

BALAZS

2 OF 2

DAILY LOG

~~RESEARCH~~ APRIL 81 - FEB 82

G.H. BALAZS



9-15-81  
TUESDAY

67

BELLOW -  
RELEASE

- Bellows*
1. 5675 - 1st Lat, small white - in fil; vent
  2. 5753 - 2 plugs - faint dorsal distinct ventral
  3. 5658 - 2 plugs - faint dorsal - (only vent distinct)
  4. 5762 - 1st lat R small - in fil; vent
  5. 5757 -  $\emptyset$
  6. 5765 -  $\emptyset$  hole in R 11th marg.
  7. 5755 - 1 plug R 11th. circle & notches 11th R & left  
vent - Blk plug distinct
  8. 5773 - PC & 11th marg missing - healed  
tail heavily scuffed - missing  
soft yellowish area on PLASTRON
- Bellows*
9. 5754 - 2 plugs faint; 1 faint, 1 distinct, vent.
  10. 5692 - 2 plugs faint, distinct ventral
  11. 5766 - 1st Lat white - distinct, vent small Blk
  12. 5700 -  $\emptyset$ ; left hind 1/2 miss - bitten
- Bellows*
13. 5689 - 2 plugs - faint (peels); 2 Blk ventral faded slightly
- Bellows*
14. 5775 - 1 Lat white (yellow); Blk (fading) ventral
  15. 5649 - 1 plug; ventral Blk plug
  16. 5651 - 1 plug; ventral Blk plug
  17. 5750 - 1 plug; faint dorsal; Blk vent fade
  18. 5760 - 1 plug;  $\emptyset$  ventral
  19. 5748 -  $\emptyset$
  20. 5606 -  $\emptyset$
  21. 5758 -  $\emptyset$
  22. 5749 - 1 plug faint; distinct vent.
  23. 5647 -  $\emptyset$  hole in R 11th marg.
  24. 5668 -  $\emptyset$  small hole in R 11th
  25. 5678 -  $\emptyset$  hole R 11th marg



Rob  
for  
209

9-15-81

BELLOWS - CHUNS  
RELEASE

26. 5774 - 1-2<sup>nd</sup> lat white. small faint Bk  
on ventral
- Bellow 27. 5607 - 1 (2<sup>nd</sup>) lat white infil.; Bk vent.
- Bellows 28. 5622 - 1 plug
- Bellows 29. 5630 - 7<sup>th</sup> central (3<sup>rd</sup> small one ~~broken~~  
7/9/82 recovery  
LAWIKAI) white infil. faint Bk,  
3<sup>rd</sup> posterior
30. 5605 - 1 lat small font; faint Bk.
- Bellows 31. 5610 -
- Bellows 32. 5623 1-2 lat infil.; Big Bk vent.

Talked to Richard:

- Richard - Resident - I gave him my name  
and telephone no. NMFS  
"Laniakea" ponds (freshwater)  
at Chuns - release site of  
24 turtles.  
Sand washes away during the  
winter.

one of the turtles come up on the  
sand at the water's edge.  
Family of 3 kids and one woman  
walking along the beach (picking  
limu etc.) I found the turtle and  
carried it out away.

"Molley" man's name that  
loaded boat with turtles  
and it sank.



OGREN  
(904) -

FTS- 946-4232 234-6541  
~~6232~~ 2  
~~6376~~ 3

SE Center Miami → 350-1011  
Parawa FTS → no more

Robert T.B. IVERSEN  
REGIONAL FISHERIES ATTACHE  
AMERICAN EMBASSY  
TOKYO APO SF, CA  
96503

BARBEE Aasted  
502 HAO Street  
HONOLULU, 96821

#558 RT excursion SPIA- 526-0844

13th 15th 17th  
Tues Thurs Sat  
depart Honolulu 4 PM - 8:10 PM connect Apia

JAN pay 3 day after reservation  
Continental - 955-1155  
\$289 (APIA) 14th Wed 5:30 PM  
\$578 → 16th Fri 16th Sat Sunday



Kewalo

sent 5715 - dead } Rotten - freezer  
 9-17-81 Thursday 5740 - dead }  
 Thursday

for Thursday

- Tag pliers
- Blotters
- Sighting forms
- go to ALUWA

~9-30-81 Red-painted turtles  
 found decomposing in cement tank.

10-2-81 red-painted turtle  
 found very rotten in drains  
 of cement tank.

5761 dead (late Oct 1981)



9-17-81  
Thursday

1. 5723 -  $\phi$
2. 5713 <sup>recto</sup> <sup>post photo</sup> <sub>Ant 200</sub> 1st lat-heavy infil; vent faint spot
3. 5727 - faint dorsal; two Bk plug vent - faint coral
4. 5744 -  $\phi$  hole in 11th right
5. 5735 - 1-2nd faint ~~lat~~ small; vent  $\phi$
6. 5733 -  $\phi$
7. 5703 - 1-2nd lat infil; Bk streak
8. 5705 - 1-2nd lat infil; small Bk vent.  
Hole 11th right with small tag
9. 916-616 - 1-2nd lat white;  $\phi$  vent 1880g
10. 5704 - 1-2 lat white;  $\phi$  vent
11. 5714 -  $\phi$  hole to bone in PL seam center
12. 5738 -  $\phi$
13. 5734 - 1-2 <sup>lat</sup> seam white; faint Bk streak
14. 5731 - 1st lat nearly all gone;  $\phi$  vent.
15. 5724 -  $\phi$  hole to bone PL seam
16. 5719 - 2 plugs - whitish gray dorsal; Bk ventral
17. 5701 - 1-2nd lat - white; vent Bk.
18. 5742 - 1 plug faint; vent distinct
19. 5712 -  $\phi$
20. 5741 -  $\phi$
21. 5722 - 2 plugs faint; 1 Bk distinct vent.
22. 5743 - 1-2nd <sup>white</sup>; Bk vent  
hole PL seam
23. 5708 - 1-2nd lat infil; small Bk vent. spot.
24. 5736 - 1st lat heavy infil; vent faint

Transferred to plastic-lined box.

9-17-81



TUESDAY  
9-22-81 MOKULEIA  
~ 4:15 PM

LINDA BARRACLOUGH

1. 26. X 5720 -  $\emptyset$  hole in ~~st~~ <sup>right</sup> margin 11th
2. 27. X 5707\* - 1-2 lat Right <sup>small</sup>; vent BIK
3. 28. X 5737 - ~~1st~~ 1st lat R; vent  $\emptyset$
4. 29. X 5730 -  $\emptyset$
5. 30. X 5732 - 1st ~~lat~~ lat R white; vent  $\emptyset$
6. 31. X 5709 - 1-2<sup>nd</sup> Right; vent  $\emptyset$  big BIK
7. 32. X 5716 - <sup>small</sup> lat R; vent  $\emptyset$
8. 33. X 5721 - 1 plug dorsal  $\emptyset$ ; vent BIK
9. 34. X 5702 - 1-2<sup>nd</sup> lat Right; vent BIK
10. 35. X 5729 - 2 plugs dorsal  $\emptyset$ ; 2 BIK vent
11. 36. X 5718 -  $\emptyset$
12. 37. X 5706 -  $\emptyset$  missing plugs?  
hole in <sup>with</sup> R margin
13. 38. X 5728 -  $\emptyset$  " " "
14.  $\uparrow$  39. X 5717 - 1st lateral Right.

$\downarrow$  MAKANA - CABANA - TURTLE ~~COVE~~ COVE ~ 11:45 AM - photos

No.  $\emptyset$

9-24-81 THURSDAY

1. (15) ~~XXXX~~ 5741 -  $\emptyset$  Sept 24
2. (20) ~~XXXX~~ X 5724 -  $\emptyset$
3. 40. X 5726 - STAYS AT KEWACO / 1st lat <sup>small feeding</sup>; vent  $\emptyset$
4. 41. 3523 (708-308) -  $\emptyset$
5. 42. 5745 -  $\emptyset$  8th mag R - Rot. R and Rot - missing
6. 43. X 5739 -  $\emptyset$  Groove/hole 11th mag Left
7. 5711 - STAYS AT KEWACO / 1-2<sup>nd</sup> lat white; very small BIK vent
8. 44. X 5710 - 1st lat white; vent  $\emptyset$
9. 45. (795) - 1st lat feeding bad;
10. 46. 5746 - 1-2<sup>nd</sup> lat Right white; vent  $\emptyset$
11. 47. X 5725 - STAYS AT KEWALO - 2 plugs <sup>feeding</sup>; 2 BIK vent
12. ( ) X 5722 (came onto beach a short time later)
13. ( ) X 5703



MAKAHA CABANA  
Turtle Cove

75

- 11. ( ) x 5714
- 12. ( ) x 5723
- 13. ( ) x 5738
- 14. ( ) x 5705
- 15. ( ) x 5708 ↑

Mr. Pickett-Marges?  
25 years -

Because  
eggs?

on Turtle  
Bay

Older Man <sup>(tattoos)</sup> at Makaha Cabanas <sup>Condominium</sup> indicated  
that "Brown's Camp" used to be  
a gathering place for turtles -  
but J. DIAZ (Phillip?) cleared  
them all out with nets in the  
1940's. "Likes big turtles, but  
there isn't much meat in  
them"

Reports nets set in Turtle Bay -  
everywhere - except once you  
get past Makua.

Sharon Hendrick boyfriend  
was at Claron in 1975 JORDAN  
saw hatchlings, dead turtles,  
tracks.



9-18-81 <sup>at HMB</sup> Call from Wayne King about  
 Friday Philippine weaving  
 in October

[ Kathy Goeggel  
 Hawaiian Humane Society  
 2700 Uhihale Avenue  
 Honolulu 96826

9-19 <sup>(called me)</sup>  
 Sat. Flora Gibo  
 egg collection - including  
 sea turtle egg from the  
 Waikiki Aquarium obtained ~ 10 years ago.

Sharon Hendricks  
 Maile Cove Apt.  
 St. John Rd -  
 turn right  
 first right after stream at  
 go all the way to end.  
 (truch in front)

~ 11 AM  
 OCEAN  
 Waikele  
 St John stream  
 87-102 Mamala Pl  
 Waianae  
 Kulaapuni  
 → LINDA BARRACLOUGH  
 Moanalua 3:15 PM Kewalo  
 6963727 9/24/81 Thursday



9-21-81 Lorena Wada - visited office

Need Buttons

9-23-81 Called  
Wed. Peter Hoogs

329-1525 Kona  
Caught 46 crabs around net during  
tournament, then untangled turtle.  
Crewman's name  
→ Lincoln AHL0 JR.

9-23-81 Telephone report  
18<sup>th</sup> September

lost Friday 4:15 PM

"walked ashore" - Bellows - JETTY  
~1' shore

tag 5630  
seemed strong - swam off when put  
Back in the water  
3-4' above wave wash;  
stung by jelly fish.

sent 9/28/81  
Badge

Caroline Knudsen  
419 N. 2nd St  
Stillwell, OK  
- 74960

9/24? called HUMB on the beach  
again

Turtle

Tag No. 5707

- released at Mokoleia 9/22/81 Balazs & Gilmartin
- Recovered on the beach at Mokoleia, 68-693  
Crozier Dr. by Larry Chun 637-9722, about  
10:30am 9/23/81
- Linda Barraclough will pick it up 9/23pm  
and release it again offshore.

68-511 CROZIER DRIVE  
637-5445

9-23-81  
2:30 PM  
taken back  
out by a  
neighbor on a  
surf board -  
with turtle seen.



78

called

ALETA HOKU

9-24-81 SW Fisheries Center - 893-6820  
 Thursday Commercial (714) 453-2820

9-30-81 Talk to docents at  
 Wednesday SIP this morning.  
 One lady dives at  
 spot in Kaneohe Bay where  
 turtles are always seen.  
 Another lady lives at ~~Kaunawa~~  
 and has seen "hawkbill"  
 Also noted <sup>actual</sup> feeding very late  
 in the afternoon

Peggy Hodge - telephone:  
 1044 Koohee Pl. 262-5674  
 Kailua, HI 96734

Windward Press  
 article

10-5-81 Fanny Ogren telephoned -  
 MONDAY Discussed bone aging;  
 Long lines - Mississippi Lab data  
 Resubmitted request through Shomura  
 note - Pascagoula lab data on 516  
 ridleys taken by fishermen

new biologist  
Dr. Walter Nelson



Carr  
Zoology Dept - (904) 392-1107

79

10-1-81 Called Carr in Gainesville about Cornelius WWF proposal.

office:  
392-1250

letter review sent to N. Hammond.

10-5-81 Aleta Hohn telephoned Monday (Oxytetracycline) ←

12 mg - kg

xeroxed descriptions from Bill Gilman's books

[ Dr. Lou D'Avanzo  
30 Aulike  
Suite 301  
Kailua, HI 96734

Kailua  
eye doctor



10-9-81

FRIDAY

Kewalo Basin  
Oxytetracycline injections

$$\textcircled{1} \quad \begin{array}{r} 2.7 \\ 12 \\ \hline 154 \\ 27 \\ \hline \end{array} \quad \text{Tag 5719} = 2.7 \text{ kg}$$

$$32.4 \text{ mg of OTC} = 0.6 \text{ cc}$$

$$\textcircled{2} \quad \begin{array}{r} 3.8 \\ 12 \\ \hline 76 \\ 38 \\ \hline \end{array}$$

$$\text{Tag 5712} = 3.8 \text{ kg}$$

$$456 = 2.9 \text{ cc}$$

$$\textcircled{3} \quad \begin{array}{r} 16 \\ 12 \\ \hline 32 \\ 16 \\ \hline 192 \end{array}$$

$$\text{Tag 5742} = 1.6 \text{ kg}$$

$$\sim 34 \text{ mg} \textcircled{4}$$

$$\underline{\text{Tag 5713}} = 2.9 \text{ kg}$$

⑤

$$\text{Tag 5744} \quad 2.15$$

$$\begin{array}{r} 22 \\ 12 \\ \hline 44 \\ 22 \\ \hline 264 \end{array} \quad \sim 50 \text{ mg}$$

10-15-81 Rest of (23) turtles injected  
THIS DATE BY BILL GILMARTIN/Rod WATSON



1916 Woodford, C.M. on some little known Polynesian settlements in

Bjorndal:

the neighborhood of the Solomon Is.  
Roy. Geog. Soc. Jour. Vol 48  
pp. 26-54

10-9-81 Doug DeMaster called.  
Friday

Del Dykes - 959-9747

Randy Schneider - 948-7533

from Bill Cook:

NEED TO FILE  
SEAN Report

Bob Bourke was at a beach party when divers brought turtle in. He called someone and together picked it up. Turtle was grey alive. Huntley conducted high stress floating

10/25 Green turtle from Kailua Beach - message from Ed Howard @ State Annuenue Station

845-9561 (2, 3)

- found over weekend  
- Michael Fujimoto (will call back)

not tagged 60-80 lbs

Rod picked up in pm to Kewalo alive - turned over to vets;

gizzard crooked. contents in G.I track. Shell and material in freezer at Kewalo. worm rot from under the skin.

10/22 turtle sighting 672-3957

10 AM w/ tag - did not get number

@ Belows, Lanikai reef  
Turtle hit stone wall about 8 lbs -

1 one tag only  
grabbed & released; tag not read.



Go TO KAHALA  
82

WANT DUDLEY

Oct 1981

Sealant SPRAY for boxes/CARAPACES

Worm found on ♀ loggerhead at  
Kewalo basin - in hole of earpace -  
ID by Murray Dailey

TANAIS ROBUSTUS

Murray Dailey has "key" book to leeches.  
ectoparasite

16-31 OCTOBER 1981 TOKELAU

DIVERS

from  
Sharon  
Herdup

~ 1 mile north of Nakaha  
sight of small turtle w/ tag  
reported to Mr. Pickett  
~ 1/2 wk after release  
(~ 1/2 mile from release site)

Kewalo

- Data base on turtles
- My note to Moragos
- Hawksbill
- Ramp limitations - dangerous ∴ when not, more inclined to use.



5 NOV 81 Call from Toby Aleal (SP?)

WED.

Fishing for 10-12 years - Kailua Bay - Kaneohe Bay - In the last 3 years he has seen more turtles with lumps & worms - recently grabbed one in Kailua Bay (same as strandings) but let go when we felt worms. Has caught large one in his net. 3-4 years ago he saw turtles breeding near "Black Rock". Will call me if we come across more.

11-6-81 Concerning Napali EIS  
Helene Takemoto 548-6915  
 OEQC

JOAN KODANI (Secretary - EQC)  
 Visited Environmental Center -  
 Read revised EIS

11-9-81 Palmer Sekora called.  
 Monday

11-9 Jimmy Gau reports that a Hot Dog <sup>for bait</sup> ~~didn't catch~~ <sup>fish, so tried everything</sup> a few years ago as turtle was caught in the mouth with hook and line fishing from shore at Kawa Beach.



11-9-81 Tag 5801-5875 + pliers  
 Monday given to Jerry Ludwig for  
Rose Atoll.

5801-02  
 5804-05  
 5809-10 } applied

Juvenile Dead on Trig 5656 reported by Stollenberger <sup>see</sup> John Ardue letter  
 Date - 24 Oct 81 & FFS Oct 28  
 notebook

11-13 Carr - Meylan called  
 Friday about membership list.  
 Add BOSTAED - get new list out  
 add Caribbean or S. Pacific person?

11-13 Bill "Buck" Barnett's talk  
 on being an observer aboard  
 Amothhead - Alpha Japanese trawler  
 at Hancock Seamount.

- ① fuel burners on back of vessel to burn trash
- ② Trawl net - big to smaller mesh as you approach "bag" end
- ③ Heavy iron balls <sup>seen</sup> on trawl - must destroy bottom.
- ④ No mid-water trawls used
- ⑤ Trawling same area as precious coral - in fact they brought up piece of precious coral fishing gear.
- ⑥ Sighted skip-jack boats from Japan
- ⑦ Poor trawl catch on trip.



17 NOV 81 Reported to me by Bruce Carlson  
TUESDAY Mike: 689-7214 DIVES 2 NIGHTS A WEEK

works at Hawaiian Inland Refinery  
11/15 Sunday - Kake Point LUAA Section  
Observation of Big Turtle with lumps on head, etc. Toward SIDE  
2 1/2' 10-15' water. Sleeping!!  
1/4-1/2 mile

18 NOV 81 Panel talk "Commercial Fishing on the NHI"  
WEDNESDAY

Agaard Qualifications  
1) Imported first Scuba to Hawaii  
2) Imported first gill net made of nylon from Japan to replace cotton

Note: Add Amerson ARB on Agaard to brief case dossier.

Regs are very costly - What is budget of Fishery Council?

300,000 square miles - FCZ  
Rob - Keep unit designation consistent  
② - Show map with boundaries

Former director of FWS agreed:  
① Availability of resource  
② Do it without significant impact

Ciguatera - NHI  
→ intensive/repetitive activity

90% in ("North Pacific")

No comment on Council  
91-313 Fortweaver - 96706  
7 DEC 81

Hawaiian Independent Police  
91-325 KOMOHANA St. 96706  
COB speech



Gordon of Kewalo reports seeing large green turtle in Kewalo basin last Sunday - seen also by tourists; surfaced briefly and seemed to be swimming along rapidly.

19 NOV 81

Thursday

Slide show by work from Mike & Gowel (5415 ago) West ~~FAV~~  
at Burns hall.  
Noted light yellow colored carapaces of green turtles. Ship on deck with rusting Toyotas inside. Reared small turtles in floating buoy.

WWF - New Zealand

P.O. Box 12-200

WELLINGTON NORTH

Chairman: Sir Henry Wigley

Sir William Gilbert

20 NOV 81

Friday

Met with Terry Berry, former PCV teacher in Western Samoa - Grad student in Zoology.

1)

Attended Reception for Nat Reed at Moanalua Gardens; patches Holt has been my letters copied to Hnd. John Dominis Holt suggested a sea turtle sanctuary and research center.



20 NOV 81

Friday Met Audrey OI who used to be docent at Sea Life Park, but now works for Manushea Gordon

23 NOV 81

MONDAY

Telephone from Jerry Ludwig - recently returned from Rose Hill.

Counted 43 pits on Sand. Saw ~ 2 sets of tracks per night - Tagged 3 adult greens the last night there; Caught and tagged a 43.5 cm hawkbill in the lagoon; Saw ~ 4 adults in lagoon. Found a large fluke anchor in 90' water outside pass. Tagged (Floy) ~ 20 clams.

Doing a report on sea turtles for MOP - Sherwood's class. exchange student

EMILY GARDNER

UNIV. Del.

905 Gateway House Biol. major

2563 Dole St.

948-6189

postcard subsequently sent, but I never did hear from her again.



11/23/81

George,

A call from Fred Walls on Maui 1300,  
 this date. A Dean Kashiwa saw a 2'  
 turtle in "poor Condition" about 20'  
 offshore of McGregor Pt, Maui. The  
 turtle had 3 tags, one was read #7651.  
 This occurred Nov. 6, 0900.

Fred 244-4352  
 Dean K. 572-0796

WGG

yes

5671

see p. 61

11-23-81 I telephoned him on Maui.  
 Monday Turtle seen  
 on bottom, laid there, then  
 moved off ~ 20', laid again.  
 A Ron Kashiwa told him  
 to call me.



from Sherwood Maynard  
Kahaloawe Report -

89

11-23-81 Kurt Kawamoto - 681-3594

& Tad Kobashi (works at the Waikiki Aquarium)  
923-9741

→ indicated that he doesn't think  
any turtles were seen - but he will check

send - Fact sheet  
Button cards  
3 post sighting forms (200)

11/25/81 Call from Angie Biscardo Pacarro  
95-304 WAIPULO PL.

Wahiawa, HI 96786

about one month ago 10-25-81  
her and husband found a <sup>at 977ad 911</sup>  
turtle "5700 HTMB" in a  
pond by light house at Kaena Point -  
Left back leg abraded on bottom.  
Couldn't get out on its own -  
must have been washed there by  
waves - Turtle was taken and  
released on the Waianae side.

When fishing, they see large  
turtles by rock that goes out  
by Kaena Pt light house.  
Also see turtles just past  
park in Mokuiaia; and Police  
Beach in Haleiwa.

11-26-81 Visited Kahala Hilton turtles  
Thursday Looked good



90

5951 L.  
 TAG. 5952 R.

11-278/C, = 50

FRIDAY CW = 46

SL = 46.3

SW 38.4

Belly

38

Fishing for Oio -  
 "longline" with <sup>hooks</sup> <sup>whole</sup> squid  
 sitting on the bottom. Squid  
 used for bait.

Released in front of HUMB at 2pm  
 ~16 Chelabornia; Phyllipos; +  
 burrowing in forewings of  
 flippers.

NEED TO SURVEY THIS  
 AREA - NETS / OR SCUBA

11-27 Talked to Gene Whitman -  
 recently in Am. Samoa -  
 12 businesses found with  
 turtleshell. All given  
 opportunity to liquidate stocks.  
 Most from Tonga, via Apia?

Steve MirandaSat, caughtby NOSC -20' - hook  
 caught in end of  
 flippers.

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Carbon  
 Bruce's report - 1st surveying of area  
 200 ft. in 1980



(PULELOA)

11-28-81  
SATURDAYBill  
90<sup>th</sup> PolicePuleloa  
553-5356  
home

Molokai

BOX 175, KUALAPUY,  
MOLOKAI 96757

~ 9" turtle found on shore  
wrapped in "plastic". look like a different  
kind to him - spines on back -  
separated, not continuous.

Turtle found by CCAYTON AFELIN  
BOX 493

KAUNAKAKAI 96748

at PŪKŌ'O at 11 AM this morning

Picked up at Air Hawaii at 5:30 pm  
flight 24. Olive Ridley - active in

cardboard box; Driven to Aquarium  
where it was placed in display  
tank - existing small green  
turtle removed. Turtle swam  
actively, but mostly at the surface.  
Seemed unable to dive.

Eyes appear sunken, and plastron  
slightly so. Introduced chopped  
squid, but no response. Opened  
mouth and put piece in. This  
was swallowed when put back  
in tank - then turtle seemed  
able to dive. Fed 3-4 more  
pieces. Black-Grey dorsally - white

Carlson  
Bruce reports that near by  
hospital Tigerfish found of here  
this year. Strong currents present?



11-28-81

slight yellow ventrally.

11-29-81

Sunday

Resting on bottom when we  
arrived at ~11 AM <sup>right</sup> eye;  
Fuzz hanging out of ~~eye~~ eye;  
Nose embolus and breathing.Fed 4-5 pieces of chopped shrimp -  
ate voluntarily - using food -  
stuck on wire pokes.

Also 1-2 pieces of squid.

Closure of nostrils not occurring.

5 laterals each side

5 centrals - 2-5 have

Displayupraised spines.  
fine clava all over tank bottom  
~~Shoulder~~ base of right front  
and hind flippers have impressed  
~~fine~~ fine line injuries/burns.

11:27

Used hinds to back "nest"  
partly into clava on bottom.  
eyes open.How do spines go flat  
with growth?1 pre  
central

12

12

marg -

LEFT

RIGHT

2 post centrals



11-29-81 Phillis recorded

SUNDAY Length 22 cm → 29"  
 Width 20.1 cm  
 Curved L. 23.3 cm.  
 Curved W. 25.5 cm.  
 Plastron 17.6 cm.  
 Weight. 1.52 kg

photos with flash 3.5 red  
 through aquarium glass; Also with  
 tin holding in front of her.

Called Archie Carr -  
 (904) 466-3231

He has seen 12" Kemp's in  
 South Florida. Going to Narnate  
 tomorrow. <sup>many</sup> feather punch for Kim Clifton

11-28 Call from Skip -  
 Saturday Jim Johnson - 524-7994  
 evening Shallenberger Big Is. - 775-0045

Larry Hoover - 944-2993

John Ward seizure



11-30-81 Turtles at Kahala will be  
Monday moved to SLP for two weeks  
in order to drain tank.

I need to:

- done*
- 1.) Measure GI turtles
  - 2.) Measure late December 80  
two greens
  - 3.) See if Hepburn wants to  
release the four males

BRUCE  
BIKLE 548-5918  
reported: - 8767

J.C. Penneys buys all 4  
selection of [marine] products

J & B Associates, LA, Calif.  
includes 3-4" from "Florida"

telephoned HAS

Bartee: - 871 stuffed turtles  
= 8000 pieces of jewelry

Shell world debriefing from Kim:

- 1) Salesperson told DLNR they caught N. Shore.
- 2) Catalog case - Downs said to only give a stern  
warning - 40 shells; 6-12 stuffed; No original
- 3) In stock - 40 shells; 6-12 stuffed; Inventory



Ron Antanosia:  
Dennis Kirwin -  
 Same turtle w/ large tumor  
 always seen at a site.  
 Ron saw it in 1972-73.

12-3-81 Visited turtles at Kewalo (need to photo and  
 Thursday measure); saw right flipper paralysis; Jan Perry  
 demonstrated Herdichon graft; Need to look at GUTS of frozen.

3-4 DECEMBER 81 KAUAI - <sup>ANIMALS</sup> KUA Association  
 Thursday - FRIDAY LECTURE

4 DEC 81 Peggy Hodge called alerting me to  
 Friday the Aloha Mag. mentions of  
 turtle meat being used at  
 the Peacock Restaurant in  
 Koaanapali, Maui.

7 DEC 81 WHERE DO TURTLES GO DURING STORMY  
 MON. WINDY WEATHER SUCH AS IS  
 OCCURRING right now? HIDE  
 BEHIND REEFS CLOSE TO SHORE, SUCH  
 AS described for Milolii by Jim <sup>KUA</sup>?

7-Dec talked to Mike Garcia in hallway of H16;  
 He cut plumice and found it fine and  
 uniform - NO distinguishing features; <sup>FLOAT TEST</sup> NEEDED



8 DEC 81

OVERHEAD MEETING

97

# 2, 732.47  
245.79

F-81-237 - F-582-B-105  
F-81-238 - F-582-B-277

Need  
MANOA  
Bulletin

NMFS SEMINAR  
DEC 11, 81 FRIDAY

New Zealand  
Dr. or Mr.

SEA TURTLES AND THEIR  
TRADITIONAL USAGE IN THE  
"TOKEAN ISLANDS"

Green turtles  
lots of turtles  
in archaeological  
excavations  
no skulls -  
jaws, scutes

(The ecology & NATIVE USAGE OF  
SEA TURTLES IN THE TOKEAN ISLANDS)

scutes  
determine  
sex

SLP greens that were hatched in artificial  
breath during Dec 80

S-30.1 x 24.6

Dank

C-32.6 x 29.1

Need  
photos

Applied tag

3524 LF2 24.6 - PL

Between  
2-3rd scale

S-29.9 x 24.1

C-32.2 x 29.0

24.0 cm - PL

Applied tag

3525 1 small tag 3-4 right between

Through  
2nd scale  
left



98

12-12-81  
SATURDAYBEING HELD TEMPORARILY  
AT SLP-  
"KATHACA"  
"TURTLE"

①

1 only entered

X 2498 S-65.7 x 53.1  
C-70.0 x 61.5

②

X 2051 > entered  
X 2495 >

S-61.5 x 49.1

C-65.5 x 59.5

drill hole @ 11th margin Right

PHOTOS

③

X 2378 > entered  
X 2056 >

S-65.7 x 55.8

C-69.2 x 66.0

Scutes  
peeling -  
healed  
healing

④

X 2099

Gold

S-61.8 x 47.5

entered C-65.7 x 57.2

horn coming out of dorsal tail

PHOTOS

⑤

SL 81.1cm ♀

Released off MAHAI PIER 12-17-81

⑥

71.8 ♂

left eye sunken, some blood?

Released off  
KATHACA 1-20-84

77.5 ♂

" "

⑧

86.4 ♂

lob in left margin 10-11th

4:30pm

Noted 3 adults basking in lagoon.  
noted a small green  
with long tail.

see p 100



- Photos at SLP
- Measure/photo CI green

99

12-14-81 from M. Taylor

Monday

Tain

village  
close

Soil Service - 546-3165

July 1 - Oct 28, 1981

American  
Samoa

contact

Paul BartheltFr. Robin Leamy  
Oceania Marist Province  
Box 1198, SuvaRegional Superior  
Box 751  
Apia, W. SAMOAStar of the Sea 734-0396  
Waipahu - 677-4276Fr. Joseph Topeto Filipo  
(Josefo)Fetu o le Moana  
P.O. Box 532  
Apia, Western Samoa



12-17-81  
ThursdaySLPKAWAIA  
♀

S-81.3 x 68.1

C-85.8 x 80.5

HEAD- 11.6 cm

68.1 cm - PL

3531 RFL

3532 LFL

3533 3RR

3534 3-4th between L

Released off Makai Pier  
at 9am

CI Turtles

Photos of flashes 2051, 2495 (drill hole)  
and flash 2099 gold

SLP

1 year old w/ flash

3524

&amp;

3525



contact [Carol Lubbers  
BP Museum Bookstore  
50 cards each

101

12/18/81

Transported to SLP for Kahala

LFL - PLASTIC TAGS  
OFF (ROUNDTYPE)

TAG # 2496 LFL

# 2052 RFL

(C) 51.5 x 46.2

(S) 49.3 x 39.8

PL 40.2

HEAD ~~7.3~~

CONTACT  
18 DEC 81 Mark Merlin's talk on  
Friday NEW ZEALAND

Tuamotu?  
Samoa?

① Noted slide showing plate  
tectonic movements of Pacific  
IS. - Noted Society Is. to the  
West. - Pat Coleman interest?

② Noted slide showing  
Polynesian migrations -  
from Siroto Publication?



12-18-81 Hawaiian boat driver at C.I.  
George Aiona indicated that  
 - 6 years ago he used to see  
 and catch lots of turtles off  
 Sand Island - Honolulu side. Catch,  
 take photos, and let them go.

He lives in Waianae.

12-18-81 Steven Miranda indicated  
 that his friend caught a  
 ~ 25-30" turtle with a tag  
 recently, but let it go.

12-18 Lionel E. Camara, Elizabeth's  
 husband, told of KIMO BACON  
 fellow fireman flying a  
 Nat. Guard helicopter recently  
 at South Point and seeing a  
 very large turtle on its back  
 at the beach. Other choppers  
 landed and it took four of  
 them to turn the turtle  
 over.

Kimo has also seen a  
 seal off Oahu? 254-4824

---

20 DEC 1981 8 JAN 1982  
 VACATION IN CALIFORNIA

---



11 JAN 82

Chris said that ~~SLP~~ turtle  
crawled to back part of beach area  
during the daytime last week.

Call from -

Grant Uchida - Pritchardia Palm  
Culmore Hall - 3rd Floor  
2-1981 calendars sent to him.

12 JAN → KIMO BACON telephone interview

Aug 1, 1981 Not. Guard 153 UICAMA  
Summer Camp - found <sup>96734</sup> turtle tracks back  
far up beach - drag tracks.  
Sand & rock beach.

last Oct - saw ~~mark~~ seal on Nihoa  
near loan facility

Telephone report:

12 JAN

Bartee → MAUI  
South Seas Trader -  
Returned fans on sale  
Gazebo → "Grandmother's" comb  
Peacock → had ~ 40 lbs.  
Restaurant obtained from Valley Trade Produce  
who has 5- 05016  
cases of Cayman green.



12 JAN 82  
TUESDAY

Telephone report from a  
John Stoddard to HMB -  
Dead turtle found floating  
in water at Pier 40.

I drove there and found men trying  
to get it out of the water with rope.  
Numerous large tumors on shoulder  
base of flippers tag site areas. Flaps  
visible - no tags or signs of  
previous tags. Dead est. 1-2 days.  
One eye-ball ruptured - possibly  
from crabs?

SL - ~ 26 1/2" (67 cm)  
♀(?) green turtle.

Decomposed small ~~TMRs~~ on eyes.

I opened plastron and  
obtained sample from 1<sup>st</sup> stomach -  
appears to be fine ulva and  
fine red filaments (only small amounts  
present).

Carcass left at site.

Appeared in SEAN newsletter

~~Barre~~  
Barre



TRACK - 39" x 60"

TRAIN with the necessities of life

3. something that gives support, endurance, or strength.

JAN 82

(206)-625-4359

Call Laura Muraw -

4 Turtles to be returned.

They also have a 4.5 kg green previously confiscated by FWS.

Letter from Ruth Fithers about "marked" turtle being seen off Tern Is on 3 Jan 82.

\*\*

Aquarium hawkbill reported not to have eaten for the past 2-3 weeks.

Bill and I visited turtle - seems to be behaving normal in holding section to rear of shark tank. Taken from tank - pectoral muscle appears moderately thin, but hind area looks fine. Plastron is not sunken - looks fine. Mouth opened and food stuffed in - spit out when returned to tank.

WEBSTER'S NEW COLLEGIATE DICTIONARY  
"sustenance" - 1a. Means of support, maintenance or subsistence; LIVINGS.  
b. Food, provisions, also nourishment  
13/13 → b.a. supplying as being supplied  
"subsistence" - 2a. the minimum (as of food and shelter) necessary for the necessities of life.  
2b. A source or means of obtaining the necessities of life.

Part 227.72(F) of the Rules & Regulations pertaining to threatened fish and wildlife (of ESA of 1973) defines "subsistence taking" - as being for personal consumption and "customary, traditional and necessary for the sustenance of such resident and his immediate family".



1-15-82 Telephone call from A. Carr  
 FRIDAY at ~ 6pm at home.

Discussed appointment of Ecuador man  
 and McCoy; Mention of  
 Pacific turtle meeting in Ecuador.  
 Bastard. Berry's conservation mammal.

1-15 John Naughton mentioned seeing  
 "lots" of turtles west  
 side of South Point during  
 recent trip. When questioned  
 further, he said "3" at one time.  
 Person fishing-casting from  
 cliff snagged one of them.  
 Pot hole pay north to Honono Pt.  
 (only JEEP TRAILS)

- Needs  
 - Memo on things done - for Bill

- 1.) FFS monitor
- 2.) Pearl & Hermes expedition
- 3.) Tracking MS (with Dixon)
- 4.) Tagging techniques MS
- 5.) lectures/seminars
- 6.) Tokelau/W. Samoa
- 7.)

Tracking personnel

Andy  
 Steve  
 Ruth

+ 2



## Notes on Alike Copper case:

- 1.) Was he one of permit holders under Reg 36?
- 2.) Note his former Commercial involvement - using nets.

His presence at FFS - took turtles?

Note ARB.

- 3.) <sup>BRING UP WITH</sup> OHA. office - what would they want? Frank Karabely
- 4.) H.S. Comm. - Would this weaken their case?
- 5.) Also take <sup>Cayman</sup> Whales/porpoise?

6.) <sup>As</sup> Copper can buy a turtle from Mavi Company

7.) NIHAU Residents

8.) Without listing, it is endangered.

9.) "Aborig. method" - take on the beach

10.) "If its part of the <sup>IT allow?</sup> culture, and they're disappearing, that would make it ~~even~~ more important to protect them"

11.) "Tribe", as for American Trochans

12.) Taken on high seas when small (ie squid gillnets)

13.) Copper represents commercial interests - but is asking for subsistence take. irony.

14.) WCSTC IUCN policy

15.) Consider - other Pacific areas - Traditional constraints

16.) Status of resources

17.) Turtles sold to Navy (Flannigan)

18.) If subsistence use or aboriginal fishing rights are to be considered, then it should be for all, not just turtle fishing.

21.) If important to culture it shouldn't be exterminated

19.) Reduced habitat from erosion at FFS + Swath of tank from East to TEAN

20.) TUMORS



## Notes on Aika Copper case:

- 1.) Was he one of permit holders under Reg 36?
- 2.) Note his former commercial involvement - using nets.  
His presence at FFS - took turtles?
- 3.) Note ARB. <sup>BRING UP WITH</sup> O.T.A. office - what Frank Kprahala would they want?
- 4.) H.S. Comm. - Would this weaken their case?
- 5.) Also take Cayman Whales/porpoise?
- 6.) <sup>Cayman</sup> Copper can buy a turtle from Mavi Company
- 7.) NIHAU Residents
- 8.) Without listing, it is endangered.
- 9.) "Aborig. method" - take on the beach
- 10.) "If it's part of the <sup>TT allow?</sup> culture, and they're disappearing, that would make it ~~even~~ more important to protect them"
- 11.) "Tribe" as for American Indians
- 12.) Taken on high seas when small (ie squid gillnets)
- 13.) Copper represents commercial interests - but is asking for subsistence take. irony.
- 14.) WCSTC  
IUCN policy
- 15.) Consider - other Pacific areas  
- Traditional constraints
- 16.) Status of resources
- 17.) Turtles sold to Navy (Planmjan)  
& RIDGEWAY

18.) If subsistence use on aboriginal fishing rights are to be considered, then it should be for all, not just turtle fishery.

19.) Reduced habitat from erosion at FFS + Swath of tank from East to TEARS

20.) TUMORS

21.) If important to culture it shouldn't be exterminated



1/27/82 Paul Bartlett 546-3465

3/4 mile long  
 Tau - beach above village  
 Village - saw tracks - than another 16 eggs  
 Samoan guide ← found by  
 from Tau

at edge of veg  
 (Coconut trees)

take back for

white sand;  
 beaches;

Another beach  
 on east side 1 mile, 20' wide  
 long

Date → Aug 1981

Name - TOFI

village  
 (FITIUTA -

FITIUTA 70 years old

[ Rene Sylva  
 Box 218 Paia 96779



1-19-82  
TUESDAY

Telephone call from ALISON WILBUR  
World mag. of National  
Geographic - (202) 857-7683  
Concerning monk seal photos  
and their breathing of air in  
underwater caves. (Dossier sent 1-20-82)

1-20-82  
WEDNESDAY

Meeting on ecosystem modeling  
with J. Polovina et al.

Talked with Gene Witham about  
Kuajalein turtles being held in pond.  
He will be going through there soon on  
USCG flight for fishery council meeting.

Gene Nitta will leave on Friday  
aboard Japanese research boat to  
lay squid nets.

1-22-81  
FRIDAY

Laura Mumaw called -  
I need to contact  
Aquatic Resources  
Eric - 548-5895  
ONEZUCA

Charles Yasuda - KOSAKA - 546-7530

→ Bolesand  
Oahu 548-7175  
SW INS 548-7175

Div. Head 548-7173  
INSP. - AIRPORT



1-22-82 Walt Dudley telephoned me at NMFS  
 FRIDAY and told of a ~~scuba~~ scuba survey  
 he did last weekend immediately  
 off the Shipman estate on the  
 Big Island. A freshwater pool  
 overflows into the ocean at this  
 site. A small reef is present.  
 When swimming out a channel, the  
 mixing of fresh and salt waters makes  
 visibility practically zero.  
 Starting at ~20' depth, lots of  
 turtles swimming away from them.  
 Some "4-5" big. Some of the  
 smaller ones exhibited no fear -  
 they could touch and grab them.

1-25-82

Monday

Waikiki Aquarium hawk  
 started eating again as of  
 Jan 17th Sunday,

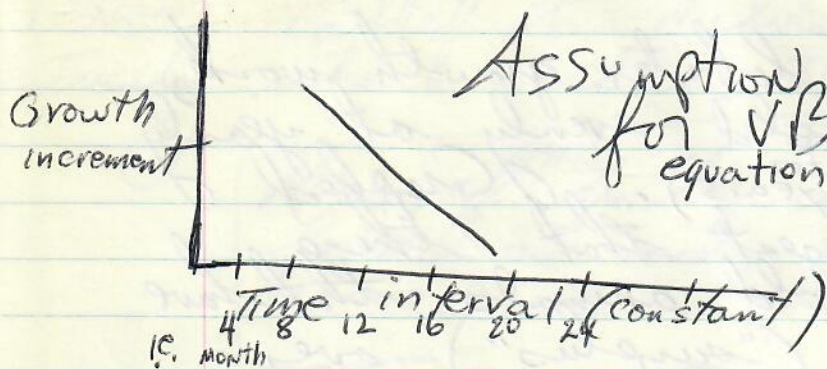
GHB

My Current Salary - \$1907 = \$22,884 year  
 as of July 1982 - +246 = \$2153 month  
 #35,836



As described  
in Fabens, 1965

FORTRAN CODING 111  
Forms needed to enter data -



ASSUMPTION  
for VB  
equation

see Steve  
Ralston

← line must be  
linear

length at start > enter in coding form  
" at recapture

For multiple recaptures, use largest  
time or date will be based to  
those 'individuals' recaptured several times.

ID sequence — (to the right on form - > NO. 72)

ENTER ~~here~~ for study area  
see Steve Ralston i.e. NW vs SE or 1-8

Starting Point -  
diff. form of growth  
ie when animals come out of plankton.

Should growers & nongrowers  
be pooled?

But - no grow  
only in NW - dead end?  
Assume never grow

Craig thinks yes; Also include growth of adults.  
Craig has program on cards; I need to enter  
my data on forms; then have it punched; then  
have it run at computer center.

MEETING w/ C. McDonald: 25 JANUARY 1982  
MONDAY



1-25-82 (continued)

Monday In Craig's lobster growth work, he has angled evenly at yearly intervals (2<sup>1/2</sup> years). Graphed results suggest that there are many old animals that have built up ("surplus") over a long period because of old age found for large lobsters. These large animals make a significant contribution to the breeding stock/production.

1-25-82 Telephone call from Bob Schupmeister inquiring about LANDSAT photos of NWHT.

1-26-82 Telephoned Ruth Ittner  
TUESDAY on Tern to discuss sightings of "marked" juveniles letter in file dated 1/17/82



1-26-82 Tuesday Talked to Melvin Toma, Tiger shark victim. INFO IN Shark file.

Measured <sup>mm</sup> turtle at Kewalo (60.5cm);  
looked at and buried tissue mass in plastic bag - no stomach.

BETH - 672-9760  
637-9089

1-28-82 referred to  
Thursday Dr. Roy Kaiser Appointment  
Dr. Sam - With Dr. Leikert

1-28 Call from Seattle Aquarium  
VL 89497671 - 4 turtles will  
arrive FL 67 United Airlines  
leave 9:45am - arrive 2pm.

Freight - 836 5311 "Bee"  
Lefton Paia to AOLELE - UAC Freight

1-29-82 Friday talked to one of Parrish's  
workers who will be going to FFS  
- Feb 15th. He mentioned seeing  
about 20 turtles all stacked  
up together, off Whale-Skate  
in 2-3' water. They were  
standing in knee-deep water. He  
"went back" for the camera, but  
they had all spooked & scattered by the  
time he got back. Will send me DATA.

CALL WAIT SERVICE  
247-5658



Fresh Fish2-1-82  
MondayUnited Airlines - Air freight  
sent to reportedly fresh AhiRex's Fish Market  
9229 Sunset Blvd  
C.A., CA 90069  
(213) 550-0989

2-1-82

Picked up 4 turtles <sup>at U.A.</sup> and took  
them to the ~~Shuttle~~ Waikiki  
Aquarium.2/2/82 Jim Barte, mentioned recent hatching  
confiscation from Heron IS. - from a Dubois  
from N.Y.

2-2-82 Helene

548-6194 - called  
me about Napa IStalked to Gene Witham - Kijalein visit  
all 8 turtles in one tank (pond)  
greens 2 in the another.Marshallese workmen told them  
they just keep them in there -  
feed lettuce - eventually eat,  
Qualify for "subsistence"



2-4 Peace Corps personnel office, D.C.

2-3-82 FTS 254-6950

Peace Corps <sup>↓ told to call</sup> Volunteers  
Sally Hutchison 254-3148

2-3-82 MIKE

AMAMOTO - 548-4371 Fish & Game

2-4-82 Tagging of Seattle return turtles

① 5811R S-15.3 x 12.5 - only faint gray  
2-3rd scale 600g areas in PL - mostly white  
Some tan/brownish areas on carapace

② 5812R S-15.1 x 12.7 " " "  
2-3rd " " " 560g

③ 5813R S-14.6 x 13.0 more gray -  
3-4th small brown than above no visible

④ 5814R S-13.9 x 11.6 blackest both dorsal & ventral  
3-4  
↑ photos of all 4 in strainer 460g

Olive Straight  
Ridley 22.5 cm x 20.4 1.76 kg



2-5-82  
Friday  
Note  
& postcards sent

Key Litch UPI  
Box 3110  
Honolulu 96801

tel 533-1828

2-8-82  
Monday

wrote letter about Cooper to HFN  
Leon A. Thevenin  
104 Puako Beach Drive  
Waikea, HI 96743

tel-882-7969

2-9-82  
TUES

Also check  
for BOND

ACCOUNT OF VOYAGE  
D'Entrecasteaux

Rare Pacific  
G 420  
L28  
E65  
1800A

1971

2nd  
Floor

3/10  
ED.

2/16-

Check for official  
Cat - copy

Pac  
DU 580  
J4

1920

check

D'ENTRECASTEAUX  
Islands  
where?

Pacific IS. Discoveries - check HI-PAC collection  
reference book.

2-10-82

[ Check Card Cat. Captain Bond  
of the Royal Admiral  
28 Nov 1792 - saw N. HOOK ]

3/16/82



2-8-82 Talked to Jeff Polovina & Thane  
 Monday Influence of sex, light (sun moon),  
 time of month (moon stage)  
 Analyses of diving data from telemetry.

2-9-82 3<sup>dup.</sup> slides given to Bill G. for  
 TUES possible use in Cannon Nat. Ges. wildlife  
 add - 1.) face of black pup 2.) seal turtle  
 post card 3.) seal resting head on beach at Cayson.

2/10 Sr. Chief Donald Vester 91-888  
 WED. Pearl Harbor - Injuns <sup>Honua Pt. CWP Beach 96706</sup>  
 2/16 - telephone talk Lagoon

471-9493 on home  
 He saw it last night ~ 4 PM  
 3' water - near shore  
 24-28" shell, lots of barnacles on  
 shell - head & eyes (probably  
 tumors); listless.  
 - called 2/11 afternoon - seen again ~~at~~ <sup>at</sup> ~~ankle~~  
 deep water - 90% dead

2-10-82 Arlthy Hutchison called from Greenpeace

2/16/82 Talked to LAURA MINOR at  
 Hawaiian-Pacific Collection, Hamilton.  
 Has Fiji friends from CAU  
 TELEPHONE - 923-3429



2-17-82 "Bill got this liquor decanter as a present  
from his brother.  
The Sea Turtle"

letter  
sent

A Cyrus Noble original @ 1979

HAS Brothers Box 3056  
Rincon Annex SF-94119

2-17-82 Talked to Karen Zogg  
Wednesday concerning photos for Cannon  
Nat. Geo. add.

(414) 474-4885

P.O. Box 286

OCONOMOWOC, WIS 53066

- Write about Turtles sent in 1956's -

City of Vancouver [Stanley Park Zoo]  
2099 Beach Ave

B.C.

V6G 1Z4

letter  
sent

Curator Larry B. LeSage

2/19/82 Call from Dallas Grady -  
a week or so he saw  
8-9 turtles at one  
time "feeding" below  
Princeville - most were 2' long.



Need to enter in other gray book

119  
check when done

Green Turtle Caught by Jim Prescott

2/20 SATURDAY  
70' Past Barbours Pt. 5/8 miles offshore

♀ GREEN TAKEN 70' BARBERS PT, offshore  
2/20/82 DATE OF TAKING  
2/20/82 DATE OF CALIPERS CARAPACE W: 62.5 CM  
PHOTOS, EXAM L: 77.7 CM  
TAPE L: 83.7 CM  
W: 80.0 CM

COLLECTED BY:

~~JIM HEDGECOCK~~ JIM PRESCOTT } DIVING  
STEVE KRAMER }  
SCOTT FERGUSON } TOPSIDE  
RICH BRILL }

♀  
5 Bands 1st central - few on plastron  
TMS -  
Proximal front flippers -  
ventral; both eyes have large masses  
- no evidence of protruding  
of emaciation

4 photos | When turned on back, pupils fully visible - 1-100%; right 7809; MASSES hang down over pupils when on land on belly.

2/23 -  
TUESDAY

5468 RFL

5469 left

5470 Right distal scale

Driven to Barbours Pt and released.



2/22 - JOHN NAUGHTON told me of report of gutted out remains of turtles? - seen at Kailua Beach (?) this past weekend.

(2/20)

Telephone call to/

<sup>Harry H.S.</sup>  
Mrs. Muriel Duncan  
884 Mokulua  
262-8770

from P. Hodge  
(262-5674)

Turtle caught on fishing lines at  
" Canikai in front of her house.  
Within past 3 months  
2 months later caught a second  
time. Hook in mouth; on  
second time, swam away  
with hook still in mouth.  
Bait unknown.

" CAIA " <sup>Some years ago</sup> Boys - each holding a  
turtle dripping blood.

Lived there 50 years at CANIKAI -  
3<sup>rd</sup> house on beach.

3/1/82 Talked to Steve Kaiser at S.C.P. -  
A lot of turtles (12) basked after  
refilling tank; Copulation seen  
lately.



from J. Naughton - *RELEASE:*  
7 FEB 82

20° 01.78' N 156° 58.76' W  
Kahoolawe barely visible to NE.  
Tags flashing after  
turtles could not be seen

## METRIC SYSTEM WITH U.S. EQUIVALENTS

### METRIC UNIT (1) U.S. EQUIVALENT

#### LENGTH

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

#### AREA

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

#### WEIGHT

milligram	(mg)	0.015 grains
centigram	(cg)	0.154 grains
decigram	(dg)	1.1543 grains
gram	(g)	0.035 ounces
decagram	(Dg)	0.353 ounces
hectogram	(hg)	3.527 ounces
kilogram	(kg)	2.2046 pounds
quintal		220.46 pounds
metric ton		1.1 tons

### METRIC UNIT (1) U.S. EQUIVALENT

#### VOLUME

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

#### CAPACITY, CUBIC

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

#### CAPACITY, DRY

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

#### CAPACITY, LIQUID

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

Grigg's Zodiac - Model 3269  
seen at HUMB 3/2/82



