

BALAZS 1/89 - 5/89

NECROPSIES - P. 7-10; 68-69;

Elliott  
Jacobson  
1/25 - 5/3/89

+ JACKCOVER.

SLP except <sup>PRINT</sup> MARKING  
P. 98

P. 33 Portlock P. 111

KAPOHO  
P. 94-97

VOLCANO Nat. Park

Kaneohe Bay

2-15-89 (3) P. 49-51

2-22-89 (11) P. 55-61

2-23-89

3-31-89 (1) P. 103

WEST BEACH

KAHALA

1-31-89 P. 34

3-17-89 P. 88

Joe CARDARO = (213) 514-6665 → Home - (213) 920-9285

Region - Terminal Is. (213) 514-6196  
SECRETARY 5343 FTS-795-6196

Murray - (213) 985-4878  
Home → 598-7415 (4806)  
331-

Calif State Univ.  
1250 Bellflower Blvd  
Long Beach

L. Taylor (415) 3474

Tim Gerodette = 373-3067 John Henderson = 261-9491

Steve Kaiser Home - 239-6335

JOE ELM - 395-8226  
Robin Pistor - 395-0169

GOLDIE - 395-5226  
Cheryl Matsumoto - 395-7835

Mary Ann Chang - 395-0775

HARRY FINCH - (213) 457-7895  
32101 Pacific Coast Hwy 90265

TOM FAYE - 395-9711



Bill Gilmartin  
new phone  
263-3611

in.

**GEORGE H. BALAZS**  
ZOOLOGIST  
MARINE MAMMALS AND  
ENDANGERED SPECIES PROGRAM



MEMBER, IUCN MARINE TURTLE SPECIALIST GROUP

NATIONAL MARINE FISHERIES SERVICE  
2570 DOLE ST.  
HONOLULU, HAWAII 96822-2396

TELEPHONE  
(808) 943-1221  
(808) 395-6409

ed & Margin  
ed & Margin & Paged  
ed & Margin

Donna MacDonald  
(619) 226-3941

HONOLULU LABORATORY  
Southwest Fisheries Center  
2570 Dole Street  
Honolulu, HI 96822-2396

FSR 200 8LIA3VW1

MARINE TURTLE RESEARCH  
TASK

HAWAIIAN CARGO - 835-3300

PUNALOU PA PHONE - 928-9944

Barry Choy - 235-1391

Holy Nativity - 373-3232

Ed Medeiros - 553-5702

Tom/Shirley TAKE - 395-9711

Robbie HIND - PARKER RANCH = 885-7311

MOP HILO - 933-3544

Larry Ogren (904) 234-6541 (Home 234-5709)

Robert Forsyth (503) 288-9573

Phil Dye (408) 286-0755 (904)

Karen 392-5194 office

Doug DeMaster - office (619) 546-7165

Bill Cooke = 257-2175

Home MARL OLIPIHANT = OFFICE 637-7100 6100

967-7416 home

LARRY KATAHIRA > 967-8226

DAN TAYLOR

J. Owens\* (409) 845-7783\*

Elliott Jacobson (904) 392-2792

Doug DeMaster FTS office 893-7165 HOME = (619) 741-0150

Kuapa Preschool - 395-7345

Parker Ranch - Mr. Hind - 885-7311

Hilo Harper - 969-1478

GULKO - 885-4139 = home HPA = 885-7321

EXT 43?

Anne Meylan - (813) 896-8626 home - (813) 821-2486

Wilcox Hospital - 245-1100 3420 KUHIO Hwy. 41 Ave 96766

DOCARE HLO = 961-7291

Diane  
Tobben 23466 Baker

UNLISTED

Taylor 48180

Viola & Geor  
Fredorain 22240 Samuel  
Taylor 48180

204

291-  
2377

284-2544

Mary Jane  
Witz 17620 Poplar

Bobbie Riverview 48192

Pete Hendricks - Home 885-4453  
Office - 961-7576

Francis - Kaloko 329-6881  
Facilities Manager - Greg Johnson

Nitta's HOME - 737-7167  
HEE

SCP 89-08 47-857 Kam Hwy  
HA 1673 B

Witham's Remote phone -

925-3528

then key in # to call  
then 511 in urgent.

TUES.  
1/3/89

Katherine Inobia - 638-8087  
Smaragdia bryanae

Lisa Utal - 988-4075

1/15/89 TAG 4972 "20" x 15")

1/3/89  
Letter in file on tags applied

Telecon Pete Hendricks at DAR Hilo - Hilo Bay  
~20" SL TMRS covering left eyes; 1/2 covering right eye.  
Beached along pebble shoreline - low tide.  
Lots of strength when handled. Swam off.

INFORMANT

Seen again and tags applied sent

JULIE MAXWELL  
3269 Bent Twig Lane  
Diamond Bar, CA  
91765

Dudley

933-3411

Cromwell 21 JAN open House

Seesturtles Havauna Bay - 1 juvenile w/ tumors  
Between Portlock & HAWAII MA

sent

DAVID Schricke  
1424 Whitney St. Apt 203  
Honolulu / 96822

Chun

955-0924

4 JAN 89 Choy & GHB to Kalia  
Wednesday Beach Park - Paiko Lagoon -

Used screen to scoop  
substrate <sup>and</sup> Halophila found  
in mounds west of pipes (almost  
at their seaward end).

Many small core and pipipi  
type snails seen.

Most cores scooped around  
algae (Syndia, Hydra & Scanthocora)  
were found to be dead.

Two bags of Halophila and  
rinsed bottom substrate  
sent to Murray Dailey  
w/ "O-TABS" inside.

2 jars of snails given  
to Bob Moffett for ID.

(Received in 24h by Murray Dailey)

① Minute bivalve *Lasea hawaiiensis* 5  
on holdfast of *Laurencia*

Oahu - West Beach

Haleiwa (Alii Beach)

kawailoa

Chun's Reef

Laniakea

kawela Bay

Makani Kai

Kahaluu

kuliouou / Portlock

Iriquois Pt / EWA

kahala Beach

Kaunani ~~Mokapu~~ CANAL

Kailua

Reef Runway

Hawaii

Halo

Moho

Punaluu

Kauai

Nukolii

kekaha

Sheraton

Mau

② Brackish  
water mollusc's

3 gastropodes

1 bivalve

- 6 → AQUATAPOXY (E.J. BARTELL'S SF liquid nails)  
 → Construction Adhesive  
 → Duct TAPE  
 → Zylorox Spray, as a "control"  
 → Silver Reflectant tape for cloth  
 → pencil - GRAPHITE MARKER

23 Dec 88 Reported by Elenor Dowling IN JAN.

~18" shell  
 Split on back - deep and clean. Reasonably fresh.  
 Hailua Beach - washed ashore.

Not seen by GHB or anyone.

GSA Rubber

- gloves
- cardboard boxes
- bleach
- plastic bags

106M



Conducted  
1/6/89

FRIDAY

# NECROPSIES A-2

7

w/B. Choy

Lisa Uthal

KAWAI 21516s ♀

~~12-05-88~~

S- 88.7; <sup>width =</sup> length 91.4 cm

PL- 70.0

TAIL 19.2

Head - 11.9

C<sub>1</sub> - 95.0 cm C<sub>2</sub> - 88.5 cm

min amputation of left ~~flippa~~ flippa (shank)

tumor on rt eye

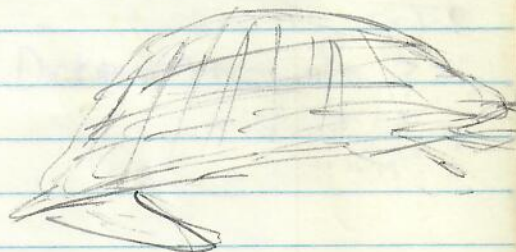
sm tmr left eye

5 medium tmrs on rt neck

2 tmrs on rt front flippers

some ~~leeches~~ amphipods / adult

no eggs



## Maith

blocking of glottis w/ massive numerous lobes of tumors

incredible tumor blocking

cut out hyoid bone (apparatus) blocking tumours attached (FROZEN)

Intestine - skinny - small - nearly empty

Stomach - empty - almost

Lots of internal yellow fat around intestine

## Ovaries

Starting to develop follicles - 3mm (largest) ova

no indication of previous laying (no stretch marks of ovaries)

## Liver

good inch of green fat under carapace  
→ sand inside  
· algae inside

excised head for sea life park

lot of bone deposit in shell - seems heavier than most

Cardinalis 6-89

A-2  
Necropsies

9

12-22 Kaulua JR4.

Decomposed carapace - splitting at top - advanced decomp.  
great smell !!

S - 40.7

W - 34.4

intestines - messy - decomposed - sand inside  
stomach - Codium

12-21 Kaulua Beach Pavilion Dickinson

♀ (?)  
? ? ? ?  
? ? ? ?  
? ? ? ?

↙ S x W  
41.1 33.9

N - 40.6

distinctive light brown shell

Head - 6.9

C<sub>1</sub> - 43.5

C<sub>2</sub> - 39.5

Plastron - 33.5

Tail - ~5.5

SAVED  
FOR SCIENTIFIC  
PURPOSES !!

GI tract - medium fill - stomach  
Amanita  
Codium

Intestine - moderate fill

10

A-2  
1-6-89 NECROPSIES

Cromwell Turtle

♀

1:05 NM1 OFFSHORE SO. of

Sand Island, Oahu

21° 17.1 N ; 157° 53.4 W

Found dead adrift

12-8-88

0830 hrs.

50.1 cm CL

TC-88-09

massive tumour - all fleshy surfaces

leech eggs ventral

baracle

PL 39.7 W

Tail 8.5

head 8.3

S - 50.2

Snout 41.0

left side of head - tumour out of scale

Curved Length - 52.5

" width 47.5

Thin, emaciated plastron

full stomach - Codium

? unknown sp. red filamentous

? unknown sp.

very thin fat under carapace

small liver, intestine - devoid of food

VA Flight 180 9:30 AM 17 JAN

5 days 20th - 25th

ALAMO 800-327-9633

#134.99 - Beretta #168.00  
+ #9 collision

# est  
250 for car

3238656  
conf. no.

TOM TUCKER ENGINEER = 750-7171

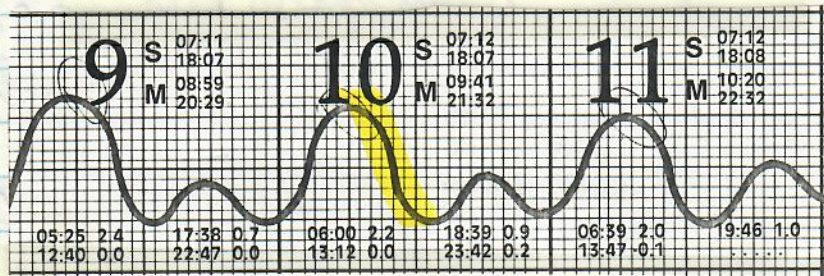
AS  
per  
Larry

~~received~~

American Fisheries Service  
" May #4 1988  
Service Law and the Hudson River  
Powerplant "

Patsy - Liberty House = 945-5465

Need - Nighttime sampling at this site!



Wednesday  
~ 11 AM

Jan 11, 1989

BC & GIB drive to KAWAIKI Beach Park, across from Hawaii Loa Ridge. Heavy rain earlier.

Walked out on shallow reef flat. Hypnea very abundant, along w/ Acanthopora & some Sargridia.

Collected a bucketfull, for exam in A-2. NO snails found! While in water, we noted branch-like animal that looked just like Hypnea. But none found in A-2.

↓ C. APRELLA SCAURA

Identified by Bill Cook  
"Common in Hawaii"

SLP 1-12-89 Thurs.

Observation of remaining marks:

① Male - 2 - "2's" central scutes

② ♀ 1 - foam (partly off)

③ ♂ "5" "5" "5" foam

1 2 2 ← "2's (partly)

④ Small dark (reflectant <sup>from</sup>) - 1 - foam

⑤ Aluminum - on 1st central (from 2 weeks ago)

⑥ ♀ Kahalo/HMB 1 - rectagle of alum.

⑦ Hawk 2 partial "2's".  
2 round reflectant.⑧ ♀ Two sites with some foam  
(1st central & 2nd lateral)⑨ Small ♂ (giant tail) -  
Rect. aluminum 3rd centralMNW  
762

15701?

AZHATA

10

↑

SLP, (continued), 1/12/89

Next TIME - Measure

⑩ ♂ - | - foam

⑪ ♂ - Small spot of Caulerps  
- "K" on right only

⑫ ♀ w/ Tail  
Towers Small sects of  
Homonium  
TAG 2051 left

Small in Reef Tank  
(from a distance) = 3 silvery circles  
- yellow (foam) left  
STREA (dense)

Barry applied spray paint

Gray Flat white > ZYLONOTE

Gray white > MIPOLAC

AMERITONE

Caprella collection sent to Bill Cooke for ID  
by Barry C/ky  
*Hypnea musciformis*

ID'ed by  
Bill Cooke  
"Common in  
Hawaii"  
CAPRELLA  
SCAUERA



CAJOLLA (619) 546-7000  
CAB

United Airlines (Hono) 547-2211

Minolac #3 Coop tank turtle Thick	Trentaen-3 left Dorsal 2's ridge
Reel Tank Turtle Looks like reflector still on	

Minolac 3R + 4L Aquarium Turtle	Speed enamel DL & 2R light female
---------------------------------------	---

Zylo tobe

Speed enamel white  
#1 Large female (±)  
" <sup>sm</sup> Male

#2 speed enamel  
Gray Male w/ ~~feather~~ <sup>feather</sup>

Minolac
---------

#3 white heavy  
#4 Gray light  
Same female  
#3 & #4 Egg layer

TAKEN TO Steinhart Aquarium 1/17/89

16 JANUARY 1989 Monday

2 CAPTIVE REARED TURTLES - 1988 hatch

letter/data sent in file

	#1	#2
S-	11.9 x 10.2	11.1 x 9.1
C-	12.7 x 11.5	12.0 x 10.6
PL	10.0	9.3
Head	2.5	2.4

measured & photoed w/GCB & PTGB

Recommend

INTERVIEW

Write for Doc. on Steinhart wall

Articles for Peter

Pig. plastron +

Send measurements + Request they measure + weigh.

Receive <sup>copy of</sup> I.T.I.S.O.J from him.

SAN FRANCISCO

LECTURES to CALIF. ACADEMY OF SCIENCES

18th Wed. 2 PM

19th Thurs. 7:30 PM

17-24 JANUARY 1989

TUEZ-

20th Friday -> S.F. to L.A. ALAMO TO YUCCA

21st SAT. YUCCA -> San Diego South Bay Power Plant.

BOB DEANS

89

San Diego Power & Gas

17

21 JAN. SAT.

South Bay Power Plant

Jacobsen  
ENVIR. COOR.

→ (619) 427-7022

990 Bay Blvd.

Chula Vista 92011

Visited 1:25pm - 3:05pm - Photos

heavy overcast, but warm air ~ 68°F

\*

PAUL Rick Rode - previously telephoned at above tel. #.

Shift Supervisor Dick KRASSEN

Sec. Guard - "ERNEST"

worked spoken to "worked at plant since 79 - Terry HINES

"Protected" sign need (?)

~ 650 Megawatt (?)

Tel. follow-up (619)

Fisherman

given sighting cards  
my card

\* TOM LEEPER

2 brochures

" Barn & raised San Diego - reportedly fishes discharge once a week. all year round. Sees turtles in all months. up to 5.

More in El Niño year (1983).

Has seen basking on mud - low tide. Possibly 2 species.

Feed during (El Niño) on pelagic red "rag" (crustacea). Fishermen scoop for bait way out.

Paul Rick Rode  
Shift Supervisor

21 JAN 89

x Need - send a few toys.

Tel. first. <sup>done</sup>

+ to Carlsbad Plant. TIME

cont.

Saw 3, possibly 4 turtles -

7 large adults (not a green?)

1-2 juvenile greens

1 (subadult?) 65cm (♀?)  
(very pointed shell).5 discharge sites - two outside  
bridge, 3 inside.Temp. ~ 19° water, according to  
my small thermometer.  
Many Gulls. Reported "mullet", many  
fish, seals, rays.Turtles very active. Possibly  
due to our presence. Turtles  
circled out and around, often.  
Mostly present in discharge area -  
strong surges. Difficult to  
understand - "why so much  
movement!?" Feeding?Very reported scuba cleaners of  
grotes found. Small turtle  
pinned against - rescued and  
let go.  
Green algae present - also dumpster  
for algae. Save UVA?  
Small pile of copper scale waste powder?~~Need~~Read  
all of  
Thesis  
Small

Adoption Associates

6420 Wilshire Bl  
LA

Felice Webster & Susan Wasseman  
Law Partnership Ltd.

1-800-62-ADOPT (213)655-0500

Adoption Services - San Bernardino County  
"State Licensed" 494 N E St.

San Bernardino

(714)387-5220

Cook & Linden - Private Adoptions  
Beverly Hills

(213)655-2611

George Maricic - Attorney At Law  
Ontario (714)983-9602  
800-451-0220

22 JAN 89 TO CARLSBAD

SDG & E

931-7225

ENCINA Power PLANT

See

cm 25 - "Bar racks at Agua Hedionda  
"Elaine Carlin Lagoon  
Lockheed Corp.

tel. cm 30 - "fish. tech."  
tel. cm 31 - <sup>carlsbad</sup> Susan Vergne SDG & E Co. biologist"  
Ponto Beach - Sandy Vas - resident  
fisherman Bill Vas

EEZ Grass

cm 42 S. Carlsbad

cc35 - 2 miles offshore 2 miles south of ENCINAS PLANT

U32 - Encinas bar racks  
"bar racks filter water drawn in" - Elaine Carlin

480 San Diego  
940 Encina

→ U36 19 Aug 79 ENCINA  
five solbs bar racks  
Metal ID tag - Elaine Carlin  
fisherman

U37 - Jetty on the south shore of Agua Hedionda Lagoon  
"John Bunting" fisherman

Tel. "

1954 First Unit

1978 - 5th unit

U38 - MR. Dave Rogers  
Maintenance Supervisor ENCINA  
\* Elaine Carlin

Harry Steehr  
Plant Manager

U41 - Carlsbad Canyon (1980)  
fisherman Joel Hughes oceanside  
"Turtle Boy"

U45 - ENCINA 3/4 mile offshore

net  
Carlin  
Johnston  
years  
well  
Fos

lobster in hot water - nothing now. terminated a few years ago.

# San Gabriel River

Cm 35

~~SDSU~~  
~~(619) 226-3870~~

San Diego →  
Marine Science  
Program

Seaworld  
Research  
Institute  
3/20 telecon  
said to call

Peter Dutton

Donna McDonald

Richard Ford, Dept. Biol, SDSU  
~~Dept. Biol.~~ concerning  
entrainment  
of Fish

telecon  
1/27/89

DON KEN

Cc 22 - Cabrillo Beach Museum  
U26 - Cabrillo Beach, San Pedro

Need -  
Full Thesis

Cm 38 - El Segundo

SAN Gabriel River

U53  
10/80

Seal Beach Jetty - San  
Gabriel River

Michelle & Gary Shannon

Call

U65

2 miles up San Gabriel River  
8/82 (at Westminster Blvd), Seal Beach.  
where 2 fault's discharge warm water

Tel. Terry Howe (whittier)  
(see next page)

22

1/23/89

Monday

067 -

San Gabriel River  
12/82 just inland of  
Pac. Coast Hwy Bridge

United =  
637-  
6233  
Long Beach

3 discharges <sup>ENST side</sup> Haynes Steam Plant <sup>3 discharges</sup>  
City of LA Edison = West Side

Dept of Water & Power

775-192-  
07

(213) 481-4211  
431-2578

"Environmental  
Coordinator"  
7.1969  
Haynes Gen Station

Golden Sails Hotel  
6285 E. Pacific Coast Hwy  
Long Beach

(Marina & Canal bridge right next  
to it)

24 JAN 89 UA FL. 107

15B Seat + clerk 1:15 pm

PAN AM reservation  
NAME = Linda Graham 7:51 pm  
6611 Berry Ave  
Buena Park, 90620

EXAMINE FOR snails  
at Sleeping on

Meeting w/ Murray

1/24  
TUES Morning

Note: relate fresh water snails  
(family) serving as intermediate  
host to freshwater turtles to possible  
marine counterparts.

MNL = Note = Title: (West Coast Sea  
to fulfill C.A.S. Turtles



Golden  
Sails  
Hotel  
6285 E. PCH

STATIONWIDE 6415  
E. Pacific Coast 23  
Hwy 598-9507

JAN.

24, Return from LA depart 4:15pm  
89 / UA FL 107 - arrive  
7:30pm.

Attended  
S.F. GAS.  
lecture

Ms. Rosemary A. BABCOCK  
2511 ALVIN ST.  
Mountain View, CA  
94043

TAGS LEFT AT ENCINA  
POWER PLANT =  
X-26 thru X-29 (4 total)  
Mr. Stoehr

HARRY B. STOEHR, P.E.  
MANAGER-ENCINA POWER PLANT  
(619) 438-2500



**San Diego Gas & Electric**  
4600 CARLSBAD BOULEVARD  
CARLSBAD, CA 92008

24

Tel. call while I was in Calif.

Report PAPA'A 1/24/89

TAG -

# → 5336

LARRY Mendocca

Commissioned a study to Pete Lutz.

1/25/88 Tillison's Rubber - phone call, wanting me to "put findings in writing to them". Instead, I offered to edit whatever they write and send to me.

1/25 Vicki KUNISAKI - 1st Grade Teacher at Pope Elementary School. Looking for a lecturer.

1/25 wed. Barry Collected at Haleiwa / Alii Beach.

Hydra etc, Snails found - alive in A-2.

Sargassum collected that had snails - but subsequently died - airpump went out.

SEA LIFE

THANK NOT DRAINED

SAM OBSERVATIONS OF TURTLES IN THE WATER;

Wed.

Need Rental Car Special =  
ALOHA 836-1111

KAWAI = 245-253691

1 FEB 89 → FL. 205 Dep. 6:45 A.M. TO KAWAI  
ALAMO - 954 DMP \$12.95 +  
→ FL. 224 Dep. 3:05 p.m. TO Honolulu

Don Moriarty = 828-1414

SEA LIFE PARK

Turtle Lagoon

11/19/89

Hawksbill - one reflector circle Thurs.

- traces of white paint

Female - small piece of Al tape

Male - dorsal scutes white to's trace

- side scutes traces of 3's

Egg layer - traces of white paint

Male - traces of grey paint

large female - traces of foam

Reef tank turtle =

large male - traces of foam

large female - traces of white

Aquarium turtle -

large female - remnant foam 5

White from 1/12, or earlier?

8 AM OBSERVATIONS OF TURTLES IN THE WATER; DRAINED

Reef tank turtle

Al-tape spot

Reflector spot

foam 1

observations by B. Choy

1/26/89 Thurs.

observations of remaining

marks:

Reef Tank Turtle =



Right reflect

~~white~~ Alum. 1/4 pebbled sand

- 1) Large Male 2 2 2 white ~~ice~~ Big foam streak left
- 2) Hawksbill Trace of white (Ace) left and right lat.
- 3) Egg lay ♀ 2 traces on right (Ace)
- 4) Big Male - Foam - big streaks left, right and center
- 5) Male - white on right (Ace)
- 6) Big ♀ - foam - trace on left
- 7) Aquarium turtle - foam 1<sup>st</sup> lat, Big streaks left & right + 3 central

1/26/89

APPLICATIONS

Reef TANK turtle seems noticeably larger:

8:30-845

S - 32.7 x 26.7  
C - 35.2 x 31.8

- NBBB  
Calculate growth rates and compare with front flipperless turtle at Kewalo on P. 100

	rope		
2 silver	2 si	2 si	
oed foam	oed Alum	oed reflect	
rope	3 gold	rope	
3 gold		3 gold	

Applications

Bottom TAPE

LAGOON

- 1) Big ♂ 3 & 4 lats. = 4 4 4 4
- 2) Reef tank juve <sup>red</sup> 2<sup>nd</sup> lats = 4 4  
4<sup>th</sup> cent = 4  
3<sup>rd</sup> lats seal all 1 1
- 3) Big ♀ 4 4 4
- 4) Big ♀ 3 silver " " 2 gold " "

28 "Seal-all" peeling right after filling of Lagoon  
note-

- 5) ♂ ♂ (w Ace "25") 2 gold "35"  
2 silver "25"
- 6) Aquarium turtle 3 gold "35"  
2 silver "25"
- 7) ♂ 2 silver "25"
- 8) ♀ EGG / Fryer - 2 "45" <sup>Age 3rd & 4th</sup> centrals
- 9) ♂ 3 "45" 1 st central  
& 1st laterals

→ Sunny - good drying time ~ 20 MIN.  
Jcleared with Acetone rog.

Need - scrubber <sup>GSA</sup>  
- photo of red turtle - Growth lines

SLP  
- formalin jar for TMR  
- Frozen skull for education SLP  
- O - TABS

Newly shrunk  
to be a "tomor"  
to

TH  
N  
New  
No  
H  
TR  
6th  
Mo  
A

John Ford Note to Murray STRAND  
leeches 29  
GHB-PC? NIO?  
Tallahassee → ~~Call~~  
United

1/26 Thurs. Brooks Tamaye → 18 3/4" SL  
Education Specialist DAR Mavi  
Memo in file Dead turtle to be shipped tomorrow, picked up by J. Choy  
1/23/89 PAIA PARK

Telecom David Rose - 966-6611

UH Hilo Mof Junior  
Box 10805  
Hilo, HI 96721  
Met at Kiholo Bay 3/2/89

~~Volcano~~  
FL 64 405pm  
Hilo TRIP TUES 2/21 - 2/23/89  
ALOHHA Tel. 836-1111  
Thurs FL 355 1:55pm  
Alamo Reser.  
Thru. ALOHA -  
CALL TO Recheck.

Not used  
United Airlines - 5472211  
FL 103/6 7:05pm 11:49am Chicago  
FL 923 9:25pm 4:25pm Denver  
TRISH

6th MONDAY  
ARRIVE AFTERNOON of 7th  
Meeting 8th 9th 10th Depart 11th SAT.

NW AIRLINES 955-2255  
ORLANDO  
Pensacola  
TAMPA yes

1/27/89  
Friday

ROXANNE CLARKE 239-7024  
48-218 Kani Hwy  
Bony remains of a turtle picked  
up by Babry.

2 - about week or two after the one -  
2 more about ↓  
Decomposed ribs left head 45cm  
1 more larger  
5 dead turtles in two months  
2 large about two weeks ago  
Mouth of Waiohole over

MOP referral by Sean Hallocke

1/30/89  
Mon. ~~sent~~  
Georgia Merrill  
430 W. Kawili  
Apt 15D, HILO 96720

Pacific  
Discovery  
8/89  
2-2 photos @ green head orig.  
3 photos @

Skill Project involving Tsunami  
effects of sea turtles

① olive ridley dup ③ hatching against tank  
orig  
Janette COX slides (415) 750-7117  
all slides returned

1/30/89  
Mon. Telecon  
Walter Guild

Requested W. beach  
info - sent  
Habitat report  
+ refer to

21-291 KALAELOA BLVD  
EWA BEACH, HI 96707  
Nitta  
ACE

Schedule  
Molokai  
K

1/30  
1/31  
2/1



Schedule  
McLain  
Kaiser

"Training" → ENCOURAGEMENT BY IZ

5% down for 4 yrs, personnel related.

telecon

1/30/89  
Monday

AIME, CEE

(202) 429-5609

TRADE Spec. Group

called last week

Not counted as a stranding  
536-9940

Jim telecon Matsu moto (30")

1/26

left side head, behind eye

Thurs. (1/19)

Something through neck

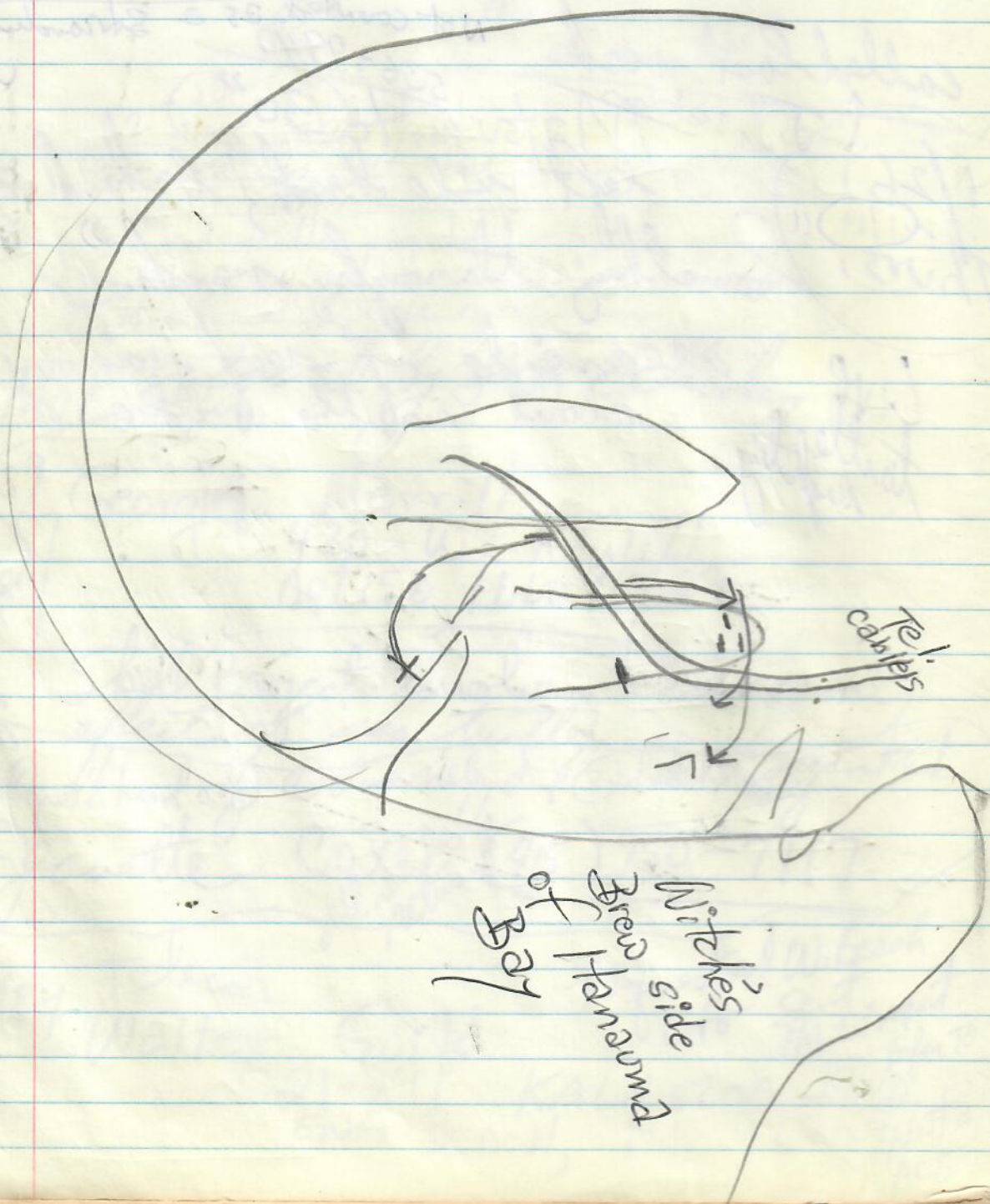
oceanside of reef runway  
about in the middle of

live  
turtle  
sighting

1/30  
Mon

DAVID Schrichte (INTERVIEW)

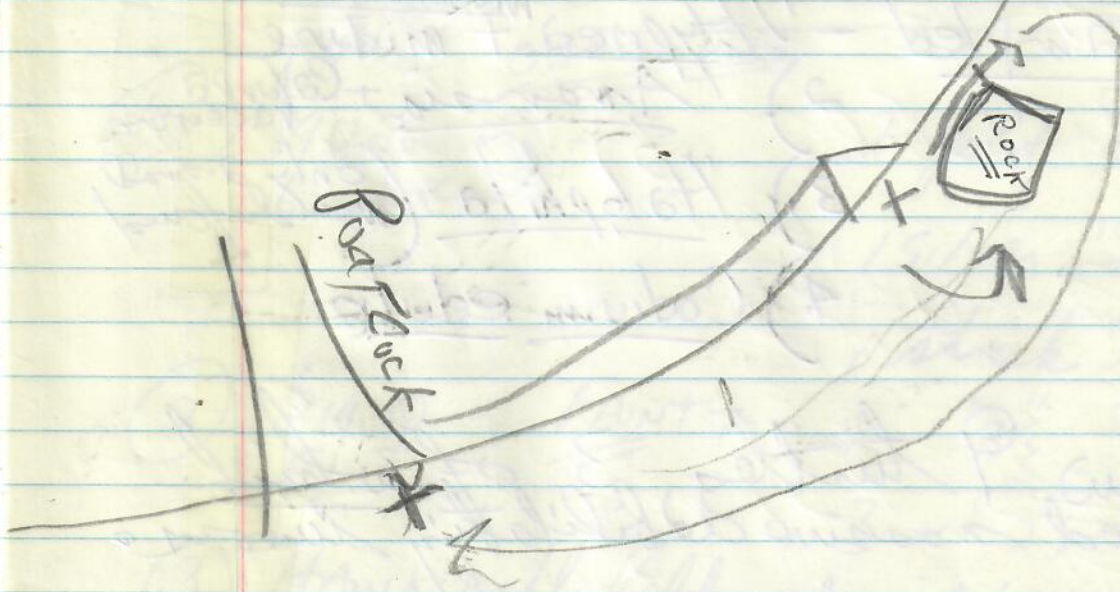
LR  
89-  
—



L. Rowell  
July 8  
89-050

1/30 DAVID  
SCHRICHTE  
INTERVIEW

33



Kimber-home (808) 969-3375  
 WGG-263-3611



Dr. Brooks - 924-1450  
 (Hope  
 Becky)  
 The Palms

1/31/89 KAHALA GB&C  
 Beach Park BC  
 TUES

"Kahala kai" <sup>CAHAMA</sup> anchored off cement  
 "jetty"  
 Arrive ~ 10 AM.

- Sampled - 1) Hypnea <sup>Musciformis</sup> + mixture  
 2) Amansia + Caprea <sup>rademosa</sup>  
 3) Halophila (only 2 snails found)  
 4) Codium edule

Saw 9 turtles, 3 of which  
 had massive debilitating tumors.

Barry examined all algae in A-2.  
 Only 2 snails found... both on  
Amansia.

1 FEB 89 Kilauea Pt. Lecture  
 Wednesday

Photo of "A" Cagoon West Beach

visit w/ Don Heacock & Wade Ishikawa  
 TO PAPAIAU PAUGH

Marymary Mendosa -  
 Recently 1/26/89 saw female 5336 right - clean  
 numbers accurately read.  
 I collected Pterodroma from boulders.

steel "cement" <sup>weed</sup> Shoe Polish / car wax SLP  
 "Red Hawk" still seen 2-2-89  
Observations

- ① Aquarium - 2 gold "35"  
 Juvenile 1 silver "2"
- ② Big ♀ FANT- 1 streak "seal" left  
 2 "35"  
 3 - "25"
- ③ Hawk's bill left and right spots
- ④ ♂ FANT- of white "Ace paint"  
 2 "25"
- ⑤ ♂ 4 white "Ace" partial "25"  
 and FANT+ = 2 gold "35", 1 silver "2"

1 FEB 89  
Wednesday

Kilares Pt. Lecture

Photo of "A" Cagoon West Beach

visit w/ Don Heacock & Wade Ishikawa

TO PAPAIA PLANT

Mary Mendosa -

recently female

5336

1/26/89

saw right - clean

numbers accurately read. I collected Pterochia from boulders.

steel "cement"

weed / car wash  
Shoe Polish

SLP

"Red Hawk"

still seen 2-2-89

Observations

- ① Aquarium - 2 gold "35", 1 silver "2"
- ② Big ♀ Faint - 1 streak "seal" left, 2 "35", 3 - "25"
- ③ Hawkbill left and right spots
- ④ ♂ Faint - of white "Ace paint", 2 "25"
- ⑤ ♂ 4 white "Ace" partial "25" and Faint+ = 2 gold "35", 1 silver "2"

Observations

2-2-89 Thurs

SLP

⑥ ♂ spot of MDR rope seal, spot of white Ice

⑦ ♀ smears of foam

TURTLE LAGOON

Application 2-2-89

① ♀ "Liq. NAILS" Finger smears

2-65 Right Liq. NAILS  
left

② ♂ 5 Liq. NAILS

③ Hawksbill 3 Liq. NAILS fore shell

④ ♂ 4 Liq. NAILS centrals

Bleach → "3"

Brand = Blue

⑤ ♂ 2 "3"

put on by

⑥ ♂ 2 "3"

B.K.C.

⑦ ♀ 2 "3"

GLP

2-2-89

new additions

⑧ liquid steel ♂ APPLICATIONS:  
♀ 3 "8s"

⑨ Reef tank- juvenile 8 "8s"

⑩ ♀ egg lay 3 "8s"

Rubberized Non skid

⑪ 1 circle ↓ (w/3 ~~19~~ 19 NAILS)

⑫ Big ♀ 1 circle

⑬ ♀ (w/ foam) 1 circle

Reef TANK  
~~Myriam~~ Juvenils (remaining)

3 silver "2s"

3 gold "3s" (portions rubbed off)

1 circle reflectant

1 circle aluminum tape (bent back)

1 streak foam  
New Application

3 "4s" Ace white



2-2-89  
Thursday

Advanced decomposed  
All white 50% scales  
messy

Neck tumors  
+ Massive decomposed  
TMR on flippers, no skin on flippers

See Form in file.

2 photos - orange paint sprayed.

Says  
rollas  
S.C.M.F.

CCL - ~~strong~~ 90cm

EAST OF  
Halema  
Beach Park

Levent block chunk and  
sand put on carcass -  
dugged up high above high  
tide. Reportedly only washed  
in 2/1/88

→ Ulya sample collected on limestone  
outcrop right near turtle.

2-1-89 Barry collected at KULOPOU -  
- Helophis snail picked right off  
- Lymnaea (snails also). Several kinds.  
Sent to MURRAY 2-1 wed - Express Mail -

degrade  
study

S

"kok

A

Am/Ta

KU

GOLF  
CONFIDENTIAL

NO  
31

degrade  
study

rubber bands  
ballons  
prophetic

VIA  
HAZEL

4th grader at  
Aikahi Elementary  
MAGDALENA MERCADO

2537-A BINGHAM WAY  
KAILUA 9674

jet ski / para sail  
operator

sent

Hank Chapin

2052 Mott-Smith Dr  
Honolulu, HI 96822

W. Oahu College

536-5650 → home

456-5921 → work

SF171

"Koko Ocean Sports" - 263-4780

sent

Ed Underwood  
1470 ULUHALA DRIVE  
KAILUA, HI 96734

sent / Telecom

Jack LUNDGREN  
6375-B  
KAPAA, KAUAI

CAVICHY  
Kauai Sierra Club

POO Rd.  
KAUAI, HI 96746

GOLF COURSE  
AND RESORT

#15 TAMPA 98.99  
JACKSONVILLE 103.99

124.99  
144 Berelott

CONFIRM.

NO  
3440696

ALAMO = 800-327-9633

Aunt  
3/24/89

INTERNATIONAL SHARK ATTACK  
FILE - DR. GEORGE BURGESS  
FLORIDA MUSEUM OF NAT. HISTORY  
UNIV. FLORIDA, GAINESVILLE/FL 326  
Tel. (904) 392-1721

7 FEB 89 WEST BEACH

See report

INVENTORY OF GEAR IN AD

# Nets	size	cond
2	60x8	good
2	?	good
1	60x16	good
1	65x4	good
1	60x5	good
1	?	No lead
1	?	wood floats

Anchor ties 7  
 Anchors w/chain 7  
 Floats 6

TITANIUM TAGS  
 TAGS returned by Dick Wass FWS  
 15010 broken - discarded  
 15,014 - bent - discarded  
 15,009  
 15,013  
 15,011  
 15,012  
 6 Total  
 good - saved for future use

7 FEB 89 TUESDAY WEST BEACH

See narrative report in file.

Algae (*Hypnea*, *Sargassum* & *Heracodia*) collected from upper beach and shipped to Murray along with snails (larger ones not an algae) collected higher on somewhat dry beach.

AUTO  
ACCESS  
CAL  
DAVID  
CAM

+  
TIM  
ADULTS  
GENEPE

836-

TO  
KON

Need  
Go

~~Wed~~ TO Genl  
2/7/89 James Mahokey - 239-9771 necessary  
Tues 47-861 KAH Hwy. p. 68  
(WAHOLE) Karohe 96744

Genl  
Called Mayor's info office who referred to 548-2211 who referred to 943-1221.

2/8  
Wed Pick-up by me Leeches, leech eggs  
Verna-NahaULU (TNRs + Fishline) + down with.

Found dead on mud flats - piers  
(Right next to Uncle Hees' property)  
Barry's

AUTO ACCESS?  
call  
DAVID -  
CAMP SITE?

- CALL MR. MENDGA - schedule KAWAI
- KAHALA OFFSHORE DIVE again - collect Algae at night - MOKAPU
- CALL ED UNDERWOOD
- ~~2/13 Mon:~~ DIVE WEST BEACH <sup>weights;</sup> <sub>VEHICLE; ACCESS</sub>
- PROPOSE "BLIND-TRUST"
- 90 COASTLINE TO BE UNNATURAL.

+ TIM  
ADULTS?  
Cenepede

Balazs & Choy

836-1111

ACONHA - March 1st wed.  
1059 AM FL90 1129 AM

Need  
Net  
Mending  
gears

TO  
KONA

March 3rd ~~FRIDAY~~  
3:30pm → 4:04pm  
FL 281

Need  
Gov.  
Prop.  
Sign

Dollar \$19.89 day requested hatch back  
926 ~~200~~ <sup>with</sup> 877282

Permission to go to W. Beach:

BRIAN MINAAI - West Beach Estates  
941-1533

Budget = \$20  
conf. no. 595/10859

WATER 2-8-89  
FULL IN LAGOON  
Wed evening

OBSERVATIONS:

① ♂ Two circular Lig, NAICS

② ♂ Spots of Ace white

Reef tank observations  
2-16-89

Turtle in Reef tank  
from a distance

3 Ace 4's but scratched

Alum. tape (on 3rd cent.)

Reflect. sign (on 2nd Lat Right)

Mod to faint "3" (graffiti pen)

Full left side not seen  
4-white shoe polish

4- EPOXY TAN

2 large red float (GSA)

2 small 3M reflect

Applications: 2-8-89

Nothing but  
a few  
specks of  
white  
? WAS SCRUBBED BY  
STEVE SAY NO  
GROWING

Scrubbed algae off ♀ out back  
w/ "two" at tail. Looks better,  
probably because not being bitten now

2 ① muffer seal

3 ① lig. nails

2 ① liquid steep B/K

3 ① seal-all

2 2A permates

house reflect. "H" & (larger) "2" (all 2/16)

3 "3" Ace hardware white Gunk-Dry

9 FEB 89 Thursday

Dear Mr.

45

# WEST BEACH

## TRIP Report

6:30  $\rightarrow$

seen 6 2 1 Photos  
seen in lagoon at surface = 2

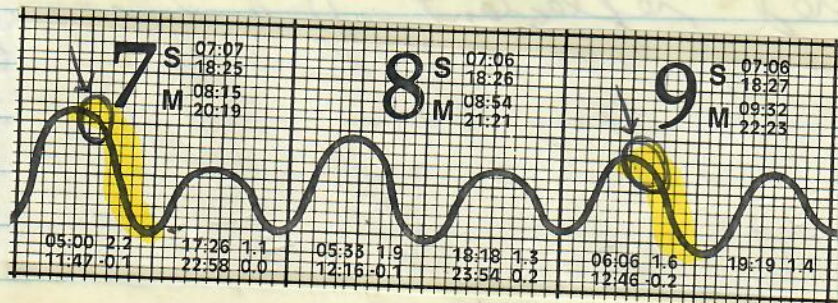
8 - 9:15 AM Lagoon scrub

1 juv east pocket.

much - good to "no" visibility.

W

2 kinds of large snails collected





9 FEB 89 Thursday

Dear Mr.

45

WEST BEACH

TRIP Report

6:30 AM

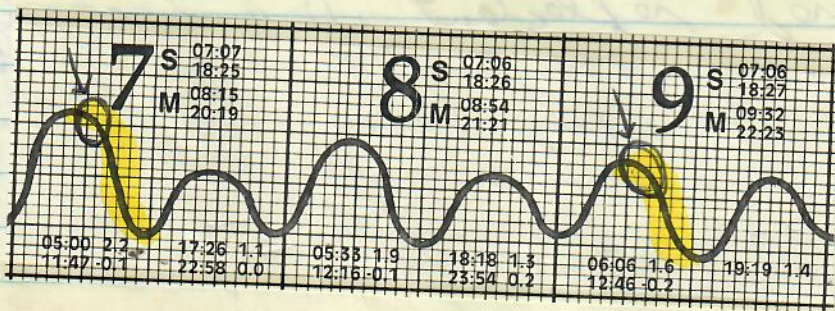
seen 6 2 1 Photos  
seen in lagoon at surface = 2

8 - 9:15 AM Lagoon scuba

1 juv east pocket.

much - good to "no" visibility.

2 kinds of large snails collected



WATER 2-8-89  
FULL IN LAGOON  
Wed evening

OBSERVATIONS:

① ♂ Two circular Lig. NAILS

② ♂ Spots of Ace white

Reef tank observations  
2-16-89

Turtle in Reef tank  
from a distance

3 Ace 4's but scratched

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Reflect. sign (on 2nd Lat Right)

Mod to faint "3" (graffiti pen)

Full left side not seen  
4-white shoe polish

Nothing but  
a few  
specks of  
white  
3 WAS SCRUBBED BY  
FIRST GLASSING  
STEVE SAY NO

Applications: 2-8-89  
4- EPOXY TAN  
2 Crege red flat  
2 Small 3M reflect

Scrubbed algae off ♀ out back  
w/ "two" at tail. Looks better  
probably because not being bitten now

2 ① muffer seal

3 ① lig. nails

2 ① liquid steep B/K

3 ① seal all

2 2A permates

house reflect. "H" & (larger) "2" (old)

3 "3" Ace hardware White Gunk-Dry

FZ 80 TO MSP 7:15pm 6 MARCH

MONDAY

→ (619) 741-0150  
Jony Demaster Home

2/10 Friday Keith Hunnington - Roosevelt HS  
"Students work/observe for a day"

Robbie Hind - Parker Ranch  
PAUL Mitchell 885-7311  
(HAIR CARE Products)

SLPARK

2-16-89  
Thurs

OBSERVATIONS =

Few specks of white in Lagoon  
(Not drained)

OBSERVATIONS

Single ♀ in circular out back =

ON 3 "3" Ace white

" 4 red reflectant

~~4~~ shoe polish - white (all off w/ light scrub)

# 4 epoxy tan spray (1 off w/ light scrub)

" 2 lg. nails (eye gone) note - lefts off

ON 2 Lig steel blk.

on 2 Muffler patch

2-16

APPLICATIONS :

NEW MARKS

- Practice

47

- Ease of Application  
to APPLICATION

- MIN. Dry Time

- Low disturbance

Thursday

"3" fume R lat <sup>2nd</sup>

"1" " last central

1 (green duct tape) <sup>2nd</sup> central

1 (lay) muffer patch 3 central

"6" BIK "DYER" boat letter 4<sup>th</sup> lateral

"4" white

Pink lipstick <sup>1st</sup> 3 lat

Blue " <sup>1st</sup> 3 lat

3 (lay) amertone olive  
house paint M VIII

need-  
photos w/flash

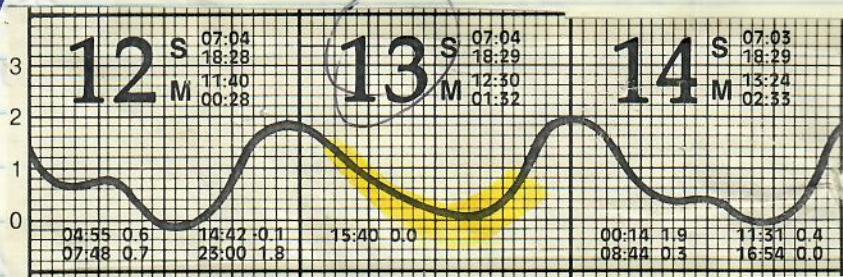
done

~~need Silver cloth tape~~

48

13 FEB 89  
MONDAY

KAWAINUI CANAL, KAILUA BAY



4:45 - 9:00 pm (4:15<sup>hr</sup> min)  
parallel to channel -  
Kanaoia side of canal.

No turtles seen, no captured.  
Collected bivalves; mixed algae  
at 9 pm.

2-14 Janet Lorimer - author  
of children's book  
involving sea turtles

2/13 Five floating turtle off Kukuila -  
Mon. DOCAFE + Wade. Dead the Hono  
following day. Shipped Hono  
picked up 2-16-89

2/14 Telecon Wendy McCallister,  
DHM Planners  
Honolulu Hydroelectric

10<sup>AM</sup> - 3:30 pm

KANEOTE BAY

see  
Tide  
chart  
p. 63

15 FEB 89 49  
Wed.

52.3 PL  
10 cm TAIL

"TWIN  
CHOC  
REEF"

~ 11 AM

ore medium  
one small  
TMPS  
on eyes

S - 64.5 x 53

C - 69 x 67

TAGS -

Y-51; Y-52; Y-53

23 PHOTOS

"TWIN  
CHOC  
REEF"

~ 11 AM

clean/healthy looking  
C - 54 x 49

S - 50.4 x 40.2

40.5 - PL

Y-54, Y-55

11 cm TAIL

Y-56

Chelonibia sampled alive w/ same  
scute underneath.

need  
TIDE  
calendar

Snail from  
Halophila &  
Chelonibia

sent to  
Murray  
2/21/89

50 ALMOST NO WIND - GLASSY

15 FEB. 89  
Wed.

10:30 - ~ 11:30 AM TWIN  
SIGHTINGS Reef -

3 ADULTS

2 SUBADULTS (1 CAPTURED - TUMORS; 1 SEEN w/TUMORS)

8 JUVENILES (1 CAPTURED NO TUMORS -)

13 TOTAL

2:30 - ~ 3:15 PM

2 ADULTS (1 CAPTURED - w/TUMORS)

3 SUBADULTS

5 JUVENILE

10

Channel cut to the north of  
Chivaman's HAT:  
Gill net set more inland - 2-300'?

Used small scuba bottle - Turbif & had to  
see the bottom.

Barry motored boat behind we -  
started outside and swam in

Saw 4 small juveniles, all  
on bottom resting under outcrops.

1 of 4 had small tumors on eyes.

need - throw net. INTO  
SLP - release turtles? Ford?

15 FEB 89 51  
WED.

Surveyed Halophila beds to the west of Sand Bar island. Major visitor wind surf -- porton-boat commercial entity.

Saw possibly 8 small juveniles - could see them feeding. Jumped on, and touched 3, but none caught.

Collected smids by picking them off leaves. Surface water very warm from sunshine.

Captured at ~3pm "TWIN"  
"CHOY REEF"

MASSIVE TUMORS BOTH EYES; BOTH FRONT FLIPPERS (AXIAL), & CLOACA (4 ADULT LEECHES PRESERVED FROM TUMOR)  
→ MATURING MALE

Y-57; Y-58; Y-60; Y-61 (Y-58 BAD - NOT APPLIED)

Tail - 29cm. PL → 66.5cm

S - 86.6<sup>cm</sup> x 64.0

C - 94 x 84.5



2-17-89  
FRIDAYMeasuring changes: How much is enough?  
Tim Gerrodette Seminars

"Relative indices of abundance"

2-17-89 Meeting w/ McDermord; Fefes; Craig; +  
FRIDAY They need to meet w/ Jerry

Chaminade Univ

sent

→

Debra Calbero  
 1365 KAMINAKA Drive  
 Apt 203 PO  
 Honolulu, HI 96816  
 732-7808-Dom  
 735-4750 Lab

A-2 Necropsy 17 FEB 89

53

David Schrichte  
Debra Calbero  
BKC

pl ~~45~~ 51.5  
head width 9.5  
tail 14.5  
sl 43.5  
SN 51.0  
Cl 61.0  
CW 62.5

2-13-89

KAWA

sm tumor vt eye  
massive tumor vt shoulder  
sm. tum. dorsal vt flipper (front) - distal  
numerous clusters of leeches  
sm. tum 9th marginal left  
vt. hind flip sm. tum. dorsal distal  
nearly 100% fouling growth on carapace  
coralline algae, 2 kinds green algae (scum  
1000-2000

- estimate thousands of leeches on turtle  
Some previously preserved for ID  
est. 50% egg cases on ventral

Numerous huge white nodules in lungs

- 1 nodule size of G.B. fist  
Several are fluid filled sacs on top of nodule

fist size white tum. w/ fluid sac out of liver

fresh food upper stomach PTER  
intestine. bolus PTER & Amanzia

## A2 Necropsy (2/17 continued)

2/13/09 Male

3-4mm fat layer

5 large } tumors  
4 smcollected multilobed tumor from lung  
preserved & saved

- appears to be pure connective tissue; fibrous

2/17  
Friday

Dead

large turtle, no rimes, no  
obvious signs of injury, washed  
on rocks at Waimea Bay.

Reported to Witham.

Annex Wong wanted shell.

Witham brought it to A-2  
late afternoon.I took in to dump. Sunday  
noon - need stages of  
decomposition.

C-91 cm

♀

Factors

- size of turtle
- in water or on land
- weather conditions (sunny vs cloudy)
- Rupture of Body cavity, or not
- HEALTH STATE OF TURTLE before death (emaciated or not)