



BALAZS
1998



George Balazs
(808) 983-4749
983-5733

July 98 - September 98

NMFS, HONOLULU LAB
Marine Turtle Research
2570 Dole Street
Honolulu, HI 96822-2396

AT&T HAWAII = 800-222-0300

Repair (Pacific Ave) 847-3065 | AB HL

KOKO HEAD TAXI 396-6633

Kimberly ~~Bentley~~ ^{HUNTER} (206) 558-9088

CHRISTINE EVANS (Rick Weisner) 879-7439

Box 1327, Kilauea, 96753

MARTY Weisner 885-6622

MAYNA LANI 881-7016

home - 889-6773

Albert MORITA

(D. ANAKA) (JULIE)

565-6448

MIKE COELHO
565-6862

(301) 713-1401

Barbara Schwedez

9131 ETON Rd
Silver Spring, MD 20901

office

home (301) 587-4929

★ PPA = Program Project Activity ★

Phone# DIAL

TAIWAN CODE 0080 14 9449

622 167 5679

GI

YUANAN LU = home 942-8160
Records back to 3/16/94 ua

JAPAN Dial 0044 2212 2290

622 167 5679

USA → KAPAHULU = 735-5720

U.S.A. Direct AT&T

TAIWAN 0080 102 880

in force @ lookingglass.net

www.lookingglass.net/commercial/info/info.html

Dream and Sunday 6pm AET Bell
830 AM Radio

1-800-917-4278

ZAMZOW
222-1360

Jill Zamzow 956-4712

FAX 956-9812

~~735 7818~~

236-7428

Boyfriends
cell = 228-4417

Losey-HIMB 236-7429

Home 254-6519

Campus 956-8619

TIM CLARK (409) 693-8279 HOME
845-1338 WORK

Wilde computers = (735) 881-3040

Home -
MARC EICE
657692
KOHATA
MOUNTAIN Rd.
KAMUELA, HI
96743

Genevita - 973 - 2987

MORTIMER Home - (352) 373-4480

EMILY GARDNER - 587-5404

3

Shandell
Ernie

RAI Range 2,225 = 26,820
RAII " 21 2,425 = 29,100

Travel 3

SHKM RAI 9/13/93 - 2/16/95
RAII 2/16/95 - present # 8 12 16

Denise RAI 12 months as of 3/97

Bob Morris (Event) austentite@msn.com

Bernice Robinson - WASC (206) 526-6043
FAX - (206) 526-6025.

Hawaii Kai Bob Hutchinson "BRAN" 76 Cad. 395-6850

Therese JFDJR@acad1.2/aska.edu

KB - nwhr.hon@nbs.gov

YLU@pbrc.hawaii.edu

yanagihara@pbrc.hawaii.edu

PAKLEIN@college.med.UFL.EDU

herbst@ecom.yu.edu

jwc3@cornell.edu

Puleloa@aloha.net Office = (813) 896-8626

JAN CAUDS BOEG - HOME 2581 68th Avenue South
St. Petersburg, FL 33712
(813) 866-7142

Steve Reilly (619) 546-7164

56762 8818 MARC RICE

Hawksbill Hatchery Project - visited 2/97

JANE TAMINAKA

LOWENHART (407) 365-3773

ARTA UTARA, 14530

6793

austentite@msn.com
gturle@aloha.net

Jim Casey Fedex
Cornell

Vet. Medical Center
C-5 153

Tower Road
ITHACA, NY

14850
tel (607) 253-3363

3579

MARCIA Forman
PATRICIA PATY HERRERA

LIMOUS (home) (617) 324 54056

JACMAN@aloha.net

thierry - work@usgs.gov

PANDA - 934-1961

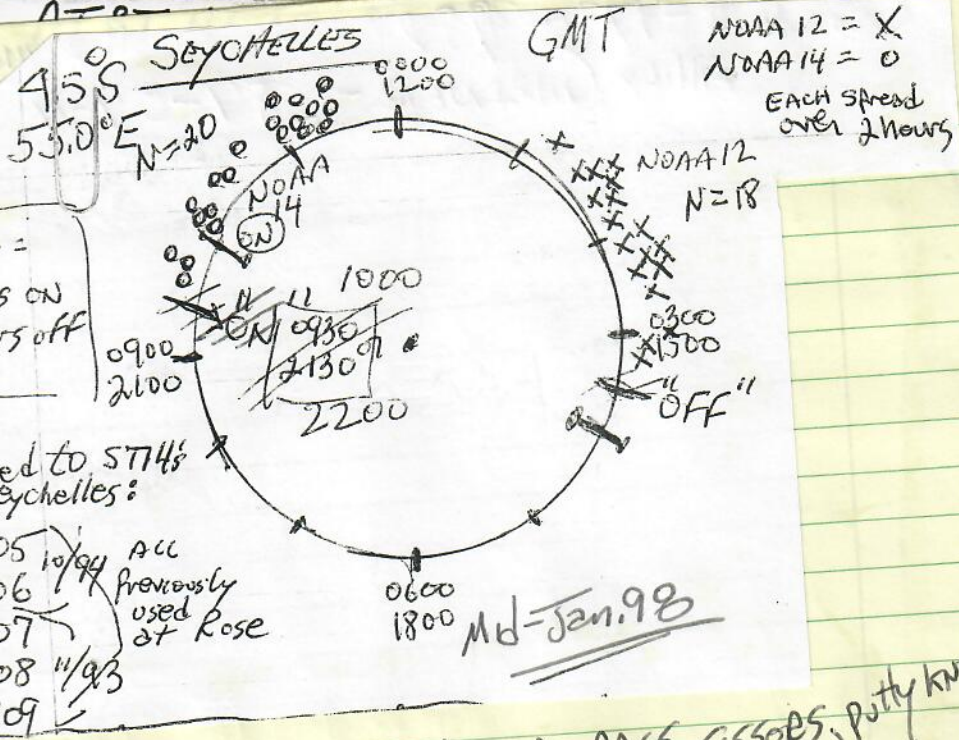
SUZANNE CANJA (808) 879-5344 (WAG)

Beth Flint Home 239-4902 CHEERING LOWE (301) 713-0155

GCB =

gbozazso
mer/hest, tesr
zurame.edu

mvice@hp2.edu



4.5
55° E
hrs on
6/6 hrs

needed - wipe RAGS, Sissors, putty knife

2-QT surfboard Lam, Resin, 4 Sand paper, 2 ELASTOMER
2 handles 20 cups, 5+1 cloth kits, 20 Brushes, Green Scotch GARD
20 Nails (3 1/2 each), Green pigment, Scotch tape, Rubber gloves,
CARBIDE plastic bags, 5 underpads
Fredrick International
12/19/97 H3 yards #290

1/15
1/16/98
Friday

Depart 13 JAN 98 Tuesday United 10AM TO SF, TAXI TO AIRPORT
SF TO London British Airways 747 → Heath Row 1230P
Bus TO GATWICK AIRPORT, Air Seychelles 767 1-14-98
430pm TO PARIS, 1 hour layover, 9 hrs. TO MAKE
arrive ~ 10am 1/15/98 Thurs. TO HOTEL -
Shower - TO inter island 20 MIN TO PRAS 17/98
ATE AT "STEVES RESTAURANT" Small Boat to atwada
Louvine Is. privately owned by
S. African. caretaker Peter Hitching
Girl/friend = Stella (from Scotland) 18/98
1/15/98 Thursday (NIGHT 1) Sunday

4.5° S
55° E

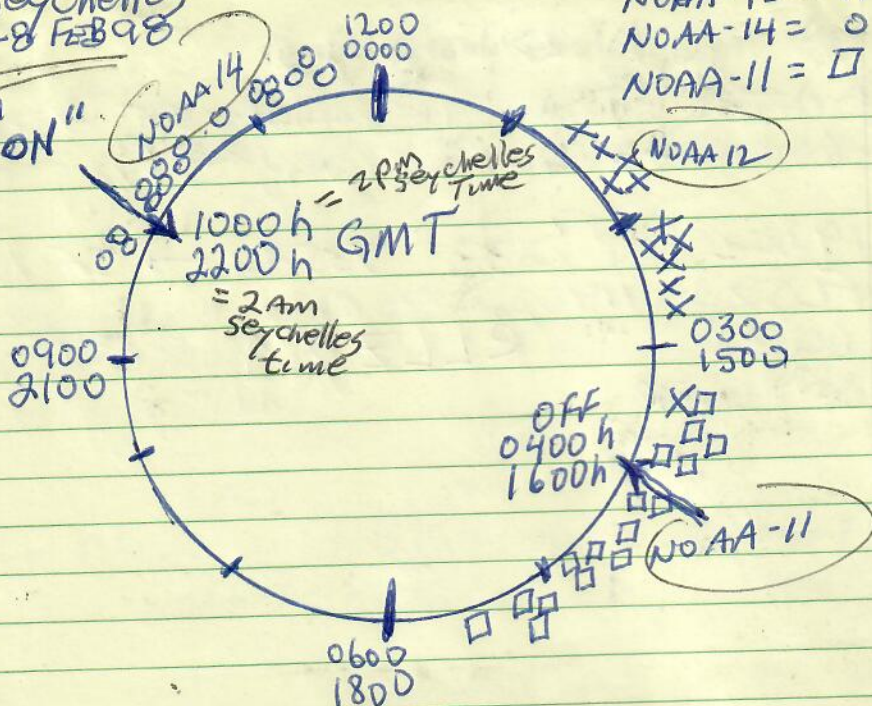
Seychelles
1-8 Feb 98

NOAA-12 = X
NOAA-14 = O
NOAA-11 = □

5

hrs on
6/6 hrs off

"ON"



1/15/98 Thursday late afternoon - VHF radio report from Mazarin that 2 hawksbills found nesting - detained.

1/16/98 Friday 7 AM departure from Cousine to Cousin w/ Jeanne Mathurin, Bob Morris - boat driver George. Attached 4805 & 4806 to the two turtles encountered nesting 1/05 PM Thurs. Return to Cousine PM. Walk around Cousin w/ Jeanne. No new turtles seen ashore on either IS.

1/17/98 Saturday Surf and wind up. Struck on Cousine. Noted "Giant" Gekkos, skinks and Millipedes. Late P.M. 2 turtles reported on Cousine. +1

1/18/98 Sunday 3 Turtles Cousin AM.

Depart 9 AM for Cousin to Attach 3 transmitters. Return Cousine 5 PM (To page 12)

8

UA Honolulu ↔ New Orleans

Sunday

30 August FL 62 9:05 PM → SF 4:52 AM FL 15
6:00 AM → 9:21^{AM} Denver; 10:30^{AM} FL 1592 → 2:02 PM

19 Dec FL 1233 7:35 AM → SF 10:25 AM

FL 59 11:40 PM 3:06 PM

60,000

Cheryl Denise

RLLZQA 800-325-0046

MA

1/6/98 Visit by MARC Rice - Gave him ²⁻ MK5 ⁹
Tues. TDR'S 96-9370 and 97-244 (w/donut),
(no donut)

1/6/98 Telecon with ♀ ERIN BOURGOIS - Hawaii
Exploratory Academy student doing a symposium project
on fibropapillomas.

need "KALL BACK" (206) 599-1991 417 Second Ave W.
www.kallback.com Seattle, WA 9819

Answer: "At Time of Surfacing"
"comes up?"
Telonics = Does Transmission occur at instant
of surfacing, OR, when constant 45 sec rate

Bled at KRF
T. Work

Pit
ID #
Two nos.
1/9/98

SCC	Notch	CCL	Weight
22	44.2	44.0	47.0
78	54.9	54.5	59.0
28	58.2	57.7	62.0
88	52.1	51.4	56.5
50	49.6	48.9	53.0
17	48.4	48.2	52.0

ump
(1.3 x 48 mm)

ALL 8/6, ALL TYGON TO TOP

Ref	SYS. NO.	SN	BATTERY	Notes
455 sec 12 04805	403675A	4441		1/15/98 GMT 10h Magnet off
sec 04806	403701A	4443 4443		1/15/98 Magnet off (2 AM) 2200h GMT
sec 04807	407415A	4444		1/15/98 Magnet off (2 AM) 2200h GMT
sec 04808	414170A	4442		1/17/98 Magnet off 2200h GMT
04809	414175A	4440		1/18/98 Magnet off 1000h GMT

IT
0480
TE AT
Steve's
Restora
PRASLIN
Island
Placed
TRANSMI
on ST

need - Lowest Repetition Rate.

(from page 5)

1/19/98 Monday
Depart Cousine - 730AM for Praslin airport.
915am flight to Mahe - 15 min flight.
35mm slide photos of Cousin & Cousine.
AIRPORT TO "SUNRISE SMALL HOTELS" Room 16.
Jeanne dropped us off in town -
ORCHID TRAVEL - lunch at private Armys
(50 Rupees = 10 US). Went to fish market,
shopping areas, etc.
"visited KANTILAL JIVAN SHAH (FRGS.)
JIVAN IMPORTS (PTY) LTD" Family
been in Seychelles 105 years. (Son
NIRMAL JIVAN SHAH. Conservation
organization - educate school kids.
Has collection of turtle hunting photos.
Knows Bill Travis (now 6 months Sey,
6 months Portugal - methods to detect
Treasure. Beyond The Reef/Sharks for Sale Reprinted.

need
Hawaii
etc
Articles

GPS A

1/16/98
ATTACK

page 17

LA
TITAN
STOCK

ID

15 JAN 98 Thursday

04805

Sy 403675A

ST14

6/6 ¹³

KTE AT Steve's Restaurant Praslin Island

Board S/N 403675A TYGON TO TOP.
Battery S/N 4441 Software Name = ST970213

REPETITION Rate = 45sec.

MAGNET OFF 2 PM Seychelles Time
(10 AM GMT 1/15/98)

Placed TRANSMITTER on STUMP

GARMIN GPS 1205 GMT at Cottage
on Cousine =

04°21.104' S 055°38.938' E

PM-0 F 1/15 Thursday; Trans. ATTACH Y16 Friday AM

LAID No EGGS; 83 ECL 70 CCW
TITANIUM STOCK BRANDS SEY 2407, SEY 2408 SEY Address

DNA by Jeanne
(SKIN biopsy from Neck)

324 GMT

GPS Release = 04°19.986' S
55°39.903'

Released Start 743 AM
END 924 AM

ATTACHMENT TOTAL Time = 1 hr. 41 min
GMT
0524 GMT

EAST shore of Cousin Island. Time in Sea
Photos of Box with vegetation over it for shade.

"Reverse" antenna^{direction} with rolled cloth as buffer to prevent damage and allow forward motion of turtle to stand antenna upright.

Three resin/cloth coats.
Card in top with "4805"
and = (see page 19)

1/16/98 ATTACH

TO PAGE 17

Sun Rise =
6:15 AM

^{Sun 3/98}
Cousine Island e/o Post office
Grand Anse
Peter Hitchin Praslin, Rep. of Seychelles
Stella 32-11-X-07
Tel. 09248-3211
FAX - Same

Boat driver = George

ROBY BRICSSON - COUSIN ISLAND
WARDEN / ADMINISTRATOR

"MAZARIN" ANTONIO CONSTANCE

MA

6/6

COUSIN ISLAND 45 PM UP - 1-15-98 TO nest, Thursday

04806

TRANS ATTACH = 6/6

15

Magnet off
2200h GMT
1/15/98

Laid eggs w/side 1-16-98 Friday

GPS = 4° 19.704' S
55° 39.838' E

1/16/98

CCL 83.0 cm
CCW 75.5

10:10 AM Start Attachment
11:45 AM finish

TOTAL Time =
1 hr +
35 min.

New TAGS SEY 0308
New TAGS SEY 0309

11:52 AM Sey
Release =
(photos w/ Jeanne) 752 h
GMT

DNA RHF SKIN Tissue by Jeanne

This turtle nested (eggs) on the west side of of Cousin - brought by MAZARIN to beach - boat at tourist landing where it was held overnight. Then into box in shade where attachment took place. Many Mosquitos. Tourists. All Attachment procedures done the same as 04805 done earlier this same day (except not painted).

Slide photos going down beach w/ Jeanne in picture.

1-16-98 Friday

No turtles at Cousins.
One at Cousins, but came ashore
at a small beach that wasn't
monitored - tracks seen later

MA

1-17-98 up ~ 6 AM Cousine
Saturday Breakfast = coffee, prunes, bagels, wheaties (jeanne)

17

Heavy surf, wind, prevents launching boat.

(from p. 12) Dinner at restaurant - assortment of Creole/fish dishes - 50 Rp each.
1/19/98 Monday

1/20/98 Tuesday Breakfast w/ Jeanne at Sunrise Hotel -
TO Airport 8:30am.

Air Seychelles depart 10 AM for London
VIA PARIS. Fed barren desert of Ethiopia.
Flew up Red Sea, over Jeddah (not seen),
EGYPT - Cairo - saw 7 of the GIZA
Pyramids, from 35,000'. Saw
(before that) Gulf of Aquaba.

Need

04808

"ON"

2 AM

1/18/98 Sey Time
Sunday

MR. Keeley - Granite business
+ owns helicopter

2200h
GMT
1-17-98

Eic Nest study

Sent 3/98

Tony MURRAY
15 Springfield
Blackhorse ave
Dublin 7
IRELAND

Karen Blaakmeer
Valeriaan 13
8446 BB Heerenveen
The Netherlands

Corine Eising
M. Hobbemastraat 7b
9718 RM Groningen
The Netherlands

Peter Hutth_{in} sp?

6/6

(Dut

6/6

9 AM
1/8/98
Sunday

Landing on Cousin
hairsbills 2 - 1/17 late pm 19
" 2 1/18 early am
(1 of these released)

04807

sted =
S 04 19.762'
E 055 x 39.914'

Sys
407415A

" GRIETJE "
(Dutch name)

new
TITANIUM
RFL Sey 0471

RFL Sey 0472

" Reward Return "
(on titanium tag)

82.3 CCC
CCW

DNA skin tissue,

" Card =
Please do not kill
Call Division of Conservation
Seychelles 22-46-44 "

1147 AM Release = 0747 GMT

captured 1/17/95
same as 407 (release coded)

S 04 19.762'
E 055 x 39.914'

Need
Navigation

British Foreign
Commonwealth Office

for
Chargé of
Affaires
(Diego
García)

04809

Magnetoff

"on"

2pm Sey =

Sunday
1/18/98

1/18/98
1000h
GMT

04808

cellular
phone
jeanne 511 808

21

(66)

Attach 18 JAN 98 Sunday

CCL = 90 cm
CCW = 77.5 cm

Previously tagged RIS =
LIS = 00H465
00H357

Thru-cut RHF - healed Shark?

DNA skin tissue

" NMFS LAB"
VIR. KEY
Miami, FL 3

→ 215 pm release Sey. Time

Did NOT LA EGGS
Captured 1/17/98 PM

Same as 4807 release (shed) =

S 04° 19.762'
E 55° 39.914'

22 ID CODE	GMT DATE- TIME OF DEPLOYMENT	LAT LONG	CCL	TAG NOS.	EGGS
04805	16 JAN 98 0524h GMT	S 04° 19.986' E 55° 39.923'	83.0	SEY 2407 SEY 2408	NO
04806	16 JAN 98 0752h GMT	S 04° 19.704' E 55° 39.838'	83.0	SEY 0308 SEY 0309	YES
04807	18 JAN 98 0747h GMT	S 04° 19.762' E 55° 39.914'	82.3	SEY 0471 SEY 0472	?
04808	18 JAN 98 1015h GMT	S 04° 19.762' E 55° 39.914'	90.0	00H465 00H357	NO
04809	18 JAN 98 0250h GMT	S 04° 19.701' E 55° 39.803'	77.5	SEY 0473 SEY 0474	YES

(46)
1/18
1/50

"SEY" TAGS = TITANIUM
STICKERS
00H = INCONEL 681 NMF5 PLAIN

(46)

4809

Attachment at Soda-pop shelter - Tourist landing at Cousin 23

1/18/98 attach
Sunday

CAID eggs
1/17/98 PM

new TAGS sey 0473
TITANIUM sey 0474

CCL-77.5
CCW 74.5

S040 19.701
E055 039.803

DNA skin tissue

Much Sand in 1st and 2nd Resin coats
Jumpy - jumpy!

Release 18 JAN 98 Sunday
(lens detach in camera)

3PM sey time camera Malfunctioned - none likely will turn out

All Attachment techniques same as earlier 4 ST-145^c

24

13-21 JAN 98
Republic of Seychelles (w/ Bob Morris)

J. Mortimer to deploy 5 ST 14's
on nesting hawksbills - Cousin Is.
4805, 4806, 4807, 4808 & 4809

1/22/98
Thur

SCC
(C)

1/15/98
Wed

1/23/98

1/26/98

1/26/98

1/26/98 Telecom Kevin Foster USFWS
541-3440 id photo of hawksgreen

1/26/98 Evening Telecom Alan Harg Today saw the
first hawksbill (juvenile) he's seen in Haranna Bay.
Greens seem to be increasing in recent years.
Only a few with tumors seen.

cellular phone = 987-6903

25

1/22/98 HPA Marc Rice expedition to Kiholo Bay
Thursday, one-night snorkel captures to
deploy 2 TDR's for ^{under water} remote sensing system
URSS (or RSUS) B983-85 9/30/95 PIT Kiholo
SCL-57.9, nowt, Recap, 4/22/97. Y14 10/26/88 SCL 48.4, 33.5 lbs
(4x recap) most recent 9/28/92 58.4cm, 60lbs.

1/15/98 Fedex from TIM Toomey, 2919 Pacific Ave.
#2, San Francisco, CA 94115
^{need} TEL. (415) 928-4707
Autographed cartoon, Send shark article

1/23/98 Emily Gardner = 587-5404

Clew Ehrhart ^{office = (407)} home = (407) 365-3773

^{lee} LeRoy RAL = 732-7702 Ron Lv.

Laura Glen - JMAR
P.O. # 2102021 ^{Cancel. Then Requisitions}
will be sent to - Caroline for project mount,

FAX 587-0115 Emily

"creative attention" - M. Wilson

^{sent} 1/26/98 Teleson } Johann Oley
76-187, Royal Pienzenafn,
hailo - kona, HI
96740

1/26/98 Sat. Teleson - he will be gone
19-26 April - Philippines Seagrass meeting
^{Need} Sat. predict UAE =

26

Jan. 26th

At Tern Isl. FFS - according to Allison Veit - eggs with no apparent development (yellow yolks) have been called "rotten" for at least 3 years (probably longer) in data.

Monday Hawksbill eggs from Skippy Hlaw shipped

A2 ANALYSIS Dec. 10 1997

9/9/97 MAHONA EXCAVATION

No label on bag = 1 plastic bag with 4 components:

9 of live hatchlings out = 32 of 120

no apparent development

- 1) sand & egg shells = 55 shells
- 2) hatchlings & nearly hatched & developed hatchlings - dead hatchlings = 22, ~~nearly~~
- 3) nearly fully developed, not hatched = 37
- 4) rotten = 23 unhatched, partially developed = 26

(5 Fresh hatchlings saved & refrozen)

(2)

TOTAL = 188

" Tues. Oct. 28 1997 " 192 undeveloped eggs " Kealia (B-2 site) "

George B. & A. Veit^{opened &} counted 188 - undeveloped eggs - some with pink spots of mold / fungi, many eggs had mild footlet attachment. NO signs of development or fertility

(3)

TOTAL = 207

" Nov. 1, 1997 " Kihei Nest Excavation

53 dead hatchlings
142 egg shell
25 undeveloped "

90 live out = 65 (31/90)

" Kihei Nov. 1, 1997 " 84/167 50%

George B. counted 55 dead hatchlings (28 partially developed (unhatched))

1 EED

(3) no apparent development (120) hatched eggs (shells)

(4)

TOTAL = 195

1st Year = 63 for 5we

74 (38/90)

(5)

TOTAL = 223

Count = 0%

(6)

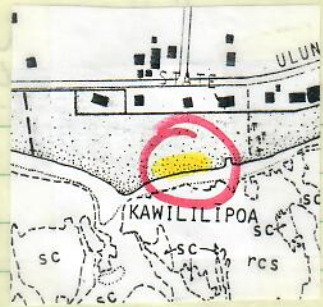
TOTAL = 121

(7)

TOTAL = 115

79%

by S. IAU



④

Nov. 21 1997 Kihei Beach Reserve
Kihei Beach Reserve Old Nest

TOTAL = 195

- 75 empty shells
- 106 partial/under. eggs
- 2 irregular shaped
- 183 total est. eggs

No dead hatchlings

George B & Allison V. count

PAST YEAR = 63 FOR SWE

74 (35%)

- 174 hatched shells (egg)
- 6 embryonic development based on hatchling bones found (i.e., past year)
- 3 no apparent development
- 48 partially developed likely past year
- 55 partially developed - this year (likely)
- 9 no apparent development - likely past year

Kealia Site R-1 Dec. 9, 1997

⑤

235 undeveloped eggs (1 under size)
2 removed for Allen Tom Natl Marine Sanctuary office Kihei Display

TOTAL = 223

Counted 171 + 52 = 223 no apparent development 0%

⑥

10/19/96 123 Eggs Undeveloped

TOTAL = 121 0%

78 + 43 = 121 no apparent development

⑦

10/21/96 Excavation, 1 dead hatchling, 32 partial dev.
143 unbroken/undeveloped eggs 14 shells (hatched)

TOTAL = 183

119 + 32 = 151 partially developed

79% (13) 13 shells 19 no apparent development

END

Need 28 p Glue IN FINAL TABLE ^{Realia} MAVI-SkipPy

1.	163	33 (20%)	
2.	188	0 (0%)	10/28/97 EXCAV.
3.	207	65 (31%)	11/1/97 EXCAV.
* 4.	195	(2 seasons mixed)	11/21/97 EXCAV.
5.	223	0 (0%)	12/9/97 EXCAV.
6.	121	0 (0%)	10/19/96 EXCAV.
7.	183	13 (7%)	10/21/96 EXCAV.
TOTAL 6 NESTS =		1085	110 (10%)

MA

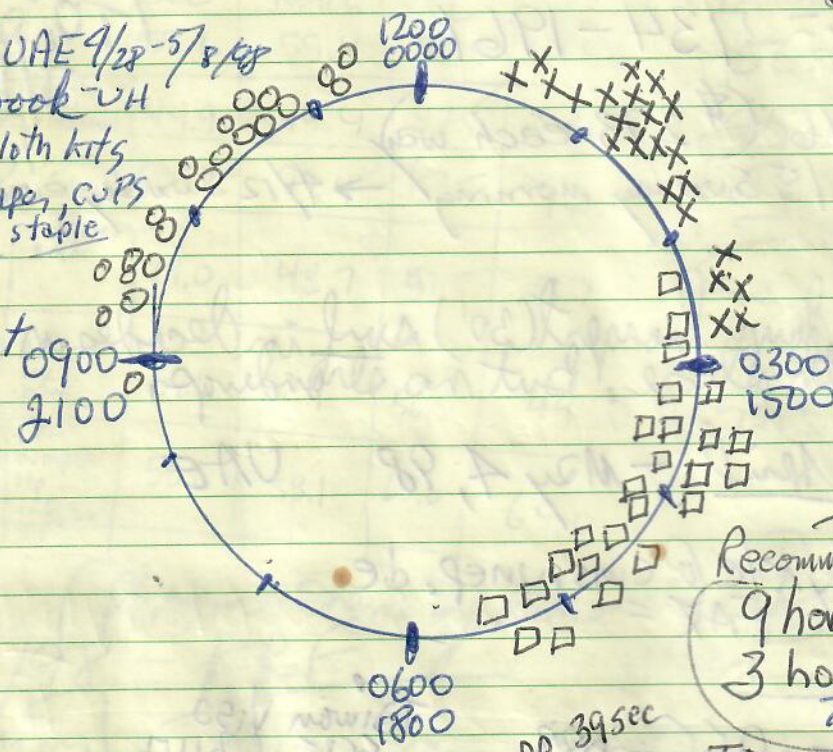
U.A.E. 24°N, 64°E
55°

GMT

29

600\$ = ~42°

- Needs for UAE 9/28-5/8/98
- Separate book - VH
 - ELASTON, 5 cloth kits
 - Brushes, sandpaper, cups
 - Pigment
 - cloth to fall
 - cameras/film
 - kevlar
 - L sleeve shirt



Program 1440

Recommend -
 9 hours ON, =
 3 hours OFF
 7590

Syst. 420079A PR 395sec
 Syst. 420085A PR 405sec

ID CODES =
 10213 } 5/4/98
 10214 } RAS AL
 KHAMAT
 UAE

NOAA 12 = X
 NOAA 14 = O
 NOAA 11 = □

Easter Sunday 4/12/98 Friday 4/3 evening

need
costco
MARIA

PANDA = 1734-1961

TO
4/12 Sunday

\$546 (\$273 each way)

4/5 Sunday morning → 4/12 Sunday evening depart

1/30 Recent days largest (30') surf in decades on north shore, but no strandings.

Fridg 27 April - May 4, 98 UAE

Doug dhykle@cms.unep.de
FAX =

China Ave = 955-0088
#126A3L

Taiwan Visa
595-6347

I FAXed her my pub list and the FP Bibliograph
1/30/98 Cindy DISCOLL FAX (410) 643-4136
Phone (410) 643-6785

2/3 Theom's Student - Cheyenne Fry
Telecan - gave literature

Funakw
2/19 Hild
2/20

11:30 AM - 12:19 FL 290 \$98
5:10 PM - 5:57 FL 75 35.99

Herty

Lo Jolla UA 196 2/23 9:55 pm - Best Western
INN By the Sea 24th

5
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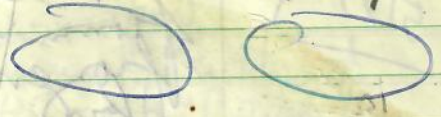
KRF IMMUNOLOGY Study

Turtles - 31

	SCL	Notch	CCL	WT
11/30/98 70	55.6	55.4	59.5	59.0
22 Paint gone from shell	44.9	44.4	47.5	31.0
50 muscle belong	50.0	49.4	53.5	46.0
17 2.3 ^{mm} kelon. lesion 2.9 ^{cm}	49.0	48.7	52.5	37.0
80 4.8 ^{mm} eye bump	52.6	52.1	56.5	49.0
28 LFF bump @ tip - infection? FP?	58.6	58.1	63.0	64.0

To work 3/10/98

56.6 → 56.3
45.6 → 45.2
50.2 → 49.9



- 53.5 52.6

Plasma Chem by R. Morris - OK

3/9/98 - KRF

ALL SCL & Notch Taken ON each one

5 turtles Bled

- #17 good to keep
- Ligi needed
- Ruz & Owens
- inject before release
- Remove eye tumor - lidocaine

Tissues newostat

3/9/98
Denise Ellis
hherrera@gte.net, Shawn Murakawa, Shandell Eames, Rhey Castillo
George Balazs, gturtle@aloha.net, thierry_work@usgs.gov
Normal

:KRF Turtles 3-9-98
All turtles were bled and 18 cc were taken. Fecal material was removed and tanks were lightly scrubbed. Fed 22 fish and 22 squid plus vitamin and calcium. All ate well except #50. #50 refused to eat fish even when dropped in front of its face, but did eat 4 pieces of squid (handfed) with its vitamin/calcium included. #50 seemed lethargic, not using left front flipper when swimming other flippers working, otherwise just resting on bottom.

3/10/98 HBA Beach Park 4PM

TUESDAY Released #22 50 60
"50" had partial paralysis in both fronts.

"17" Released some place 3/11/98
by Shawn and Shandell. ~ 2 PM

32
Punaluu Dawn Mats ~~used~~
966-5401

(MOP
1993?)

And
2/11

671
5135

2/5/98 Thursday # 800610571061

Fedex of Olive Ridley
Samples to Snakes - returned
from J. Casey. Subsampled from
frozen (4) biopsies hand carried
by Army Chavez to Hawaii early
12/97 - sent frozen to J. Casey and
screened for viruses - all positive
CR1, CR2, CR3, CR4 - JC's labels.

2/5/98 need - All Hawkbill
Thurs, Fedex to Dutton: 800610571175
RBC's samples to be sent.

Hilton Waikoloa → 9-30-97 (8)
Molokai, PALAU → 6/30/97 ect (many)
KBAY → 10/14/97 etc (9)
10/15 (9)

Dry
Ice

~~KBAY~~ 7/28-8/1/97 → (9)
~~KBAY~~ 8/10/97 8/9 → (9)
KRF from KBAY

Need

(7/24 11/3)
10/4/97 4/11) → 9 total ?

Strand
11 total

7/28/97, 8/1/97, 11/10/97, 12/20/97, 12/11/97
10/31/97, 10/18/97, 12/9/97, 11/10/97
7/7/97, 8/26/97

12/27/97 BXM - T009 Core #21
LL0188 leatherback

1st
need
of

Andrea Hansen - Fedex no: 400-3734-1931
800-247-4747

Leah Hospital 33

2/5/98 Meeting w/ John B. Sandra Chy
Thursday Kenton, AA, TiW.

T-cells & ELISA (JOHN)
(Sandra)

Decision ^{Before release} - Route, immunization
Frequency for hRF - wait 2 weeks

- ① no blood by IS, kBay TMR, kBay no TMR - Sandra
change do T-cells (no immunization). Look for differences
- ② Plasma of hRF before release - for Morris for me
- ③ Remove FP from eye before release, and
any other susceptible tissues
- ④ Possibly just do kBay - same environment
TMR vs Non-TMR turtles

Note - Sandra ^{change} mentioned some cases
of arthritis results from immunizations?
Need - species? publication reference?
Concerned about immunity large numbers in Korea

still
need list
of publications

→ Jeff Polovina's maps
current speed as per ARROWS (of ~13 km day)

Meet To Meet

- ① 15 cm/sec = 900 cm/min = 540 meters/hour = 0.54 km/hr
- ② 24195 - Travel with/against/irrespective of current
- ③ What is dotted line? bathymetric? or 200 mile EEC?
- ④ 24195 and 24197 (left about the same time 9/20-9/26)
- ⑤ Need 24198 with currents also, by Jeff
- ⑥ 19584 Release - Not strictly going with current (?)
speed of turtle = speed of current?

Modifications →
OVERHEADS - (NMFS HONOLULU LABORATORY
MARINE TURTLE RESEARCH PROGRAMS
RESEARCH COMPONENTS)

- Marine Turtle Biology and Ecology
- INT FISHERY INTERACTIONS (by catch)
- MT / FP Disease
- Technical Assistance and data exchange with Pacific Island and Pacific Rim Nations

BW's for workshop + summary
need MATERIALS

Tumor Scores of individual green turtles over time 1989-97 (only use FBAY pie chart)
(range of time for N=89?)

- Significant changes in Tumor Scores over Time in KANIKOHE BAY 1989-97

delete blau - use red bar/lettering for increases
" green bar/lettering for decreases

- JAN's 1, 2, 3 FP growth rate graphs.

Cheng home 2 341 9161

-LW-
Phone #
FU in Hawaii - Right course

INTERNET EMAIL
6TG FR5

ATT TAIWAN Access

0080 102 880
Teachers Hotel

(886)

2 341 9161

PM 212

GCB

12:30 AM

TAIPEI 2:30 PM

DAD

10:30 AM
YUCCA

2:30 PM

Slides to dup from lecture: Blain's & hawk's Add turtle/seal slide
"Background of Whose money is it anyway?"
the "p.5 - MTSG Global Strategy" In 1994 MD became PO
MTSG under support provided by an anonymous donor to the
MTSG through the efforts of the CMC (Wash. D.C.)

Notes for SKAM
phone call from Taiwan

- 1) Toward 3 presentations lists TO
- 2) BAS - not listed logged hood
- 3) Johnson & Salmon & Rice
- 4) Jeff P. Great stuff - thanks! talk what difference would ± 50 km in positions make?
- 5) Brenda Telonics - ST 15 IS. CHINA D20
- 6) MAP 94042 → QINPENJ
- MAP 97473 → Okinawa segment

- Don't open mail or email
- print ARGIS only
- not supposed to have access SKAM

35 #9
see Doug? modern?
see #7 JW
see #17

T-14 FEBRUARY 98 TAIWAN (IV) -
SAT. SAT. Kent's temples 2/11. KENTING Nat. Park
etc. planning for workshop
MAHUA MATSU

2/17 Fedex Javier's travel checks - said it couldn't be cashed in Mexico so brought to Taiwan cashed
#400-6441-7592
EMAIL INTRO TO JAW TO Lombardy #2 NOAA
2/17 Jerry Garcia WREF Small "MERGE DATA" 207
IUES conference room presentation. Jeff =

JA GCB #RWKX1U 4/17 SAN FL 1117
#620 - 1500 coupon = 517 FL R3 LA
905 19 APRIL FL 184 LA → Denver → New York 1:32 PM

FF
actile
to beam
2/17
Pam's sat.
trans. olive
Ridley to Jeff

GCB = 1:30pm Friday 4/17, 4/18 Prom, 4/19
Leave New Orleans SAT Sunday night
Return

Phone Recorder 2/17/98
CAURA XSATO 737-1530 Telecon 2/18

LES Hawaii Rm 707
uw POLOINN 949 0061 "Wildlife field guide" writing

WHITNEY (319) 297 6839 Greenville
(864) SC

3358 KANUKI 96816
sent to 0983 VIABANCO (need) Dutton
SD 92126 NOLITY

Dropped when putting back into TANK.

8:30 AM 2/19 Thursday
Booster IMMUNO given a week ago by T. Work
KCF bleed 6 Turtle
#28, blood for serum chem TOMAH
hasn't eaten for 2 days
2 times in past week Patty has reported
frantic behavior by turtle.

2/18 Telecon Sue Miller 9 Pref

19-20 FEBRUARY 98 PUNALOU #38
Thurs - Friday
Searched for T&E (New, Recaps)
MACC/George - Put up Japanese Turtle signs (2) (50N, Not found)

sent Down Matsumura HERRI Box 5614
KERRAN, HI 96749
Tel. 966-5401

EU/Necropsy of Ala Uai turtle - Ron Lu present.
Plasma for Babesia MTRP. Tissues sent to
Melody/Doug by TW.

2/21 Drawn page 252-9 259
havershells w herpes tumors
Dys treat

2/18

GCB/CC

2/19
Mard

2/26

Lecture 3 1/10/98 10 AM KILAUEA PT.
FWS ~~284~~ ~~348~~ 828-1413

2/18 Fedex 4 pit tag readers to Biomax Returns
#800 610 571256 #RMA 980015 2-battery
2-MWR

PANDA. HIROKO (TZOHWO) PANDA 734-1961

HA 17 April 12 noon depart LA (\$342)

GCB 19 April FLY 9:30 PM depart HONOLULU 5:40 AM

CO New Orleans 17 April 6:10 AM FL. 1636 → HOUSTON \$1204
FL 1199
→ LA 9:39 AM ARRIVE 8:15 AM

→ LA 9:39 AM ARRIVE
20 April FL. 1194, 8:40 AM → HOUSTON N.O.
1:48 PM → 3:55 PM
2:55 PM

✓ skin Test Monday, bleed on Thursday,

2/23 #800610571083 Fedex 18 whirl pack
Tissues to Jim Casey - Tissues from
Monday Olive ridge - Amy Chavez Costa
RICA Fo
zip-14853 1/bk 2/26 10:01 AM Pickup #695

insulated
Packaging to A. Chavez - cryos, insul, blanket,
Tape, styrofoam

✓ Call E. Gardner

2/26 Linda Paul FAX 263-1728
Sent Train brief B, proposal
for possible funding by
foundation - ?

38

for Grandpa

Need Xerox for Seyonelles book

UA

GXMNIA

#335

115 Seat outboard
FL995

3-16 Fl. 199 220PM → 6PM Monday
3-30 Fl. 192 11PM → 6:20AM Monday

FL 110
192

"US-Chile Sea turtle Collaborative
Research Planning Meeting"
24-25 FEB. 98 La Jolla, CA

TUE, Wed.

Jose Miguel Donoso Pastor
Roberto Babamonde Forde

JAN, Tim Price, Peter Dutton, Steve Reilly
DONATHE

TIM

Time
164 permits 1996 = 103 vessels fished
> 70 60 vessels
each vessel - 10 trips a year
Samples 45-50 trips a year
6 observers - 3 weeks lay trips, 14-40 days
\$10 hours 10 hour work day (= 2 hours OT)
1000 hours

Time

Chile - only regulated inside 200 miles.
observe and document all things caught"
Chile → Easter 2,400 miles,
30 miles

Tim

Calif. driftnet - 1996, 100 boats 132 permits
made trips

Group photo
observer manuals

Need - ① LL / leatherback slide
② Longline photo
③ Deched leatherback (purse)
④ ~~Photo~~ D.C. Dutton Slide

CAJOLLA ETP Cruise
3 years - start July 98 4 months

IATAC - Turtle DATA ?

Set up by Scott - what happened to it ?

2/24/98 Swordfish - to 40° S
TUES. Two parts - ① Commercial ② Artisanal (harpoon + LC?)

1982 - introduced net
American system 2000 hooks, Spanish - 1000 hooks

San Felix / San Antonio Islands / Seamounts
Lots of turtle research in this area
Recent conversations / observers 2000 hooks - usually

But don't know what turtle species west to east
note - "Pitcairne Ridge" = Pitcairn - Easter - Gomez - Felix

Hawkbill w/ tag from Manzanillo caught
THIS region. Sent TO Rene - NO answer

T-shirt / cap best reward in Chile.
6 main parts Artisanal

2/25/98 3 greens HAWAIIAN LL - 2 ES 1 C
Wed. C = HAWAIIAN (need capture) LAT LONG of capture. Haplotype

US-Chile Fishery Talks Date - ?

Go. 206. G.A. growth paper TO Chile.
Am. - Dutton - Genetics. GHB guides Sat. tag; (Echert's Sat. work)
JAW - models and impacts.
Need - Group photo TAKEN with Roberto MIGUELS

Tom Friel -

Wed. 11th

or (Thurs 12th)

HALO

SMALL MITE LARVAE

Need

10th - Lecture KAUAI EMAIL DOWN

41

UA UAE T55GC6

by 3/3/98

#2489

8AM FL. 934 28 April Hono to Dubai via L.A. & London
EK 29 4129 1345h

Need UAE VISA

745AM UA 4301 8 May Dubai to Hono
EK 19 8MAY 0745h

3/2/98 + publication 2 observer Manuals

Federated Tags/Applications 203D-300D
TO Chile Miguel Donoso

Roberto Forde

400-6441-7603

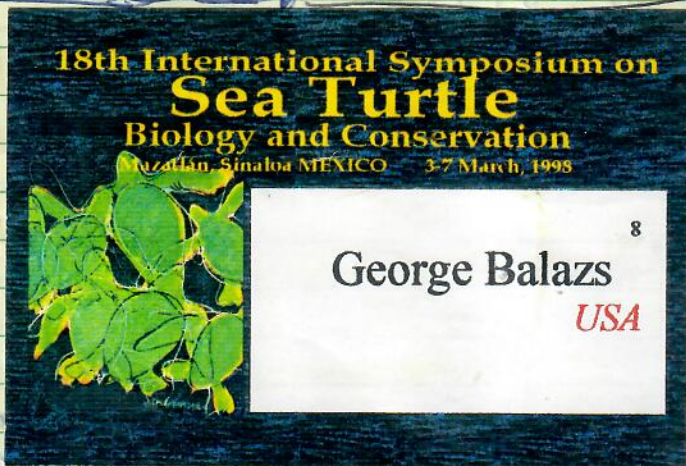
C. Godoy 3/4/98
Tagged
delivered

Tags Travel

301D-500D 200 TAGS

went to Kevin Busscher

BACK NOTE LC Program 12/97



42

2/27/98 ^{Need in "Meetings"} Hawaii Hawksbill Turtle Research
Friday Coordination Meeting
at FWS - Federal Building

Need -
- Participants list
- Minutes

- 1. occurrence, marine habitat, requirements (locations, and)
- Adults/Growth rates
- 2. Migrations ^(IMMATURES) routes & schedules
- 3. Genetics
- 4. Strandings
- 5. Incidental Take • Gullwets • longline pelagic
- 6. hatching → post hatching development

* Shippy 2-3 2' hawksbill (resident?)
off N. Beach, W. Maui.

According to Bill Luteolo
Lawyer - Blew
Jan Halawa?
on Molokai

Needs - JWD Sprouch & TO JAN Landsberg;
email Terry Garcia - introduce Jan

18th ANNUAL Sea Turtle Symposium
3-7 MARCH 1998 MAZATZAN

Fiberglass Hawaii (847-395) Jim (Grey Beard)

- Carlos ^{need} Charts - RAK ^{order} Pacific Center
MAP Center + more TAWAN Related

Need
with
FL light

Heacock - old holon Shearwater Cores
+ Nvalolo KAI
DAD - Home 8mm film
Affordable Video - 236-4445

2 PM wedo
3/11/43
Jeff Holan

227 Jim Cortney
488-1273

Needs Card to Denise: TAO/Taiwan book; Sam Choy/Hanchao
Sat. Predict 8/98 Taiwan; Alan Hong Returned 3/2 London based
Cliff - NPS? TIVIAN? Gliese algae ^{photos} - Acanthophora etco
congrat card

EMAIL

LIST OF PROCUREMENTS

- Needs
 - Jan Landsberg travel/collect in Hawaii - support
 - Melody/Doug - growth virus in cell lines exposed to OA
- X - Bedden - OA tissue ANALYSIS
- X - Contract to Bolton
- X - Telepics order
- X - Wildlife Computers
 - call - sat. link Dive ① Ordertime
 - ② Duty Cycle? LUS 07?
 - ③ Price Break? 'ALP'?
- X - Details about Miks from AA
- X - ITEMS for Ron LU
- X - S. Pacific Grest travelers (+ Lew's student)
- X - Jim Casey - Cornell
- X - "TRACKER" pittay code BIOMARK
- X - Aircraft chartered Tern IS.
- X - Dennis Russell - Tuttle got + Jan IDs

MTSG ⁴⁴ EC Meeting Conservation
 3/4/98 Hawkbill Strategic Plan
 NMFs Nancy Dave

3/5
Thur

Helding =
 "Who is the boss here? Who has the

- Bolten - ^{Amery?} size of Range of loggers in Azores need
- Meet w/ Caribbean 8 / MACA For Carra Sant
- Needs: ✓ Pablo - Dutton - email Peter - meeting? Pablo address email?
- ✓ URSULA
- ✓ Check 17th
- Call Jim Casey (607) 253-3579 - debrief, including Anylestie
- ✓ Method - OA in cell line?
- ✓ EMAIL Ron LU - FAX Him Joel Lachovich Program Abstract
 Mentrion "Tumor cell lines" LAB ANIMAL Science
- ✓ Call Jan Lansbey - Debrief about URSULA photo.
- ✓ EMAIL Charlie # presentation? 2 tracks? our Project
- ✓ Call BAS - Joel Lachovich
- ✓ Follow-up email on Caribbean 5 - Addresses for Video
- ② Season - start? peak? last 1/4? How many per night
 at peak and last 1/4?
- ✓ EMAIL J. HYKKE ① Taiwan ② UAE ALI AL-KHUMI
 ① Law Suit ② noted Sebastian Perumal John
- ✓ David Godfrey ① VISA ② Nest For SUE? ^{commenting}
- ✓ Derek Glicker UAE ① VISA ② Nest For SUE? ^{commenting}
- TELONJAS
 ✓ Lat. Long. LANYU for late August 98
 ✓ EMAIL ADD Thank RAY - Yvette help. ^{Coop n mrs direct with ACCSTR?}
- ✓ BAS, cold shoulder Klein
- Phone Wildlife Computers
- EMAIL Anders ✓ ECB JOURNAL - Short hawkbill paper w/ abstract
 - Abstract for Symposium Proceedings
- ✓ phone George Zug
- ✓ Go to Fiberglass Hawaii - Buy EPOXY ^{for resin}, Talk to Paul Wilson
- ✓ Phone Jeanne TORT. ARTICLE Butnolds?

CAST
 Field
 15
 Found

LEW

3/5/98

Need ABSTRACT For Symposium B&W's

10:00-13:00 3-5-98

45

Thursday

For Fibropapillomas Workshop. Coordinator: Alonso Aguirre, Speakers: G. BALAZS, J. VASONCEZOS, P. Klein, E. Ehrhart, Tiwork. L. Herbst, A. Aguirre

Remarks - overview - Introduce me & Program

CAST - FP Bibliography - email or hard copy

- MTRP NMFS - HL

- Collaborative Research ^{see posters/listen to PAPERS} ^{ZANZOU - CLAIM SWIMMER} ^{Aguirre} ^{Worth}

- Ecologic Geography of sea turtles
→ Field work is foundation of just about all other research activities

Field Biology Foundation

- FP Workshops - Howlow 1990, Ft. Collins 1991, Howlow 1997. Research Planning

KBAy 1989-97 (9 years) ^{87 Days (~10 days a year) once a month} N = 581 Turtles 43.9%

TS AT First encounter
TS 0 = 56.19%, TS 1 = 14.89%, TS 2 = 13.6%

TS 3 15.99%

N = 150

dataset for increase/decrease

- Landsberg ecosystem

P. Klein

- Interest, possibly difficult disease

Tim Fritt - MANTA 1980 ecogden pers. com. AA

Waverly GA 6th low & Gth

50% cure - L. Herbst

shedding of virus

LEH

Shadow of Space Center 1985 30% FP

1977 & 1981 cold of 60 FP

3/5
Thurs. 46

"Door of Death" Panel workshop
Mike Clits - WCG

Call Melody OA + Abstract Path ^{need}

Row LU OA ^{cleaner fishes}
Jan Landsberg

"Frequency" "Prevalence"

Herbert

"CAB Animal Science" → journal
"IMR cell lines"

See Anders ✓

Doug H. CMS

Neca - Alberto MTSG meeting ^{Prolog coil}

Yvette / ^{need pay email} ^{coil size} ^{if cavaface}
Mike Salmon ^{need email} ^{Block detach} ^{continuous lead}

See Abstracts / Talk to Charles H.

René

^{Motives Request} James AC Photo ^{need sent to me}

Tout

3/6

1048 LoTOS

"Cubic Smooth Spline"

"More than the eye" ^{coris} meets

Bolton's Azores
Turtles too smart?

Julia Horrocks (Barbados)

bcs@uwichill.edu.bb

Attn Dr. J. Horrocks.

20 min video to ^{Sat. trans. attempt sent} every one

3/5 "Caribbean 5" meeting in my room 8117
Thursday evening
① Carlos/Robert - MONTA ② LOTUS/Horrocks
③ Richardson ^{JIM} ^{melina} ④ Rhema Kerr Jamaica her place? island

3/7 A.M. ⑤ YUCATAN - ^{P. Marquez} Rene & MAURICIO GARDUÑO
Andrade, DIRECTOR

INSTITUTO NACIONAL DE LA PESCA
Centro Regional de Investigacion Pesquera
YUCA PETEN

A.P. 73 PROGRESO, YUC.

C.P. 97320

TEL FAX ⑨1-993-5-40-28

91-993-5-40-44

email: mgarduno@minter.cieamer.conacyt.
MX

~~Need
capture~~

MTSG - Global Strategy to WSA

~~Need~~

IAN Bell

David Weller

need Jan's address

w/campus - hawkesbill rocky
FAX (69) 880159

MAZATLAN, MEXICO

BIOOXING

48

Nancyli -
MD -
Common stamp

Hilo TRIP - Tom Friel
① DMSO vials ② cameras (2) flash

Dave Gulko =
371-4026

②
Pocket
Reader
P.M.A. 9/9/98
P.M.A.

Jim/Brett - BIOMARK - (208) 378-4900

SEA TURTLE

10 MARCH 98 Lecture AT USFWS
(TUESDAY) KILAUEA POINT

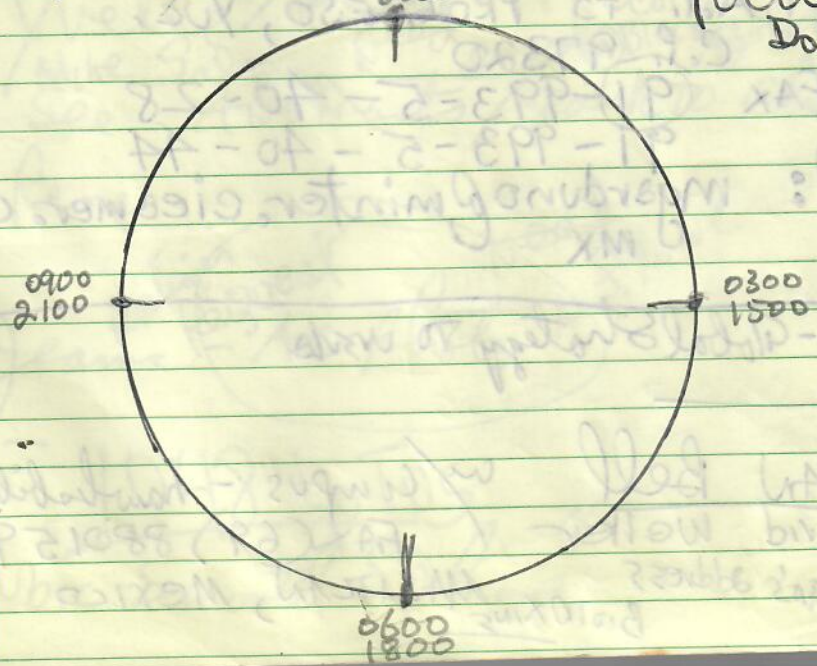
Video by Robert Bloom
(former helicopter Pilot)

828-1413 FWS - Marina; Tom - Travel office, Carol

Shelley White
P.O. Box 1691 Honolulu HI 96714 Tel. 826-6624
She saw turtle tracks 3' wide in sand in "Sea Cave" near Kilauea Pt.

3/11/98 21 CL Biopsies + 1 Tern Cim.
Fedexed #8 00.6105.71164
TO Durham 0600

Puerto Rico
Dolls =



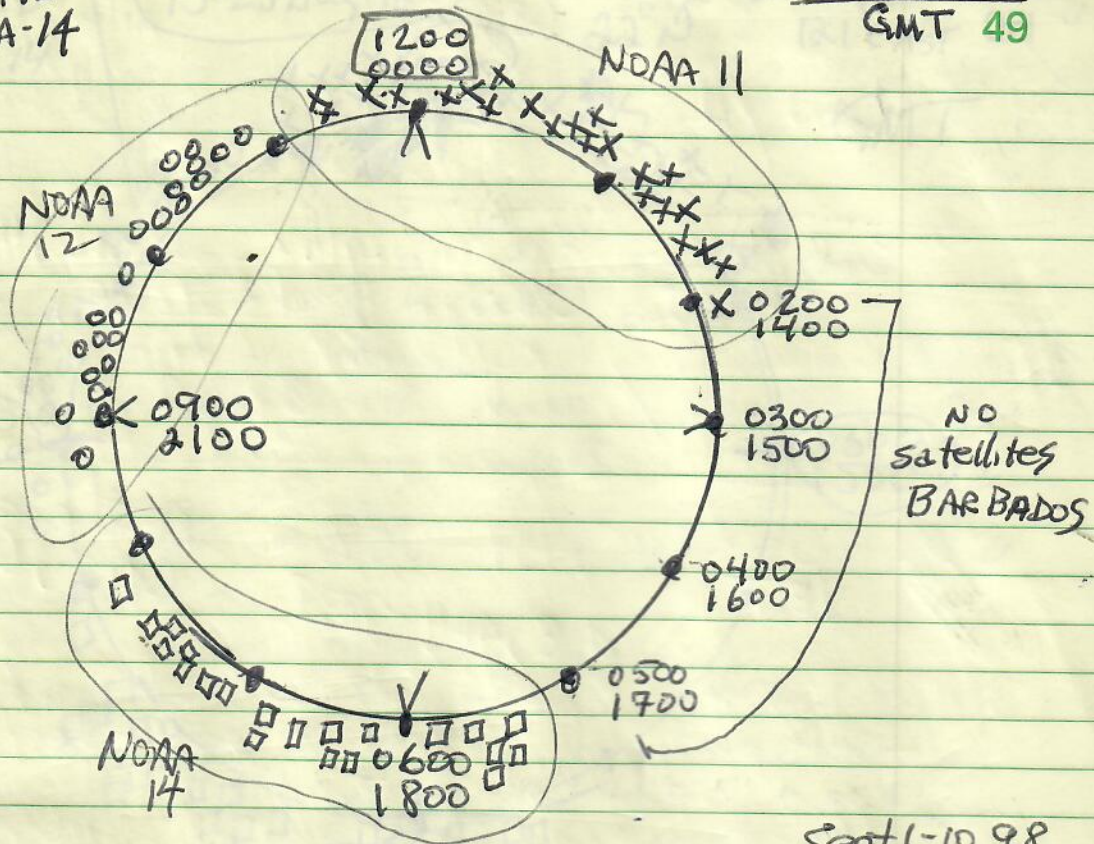
X = NOAA-11
 O = NOAA-12
 □ = NOAA-14

13°N, 59°W

BARBADOS

GMT 49

BATES =



Sept 1-10, 98

YUCATAN GMT

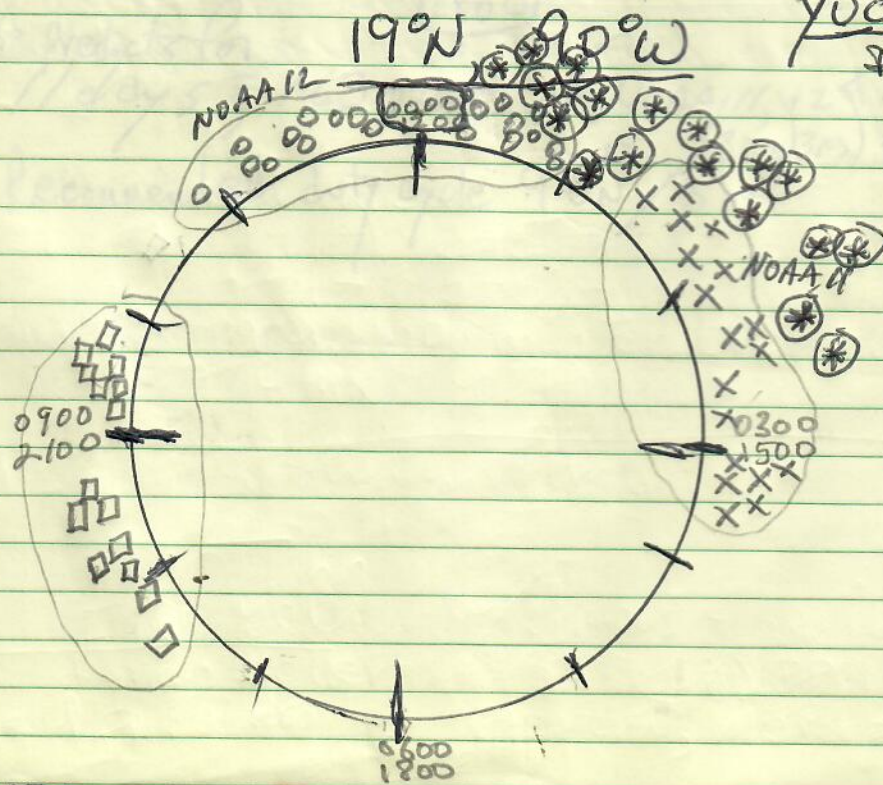
dates = 1-10 Sept 98

X = NOAA 11

O = " 12

□ = " 14

⊗ = " 15

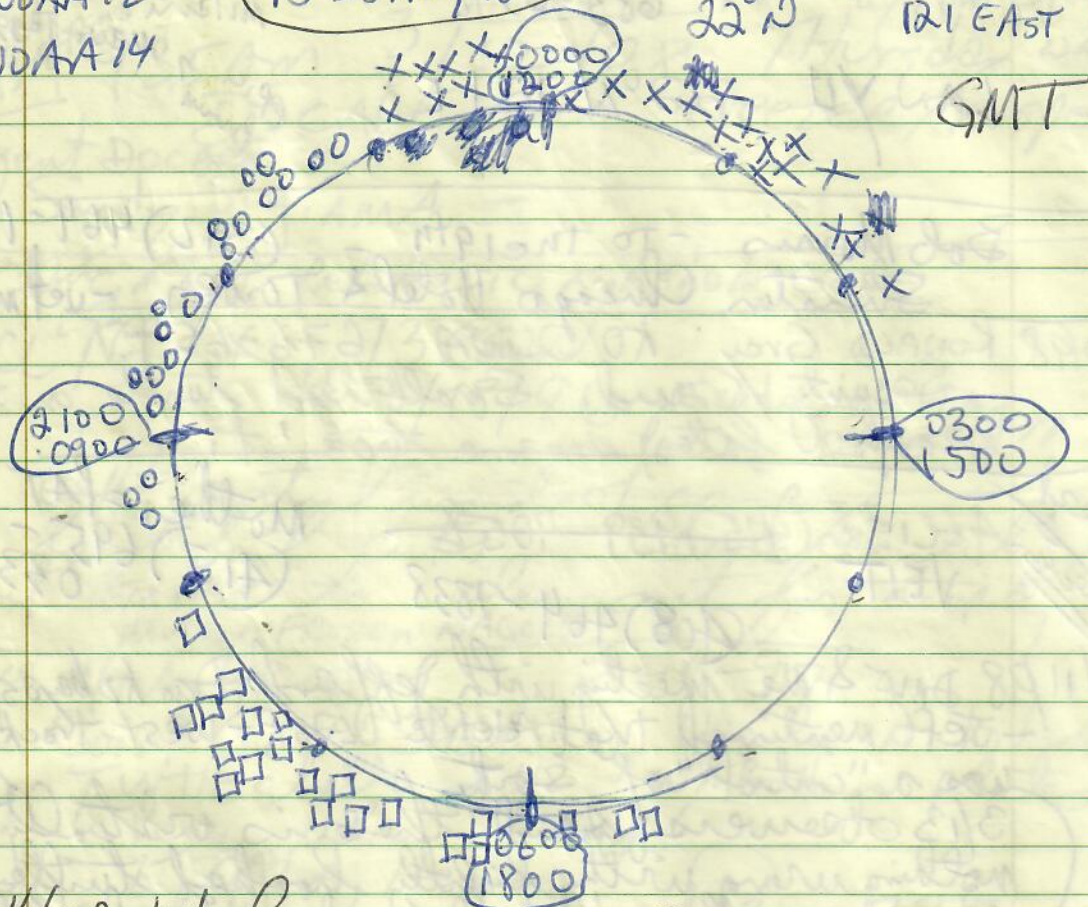


Also need
 - ANTIGUA
 - JAMAICA
 - BUCK IS.
 - USVI

X = NOAA 11
O = NOAA 12
□ = NOAA 14

GMT
15-25 Aug 98

LANYU, TAIWAN
22°N
121°EAST 51



Satellite predicts for
11 days, 163 passes of NOAA 11, 12 & 14
Recommended duty cycle 9^{hours} ON / 3 OFF (38%, 31%, 31%)

need
52

Gordon DLNR - 943-9789
683-0548

Greg Kaufman
Milani?
Eric Brown? Mawi Tagging

CANYU 22°N 121°E

Bob Morris - to the 19th - (312) 464-1000
Sheraton Chicago Hotel & Towers - vet meet

3/10/98 RONALD Gray RD OLINA 676-6547
Security Guard. Small dead turtle on the
beach - I later, someone took it.

need
contact ALLISON (415) 939-7056
VEIT

MOTHER = PAT
(415) 695-0337

3/11/98 DMS & me meeting with Jeff and Dan Kobayashi
- Jeff mentioned that Adelita West - west tracking
was a "control" of sort.

3/13 observers said there is virtually
nothing wrong with lightly hooked turtles
they have brought aboard and released.

Just a quick report on turtle necropsied Monday 03/12/98

MTRP ID =

Severely emaciated, poor condition male turtle. Gross examination demonstrated one No. 1 tumor in lateral right cornea (from limbus) and No. 2 surrounding eye originating from lids. A necrotic mass of fibrotic tissue in layers invaded left orbit, salt gland and adjacent bone, but not the eye, which appeared relatively normal. This mass underneath looked like a regressing tumor (need histo confirmation). No OFP or internal tumors. Adrenals were hypertrophied. Lots of black parasite pockets throughout the serosa of intestine. Mesenteric vessels harden. Slight endocarditis. Stomach and esophagus empty. No stomachal contents available only some presence of sand. GIT 95% empty. Some fecal matter at the end of the tract. Tissues were collected for R. Lu. I have humeri at KRF in freezer.

Preliminary Dx: Ocular FP, infected tumor or trauma in left eye; spirorchidiasis
AAAA

CRAIG NAKAMURA
 THURSDAY HILO TRIP
 w/ Tom Friel. 53
 9:35 AM 3/12/98 Thursday NMFS-LE
 Agent DocARE HILO Freezer/Inspection
 Sandy Sugiama -

IN freezer
 HILO inspection by me (not) related to Nohohala case

CC 76 x 73 CCW

7/18/96 Evidence Tag
 Police Dept 999

Left ventral inside of carapace
 paraffin cuts in bone/cartilage
 effort knife - to clean out for study?
 Many Frozen MAGOTS

Evidence Tag "HA-98-071 8-6-97

PLASTIC BAG 1 Coast Guard Station, Upolu N. Kohala
 Turtle shells x 4, w/ bottom plates
 Peter Nolan

Inspected KAPLA, Herman
 4 shells
 3 plastrons
 CCL 43 x 39.5 CCW

Meat found
 fresh

62 x 54

67 x 58.5

note plastron missing
 for 43 ccl carapace.

71.0 x 60.0

All Chelonia
 MYDAS

Evidence Tag "HA 98-077

PLASTIC BAG 2 8-6-97 1250 HRS
 Coast Guard Station Upolu N. Kohala
 Turtle bones - from table

Inspected 3 Aeromonas process - meat trimmed
 fresh off

3/12/98 Thursday Hilo - exhumed turtle remains

(CONTINUED)
54
evidence
TKR

HA 98-071

8-6-97

1250 hrs

PLASTIC
bags
3

Coast Guard Station

Wolu W'holu

C. mydas

Turtle / Large w/guts "

#16

CCL (87)

80 lbs

guts organs
inside

Shut Tail

1035 hours fresh

we EXAMINED NET in back of Sandy Sugiyama's vehicle

11AM (1)

6" mesh ^{other on side} 2" mesh
(2 sided)
16' x 11'

est. 40-50 lb

Monofilament

(2)

3' mesh ^{other side} 6" mesh
154' x 10' 6"

15 lbs
Monofilament

PLASTIC
BAGS
4 and 5

1 - guts, heads, flippers
1 - All meat

Return FL 291 12:55 pm Aoba

careless
of
facility

Defendant said he let 3 turtles go
alive, only took 5 because they were
already dead. net set overnight.

Good place to sample turtles, except
many people are living right there.

3/12 Brad Westoby 234-6424 Small
h Bay house front. 3/13 Friday 30-40' from
shore; NO one here.

to be on Marc 4/2^{Thurs} - 4/3^{Friday} Kiholo

deployed = ^{Thursday} 3/26 Puako Ave
deployed =

3/13/98 ^{Friday} Debriefing
Bryan & Lewis 2 LL observers

Needs debriefing INITIAL =

need email time APRIL 98
- Tie Board + TAPE on ^{something wider tape} to protect skin.
(bolt cutter) 2' medium size 16" diam
#25

Implement
by Observer
program

Test partially-cured resin by putting it
seawater on it - cloudy?
Crawling around, flippers flipping, is the
greatest problem. need restraint.
- lightly looked ARE good controls, in their
judgement

3/13 Louise (Lembeck) shore recorder
complaint about 56P small turtle, in tank
at Sheraton Waikiki. By himself. Nothing else in tank
(like algae); no where to crawl out; swim in a circle

Video Bluewater, White Death video from ^{Don} BIRGIT Buh Lerol
and Greg Marshall - CRITERIA National Geographic
Television, 1145 171 Street NW, Wash DC 20036

Kahoolawe Report

3/13

(Sgt) Benton Perry (Crazy contractor)
Suite 1120d, 1357 Kapioalani Blvd
Honolulu 96814
Tel 944-8009

3/15
SUN.

5 dead turtles in a gillnet -
SSG - TO A2.
gentle Ashman - Kawela Bay 638-8198
2 new paper articles.

Tues 3/17 - 8; wed - 4; Thurs = 8; Friday = 4
3/23 Mon = 4; Tues = 4; wed = 8; 3/26 = 8 travels
3/27 = 8 Friday

3/17

Video to Rene Fedex # 400-6441-7393
Mauricio GARDUÑO # 400-6441-7485

3/17

Telecon w/ Geo. Zog from Home
① meet with JAN
② send new tank bones

3/17
Tues

epoxy Resin "EPOXY HARDENER"
EXOPY Test 525 PM ~ 75° F
FIBERGLASS HAWAII Brand
4 in 1 epoxy "1.5 min Sqt"
4 pieces of glass/cloth. bushed
on, 2 on masonite, one on
ear bumper, one on handle,
of Pogo stick. At 15 min volume in
cut catalyzed near instant
with fumes, heat on 1/45 min
hard enough so that cloth could not be moved

QA
83951

3/17
Tues
Cures
in
5 MIN
EPOXY
TEST
REDEM
PART B
more
to C

Lot # 100 Uchida - C.C. - N. Acroy 4

Need Card

Linda Moriarty
1722 Makiki St., PH1
Hono., 96822

Need tag forms of
Tape in tag forms of
KRF turtles back
to h Bay

Need g.o. (e.g. card)

for their collection via T.W. 3

Leslie Hartzell 847-8294 (B.P. Museum)
Zoo Archeologist
in Zoo Dept

Wildlife Computers - Melinda/Roger
Sandy Brown, (425) 881-3048
Redmond, WA

West Coast Gateway Hotel #75

3/30 Monday NW 946

1045pm → 612am Seattle

4/1/98 wed. 745AM → 1143AM
FL925

need Telonics - Jimmy
need Will Harrison

need call to Dolban

MSDS (GAIL)

Conty 211

3/17 Cont. Epoxy test. "QUICKCURE" system
Tues. Two glass cloths tested on mouse
Cures Brushed in on but cloth did not
in 5 MIN. absorb to 100% clearness. Amount in
"EPOXY" cut hardened in 5 MIN. 5-10 MIN.
(PART A) cloth could not be moved. 15 MIN near
HARDENING full hard to touch.
(PART B) Board in water overnight covering 3 patches.

Jim - Epoxy harder than polyester, epoxy much
more expensive than polyester, people far more allergic
to epoxy, so very sensitive.

Job by word DNR = 587-0320

811 Middle St. The Bus Report Station Hawk Perch

FAX 8

TEL

3/20/98 Friday Thawed 4 2nd seen by me 3/19 Necropsies by AIA 4 of 5 from Wailee gillnet case 4 others - strand.

3/19 Thurs. Low (w/ no filament) Nearly amputated FF strand to Alan Zane, Nakaio Amputation Surgery 1669 730 AM 3/20 Friday

- Port Allen -22
- Honalei -147
- Molo -08
- Mauka -141
- Mauila -40
- KONA -26
- Hilo -59

Jan Landsberg CO 4/9/98 Tampa

AVIS-#145

ALA MORUA 85 4/19 FL 655pm 12 week 18 end

JAN Schedule - 9 APRIL Thursday Great low tides 5-11 islands " Arrive Mid P.M. ALA MORUA Hotel

Fridy. 10th - Oahu (Poulo) 6:00 AM

SAT. 11th - KONA 6:00 FL 82 4:30 PM FL 279 National #25

SUN. 12th - Flexday

MON. 13th - Holokai Hilo 6:25 AM 4:04 6:35 PM FL 47 NAT #25

TUE. 14th - Kaneohe

Wed. 15th - Hilo MoloKAI 6:15 AM FL 224 AIR 6:25 PM FL #153

Thurs. 16th - MAUI 6:25 AM FL 110 5:00 PM FL 237 NAT. #28

Friday 17th - KAUAI 5:55 AM FL 205 6:35 PM FL 86 NAT. #20

SAT. 18th - PATCH UP places

SUN. 19th

COPIED

3/24

fe

FAX 8367 8778
Hawaii Nuts & Bolts
Tel. 834-1919

Scott / LYNE ISA

Fast-FAST EPOXY
= POWER-FAST
Rawlec
cartridge = 1502,
#49.50
oz # 10 34.26

26 MARCH 1998
PUAKO # 21 - 17 whole blood 9cc for immunology study T. Work
only PIT TAG USED

- 1) calipers
- 2) leather gloves ✓
- 3) united #1135.05

- ERNESTO ALBAVERA
- POR FIRIO HERNANDEZ
- JAVIER VASCONCELOS

FROM HUATULCO, MEXICO

Departure

- need col-JAN
Biblios
Milani - same
Newotani?
4/10 Friday
4/19 Sun
overnight
Mexico

3/24 telecon campus - 12-21 June Mortar Bay
Rewrite proposal - Lopez head, include bibliography
list team and qualifications; list nationals

Fedex 3/30 Reagents - now frozen TO Sabine #400-6441-7400
KURZ 7430

Ammet phone * 60

"What Good is power if left unused?"

PARTITION PROJECTS

* PASSPORT photos

John Clark - "Comprehensive, complete, and absolute"
- new appointment, Helicopter? Aerial Surveys

PPS?

3/25/98 10:04 AM

When Ray Boland and Alonso were looking for items in monk seal freezer they came upon some turtle items (now in our dead animal freezer):

- 1) Dave Langle, 10-18-95, Puamana, Maui, head -green turtle
- 2) DOCARE officers Harold Doe/Richard Tavares via Skippy Hau, 9-14-95, Kahana, Maui, head -green turtle skull is cut in 1/2 (probably brain removed).
- 3) Tissue with tag # 5761, in tan plastic bag with Balazs written on it.
- 4) Green hatchlings, Hatchling mortality, 8-14-84, MMES from FFS Aquarium
- 5) 8-19-82, plastic bag containing a number of tissues? in whorlpacks labeled save Geo. Balaz

Placed all on left-hand side of freezer.

Note: two additional items found by Ray Boland:

- a) A hawksbill GI track, Makaha, 1-30-90
- b) a small hawksbill, moderate decomp, 23.5 cm SCL, 26 cm CCL. no other ID.

A brief summary of turtle necropsies for 3/20/98

Four turtles with no FP in excellent physical condition but moderate state of decomposition were necropsied. Gross findings in all turtles were evidence of entanglement and drowning. Head, neck and front flippers were edematous, swollen with subcutaneous hemorrhage. Lungs were edematous and trachea and adjacent tissues hemorrhagic. Tissues were collected for histopathology. A 'wet' drowning could not be diagnosed and tissues from all turtles were collected for histopathology.

A turtle in poor condition, presented severe, generalized FP; another turtle with a large FP invading upper maxilla and orbit presented an abscess and necrotic tissue by the palate, possibly due to food impaction and secondary bacterial infection. Tissues were collected for histopathology. The last turtle was another case of entanglement and forced submergence with similar lesions to the above four cases.

Geo, could you make arrangements to obtain copies of these records and records for necropsies performed on 5 February 1998? Most appreciative. Aloha

Green turtle
3-19-98
Sloane Viveiros
Castle Point

KRF

3/27/98

Monday 3/30 (Arrived by Me, Bob Morley)

Found turtle resting by standpipe and 2 small, grey fecal pellets in tank. Watched turtle eat 6 fish (cut in 1/3's) and 6 squid + vit / cal pills. Turtle was swimming when I left.

one-flipped

FYI... Vitamin and calcium pills are in the door of the outside refrigerator, where we normally keep them.

3/30/98 NOT EATING BUT ACTIVE

MacDonald
Chris new vet student Intern

QUANTITY TUMOR SCORES TSD none found

TS 1 - preponderance (>50%) of A tumors

TS 2 - preponderance of A-B tumors

TS 3 - preponderance of A-C tumors

TS 4 - preponderance of A-D (all size) tumors

Individual Tumors

Size A (1) = Less than 1 cm diameter

Size B (2) = $1 \leq X < 4$ cm

Size C (3) = $4 \leq X < 10$ cm

Size D (4) = > 10 cm

April 7
Wed 6:21 PM
Small
conference
room

Pacific Handcrafters - Bill Watsch T-shirts
"NANA KAKOU IA LAKOU" showing head of green turtle
W&S has this T-shirt

3/29/98
DAD

twice seen
3/24 EMAIL RE: Seal eating turtle(s):
(sent) from Allison O. Lancaster
(Science Teacher - Hanalei School)
P.O. Box 1341, Hanalei, HI 96714
826-1095
by Captains) Hanalei Sea Tours
sent GARY KATAYAMA
P.O. Box 286 639-9138
Koloa, HI 96756

3-30-98 Monday Telecon Honolulu Advertiser - TALKED
BUNKY BAKUTIS 5/13/98 = Telecon 39:00
695-0579 84-324 MAHANA RD 2000
96792 Vally

3/29 Black Mountain - Kipuka i Bay, Kaula
Night Diving - Point
Telecon Head tipped off, holding it by flippers
w/ GARY KATAYAMA 15-20' hoed by
- 100 lb turtle seals 6-7' Seal
2 seen in area

ABOUT A MONTH AGO.

A week later, diving boat,
other side of bay - mark seal
Both saw it hoed small turtle
Ron Wolf 826-5125

Need him
and
Capt.
need

Alison Jent (415) 929-7056

63

3/29/98
DAD

RITA & RALPH GENTNER.
1454 CICCOTTE ST.
ALLEN PARK, MICHIGAN 48101
PHONE: 1-313-928-4881.

PAULINE DAVIS.
1504 REGGIO AISLE.
IRVINE, CA 92606 PHONE: 1-714-651-9962.
OR
YUCCA VALLEY, CA 1-760-365-9488.

Monday
64 Monday

30 MARCH - 1 APRIL 98

Wildlife
Computers
Redmond, WA

specific by PC -

3/31/98
Tuesday

① Days on, Days off
② Hours of coverage

Wildlife
Computers

16150 NE
85th St.
#226

Redmond
WA
98052

(425) 881-
3018
FAX (425)
881-
3405

Repetitive st w.c.
2-40°C Stress test - Simulates aging

3-40% "CW fast" mostly excluded
These units are eliminated - don't reach bye!

Infant Mortality
Medium mortality

SDRT10
"Smart"

"Failure Rate"

ST10 (NEED)
Present count Telam = ? Roger

3.6 V 3.4 A Rectangular 24 3.8 x .6 cm

"Life" = 3.6 V 3.04 for 2/3 A
Military spec. new battery 100 bought - \$100 each, newly 24 h

24 h / 72 h use limited versus
"Not bridge days" for present number of transmitters =

Antenna too stiff - metal fatigue change from vibrating

Spread the bend too stiff

Metal FATIGUE break may look like ABRASION

Need for SDR

TOTAL ST10

Pos 6, 10, 14 PAN

Anten

w/

T

6-8 wks delivery if ordered soon
 w/kill plug SDR-T10 3/31/98 ⁶⁵
 5 Micro Amps Quiescent

Need for SDR PTTs
 ARGOS processing type
 32 x 8 bit type A1

10+ units
 4,050 + 400 batteries
 = 4,450
 20+ price break?

ABOVE DISCUSSIONS Roger ^{ALL} MELINDA BRAUN

MAJOR TOPICS

- Batteries / size of unit / shape
- Duty Cycle(s) self programmable - 2 Phases
- FAILURE RATE
- Ability to measure voltage, hence status of battery
- Quiescent drain - very conservative
- Antenna ^{longer than Telonics 450 or trying may not be problem}
- Satellite Predict Software (to be sent)
- Diag vs DAT files - some positions are Jan one, and NOT over other. And

Possible

14 VISA VERA!

Dive "BINS" 0-250 (use less)

6, 10, or 14 RANGES

Specify some deeper than you think - just in case of deep dives! (See Jeff for environmental validity of certain depths)

Bottom Line - Build unit w/ 4 new Batteries, same as ST-10 rectangle, but smoothed ends, 90° top w/ 2 sheaths of tygon, the rest floppy flexible.

Antenna Diameter = ?

SDR-T10

kill plug
 wattage = 20.4

weight = about 170g; Telonics ST10 =

cost - 10+ \$ = 4,450

Transmissions =

Note - Block of wood of ST10 size left with finger ^{mention about 3} HILL of 3mm

3/31/98 ^{TUES.} Wildlife Computers - NOTES ^{Fisheries} Melinda BRAUN MAEC

TOTALLY STIFF Antenna? Draft? possible to make? Telonics?
- Telonics - How many STRESS BANDS? Test.
CONTROLS - ETP cruises
Chromwell
Hawaii - Flipper-hooked - Vigorous

ABB - ① BAS CONTRACT? for Azores? double up?
② provide only of my existing 17ST10's to ABB?
③ results/maps of past tracks Azores

④ Thomas Dellinger 2-c cells ^{posterior}
Deployments? Details of Profiles?
+ (A) Scott - green released + papers
(B) Robt. Van Dam (C) MAEC? (D) Anyone else? other hands self

See Jeff Polovina / Boggs? -
- Longline Fishing deaths
- oceanographic feature food/other layering

- Max. number transmissions/day can be set

HISTOGRAMS

① Depth Histograms ^{by bins} - proportion of time at certain depths
Each histogram covers 6 hours. can be set up for
Night, dawn, day, dusk

For about what are these GMT's in N. Pacific fishing areas?

② Duration Histograms ^{Dive duration}
③ Time-at-depth Histograms
> page 3 of FAX
page 6 FAX
① Summary of Number of Dives by Duration
② Number of Dives by maximum depth

CAN IMBED NAME IN RESIN?

Note - Telonics is lexan sheets filled w/ resin, maximum depth

sent
3/31/98

ATK
"Ker"
Floater
no edit

4/1/98
Wednes
sent

FW

Need JAE Book
 MARC - more video production.
 need test - epoxy glue paint 67
 - cloth
 need thermometer - epoxy warm & cool

Question about "Om". No expectation of "Dry" periods, but nevertheless is possible. So, should it be used

2 hr on 4 hrs off 45 RR rate
 8 hr day = 480min x 60sec = 28,800 sec ÷ 45sec
 640day x 30 = 19,200 Month

STARBUCKS - (408) 292-9464 + 4/7 Telecon

sent
 3/31/98

Contact: Madeline Scherman
 her address: 1 Kailuana Pl, Kailua HI 96734
 Ph: 262-6200
 ID date: 3-31-98
 Place: Kawaiui Canal, Kailua

Denise 4/1/98 message
 3-31-98 still at Makai
 Blood
 X-ray workup

Picked up from canal beach in back of Mr. & Mrs. Knoxs property
 address: 692 Kaimalino St, Kailua, HI 96734
 Ph: 254-4620

AT
 "KREF"
 Flocks
 no eating

Turtle had been "stranding" (basking) regularly for the last 3 or 4 days. 52.3 cm SCL. Moderate emaciation, small (#1's) tumors on left eye, small tumors on right eye (#1 & #2), small tumors on both jaw hinges, and RFL. couldn't get a good view down mouth but didn't not see obvious tumor on glottis. Overall tumor score: 1. Moderately active when picked up but weak. Took to Makai Animal clinic for exam and observation.

4/1/98 telecon
 Wednesday

JAMES Witt, 47-711 Kam Hwy. (Sent)
 KANEOTE, 96744 Tel. 239-9327

sent
 FW

~ 25# live - Head, eyes imp. tumors
 60' from water Beached in front of his house.
 Kahaluu. Granddaughter. Paged Felicia SSG.
 Spoke to Pam. 261-4275.

Heterozygous by AA & TW - Ron Lu present
 Tissues = Sabine Lu
 - Ron Lu

68

Times both eyes, mouth, flippers

A live turtle - exit to Pond, but won't leave 3+

3/30/98
330pm
Sent

JENARA STADLER
P.O. Box 10809
Hilo, HI 96721

961-5987

keeps stranding
at low tide.

Near Keaukaha Beach - In pond right behind
Apartment Building - Hale Moana in Hilo.

FAXED TO LEON.

4/1 call to Denise saying turtle now dead - Doc recalled

4/2/98 Lisa vet. Hawaii Kai
need 89 394-3441

4/2/98 8 ONSET
8 hobos sent FedEx # 802863269606
#s to name for new Batteries
17469, 17473, 16592, 17474, 17470, 16591, 17468, 16593

all returned

4/2/98 Telecon works Waikiki Sheraton
YU FWA
364 Seaside Ave #1511
Honolulu, HI 96815

4/3 Telecon
Will - 7299 & 7298
FINE w/ Accos.
BUT NO signals.
LAST was 11/21/97
made at Telonics
they test with
"uplink Receiver"
DS-DIAs

Deep hook PTT 7299 - David Roddenberry observer
3/15/98 Loggerhead (72.5)

PTT 7298 3/10/98 Loggerhead (77.5)

See also p. 70
Kitz AA and 2 returned used 4/2/98

"If in doubt, communicate"

69

BARBADOS -

MONA -

YUCATAN -

JAMAICA -

ANTIGUA - Peak - late Aug / early Sept.
END = November

BUCK ISLAND -