 6:15 pm. I swam around reviewing algae. Seawater 27°C . Cloudy water. At near shore end the mesh was barely visible, even when right up to it. Glassy inside bay, but still some swell rolling in around the point across the wet. Heavy clouds all over. Mosquitos had taken wind stops. Jim reports that Lindsay's pond is nearly pure fresh at certain times of the year. Rubble covered bottom with sand/silt settled in thin layers over and around it. Rubble looks like dead pieces of fringes coral. Also there are many places of "hard pan" bottom. Algae been growing on the bottom was mostly Acanthopora with snagged pieces of Ulva recticulata. Also found an encrusted patch of Sargassum. Lots of Dictyota seen drifting around. On the big coral rock, prominent in front of us I saw lush Avicennia, Acanthopora and some Herocladia. Others present,

Live patches of coral (heads) also commonly seen encrusting collected.

27 JUNE 85

THURS. but I didn't recognize ID.
 Another section of net (full depth) was
 not put out because in swimming
 around I could not find an area
 deep enough, or free of coral heads,
 where the net could be laid.

LUCITE PAINTED
 NUMBERS ON CARAPACE.

#1. 10:30 pm - first capture - small
 just outside join
 Another hit while getting this one out - came out the

2. 12:17 am 26.7°C deep body capture
 1st net

3. 1:55 am 26.2°C 3rd capture

4. 4:30 am 25.6°C 4th capture ^{1/2 TO} rock
 AMBIENT - 25.0°C

5. 5:00 am far end 5th capture
 6:30 taken out 24.8°C

glass thermometer 24°C ambient up close

[22.8°C by telethermometer]

cut away
 Spring noted in sand beach when it
 became light enough. A "minus" tide
 (see p. 47). Water by net became
 much colder as the tide-level decreased
 because the freshwater flow increased.
 The moon was $\frac{1}{2}$ the night (first half),
 then it set. However, moonlight was
 often washed by heavy cloud cover.

THURSDAY
27 JUNE 85.

[NOV 1993]

There was very little wind during the night, but several short rain showers occurred. Ocean surface in bay was very calm, however, ^{small} swells still wrapped in from the adjacent coral-ledge point.

Nets removed ~ 6:30am so we could work up turtles and release them without getting retangled. Paul (AMFS enforcement), Terry & ^{+ neighbor} Norman, Bell, Roger Allen & Jessie, and others came by.

DATA ON TURTLES ARE AS FOLLOWS:
PHOTOS OF BLOOD SAMPLING, BEACH ROCK POINT, ROBT. COOKING DINNER.

Leucite #1

10:30 pm capture

8493 RFL S-40.8 x 34.0
(notch 40.4)

8494 LFL C-43.9 x 39.5

never obtained by me before from a turtle

PL-33.0

#8493 Kawela 6-28-1985

HEAD - 6.9

Laurencia mariannensis Yamada*
Jania capillacea

99%
Trace
Trace
Trace
Trace

TAIL - 7.5

Acanthophora spicifera

RFF 7.9

Polysiphonia howei

Oscillatoria sp.

- Red froth from mouth
- Blood sample taken shortly after capture (for S. Buddon study)
- Stomach sample (voided by Jim's hose)
- A few skin barcodes on neck & pelvis.

ANESTHESIZER NOT USED, but used on other 4.

56 June 27-28, 85

[aw NOV 10 1993]
Leucite #2

12:17am capture

8502 RHIND S-67.7 x 54.7
notch- 67.3

8503 RFL C-73.0 x 66.5

8504 LFL PL-56.2

HEAD-10.0

TAIL-12.5

RFF-10.4

(like all others -
at the 6th SCAL)

#8502 Kawela 6-28-1985

Acanthophora spicifera - 100%

- 2 blood samples taken - one for Broddon, one for sex determination.
- Bone wedge taken, 10th MARGINAL R
- Skin barns on neck & pelvis
- Stomach sample obtained
- Red algae on pelvis & neck
- White "scum" pericarpate on carapace - very obvious when dry.
- red froth from mouth.

Leucite #3

1:55 am capture

57

8499 RHIND

S - 60.9 x 46.6

notch - 60.6

8501LFL

C - 65.0 x 56.5

8500RFL

PL - 47.9

HEAD - 9.0

TAIL - 14.0

RFF - 10.0

- Blood sample obtained - one for Bradson, one for sex determination
- Bone wedge taken (10th Right?)
- Red froth mouth
- skin barns on pelvis
- pink coralline on carapace
- white "scum" on carapace - like #2

#8499 Kawela 6-28-1985

Acanthophora spicifera	99%
Ceramium sp.	Trace
Laurencia sp.	Trace
Dictyota acuteloba	Trace
Casurina (ironwood tree)	Trace

ASA25

Photos taken of this turtle being blood sampled.

58

[30 NOV 280 1993]

27-28 JUNE 85

THURSDAY

4:30am capture

LEUCITE #4

8497 LFL

S-47.6 x 37.9

notch-47.4

8498 RFL

C-50.2 x 45.6

PL-37.8

HEAD-7.8

TAIL-10.0

RFF-8.0

- Pink Coralline - large ^{Pink} patch on plastron, small patches on carapace
electro-Ani. used w/out tags.

- Blood sample obtained for Braddon.

- Red froth from mouth

- Small number of skin barns on neck & p.

- Green ^{light layer of} alga on plastron

- Stomach sample obtained.

(Like all others, electro. was not used while obtaining stomach sample).

#8497 Kawela 6-28-1985

Acanthophora spicifera

Laurencia nidifica

Terrestrial plant material

99%

1%

Trace



NOV 10 1993

LEUCITE #5 ~ 5am capture.

Alan removed it himself at ~ 6:15am -

8495 RFL Said bottom of net was badly caught; turtle fortunately tangled in top portion, so could breathe.

8496 Left S- 44.9 x 36.8
webbing of 3-4 Scale notch- 44.7

C- 47.0 x 42.5

99%
18
Trace

#8495 Kawela 6-28-

Acanthophora spicifera
Codium edule
Oscillatoria sp.

PL- 35.9

HEAD- 7.8

TAIL- 8.0

RFF- 8.0

#8495 6-28-85 Kawela Skin

Sphacelaria tribuloides

Polysiphonia tsudana

One small clawed shrimp larva

99%

1%

(distorted by scale count?)

✓ Electro. used, w/out tags;

✓ pink coralline on carapace

✓ red froth from mouth; Stomach sample obtained.

✓ Blood sample obtained for Brodson (patch saved)

✓ Red, & green, algae on neck & head (for ID)

✓ a few skin burns on neck and pelvis.

✓ Pink coralline on carapace & plastron

✓ Natural reduction in size of flap-skin fold for both FL's. 3, instead of 4, U type scales on each, trailing flippers

UUU

↑ scale missing here.

(KAWELA BAY WORK CONTINUED ON P. 77)

60

KAWELA BAY

6/27-6/28/85

SUMMARY OF BLOOD SAMPLES OBTAINED

<u>TAG NO.</u>	<u>SL</u>	<u>SERUM FOR SEX</u>	<u>WHOLE FROZEN FOR BRADON</u>
8493, 8494	40.8 cm	—	1
8502, 03, 04	67.7 cm	1 Number of vials =	1
8499, ⁸⁵⁰¹ 8502	60.9 cm	1 Number of vials =	1
8497, 98	47.6 cm	—	1
8495, 96	44.9 cm	—	1

3-12-85 Initial visit to Barber's Pt
 TUESDAY deep draft, and adjacent West
 Beach with John Naughton &
 Robert Naughton

see
 Brock
 report

Visited both sides of harbor
 entrance. Kaha Pt. side has
 Ulva at entrance mixed with
 Enteromorpha giving a bright green
 appearance along intertidal ledge.
 We walked a short distance
 along the coast to sand beach
 located behind beach rock. Squid net
 swarl found here with squid jig
 in it (saved). Low tide present.
 Saw Sargassum and saw
 Plexocladia at subtidal reef projections.
 Same was bleached, and did not
 appear normal burgandy-red and
 lush, as usually seen.
 2 Turtles seen offshore.

John mentioned "MAKAUA", Kaneohe
 side of Crouching Lion restaurant,
 a prominent channel-cut through the
 reef. Seen with boat anchored in it
 3/13 when passing by.

- DIVE ITEMS NEEDED FOR DAYTIME DIVE -

MASK

Snorkel w/connector

^{FINS} ScubaPro (non-silicon buckels)

Weightbelt (4-5 lbs) with knife

Hood with tuck-in flap

Wet-suit jacket

Booties or tabs

DIVE PANTS

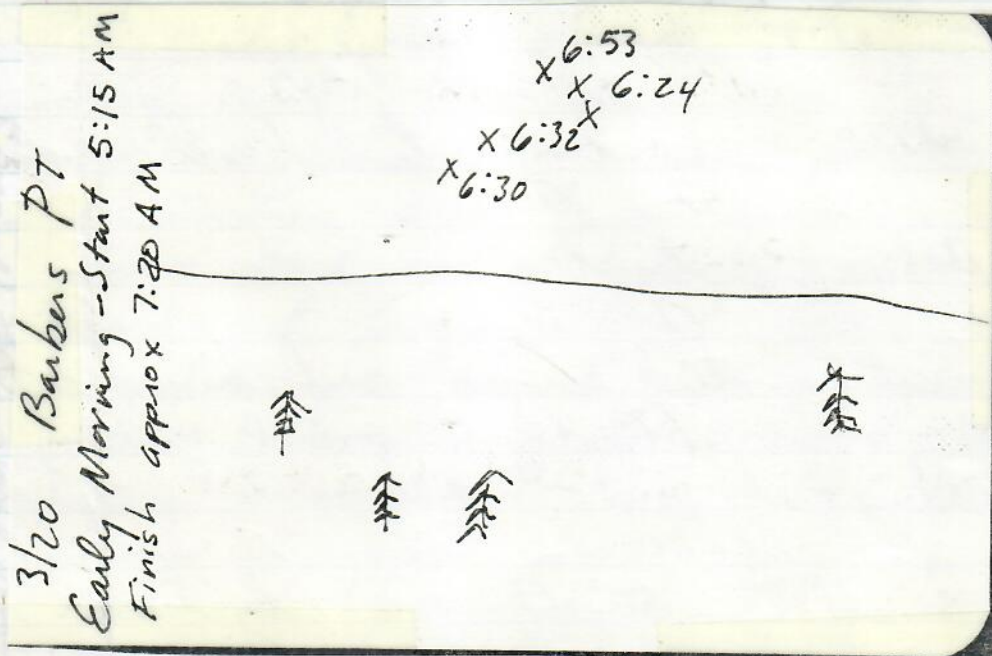
MASK DEFOGGER

Spear w/ 3-PRONG

KNIT BAG for Algae, etc., collection

3-20-85 Turtle spotting at Barbers Pt deep
 Wednesday draft harbor (Birmingham Tug harbor) - plus
 hike to Paradise Cove (Kahe Point)
 (Run-in with "CLAYTON")

Roberts map



West Beach Properties - 848-2217

Paradise Cove - 682-2871

Campbell Estate - 563-1961

64

BARBER'S Pt

SPOTTING

(cont.)

wed
3-20-85

A. Kern notes

S

X^M

- 0654 - Large turtle - middle of harbor entrance, ↑↓ diving
- 0658 Medium T, between boulders & buoy
- 0700 Small T, by point surge zone
- 0715 Medium T, by buoy - took breath - swimming
- 0726 Medium T, by buoy
- 0810 Small T, dark carapace - mid-channel entrance.
(floating for several seconds)
- 0842 medium T by point - silty
- 0903 Small T, 50' off shore, by trees.