

1985  
MAUI

BALAZS

1985-MAUI  
1992-1996

BOOK II

808-395-6409

BALAZS

808-395-6409

1-10 MAY 1985 MAUI (CONTINUED) . . . . . p. 3-21

17-21 JUNE 1985 MAUI . . . . . p. 23-  
(NETTING AT POWER PLANT)

18 DECEMBER 85 . . . . . p. 60-  
(1/2-DAY VISIT TO PICK-UP/EXAMINE  
OLIVE RIDLEY EGGS INCUBATED BY SKIP HAU)

15-SEPT. 92 GHB/RM . . . . . p. 65-69  
17 WAILEA (BOBLINSKI); CAHAINA DIVERS ~~BEACH ROCK~~  
HONOKOWAI (URSULA BONNETT); ~~HYATT~~ 3 NEW

~~JANUARY 20, 93 MAUI MDP OLOWA/CU/HYATT - R747-758~~

11-12 MARCH 93 VILECMMC LECTURE P. 70-73  
1 SCUBA MCGREGOR Pt.  
(OBSERVATION ONLY)

McGREGOR Pt. GRAND HYATT WAILEA w/ RESIGHTING  
12 MAY 93 MAUI MDP I CAPTURE ONLY +  
Data = P. 81 P. 72-P. 73 TAGS USED RB55-  
WAHEE MAP. P. 55



COMPOSITION BOOK • 9 3/4 IN. x 7 1/2 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.

26-30 JULY 93 - HONOKOWAI, MAUI  
P. 101-  
- MAKENA, FWS CAVES.  
- BLACK ROCK  
- HYATT  
TAGS USED =  
K3 - K25

Skippy HAN  
 DAR - Box 1015  
 WAILUKU, MAUI 96793

A. Boteloh - 244-9882 (877 5027 Walter CAMIANO (supervisor)  
 (knows good forage spots for turtles  
 at Waiehe and Maalea)  
 MIKOU LOOP -  
 323 MIKOU PLACE - BY BASEBALL STADIUM

MAUI ELECTRIC Co. (main switch board): 871-8461

~~16 AUGUST 1994 HONOHOWAI, MAUI~~  
~~Scuba & Dives p. 740 9:20-10:20am (2) 120-220pm OBSERVATIONS ONLY~~  
~~60min 40ft out, 60min 40ft~~  
~~Depart ACOHA ISLAND AIR 5:25pm (3 hours out)~~  
 DIVE #1 EST. 5 Turtles seen, 1 w/ Tumors  
 " # EST 8 Turtles seen - AT least 4 w/ tumors -  
 (1 = score #3; 1 - #2 (high))

30 AUGUST 1995 Maui Survey  
 p. 59 GHB only  
 Kihui haulbail nesting area; Kahalui Power Plant

6 Sept. 1996 Haulbail meeting  
 Friday and site inspection  
 of N. Kihui Road - page 210

- Alan's hours daily for this trip.
- Turtle Sign inside powerplant fence
- ✓ - Touch like DACOR
- ✓ - KNIT BAGS
- ✓ - KIDGLOVES
- Dive Flag - Blue & white
- ✓ - Lock & Chain
- Counsel with compass built into in (TECHNA Brand?)
- ✓ - REC catalog
- Single cell (TECHNA FOR BC. Pocket
- ( - Nikonos V
- slate board for boat
- IKELITE FOR UW PHOTOS <sup>+ Nikonos</sup> SPECIAL TRIP
- SIGMA/NOAA emblem indicating research project.
- Prohibit nets in Hobron Area
- CALL BAZAAN!
- Small battery driven water pump. Aquarium store?

Coral Anchor (rebar anchor)

- Check AND COMPARE WATER DISCHARGE INTO HONOLULU HARBOR
- Spray "Pam" for stomach tube & pliers
  - Rebar coral anchor needed for any future netting at this site. (call Bob Ferguson)
  - Tables, or some shoes, that really grip these slippery rocks off powerplant.

7 MAY 1985

TUESDAY UP 5:30am, Breakfast at Tasty Crust. #4, 25

Flash flood warnings up - strong wind warning with rain showers. Raining in Kahului - dark clouds toward Paia. Drove to first bay past <sup>HOOKIPPA</sup> Hookipapa Beach - slight road - looked a bay below - steep cliffs - lots of Pterocladia on the bordering boulders. Path down reported to be at the right. Called Nemos and learned that heavy rain had occurred at Hanalei overnight. Reported that stream runoff here really "clouds" the nearshore waters. Shopped at Sears for hacksaw blades.

NET FISHING TIME:

5 HOURS

TO Powerplant at 2:45pm. Met Mr. Helm. Set net at 4pm - 30' piece ~10' deep. Set perpendicular to shore just to the left of Block #2. Set ~20' from boulders - inside end tied to concrete debris. Net starts just outside large PIPE on bottom. Smooth rocks and some iron debris. Net extends to the bottom. Temperatures recorded - 30.5° directly from Block #2. 30.0 - 30.5° C in pool area - top and bottom.

4

7 MAY 85

TUESDAY

Saw many Codium chunks drifting back and forth on the bottom. Also some Acanthopora. Smooth rocks where pool is too thin, and some other minor debris. Acanthopora growing on the bottom near where net is set.

Talked to Frank Gomez. Used to dive on turtles years ago. <sup>AT OLOWALU</sup> Never caught with a tag. Never used powerhead. Always used did. He's seen turtles feeding on pieces of floating at the surface. Apparently not Codium. Frank used to be a (black coal) diver, "outside" Labaja harbor toward Savai - 180' "forest". All there used to be black coal on the drop at Mobiki. Browns best where current is strong.

Start new roll of film - 2<sup>nd</sup> full one of this trip - photos of Alan and Robert end of roll 1 - Photos of net in the water.

Net all set at 4 pm. DOCAEE agent Charles Villalon came by - former Maui Police officer.

A few 7:10 pm the "street light" came on. Shortly thereafter Robert saw 2 turtle heads <sup>SEEN FROM OFFICE</sup> to the left, 1/2 way to point. <sup>MORE A FEW MINUTE LATER</sup> ~~seen~~ until turtle hit at 7:39 pm.

SKIPPY HAN =

877-7511 home  
244-4352 office

5  
Coming back from  
Toluca  
Saw 40  
turtles within  
1/2 mile shore.

Robert Merrill  
Charlie Villalon - DOCAE

7 MAY 85  
TUESDAY

7270-  
Sample No. 7272 Kahului

APPROX. SIZE OF POOL

Codium edule  
Antithamnion sp.  
Climacosphenia  
Synedra sp.

99%  
Trace  
Trace  
Trace

Hit net at 7:39 pm - moving right to left.  
While Alan and I were out getting Brittle out of net, Robert  
saw 2 heads surface to the right, just outside "pool"

TAGS → RF- 7272      LF- 7271      RHF- 7270  
SC- 78.3 x 59.3      N- 76.0 (PC's and anterior marginals  
heavily serrated)  
PL- 64.2      Tail- 25.0      H- 10.7  
RFF- 13.6      CC- 82.5 x 77.5

A Juvenile Male in APPEARANCE.

slight Red Algae, <sup>MANY</sup> Skin Barnacles neck & Pelvis

Green on Plastron, lots of skin barnacles

STEP. <sup>AND EPAS</sup> Barnacles, pink coralline on carapace  
ON FRONT FLIPPERS.

Jagged PC's

2 9th PC on left saw <sup>BONE</sup> wedge taken <sup>for Heavy</sup> METALS  
HOLE IN <sup>INDENTATION</sup> 3rd Central approx 4 1/2 cm diameter

Small white coral patches - carapace.

Looks very thick bodied.

#7-  
10

photos on the rocks, and returning turtle to  
the ocean.

Tube into stomach, but only green particles  
came out. Needed garden hose for pressure  
flushing source. Looks like Codium?

sent  
to  
Dennis  
Russell

6

7 MAY 85

TUESDAY

J.I.T. Box Lunch

# 3.00

Ginger King Dinner

# 4.30

at ~ 11 pm

Purchased at Sears (Chack saw blades @ #2 plastic box

George YANAGI, night foreman, came down to watch us several times. Earlier he told me he had worked there 30 years. Started a few years (2?) after the plant opened. Discharges, rocks, etc. the same as when first opened. Construction of breakwater to the left done ~ 10 years ago. Until a year or 2 ago, he claims he never saw turtles in these numbers.

Just a few a one time ever seen before. Greater numbers a 3 am (?). Sometimes less discharge flow after 2 AM when they "shut are down".

Some years ago, before it was illegal to take turtles, turtles used to be taken right off the Kahului breakwater - dive for them, but unknown if they were sleeping or feeding.

After releasing the turtle, we took in the net, packed all gear, and left. Got to bed about midnight.

up 7 am following nighttime netting.

8 MAY 85

Wednesday

Breakfast at Tasty Crust #4.50. Picked up radio at airport and was confronted by Mr. Tavares manager of parking at airport. Had been watching for us over past week to stop overnight parking of boat



Need xerox of Olowalu area map.

7

8 MAY 85 3 Reasons ① Use of chained. line only for emergency ② Takes Wednesday up space ③ No storage allowed. TAVAREZ TEL. 877-7842

20°49'N  
156°38'W

Launched at Mala for Savai after buying gasoline, filing with USCG and calling Witham. Departed at 10:30am. Smooth water ~ 3/4 way to Savai then hit wind belt containing waves and brisk wind. Turned around and headed for Pifake, but eventually could see that windline included that area too. Only choice left was to dive at Olowalu, considering earlier reports at Camp Lesesa, and Frank Grouse 6m comments. Anchored off camp at 12 noon in ~ 20' water. Dive boat nearby, but it left soon. Wind comes strong out of valley (Gorge) at times. Turtle seen at the surface before anchoring.

SCUBA #8

DEPTH = 48'

TIME = 50 MIN.

MAJOR FLESHY ALGA SEEN AT THIS DIVE SITE:  
LIAGORA PAPENFUSSII

Shortly before anchoring, we saw a turtle at the surface. Turtle resting near outcrop seen shortly after reaching the bottom. Moved off before it could be caught. Low visibility. Lots of "coral" ridges with sand channels in between. Most of reef has been leveled - dead pointes fall over. Only small amounts of live coral showing up. 30-35'. Swam out to and along the drop, where it goes off to 150'. Several pockets of fish seen. No other turtles seen. Channels have the appearance of

9-10 m

8

8 MAY 85  
WEDNESDAY

having caved-in along the sand-coral interface. There are few places with argillaceous interface - and nothing with an over-hang. Picked up by Zodiac because current had carried us to the east - ~~Maalaea~~ direction. Strong winds still coming out of valley sweeping across water.

Motored a short distance toward Lahaina and anchored a short distance off prominent house on the (Olouala?) point. Wind does not bit here - reasonably calm. Much cleared water.

SCUBA

#9

Found to be harder bottom with no potholes. Moderate slope seaward, with no "drop" apparent. Lots of Spiridia in 11m<sup>35</sup> 14m<sup>45</sup> depth. Helmet Shell sighted. Almost no bottom relief.

TIME=40  
MIN

DEPTH=50 FT

ATE AT KENTUCKY FRIED - \$4.50

8 MAY 85  
WEDNESDAY

POWER PLANT OBSERVATIONS - ARRIVE 8:10pm  
HEAD COUNTS

8:23	- 7	8:28	5
:24	9	:29	4
:25	6	:30	4
:26	5	:31	3
:27	3	:32	5

Moderate wind blowing on-shore.

Many heads seen in pool, but some also to the right, and further out from shore.

Possible ways TO CATCH THE TURTLES/AND/OR EXPERIMENTS TO DO?

1. DRIFT INTO POOL AND HAND CATCH.
2. TURN OFF STEP LIGHT BEFORE SETTING NET  
Floodlight
3. USE SHALLOW NETS AND LEAVE OUT OVERNIGHT  
(Sharks) SET FURTHER OFF SHORE.
4. PERIODICALLY TURN LIGHT ON AND OFF TO GUAGE IMPACT.
5. CATCH AFTER SEVERAL HOURS IN THIS WATER AND MEASURE DEEP BODY TEMP.  
(BRING A TELETHERMOMETER)
6. ATTACH A HELIUM BALOON TO SEE WHERE THEY GO. (GREEN HELIUM TANK AT HUMB?)
7. FLUSH STOMACH WITH A HOSE.  
(150' TO ROCKS?)
8. TAKE COUNTS 12-5 AM.
9. HARVEST IODINE FOR NUTRIENT ANALYSIS. AMANSIA TOO ELSEWHERE.

10 8 MAY 85  
Wednesday

9:02 pm - Two men walked by from Harbor breakwater carrying net canvas bags - flash lights. Seen earlier along water's edge - boulders of breakwater. Taking Opibii? d. Departed 9:05 pm.

9 MAY 1985 Up 5:30 am - breakfast at Tasty Crust THURSDAY #3.50. Launched at Kahului

and motored out along line of left hand breakwater, out from powerplant, as shown for "drop" on map.

Dive at 8:05 - 30' at anchor. Used depth finder. 38 minutes at 65'.

Large female seen at 35' resting under shallow ledge, pretty much in the open.

SCUBA #10

38 MINUTES  
65'

Mostly  
LOW  
TIDE

Swam off as we approached. Spongia in the area - site where turtle resting. Two collected

Continued along at 30-35' level following shallow channel with mostly hard bottom.

This led to shallow areas 15-25', even though I was trying to go seaward to drop off. Surfaced and found that we had veered inshore and to the east of the boat. Took a new bearing, and submerged heading toward boat. After a short distance we came to a descending area, and

9 MAY 85  
THURSDAY

then a "drop" canyon down to ~50', sand bottom and steep sides of limestone/coral. Three adult turtles found "asleep" - I approached each one close, felt for tags etc. Abnormality only noted on one - small tumor on eyelid. First turtle, lying on sand bottom, eventually "took off", clamping its back on a coral overhang. Third I heard by me. Second of three large "sleepers" tried to move further back into recess when becoming aware of my presence. Left in place. The third also stayed in place. In the distance, we saw a turtle swimming away. Difficult a cloudy distance to tell how large it was. We ascended walls and moved over another hole-like canyon. Robert dropped down and later told me he saw a very large turtle in it. Upon surfacing we found that we were slightly inshore and to the east of the zodiac. Back in the boat we saw a couple turtles at the choppy surface. Was we scared out? Alan said he saw several on the surface while we were down. Motored back to boat ramp - 10am. Waited to see if wind

Protection from Tigers?

SAW some AMANSIA at 2:30! + A small Red leafy. collected & sent to D. Russell

9 MAY 85

THURSDAY would stay down, but it didn't.

Instead of another scuba, we motored along the breakwater to the 15' deep "channel" approaching the powerplant discharge. Collected algae - C. edule C. rediae

and Acanthosora close to discharge.

SCUBA

#11

Found Techra light lost night before while getting turtle out of the net.

15' AT

~60 MINUTES

see MAP page 56

6:45pm Visited Kafia Bay for spotting. None seen immediately down from iron wood trees, where Rehe had seen 35-40 close to shore "a month ago" at sunset with big surf. Alan spotted with binoculars a group of turtles feeding off the western point of bay, off rock island off point. Heads regularly seen quickly surfacing.

THURSDAY

Powerplant

9 MAY 85 HEAD COUNTS

8:46 - 12

8:51 - 6

47 - 17

52 - 7

48 - 6

53 - 10

49 - 9

54 - 14

50 - 9

55 - 12

Depart ~ 9:10 pm

Moderate to brisk wind.

Most turtles in or near pool.

When leaving we saw 3-4+ heads near the sand/beach corner. Minimum illumination here. Are these the smaller turtles? Are they feeding?

POWERPLANT

FRIDAY

10 MAY 85

→ HEAD SURFACING

~ 5:37

TO 5:43 am

6 MINUTES in pool

PROBABLY SAME TURTLE ∴ ABOUT 6 MINUTES SUBMERGENCE TIME.

Perhaps 2-3 others seen 20-30' out.

Weather today - 15-35 MPH - GUSTING - SMALL CRAFT WARNINGS  
 wind seemed brisk all night - strong in the face as we stood on the Powerplant bank. ∴ Traveled to PIKAKE -

Breakfast at Pioneer Inn #6.

[Lunch at J.I. Box - #4]

Departed Mala Wharf at 8:05 am. Slight seas until reaching the Sheraton Hotel point "black rock". Brisk wind from there to Honokawahi Beach Park and nearby coastal Pikake. Anchored out from

10 MAY 85  
FRIDAYSCUBA  
#12

40 MINUTES

45'  
deep

Beach park - quite a ways offshore  
Dive ~ 8:40 am <sup>30'</sup> smooth sand bottom  
with slight amount of raised coral bottom  
(3-4'). Continuous patches of coralline  
algae (Halimeda?) looks <sup>like</sup> stalked plants  
growing up out of the sand. Schools of  
filefish seen. Also small black & white  
(dunsel fish?). Continued out into smooth  
featureless sandy area, gradually descending  
to 45'. At that point we veered in,  
swimming to ~ 20' depth - still almost  
nothing in the way of bottom relief-topography.  
Surfaced and found we were still well  
offshore, but inside of anchored yachting.  
Returned to the Zodiac. Only other notable  
algae seen was a Laurencia, and small  
amounts of Amansia.

Pulled anchor and starting to motor back  
Mala wharf. Off the "fig-rise" <sup>just</sup> cado to the  
east of Hanalei Park we saw another  
& turtle floating/breathing at the surface.

Stayed up for awhile as we approached  
then dove. This is approx. the same  
site we saw a turtle at the surface  
when returned from Lisake dive on

May 2<sup>nd</sup>. No other turtles seen when  
going back and forth. Anchored here  
and reentered water with 800 lb air.  
Clear water, unlike earlier dive with



10 MAY 85  
FRIDAY

limited visibility. Pories coral relief here, raising up ~ 10' in places. Up-down bottom topography, with sand in between. Seaward of this, the bottom look hard and drops moderately fast - in contrast with the previous dive site.

SCUBA  
#13

15 MINUTES

40' deep Returned to Mala - washed boat, care and all gear very well. Dropped off tanks at Capt. News. Laura Johnson indicated that the only "blood portender" at Maui Lu in Kihui had recently killed a turtle and was bragging all over about it. I promised to send her postpaid sighting cards, and encouraged her to call collect if dead turtles, or other stranding, were found. Also I should send the "PROTECTED" poster. (NOTE - ask Nitta or HAS if they will print more.)

Returned Zodia to Kahoia, returned to Maui palms to pack gear, shower, pay bill. Ate lunch at JTB. Strong winds. Left car at the airport lot.

Departed on Mid Pacific Air FL 33  
depart 4:15 pm, Arrive ~ 5 pm.

10 pieces of luggage - but no extra charge.

## SUMMARY OF SCUBA DIVES

DATE	LOCATION	MAXIMUM DEPTH	TIME
① 5-2-85	HONOKAWAI	25'	23 min.
② 5-3	MALIKO	65'	45 min.
③ 5-4	HALEPALOA, LANAI	60'	52 min.
④ 5-4	"	50'	45 min.
⑤ 5-5	POWERPLANT	15'	50 min.
⑥ 5-6	KEMUKU, LANAI	55'	60 min.
⑦ 5-6	" , south	50'	56 min.
⑧ 5-8	OLOWALU	48'	50 min.
⑨ 5-8	"	50'	40 min.
⑩ 5-9	KAHULUI	65'	38 min.
⑪ 5-9	POWERPLANT	15'	60
⑫ 5-10	HONOKAWAI	45'	40 min.
⑬ 5-10	"	40'	15 min.

1-10 MAY 1985 MAUI TRIP EXPENSES  
(9 NIGHTS, 10 DAYS)

HOTEL - MAUI PALMS @ #36	-	\$ 112.00
FOOD -		114.00
TEL. CALLS -		7.50
EXCESS BAGGAGE -		10.00
BOAT GAS -		12.50
MISC. -		9.50

TOTAL - \$ 265.50

QUESTIONS -- George - Turtles not seen abundant  
in warm-water years ago?  
- How long has light been there?



Called DOCARE MAUI this Am. Left message with Marilyn

17 JUNE 85 Depart M.I.D.-Pacific at ~12:40pm -  
 MONDAY Bill drove us to the airport at  
 11am <sup>Added</sup> FARE \$10.45 + \$20. excess baggage  
 with Robert & Alan. Aerials photos of  
 84°F 21mph from north. HARBOUR.

Checked in at Maui Palms, by 227 old section  
 to the right. Drove with Robert to Power  
 plant and scope with Mr. Helm -  
 requested that light be turned out for tonight.  
 Returned to Airport to shuttle  
 remaining gear to hotel room in  
 Ford Escort wagon rented from MAUI  
 Car Rental for \$21.95. Organized  
 gear in room, following drop off  
 of 2 tubes, 4 nets (2-5' deep x 6'  
 (1-30' x 11') (1-11' x 60') and  
 4 anchors. Ate dinner at Rizzo  
 Hut.

Set up net ~5:15 and completed in water at  
 6pm - parallel to shore, right end just  
 at border of freshwater-plume area. Left  
 runs through very milky water - 60'  
 x 5' deep. ~2-3' clearance ends to  
 net. Approx. 75 feet from shore.


Sunset at 7:16pm, but consider West  
 Maui Mountains and cloud banks. N.  
 Bright sun rays after ~6:45pm.  
 Turbo pole-fishermen arrived ~5:45pm  
 set up to the right (east), and began  
 transiting stairway to catch live bait.

17-21 JUNE 85

MON. Expenses (NOT ON CREDIT CARDS)  
 6-17-85 Dinner <sup>P.H.</sup> - #6  
 " Coffee + 3AM #2  
 TUES. 6-18 Breakfast <sup>T.C.</sup> #3  
 Dinner <sup>P.H.</sup> #4.50 - SNACK #2  
 WED. 6-19 Breakfast #4  
 JTB - #2  
 JTB - #2  
 THURS. 6-20 BREAKFAST #4  
 SPRAY PAINT 2  
 Dinner #4.50  
 FRIDAY 6-21 JTB - #2  
 Breakfast #4  
 SNACK #2 #49

## OT Reimbursement

Hotel -	\$49
Food -	48
Air fare -	20.90
EXCESS bags -	<u>25.00</u>
TOTAL -	\$142.90

More Easterly wind blowing, i.e.  wind  
 direction loby-shore, along net.

BACKNOTES:

Mr. Helm said that his people have heard gun shots when making rounds outside. At ~ 7pm I saw 2 men with a pellet rifle shooting outside security fence near Park pavillion to the east. He used to use Mr. Botelho came by several times to visit. He used to set turtles - Good spots at Agibeg and Maplea

Says He never did it commercially

At ~ 7:15pm we saw the first turtle head up to breath inside net set 1/2 way from shore to net.

- ① 7:19pm - 3 "net" and 3 outside net.
- 7:31pm - Head seen in pool
- 7:35pm - first splash - hit on net. No sign of capture 5 min. later.

- ② 7:42pm - 2 lights on top of fuel tanks of power plant went on.
- 8:06pm - Second splash hit on net - again nothing seen a few minutes later

8:30pm A man paddling a kayak went by left to right ~ 100yd. outside net. During this time period, lots of heads seen inside net, some just outside shadowed area of plume pool. No concentration right in pool, as during previous time

- ④ 9:50pm fourth splash hit
- Counts made by Robert and I:
 

9:35 pm - 3	9:40 - 5	
:36 - 3	:41 - 7	9:45 - 4
37 - 6	:42 - 2	
38 - 2	:43 - 3	
39 - 7	:44 - 5	(Hit net) THIRD

MOST INSIDE NET, OUTSIDE POOL



17 JUNE 85  
MONDAY

Alan had walked to the right while Robert and I did counts. He didn't see any.

Turtle heads also seen just outside net. Some heads very close to net.

Conclusion: Turning off step light, <sup>net set in Milky</sup> NO moon, allows turtles to come in even though net is there. However, something (light off?) is keeping turtles from coming right into plume pool.

(CHANGE) more important than attribute itself?

(5) 10:05pm - splash hit and capture.

BREATH-HOLD  
Counts on this turtle while in net:  
(ALAN & I) (Laying AT REST?)

11:01-35 > 45 sec

11:02-15 > 55

11:03-10 > 1:50

11:05 > 2:30

11:07-30 > 4:00

11:11-32 > 2:03

11:13-35 > 4:45

11:18-20 > 1:05

11:19-35 > 3:40

11:23-15 > 1:45

11:25-00 > 1:45

Note - No close "double" breaths. Related about to counts previous made with disturbance.

17 JUNE 85  
MONDAY

\*  
2-PAIRS of opihī - BIK CRAB  
pickers came by along rocks w/ small  
lights.

11:30pm STAIR LIGHT TURNED ON - Glow at fire  
with gradual brightening to full  
intensity over a ~~50~~<sup>55</sup> minute period  
Counts again by Robert & I:

11:38 pm - 0	11:43 - #
39 - 5	44 - 2
40 - 2	45 - 3
41 - 3	46 - 5
42 - 4	47 - 6

most in the same location - inside  
net.

Consider - that foraging must be  
occurring right off here, in  
addition to warm water advantage.

At ~midnight we suited up - Alan  
took Oud tube, Robert & I went  
ahead snorkeling w/o lights into  
pool plume. Reasonable visibility, in  
spite of no moon, some clouds.  
Illumination comes from 2 light on stove  
tanks, lights on power plant building,  
and lights from Watson yard.  
when Robert & I entered pool, no  
turtles were seen, but one <sup>adult female</sup> ~~stream~~  
out of cloudy periphery slowly toward

ON ALL  
THE TIME?

me. Did not startle when I initially grabbed it forward of carapace. But then took off swimming hard with me seaward. I let go after a few seconds.

We proceeded to get turtle tangled in net for 72 hours now. Large -- heavily tangled around neck & bases of both front flippers. Hinds not caught at all. Put into tube on back. Had to cut snail around right, then the rest easily came off. Transported to on top of discharge cement pad. Used other tube to bring in net. No other turtles seen along the net. Wind brisk at times, but relatively warm.

TUES.  
18 JUNE

12:45  
AM

captured 6/17

MATURE MALE

8464 LFL

No signs of courtship scars/biting

8465 L3-4

on flippers or elsewhere.

8466 RFL

8467 RHIND (HIND A GOOD SITE FOR recap. visually of large turtles sleeping in caves/ledges)

S - 86.2 cm

notch - 85.9

C - 90.5

PL - 70.4

HEAD - 12.2

TAIL - 40.2

RFF - 14.8

#8464 Kahului, Maui

Codium edule	95%
Acanthophora spicifera	Trace
Hypnea musciformis	Trace
Halimeda discoidea	Trace
Red-orange paint chips	
Small crab leg and eyes	

18 JUNE 85

TUES

## MACE CAPTURE (CONTINUED -)

Heavy, almost complete coverage of skin baracles on pelvic region - Also dense on pectoral skin. A few white patches of coralline on carapace. Burrowing <sup>baracles</sup> in seams of scales on fore margins of front flipper. No skin algae rot.

Bone wedge taken from 10<sup>th</sup> margin left.

# 9-13

Several photos. Also close-up of built-up scar wound with 1cm deep hole right in the center on the right ventral of the throat. Definitely has the appearance of old spear hole wound.

Electroanesthesia not used - not needed - partly because of use of tube.

Borrowed more hoses from George YANAGI and reached pod where turtle was. Inserted black tube down throat, and used garden hose with fingers to get stream of water under slight pressure into stomach and flush out food particles. Obtained lots of Coolwin small pieces (from mouth) of float <sup>in</sup> turtle bit and some small red filaments. Water flush and particles overflowed into plastic fig container.

18 JUNE 85  
TUES.

31

A MEC employee ~~MACH~~<sup>TSUDA</sup> came to talk to us and see the turtle. Worked there 2 years. He remembers turtles being taken a lot by powerhead in Paia area. They used to cut the head off with a knife so it would show that they had been blown off. His mother used to make ~~wrote~~<sup>like the dish - "Chicken Wekkra"</sup> with the meat given to them. Botelho mentioned making bar-b-q of font flippers after boiling water allowed skin to be peeled off.

Had tacos at Jack in the Box at 2:30am  
to Bed at 3:15am.

Up at 9:30am. Breakfast at Tasty Crust.

Wrote up data most of day. Slept from  
~ 1:45 - 3pm. Dinner at Pizza Hut. to

Powerplant at 4:15pm. Put a 60' x 4 1/2'

(5pm) piece from discharge pad #1 - starting 20'  
from shore curving to the east. Photos  
of very distinct clear water & cloudy water.

Set up second piece of net 60 x 5',  
same as yesterday but cut-holes not  
mended. Set in about the same position  
as yesterday. Therefore:

Rubble  
Bottom  
hard to  
anchor with  
a danforth.

□  
#1

□  
#2  
≡

SANDY Bottom  
over here

swell raises  
up - sometimes  
breaks -  
must be quite  
shallow over  
here.

18 JUNE 85  
TUESDAYBACKNOTE: *Pterochelid* abundant along boulders, but only *Codium* flushed out of last night's water.Second net in water completed at 6 pm.  
Many and woman pole fishers to the right - same site as 2 men last night.

- 7:24 pm first head seen - <sup>then not much of anything seen for an</sup>
- ① 8:05 splash at left end outside net for several minutes, but out.
- ② 8:11 pm Middle of outside - big one(?) caught, laying at the surface.
- > 8:15 several heads seen in & around pool
- ③ 8:18 - big splash inside net. <sup>Here & there</sup> <sub>fish come.</sub>
- |      |    |    |
|------|----|----|
| 8:48 | -4 | -2 |
|      | 1  | -2 |
|      | 0  | -7 |
|      | 4  | 4  |
|      | 1  | 2  |
- ④ 9:02 capture - inside net, right to left.  
Lots of pulling.

18 JUNE 85  
TUESDAY

33

HAD

turned  
Light on ~ 9:25 pm  
HEAD COUNT

~ est. 5 minutes to full intensity

9:34 - 4	39 - 3
35 - 2	40 - 3
36 - 5	41 - 3
37 - 0	42 - 3
38 - 1	43 - 1

At ~ 10:15 pm we went into the water - Robert and I swam into clear area - saw a minimum of 4 turtles drifting around - (1) adult female TMS on neck, under posterior of shell, and in eyes. (1) med. juvenile (1) very large, by Robert's est. (1) large female while we grabbed onto the ends of the front flippers - Broke free once from me, but I grabbed again. Not as much struggling as I would expect for a turtle this size. The three of us worked here up on the smooth rocks just west of discharge pod #1, where we turned her on her back. Alan and Robert then went out to check on turtle in outside net since 8 pm (> 2 hours). I got teletherm and took deep body temperature. Flex probe went way in - well past second black ink mark. Data on this turtle on following page:

HAND CAPTURE  
♀ 28.8°C  
DEEP BODY TEMP

18 JUNE 85

TUES. - 10:15pm HAND CAPTURE IN PLUME

#24

8

#24

POOL. ON BACK ON WET BOULDERS -  
 photo close up of right eye blind -  
 poked-out? eyeball seems atrophied - missing  
 EYE LID IN GOOD SHAPE THOUGH.  
 Perhaps ease of capture due to turtle being blind in area

S- 92.0 x 69.2

no Notch

8468 RFL

8469 R3-4

PL-72.7

HEAD-12.3

8470 LFL

TAIL-20.0

RFF-14.6

8471 RHIND

28.8°C

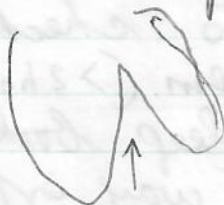
lots of skin barnacles

NO SKIN ALGAE

stomach sample not taken

bone sample not taken.

Right Hind flipper has a piece missing, but  
 completely healed.



[THIS TURTLE RECAPTURED IN NET 6/20/85  
 ~ 8:30 pm]

ALL 4 TAIL

6/30/90  
 Reported  
 nesting  
 on  
 EAST



18 JUNE 85  
TUES.

Turtle caught from outside net - 8pm brought in (large female) in tube and put on pad #1  
Outside net then brought in - 10:45pm.  
Data as follows:

S - 90.2 x 63.9  
Notch - 89.9

8472 LFL

PL - 71.2

8473 L3-4

HEAD - 11.8

8474 RFL

TAIL 22.0 (Adult, female)  
RFF - 14.8

#8475	6-18-85	female
Codium edule		99%
Acanthophora spicifera		18
Amansia glomerata		Trace
Ahnfeltia concinna		Trace
Hypnea pannosa		Trace
Ceramium sp.		Trace

8475 RHIND

worn groove area in anterior surface of upper beak.

#21-23

Photos of turtle on its back in the tube on Discharge pad #1. + while stomach sampling.

Bone sample from 10th marginal left  
Many skin baracles.

Bursing baracles in foremargins of front flippers and hind flippers.

6 med-small turtle baracles on ventral margin.

Bright pink coralline alga on carapace + a few small turtle baracles.

Garden hose and stomach tube used to wash out stomach sample. Codium + obtained.

Very difficult to open mouth.

Attempted PROBE - BUT it wouldn't go in far enough.

36 18 JUNE 85  
TUESDAY

1/25/89 FOUND DEAD near  
Hale Nanea (100 YARDS EAST OF  
POWER PLANT)

Turtle caught in inside net at 9pm removed  
~ 11pm. Inside net brought in ~ 11:30pm  
After our initial 10:15pm entry into  
the water, no additional turtles seen  
underwater, or heads at the surface.

8476 RFL S - 80.4 x 62.3

8477 LFL PL - 66.9

(not on as far as  
it should be)

HEAD - 11.5

8478 R HIND

TAIL - 13.7 (APPARENTLY A FEMALE)

RFF - 12.9

- #26-27
- Many skin barcodes on neck & pelvis.
  - Bone sample 10<sup>th</sup> marginal left.
  - Moderate amount of red skin algae  
(unlike others) - Doesn't normally bask in  
hot water??

Very orangish plastron - should show  
in photo of turtle (in tube) on the rocks  
with other turtle in tube on pod, to the  
in background. Also noted that  
this turtle is much "flatter" in the plastron  
than the previous ones.  
Stomach flushed with hose - lot  
of Codium + Acanthophora obtained.

#8476 Kahului 6-18-1

Codium edule  
Acanthophora spicifera  
Amansia glomerata  
Champia parvula

99%  
1%  
Trace  
Trace

Very difficult to get these heavy turtles up to work on them, and then to get them uninjured back into the water. <sup>Potentially</sup> Dangerous to us, and to the turtles.

Possible reasons for low capture rate given the number of "hits" we see:

- 1) Shallow so don't tangle as well
- 2) Turtles not moving hard - just drifting back and forth
- 3) Mesh size too small for these large turtles? Silva says his nets were 30-36" mesh. Botelho says his were 8-10".
- 4) Turtle can see the net, so somehow don't tangle as easily. (But this wouldn't very well apply to outside net in very milky water.)
- 5) Low capture, given the number of heads seen because surface to bottom isn't blocked off, so turtles go under the net - either intentionally or that's the depth they normally swim at.

Trace  
Trace  
Trace  
Trace

Laurencia nidifica  
Jania capillacea  
Pterocladia sp.

Acrochaetium seriatum Boerg.\*

first time  
ever found  
me in a  
turtle

Reve

Silva mentioned that they used to catch a few turtles here at powerplant before - Sneak net outside and parallel - then splash

8476-78

19 JUNE 85  
WEDNESDAY

water to scare the turtles out.  
He regularly set his net somewhat  
down further right off the breakwater.

Botelho mentioned that during <sup>LABOR</sup> strike  
of 1947, lots of turtles were netted  
to feed the strikers. Sugar was  
strike or ??

He also said that lime in turtle  
stomach was all compacted, "like  
compost". He remembers red &  
green lime. His nets were  
set with 3 guy from a large  
truck-tire interstubs. 50' pieces -  
~ 8 of them, joined together. Set  
to block off channels - pathways

Departed ~ 2:15 am; awoke at  
JITB, to bed ~ 3:15 am.

Up at 9 am - Botelho called  
about showing us his former turtle  
netting site at Waiehe. Met him  
at Tasty Crust at ~ 10:30 am.  
Drove to Waiehe, adjacent to abandoned  
Dairy. Large bay here, with cliff  
banks. Beach Shack built here  
out of old lumber. Met a Mr. Ape  
68 years old born and raised at  
Waiehe. This is one of the

19 JUNE 85 wed.

places Botelho used to net turtles - inside the reef, in shallow channel (~5-10' deep). Turtles came in here to feed on limu. Afo said no turtles here anymore - he comes morning and evening of each day. Said they stopped being there about the time they became protected. Attributed decline to large storm (~1976)? when trees, all sorts of things washed into the sea. Springs were (are?) reported to be here - Afo said water was diverted from Waiee to other (tourist) areas on Maui. Botelho said they used to net very large turtles there. A couple algae photos taken. Afo said that years ago he used dive down outside reef in water 10-20' deep and "hook" turtles at the base of a front flipper. Algae noted here by me was Hypnea musicornis. Small clumps washed on the beach, & Ulva fasciata on partially exposed rocks. Need to snorkel this area to see what else is out there. 2-3 spears in water now. Several other old men in shack. Other cars and people parked around. Botelho also told about another turtle fishing site he previously frequented, in Mabllea. Drive to the end of road where

see in  
MAP  
Book #2  
page 55

-AFO SAYS  
Turtles  
ALSO at 11  
NABU Home  
lost house outside  
Mabllea toward  
MACHETE PT.

19 JUNE 85  
WEDNESDAY

Cordos row are to the east of the harbor. There is situated a "nice bay." Nets were set from small boat 2-300 yards from shore in water 30' deep. This occurred prior to cordos construction (approx. < 1967 by my estimate).

Then drove to Lower Waiehu - large bay immediately north of large cement drain canal. Trash dump area nearby. Many somewhat rundown residences. I took photo looking to the north.

Botelho reports this was also a place he caught turtles. Drain canal not finished when 1976 storm hit - lots of construction material, plywood, washed out to sea. When river bed was changed, turtles weren't as common here. Livu supply affected? No algae seen on beach - smooth small rocks. Lots of human presence. "Beach people" too (?) like Oahu?

A. Botelho will check with DOCAPE Louis De Silva who mentioned to him about finding remains of turtles. Wrote data the rest of the morning - Robert & I slept. I slept in the afternoon for 2 hours while Robert & I ate dinner and mended the shallow net.

Returned to powerplant ~ 5:15 PM

6-19-85

Brisk trades, but little swell. Set to joined shallow pieces (120') parallel to shore 80+ meters out, extending partially in front (off of) plume pool, extending towards the Hobron Point of breakwaters. Temperature

6:20 pm

Set NET.

reading all along here = 27°C. 29°C for a short distance in cloudy water just off plume of pad #2 - 30°C within it and close to shore moving down current. <sup>even in cloudy</sup> off pad #1 and down stream it was 31°C. Apparently the warm water <sup>TRAPPER</sup> is held here and heated up even more during the daytime by sunlight. <sup>NO PAD 2 discharge is working</sup>

At about 6:45 pm I walked along breakwater point (Hobron Pt) to spot turtles.

Head (breath) seen at 7:13 pm right off the breakwater. Big slow even breath. Seen here a few more times - possibly feeding > 3-5 other heads seen further out - apparently "coming in" toward warm water from further offshore.

At about 7:30 pm, the step light went on inadvertently for ~ 10 minutes before being shut off. Floats at each end could be seen reflecting 2 lights on fuel tank.

Prior to this there is an intermittent period of twilight illumination where sheen on water prevents good visibility of net. After 8, there is a dark shadow-land along nearshore waters covering most of

19 JUNE  
WEDNESDAY

freshwater plume. Band of low illumination outside of here results from 2 lights of fuel tank. This lighting not it very easy to see heads that surface. William & Paul came by for a short time - were here for the day investigating Kihai Tomyars from which shells were previously taken. Chief reportedly was indicted by INS for bringing in illegals. Starting about 7:05 pm team reports seeing 4 heads inside net line. Thereafter, more seen all inside between shore & net, and also in plume pool - but harder to see here due to shadow. Count as follows - Robert & I:

9:28 pm - 7	9:34 - 9	) note	4-5 minutes APNET
29 - 10	35 - 8		
30 - 10	36 - 4		
31 - 2	37 - 4		
32 - 3	38 - 1		
33 - 4			

Most counts from inside net, but outside pool which is shadowed by entombment.

BACKNOTE: Elevated bank (~20') gives good visibility to net/ nearshore waters.

Small sliver of moon seen setting right after twilight.



- Botchlo sports station yard/breakwater addition constructed ~ 1964. 43

Lots of heads continued sighted, but no hits slashed on net.

Asked for steps-light to be turned <sup>ON</sup> out at 11:30 pm. Counts then made again -

Kam looking right at row-illuminated plume pool, Robert looking elsewhere inside net where was mostly counted earlier.

	<u>ELSEWHERE</u>	<u>POOL</u>
11:44 pm -	6	9
45 -	3	4
46 -	4	5
47 -	8	9
48 -	8	7
49 -	5	5
50 -	1	11
51 -	3	5
52 -	5	5
53 -	8	11

3 of us  
Entered water to the left of pad #1 and swam without lights toward plume pool looking for turtles. Bottoms visible, in spite of cloudy water. Possibly as many as 9 turtles seen in clear plume pool. I grabbed the end of fruit flipper of an ~80cm male. Flapped around a lot, without Alan or Robert getting a hold. ∴ lost it. Large females seen in this area of plume. They left in commotion. Robert urged me to grab a

6/19/85

large smooth rock on the bottom! Swam up into very shallow "lapping" area of plume pool. Three turtles seen (here backs (posterior) to us as we approached. One was notably smaller, which I grabbed by the head of the front flipper. Subsequently hard-fought onto rocks, and into waiting tube on foot. Subsequent patrol of area resulted in no other turtles being seen. Took large tube out and brought in net - 12:45 pm. Moved turtle to top of steps and recorded deep body temperature  $27.6^{\circ}\text{C}$ . Unknown how long turtle has been here in plume.

After 20 more minutes -  $27.6^{\circ}$

" 25 " "  $27.5^{\circ}$

" 30 " " reinserted probe -  $27.2^{\circ}\text{C}$

How cold is it offshore where the turtles stay?

Mag Coleman - Foreman Security Guard, on duty after Bothelo at midnight, gave to. Didn't seem to know much about our activities.

6-19-85

DATA ON HAND-CAPTURED TURTLE

8479 LFL

S-71.8 x 55.9

Notch-71.1

8480 RFL

C-76.0 x 69.0

8481 LHIND

PL-56.8

HEAD-10.5

TAIL-12.5 (APPARENTLY A FEMALE)

RFF-12.9

#8479 Kahuulul, Maui 6-19

- Laurencia nidifica 50%
- Amansia glomerata 25%
- Acanthophora spicifera 25%
- Chondrococcus hornemanni Trace
- Ceramium sp. Trace
- Codium edule Trace
- Champia parvula Trace
- Dictyota sp. Trace
- Small crab Trace
- Grass fibers Trace
- Sand

#8479 SKIN CAERPACE

Chaetomorpha brachygona\*

First TIME found by me

No burrowing barns on flippers.  
 Used Stockstill, after taking out telethermometer probe. Only low amps required (6-8) to maintain immobility. As always, clipped it to tips diagonally on front and hind flippers.  
 Blood sample obtain - settled overnight and then pipetted.

sent 8/5/85 - Bone wedge taken from 10<sup>th</sup> R MARGINAL <sup>TSUP</sup> photos with probe & MEC Mark & Robert. Small hole (spear induced) in 1st lat. Right. White healing tissue inside - only a few mm deep.

Green alga scum on carapace - (sampled for ID). Red and some green skin algae on neck.

Dorsal tail loss, skin barocles - a few. Patches of pink collagen on carapace.

Stomach flush samples - lots of small pieces of Amansia, Acanthophora and ? filaments.

This turtle feeds differently than others

Why do some turtles have burrowing, and other differences in epizootics??

Live different areas?  
Don't often, or usually, use warm discharge

20 JUNE 85 Again, finished up - 2 AM - snack at JIN  
Thursday<sup>AM</sup>

Up at 9:30 AM - some breakfast. Wrote up data most of day. Powerplant to set up nets at 4:30 pm  
Straightened joined 120' x 5' and set up 1 - 60' x 10'. Long net parallel to shore, starting just to the right of plume pool, running to the left. Set just outside clear area in cloudy water, perhaps 50' from shore. Configuration: Painted Buoys black.



Tried to set 60' x 10' piece more to the left for an L or T (L or T) shape, couldn't find anyplace to hook the danforth anchor in that area. All had

20 JUNE 85  
THURSDAY

47

bottoms - - needed a "retar" coral anchor.  
Nets all in by ~ 5:45pm. Much windier this  
afternoon than previous days. Lots of wind caps.  
But little or no ocean swell.

Passerby David (to <sup>Hawaiian</sup> sounding), said he stays  
just down the beach from here. Nearby  
pavilion is own by a Hawaiian Club  
that rents it out for Luau's, etc. Once he  
was there with a bunch of guys - one came  
back all excited about seeing a <sup>large</sup> school <sup>whole</sup> of  
turtles. They went down and watched, but in a  
short time they all swam away. <sup>(TOOK OFF)</sup> At 6:30pm  
I took thermometer and vials and  
snorkeled the nearshore area.

7-6-85  
READINGS  
MOP  
BY KAM

Vials of Seawater for Salinity

32.0‰	1 -	in 27°C to the right toward pavilion
34.0‰	2 -	30°C within plume pool
33.9‰	3 -	30.3°C right in discharge of pad #2
34.7‰	4 -	31°C off pad #1.
32.9‰	5 -	32.2°C right in pad #1 discharge (Flow rate much lower than PAD #2) Taken by Robert 6/21 AM.

In pool I again noted bits and pieces  
of various kinds of algae, mostly Codium  
and Acanthopora, drifting back and forth  
in the water column.

David (of above) <sup>mentioned</sup> that turtles are seen off  
the end of the rock jetty just east

48 20 JUNE 85  
THURSDAY

of the sand beach by the pavilion. He said turtles are sometimes caught by people he knows when fishing for fish. He sometimes sets a gill net for fish.

While snorkeling, I searched for Pterocera growing on the boulders, to the east, which I photographed from the zodiac at low tide during the May trip. None seen. I also looked from shore with a flash light at midnight low tide. None apparent. Did the ammonia spill of a few weeks ago somehow affect this algae? Was it at low tide? Or is this change something natural? If so, I haven't ever seen it elsewhere.

Photo by Robert of me "loshing" in hot water of Pod #1.

Two fishers from the first night are back but this time fishing from the rocks off the asphalt road across from the Matson yard. One of them again came to Pod #2 to catch live bait with a small pole.

→ 7:14 pm - first head seen ~ 20' other end of long parallel net.  
7:31 pm head seen in plume pool. Must have negotiated around the net.

Check at  
1 pm -  
Low tide -  
Pterocera  
present.  
low in water  
on rocks

Thursday  
20 JUNE 85

8:10pm Big splash - flapping around at extreme left end of inside net, <sup>we thought it</sup> was caught.

8:13pm Splash in the center of inside net.

8:17pm 2 big splashes, one after the other, along right end of inside net - but not caught.

8:24pm Now dark enough for the first sighting of outside net (with wood-barnished floats) with binoculars. Inside net is highly visible because of larger diameter pick float line.

Red plastic floats at left end are bunched up and there may be a motionless turtle in here - impossible to tell even with binoculars and large search dive light. I swam out (missed end of net! swam first to outer net) and found snailed floats and lead line. The turtle obviously never got tangled well enough to be held in place.

Upon my swimming back to shore, Robert & Alan told me about another apparent capture, again in the inside net. Now

8:30pm all three of us swam out.

Capture turned out to be 8471 + 3, hard caught days ago on 6/1/85.

8468

8469

8470

8471

Put into tube, untangled, fiddled out aways and let her go.

20 JUNE 85 THURSDAY

51

2<sup>nd</sup> capture of the evening - inside net - 10 PM.

8482 LFL S- 86.0 x 65.5

8483 L3-4 web PL- 68.4

HEAD- 11.8

8484 RFL TAIL- 20.3 (apparent female)

R Flipper - 15.5

8485 RHIND

- Lots of skin barnacles
- Burrowing barns on flippers
- Bone sample taken, 10<sup>th</sup> marginal left.
- Stomach sample obtained - <sup>only</sup> small pieces - ACANTHOPORA + ?

Worked up in tube on pad #2 -

Electroanesthetics used - photos taken

#17 & 18

#8482

Acanthophora spicifera	99%
Amansia glomerata	Trace
Codium phasmaticum	Trace



20 JUNE 85  
THURSDAY

3<sup>rd</sup> CAPTURE OF THE EVENING  
inside net ~ 10:30pm

23 JULY 1986

FOUND DEAD BY SKIPPER  
HAU & SHARON SPURLING AT  
PAUKHALO (NET)  
2.2 km north of  
The power plant  
POLMEDIO  
PHOTOS IN FILE

8486 R3-4 web

S-96.5 x 73.0

8487 Rhind

(exceeded straight line of calipers, which  
are only 95cm)

8488 L distal  
455?

PL-78.0

HEAD-14.1

TAIL-28.0 (adult female)

Right Front - 16.6 cm

#20-21  
Left on rocks on her back next to pad #2  
when first brought ashore, very heavy.  
Later put in to tube to do data work-up.  
Two photos of turtle in tube.

3<sup>rd</sup> scale left and part of fourth missing on front flipper.  
Burrowing barns on flipper. None, none  
on plastron or elsewhere.

Turtle barnacle on head, and a few on carapace.

Bone wedge taken - 9<sup>th</sup> marginal right.

Tumors coming out of both eyes - bloody  
after being on back (excess pressure to  
blood vessels?)

Many small polyp tumors all over shoulder

3<sup>rd</sup> capture (continued)

and other skin areas. "Fl" areas of front flippers too, hence tags not applied there. A few larger tumors in pelvic area. Photos should show the numerous tumors present on this turtle.

- Previously this evening 3 highschool(?) boys came by on bikes - stayed at little in tube. I swam back in and explained what we were doing.
- DOCAEE in blue jump suit also came by before dark - had talked to him. Wanted to know what we were doing.

About 11:30pm we swam out to take in the nets, outer one first. Outer anchor had drogged in some. Found a small turtle caught at the extreme outside end near float line (fortunately). If had been caught near the bottom, I doubt if it could have surface regularly over a day period to breathe, since net was set across the wind direction and white-caps present from brisk wind.

Data on this small turtle on p. 57

I swam the turtle in while Alan & Robert brought in the net.

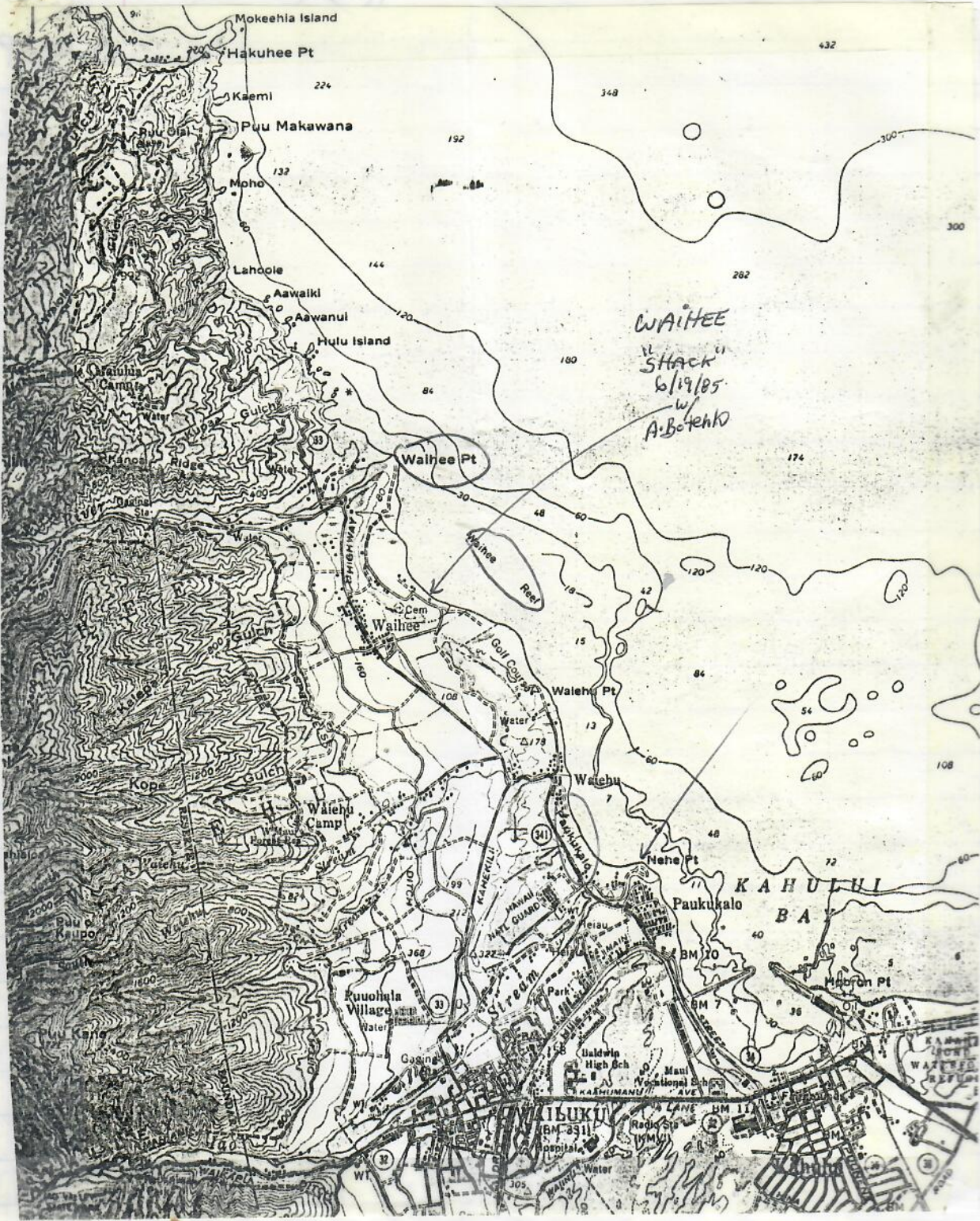
SUMMARY OF TURTLES CAPTURED  
OFF MAUI ELECTRIC POWER PLANT 7 MAY 85  
17-21 JUNE 85

DATE	METHOD	STRAIGHT CARAPACE CENTIMETERS	SEX	TAG NO.	SAMPLES
5/7/85	NET ) 1	INDENT IN CARAPACE 78.3	M	7270- 72	- BONE - STOMACH
6/17/85 Page 29	NET ) 1	SCAR TISSUE & hole in neck 86.2	M	8464- 67	- BONE - STOMACH
6/18/85 Page 34	HAND ) 2	RIGHT EXPORT 92.0	F	8468- 71	- <del>STOMACH</del> - TEMP. 28.8°C
6/18/85 p. 35	NET ) 3	- 90.2	F	8472- 75	- BONE - STOMACH
6/18/85 p. 36	NET ) 4	- 80.4	F	8476- 78	- BONE - STOMACH
6/19/85 - p. 45	HAND ) 5	Small indent hole in carapace 71.8	F(?)	8479- 81	- BONE - STOMACH - Temperature - BLOOD - Alga on carapace
6/20/85	NET	RECAPTURE OF 8468		FROM 6/18/85	
6/20/85	NET ) 7	- 86.0	F	8482- 85	- BONE - STOMACH
6/20/85	NET ) 8	MANY MISSING TUMORS + SCALE 96.5	F	8486- 88	- BONE
6/20/85	NET ) 9	- 44.8	IMMATURE	8456 8457	- STOMACH

10 CAPTURES

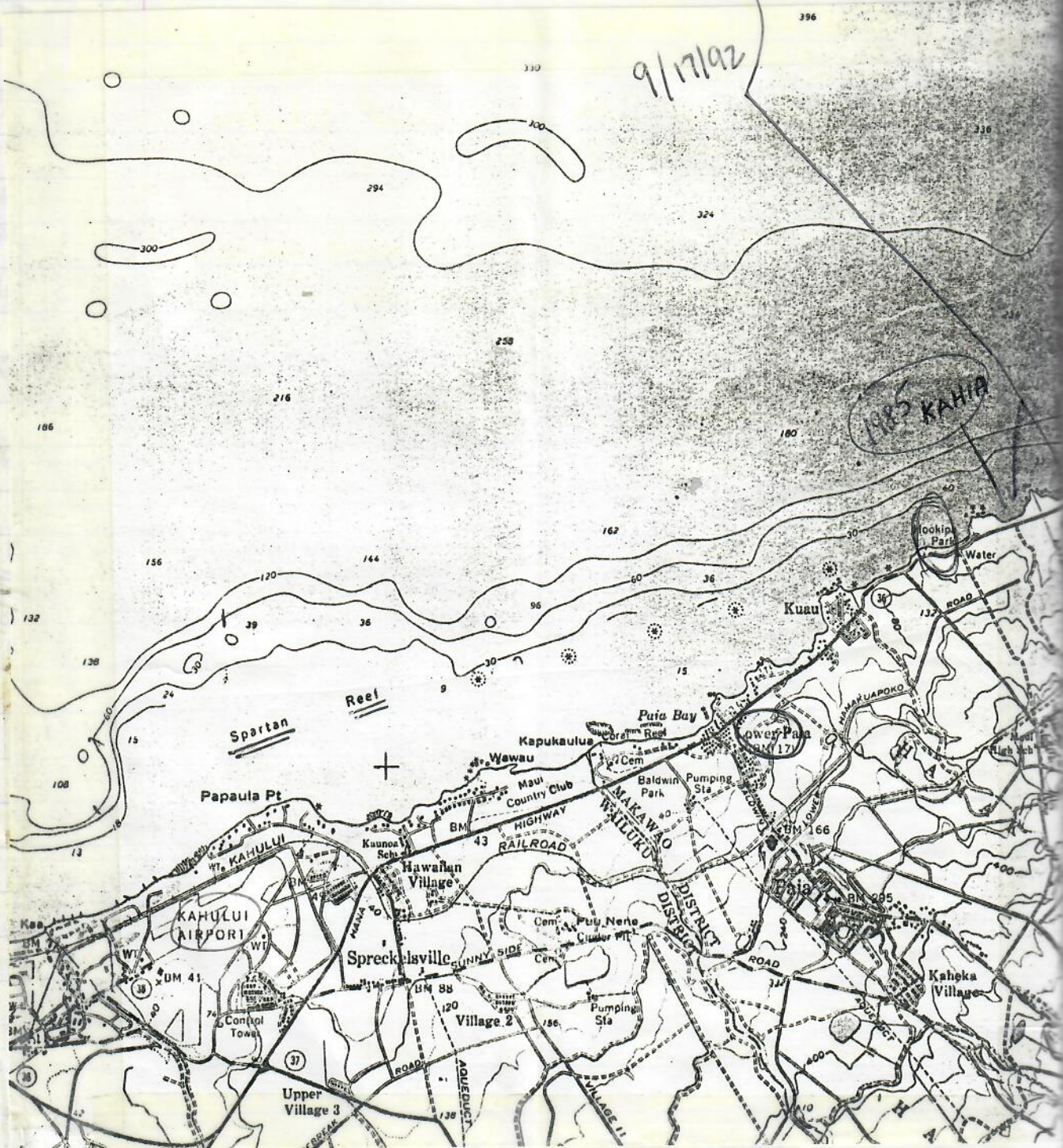
9 TURTLES (7 by NET, 2 by HAND)

Blood - 1 VIAL SERUM 8479



"Turtle Land"  
Aug 1987  
MARK REDD  
150 YARDS  
From shore  
50x75  
YARD  
OUT  
crop

9/17/92



20 JUNE 85  
THURS/FRIDAY

57

4<sup>th</sup> Capture of the evening/early morning.  
End of outside net - 11:45 pm  
found it may have been there for some time.  
Taken up by car and photoed in  
plastic anchor box.

8456RFL

Other tags in this immediate series  
used on Molokai recently.

8457LFL

S - 44.8 x 35.7  
Notch - 44.6

C - 47.0 x 41.5

PL - 35.4

HEAD - 7.0

TAIL - 6.5

RFF - 7.8

#8456 Kahului, Maui  
Pterocladia sp.  
Laurencia sp.

Trace  
Trace

- NO Bone sample taken (too small of a turtle)
- Couldn't get blood out
- Pink Coralline on carapace
- Green algae on plastron
- Small skin barns on pelvis
- Burrowing barns on foremargin of front flippers.
- Stomach sample obtained - only small pieces -  
Aemithopora + ?  
NO see above IP!

JUNE 20/21/85  
Thursday pm / Friday AM

Everything wrapped up by 7:45 am.  
Left all gear stored again at plant  
to be picked up prior to departure.  
Jacked in the bar snack, then back to  
Main Palms.

Up 8:45 am. Wrote data, while  
Alan and Robert dried, mended and packed  
nets and other gear.  
(Following breakfast)

Stopped by powerplant to see Helm. Transported  
gear to airport.

Departed on Mid-Pacific at 3:15 pm.  
Van at airport, to lab at

~ 5 pm.

8/20/85  
Wed.

6:10 pm Saw

2 small  
turtles

wind more from east -  
Hot H<sub>2</sub>O pool  
"pooled"  
AS  
mud

6:20 pm - Large one seen but  
seemed to swim away

6:35 pm Large one - further out  
up all down  
same place

Return at 7:15 pm - nearly full dark -  
Lots of Large close to  
shore - shallow one  
beside the other.

Depart Maui 8 pm for Honolulu