

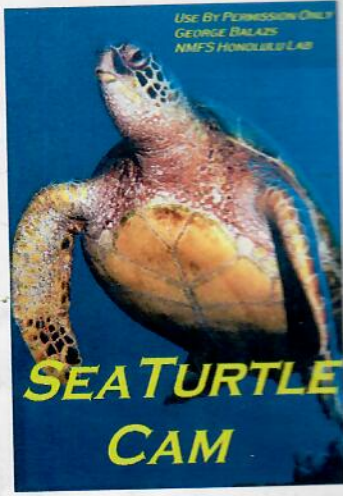
2002

2003  
23-30 MAY 03

2004  
21- SEPTEMBER  
04

FFS No.  
(808) 395-6409

BALAZS



EAST ISLAND

"Life on that islet of French Frigate Shoals delighted us all, especially the baby, who crawled and tottered and capsized, to the accompaniment of excited crowing, into the yielding sand. How I wish I could cruise again to that good place, once more to see that clear sky and enjoy that perfect weather! It would add ten years to my life to escape from the red tape that enmeshes us civilized men, to flee from police, tax-collectors, landlords, swindlers, innumerable parasites that suck our blood. None of them infested our world of islands. At French Frigate Shoals, praise God, sharks were fish, not humans."

Captain John Cameron  
Spring 1894



Seaturtle Cam uses - p. 30

23-30 May 03 FFS No. p. 14  
Narrative -

End points of FFS satellite tagging - p. 6

Map of TEEN - p. 62, 114

Map of East - p. 97

SEE MORE  
WILDLIFE  
S Y S T E M S



DANIEL ZATZ  
President

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HOMER, ALASKA 99603

[www.seemorewildlife.com](http://www.seemorewildlife.com)

TAIL No. of  
Bob Justman  
Piper Aztek  
"N40370"

2003 - start at motorool "I"  
No prefix or suffix

MOTOROL  
2002 "C" suffix



from MAEC Rice  
EAST Island

483 Meters  
EAST END

N 23° 47.126' W 166° 12.443'

West END

N 23° 47.269' W 166° 12.682'

POLE

23° 47.220' 166° 12.153'

TOP turtle camera on pole = 60-65 ft  
Lower Turtle Camera " " 45 ft

Pole to west end of east = 255 m  
" " East " " " = 240  
495 m

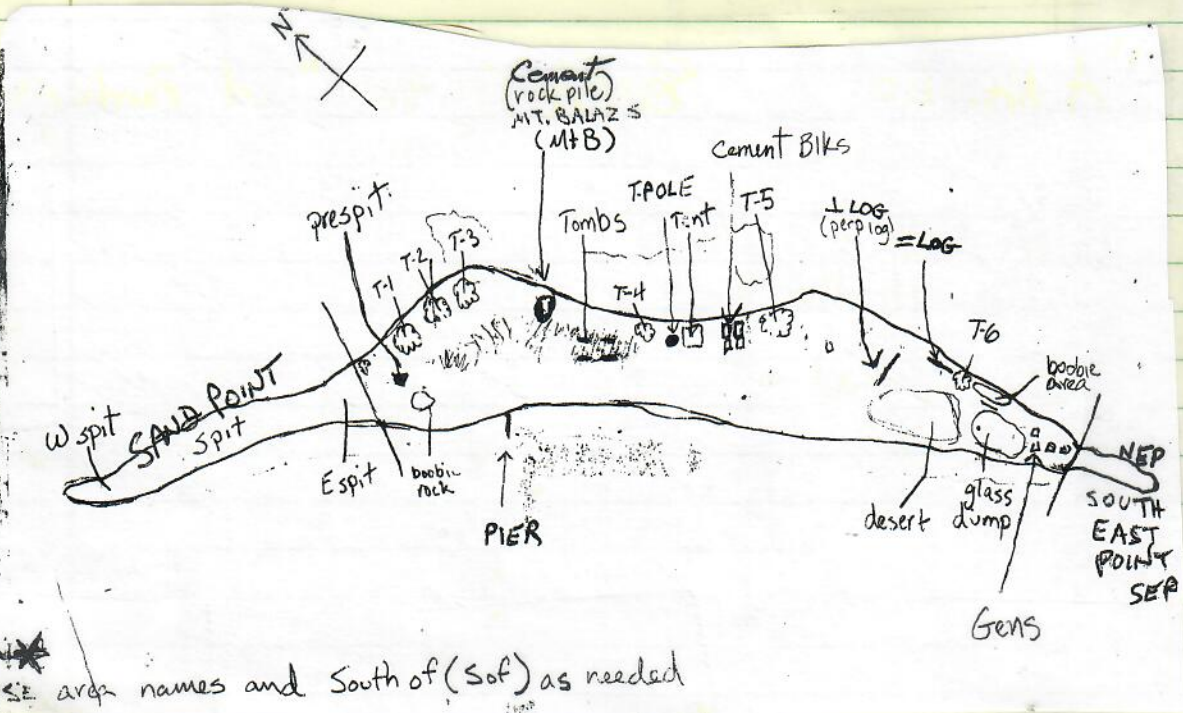


5-27-03





ON THE WAY TO NAGOYA APRIL 2003






3

Alexander\_wegmann@r1.fws.gov  
Alex Wegmann - Biologist (Acting in charge  
of tern while we were  
there)

Aaron Dietrich  
Susanne Cuijs

NMFSmonk@aol.com

 "fried" chip from one of  
Daniel's cameras.

call  
Telenor (via ComSAT) - speed/cost for jpegs?  
need to increase.

"A New Way to Sea(See) Turtles" A Birds eye View.  
Perched on a pole. Soaring in the sky.

KA MAKA O HONO  
Through the eyes of the Turtle.

East Island - Most important Beach for green  
turtles in Hawaii.



## SPECIAL TURTLES 2003

EAST  
INCONEL ISLAND  
FLIPPER TAG

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

NAMED TURTLE

612-C "HUXALI"

436-C "AKAHELE"

F-765 "MCTAGGERT"

2003 MOTO TOOEI 22-C "44" "TIAMAT"

U-164 "Lomi"

2003

See p. 122

All known from Hanohowai, MAUI  
Nearshore underwater resting area.

Please take full-body photos of these  
turtles - several of each from  
different perspectives.

## George Balazs Stuff:

- 1 large cardboard box, 3' antenna
- 1 long wooden container, metal poles
- 1 white plastic container with blue lid, Equipment from See More Wildlife
- 1 gray plastic bin, Equipment from See More Wildlife
- 1 large white cooler, misc. equipment
- 1 cardboard DELL box
- 1 cardboard box, Equipment from See More Wildlife
- 1 Panasonic cardboard box, 27" TV
- 1 metal gorill ladder
- 1 bundle, chair, shower encl., pup tent
- 1 green Seal-line bag, Marc Rice personal gear
- 1 large black pelican case
- 1 cardboard view sonic box, misc. equipment
- 1 green Seal-line bag, George personal gear
- 5 plastic buckets with yellow lids, misc. equipment

N=19

East

GB

Hi George,  
We will take one day to get ready.  
One day to install the TX site  
One day to install the RX site  
One day to work out TX issues (if needed)  
One day to work out RX issues (if needed)  
One day to relax.

That's how I see things working.

Take care,  
Daniel



May 2002: 400 PIT tags to FFS + 2 TRACKER II's <sup>+1 Black Desktop 5 Reader w/charger</sup>  
 + Onset Stowaway & Tidbit loggers +  
 3 disposable cameras + 2 24 rolls print film  
 early June 113 PITs found at Tern by Aeon  
 6/15/02 250 PITs sent on flight to Tern via Domo

May 19th 2003 Joe Spring  
 Flight ERIN Green

- 500 PIT TAGS
- 3 TRACKER II PIT READER
- 3 X2 FLASHLITES
- DATA LOGGERS
- VARIOUS FORMS/EXAMPLES/MAP OF EAST
- AAA BATTERIES
- ENTRY LOGS - BINDERS
- APPLIANCE TOUCH UP PAINT (3)  
Acetone for MOTO TOOL  
INSTEAD OF SPRAY PAINT
- TIDE CHARTS
- COPY EXAMPLE OF 2002 FIELD BOOK
- MAP OF EAST

2003 DATA (TEMPERATURE) LOGGER LIST  
Deployment

- NEEDS LIST EXAMPLE
- EXAMPLE OF DATA LOGGED  
Deployment LOCATIONS (2000 SEASONS)

- SAND PAPER MOTO TOOL SPRAY PAINT
- ALCOHOL BEFORE MOTO TOOL - if "need" dont do.



## End Points for French Frigate Shoals Tracked Green Turtles

N=

ID Code	Date deployed	Deployment location	SCL (cm)	CCL (cm)	Sex	Tag nos.	Mototool no.	Tumor score	Arrival location	Date terminated
GREENS										
4800	8/06/92	East, FFS - N	87.0		F	U260		0	Kaneohe Bay, Oahu 21.49N 157.82W	12/24/92
4801	8/06/92	East, FFS - N	85.0		F	U236		2	Kaneohe Bay, Oahu 21.61N 157.90W	5/19/93
4802	8/01/92	East, FFS - N	91.0		F	U306		Need	Johnston Atoll 16.73N 169.53W	2/22/93
4803	8/30/93	East, FFS - N	90.1	97.0	F	U273, U274, U275, U276		1	Kaneohe Bay, Oahu 21.47N 157.81W	1/15/94
4804	8/25/93	East, FFS - N	90.4	96.0	F	U204, U205, U283, U285	S-141	1	Kaneohe Bay, Oahu 21.49N 157.83W	1/8/94
22125	6/7/95	East, FFS - B	86.0		M	Need		0	Panahaha, Molokai 21.07N 156.94W	12/25/95
22132	9/23/95	East, FFS - N	98.0		F	A769, U773		0	Ewa, Oahu 21.31N 158.02W	7/6/96
22133	6/7/95	East, FFS - B	87.0		M	6038		0	Kahului, Maui 20.94N 156.38W	7/31/95
24195	9/07/97	East, FFS - N	94.0	101.5	F	A734, 9289 9312, 199C	V82	0	Makaha Point, Kauai 22.15N 159.74W	12/30/97
24196	9/08/97	East, FFS - N	81.8	89.0	F	6T, 7T, 9T	None	0	Lelewi Point, Hilo, Hawaii 19.73N 155.02W	5/27/98
24197	9/09/97	East, FFS - N	95.0	89.0	F	746T - 749T	V511	0	Last signal 21.39N 162.19W	10/6/97
24198	9/10/97	East, FFS - N	87.5	94.0	F	573T, 15T, 16T	V426	0	Kahului, Maui 20.90N 156.46W	11/20/97
4800	9/3/98	East, FFS - N		97.8	F	Need	4800	Need	Mala Wharf, Lahaina, Maui 20.89N 156.68W	6/20/99
24192	9/02/98	East, FFS - N		99.7	F	Need	D100	Need	Kahului, Maui 20.89N 156.54W	5/28/99

HawaiiFFS\_Transmitter.xls

Page . Screen

Compiled by DMP  
2/4/03

## End Points for French Frigate Shoals Tracked Green Turtles

ID Code	Date deployed	Deployment location	SCL (cm)	CCL (cm)	Sex	Tag nos.	Mototool no.	Tumor score	Arrival location	Date terminated
24194	9/3/98	Tern, FFS - N		101.5	F	Need	D70		Kahului, Maui 20.95N 156.38W	5/23/99
25694	9/02/98	East, FFS - N		101.6	F	Need	D96		Ewa, Oahu 21.28N 158.07W	7/24/99



End Points for French Frigate Shoals Tracked Green Turtles

ID Code	Distance traveled	Transmitting days	Mean Speed of Travel	Date ST resighted	ST resighting location	Date ST retrieved	Retrieval location
GREENS							
4800	1130 km	140				11 / 6 / 02	By GHB - Kawelo spot - 21.483N 157.835W
4801	1260 km	286					
4802	830 km	206					
4803	1180 km	138					
4804	1100 km	136				6 / 00 / 97	East, FFS - N
22125	1050 km	201					
22132	1050 km	286	1.8 km/hr				
22133	1200 km	54		6 / 00 / 97	East, FFS - B	6 / 00 / 97	East, FFS - N
24195	3936 km	114					
24196	1721 km	261					
24197	541 km	27					
24198	1297 km	71					
4800	1279 km	290	1.8 km/hr	7/1999 2000	Mala Wharf, Lahaina, Maui Jodo Mission, Lahaina		
24192	1351 km	268	1.7 km/hr				

End Points for French Frigate Shoals Tracked Green Turtles

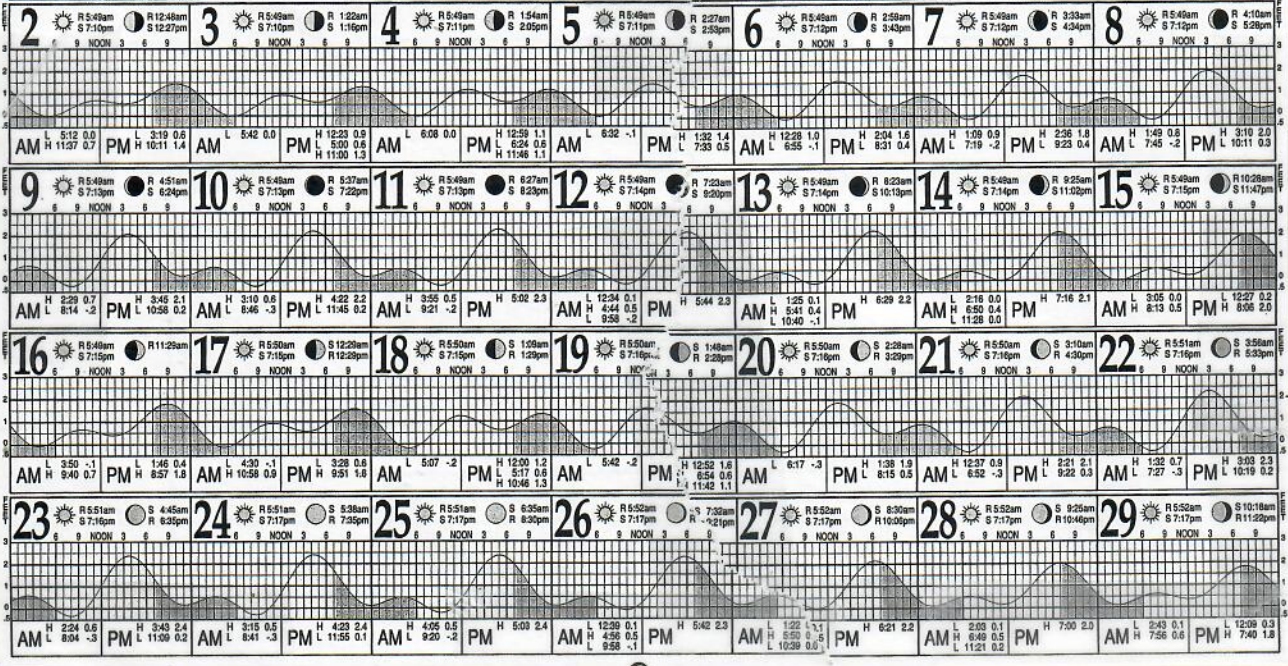
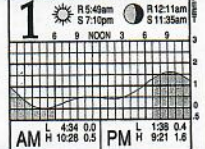
ID Code	Distance traveled	Transmitting days	Mean Speed of Travel	Date ST resighted	ST resighting location	Date ST retrieved	Retrieval location
24194	1166 km	262	1.9 km/hr			Summer 2002	Tern Island, FFS
25694	997 km	325	2.5 km/hr				



# JUNE 2002

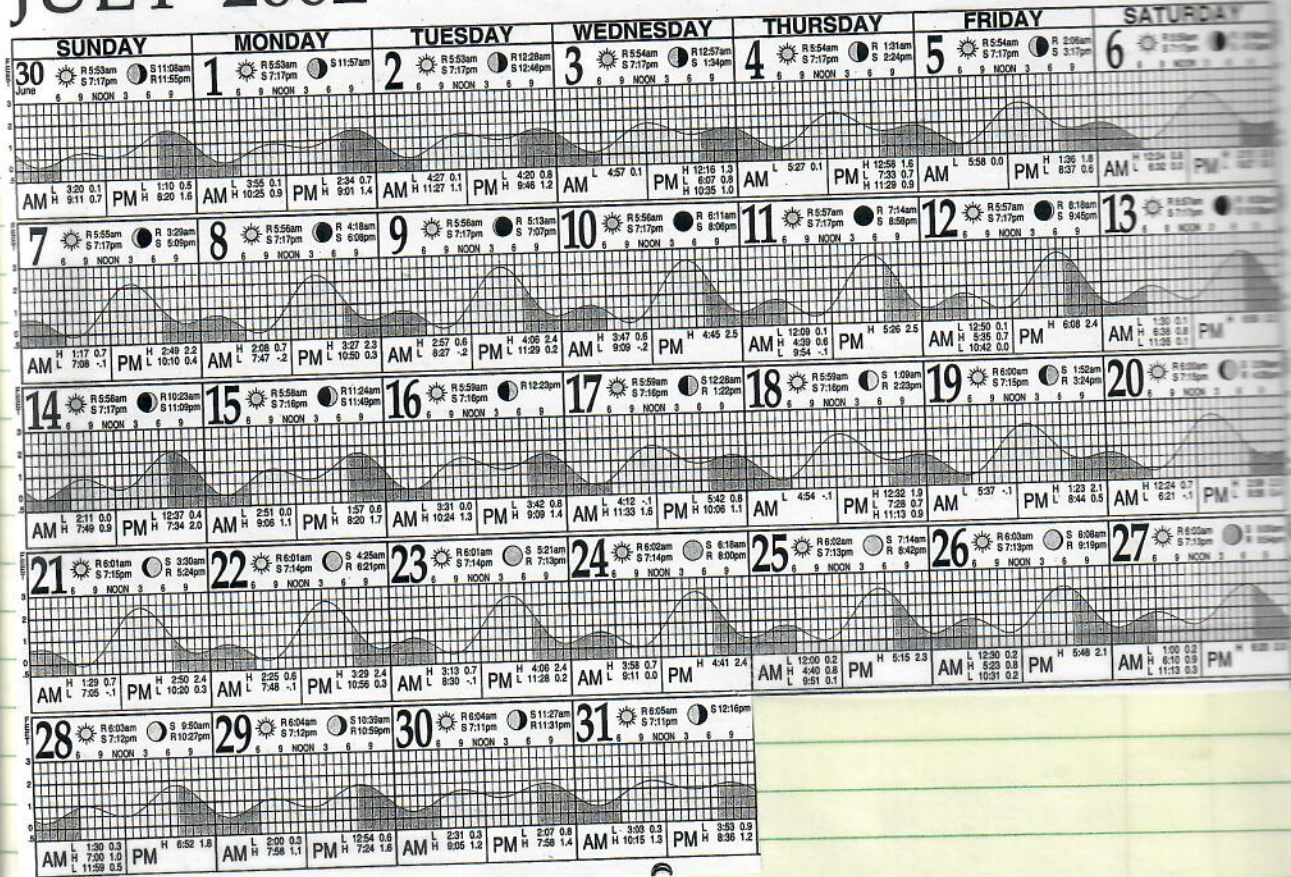
SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

Commercial fishing vessels are required to carry distress signals. The type and number of distress signals required depends on how far off shore you go. For more information, call the Coast Guard Marine Safety Office at 522-8255.



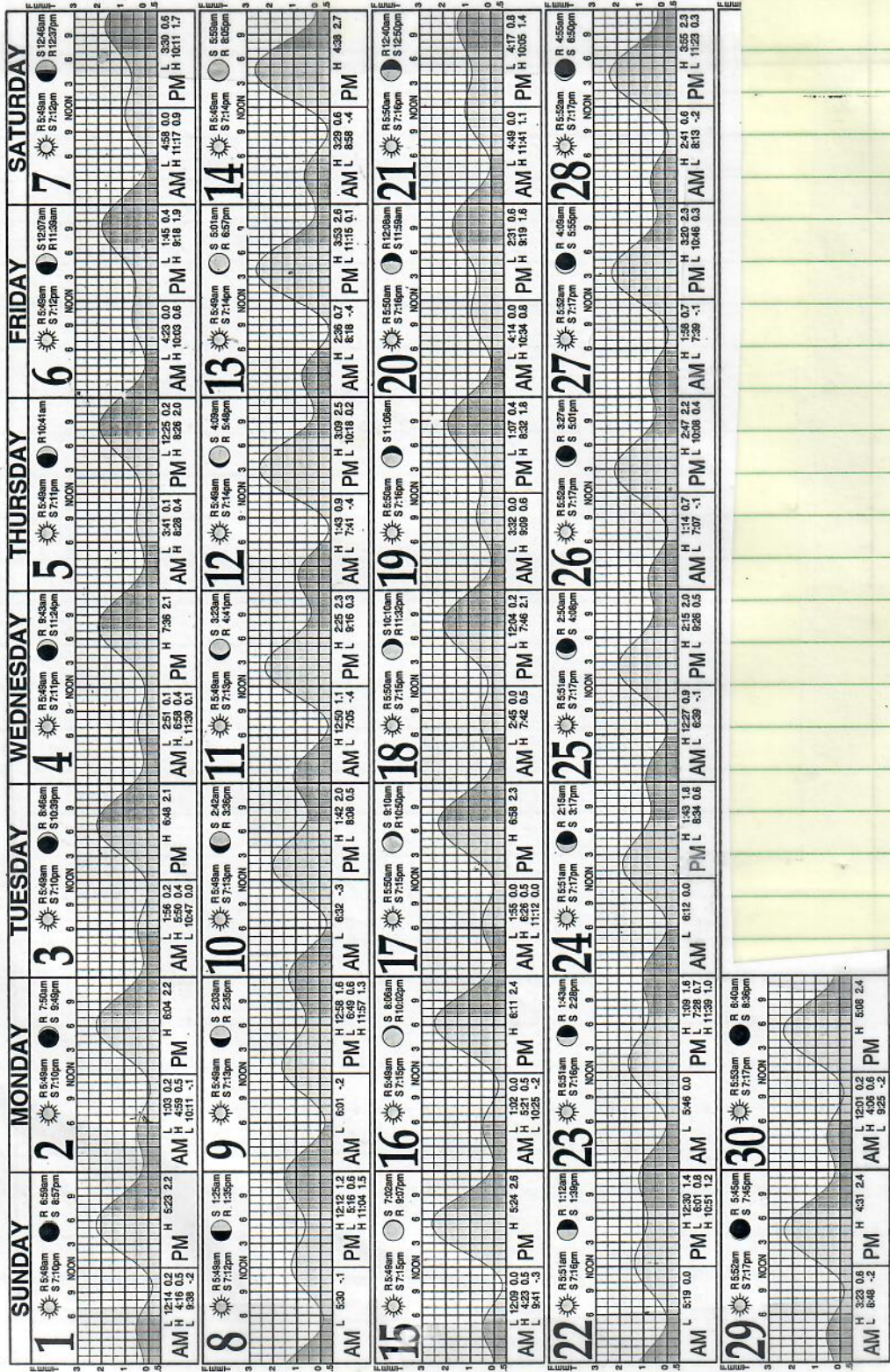


# JULY 2002





# JUNE 2003





# MAY 2003

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>4</b></p> <p>R 8:14am S 10:07pm H 8:21 2.0 L 1:03 0.3 PM</p>	<p><b>5</b></p> <p>R 8:58am S 11:04pm H 8:21 2.0 L 1:03 0.3 PM</p>	<p><b>6</b></p> <p>R 9:58am S 12:04pm H 8:05 1.8 L 1:51 0.1 PM</p>	<p><b>7</b></p> <p>R 10:58am S 1:04pm H 8:05 1.8 L 1:51 0.1 PM</p>	<p><b>8</b></p> <p>R 11:58am S 2:04pm H 8:05 1.8 L 1:51 0.1 PM</p>	<p><b>9</b></p> <p>R 12:58am S 3:04pm H 8:05 1.8 L 1:51 0.1 PM</p>	<p><b>10</b></p> <p>R 1:58am S 4:04pm H 8:05 1.8 L 1:51 0.1 PM</p>
<p><b>11</b></p> <p>R 2:58am S 5:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>12</b></p> <p>R 3:58am S 6:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>13</b></p> <p>R 4:58am S 7:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>14</b></p> <p>R 5:58am S 8:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>15</b></p> <p>R 6:58am S 9:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>16</b></p> <p>R 7:58am S 10:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>17</b></p> <p>R 8:58am S 11:04pm H 7:09 1.9 L 2:48 0.3 AM</p>
<p><b>18</b></p> <p>R 9:58am S 12:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>19</b></p> <p>R 10:58am S 1:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>20</b></p> <p>R 11:58am S 2:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>21</b></p> <p>R 12:58am S 3:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>22</b></p> <p>R 1:58am S 4:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>23</b></p> <p>R 2:58am S 5:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>24</b></p> <p>R 3:58am S 6:04pm H 7:09 1.9 L 2:48 0.3 AM</p>
<p><b>25</b></p> <p>R 4:58am S 7:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>26</b></p> <p>R 5:58am S 8:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>27</b></p> <p>R 6:58am S 9:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>28</b></p> <p>R 7:58am S 10:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>29</b></p> <p>R 8:58am S 11:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>30</b></p> <p>R 9:58am S 12:04pm H 7:09 1.9 L 2:48 0.3 AM</p>	<p><b>31</b></p> <p>R 10:58am S 1:04pm H 7:09 1.9 L 2:48 0.3 AM</p>

Personal Flotation Devices (PFDs) are also known as Life Jackets. When buying a PFD look for a label that reads, "Coast Guard Approved." This ensures that the PFD has met the Coast Guard minimum standard for safety.

BASH 3 PM  
18 SEP  
48 SEP  
6 SEPT

DEPARTURE  
1:30 PM  
for  
Honolulu

PM only  
VIA BUS  
CBI RICE  
and FORWARD

Wednesday

Tuesday

on call

on call

DEPARTURE  
1:30 PM  
for  
Honolulu

PM only  
VIA BUS  
CBI RICE  
and FORWARD

Wednesday

Tuesday

on call

on call



Date: Wed, 21 May 2003 18:27:49 EDT  
 From: Hinwr@aol.com  
 To: gbalazs@honlab.nmfs.hawaii.edu  
 Cc: Don\_palawski@r1.fws.gov  
 Subject: Turtles

Hi George,

All going well. Erin and Joe working hard and looking like great team. We built the new platform on East Is. yesterday while Erin and Joe worked on getting the gear organized etc, and are expecting to set up the East Island camp tomorrow (Thurs). See you Friday morning.

Aloha, Steve *BARLEY*

Date: Wed, 21 May 2003 16:29:00 EDT  
 From: Hinwr@aol.com  
 To: gbalazs@honlab.nmfs.hawaii.edu  
 Subject: Update from Turtle Techs

Hey George,

So far, things are going really well! We've gotten almost everything packed up and ready to go and will be staying the night on Thursday. The tent platform was set up today and the NMFS crew is heading over tomorrow and will be

taking a few things to lighten the load for Thursday. Is it ok if we stay Thursday AND Friday night or would you rather that we meet you at the plane on Friday? Since we'll be working days with you after Saturday the plan for Thursday and Friday is to only partially switch to nights. We'll still sleep during the day, but skip the first and last walks since they're not crucial to the data set. Sound good? While packing, we found 48 old pit tags that we'll be using, so add that to the 500 count.

I have a favor to ask. Can you buy two pairs of gloves for me? I didn't ask you earlier because I own two pair that I was going to bring out, but couldn't get my hands on them when I was packing. I got them from ACE hardware and they are grey knitted gloves that are dipped in blue grippy stuff. I found a pair out here like them (wrong size) and the name brand is Atlas. The brand name doesn't matter, they just need to be that style in a size small. (Just

NOT those yellow dive gloves with the grips, please) The NMFS Seal team uses some similar to the ones I'm looking for if they have a better source than Ace. Hope all is well with you...see you Friday!

Erin and Joe *Spring*

*Green*



Need ~~groups~~ Resighting at Lisianski

5/28/03

8666

Left for flipper  
subadult size

♀

Not full grown

Basking

18 May 2003 Ashore

Lisianski Island

Alex Wegmann

Biologist Terns  
Island FFS

or could it have been "9998"?



TAXI TO LAGOON DRIVE #35

5/23/03 Depart 7:15am For Tern  
Friday Marc Rice, Daniel Bartz, Howard Schatz,  
Bob Justman / Howard Copilot + 95 lbs gear

Flight was about 10:30am - flew close to NITOA,  
rechecked later on the night - video taken -  
5:22 Marc also video into FFS - east in the  
distance. ERM and JOE on east last night failed  
for Bob first night of training - 14 turtles I.D'ed.  
Video of Bob Justman departure - spent  
reminders of day disassembling gear  
and installing received station on top of  
Tern building - (wind speed and direction).  
Dinner vegetables with sage and peanut by Brenda  
sauce. Lemon crisp desert. Becker

About 10:30pm Marc and I walked  
to end of Tern to sand spit. few digs or tracks  
present. 1 or 2 ♀ bashes - no PIT tags or metals on HF's  
Couldn't walk on South beach from east to west  
2 #2's dried normal like skin & shoulders

5/23/03  
10:30pm  
MARC  
& George  
walk on  
Tern

F 357 RFL nesting female - Tern nest to  
A 98 R H border of Tennis court.

4 Seen - 2 ♂<sub>bash</sub> 1 ♀ bash, 1 ♀ nest  
3 Scanned - no PIT'S  
UNSUCCESSFUL  
went back to sea

Beach was awash - considerably eroded  
away + holes + wave wash goes right  
into Messerschmida hence no where  
to walk.

Marc and I walked runway looking for  
a place to cut across to beach but  
sooty tern presence prevented entry.  
TO Bed about 11:30pm.



Accomplished 5/25  
 Need Cleanse scrub pad  
 Need Pelican 4000  
 Need for Macove  
 250' Compost  
 2) 20' 2' F connected  
 3)

5/24/03  
 Saturday Trip to East for installation on pole. Departed  
 about 9 AM - "Tom Barge" & FWS whale  
 Steve Barkley, Trevor Mac, Daniel Kennedy, J. drive  
 "Tom" filled with gear - Smooth seas - followed  
 up side of other boat. ERN and Joe. oyleaff in tent  
 bottom used for tent for the first time.  
 Proceeded to install batteries, solar panel,  
 moths, board etc. FIRST picture seen  
 aimed at us - tent to Tom 10:43 AM -  
 Both Trevor & Daniel climbing ladder and  
 up rings. Many photos/video.  
 Phoned net by Benethan satellite phone.  
 3 PM walked around island (905) 826-6564  
 Toronto Canada

5/24/03  
 4:30 SEP  
 6:30 SEP  
 Maybe 10 offshore SEP  
 2 cameras up pole installed  
 4 PM - First pictures of turtles - viewed on  
 small casio TV.

Departed East with ERIN ~ 5:30 PM. Joe the phone  
 through Round  
 During the day Mac and I came back to  
 Terry - 2 log off in boat - More picked  
 up items - I walked back out old gap  
 in reef and via Round Mullet.  
 7 PM viewed East from Terry.

Dinner 8:30 PM chicken pie by ERIN  
 Walked to end of Terry w/ Mac



Memorandum  
5/26/03 1614h  
Monday

Another  
Logger  
Term

SAU  
Loggers

MINIMIZE  
East walks -  
Don't follow  
our example

north  
Term #1  
Shell Beach sand  
Tied to coral Boulder  
#14198 STOWAWAY  
Photoby  
MARC

Buried  
loggers  
w/MARC  
& KOMPAD  
& me  
+ Malew/defomed  
Hump Carapace.

1700h Tied to  
wooden stake  
South Beach  
TERN #2 #144073

2 Basking Together East sand beach First nesting opening  
South Beach  
Term #3 SA #557684  
Tied to  
ground  
rod  
7:10 PM 400m west of Segus  
photo  
photo

5/25/03 Daniel & Conrad tried 2 cameras  
Sunday Full. Depart for East ~ 12 noon.  
Spent day there until ~ 5:45pm - back  
to Term. On way over the 25h p.p. wide  
came off - almost into sea. At East the  
#2 camera was raised to ~ 65ft level  
(total 65-70ft) upper turtles, lower turtles is  
#1 camera at ft pole elevation.  
Many photos & video. Joe on Island 2006 night  
alone. Joe stickers put on.  
Very pleased with higher altitudes - excellent coverage

1:30pm  
East  
15 SEP  
4:25 SEP  
12 SEP

Walked to end of Term - East Beach w/MARC.  
Couldn't walk South beach - heavy birds.

5/26/03 DAYTIME  
MARC & I walked South beach of Term -  
Video & stills - 6 Probable good nests counted  
7 seals



24hr Time

Video TAPED Session  
w/ Daniel 7-8 PM

5/26/03  
Monday

Power Management → System as  
in 10+ sec → picture

~~Menu~~ Interface of the interface · schedule  
Intel schedule interface · schedule  
Schedule camera moves

Auto function - picture here also

Daniel, Karod, Maxime cooked dinner.

5/26 I walked to end of Tern Alore ~ 11 PM

East sand bar beach - bath = 2 ♂ + 1 ♀; 10 ♂ 1 ♀  
(took print photos of each turtle I @ pentax) ; BASK SOUTH BEACH

software  
install  
changes  
assist  
up by  
Bird  
population?

Proceeded along South beach alone -  
Encountered lots of ghost crabs \*\*  
veal student, MS thesis to do crab  
predation study - combined with cameras?  
lots of tracks - up down and around lake.  
MEGGS?

7/26  
11 PM  
NO  
moon

Nesters encountered: I untagged;

1 DICKING (103501 RFL  
874-T RH)

1 EGGS (65-T RH  
64-T LH) SCL ~ 90cm

1 Crawling (to nest) NO TAGS

1 Crawling (G130 RH  
G131 LH)

1 EGGS NO TAGS

11 NEW  
14 TOTAL → EAST 5/26/03

~ 11-1145 PM 5 TOTAL

sand erosion along South beach - see video + prints  
limestone exposed - some of it soft.



Need CJD's Ant

5/27/03 JP ~ 7AM

Tuesday

Calm Seas again so far today.

25 hp put back on Horn Breeze by Ardon, through-bolt NMFs  
40 hp Yamaha (no oil needed, no gas) belongs to FWS.

Departed for East ~ 1230pm

During the morning we put in 27" TV - table in  
NMFs room adjusted.Hit a 10' tiger shark with skeg of 40hp  
out of Tern near Rusty's Buoy.  
Very calm seas, <sup>10 knots</sup>At East Daniel took down "upper turtles"  
camera and in the process "fried" the chip.  
Taken down and back to East - chip  
taken from 3rd camera to make it work.

see page 96 &amp; 97

At East Harold put up American flag -  
Marc and I buried 4 loggers  
for soil. Also recovered 3 from post  
of other deployments.

Returned about 4 PM to Tern.

Basking Turtles 5/27/03 Tues. day

	NEP = 8	(3 IW)
2 PM	SEP = 24	(14 IW)
	SP = 6	

	EAST TOTAL	38
Joe off Island		
ERW/OW		

Departed East early <sup>Camera #3</sup> upper Turtle ("Top Turtle") chip burned  
out. Daniel & Harold repaired it.



height of "lowest turtle" = 40ft.

5/27/03 ~ 1045pm Marc and I walked to  
Nes. east end of Tern then along South Beach  
working up turtles.

1103PM Saw <sup>(1)</sup> Mototool 33" (from East) crawling on East Beach,  
2 Pit tags present - one in each hind flipper.

(1) First nester encountered: CCL 97.5cm (RH)  
Tern S. Beach new PITS:

(ORIGINAL  
Field notes  
p. 63)

5/27/03  
Tern ↑  
S. Beach ↓

New



442F594A60

442C785C20 (LH)



(2) Second Nester: CCL 98.0cm

Depressed  
at of these.

New

442F0E201A



(LH)

(3) Third Nester: CCL 98cm  
old PITS: 413603381E (LH)  
4135771E36 (RH)

(4) Fourth Nester: old tags 65-T, 64-T  
CCL 91.5cm

\* (5) Fifth Nester: old tags W568 (3-4 position)  
W567 (3-4 position)  
CCL-100.0cm

W1055



South Beach ~~72RN ISLAND~~ Nesting Females  
- MARC Rice & GB  
May 28, 03 Wednesday Night

hour  
2301

#4

442F697220

LH

new



RH

442C7C2C28

cce = 93

2312 hour W567 - Closing  
egg chamber - up last night.  
5/29/03  
on Tern's s. Beach

#1

LH 50287D5900

RH 500F1D1E15

cce = 93

#2

hour

2242 H cce = 92

#15 MOTO TOOL in body pit

→ Y629 / Y628 / Y627 RF

#3

hour

cce = 101.5

442D063749

LH

new

442D722E44

RH

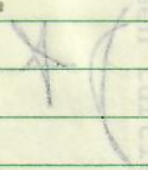
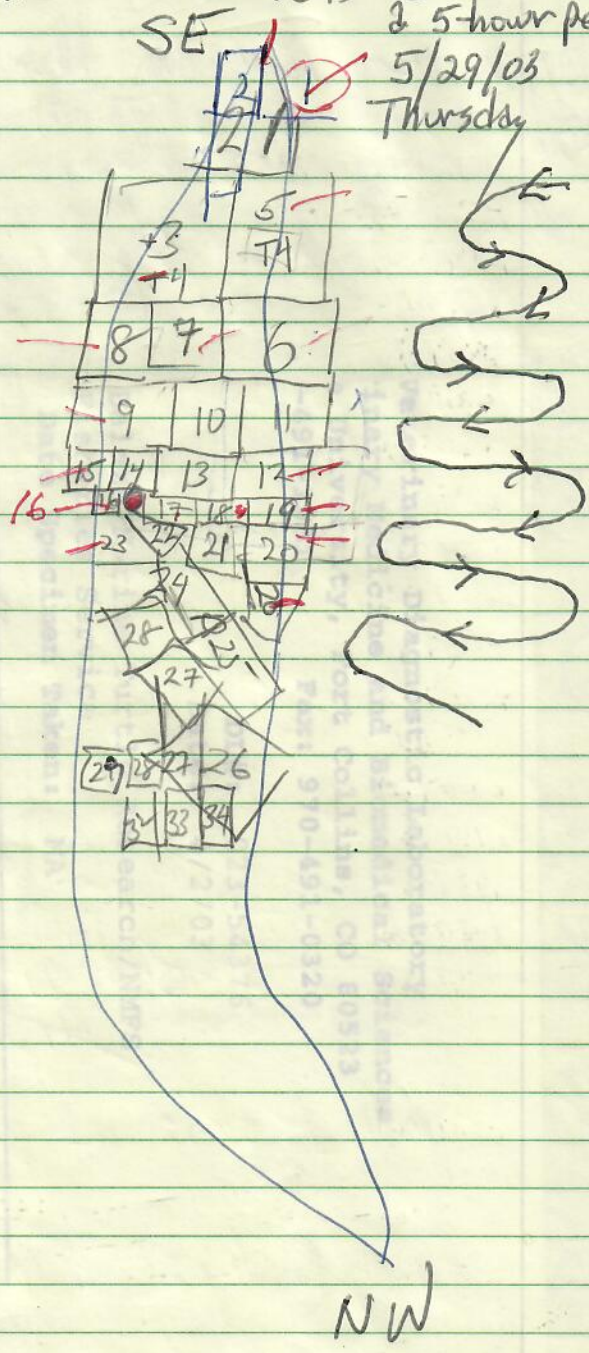
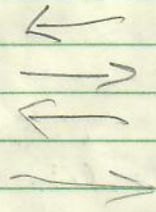




BALAZS & MARE

- Presets Done over  
SE 2 5-hour period  
5/29/03  
Thursday

9/26/04



4. Q1115 K18756 green turtle. This turtle  
18. green turtle. This is a picture of  
from the first shoulder. It is possibly this  
its shape. The head and neck are  
behind dorsal organs and a mild increased  
e. tentia. No evidence of tumor was found



from west

from right - stop at sticker  
request off 360 sticker  
5/29/03

Camera 3

Top camera top turtle

Camera 1  
Lower turtle

- |                        |      |                            |
|------------------------|------|----------------------------|
| ✓ P1 - SEP Basking     | →    | (T5) P1 - SEP Basking (T5) |
| ✓ P2 - (T5) NEP        |      | P2 (T5) NEP                |
| ✓ P3 - (T5) -          |      | P3 - (T5) -                |
| ✓ P4 (T4) -            |      | P4 (T4) -                  |
| ✓ P5 (T4) -            |      | P5 (T4) -                  |
| - P6 (T4) -            |      | P6 (T4) -                  |
| - P7 (T3) -            |      | P7 (T4) -                  |
| - P8 (T3) -            |      | P8 (T3) -                  |
| - P9 (T1) -            |      | P9 (T1) -                  |
| ✓ P10 (T1) -           |      | P10 (T1) -                 |
| - P11 (T1) -           |      | P11 (T1) -                 |
| - P12 (T0) -           |      | P12 (T0) -                 |
| - P13 (T0) -           |      | P13 (T0) -                 |
| - P14 (T0) -           |      | P14 (T0) -                 |
| - P15 (T0) -           |      | P15 (T0) -                 |
| - P16 (T0) - pole down |      | P16 (T0) -                 |
| - P17 (T0) -           |      | P17 (T0) -                 |
| - P18 (T0) -           |      | P18 (T0) -                 |
| - P19 (T0) -           |      | P19 (T0) -                 |
| - P20 (T0) -           |      | P20 (T0) -                 |
| ✓ P21 (T0) -           |      | P21 (T0) -                 |
| - P22 (T0) -           |      | P22 (T0) -                 |
| - P23 (T0) -           | same | P23 (T0) -                 |
| - P24 (T0) -           |      | P24 (T0) -                 |
| - P25 (T0) T2          |      | P25 (T0) -                 |
| - P26 (T0) T3          |      | P26 (T0) -                 |
| - P27 (T3) -           |      | P27 (T2) -                 |
| - P28 (T3) MT. Balazo  |      | P28 (T3) -                 |
| - P29 (T2) shoreline   |      | P29 (T3) -                 |
| - P30 (T4) -           |      | P30 (T3) MT. Balazo        |
| - P31 (T4) -           |      | P31 (T2) shoreline         |
| - P32 (T4) -           |      | P32 (T4) -                 |
|                        |      | P33 (T4) -                 |
|                        |      | P34 (T4) -                 |



TOP TURTLE  
Top Camera

Presets (39 each)

Lower Turtle

P33 (T4) - Point

P34 (T4) -

P35 (T4) - Point

4 left.

||

P36 (T4) entire west end T0

P37 (T4) Laferrouse T4

P38 (T4) NEP Shark waters

P39 (T4) entire SE end

Log

P35 (T4)

P36 (T5)

P37 (T5) - Point

P38 (T5) - Point

1 Left

P39 T0 west end



5/29/03

Need Clock

TOP - <sup>twice</sup> Camera 3

25

Lamp Timer 530 a.m.

Auto Prop - 558am

" " 659am

700AM Remote Control Panel

~~930PM~~

6-65am

8-815am

etc.

Shift - still image = folder of pictures

\* Video demo

\* - Do Both scans ✓ to check -

\* " stickers on micro ID + DO NOT TOUCH

DO NOT TOUCH!

\* states:

SNOW = Microwave <sup>antenna</sup> on Roof Receiving but no image

Black = nothing from Roof micro Antenna

Black w/ something = signal from East but no picture video

Picture C = all ok

\* make eps = once a week - Look AT CD'S TO confirm VCR - use as a backup.

\* Velcro strips for towels

Personal Safety; Arrival of birds; Eggs, etc; Winter storm conditions  
going  
Marine Debris floating in

- flies  
- crabs

- Reflector Balls -

~~need~~

Chrome plated (Rear view stick on mirrors)

Foil Streamers - worth trying



5/29/03 ~ 230pm ~~at~~ toward More and I  
 Thursday departed for East via Whale-Shale  
 Sand Bar. Calm seas, calm since  
 we've been here. Motored into W-S with  
 old iron to right - barge landing craft "dors" from  
 old pictures. Low tide but almost nothing above  
 left water. Toward island there is some emergent  
 coral rock. "W-S" gravel is only ~ 10% of  
 former island. 6-8 turtles basking.  
 Washover w/ small waves. Personel says  
 that sand bar is already starting to wash  
 away in recent weeks since it was  
 former part of this summer (year). Motored  
 from W-S to East, east of Roundabout  
 Mullet. on East we took "Goilla" ladder  
 to SEP to climb and film/photo 40 basking  
 turtles. Loaded debris from around pole  
 to take to Tem. Talked with Erin Green  
 + pictures. Put "Sea Turtle Cam" stickers sealed  
 in plastic on top of wooden box. Arrived back  
 at Tem ~ 6pm.

Corn soup for dinner.

Daniel stayed on Tem pm to fix software bugs.

BASKER COUNT ON EAST 430pm:

41	SEP
16	NEP
57	



Things Konrad & Daniel fixed at Station:

Walked Tern Beach south to encounter nesters:

MARC Soespring and GB  
5/29/03

Thursday Night  
Lem S. Beach

R314h

1 male Bunker

10:30 - 11:40 AM

2319h

♀ LH



442D3D2D1A

new

Nesting RH



442D0A4D64

new

No ccl taken

female

1135-hour Nesting Female  
♀ ccl - 104.5 cm

RH - 4135661212

EXISTING

LH - 413566706C

PIT TAGS

14RN ISLAND  
NESTERS  
5-29-03  
7



Digitally  
Scanned  
30

## Sea Turtle Cam - Promising Uses

- Census basking turtles as an index of abundance of annual nesting.
- Nesting excavations each day as an index of annual nesting abundance.
- Number of turtles ashore ~~late~~ early evening (dusk) and ~~the~~ dawn early morning as an index of annual nesting abundance.
- Census copulating pairs in April/May as an index of annual nesting abundance.
- Better determine time schedules of arrivals and departures for nesting (and copulating).
- With addition of IR illuminator, census nesting turtles during night time (on subset of the island due to power needed).
- Document and possibly quantify predation levels on hatchlings by ghost crabs (2+ species) and fish.
- Monk SEAL numbers, arrivals, departures, births and behaviors.
- Sea bird abundance, arrivals, departures, and behaviors.
- Vegetation changes.
- Shoreline changes (erosion and accretion).
- Storms (wind/waves/high tides) and their effects on the island & wildlife.
- Arrivals and departures of Marine Debris (nets, lines) - timely management response.
- Personnel safety monitoring.
- Shipwreck survivors - rescue.
- Trespass violators Monitoring.
- Insects/flyes on basking turtles.







































5





Date: Sat, 21 May 2003 15:04:14  
From: Robert W. Palmer <rpalmer@hawaii.edu>  
To: RIMM@hawaii.edu



From: RIMM@hawaii.edu

Subject: strength

Want to see the

video?

Let me know

when you are

back in the office

and I will send you

the link.

Thanks,

Bob

Bob

ing I  
of the  
of the  
station  
May 2003  
I will be  
in the

Hi, I've just got out so you remember and here are the preliminary  
results. I've been out for a few days and the weather is not  
so good. I didn't pull much because of a cold. Luckily, a helpful albatross pulled  
that one from the ground and was playing with it! Is it a HAWK that all  
of the birds aren't going out and all aren't coming back within that 24 hour  
window that you were hoping for? Is this going to be an all season thing or  
just a one time thing? I'm not sure. I just thought I'd let you know.

Just to let you know, I saw a turtle in the water today. It was  
the telephone pole this morning. I took four pictures, two of which have the  
hole open with the turtle coming down and the turtle in the background.  
The other two are of her eggs and her nostrils. Just thought you'd get a kick  
out of that!

I'll check email later and let you know what you decide.

Thanks,  
Bob







Date: Sat, 31 May 2003 13:46:34 -1000  
From: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>  
To: Hinwr@aol.com  
Subject: Re: From Erin

*Reduce*

VERY VERY cool about the turtle nesting in front of the pole and getting pictures-- I'm delighted! Get more of 44 Tiamat also when she comes back for next nesting.

It was a great time up there, thanks so much to both you and Joe for all your help and hospitality.

I just sent a message to monk seals to ask them to as you to call me. But now that's not needed I don't believe. Here's what I needed to tell you. Discontinue the flags on the nests. We reevaluated via the camera on Friday a.m. and they are not sufficient. We need something that reflects light- like a "mirror-coated" golf ball. I'm going out shopping today and if I can find something I'll send them up on tomorrow's flight. But chances are likely not good. Bottom line though, discontinue flags immediately.

Sandpaper. I likely gave you too coarse a grade of sandpaper. If you can find finer (maybe #70 or 80) try it. What you have now is #50. Sandpaper is to the left of the door west end of northern wing of the building (down from my room 19). If finer sandpaper doesn't do it ok, then discontinue altogether.

Alcohol on flipper before doing pit tag. IF squirting the alcohol turns into a "muddy" mess (due to organic dirt dust on flipper) then don't use it. Don't squirt alcohol. Don't use anything. Not needed.

During your last 2 weeks on East, please respray the mototool. Do not regrind, just an added spray of paint.

More soon, Aloha and Mahalo, George  
PS When sending emails, please include updates from the daily totals, the first two columns only (total up, total new) so I can see how things are going.

Re logger deploys I did plus taggings I did on Tern, time didn't allow me to make copies proper for you-- will send them up to you, but not on tomorrow's flight.

Date: Sat, 31 May 2003 19:01:42 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: From Erin

*Reduce*

First, in my defense.... I tried to call you on the sat phone, but the signal strength was too low. : ) This is not an emergency, but just something I wanted to let you know about. I told Joe not to use the sand paper on the carapace until we hear what you think. I've used the paper to take off the excess

paint on new turtles and resights and it does provide instant gratification, but the number is not as crisp. The mototools that come off in the water flake off of the smooth part of the shell and stick in the groove providing a nice crisp lettering. The mototools that we "sand off" appear white washed and the depth becomes less deep. I wet one this morning to see if it was just because the turtle was dry and the image did not improve. I don't know how often

you're getting satellite feeds of the images, but I think we should let the paint come off in the water.

Also, I put the flags out as you requested and here are the preliminary results. I couldn't put a flag on one nest due to the presence of a seal and I couldn't pull another because of a seal. Luckily, a helpful albatross pulled that one from the ground and was playing with it!! Is it a HUGE deal that all of the flags aren't going out and all aren't coming back within that 24 hour window that you were hoping for? Is this going to be an all season thing or just until you guys are satisfied with the "ground truthing"? Just curious.

Lastly, and just for fun...there was a turtle (# 71) nesting just in front of the telephone pole this morning. I took four pictures, two of which have the box open with the turtle cam logo showing and the turtle in the background. The other two are of her eggs and her mototool. Just thought you'd get a kick out of that!

I'll check email later and let Joe know what you decide.

Aloha,  
Erin



5/27/03

LH 413603381E #3

RH 4135771836 ccl 98

#4 65T, 64T

ccl = 91.5

W568 #5

W567 ccl = 100cm

see page 19

#6 ♀ sleeping on beach

#7 LH-50287 D5900

RH-500F1D1E15 ccl=93.5

#2 shaved Tumor -  
Right Hip

#8 Heavy protrusion Right FF

RH 4135206E1B

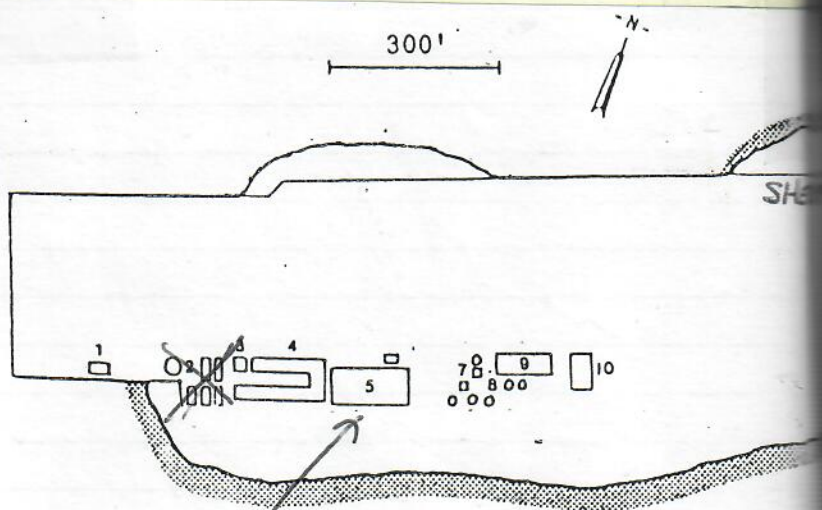
LH - nothing ccl = 102.5

#9

F377-LH ccl = 99

F378-RH

No Tools  
 33 5/27/03  
 2 pits 1103PM confirmed  
 East bank of PITS  
 Sand bar Tern



Tern Logger  
 #4 5/30/03  
 BY MARC RICE

1. Boat House
2. Fuel Oil Storage Tanks
3. Garage
4. Barracks-Subsistence Bldg.
5. Recreation Court

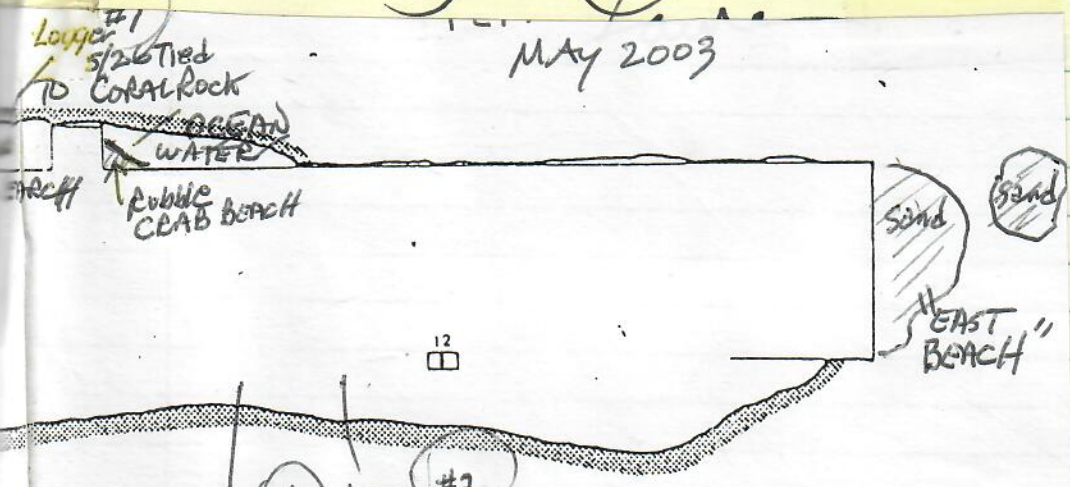
LONG GOLF



Laura Minichant  
6510 Topeka Rd  
McLean, VA 22101

Please send photo of Laura  
(usfws Volunteer) cleaning ono/wahoo  
by the dock - ~~and anything else~~  
~~that~~ THANKS! It's been  
fun having you on Tern!

MAY 2003



- 7. Pump House
- 8. Fresh Water Tanks
- 9. Signal Power Bldg.
- 10. Old Signal Power Bldg.
- 12. Storage Buildings (SEARS)



Date: Sat, 06 Oct 2001 12:47:32 -0700  
 From: Harry Emmett Finch <sunbro@mindspring.com>  
 To: George <gbalazs@honlab.nmfs.hawaii.edu>  
 Subject: GREAT TO HEAR FROM YOU

[ Part 1, Text/PLAIN (charset: ISO-8859-1 "Latin 1 (Western Europe)")  
 [ 97 lines. ]  
 [ Unable to print this part. ]

[ The following text is in the "iso-8859-1" character set. ]  
 [ Your display is set for the "US-ASCII" character set. ]  
 [ Some characters may be displayed incorrectly. ]

Greetings to You George, and you're Family.. It was sooo good to hear from you, and to know that you spent some time on that Blessed place. And, indeed! I will look forward to the Video, and absorb it like being there again..Hardly a day goes by, that I don't htink of The Shoals, and remember the sunsets, and that "perfect weather" -- as Captain Cameron said, on his visit there in the late 1800's.. You have done so much to strengthen my beloved memories -- and keep me in touch with the one place in my life that shall never be forgotten.. If ever there is such a thing, as past lifetimes in certain places -- The Shoals must have been visited by Hawaiians hundreds of years ago, and I must have been on the voyages, in those times..

Those clear fresh mornings, so far away from civilization, so lonely, and yet so close to God and Nature.. That is one place, where humans can feel the Eternity of Creation, and the never ending process of evolution working with the Creative Process.. For The Shoals are going through a change -- it's evolution, where it will eventually submerge (as it is going) -- But, if the Planet changes it's axis, as some Prophets predict, then the base of the Shoals will rise out of the sea, and The Shoals will be on a Mountain Top, with the coral reefs and deposits available to erode, wear and disintergrate, resulting from weather.. I once had a vision of that, and it showed the steel rip-rap of Tern as rusting in the sun, far above sea level -- a part of a mountain top..

Yes, Whale & Skate were good sized Islands in 1945.. Long and skinny -- yes, but fair sized.. It could very well be -- that East Island, huindreds of years ago, was quite large -- as were the other Islands.. But the slow submergence, along with rising sea levels, have permitted the currents and tides to wash away the sands.. Perhaps like the other submerged reefs farther up the line, towards Midway..That must have been a magnificent range of Mountains, millions of years ago, when they were above the sea. But Mother Earth changes, and the crude oil we get apd run on now, was once forests and Dinosaurs in some forgotten past. Will we be a part of a fuel supply of some far off generation?? I wonder..

The great tragedy, and attack in NY is but the beginning.. The next 5 to 6 years will be of great fear and panic by a citizenry that have been complacent, and arrogant.. Also, God-less in many ways, focused on money, prestige and power. Aborting millions of God's children, and all the rest.. And I wonder if This Highest Power isn't goin to let us learn a big lesson? I would not be surprised to see a nuclear attack, and Biological &/or chemical.. If this Nation doesn't wake up and wise up -- then the whip will be applied until it does.. Along with this -- shall come Earth Changes of great magnitude -- so the terrorist threats are not the only problem to consider.. But in the end, there will be a better



time for those who come out of the tribulations.....Again, I thank you for you're ever considerate thoughts of me, and the love I have for that special place touched by The Hand of God...I will surely look forward to what you send me, and enjoy the scenes and views once again... Enclosed, is a somewhat humorous poem about the Dinosaurs. Best Wishes to you and you're Family --- Blessings, from, emmett

DON<sup>^</sup>T FORGET THE DINOSAURS

We drive our cars on Dinosaurs  
That once roamed Planet Earth.  
The teeth and bones, and sticks and stones,  
Helped make our present worth.

Our technology depends upon oil,  
The ruling minions cry !  
But let<sup>^</sup>s not forget the Dinosaurs  
That fell asleep to die !

Ah yes, the plants and forest<sup>^</sup>s too,  
And the swampy, murky bogs --  
All went to sleep so we could eat,  
And wear our plastic togs.

Our dishes too and cookware,  
Are coated with the stuff --  
That came forth from those ancient times,  
From hides and teeth and dust.

But the thought that really worries me,  
Is where it<sup>^</sup>s coming from --  
Thousands of feet beneath our feet,  
Is claimed the final sum.

If the time of their existence,  
Was on the face of Planet Earth --  
Where do you suppose we will go,  
When it<sup>^</sup>s time to use our worth ?

Oh my -- perhaps some one will drive,  
On the stuff around me now.  
I hope I<sup>^</sup>m not, in the refinery pot,  
Nor a part of it somehow.

January 10, 1999 Copyright,  
H. Emmett Finch, The Malibu Poet



Date: Sat, 06 Oct 2001 16:01:02 -0400  
 From: Ursula Keuper-Bennett <howzit@turtles.org>  
 To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>,  
 Peter Bennett <honu@turtles.org>  
 Subject: Re: FYI

I told you so. All four tapes are --well, you know yourself, since you talk about them being "archived for history". Again, I likely could'a shot tape just as good. Someone who knew about East could'a provided the history/info.

What makes the four tapes special is You shot and talked. But add to that steady steady shots. Long sequences. Bird portraits steady as a rock that you can grab freeze-frames from.

There isn't a single thing I can say you should have added or done better. And you know why? Because as you noted there, "lots of repetition". So you might have shot the basking area ten times. But maybe it's the early morning shot that translates best.

And you might have shot a booby trying its wings eight times. But the one where it's down is backlit by afternoon sun is a killer video freeze frame.

That's why I'm so happy with it all. All that repetition provides CHOICE. Choice for freeze-frames and for a production video.

I'm convinced you shot that footage like it was your last time there. That's the feel of the thing. And that's why you're not just "very Pleased" with it now. You will ALWAYS be.

You delivered!

-----  
 At 09:06 AM 10/6/01 -1000, George H. Balazs wrote:  
 >FYI. I had all 4 made into VHS. I watched all last night (it was a Late  
 >night!). I must say that I was Very Pleased with what videoed how I  
 >videoed. Very little would I change if had the opportunity to do over  
 >again. There's lots of repetition, but that ok. Harry is being sent  
 >tape 4. Also, tape 4 to Bob Justman the pilot, who kindly suggested  
 >putting my camera on the plane dash during take off. Best, Geo.

>  
 >----- Forwarded message -----

>Date: Sat, 6 Oct 2001 08:47:38 -1000  
 >From: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>  
 >To: Harry Emmett Finch <sunbro@mindspring.com>  
 >Subject: Aloha Harry Emmett from George

>  
 >Well the world is a far sadder place than when we last wrote to one  
 >another. We ask God for a little mercy for all suffering people.

>  
 >I'm writing to you to let you know that I did quite a bit of video at  
 >FFS GBI/Tern when I was there for 10 days this past June. I included a  
 >"reading" on GBI of your beautiful "walk softly" poem-- I did that  
 >sitting out on the foundation of the radio shack where you worked. I'm  
 >mailing you a VHS copy to watch and keep (the original is DVD  
 >mini-digital and has been archived for history). I hope you enjoy it, I  
 >believe you will. I was very pleased with how it turned out.

>  
 >East Island is eroding away, no doubt about it. Slowly. Your prediction  
 >years ago is coming true (but I wish it wasn't). As you know,  
 >Whale-Skate has only been a sand-bar awash for several years now. The

>turtles that nested there (and presumably the birds also) now nest on  
 >Tern Island (there is an Army Corps project starting this winter to  
 >restore the sea walls rusting away, but keeping the vital sand beach  
 >areas where the turtles nest).

>  
 >I hope you are well, with best regards, Your Friend, George

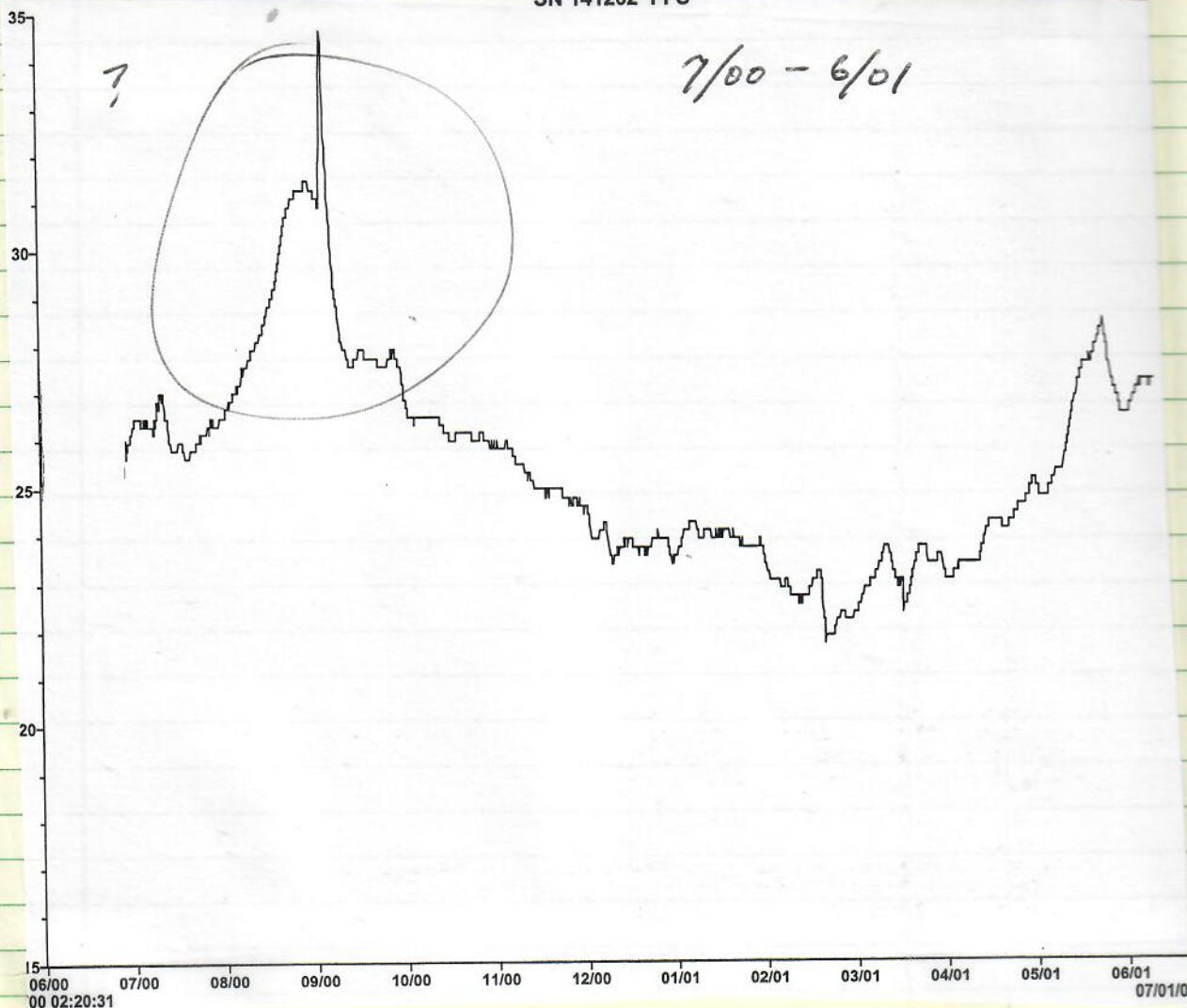


Egg nest?

ISLAND =

67

SN 141202 FFS



7/00 - 6/01

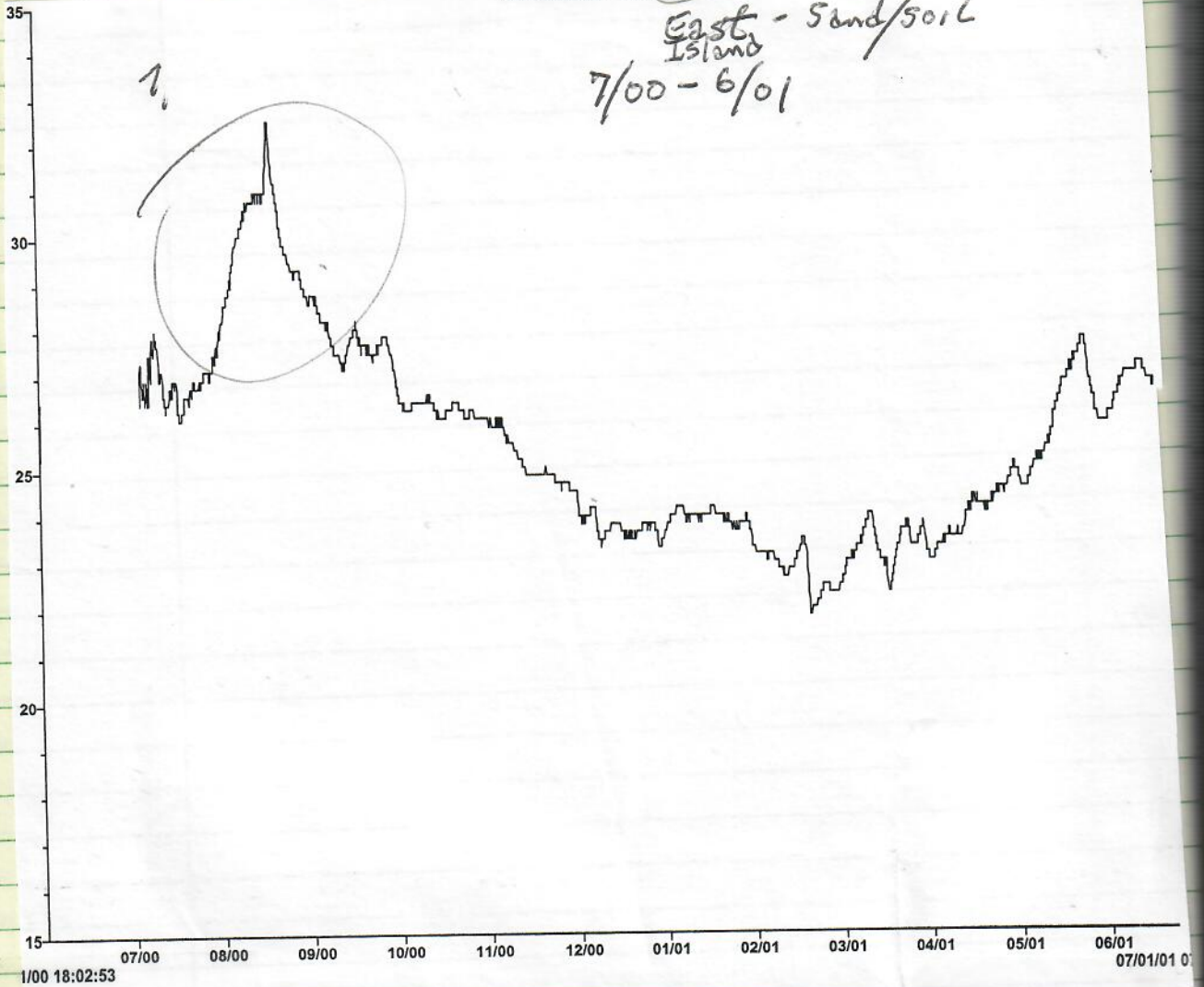
- 9572 3/5/86 Tagged at Palaau, Molokai  
SCL=69.0, CCL=74.0, TS=0  
9571 LFL, 9572 RFL
- 7426 7/5/89 Tagged at PalaauA, Molokai  
SCL=69.3, CCL=76.0, TS=0  
BBA408 L34, Y426 RFL, Y427 LFL
- 1/11/91 Seen at East Shore, Turtle Haven, Lanai  
Reported by Mark Johnson while SCUBA diving read tag  
BBA408

*June 2003  
recovered  
of nesters at  
East*



SN 309440 FFS E1

East - Sand/soil  
Island  
7/00 - 6/01



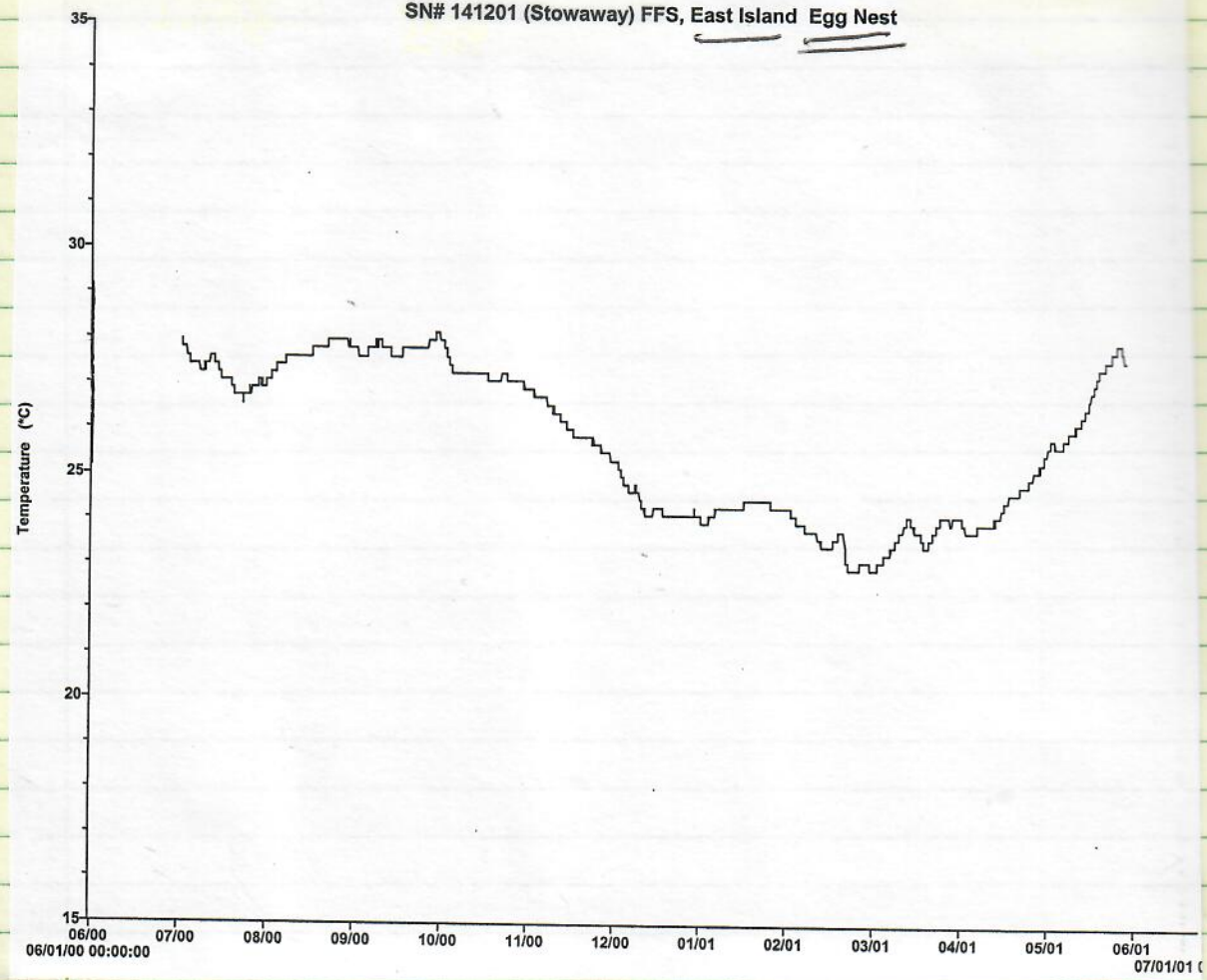
1/00 18:02:53

07/01/01 0



7/00 - 6/01

SN# 141201 (Stowaway) FFS, East Island Egg Nest

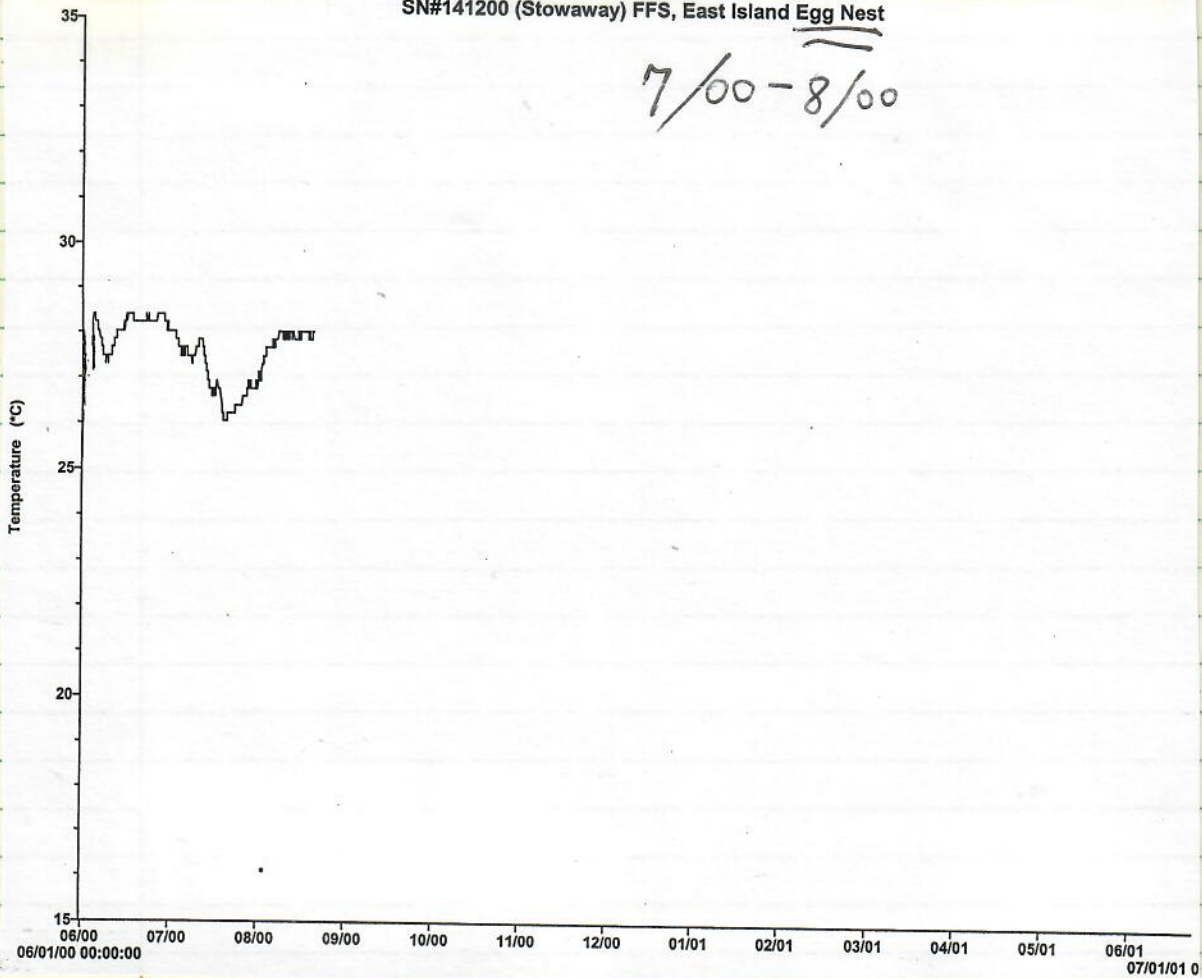




10/0 - 00/0

SN#141200 (Stowaway) FFS, East Island Egg Nest

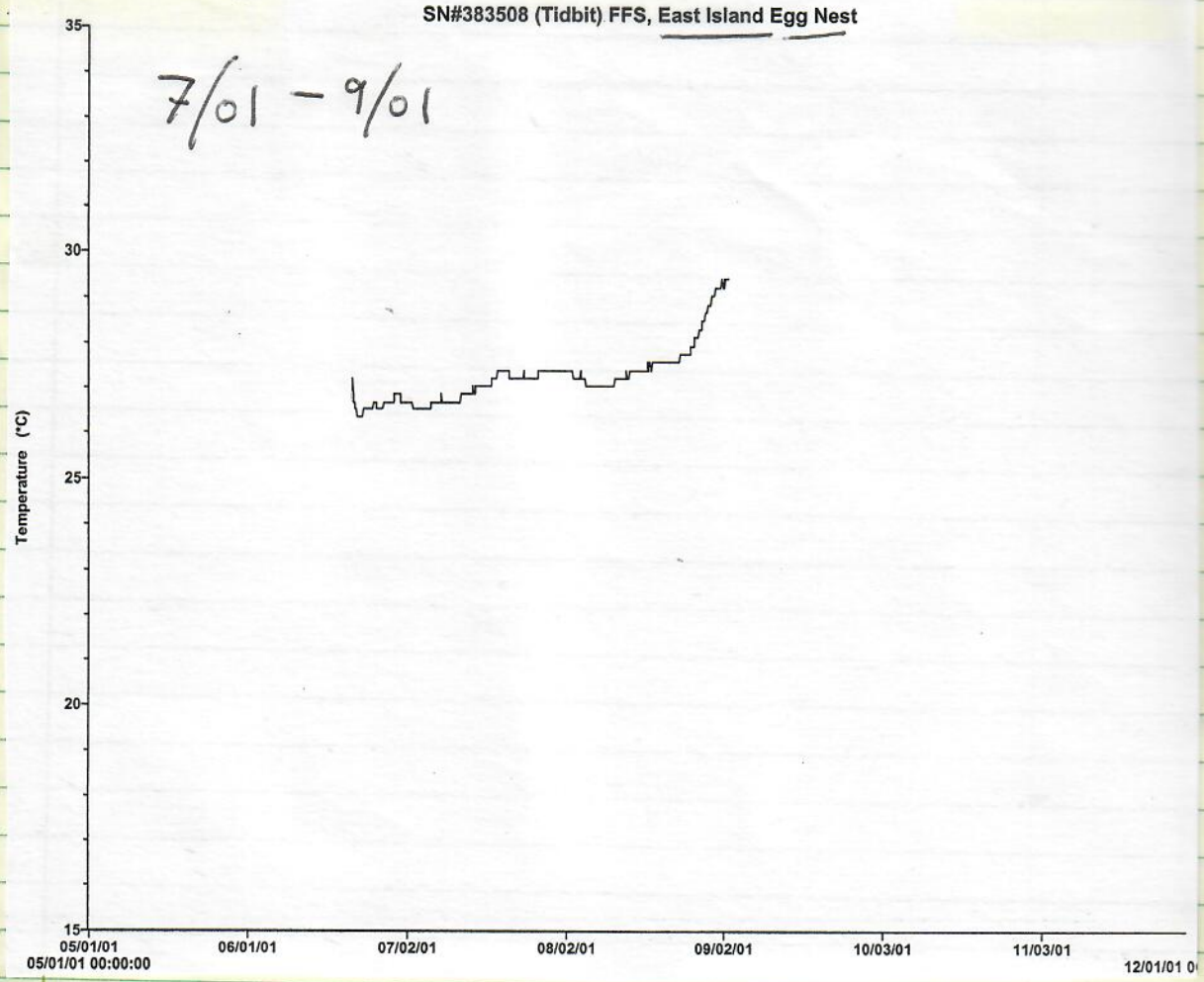
7/00 - 8/00





SN#383508 (Tidbit) FFS, East Island Egg Nest

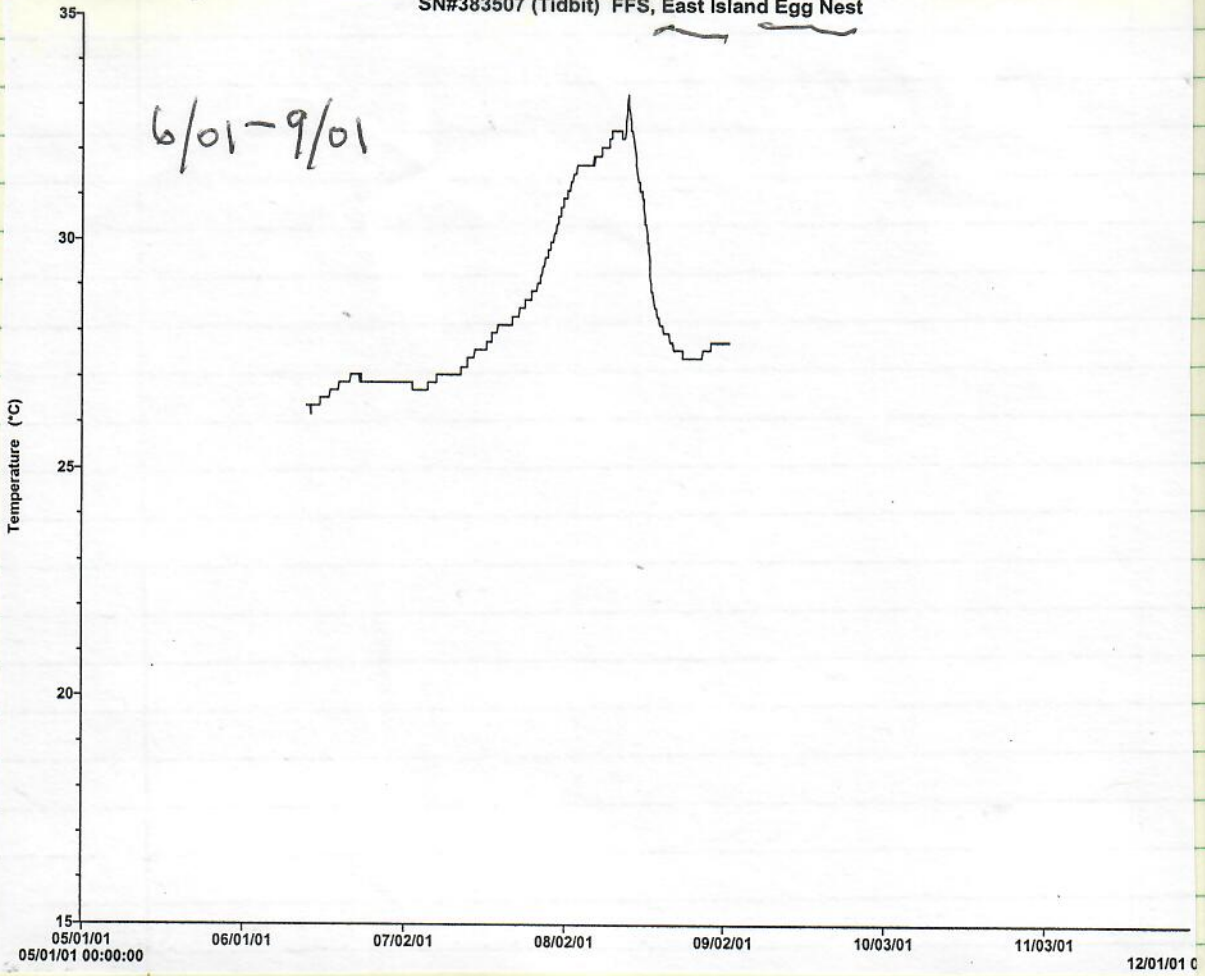
7/01 - 9/01





SN#383507 (Tidbit) FFS, East Island Egg Nest

6/01-9/01

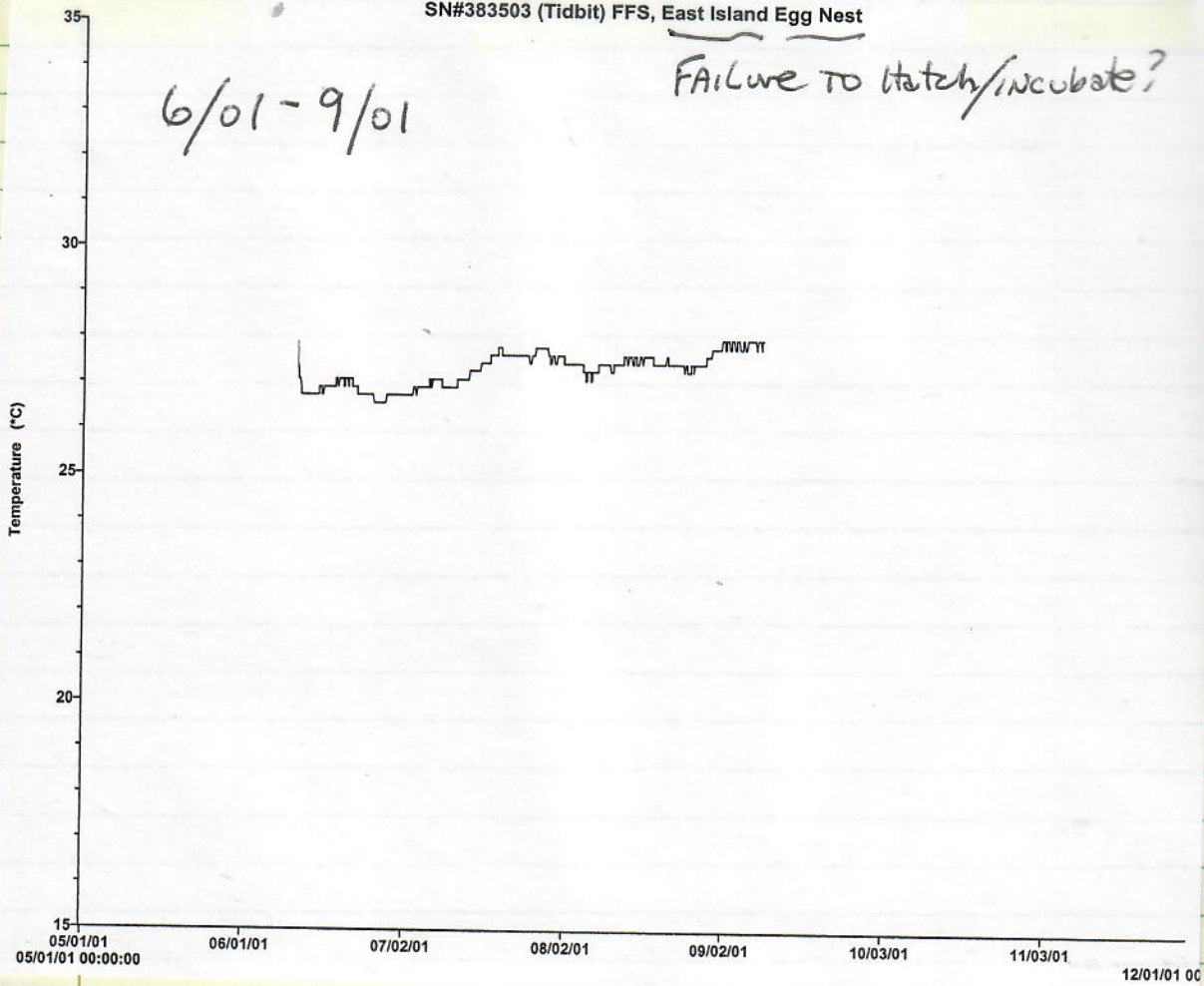




SN#383503 (Tidbit) FFS, East Island Egg Nest

6/01 - 9/01

Failure to Hatch/Incubate?

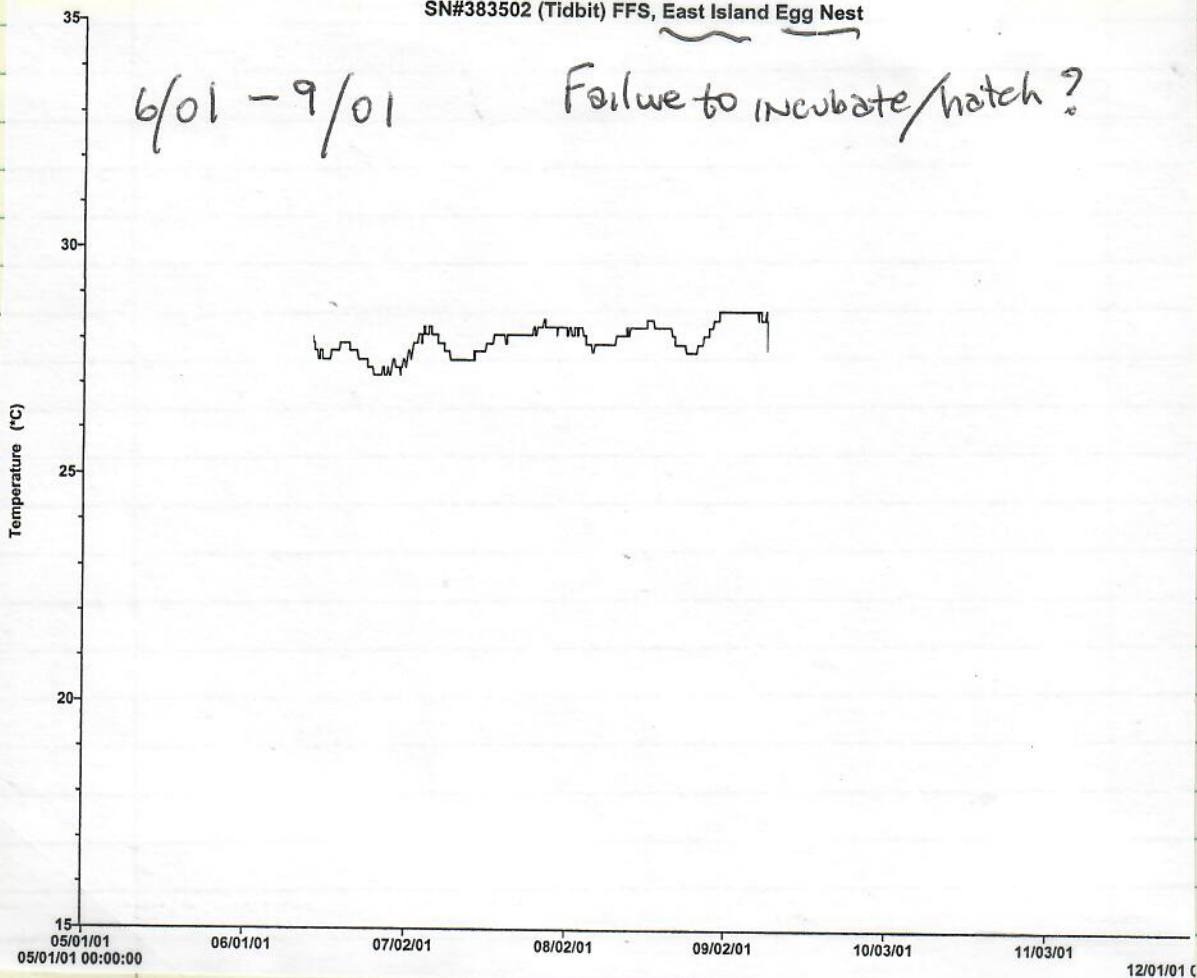




SN#383502 (Tidbit) FFS, East Island Egg Nest

6/01 - 9/01

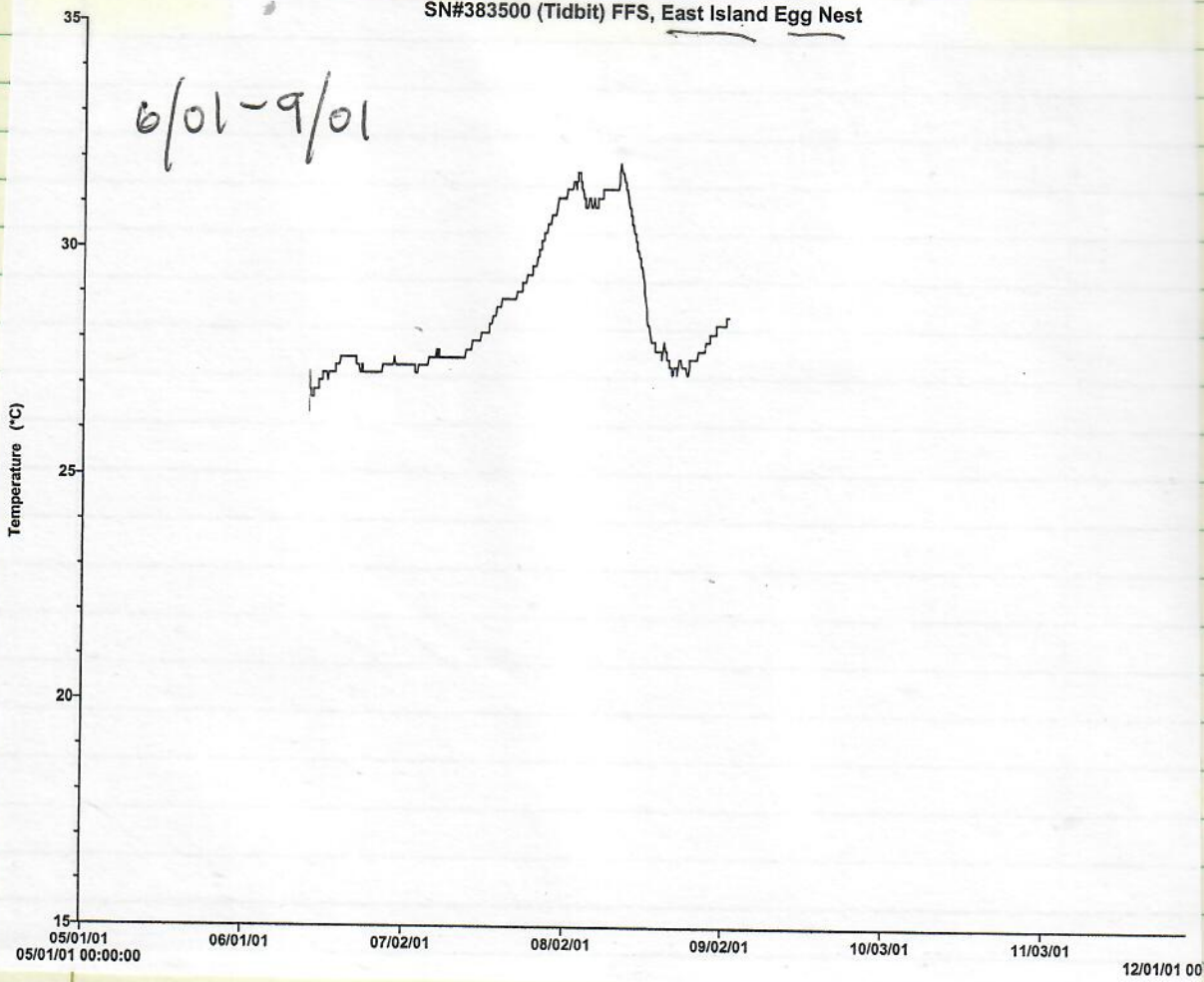
Failure to incubate/hatch?





SN#383500 (Tidbit) FFS, East Island Egg Nest

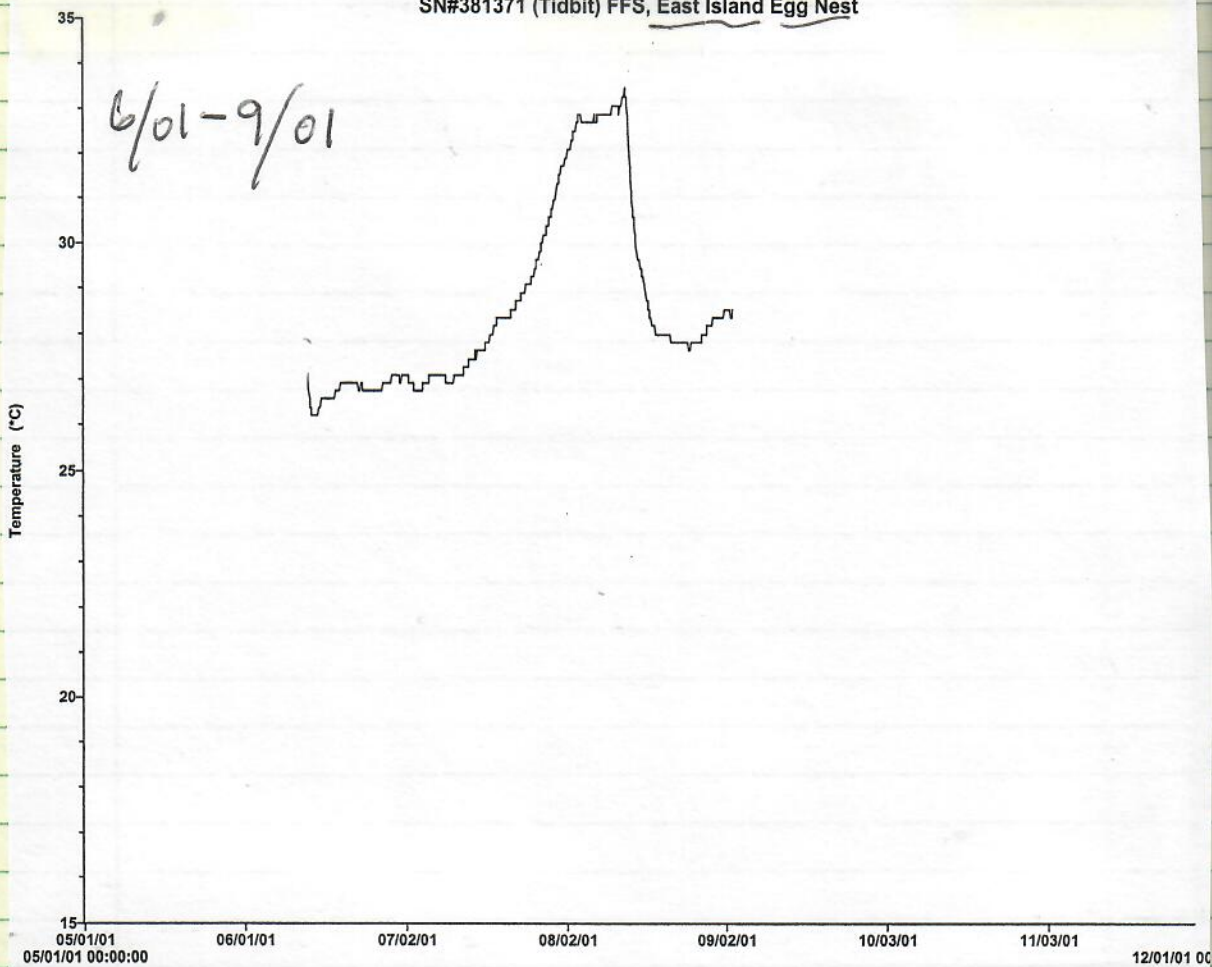
6/01-9/01





SN#381371 (Tidbit) FFS, East Island Egg Nest

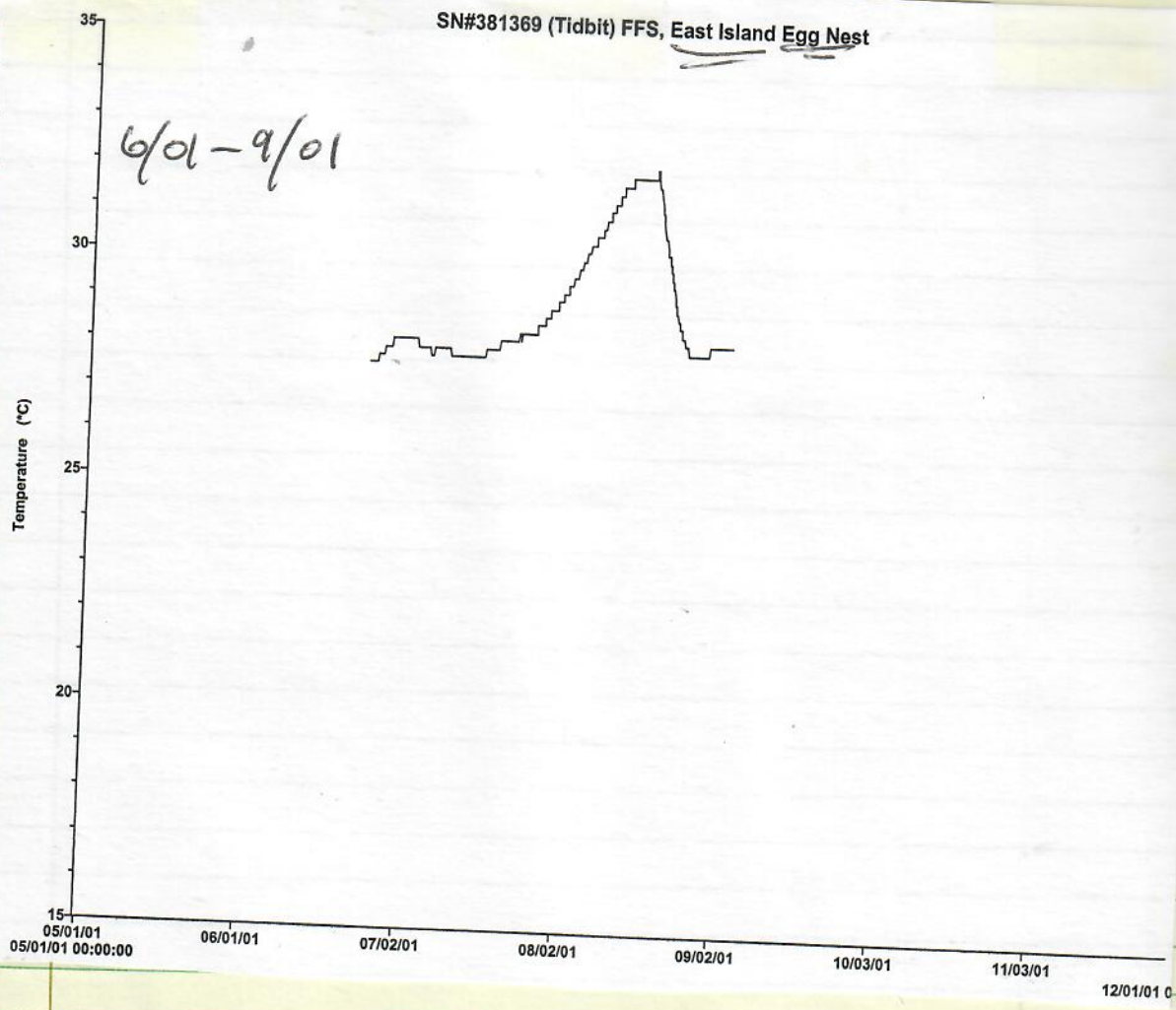
6/01-9/01





SN#381369 (Tidbit) FFS, East Island Egg Nest

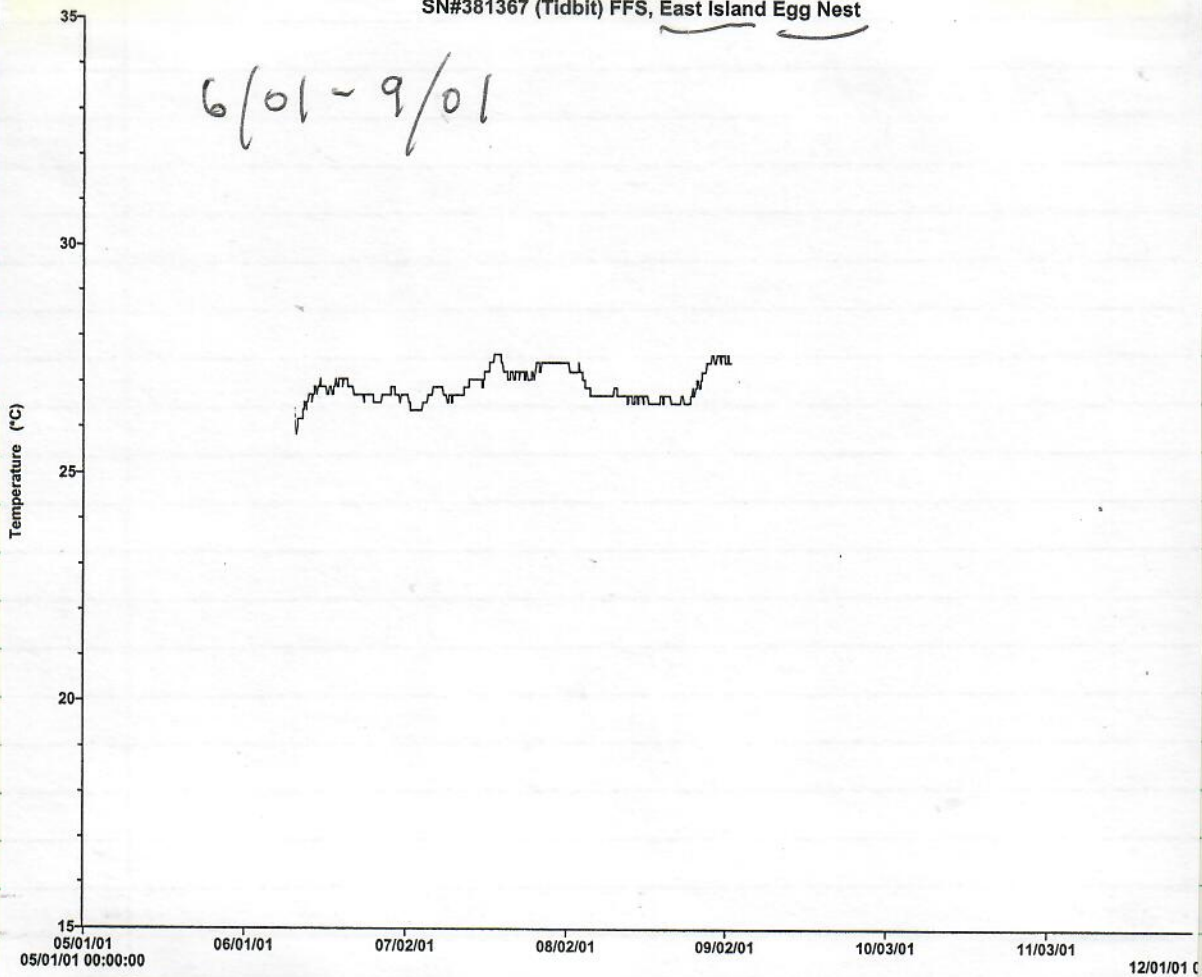
6/01 - 9/01





SN#381367 (Tidbit) FFS, East Island Egg Nest

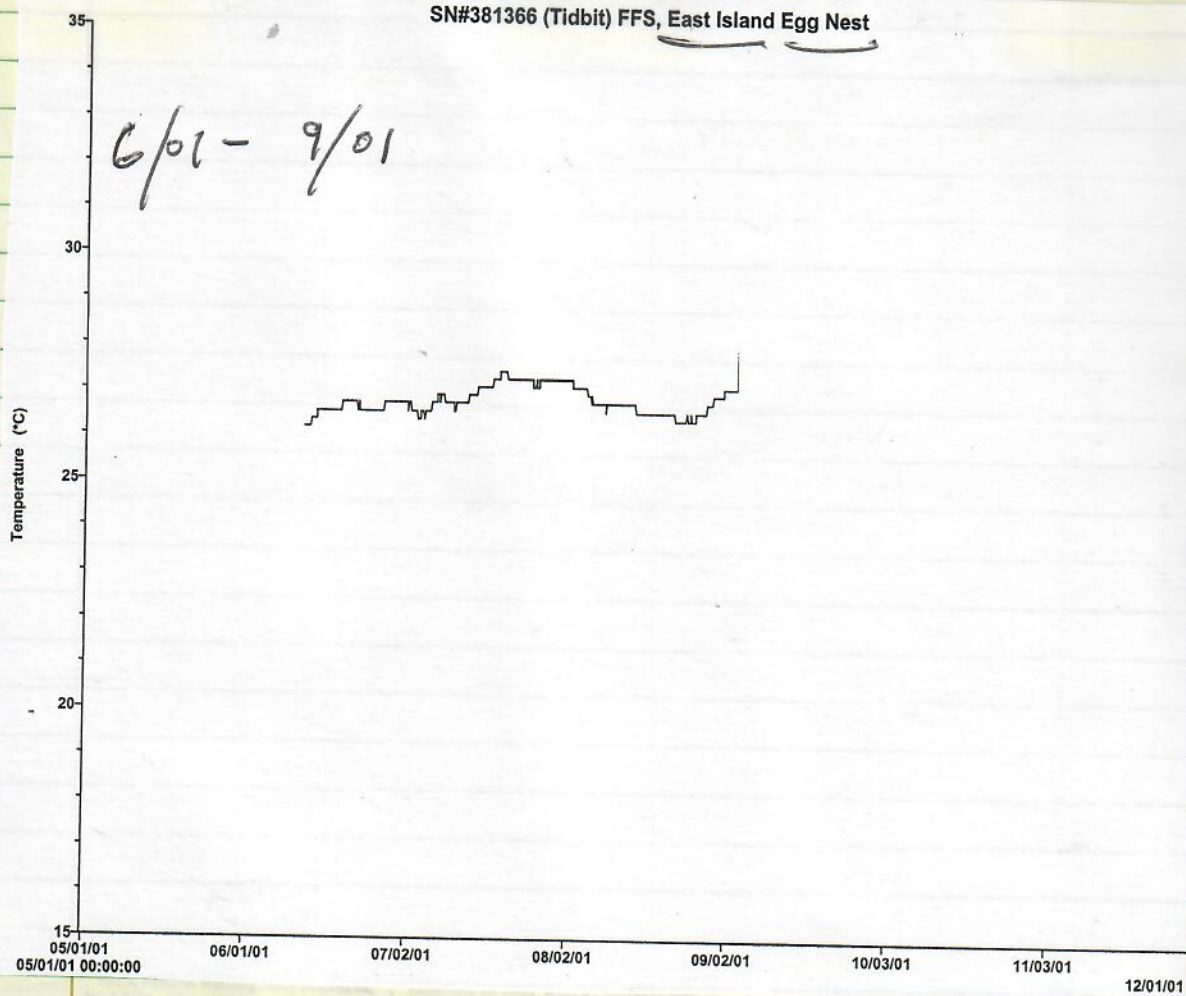
6/01 - 9/01





SN#381366 (Tidbit) FFS, East Island Egg Nest

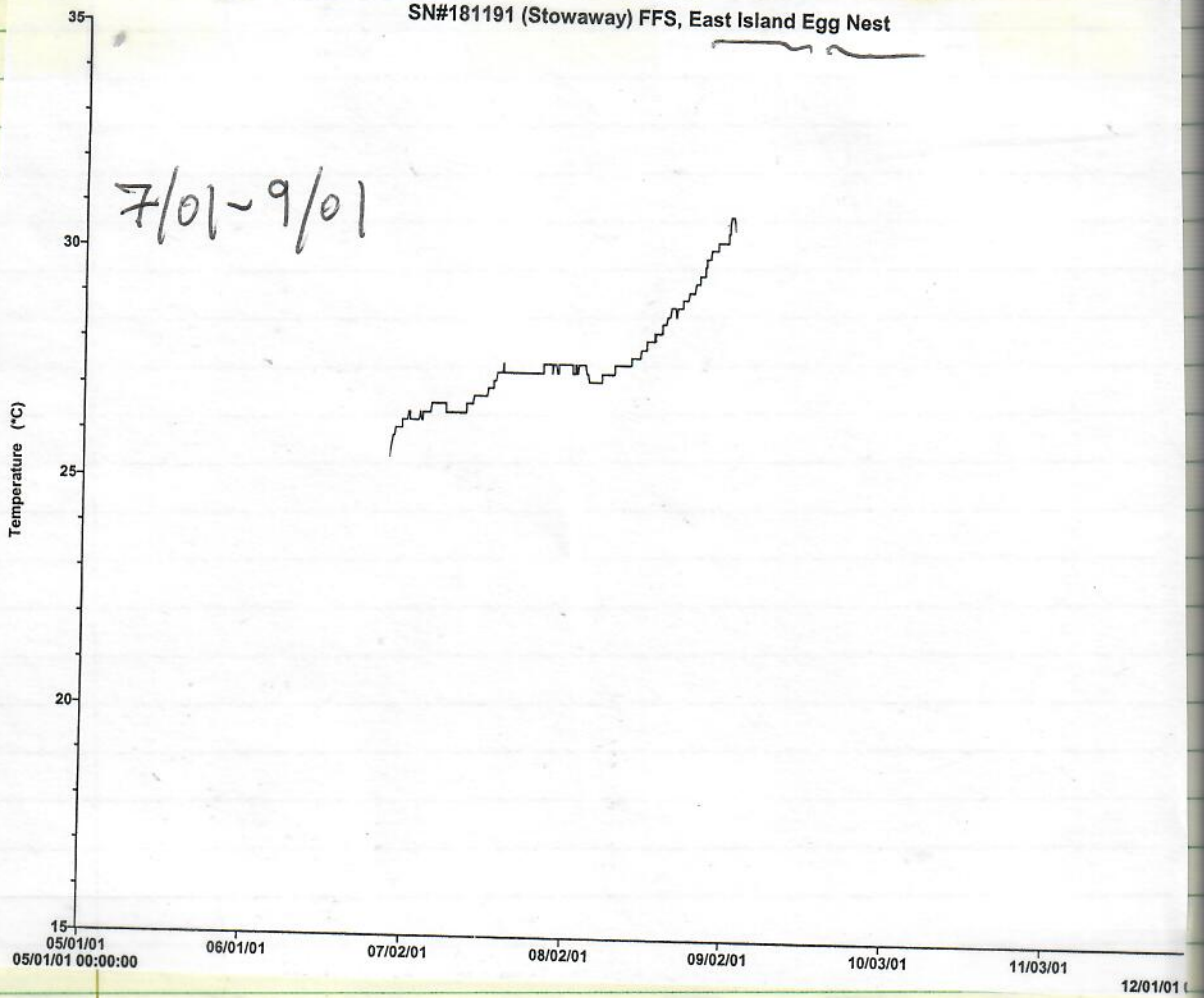
6/01 - 9/01





SN#181191 (Stowaway) FFS, East Island Egg Nest

7/01-9/01





# The Pacific Adventures of John Cameron *JCS*

by Hank Soboleski

John Cameron was born in Scotland in 1850, went to sea as a lad of 17 and, after sailing the Atlantic and Indian Oceans, he started his Pacific adventures in Honolulu in 1879 as second mate of the Pomare, bound for the South Seas on a labor-recruiting voyage for Hawaii's sugar plantations.

Labor-recruiting, or "blackbirding," was dangerous business, since natives often were warlike and especially hostile toward recruiters for cruel treatment their fellows had received at plantations in Fiji, Samoa and Australia.

Accordingly, Cameron and his mates anticipated trouble at Tanna Island in the New Hebrides (today's Vanuatu), Pomare's first stop. And, at sea, when they stood on deck at night and saw the eerie glare of Tanna's volcano in the distance, it may have seemed to them as if the ship was entering into the domain of the damned. But, no mishaps occurred at Tanna and a native boat crew was hired and Pomare sailed on.

Action picked up soon after, however, at Mallicolo where about 400 men gathered on shore. Large numbers of men generally meant danger to be avoided, but the men gestured in friendly fashion and appeared unarmed as seen from Pomare's deck, so a decision was made to recruit them.

The ship's two shoreboats were lowered, with Cameron in charge of one of them. When they reached the shallows, the natives waded out to greet them.

Then, without warning, they rushed the lead boat, attempting to seize it while Cameron's boat closed behind. Rifles and revolvers were fired, hatchets flew, knives were drawn and a fury of hand-to-hand combat ensued.

Incredibly, the natives were turned back by the outnumbered recruiters and Cameron received not a scratch, although a few of the crew were cut.

Later, at Pentecost Island, five canoes, each carrying about 100 warriors, were spotted two miles away being vigorously

paddled toward Pomare, which was becalmed inshore.

While the warriors paddled closer, yelling and waving their clubs and spears wildly, Cameron loaded his six-pounder and when they'd closed to 100 yards he fired the gun. Exploding shrapnel

land so she could (amazing as this may seem) attempt to stop the lava flow that had advanced about 40 miles from its source at Mauna Loa and was endangering the town of Hilo.

Indeed, Princess Ruth seemed to be Hilo's last hope when she arrived to offer sacrifices to Pele, the volcano goddess, six decades, by the way, after missionaries had established Christianity in Hawaii.

It's a fact that the flow stopped immediately after she made burnt offerings of pigs and pigeons and no one could have persuaded the Hawaiians that her actions were merely coincidence.

Another famous that Cameron made the acquaintance of was King David Kalakaua, the "Merry Monarch." Kalakaua made frequent voyages to Kauai while Cameron was sailing as master in service to that island and the two became friends and drinking companions, tipping many a glass together in the king's home at Iolani Palace in Honolulu and at the jolliest of parties elsewhere.

Yet, in 1887, Cameron exchanged a steamship captaincy and a king's companionship for the promise of more adventure as first officer of the Wandering Minstrel and a shark-fishing voyage to Midway.

Cameron soon found the adventure he's sought, for when the ship reached Midway, a hurricane struck. Wandering

Minstrel was wrecked and Cameron and his shipmates found themselves castaways, living in shanties and subsisting mostly on a diet of birds' eggs, fish and water.

Weeks passed and hope of rescue dimmed. A boat was fitted for sea, but it vanished in a storm. Another boat, an open 21-footer, was made ready and, after eight months of being stranded on Midway, Cameron and two others wet sail for Hawaii.

Once at sea, three straight days of storms with teeth-rattling cold proved beyond endurance, forcing Cameron to change course for the Marshall Islands and warmer weather to the southwest.



John Cameron, a seafaring man who spent his last 25 years ashore. (Photos from John Cameron's Odyssey)

swamped two canoes, abruptly stopped the frenzy and the surviving warriors turned tail.

Similar adventures engaged Cameron before Pomare finally returned to Honolulu in 1881 with 87 laborers destined for the sugar cane fields. Cameron then took up more peaceful pursuits, serving as an officer on interisland steamships in Hawaiian waters for the next six years.

One of his most famous passengers was Princess Ruth Keelikolani, an alii (chief) of the highest rank and the wealthiest woman in Hawaii.

Cameron was first officer of the Iwalani in August 1881 when it transported Princess Ruth from Honolulu to the Big Is-



Still, horrible weather persisted. Huge seas terrified the men. They bailed constantly for days on end. Rain provided plenty of drinking water, but food supplies dwindled. A speared dolphin sustained them, but a shark they'd snared with a rope and killed with a knife cause them severe abdominal pain after they'd eaten its poisoned liver.

On the positive side, Cameron was a skilled navigator, able to reckon his position at sea with his compass and a damaged sextant to avoid being lost. At 33 days out of Midway, he estimated he was due east of Mili Atoll in the Marshalls.

Not long afterward, the dauntless Scot noticed coconut husks floating in the sea—a sign of land. Ten days later, they saw the tops of coconut palms at Mili.

That Cameron and his mates had survived a voyage of 43 days in an open boat in heavy seas over 1,700 miles of ocean devoid of land, with only the barest of navigational tools on hand, is remarkable. (The remaining survivors on Midway were finally rescued by the schooner *Norma* in March 1889.)

Cameron decided to stay in the Marshalls and soon was commanding the trading schooner *Ebon*, visiting trading stations in several island groups with supplies to exchange for copra and shells.

Never loathe to turn a profit

in this trade, he also once sold rifles and cartridges to natives in rebellion against Spanish occupation at Ponape (Pohnpei). This transaction, illegal under Spanish law, earned him a box of gold, but an informant named Christian reported the sale to Spanish officials and Cameron was arrested, but not before he'd hidden his treasure.

If found guilty, Cameron would have faced execution, but the Spanish couldn't find the golden evidence they needed to validate Christian's charge. Meanwhile,

Cameron steadfastly maintained his innocence during his trial.

Yet, his fate remained doubtful, until a surprising and most welcome appearance at court by his friend, Dick Cole, saved the day, for Cole held some sort of influence over Christian that convinced the informant to withdraw the charge.

The cry of "not guilty!" was the sweetest sound to Cameron's ears. Later, at sea aboard *Ebon*, Cameron retrieved the gold he'd stashed away in a shipboard water tank.

Cameron met with many other adventures during his Pacific voyages. To mention a few:

His ship was grounded on the reef at Nikunau in the Gilberts; he sailed to Tahiti as master of a cattle vessel and he survived run-ins with pirates; he made a round-about, 9,000-mile, island-hopping voyage from Kusaie (Kosrae) to Kobe, Japan, and he delivered a yacht from Japan to Vladivostok, Russia, during a typhoon in 1887, his final year at sea.

He met the famous author, Robert Louis Stevenson, in 1890 in Tarawa on the deck of the latter's ship, the *Janet Nicoll*. His replies to the writer's questions about the wreck of the *Wandering Minstrel* on Midway helped inspire Stevenson to write *The Wrecker* with Lloyd Osbourne.

Cameron also met the notorious King Tem Binoka of

Abemama, Kuria and Aranuka in the Gilberts and Binoka's constant companion, a retinue of 25 women.

He married the daughter of a Mejit Island chief and their daughter was born during a gale at sea.

Standard Oil Company hired Cameron at Kobe in 1899 and he held that shore job for 25 years. In 1925, he set sail on his final and eternal voyage. ■



Princess Ruth Keelikolani was one of John Cameron's most famous passengers.

757<sup>009</sup>  
old

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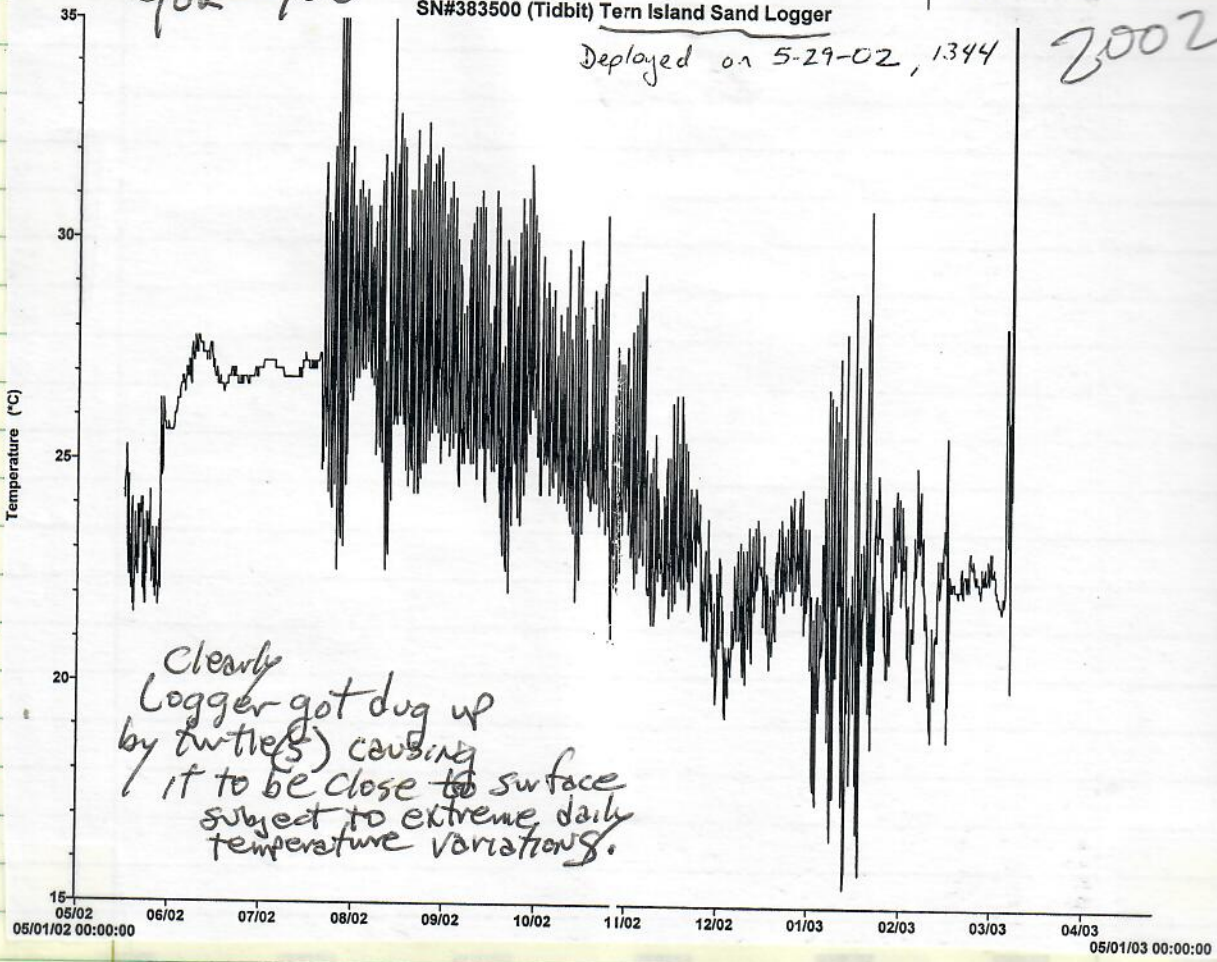
6/02-3/03

Tern Sand

2002

SN#383500 (Tidbit) Tern Island Sand Logger

Deployed on 5-29-02, 1344



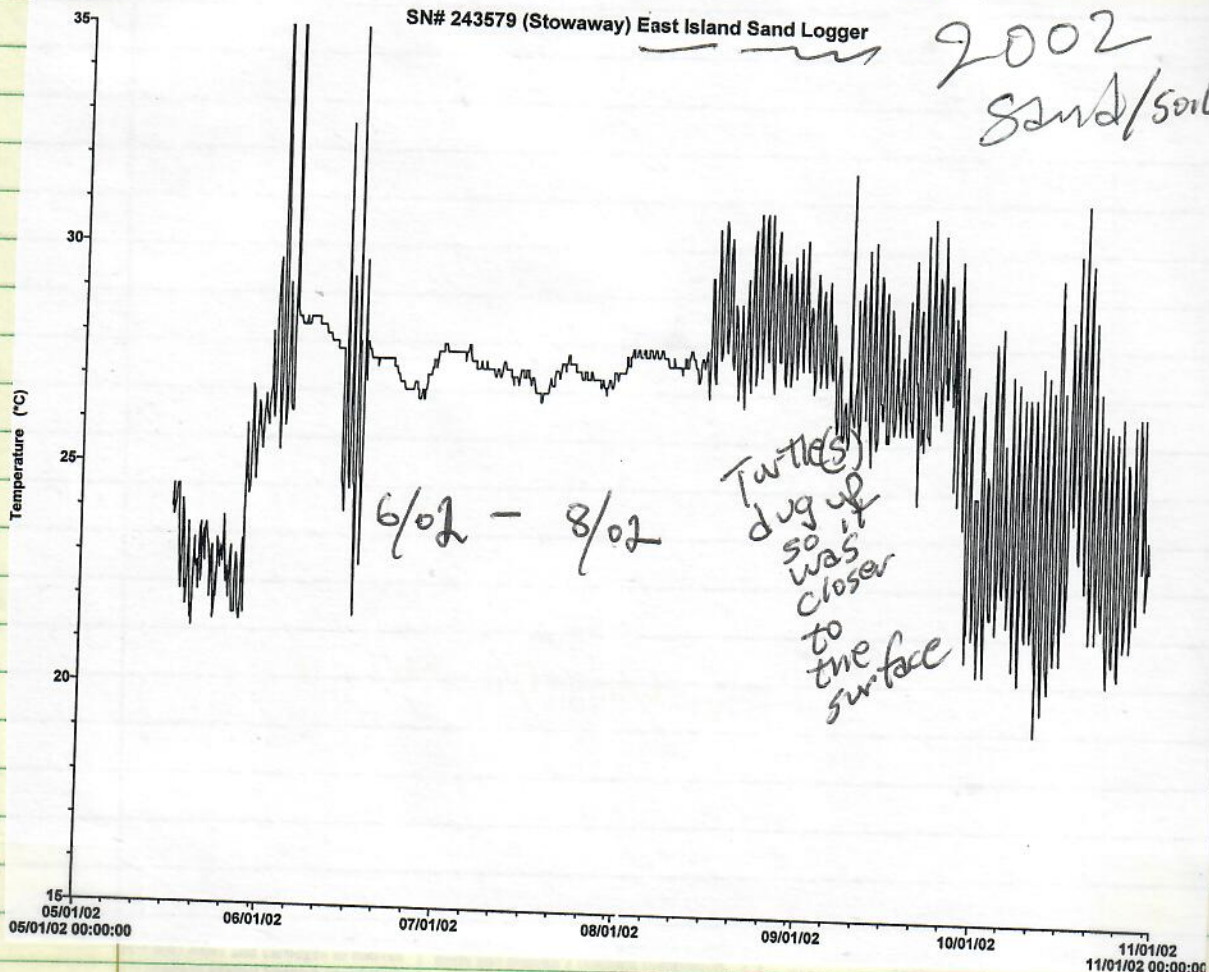
Clearly  
 Logger got dug up  
 by turtle(s) causing  
 it to be close to surface  
 subject to extreme daily  
 temperature variations.



East Island

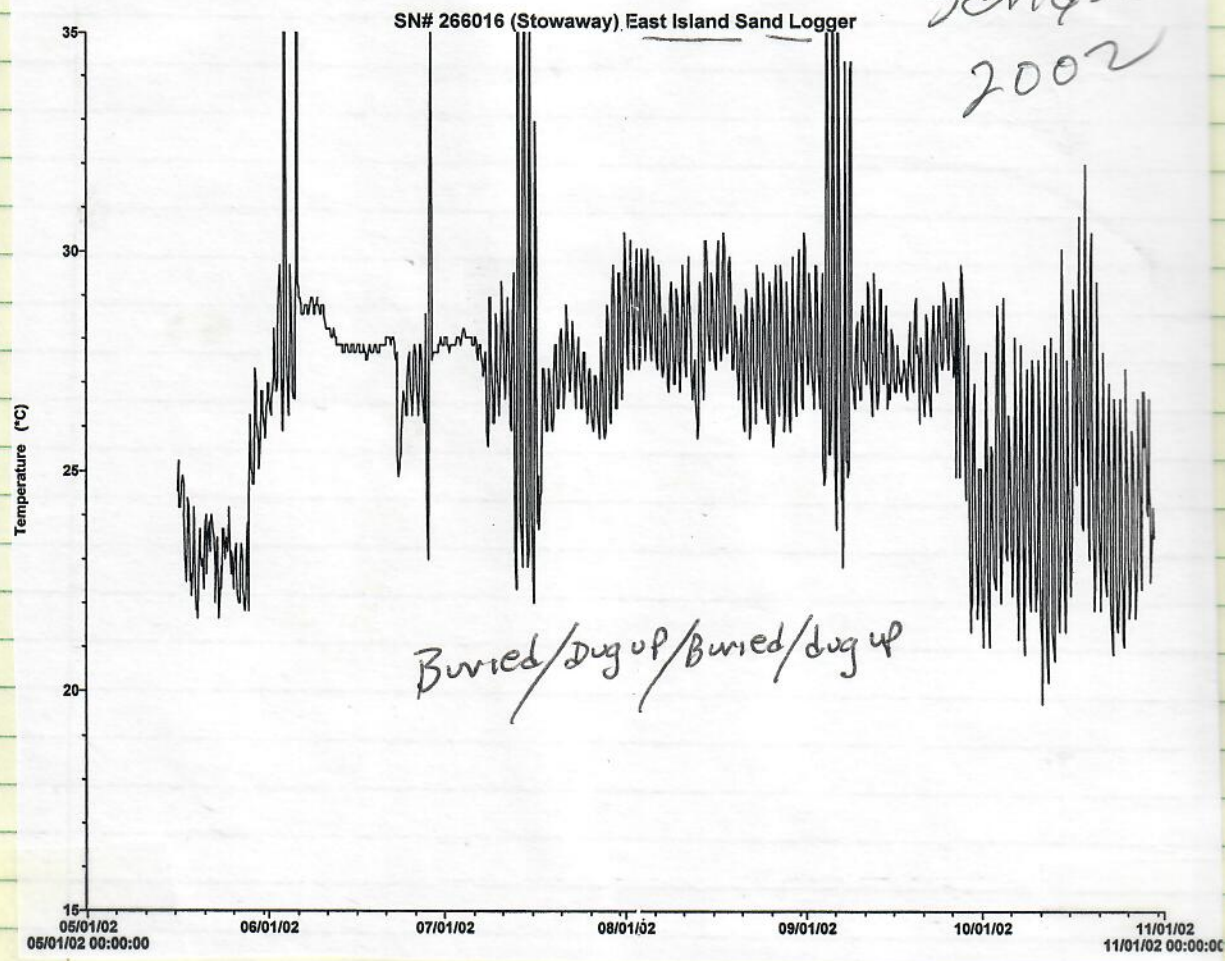
SN# 243579 (Stowaway) East Island Sand Logger

2002  
sand/soil





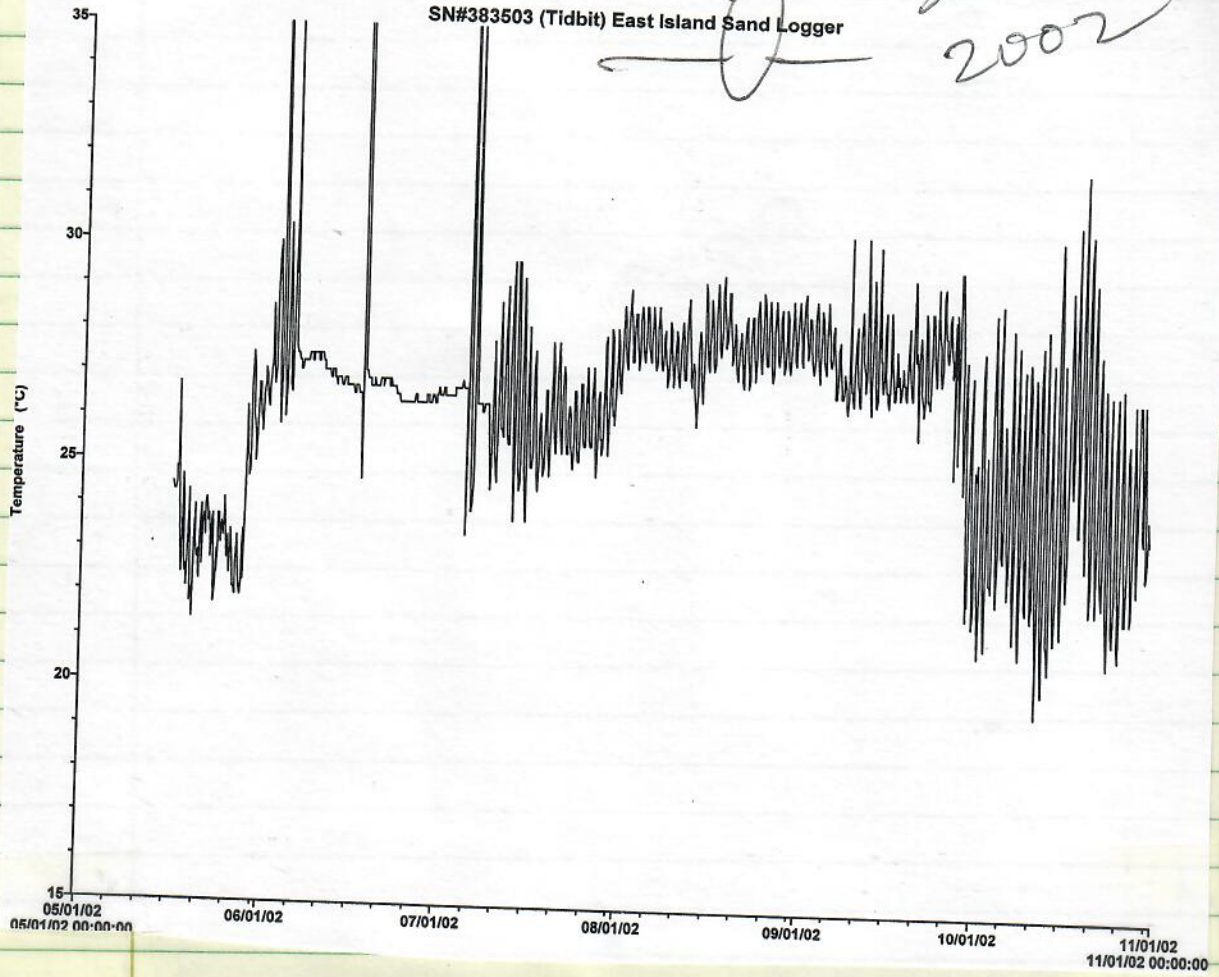
East Island  
Sand/Soil  
2002





East  
Sand  
2002

SN#383503 (Tidbit) East Island Sand Logger



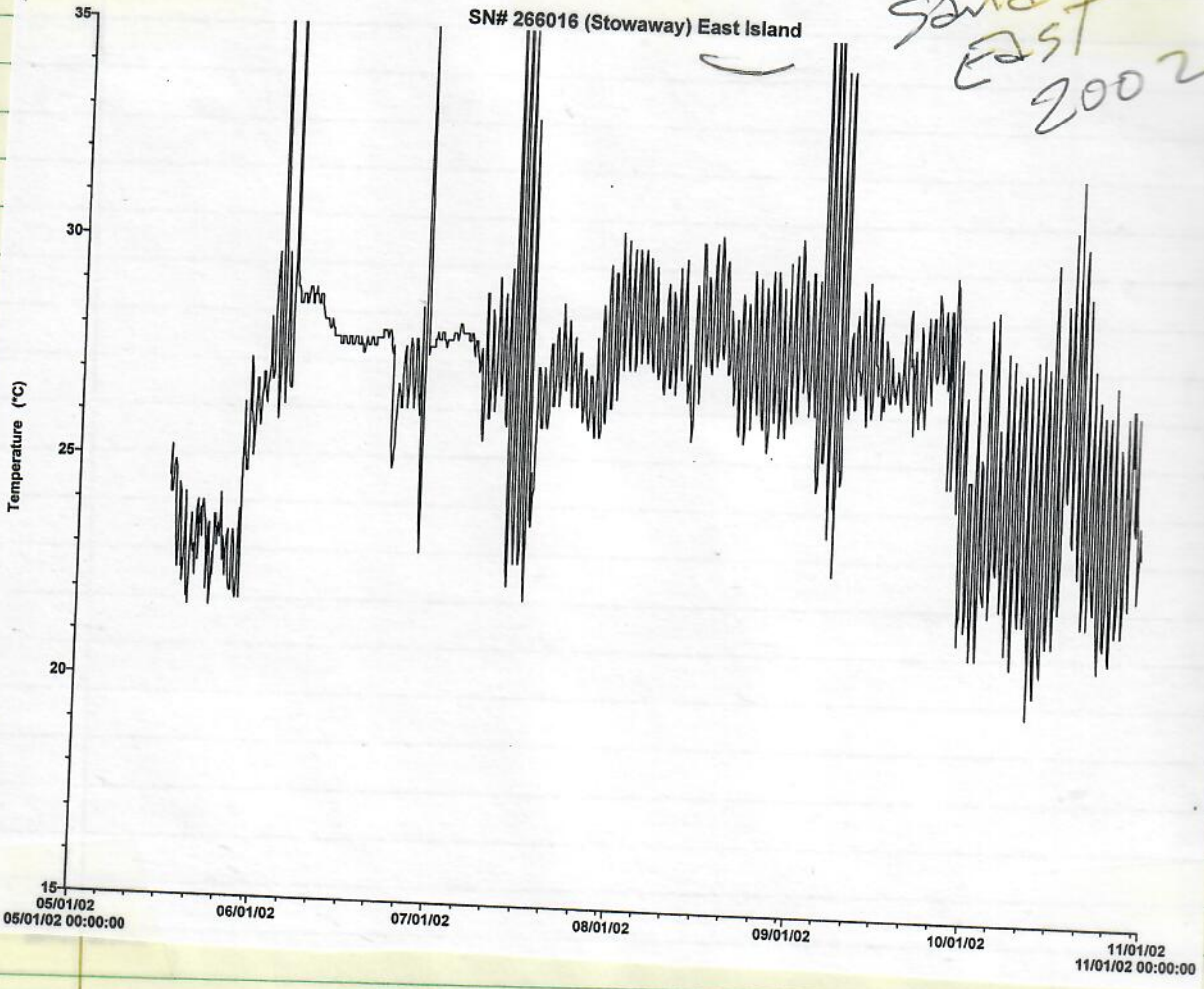


B995 3 of

87

Sand  
East  
2002

SN# 266016 (Stowaway) East Island



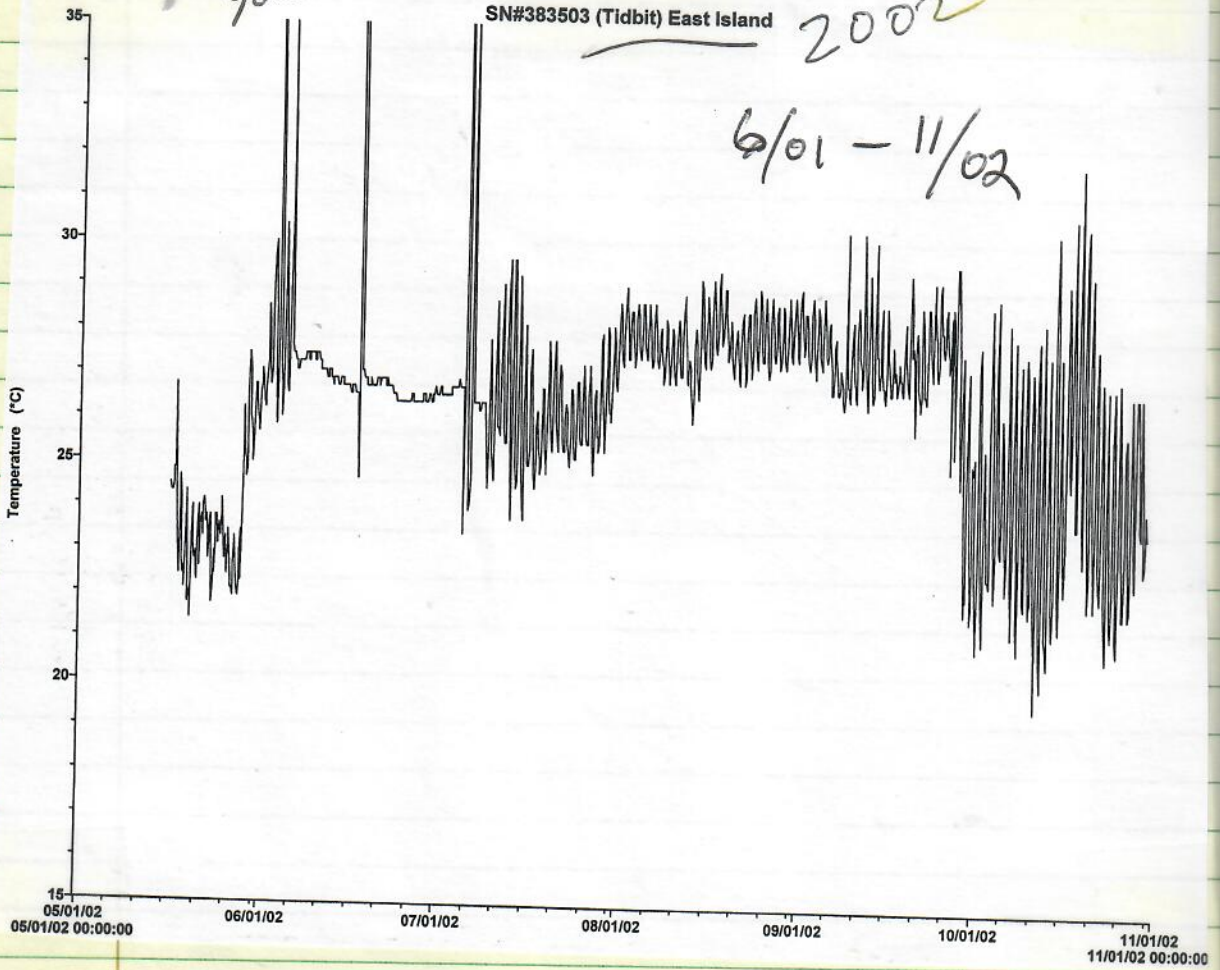


Sand or eggs?

SN#383503 (Tidbit) East Island

2002

6/01 - 11/02



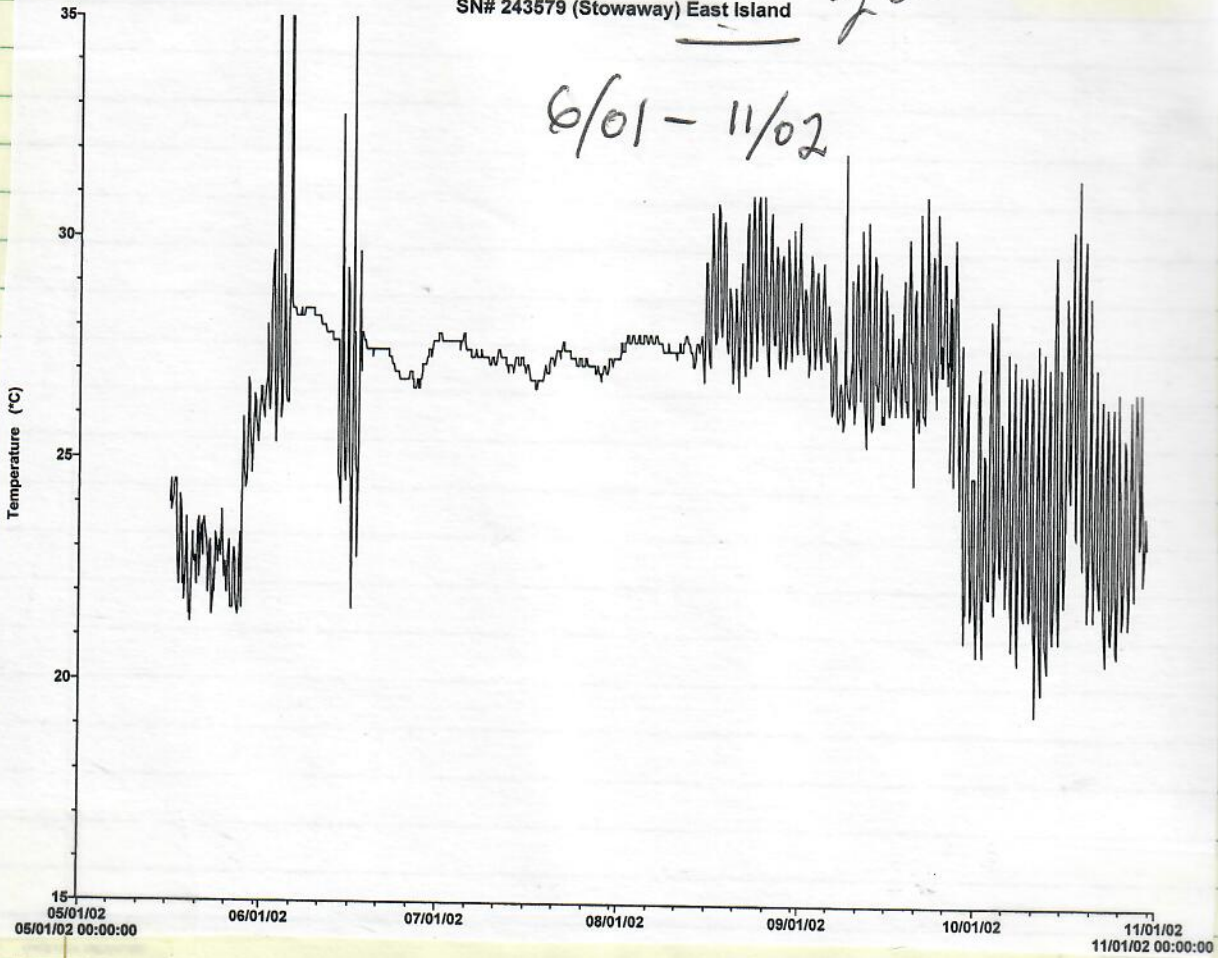


Sand or eggs?

SN# 243579 (Stowaway) East Island

2002

6/01 - 11/02

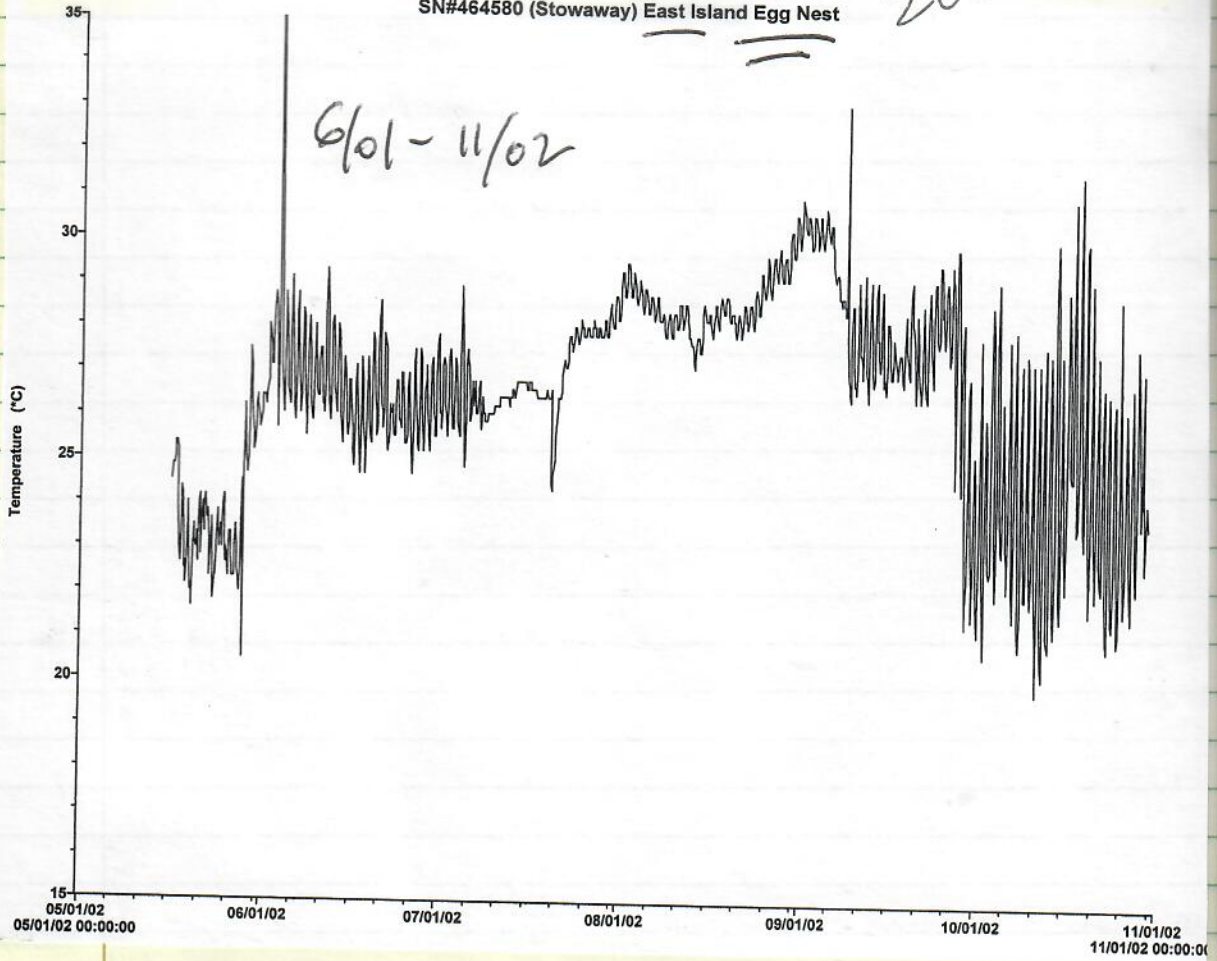




SN#464580 (Stowaway) East Island Egg Nest

2002

6/01 - 11/02

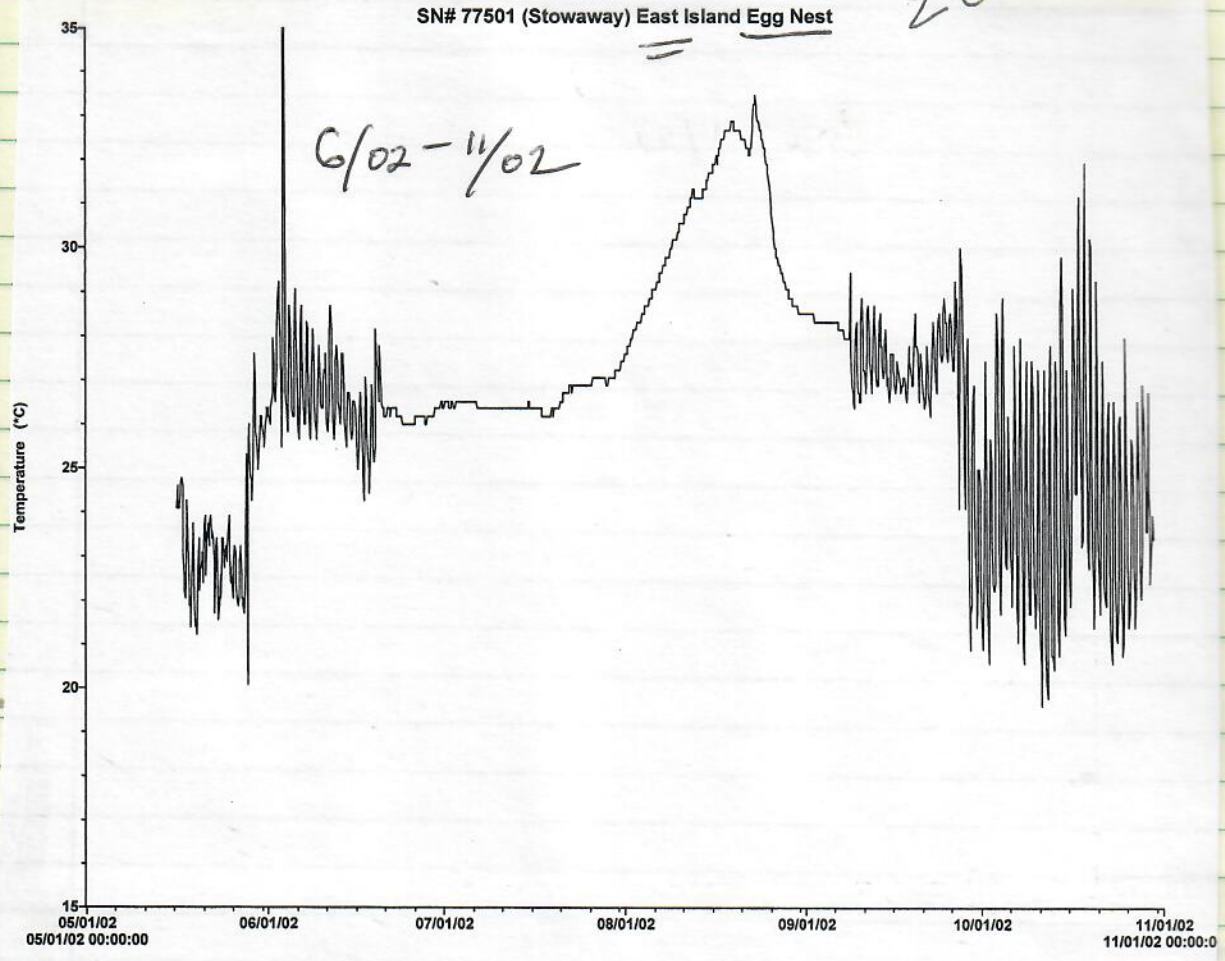




SN# 77501 (Stowaway) East Island Egg Nest

2002

6/02 - 11/02

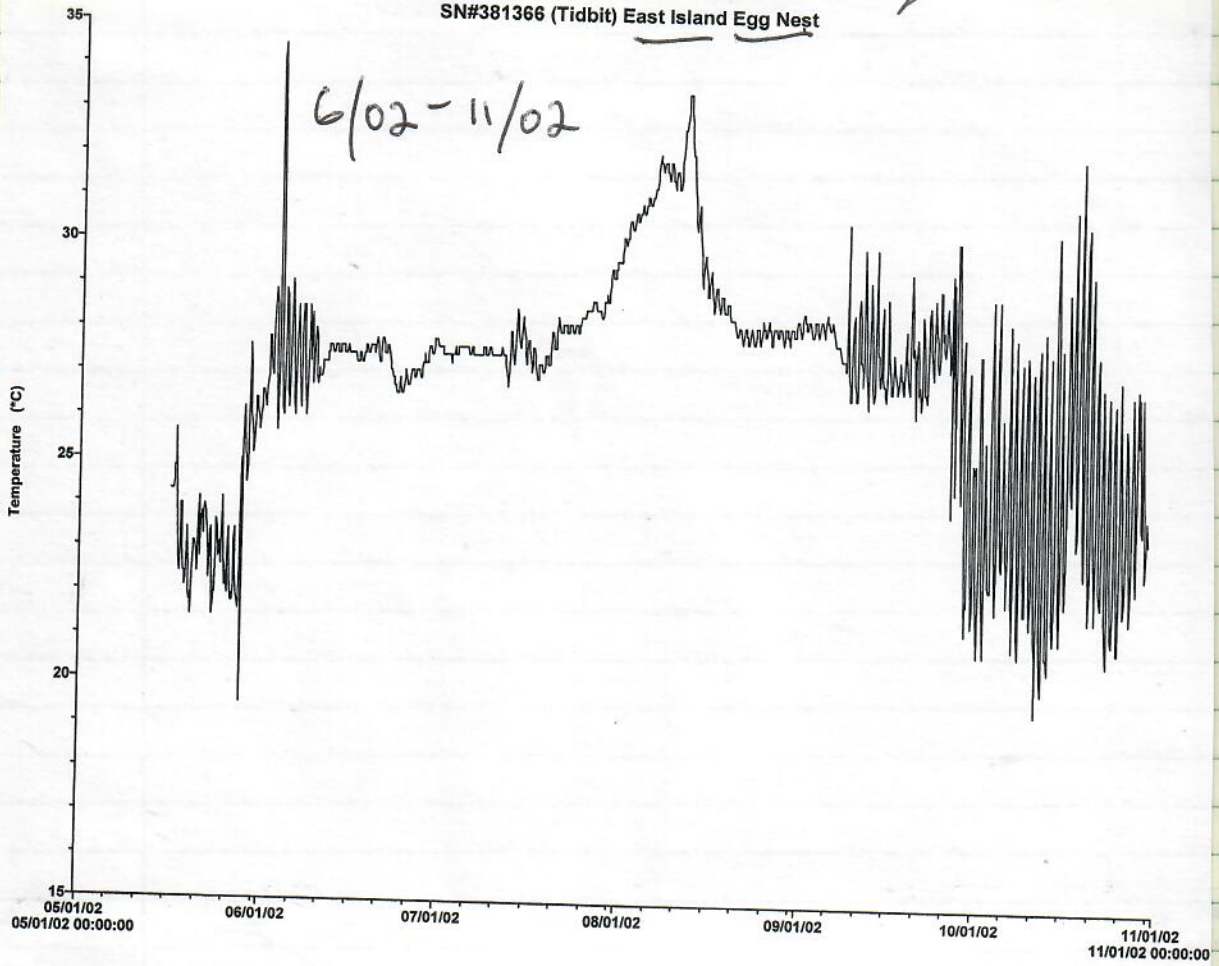




2002

SN#381366 (Tidbit) East Island Egg Nest

6/02 - 11/02

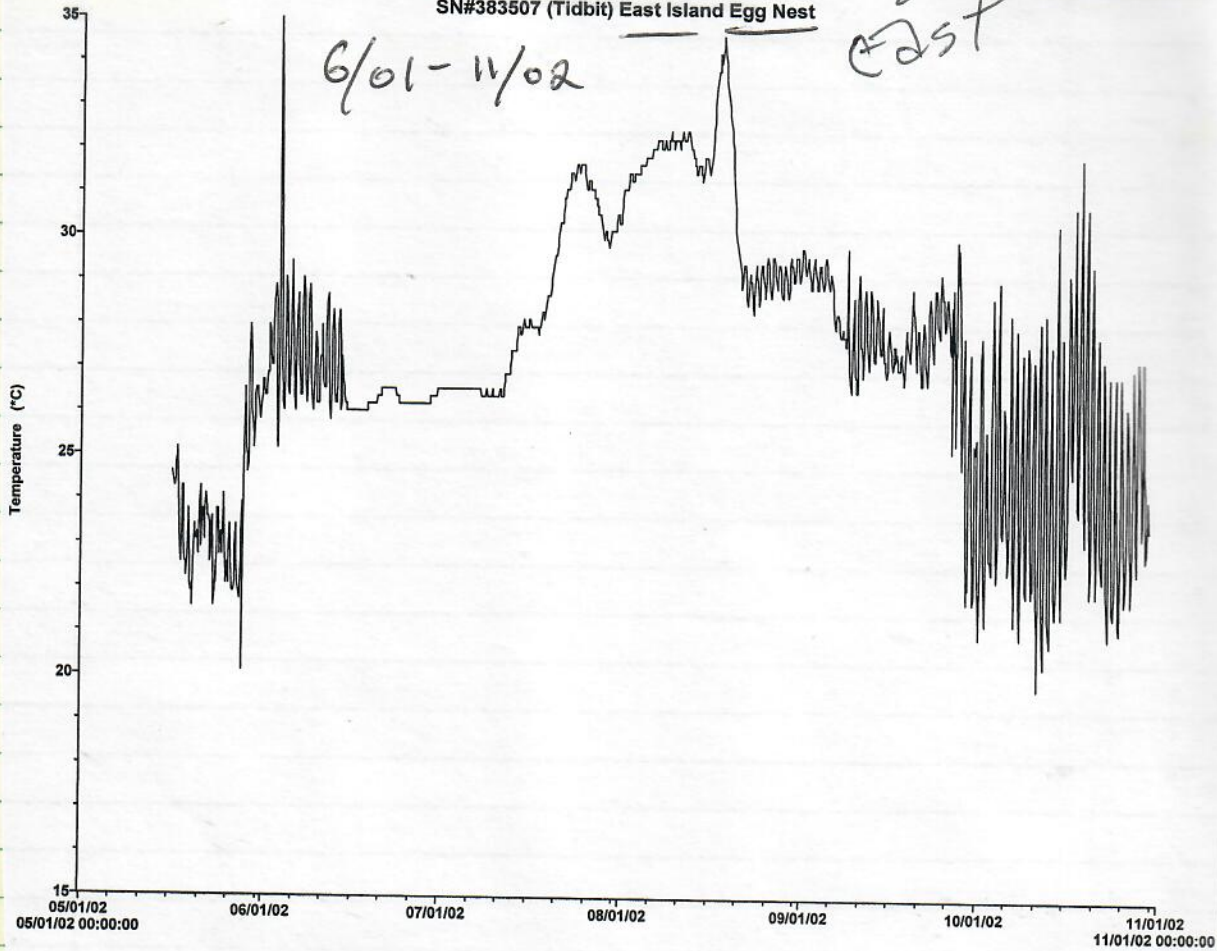




SN#383507 (Tidbit) East Island Egg Nest

2002  
East

6/01-11/02

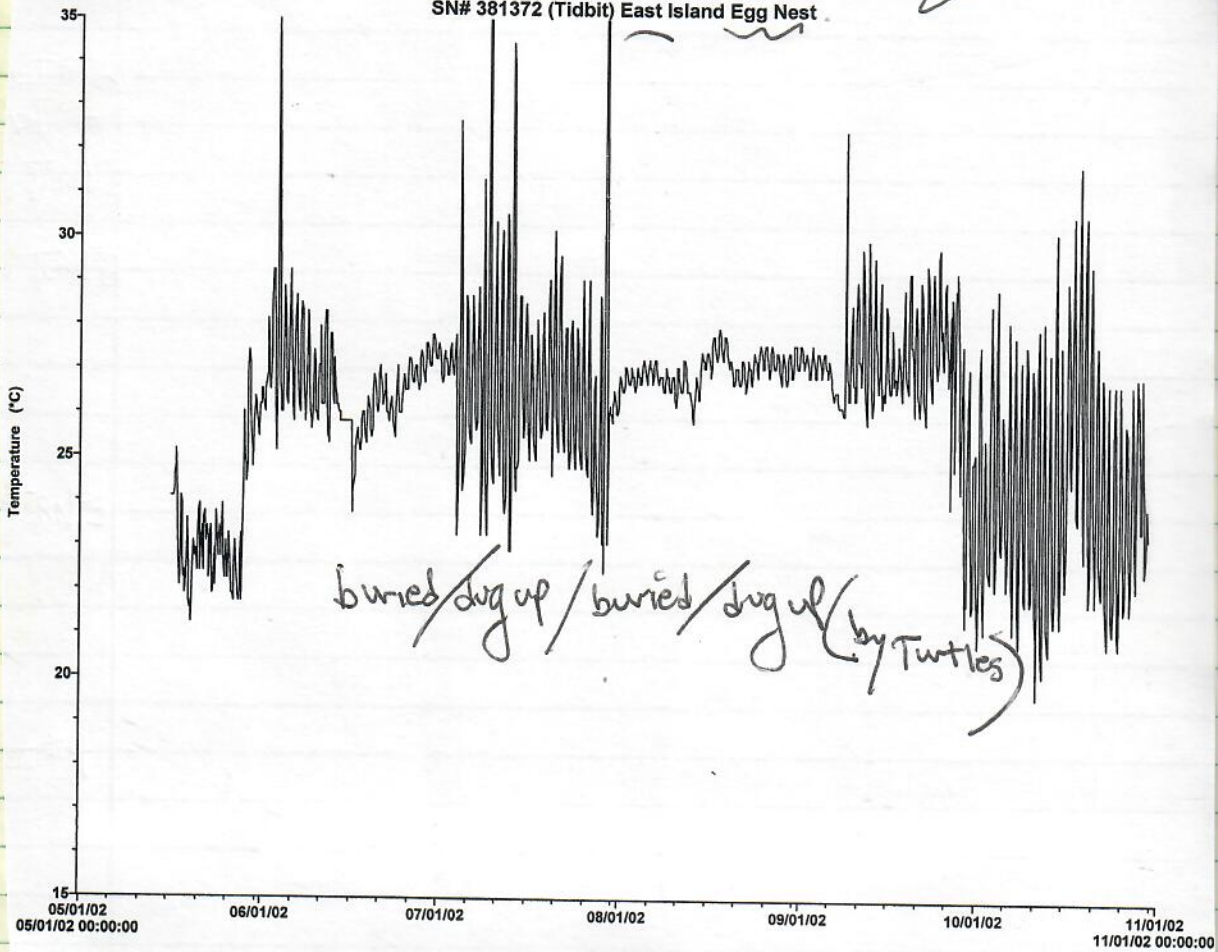




6/01-11/02

2002

SN# 381372 (Tidbit) East Island Egg Nest





5/02

2/26/01 bib  
Page 1 of 1

## Turtle Survival Factors

## Initial Sighting

Date: 5/22/2002

Time: 17:25

Island/Islet/Sector: FFS/Tailg/02 East

Observer: SMC

Survival Factor No.: 500

Turtle ID.: UNKNOWN

Size: Adult

Sex: Female

TRIG

## Description of Injury/Survival Factor:

Location on body: Right Forelimber recently bitten off by shark.

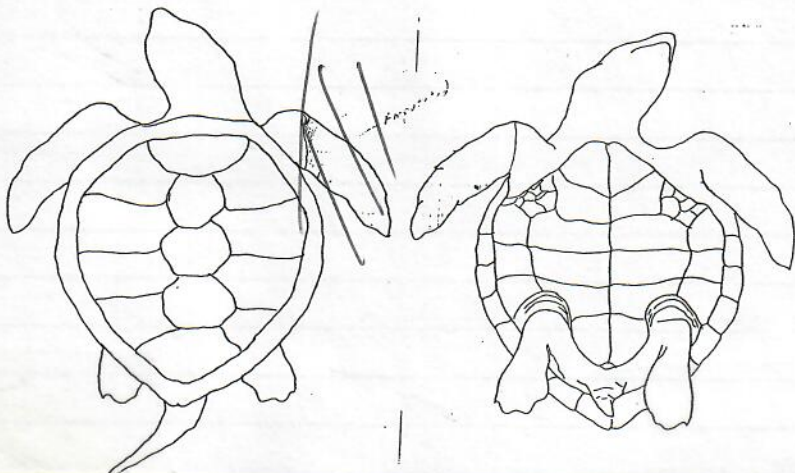
Type and number of Injuries/Abnormalities: No other injuries visible

Dimensions: Length 90% RFF amputated Width \_\_\_\_\_  
Diameter \_\_\_\_\_ Total Area Covered \_\_\_\_\_Color/Condition of Wound/Age of Injury: Wound is open, exposing bone & tissue.  
Looks recent w/in last week perhapsCondition of Turtle (mobility/alertness): Turtle alert and able to move around on beach.  
Turtle laying on beach slope but getting washed by waves.

Known/Probable Cause Large Shark

Comments:

Photos taken (Roll, frame #, comments, photographer): Digital # FF022069 &amp; FF022070, SMC





TOTAL SENT N=22

List of Stowaway and Tidbit Dataloggers Set at 3.2 hr Intervals Deployed at FFS, June 2003

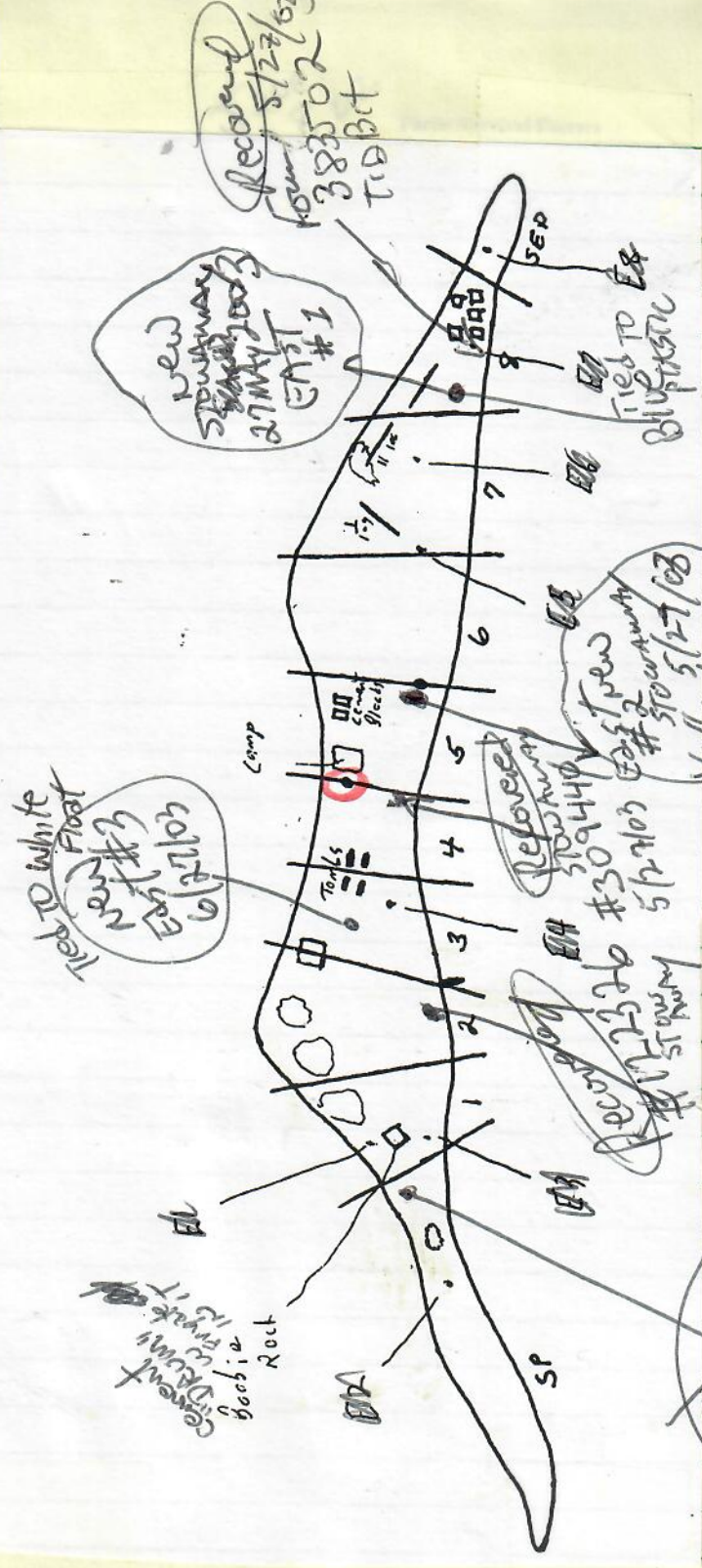
SAND/SOIL N=8

Egg Nests = 14

	ID #	Deployment Time	Deployment Location	Unit Type
	71054			SA
EAST #2	155020	5/27/03 GB/MR	Section 7 TIED TO YELLOW PLASTIC DRUM	SA
EAST #1	77501	5/27/03 GB/MR	Section 8 TIED TO BLUE PLASTIC	SA
TERN #1	141198	5/26/03 GB/MR	Shell Beach - TIED TO CORAL ROCK	SA
	266016			SA
TERN #2	144073	5/26/03 GB/MR	JUST WEST OF SEAGS TIED TO WOODEN STAKE	SA
	464580			SA
	243573			SA
	243570			SA
	1409			SA
TERN #3	557684	5/26/03 GB/MR	~ 50 YARDS WEST OF 1200 TIED TO METAL ROD #2	TB
	557680			TB
	557682			TB
	557681			TB
	557683			TB
EAST #4	557671	5/27/03 GB/MR	SP Near Sec 1 boundary TIED TO RED BASKET.	TB
	557674			TB
	383500			TB
	381364			TB
	557677			TB
TERN #4	383507	5/30/03 MR	BY TENNIS COURT BURNED BY MOUND RICE	TB
EAST #3	557685	5/27/03 GB/MR	SECTION 3 west of TOMBS - Tied to white plot (?)	TB

SA = Stowaway  
TB = Tidbit





MAY 2003

Deployments by  
G. BARAZS

Tied to  
 EAST #1  
 Tied to  
 EAST #2  
 Tied to  
 EAST #3  
 Tied to  
 EAST #4



JUNE 12, 02

net entangle

2/26/01 bib  
Page 1 of 1

Initial Sighting

Date: 06/12/02  
Time: 1531  
Island/Islet/Sector: Trig E2  
Observer: PBF, JP, DEL

Turtle Survival Factors

Survival Factor No.: 502  
Turtle ID.:  
Size: 73  
Sex: ♀

Description of Injury/Survival Factor:

Location on body: Net wrapped around turtle's neck ~ 10 loops

Type and number of Injuries/Abnormalities:

10 LOOPS

Dimensions: Length \_\_\_\_\_ Width \_\_\_\_\_  
Diameter \_\_\_\_\_ Total Area Covered \_\_\_\_\_

Color/Condition of Wound/Age of Injury: \_\_\_\_\_

Condition of Turtle (mobility/alertness): Turtle floating/swimming slowly. Then attempting to haul out a few times then back in water. He was out for ~ 30 min but did not haul out. He was very lethargic and did not respond to calls. He was very close to the shore. Two people held him while the person cut loops around his neck.

Known/Probable Cause: Trawl net?

Comments: \_\_\_\_\_

need photos

Photos taken (Roll, frame #, comments, photographer): Digital Instatover Camera # 2002-0100  
John Pishon



June 8, 02

Turtle Survival Factors

Initial Sighting  
Date: 06-08-02  
Time: 09:05  
Island/Islet/Sector: Trig  
Observer: Dan Luer  
Survival Factor No.: 501  
Turtle ID: \_\_\_\_\_  
Size: Adult  
Sex: Male

TRIG  
Tower

Description of Injury/Survival Factor:  
Location on body: Rear end - Tail

Type and number of Injuries/Abnormalities: Tail dismembered, flesh hanging from injury. Right rear flipper slightly ripped.

Dimensions: Length \_\_\_\_\_ Width \_\_\_\_\_  
Diameter \_\_\_\_\_ Total Area Covered \_\_\_\_\_

Color/Condition of Wound/Age of Injury: Was red and bloody / Likely occurred last night.

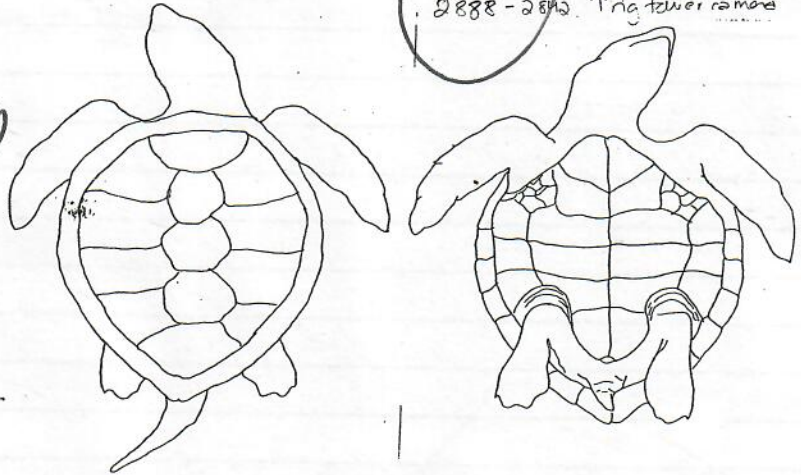
Condition of Turtle (mobility/alertness): Was resting on beach. Seemed somewhat alert but looked sickly.

Known/Probable Cause: Shark attack.

Comments: Turtle bite was fresh and still bleeding. Several other locations on beach (150m west) were also heavily bloody from a turtle injury (likely same individual).

Photos taken (Roll, frame #, comments, photographer): Dan Luer's frame 1-11 (digital camera) 2888-2892 Trig tower camera

Need photos



Date: Fri, 3 May 2002 14:45:57 -1000  
From: Shandell Eames <seames@honlab.nmfs.hawaii.  
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.  
Subject: Re: MOTOTOOLS

I sent 5 lg. mototoools with 5 chargers.  
3 sm. mototoools with 6 batteries and 6 chargers.  
Weight = 16.1 lbs.



1  
Date: Mon, 13 May 2002 20:18:58 -0400  
From: Ursula Keuper-Bennett <howzit@turtles.org>  
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>  
Subject: Wahine due at East in 2002

436C last nested June 1998  
612C last nested June 1997  
605C (our TDR honu!)  
408C last nested June 1999  
Mendelbrot U359 last nested June June 1998 (?)  
Shredder A240 last nested June June 2000  
U362 last nested June June 2000  
U249 last nested June June 2000  
McTaggart F765 last nested June 1999  
Tutu U521 last nested June 1999  
Tiamat 122C last nested 2000

FFS  
Reduce

And George U362 is CRITICAL to get a left AND right for. ESPECIALLY THE RIGHT! I can't stress this enough. U362's left is IDENTICAL to "Kimo" a very large turtle (presumed female but no tags) in 1992 who had horrid tumours. But eyes seemed ok. Well now we know that meant regression. But if this U362 really IS "Kimo" her recovery is astonishing.

The only way we can tell for sure would be to see U362's right facial markings.

The only other honu to watch out for is of course 605C.

We built up quite a roster huh?

I hope they all make it safely back home!

Anyway. Peter didn't sleep well last night so we're turning in very early --like now. 'night.

Date: Tue, 11 Jun 2002 22:55:13 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: from aaron

Aloha George,

Well, after all the hassles of trying to get out there things came together. Didn't make it out on the 2nd, but made it on the third. There are a lot of turtles this year! We have already IDed more than 180 nesting females. There are as many as 55-60 up a night already. On the fourth night I had over 40 new turtles (busy busy). I found four of the "special" turtles so far, including the one that required close-up head shots (got her crawling and got her patty-caking). I put a datalogger in one of the "special" turtles nests so (just for kicks) can eventually tell Peter and Ursula the sex of the hatchlings (approximate). We have recovered 4 dataloggers from previous years, two from last year (tidbits, both on East) and two from the year before (stowaways, one on East and one on Tern). I don't remember if you have ever told me which to prioritize higher, but with so many turtles up I figured more important to get a certain amount of ID work done and only complete 5 walks a night, rather than try to get all 6 walks a night done and miss some ID data. I don't think that by doing this we'll miss any turtles, just might not catch as many nests as we would doing 6 walks. There are 7 mom and pups on East right now (there were 9 for the first couple days) which makes things especially tough getting around, but by next week it should be down to 5. I will send daily totals tomorrow (I didn't bring the #'s with me and it was raining last night so Erin couldn't pass them over the radio). Thats all for now.

Aaron

P.S. mahalo for the beer!



Date: Sat, 15 Jun 2002 16:34:30 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: From Erin and Aaron

Aloha George! I just wanted to let you know that we will be sending all items previously discussed back on the 17th flight. In the interest of power, I'll make photocopies of the 1997 data during daylight hours to save energy and I'll put everything else together for that flight as well. Having a great season, still having large numbers (~300 so far) and lots of interesting sightings! Thanks for the goodies on the last flight, talk soon.  
Erin

Date: Thu, 13 Jun 2002 22:36:50 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: from Aaron

Hey again,

Just a quick update; One-found the original datasheets (sightings and ID forms) from '97 and was wondering if that was something that you were missing? Two, the reason I found those datasheets was I was looking for the daily total form from that year (there isn't one, but I made one from the datasheets, for reference), and once I had those #'s ('97's daily totals) I did a comparison of the first week of camp (excluding the two training days), and this year we have had just about 10% more turtles than '97. If these numbers continue at the same relative rate we are looking at having more than 500 nesting females. Holy Cow! You started us out with 400 PIT tags, plus the 113 that were here, and I figure we may need as many as 700 for the season. That would mean 200 more tags needed. Sorry I didn't get this figured out earlier. Hope all is well, sounds like you had a good time on Maui (Glynnis just walked in and I gave her the news about turtle 5690, put a smile on her face).

Date: Thu, 13 Jun 2002 01:38:34 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: from aaron

Aloha again, here are the daily totals (total turtles and new IDed, not including nest #s) :6/3-16 total, 16 new (training night, not a full night), 6/4-25 total, 22 new (training again), 6/5 39 total, 30 new (first full night of walks), 6/6-50 total, 41 new, 6/7-55 total, 32 new, 6/8-29 total, 10 new (seals kept me from getting to a lot of turtles this night). It was raining again last night so didn't get Erins # s yet, but will send in about a week. Also having to watch PIT tag consumption at this point. We are somewhere around 230 turtles so far, and early #'s showed right around 1/3 of the turtles were previously PIT tagged (actually 42/150). I will have Erin email you an update of daily totals and PIT tags left/needed. Also, I found 113 PIT tags in the F&W bio-room; 25 of those were the ones that I had left last season for Tony to tag stranded turtles (you had me write "for turtle use only" on them, which is how I know that those are the ones from you). Do you know where the rest of them came from? Can we use if needed? We should be alright at least to this flight (there are 160 left of the 400 that you sent out for this season, and on average we have gone through about 35-40 tags a night, but that should slow down soon). Next, I have tried to get some turtles tagged down at East Beach but there has been seals every time. Was thinking maybe instead we could actually just tag turtles that come up to nest right by the barracks (Glynnis thinks it is a much better idea). That's all I can think of right now.  
Talk soon,



Date: Sat, 6 Jul 2002 22:43:27 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: from Aaron

Aloha George, welcome back. Did you return early or did I have the dates wrong? Well, what a season. I managed to arrange to have camp go until the 8th so there are still a few nights to go (don't think Domo got wind of this, otherwise it might not have happened due to her sceptisizm of my performance last year, but I assure YOU that all will be taken care of and I felt we needed those extra couple nights; besides, Domo way overkilled the time allotted for breakdown/clean up seeing as how there are two of us this year, and what she doesn't know wont hurt her). I am fairly sure we won't set the new record for nesters this season, but will be somewhere over 450 which is nothing to complain about. That along with the satellite tag recovery, I think a total of 8 dataloggers recovered from previous seasons, the L2 and A1 resights with photos, two nesters with fiberglass remnants w/photos, 7 of 11 of the "special" turtles found (all with pictures I think, found the one that had had the TDR pouch but nothing there), one of the Honokawai turtles has a datalogger in her nest so someday the Bennets may know the sex ratio of their girl and got pics of that. All in all there has been more good than bad!

I am glad to hear that you had a good time in Taiwan, and I don't think I'd ever have a boring time doing turtle walks on any beach (when I get back I'll tell you about my dream a couple nights ago, but it involved turtle walks through a suburban neighborhood, turtles laying golden eggs, and Tim Clarks' signature along with mototool #'s on some of them...crazy!?!)

I hope you don't mind but I needed some essentials sent out here and I left your office address for the package to be sent to (sometimes hit and miss with USF&WS) with the hopes that it could be put on the boat headed this way in a week or so. It will probably be too large to go on the plane on the 12th, but the boat it scheduled to arrive here on the 19th. If it doesnt work out it won't kill me, but would be nice.

Anyway, sorry for a kind of long rambling letter, but haven't talked to you for a while now. Thanks for all your great emails (always make me smile). I have got to get back to proofing data, but if I forgot anything I will write again soon.

Aaron

P.S. I found a segmented worm that had burrowed in the white padding beneath the sat. tag, so I put in a sample jar to send to you along with the pad and of course the tag. Unless you don't want/need. Aloha



Date: Wed, 10 Jul 2002 16:49:44 EDT  
From: Hinwr@aol.com  
To: gbalazs@honlab.nmfs.hawaii.edu  
Subject: from Aaron

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Aloha George,

Just a quick note of a couple things:

1) It was suggested to Domo that instead of making copies of the datasheets from this season here, that it be done in F&W office by Erin immediately upon her return. Seems like a good idea because of the volume of sheets to be copied (around 500 sheets by my estimate). This could not have been staggered throughout the season here because with the new datasheet format most sheets are not complete and proofed until end of camp. If this sounds acceptable to you then I guess you have the consideration of if you feel more comfortable with the copying being done at the F&W office or if you would like that to be done at your office (I know what Domo/F&W will prefer). We can still do it here, but I really think because of Tern Is. resource issues that it would make more sense to do it in Honolulu at whichever office. Data-field books were not mentioned, but probably should be done at the same time if it is to be in Hono.

2) If copying is going to be done at F&W office then should Domo just pick Erin up at the airport, Erin could go straight to the office and make copies, then meet with you later that day (or at your earliest convenience) to give originals and debrief?

3) I am pretty sure that Deb (refuge manager) had or will ask you about biopsy samples on stranded turtles, and in my rummaging through turtle supplies in F&W bio-room had seen in her stranded turtle kit that she put together she had put the biopsy supplies in there and had been taking them out with her (don't think she had used yet). It is my STRONG recommendation that she not do this, or do any PIT tagging either. I made a few sections of fencing in a couple key spots and there has not been a stranded nester since (almost 3 weeks which is very encouraging considering the high # of nesters) so there may not really be any more stranded turtles to deal with anyway. I will send a letter with my reasons for making this recommendation with Erin to give to you.

4) Camp breakdown was yesterday (July 9) and went very smoothly, thanks to the help of the NMFS seal team. They have gotten it from me several times, but they have really gone above and beyond in their support with camp this season and deserve big mahalos. The remainder of cleanup and wrapup of data is right on track.

5) If at all possible it would be nice to take some supplies that are not used (outdated/expired satellite tagging supplies, a few pop-tents, etc.) out of the turtle closet and maybe send back on a boat while I am still out here and can oversee. One reason for this is to make used equipment easier to get to, but mostly I would like to put more of the big stuff (fence, fence posts, tent stakes, etc.) in the closet and not in the more publicly used areas as had been done in the past and has led to the loss/damage of those items. I put a locking doorknob on the closet door and gave Deb one of the keys, kept other and will give to her at the end of cleanup. I also put one of your tags from a bucket that read "FOR TURTLE CAMP USE ONLY - GEORGE BALAZS, MTRP" on the door handle to drive the point home.

Thats all for now,  
Aaron