

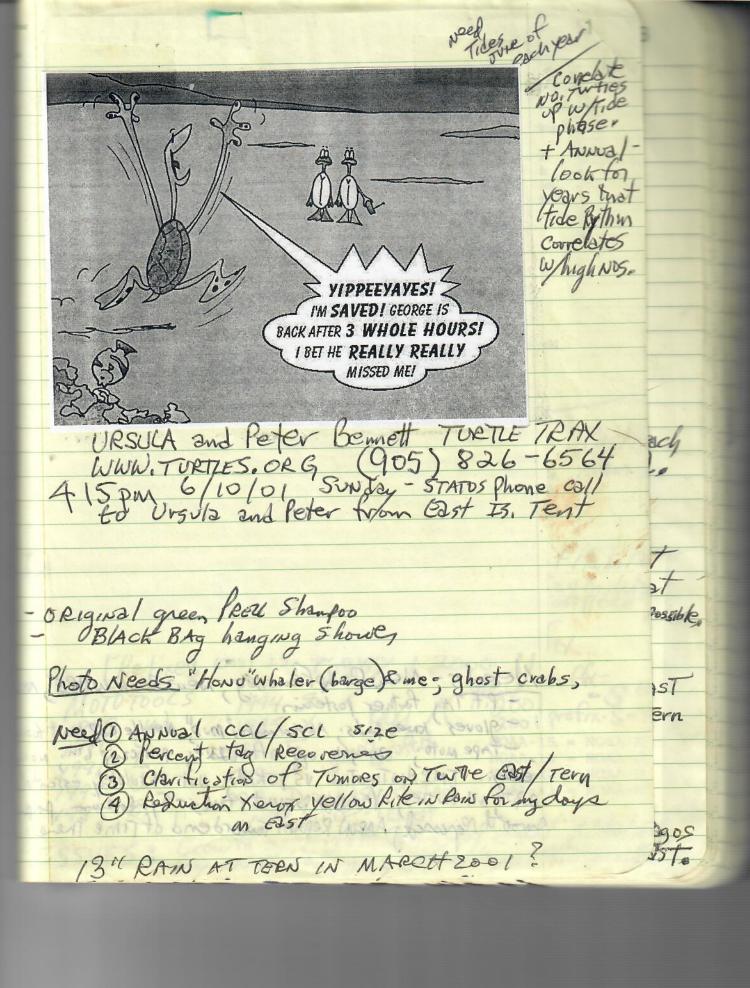


FFS Expedition No. Reconnecting to a time "
6 JUNE 2001 - P. 63 Bob Jostanis
Tide chart P. 106 TO RECONNECT AND Recall DAILY TOTALS
The Good Times and the badtimes "1999 = P.31 DAIL TOTALS-2000 = P.101 6 - June 2001 ed. Thurs. 2001 = p 103 2001 estendar p. 106 BASKING Census PHOTO LOG P. Data Loggers p.94 TAPE I GOMIN - ALL TERN TAPE 2 60 MIN - ALL EAST Tape 3 60 in -1 His pm departure from East 6/13/01 Wed .=

1 You don't have to worn about never

1 cowing back, because you never left.

And you never will, GIVE Away TAGS Kecoverage + PIT TAG NUMBERS



I. General Monitoring

The 1999 turtle season was a short season consisting of only one month of monitoring. There were 198 nesting green sea turtles (*Chelonia mydas*) identified on East Island during this time as calculated from the ID data.

Turtle Camp began on June 1, 1999 and went through July 1, 1999 consisting of 31 nights of monitoring. Each night ideally consisted of six turtle walks around the island at 21:00, 23:00, 1:00, 3:00, 5:00, and 7:00 (sunset to sunrise). Due to the duration between walks, it is possible that some turtles that were up crawling or digging false pits were not seen. However, it is unlikely that those turtles that actually nested were not recorded as being up.

There were 270 possible nests recorded on East Island during the season. Eggs were witnessed for 68 of these nests. Turtles were seen covering egg chambers (patty-caking) for 68 nests and backfilling 134 nests.

II. Data Notes

Identification data is recorded in the DBASEIII file EASTID99.DBF. This includes tag numbers applied and measurements taken for nesting females in the 1999 season on East Island. It also includes tumored turtle information. Sighting information is recorded in the DBASEIII file ESTSIG99.DBF. This file contains the turtle activity for each night of monitoring.

Moto-tool numbers A40 through A238 were used during the 1999 season. Moto-tool number A43 was accidentally not used, giving one less turtle than would be expected by adding up the moto-tool numbers.

Internal, magnetically coded PIT tags were used for the second season at French Frigate Shoals. No external tags were applied. PIT tags were applied in both the left and right hind flippers. PIT tags were not in series, but most tags this season began with 4135-, 4136-, 413E-. A few tags with the prefixes 411F-, 4134-, 4137-, and 413D- were also used. Tags were verified using a portable PIT tag scanner after the second week of turtle camp. Verified tag numbers are recorded in the file ESTSIG99.DBF under the heading "vertagno".

The tags 41356D1967 and 4135690C2C were misapplied and recovered. The needle pierced the flipper but the tag was not injected.

III. Tumors

Needs - New Compreneing, New Cook WARE, New Text

- Pit Tag Partner posterion

- gloves knue pads. Alcoholmakes Mud, Needle cap Lout Golwit,

- Tape moto: 2 mights off after 1200, pull camp 6tm. No computer
entry. TMR distinction vs 5kin; Not absolutely essential

2 pits all Turtles: Vannega project-fines - Symposium paper
Amonth Represede; AARON Repairet Toward end of Time there i

Twenty four turtles had tumors this year, or 12.12% of the nesting females on East Island. The tumored turtles were A52, A55, A64, A66, A77, A82, A86, A95, A117, A123, A124, A127, A148, A150, A155, A158, A161, A177, A178, A199, A210, A218, A228, and A238. Tumor sizes and locations are recorded in the ID database file. IV. Data loggers Eight data loggers were buried on East Island to measure sub-surface temperatures during the nesting and hatchling season. East Island data loggers were designated E1-E8. The data loggers were buried 40-50 cm deep at various locations around the islands. The dates they were buried are as follows: June 3 - E3, E4, E5, and E7. June 4 - E6. June 5 - E1, E2, and E8. Each data logger is tied to a stake and a map of approximate locations of the data loggers accompanies this report and is on file in the Tern Island office. The data loggers were left in the ground at the termination of turtle camp to be recovered at a later date. V. Miscellaneous Notes Turtle A66 had a fish hook in her right shoulder. The barb of the hook was cut off, the shaft removed, and the site sterilized with betadine. Turtle A78 had old moto-tool number V180 still visible. Turtle A82 had fiberglass from an old satellite tag. The scute looked normal where the tag would have been. Turtle A95 had a blue tag a R34 with the numbers worn off. TAKEN OFF? = TAG Turtle A154 had the old moto-tool number V116 still visible. 1997 Turtle (A162) ad a large metal tag on her right front flipper with the tag number 1306. TAG= One turtle died on East Island this year during the first week of turtle camp while basking. No reason for her death was obvious. A biopsy was not performed since she was not discovered for at least 24 to 48 hours after her death and was extremely bloated. She had tags 483-C LHF, 482-C RHF and 484-C RFL. She measured 97 cm straight carapace length and 104 cm curved carapace length. The ulma was collected for age studies and a piece of skin was collected for genetic analysis. ON North, Share is Grown of Island an Sauty. Whill Island be in snother 60 years 7 loss of poce MOTOTOOCS 1994 Z
1989 W
1995 X
1990 C
1996 J
1997 V
NOAA-15 = NOAA-K
NOAA-14 = NOAA-J
NOAA-12 = NOAA-D
NOAA-12 = NOAA-H
NOAA-11 = NOAA-H
NOAA-11 = NOAA-H

NOAA-11 = NOAA-H

DSSUES Growth of Figste Colons of Cast to Salagos

Tops on total hags Camplage Nating on Cast

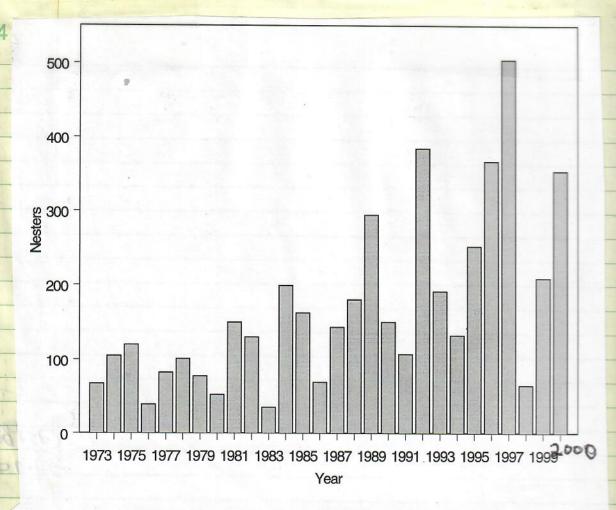


Figure 1. Estimated number of green turtles nesting at East Island, French Frigate Shoals.

Nurvey Estimated
1973 43 67
1974 59 105
1975 30 120
1976 13 39
1977 9 82
1978 11 101
1979 13 77
1980 20 52
1981 23 149
1982 19
1985 18 162
1986 29 69
1987 26 143
1990 133 150
1994 26 132
1995 31 252
1996 31 209
1997 33 353

Date: Tue. 22 Sep 1998 15:59:01 EDT From: Hinwr@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu Subject: note from Tern

Hello George,

Sorry about the delayed response to your messages. E-mail is new to me and I need to get accustomed to using it. Thank you for the update and your kind remarks. We feel great about being of assistance to you and helping your project be successful.

Since your departure, we had one sighting of a instrumented turtle, D-70 on Tern Island on 5 September. Visits were made to East and the Gin Islands on 15 September. We will be visiting Trig Island at the end of the month and East

and the Gin Islands shortly thereafter.

I ended nightly turtle walks on 20 September due to lack of activity. No turtles were up on 7 nights over the last two weeks and no turtles were up on the last three nights. The last new turtle identified was on 4 August. A season total of 39 nests were marked for hatching success analysis and 34 nesting turtles were identified. Julie will provide a full report ASAP.

Aloha, Brian

Date: Fri, 20 Nov 1998 14:52:40 EST

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: FFS turtles

Aloha George-I Can't Believe my time here on Tern Is almost up, only 3 more days on land two days traveling the open ocean and if all goes well I will be home the day before Thanksgiving. On Nov.16 we successfully dug up the remaining four Data Loggers on East Island I will be digging up the ones left here on Tern the day before I depart (Nov. 21) and all of them will be comming back with me on the Cromwell.

If you have the time, It would be helpful if you could send us a quick note confirming the number of data loggers still remaining on Tern Island. Thank you, Julie

Hi George,

I was hoping that you could please confirm the sites of pit tag deployment on the juvenile turtles. We remembered you saying to pit tag the front and hind left flippers but I was still a little uncertain. The first two juvenile turtles of the season washed over the seawall in a recent storm. Julie did a green jeb provider demonstration for all the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be reall the rest of the season washed to be really the season washed super job providing demonstration for all the rest of us. She will be bringing you the tissue samples. Thank you. Brian

Date: Tue, 24 Nov 1998 09:19:52 -1000 (HST) From: Denise Ellis <dellis@honlab.nmfs.hawaii.edu> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: Temperature data loggers.

George FYI - just a list for you to keep your eye out for, we still have some data loggers up at FFS or if they have returned I havent downloaded them yet. None of these have been deployed recently either so no worries AREA 1 "E3" about lost data. The list is as follows: From 1997: S/N 17475 (hobologger E3 - tag BBA477) S/N 71042 (Stowaway T472 tag Z956) >From 1998: S/N 122325 (Stowaway T1) Tel S/N 122323 (Stowaway T4) Tel S/N 144073 (Stowaway E1) 605t S/N 144070 (Stowaway E4) cost S/N 1409 (Stowaway E5) cost S/N 122326 (Stowaway E8) Gast S/N 181186 (Stowaway N1) S/N 181194 (Stowaway N2) S/N 181192 (Stowaway N9)

- The following addresses had permanent fatal errors ----<gbalazs@honlab.nmfs.edu>

---- Transcript of session follows -----550 <gbalazs@honlab.nmfs.edu>... Host unknown (Name server: honlab.nmfs.edu: host not found)

---- Original message follows -----

Received: from Hinwr@aol.com

by imo27.mx.aol.com (IMOv16.10) id CQNYa02195 for <gbalazs@honlab.nmfs.edu>; Mon, 23 Nov 1998 18:44:21:-0500 (EST)

From: Hinwr@aol.com Return-path: <Hinwr@aol.com>
Message-ID: <db9b576d.3659f355@aol.com> Date: Mon, 23 Nov 1998 18:44:21 EST To: gbalazs@honlab.nmfs.edu

Mime-Version: 1.0

Subject: FFS turtles reply Content-type: text/plain; charset=US-ASCII Content-transfer-encoding: 7bit

X-Mailer: AOL 3.0 for Windows 95 sub 18

George,

Thank you for the information on turtle tagging. Julie did a superb job on demonstrating application technique --I just wanted to clarify which flippers were to be tagged being that my memory of what you said wasn't fully clear.

Julie did leave before your message arrived (on the Cromwell during the afternoon of the 21st). She has the East and Tern Island data loggers with her and will be bringing them to you. If it turns out that not all of them were retrieved, please let me know and I will locate them. I will be coming into Honolulu on 9 December to go on vacation and could bring them to you then.

My understanding is that Julie also has tissue samples from two turtles. The Cromwell departed early and I did not get a chance to ask her. It would be great if you could let me know if you receive them.

It was a real pleasure working with Julie and she did a great job for us. If Tim or Vanessa do not return for the 1999 East Island camp, Julie has my full support and recommendation for the position. Take care. Aloha, Brian.

Date: Mon, 30 Nov 1998 22:17:37 -0500 From: Ursula Keuper-Bennett <howzit@turtles.org> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Cc: honu@turtles.org Subject: Ode to Going Nutz [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] (With apologies to Emmett) Wish I were at GBI With no one else around Flying with the Sooty Terns Far above the ground I'd watch the honu swim below Heads poking up for air And basking in the shallows I'd see Aikane there! Walking 'long the shoreline I'd set Imagination free And taste the kickass THUNDER Of a Douglas DC3 Instead I'm stuck in Canada The honu far away Fussing with this abstract... -and it doesn't GET more boring than that...plus there's a driving rain here... PLUS the French Frigate Shoals are playing the Honokowai Honu at Whaleskate 8:30 pm your time and we don't get it on our cable *bummer* (Peter just came down the stairs. Guess his part's done too. Maha for all your help sir. Got past the first hurdle... Date: Thu, 3 Dec 1998 11:30:55 -1000 (HST)
From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> To: Skippy Hau <skippy@dar.ccmail.compuserve.com> Cc: Denise Ellis3 <dellis@honlab.nmfs.hawaii.edu>, Shawn Murakawa <smurakaw@honlab.nmfs.hawaii.edu> Subject: Satellite Transmitter Tag 4800 Jeth Skippy Thanks for the message left on my phone recorder yesterday while I was in the Big Island. Great News indeed of the first-hand sighting at 40' off the Lahaina Chart House of our turtle 4800 (transmitter deployed early September 1998 at East Island Frènch Frigate Shoals. She was a nesting female. We've tracker her to that area mentioned, but of course the technology of satellite telemetry usually isn't suitable for finite resolution of location. In a few minutes I'll fax you the tracking map. We continue to receive signals from her on a daily basis. But the quality of those signals is not sufficient for pin-point accuracy as was possible by diver Randy Miller. I think it would be best if you took the lead to call Randy back to convey this information. If you would do that, please also obtain a mailing address and we can send him some literature from here. Also, it's important to mention that Randy's observation of there being no antenna was entirely correct. This transmitter is an experimental design having an embedded internal helix antenna. We call it the GeoBar. Only four have ever been built (by Telonics in Mesa, AZ). Two were deployed here in Hawaii, the other two in Florida by Barbara Schroeder of our agency. Best regards, Thanks for the wonderful information. George

Date: Wed, 7 Apr 1999 23:56:42 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Tern Island

GB podure

Hello George! It's been quite some time since we last communicated, so I thought I would give you an update on happenings here. I'm not sure what has changed, but we have not had any entrapments of juvenile turtles all winter. The last were two that washed over in November when Julie was still here. We have had high seas wash over and through the seawall on several occasions, with one event on 26 Feb that sent water and debris (and fish) across most of the runway. I'm not sure if this means that far fewer are present this year or if possibly they are escaping through the rapidly expanding holes in the seawall. We had been sighting juvenile turtles on the north side during this time. Recently, we have noted an increased number of adult turtles around the atoll (most seem to be males). We have also observed two copulations, one off Little Gin and one near East. There were approximately 12 hauled out at East on 1 April. Glad to hear that you will have a solid bunch of turtle folks out here this year. Chuck told me that Tim and Allison will be doing East. I'm real happy for Julie and Vannessa --sounds like some exiting work. Well, hope to see you out here this year. Let me know if I can help you out in any way. Aloha, Brian.

4/12/99 10:06 AM Sender: John R. Henderson George Balazs Pority: Normal bject:Message from Lisianski George--FYI turtle info below

Date: Mon, 12 Apr 1999 18:38:08 +0000 () From: 493133026@msg.por To: cus328@cbox.aor

19lis2hon Lis ok Cenus tot 65.7, n=3; 14 births, 2 dead, 2 weanrs. AP & DS saw birth.#44—New entglmnt S3/M w/ eel cone on muzzle & freed (1 turtl necrspy; muscl & humeri smpls colletd 4 George. Cheers—DAL

Date: Fri, 16 Apr 1999 01:52:54 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: FFS turtles

Hello George,

Hope you had a great trip to Taipei. Thought you would like to know that numbers of basking adult turtles have continued to increase over the last couple of weeks. On 13 April, 10 males and 2 females were observed basking on Trig Island, and on 15 April, 14 males and 12 females were observed basking on East Island (most on the SW end). Sightings have increased on Tern as well. We are keeping notes on the activity and have stepped-up on the detail for you. Looks a good season ahead.

Aloha, Brian

Date: Wed, 21 Apr 1999 03:13:45 EDT From: Hinwr@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu

Subject: FFS turtle update

Sounds like you had a nice visit at Taipei. Turtle numbers are continuing to rise at FFS. We traveled to the Gins and East on 17, 18, and 19 April to collect samples for contaminents work, and we conducted some counts for you as well. At East, on the 18th, three turtle pairs were observed copulating (no full count was conducted), and on the 19th at 1400, we conducted an island-wide count: five copulations were observed, 20 male and 21 female adults were basking, and 11 adults were sighted in the water just off shore. We also recorded the following tags: 5253 RFL (male), 788-C LRL (female), G-136 RRL (female), F-820 RRL (female). On 19 April, at Gin Island, we counted 3 male and 2 female adults basking, and one copulation at waters edge. A full count was not conducted at Little Gin, but numbers looked to be near the same as at Gin. On the 17th, we sighted 3 adults basking at Round and none at Mullet. We have not been to Trig or the Whaleskate area since I last wrote you, but we will go there within the next week. On the 17th, at Tern Island, one copulation was observed in the west channel. On the 20th, at Tern, 6 adult males were sighted basking.

10

Date: Sat, 1 May 1999 02:18:52 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: Tern turtle data 5-99 Fredur

Hi George,

We have turtle ID data for two years on Tern Island, 1997 and 1998, in dBase III files. Past nesting and hatching success data is on forms only, so there is no electronic version. I have made a copy of the 1997 and 1998 dBase files for you and they will be going out on the plane on Monday, 3 May. I sent 4 different files for 1997 and I'm not sure exactly what you are getting. The 1998 files should be all data entered by the three volunteers that worked on the project: Julie, Jennifer, and Rita (supervised by Tim).

Since I last wrote you, we have been to Trig and Shark Islands. At Trig on 27 April, there were 7 males and 5 females basking and 5 unidentified observed in the water just off shore. We also observed 3 body pits. At Shark on 25 April, there were 13 males and one female. One male was just over body-deep in a body pit, resting. We have also noted adults hanging out along the north seawall at Tern (as well as basking on beaches). One 29 April, we watched a male and female meet together and begin to engage to copulate --right along side the boat. One turtle sighted north of the seawall was a juvenile.

I will be going to Disappearing and the Gins late next week, or early the following week, transporting divers for contaminants work. I'll give you another update, then.

Sounds like super opportunity going to the Arabian Gulf! Aloha Brian.

Date: Thu, 6 May 1999 19:51:31 EDT From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Re: Turtles Galore?

Hi George

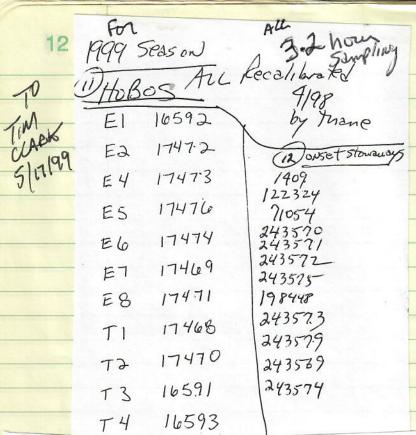
We haven't confirmed any nests yet, but we have noted a few body pits on Trig, East, and Tern. On 2 May on East Island, there were 24 females and 16 males basking. One female had an oozing cloaca and we saw just one body pit.

Brendan is a fine young man, a great worker, and would work out very well as an East turtle tech. I spoke to him about it and he is very exited about the opportunity. However, there is one potential problem. We tried to get Brendan hired on with us recently and were unsuccessful due to insufficient information on his application (his resume, which was geared for volunteer work, was mistakingly sent to Portland by our office). Chuck has gotten them to re-advertise the position and we expect to have him hired and on the payroll by the end of the month (working on Tern as a re-assigned Laysan tech). Although, there is some risk that it would not work out (ie., Vet). Because of this, Brendan has applied to other positions as a safegaurd. So, the short of it is that he is not for sure yet.

I do have one other concern about the East camp working arrangement which I spoke to Chuck about. If the other fellow who was hired, was "technically" hired for the East Island position, and he discovered at some point that his position was in reality meant to be for East work and not Tern, what recourse may he have? Could this put us in a bad situation? Maybe I just worry too much --and we can re-assign people as we see fit. I'm not sure of the rules of this sort of thing. I want to ensure that you have the personnel you need, but could you comment on this?

By the way, I'm glad to be of help to you and I thank you for asking if you could do something for me. One thing I can think of that would be great, is if you might have another one of those cool turtle shirts.

Fri, 14 May 1999 15:56:12 EDT Hinwr@aol.com gbalazs@honlab.nmfs.hawaii.edu ject: FFS turtles George, did a lot of boating over the last week for the contminants study and have little more information for you. On 8 and 9 May, we were at Disappearing and and saw two turtles hauled out on the 8th, only. On the 9th, I walked island and saw no body pits. On the 9th, we also passed by Trig Island. I not take a count, as we did not land on the island, but there were at st 10 turtles basking on the north shore. During the last week on Tern and, there were two supected turtle nests found by volunteers, based on teria I gave them to look for. Julie and Vanessa conducted their first sevented and last night. Most turtles are still male and they marked s yesterday and last night. Most turtles are still male and they marked female, which we rescued from the middle of the runway early this ing. We should make another visit to the outer islands within the next ex or so and I will pass along to you what we see. that you had talked to him). Everything is set. Brendan is on board to with Tim at East and Nicholson will work here on Tern with Vanessa and ie. I spoke with Vanessa and Julie about it yesterday. Tim will have time work with Brendan on Tern Island, so I think all should work out very well. The grasshopper, in feeding on 'ilima, is competing with native insects for food, he said. O'ahu, where it was found about 15 years ago at Sand Island. "Many of the insects likely arneed to study the results of his this trip. There are no non-native birds or mammals on Nihoa." That makes the insect invasion The last insect survey on Nihoa collecting before he knows better The grasshopper may have managed to fly on its own from Nishida said. "Some of the insects like the large grasshopper, which I found all over the island, are capable of flying great diswas in 1996. Nishida said he will how much the insect environ-"Nihoa is a relatively undisturbed ecosystem," Flint said. "Of the 26 plant species that have ever been found there, only six were alien. We "Many of them were found to be feeding on native plants, perhaps causing significant damage," Nishida said. "Others may be feeding on native insect species. Their impacts on the island's native pop-ulations are unclear." Nihoa is so remote and access so difficult that humans may not be the major source of new insect rived on Nihoa on their own," tances. Others perhaps hitchniked on birds or were transportfound only two ... non-natives on both unusual and a greater conment on the island has changed. ed by the jet stream." introductions. species, almost all of them native. U.S. Fish and Wildlife Service biologist Belt Flint said that except for the insects, life on Nihoa is largely native. miles northwest of the islands of Kaua'i County. It covers just 170 acres, and its 910-foot peak is the highest spot in the Northwestern day by the Rapture, one of two Program. For more information on the project, visit explorers.bishoppers, wood-boring beetles and Aus-tralasian cockroaches, outnumber as part of a multi-agency research effort to learn more about the isships participating in the North-western Hawaiian Islands Rapid museum.org/nwhi/. Nishida said the alien insects, which include the giant grasshop-per, three species of ants, leafhop-Nihoa, although rocky and eroded, has about two dozen plant One of the pests is a large, far-flying grasshopper related to the African desert locust, and it is eatda, who spent 10 days on the island He was plucked off Nihoa Thurs-Reef Assessment and Monitoring A plague of alien insects has infested Nihoa Island in spite of its isolation far beyond Kaua'i and ing native 'ilima bushes and com-peting with native insects. Nihoa is a lonely slab of rock 130 "The extent of alien insects on Nihoa is surprising," said Bishop Mu-seum entomologist Gordon Nishi-84 • Tuesday, September 26, 2000 remote island lands from Nihoa to Kure Atoll. the native insects on the island. Alien bugs By Jan TenBruggencate invading ADVERTISER SCIENCE WRITTER Hawaiian Islands.



Date: 09 Dec 1998 20:27:52 -0500 From: Denise Ellis <Denise.Ellis@noaa.gov> To: gbalazs@honlab.nmfs.hawaii.edu Subject: Temperature data loggers

Still in the field: From 1998 - E8 - S/N 122326 (Stowaway) From 1997 (probably a lost cause) - E3 - S/N 17475 (Hobologger) T4 - S/N 70142 (Stowaway)

Nick Klicholson
P.D. Box 1101
Kilanea, HT 96754
808-828-1520
email: betspat@gte.net

1999 FFS Season - Temperature loggers

	Hobo Logger	
	S/N number	FFS number
40	16592	E1
	17472	E2
77	17473	E4
	17476	E5
	17474	E6
Į,	17469	E7
	17471	E8
9	17468	T1
	17470	T2
	16591	T3
	16593	T4
	Optic Stowa	wavs
Ò	S/N number	
3	1409	
	122324	
4	198448	
	71054	
	243569	
	243570	
Ī	243571	
	243571	
	243573	
	243574	
	243575	
	243576	
	243370	

Five from Thane sent also

Date: Mon, 24 May 1999 13:16:31 -0500 From: Thane Wibbels <biof009@uabdpo.dpo.uab.edu> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: ke: URGENT Roder

George

I just returned from Fedex, 5 optic stowaways are on the way. I launched them so they just need to be put into nests. It would be useful to put a couple of them adjacent to nests with dataloggers in them. That is, one data logger in the center of the egg mass and another in the sand at midnest depth, about 0.5 to 1 meter away from the nest. Since we only have a limited amount of loggers, I would only do that for a couple of nests. In that way we can get a good handle on the metabolic heating which really looks interesting. Alternatively, you could also use the adjacent dataloggers as the "sand temperature" data loggers.

You will note that I taped over the light on the optic stowaways that I sent(with black electrical tape). If the loggers are going into nests, I do that so the blinking light will not affect the hatchlings. I have no idea what effect it might have, but this avoids any potential problems (since they seem to use light as an orientation cue). You will want to do this with your data loggers if they are going to be put into nests.

Date: Tue, 25 May 1999 11:48:53 EDT From: Hinwreaol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: FFS turtles

Hi George, Our e-mail was down for a short period, but we eventually received your messages. All is going well. Brian.

George,

Turtles are going well. Everyone is trained and we have bled 31 turtles so far with 1 tumored male and 4 tumored females. There have been 32 new females IDed with nightly numbers running around 8-9 turtles up. Seems like it will be a good year but not overwhelming. Mabe a "normal" year if there is such a thing.

I have a question about my employment after turtle camp. LeeAnne is expecting me to be working full time for her after East which will include weighing and bleeding the 60 turtles for her study, doing nightly turtle walks, and digging up eggs. When we talked, you seemed to have the impression that I would be mainly concerned with collecting biopsies for you. My question is who is paying me and what exactly are my job duties? My concern is that I will be working every night for LeeAnne and not have any time for manta work. LeeAnne has given me the impression that she is paying me and I am working for her. Let me know if this is true.

Brendon is working out well and has learned turtles pretty quickly. We also have a second volunteer working on Tern. Neither one of them have wrist watches. Could you please send two cheap watches up on the plane?

We will be starting turtle camp either on the 27th or 28th. I would like to start the 27th but may need to start on the 28th so we can train Nick to do turtles and the new volunteer to do Brendon's bird work. I have trained Brendon already on Tern so East should be pretty easy for him.

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lind, # of tentles sampled...). We
Was keep in touch.

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dot one dood was not wailable to us next you wie are only Samp 3 funding, most likely, will things have finially informed Monted to work. and you Shocked provided. many right on with all Vanessa Do much Stay - Since then two very that but the acha the 1 Tumored and slowed up a mation Smoothly. numly do Lee Ann About funns

Date: Tue, 1 Jun 1999 14:28:21 EDT From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: FFS turtle update

Hello Goorge-- We received your message on 30 May and we have some new information to pass along.

Brendan's employment as a paid technician has not been settled to date and this has affected earlier plans for East Island work. Rather than go into detail, I will just summarize the likely changes. Brendan will be leaves Tern Island on 2 June or 13 June and will begin preparing to go to Laysan Honolulu) if Personnel approves David's selection (we should know this week) This means that we have decided that he will not be working with Tim on East Island, unless he is leaving on the 13th and you and Tim feel he could there for part of the season. However, the most likely option would be that Tim would conduct work on East for the season and be spelled by Vanessa for a break/s. We feel it would be best to have Nick stay on Tern since he lacks much of the needed experience to work on a sensitive island (seal pups, burrows, etc). If you want further comment on this, please get back to us Sorry that things went this way. Brian.

George - Not sure how we are going to work out East Island this year. now it looks like I am doing it with a break somewhere in the middle of James from Vanessa unless something is worked out. I am starting camp tomarrow June 1st. Weather has kept me from starting earlier.

Dataloggers are under control. I am placing 8 on East in the sand and the rest are going on Tern. On tern 4 will be placed in their usual places and the rest will be placed in LeeAnne's study nests with a second one placed 1 meter away. Two nests have dataloggers already.

fedurel Glob

Aloha, Tim

Date: Wed, 2 Jun 1999 19:48:30 EDT From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu Subject: Turtle Update & 1 Joke

Aloha George,

Previously tagged turtles obs. (each # a ind. turt.)

1) LHF F949

2) LHF A964

3) LHF #876-T, LFL 7953, RFL TERN

4) LFL 5166

5)RFL W574, LFL W-576 6)LHF F-689, RHF F690, RFL F692, LFL F691 •7)RFL A937, LFL 8158, RHF U878, LHF A892

8) LFL 9749,

9)RFL W595, LFL W596, RHF 892T

10) RFL W965, LFL W966

~11) LFL W577, RFL W578

@12) LHF A956

@13)LHF G110, RHF G109, RFL G111 @14)Prev. PIT tag LHF 4136267D51

Study Turtles:

10 males sampled; 9 nontumored & 1 tumored

28 females sampled; 20 nontumored (10 D20) & 8 tumored (7 D20)

All is going well & all are hard workers. Tim wants to know if I (Vanessa) may spell him on East for a few days (give him a break). Would that be acceptable to you? We'll keep up semi-regular updates! Spontaneous bottles of wine sent out to Julie & I would be gracefully accepted :) !

Julie & Vanessa

George- I just spoke with Tim and he asked about getting spelled by Vanessa on a schedule of once per week. This would give him a break and an opportunity to do some manta work. We want to see if this is arrangement is OK with you. Brian

Date: Mon, 22 Mar 1999 00:14:51 +0000 From: Ken Lohmann < KLohmann@email.unc.edu> To: "Dr. Mike Salmon" <salmon@fau.edu>,
 "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: Fw: Re: Magnetic turtles [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] Hi Mike and George, It was good to see you guys at the symposium. Below is the latest from Floriano Papi. It sounds as if their methods are solid and they seem to be aware of the multiple cues problem (as one would expect from people who have worked with homing pigeons). Regards, Ken -- Begin original message --> From: Floriano Papi <papi@discau.unipi.it>
> Date: Fri, 12 Mar 1999 12:46:18 +0100 > Subject: Re: Magnetic turtles > To: KLohmann@email.unc.edu (Ken Lohmann) > Dear Ken, Sorry for the delay in replying to your latest message. Paolo and I > have been busy in organizing and doing new satellite tracking experiments > in South Africa and in preparing a manuscript about our 1998 experiments > with magnetically disturbed Ascension turtles. > Here are the answers to the questions reported in your email of 10 Dec. 1998: > 1. Were you able to confirm in some way that the magnets stayed attached to > the turtles during the migration? > We feel that a dislodgment of the magnets from all the turtles is very > unlikely. All the experimentals left Ascension shortly after magnet > application, and their courses were indistinguishable from those of > controls even in the very > first segments. So, the magnets would need to have detached in a very short > time from all the turtles. The glueing system was quite safe: in other > unpublished experiments, time-depth recorders wer attached to turtles with > the same glue and were recovered still in place after 12 days; the > transmitters of two controls were attached with the same glue and held for > 61 and 78 days. > 2. Were the magnets strong enough to disrupt receptors throughout the body, > or only near the head? > We scattered the permanent magnets over the entire turtlesú body in such a > way as to prevent them picking up of correct information, no matter where > any magnetoreceptor was located. Moreover, we used mobile magnets that > produced variable fields as the turtle swam, thus also preventing > magnetoreception based on induction. The strength of the field produced by > magnets was different in different regions of the body, but always above > 6000 nT, while the tips of the front flippers were exposed to a variable > field ranging from about 1000 to 15000 nT depending on their position

> during swimming. These artificial fields were superimposed over the natural > field varying roughly between 26000 and 29000 nT. We feel confident that > with such an arrangment, navigation based on a magnetic map could have > hardly been possible. > 3. Finally, I am curious as to what conclusions you feel should be drawn > Our conclusion is that, even if adult turtles possess a magnetic map, this > is not not essential to Ascension turtles to navigate. It is thus necessary > to think to altrnative mechanisms that allow such performances. We are > currently performing (or planning) tracking experiments with turtles
> displaced at long distance from the capture site, either in South Africa > (with loggerheads) and at Ascension. The first data we are getting indicate > that their ability to compensate for passive displacements is limited and > that they are not able to home from every location. I will certainly keep > you informed about the outcomes of these (and future) experiments of this > kind. > I am looking forward to hearing from you about your work and your future > programs. > All best wishes, F Floriano > Prof. Floriano Papi > Dipartimento di Etologia, Ecologia, Evoluzione > Universita' di Pisa > Via A. Volta 6 I-56126 Pisa, Italia > Tel.: +39-05048469, 05020447, 05020255 > Fax: +39-05024653 > Email:papi@discau.unipi.it Harbor Branch Oceanographic Institution, Inc. 5600 U.S. 1, North **DATE: 06/01/99** Fort Pierce, Florida 34946 TO: George Balazs FROM: Larry Taylor FACSIMILE: (561) 464-9094 TELEPHONE: 561-465-2400, ext 258 PAGES TRANSMITTED (INCLUDING COVER SHEET): COMMENTS: See sketch below. Refer to E-mail of June 1rst, 8:36am. OPTIONI Connector Attached inside coil. OPTION 3 UPTION ? Connector Attached outside of coil. SHOET WHIP 70 MOUE Connection away from coil bonding

Date: Thu, 27 May 1999 21:52:25 -1000

From: Marc Rice <mrice@hpa.edu>

To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>

Subject: Re: TCD Connectors (fwd)

George,

Read the article about your exploits as a turtle researcher. Nice job

done by Ann. Congratulations.

I went down to visit with Leon T. tonight. He called a couple of times saying that the turtle (his Mable) was basking and had been out ofthe water for 5 days now. The turtle looked fine.. it looked robust and didn't appear to have any injuries although I just look at it from a distance. I'll check again tomorrow and see how it is doing. If he is correct, however, this will be a record as far as I know. We visited with him for quite some time and he asked me to give you his best.

Laura has stopped by for a few days on her way back to micronesia and we down with me. She talked to Mrs. T for a long time and really liked her. She will go back to Pohnpei on Monday morning. We are pleased to be able to visit with her. She seems well and ready to return for some more sponge farming! I don't recall if I mentioned it or not, but Pat and I will be going down there to visit with Laura during the month of July.

Marc

At 03:49 PM 5/27/99 -1000, you wrote: >Larry, I can't locate what you were referring to on the web site you >indicated:

>www.omnetics.com

>However, below is a message from Marc listing a number of sites, two that >specialize miniature uw connectors. Note also Marc's good input, sent to >me last year after we returned from the field.

>If you could just estimate the price, you could then send the bid (which >of course can always be flexed later as needed) and I move ahead at this >end. Many thanks, George

* George H. Balazs, Leader

* Marine Turtle Research Program

* National Marine Fisheries Service

* SWFSC Honolulu Laboratory

* 2570 Dole Street

* Honolulu, Hawaii 96822-2396 USA

* Tel:(808) 983-5733

* Fax:(808) 983-2902

* gbalazs@honlab.nmfs.hawaii.edu

>----- Forwarded message ------->Date: Sun, 20 Sep 1998 22:35:53 -1000

>From: mrice@hpa.edu

>To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>

>Subject: TCD Connectors

>Here is one distributor that has the connector (at least it looks like it)

Date: Mon, 14 Jun 1999 03:31:07 EDT From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Turtle camp

George,

All is well with turtle camp. We have around 150 turtles so far and are averaging around 20 animals up a night. One turtle died basking but we we did not do a necropsy since it was bloated like a giant ballon by the time discovered. I also had a turtle up with old fiberglass from a sat. tag. Scutes looked great where the tag went. I have tag nos., etc. but I broughthe wrong bucket back to tern (data and dirty laundry are still on East). Vanaessa gave me the last two nights off and has told me she will relieve once more during the season. The turtle crew here is entering my data so I should be up to date on data entry when the season ends. Please let Vanessa know if you want to check tags this year. The turtle crew is not too busy the next two weeks and will probably have time to e-mail any data you would like. Overall the turtle season is going pretty well and I enjoy the longer stays on East. Too many film crews on Tern this year! I just got your note on the plane. I am not too sure of my plans, but a lot of what I do will depend on the manta work. Prian informed me a few days are that Two days. depend on the manta work. Brian informed me a few days ago that FWS does not have enough gas to continue to support my study. Mitch has offered to supply gas or take me out, so my plans after camp will probably depend more on how that situation works out. Thank you for the note though, it is good to have your blessings. Aloha, Tim.

> n: Ursula Keuper-Bennett <howzit@turtles.org> "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Once uponna time I finally got to tell YOU a story. gbalazs@honlab.nmfs.hawaii.edu 30 May 1999 08:56:19 -0400

Forwarded message

Subject: Once uponna time...

From:

<http://www.turtles.org/ffs/ffsss/ffsss00.htm>

Thanks for taking me on this journey, George. Thanks for the especially images you've swirled around inside my head --and friends I've made as a result. stories and the For the new FFS

Note, when you get to your East Island "pan" shot, you'll need bottom of the screen and SCROLL right to see the entire shore Beautiful shots you took. do by. to go to the of East

I really couldn't think of an appropriate end so right now we just aim people for the FFS page. But there has to be something... but it has to be perfect and yesterday, perfect just didn't come knocking.

Malama na honu 0

Ursula Keuper-Bennett

--Loreena McKennitt

ANNIVERSARY OF THE FFS TAGGING PROGRAM of secrets the book CELEBRATING THE

Marine Turtle Research Program National Marine Fisheries Service Honolulu, Hawaii 96822-2396 USA SWFSC Honolulu Laboratory 2570 Dole Street George H. Balazs, Leader Tel: (808) 983-5733 Fax: (808) 983-2902

mailto: howzit@turtles.org http://www.turtles.org "Take me with you on this journey Where the boundaries of time are now tossed"

Date: Sun, 06 Jun 1999 09:04:25 -0400 From: Ursula Keuper-Bennett <howzit@turtles.org>

To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>

Subject: Trax update

The FFS pages have been removed from our front door and added permanently to the Table of Contents.

Next, to mark the end of the 25th Anniversary this week, we prepared a five-panel comic just like we did a year ago to celebrate the week of June 1st. A cliff hanger.

We graced it with the FFS logo.

Also different, we added commentary to this week's comic to explain why we're not finished the LOST SHOALS series. Goes on to say there really IS an N36 and an East Island and Sooty Terns and dedicated researchers there.

And of course we thanked you for the ideas you've given us for this comic strip.

The toon is at: http://www.turtles.org/toon.htm

<http://www.turtles.org/shoals.htm> Commentary:

About the commentary, I love the way the FFS pics and my drawings match so

FFS 25th now officially over. Even my SIGs won't have the "CELEBRATING THE 25TH ANNIVERSARY OF THE FFS TAGGING PROGRAM" on them any more.

P.S. If you ever feel so inclined though, I'd still appreciate any stories you may wish to share because I'm as interested as I've ever been. More so, actually.

0 0 Turtle Trax Ursula Keuper-Bennett mailto: howzit@turtles.org

http://www.turtles.org

"To everything.... TERN TERN TERN There is a season.. TERN TERN TERN"

/_| V | \\
malama na honu

--Adapted from The Byrds

Date: Sat, 19 Jun 1999 14:09:14 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Turtle Aloha George, Tnx for the wine! This past eve we saw a turt. w. "18" on her 3rd lat. some (on both sides). Tags were N-21 LFL and N-20 RFL. Who is she? Is she Our pit tag reader died. I guess seal was broken & when it fell out of vest and got wet from a wave; water got inside. Tim says extra you sen him doesn't read pit tags in the bag. We will send defunct reader back the July 7 flight w/ a more detailed explanation.
All else going well. My sub for Tim went well. Guess I am sorta doing turtle camp! Vanessa (& Julie) Date: Fri, 25 Jun 1999 21:17:38 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Etc. Hi George, Turtle 18 ('from' Midway) nested on Tern Island on 18 June We didn't 'do' anything to her because those mototools looked recent (i.e., no pit tag - we didn't have a reader). As to the not-working-too-well reader... The Model is MPR by Destron Fearing; serial number 1090-2061. One of the pricey ones. I had always kept the thing in a ziploc. Well, with one thing and another (excluding all names except my own) the reader was taken out of the ziploc to use and not put back in ziploc or not sealed in ziploc when put in vest. I was chasing a turtle in a failed attempt to pit tag (&failed attempt to zip 'cause zipper jamed) and the pit tag reader fell out of vest sans bag and was washed over by a wave. I brought it back and realized the inside was wet. We (me making final take apart decision) decided to take it apart to get it dry and discovered that the seal had been previously broken. Don't know by whom. is dry but the LED is largely unreadable. Tim has 2 on East; we have the broken one on Tern. Tim thought that the extra pit tag reader didn't work because it didn't read tags that were still in the bag. However, aft. talking to Melissa (they use that brand) he found out that they don't read tags in bag, but read tags in flesh. He is supposed to send the reader over here today. As to the turtle with the previous pit tag number. We just figured out that someone moto-tooled the turtle on the wrong scute. It started out as 86. Once again, I came along while the turtle was excavating a body pit - saw no moto-tool and then moto-tooled her on the correct scute. I think she may have 2 pit tags inserted into RHF - not sure. When Tim scanned the turtle only the LHF flipper showed a tag. But, I pit tagged her on the RHF on a later date. Completed 5 study turtles! Got them after their 3rd nest. Vanessa (& Julie)

Date: Sat, 19 Jun 1999 14:12:19 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: from Brian George. There is a matter I need to inform you about. Due to all the projects we have supported this year with boats and fuel, we are currently in very short supply of unleaded gas. David had asked me to limit boat use to basic refuge needs if we do not have extra gas. We do not have extra gas and this has meant that I had to tell Tim that we can not support his manta ray work by supplying him gas. This upset Tim and he told me that he would guit

working and leave, so that he would be able to do manta work. He said that the manta work is his primary reason for being here. I have since worked out a solution with Mitch, who has extra gas on hand.
Mitch is supplying Tim with gas for use of our boats. He has also offered to have Tim come on trips with them when they travel in the direction Tim

I am unsure of what has been promised to Tim, as Chuck did not specify this with me, or is Tim's permit specific. The number of trips Tim told me that were neccessary for success of his work would necessitate at least 3 drums of fuel. With the current arrangement, I was hoping that you and David might work out the details of Mitch being compensated for fuel he has donated. Mitch or I can let you know what that amounts to.

Thanks, Brian

Date: Tue, 22 Jun 1999 04:21:53 EDT

conducts his work.

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: boat gas

Hello George,

Sorry I have bothered you with this, but yes the only issue has been the supply of gas. FWS gas on Tern is down to three 55 gal drums, due to all the special projects we have supported (flmcrews, contaminents, etc.). The Cromwell will be here in two days and again in July and August. FWS can not get a delivery of gas from the Cromwell until the August cruize, and that is still not certain. NMFS (Mitch) has all space on the Cromwell for gas being brought out. Because Mitch has an abundant supply, he has been very generous in supporting people/projects that I can't. Currently, this is Tim and Nat Geo. Tim told me that he needed 15 trips of manta work (this was after he had already made 2-3 trips). It takes 6 gal of gas to go to East and back. Tim's work is beyond East, near the Gins. Some of these trips can start from East (change-over days) and many would be based from Tern. For easy figuring, 15 trips X 6 gal = 180 gal. I told you 3 drums, 150 gal. I think this is an under estimation for 15 trips, especially since we have few change-overs this year. I don't know what Tim was promised by Chuck, but this magnitude of work seems excessive for us to support, and further we simply don't have any gas to give at this point. We have worked out a solution to support Tim by having him burn NMFS gas and also by going out with Mitch on occassion. Today, I brought Vanessa out to East, let Tim have the boat for two hours, and brought Tim back to Tern for a break. Tomorrow I will bring him back and he will have another opportunity for manta work. The only remaining issues, at this point, are whether Tim's needs are satisfied with what he has to work with, and who will compensate Mitch for the gas he is providing. Should FWS later give fuel back to Mitch, Tim be responsible, or NMFS absorb the cost. This is not for me to decide. I was hoping you could work this out with David Johnson. I have discussed all of this with David, but have not yet told him that I have informed you and asked that you talk to him. Sorrry again for the trouble, but I hope to get this cleared up. I will be leaving for 2 months on 7 July. Aloha Brian

te: Mon, 28 Jun 1999 17:29:06 EDT om: Hinwr@aol.com gbalazs@honlab.nmfs.hawaii.edu bject: Re: To Vanessa- It was unfair...

morge,

Il letters are from Julie and I! I just type faster! Tim has only had a tal of three days off from East Island, so he has been unable to write ten. He is planning on breaking camp from East on July 2.

will send the defunct pit tag reader on the July 7 flight. We also will sed more pit tags. We have gotten into Tim's stash. We are pit tagging in the hind flippers. Tim sent the mini-reader to us and we have been using I think it works well.

have collected some more biopsy samples on some tumored turtles. There as been one (that I know of w/o looking through Tim's data sheets) that has sted over on East. She hasn't returned to Tern since we collected blood from her. A few other turtles have never returned.

H turtles have been sampled in total: 13 Males (9 non-tumored & 4 tumored) and 41 females (28 non-tumored & 13 tumored). 7 of the tumored turtles had sopsys taken.

all is well, Vanessa & most definitely Julie

Date: Mon, 28 Jun 1999 07:43:25 -1000 (HST)
From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
To: GeorgeH Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Dawning of the Age of Aquarius, or, A Sign of the New Millenium!

That's what ran through my mind today. It takes a lot to really get me worked up on turtles.. realize I've been exposed to quite a bit over 29 years. Well, all this past week we have been getting reports of bunches of turtles, some Very Big, in close on the North Shore. First concern was sickness, strandings. But, no way. Today my son Paul (13) and I went "exploring" 9 hours worth. North Shore. Multiple stops, to look and take pictures. Something wonderful and beautiful is happening. Dawning of a New Age. and the turtles. gentle vegetarians. are signaling it? That's crazy of course. But I couldn't help think it when watching 8 or more 300 pounders, perfectly clean and healthy looking, relaxing and grazing in 2-3ft of water next to shore at Chuns Reef, Laniakea, and east of Haleiwa. And, kids and adults standing in the water with them. My kid joined also. Watching them, petting them, thrilled out of their mind. And, feeding them. Yes, that will make you ballistic. But. Wait. The turtles were there to feed on Ulva and Enteromorpha. It grows in shallow. Turtles were there to eat it. Some of the best was out of the reach of their Big Bodies. So people were picking bunches and handing it to the turtles which gently munched it from them.

I don't know what to make of it. But I loved it. Some lifeguards I spoke to at Waimea Bay said "Oh sure, this has been happening, whenever the surf is down, and sand shifts to expose certain rocks that the algae grows on!" I think I need to go the the North Shore more often. Instead of making trips half way around the world! And Ursula and Peter, you ought to get over to Oahu sometime. Don't need to bring your scuba. Geo.

Date: Fri, 9 Jul 1999 20:31:44 EDT

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Turtle camp

George, I am back on Tern after 31 days of turtle camp. We started June 1st and broke down on July 2nd. I believe we had 198 turtles this year but will George, 1 am back on Tern after 31 days of turtle camp. We started June 1st and broke down on July 2nd. I believe we had 198 turtles this year but will need to finish entering/proofing the data before I can give a definate number. It was a good year and everything seemed to work out. Vanessa gave me two breaks so I could eat ice cream and stock up on beans again. We averaged 20-30 turtles a night once the season got going. I can give you some better numbers once I get equiptment and data cleaned up. Not sure if you are aware but FWS has withdrawn all support of my manta research. I learned this two days before camp ended. Mitch is letting me use their boat and fule whenever they are not using it or when we can piggy-back projects. Right now is pefect weather and tides for mantas so I have been going out with them every day since camp ended. We have been having 10-12 mantas/day and I have been able to get 3-6 biopsies/day. I am afraid I am ignoring the turtle data because of the time I am spending with the mantas. I would like to know if you need the data to be complete by the 7th or if I can finish it at a more convienient time. If you need it then I necessary. How about a phone conversation? We have access to the sat. phone for free from 9-10 weekdays for buisness. Are there any days this week after tuesday Aloha, Tim

Date: Mon, 12 Jul 1999 19:35:16 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu

Subject: turtle tracks

Aloha George-Here are the measurements that you wanted of the 5 turtle tracks: 102cm, 100cm, 112cm, 92cm, 103cm. form, 112cm, 92cm, 103cm.

Everything is moving right along out here- we have completed 14 turtles so far. Vanessa is only waiting for 3 more tumored D2O turtles to return for thier 3ard nest and I am happy with my sample size of 14 males (9 nontumored & 5 tumored). It is nice to have Tim as part of the turtle team, although I think that he would rather be on East. We all sat down and enjoyed a glass of red wine (thanks to you) and cheered to his arrival of red wine (thanks to you) and cheered to his arrival.

Much mahalo -Julie and Vanessa

Subject: Turtle Thoughts

0500 (EST) _email.unc.edu> _.edu

Roduce

27

Hi George,

At last I have a chance to sit down and write about turtles. I apologize again for the delay. We've had a rough couple of weeks here, so I hope that we've gotten all of our illnesses and misadventures for this year out of the way early.

I've had a chance now to read Mike's report and ponder the data, so let me first give you my interpretation of the science, which perhaps differs slightly from Mike's. It seems to me that there are four basic hypotheses that might plausibly account for our results. I'll summarize each below.

MALFUNCTION HYPOTHESIS: The possibility here is that something went wrong (e.g., the insulation leaked) in some or all of the trials, so that the field did not always change in the way that we intended. Some variation in the results between different turtles might be explained by how well each coil functioned (e.g., the first coil worked; the last two didn't). Here we are hypothesizing that the turtles will be affected IF the field is changed.

NO MAGNETIC CUES HYPOTHESIS: Here we postulate that the coil worked as planned and that the turtles did not change course (the final two, anyway) because turtles do NOT use magnetic cues in navigation. For this to be true, we would also have to hypothesize that our first turtle was a fluke and that its strange path was just an unfortunate coincidence.

MISSED RECEPTORS HYPOTHESIS: We assume that the coil worked as intended, but the field had little effect because the magnetic receptors are not in the head (or not near to where the coil was attached). In other words, the field would have had an effect if it had been applied to the location where the magnetoreceptors are.

MULTIPLE CUES HYPOTHESIS: In this case we hypothesize that adult turtles, like migratory birds, rely on several different cues to migrate and that the earth's magnetic field is only one of them. Thus, turtles may use the earth's field if it is available, but if it isn't, then they simply switch over to a different cue. A useful analogy is that you usually use visual cues to guide yourself around your house, but if the power goes off at night and you are left in the dark, you can still navigate around using memory and a sense of touch (things you don't use under ordinary circumstances).

With these four different possibilities in mind, the question becomes: how can we distinguish between them experimentally? After pondering this, I think I'm inclined to agree that it may not be possible with our PRESENT approach; some modification is likely to be needed to progress beyond where we are now and allow us to falsify one or more of the various hypotheses.

For example, if we could modify the electronics to prove (via a signal to the satellite) that the coil came on when it was supposed to, then we could at least rule out the first hypothesis. That would be a good step forward. Distinguishing between the other possibilities

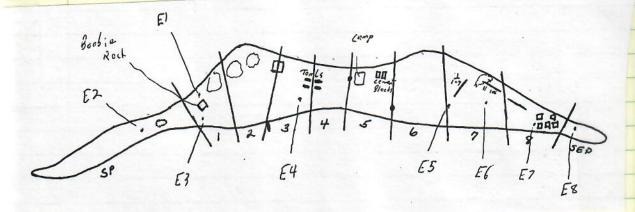
experimentally seems very difficult. In fact, I haven't been able to come up with a way to do it. If you see an approach that I've overlooked, please let me know.

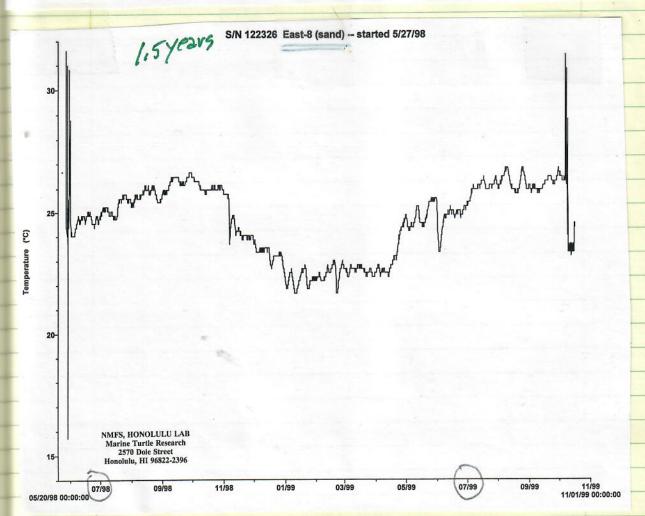
So how should we proceed from here? I don't have the answer, but in the absence of an obvious next step, it may be time for a year or two of brainstorming to see if we can hit on a really clever idea. Turtle navigation is a fascinating mystery, but my guess is that it will keep a few years. I could be wrong, but at this point I don't think anyone is going to crack this with a single, simple experiment, just as bird navigation apparently cannot be explained with a single cue (although people have tried for years). I'm not opposed to doing more trials if you think that the logic I've outlined above is wrong, but my experience has often been that when data are ambiguous, taking a step back and contemplating the approach often leads to major improvements in methodology that can help crack the tough puzzles. To use the sports analogy, I suspect we're in a long ballgame now and we've just finished the first couple of innings.

In any event, those are some thoughts. Let me know what you think. Regardless of what comes next, though, I'd like you to know that I've really enjoyed working with you and Mike on this crazy project!

Date: Mon, 04 Jan 1999 19:15:08 -0500 Date: Mon, 04 Jan 1999 19:13:00 -0000 From: Ursula Keuper-Bennett <howzit@turtles.org> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: Fwd: Re: French Frigate Shoals are Did I mention I have regular email with about six former any served with Chief VonKessel This guy's cool and has been feeding me wonderful photos. served there. of He's sent three pics (four in total) of an FAA DC3 but checking pics of hear this plane's different --I'm certain. Pretty, mind you. nox not N36. Just if Still interested because it is FFS (Tern) history none-theall know there. going back a little further than I'd like. Me course now the question. What happened to N23? I bet Harry me since volunteer knows . . . Let The FFS story. The email Coasties. The FFS comic strip. who year who served FFS. from obsessing too much about FP. ns ø 30th >X-Sender: hainesink@theriver.com of as >X-Sender: nainesinketneriver.com >X-Mailer: QUALCOMM Windows Eudora Light Version 3.0.6 (32) >Date: Mon, 04 Jan 1999 16:37:49 -0700 >To: Ursula Keuper-Bennett <howzit@turtles.org> Some doing a spell the >From: Al Haines <hainesink@theriver.com>
>Subject: Re: French Frigate Shoals for >>>employees who >>>revisit FFS. looking Wishes, reunion >Having grown up in Yellowstone Park I know what a storm is and EN1_LT_EJpg wouldn't >>>mind >>>even >spent >>>Best >30 years avoiding that white stuff on the ground or in the >>>a air. >To cheer you up I am sending a couple of pictures that I found in my >collection of keepsakes. I found reference to N23 in my photo 000 just Henry Kofron. The third know. flew an the for our local transportation. FFS, us Loran you guys'll hold to attend and mind me don't We got us a winter storm put in that guys standing by the wing are the Engineman, the give Year. >>effect here in Toronto so Hawaii is very much on my but to visit as well. Right now the images right now. >>You know if you are really serious about visiting noticed. Jo C-47/DC-3 н It would also New that >>approach the U.S. Fish and Wildlife Service and on the back so A11 Happy planes like >>during either July and August I would love Non an American success story. structure ΙĘ and one >That may explain the paint difference 00 >>Your reunion idea sounds wonderful. >>At 07:53 AM 1/2/99 -0700, you wrote: 05:59 PM 1/2/99 -0500, you wrote: than >>Best wishes to you as well. Peace >>there and listen to your stories. good old bird with FAA pilot and our Picture said it was N23 through that distinctive wing more to hear from you again. do just fine) world so I wonder if there real >rickshaw is the >>in my head will >picture is the On the is the goal is >>I'm serious. plane >>volunteer. >The three particularly >a >shot off t warning in > >Enjoy... >>>link to >(ET1). The stories I land. >myself >second picture coasties >At 05: Oahu >>>That >> (My have >A1 uo

1999 East Island Dataloggers





DAILY TOTALS
NESTING GREEN TURTLES
FRENCH FRIGATE SHOALS, 29 /979

East "Island: mest/Aub./mabe # Turtles Up # New Turtles IDed Date # Nests Invest. Comments 6/1/99 23 23 set up camp in light rain. First night of the 0/1/3 T. L. camp is cold & wit! 6/2 25 T.C. Sins fack! Acantibul night. Good to be feel East & och of Tern! 14 1/2/2 6/3 21 lots of mating going on ansind surse. 7 0/2/3 T.C. most occurring on the Saiking beach.
Shark man botted tiger up today. Mont sent has
up bloody would this evening. 6/4 26 . 12 5/3/3 T.C. 6/5 26 16 5/1/8 Clear night. Windl. Green stubb is greaten my water containers. T.C. Clean right water containers.

That was frenting out. I need to work to ellow stead to your transing shelow!

The Transit and dead today. Very blooked and

the Transit was a read of the transing shelow! 6/6 20 13 0/7/4 T.C. 6/7 23 14 5/2/1 T.C. Hinky. No necrops, for few of cagging.

I low troes in evening & ve
in morning, Reel exposed. 6/8 20 10 1/3/4 9.0. 6/9 13 Even lover of les foday. Fener 40.45. 8 2/1/2 7.6. 6/10 Couldn't get much done on to Hes, They me all next to scalls. One bockfilling 110th is a pu I N-eggs by 2 mome pups "- with but Nie Ni 16 5 2/0/4 9.C. 6/11 14 8 1/0/3 V.P. skept three 0700 walk -7 bad Vanosco like ne bardy any wind; skittish tertles Chiphatch last of algamy. Calculand, 6/12 13 V.P 20/83 6/13 14 4. monk scal P-1 dead on W. Shone. Poss. 59.11 1
Got sick after dinner. I think the shick pos
went bad, we need a new fridge. 0/2/4 T.C. 6/14 21 1 2/2/2 T.C. 6/15 16 Onizzling thought night. 5 1/3/2 T.C. 2 large & long rain squalls during night.
I got souched in one - yuch!
Binds starting to fledgemore not many as
on island this year. Show shark activity.
Went manta hating This afternoon, Pursone
many mans mentas. I think for the roles - 3
slow night on det Gast and Tan. ment see 6/16 23 3 2/2/3 Tic, 28 6/17 3 3/2/4 T.C. 34 6/18 5/8/45 T.C. 6/19 16 3 3/0/1 T.C. sich again. I thin I have been getting too my 6/20 27 2 5/3/7 T.C. No more lettorers! 6/21 U 22 1/5 Timisa tradodyk! Nice evening - 12 mous V-P. 6/22 17 0 3/1/3 T. C. 6/23 21 4 2/1/1 T. C. 6/24 Tiger shock action is getting better.
Tas bad Liss & grad one gone
Shower at baginning of night. We 5 22 2/5/2 T. L. 6/25 18 6 3/1/5 7.0. 6/26 19 4 2/1/2 T.C. 6/27 20 1 3/2/6 7. 6. 6/28 30 3 semi - heavy Thatte night Lott == 1/3/7 T.C. false p.ti 6/21 27 3 2/2/10 7.6 30 29 2/5/11 T.C.

Island: East

Island:	# Turtles Up	# New Turtles IDed	# Nests	Invest.	Comments
Date		2	3/4/4	9.C.	Last night - Great tate camp Ju
11/99	24	^	11-11		the right number of tuttes to
					keep busy but not smamped.
					Level Bin having the long camp
					Eggier than thansbering every day
					breaking up the routine. Only p.
					is none of my data is in the
					compiler!
					1 2
					Need new fridge for next
1000					Got sick twice this year +
					after that has therew and
				-	that was I opened - hasted to
					of land.

Date: Mon, 4 Jun 2001 09:46:09 -0600 (MDT)
From: Terry Spraker <tspraker@lamar.ColoState.EDU>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Alonso Aguirre <aguirre@wpti.org>
Subject: Re: Biopsies of adult greens nesting at FFS.

June 2001

Ideally smaller tumors would be totally removed and fixed. However punch biopsies would be great. On larger tumors take several punch biopsies, also on larger tumors take two from the same hole. That is take several levels of the tumor ie deeper layers. The more you take ie superficial & deep, sides, and center of the tumor the more info we will get. For each tumor it would be helpful for you could draw a picture of the tumor and draw on the tumor where the biopsy was taken.

I have more to tell you about the eyes, but have to go and do some other work now. I will get back to you later.

Terry

On Sun, 3 Jun 2001, George H. Balazs wrote:

> If all goes as planned I'll be up on East Island at FFS from the 6-14
> June. Am fully preparing to take biopsies of tumors for our long quest
> of the regressed tumor issue. I need your advice on what to target for
> and in what way. Obviously working out of a tent on 250lb turtles I
> can't do much surgery. I'm taking 6 mm biopsy punches and also some
> scaples (and of course buffered formalin). Please give me some insight
> as to what's best to do, not to do. Quick turn-around time appreciated.
> Aloha, George

> Alona, George > PS Yes all tissues will be sent to Terry. DAILY TOTALS

NESTING GREEN TURTLES

FRENCH FRIGATE SHOALS, 1989

Y	Poll of					
	Island:	Tern 19				Pg-1 of
	Date	# Turtles Up	# New Turtles IDed	# Nests	Invest.	Comments
	19412			1	Raile	15+ night 7 885, 3 8 9000
	May 14	5	5.	1=7	JR.	98 2 95 Snoozing
	1 ay 15		Ø	IM	VP.	I turt was motord but mysters
	May 16	3		IM	JR	Bot Snoozing
	May 17	5	3	IM	VY	ruce right - rowny scals
	May 18	3		,Q	JR	We started Collecting Blood for Cont
	May 19	6	4	INTEP	TC+VP	
	19ay 10	8	5	IN,IM	TC	East keach trutheroder!
	Man 21	9	4	0	W	training Breadon
	May 22	8	4	INIP	.13	training & moin-
	May 22 14 20	8	4	ZN	VP, B	
	May 24	10	5	2N	TCB, AZ	eggs collected from 2 nest, Acron to
	May 25	9	4	BIP	A.B.	blood quilibration on #81
	Manze	(Ø	6	Ø	B	"Free"
-	May 27	8		29	NAS, B	training Nick
	May 28	9	4.	1P, 1N,2M	Nº, B, TC	blood on #5 89,91,92
- 100	May 29.	6.		3N,17	A	
1	Mar 20	. 3	2	IP	W	ferfile night, baby boom walks this wind, rain rough seas; to range
-	May 31	7	4	Ø	JR	rain, still atomy
8	June 1	10	2	Ø	J Nº	
	June 2	9		Ø	A, N^2	
100	June 3	5		IM	Jr. A	-
-	June 4	. 11 **	Z	ON, 19,2M	#NºVP	de la loggers deployed
	June 5	加 子	2	en, op, om	NVP	V's Drain went by, bye
_	Jone 6	13	5	2N,293M	JR.A	much to do
	June 7		5	3N, OP, SM	Nº VP	£0.0.10=2
	Juno 8	8	3	218 1P. IM	JR. A	2 More turtles Processed
	due 9	17	4	30,00,44	Nº VP	
	June 10	13		ON, IP,ZM		
		The state of the s				

DAILY TOTALS NESTING GREEN TURTLES FRENCH FRIGATE SHOALS, 1989 -

pg 2 of -

Island: Tern 1999						
Date	# Turtles Up	of Notes	# Nests	Invest.	Comments	
Junell	12	3	2N,2P		2 blood tutles	
June 12	3		29	A,JR, N2		
Jue 13	10		ZN, OP, M	VPNZ	2N, 0P, 1M	
June 14	5	. Ø		dR.A		
Jue 15	8	2.	2N, 6P,3M	NO No	a cruple squalls; nice night.	
June 16	11		IN, 10,2M			
June 17	15	5	3N, 1P, 2M			
June 18	15	3	3N,1P,2M	JR,A	Busy, Busy	
Jue 19	13	2	ZN, IP, BM	NE NS	monlight in beginning walks. Nice!	
Jone 20	16		30,18,31			
June 21	13	0		Nº, JR, T		
June 22	13	0	4N, 1P, Z		eggs a poppin	
- June 23	10	0	1	Nº P.		
- June 24		2	3n,3p,2m			
une 25		3	3N, 4m	N2 VP		
June 26		2.		A.Jr	100000000000000000000000000000000000000	
June 27			ZN, OP, 3 M	VP, NZ		
June 28	12		1N,20,80	Jr. A	Full moon	
June 29	16		3N, 1P,3M	Nº Vas		
June 30				1 Jr, A		
Jul 1	17	1		1 VP, N2		
July 2	19.	1	5N, OP, 61	M Jr, A		
<u> 20,3</u>	12		3N,000, IM	VP, N2		
July 4	14	2	2N, 2P, 2.	M Jr, A		
July S	22	2	211,29,31	VP, N2		
- July la	20	3		M JR A		
Tuey 3		0		M VP. T		
Tuly 8			70,04	M JR, A		
- July C	1 8		(N, 00)	IL, T MO		
July 10	1 (2		174)			

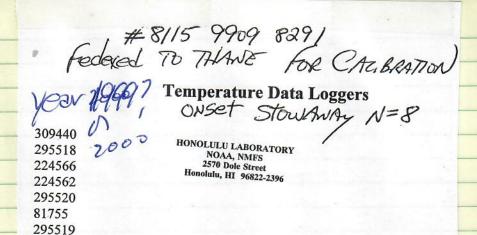
DAILY TOTALS
NESTING GREEN TURTLES
FRENCH FRIGATE SHOALS, 1989

1999 Page 3 dlern 1999 Island: # New Turtles IDed Date # Turtles Up # Nests Invest. Comments 12 Jul On IPOM JE A 12 16/20 SUSP, SH TC, UP. 18 1300 EN, IP, GM TC, VP 20 IN, IP, 3M JR, A 26 3N, IP, GH TC, VP 20 Ø 16 17 Jul 4×2POM UP TC. 15 2N,1P,04,1R, A 24 2 EN, ZP, 3M TC, VP Z Blup 3NOP 3M TC, VP 8Rup 22101 3N.3P. IM 824 IN, OPSM 24 July 82mp In, 7P.Im JR. 82 finally netal! 25 Jul 12 10 ON. IP. M JR. A 14 Ø 13 July IN, 1P, 2M To 18 Ø 10, 19, 5M JR. A 30 Jul N, 1P, 3M VP. A 31 July 14 ON, OP 2M JE, VP Ang 19 3N, 2 POM JR 1/P Ava 19. 7 NIBP. 3M VP. A 3 Arig 19 EN,4P, IM JR, VP 4 Aug 12 super low tolo 8 ne IN, OR, JR, VP 13 0 tug ON, OP 3N IT A Low tide. Aug ON, OP,2M Low tido BN/2P, IM JRIVP

Island:	Ten 1999	*			t rage 1 85
Date	# Turtles Up	# New Turtles IDed	# Nests Inv	rest.	Comments
10 Aug	13		In OP IM JR	A	
11 Aug	18	i	IN, 3P, 2M VP	A	make sure 77 isn't back up on 12th
12 Aug	12	0	2N, IP, IM JR	VP_	
13 Aug	9		On IP, IM TE	A. A	
14 Ava	9	Ø.	BU, OP, M VF	2, A	
15 Aug	9	1	ON, OP, IM IR.		
16 Aug		.0	4N, OP, OM JR		
17 Aug	11 10	1	4n, 19,3m VI	, A.	,
18 Aug	3	0		JR	
19 Aug	11	.	177	1P.	make sure ASD isn't back up tomorrow
20 Ava	6	Ø	OW, 2P2M .	R	
21 Ava	3	· Ø	1/4/1/	VP_	
22 And		1	2N, DP, 3M	JR	
23 Aug	6	Ø	1100	VP_	Charlet sie of 179 comes back tomorro
24 Ava	6	Ø	ON, OP. 2M	JR	Chack to see if 179 comes back formorro
25 Aug	6	Ø		VP	
26 Au	4	Ø	100	JR (C	
27 Aug		Ø	12 10 10	VP	
28 Avg		Ø	1	JR	
29 Ava		Ø.	2N, OP, 2M	VP	
30 Ave		Ø	1011	JR 6	
31 Aug		Ø	2N, OP,M	VP	
1 Sept	4	N N	12/11/	JR	
2 Sept	2	Ø	ON, OPIM	VP	
350	- 1	Ø	7	JR VP	
150t	- 3	Ø	ØN, IP, OM		
150pt 550pt	r 0 + 3	Q	1	JR	
6 Sep	+ 3	0	ON OF IM	NY	
6 Sep 7 Sep 8 Sep	+ 2	Ø	180,00,1M 120,00,1M	JA	
- 8 5ep	+11	Ø	I BUJAP, WALL	V /-	on an in ours you would be ari got rock

NESTING GREEN TURTLES
FRENCH FRIGATE SHOALS, 1989

Date	# Turtles Up	Turtles IDed	# Nests	Invest.	Page 5 o
9.5ept		Ø	ØN, IP, ØM	1	Comments
0 Sept	Ø	Ø	- PN, 1P, BM	VP ·	
Sept.	2	Ø	N. OP.OM	(4)	· · · · · · · · · · · · · · · · · · ·
2 Sept		·Ø	ON OP AM		
3 Sept	2.	Ø .	ON, OP ON		7
1 Sept	1	Ø	ev@P.on	/	
55 spt	Ø	Ø	DN DP. DM	JR	
Sept	2	Ø	ON, IP, OU	VP.	
75ept	2	Ø	BU IP, OM	JR	* .
3 Sept	Ø	Ø		VP	
Sept	Ø	Ø		JR	
Sept	2	Ø	DN, OP, OM	VP ·	
Sept	2	-1	on, of an		*
Sept Sopt			en, op, em		
Sept			an ab an	/	
Sept	1,	~	ON, 17, OU	IP	
941		4	ØN, ØP,am	JR	



21 ODSET STOWAWRYS Temperature Data Loggers
Federal # 8115 9909 8280
Thane Par Calibration and Vapid return.

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243576

243581

141201 122326

243571 243577

141202 141199

243583 243575 243578

243573

71054

141200

243572 243570

1409

GEORGE H. BALAZS ZOOLOGIST AND LEADER MARINE TURTLE RESEARCH and

Regional Vice Chairman for the Pacific Islands
IUCN Marine Turtle Specialist Group

HONOLULU LABORATORY SOUTHWEST FISHERIES SCIENCE CENTER NATIONAL MARINE FISHERIES SERVICE 2570 DOLE STREET HONOLULU, HAWAII 96822-2396 Email: gbalazs@honlab.nmfs.hawaii.edu

(808) 983-5733 Fax: (808) 983-2902 Report turtle strandings: (808) 983-5730

Date: Tue, 29 May 2001 15:35:25 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Aloha George

May 200 [Thanks for the updated information on "My Loggerhead". I'm happy it was capture alive. I'm all for Aaron taking on the majority of the days on East Island. This is the busy season out here and there's much work for Matt here on Tern.

On 15 May there were 92 turtles basking on East Island. Yesterday morning on Tern Island, I counted approximately 17 turtles, which hauled up onto South Beach the prior morning. East Beach on Tern has been a hotspot for turtles basking this year. Earlier in the month, over 40 were counted in the morning and at twilight. While snorkeling at Shark on the 19th, at least 4 adults were seen in the water in close proximity to us. Yesterday, I looked over the seawall on the north side and spotted two juveniles with fore flipper tags. I should have jumped in, as I'm sure you would of, and got resighting information. Please, while you are here, show me some of your tricks of he trade. trade.

Take care, Aloha, Tony

Date: Sun, 4 Jul 1999 03:07:31 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: from Brian

Hi George,

Well, I think you will be pleased with my replacement while I'm gone. It will be Anthony. He needed some money and I needed a vacation, so it worked out great. My praise of the Tern workers, it seems, brought forth something I was not aware of. Today, Vanessa spoke with me about some problems with Nick. Tim had mentioned similar concerns to me earlier. I'll let the two of them fill had mentioned similar concerns to me earlier. I'll let the two of them fill you in, later. I just want to say that I understand Vanessa's complaints, but think she may be wound a little too tight about it. We broke East camp yesterday and Tim is now on Tern. He said he is staying to work for Lee Ann, but is concerned about not getting support from FWS for his manta work. He has had some good days getting samples. Today, with Mitch, he got three more. Great conditions. Maybe we will get a chance to talk when I come back from training and vacation. I'll be in Honolulu from 30 Aug to 7 Sept. Aloha, Brian

Date: Wed, 21 Jul 1999 16:35:27 EDT

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: For Vanessa, Julie, Tim

Thanks for the info about the pit tag reader! Hopefully we will not have to follow those 'emergeny' instructions that you have given us.

Many of the "B" samples are here in a regular freezer. We will take them out Many of the "B" samples are nere in a regular freezer. We will take them out of the freezer and put them in the Dewer and then send the Dewer off island (will be very judicious about telling all and sundry when, where, & how we will send those samples off). Since our phone call we have been putting all bank samples in the Dewer.

We received the pit tags! Thankyou very much.

Date: Tue, 27 Jul 1999.16:01:25 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Re: Data problems

George, Finally figured out the problem - bad disk. Had to re-enter quite a bit of data but it seems OK now. I have made 5 backups on 3 computers so I hope I am covered this time. I am finishing up proofing now so will know soon if it was something else.

Had some good talks with Bud. I took him out on a turtle walk so he could some good tarks with Bud. I took him out on a turtle wark so he could see what we do on Tern. I think his main concern is having people that are well trained to work around seals. We talked about next year having Mitch talk to the turtle people about working around seals and also possibly getting the turtle people put on the monk seal permit and having us record human/seal interactions and turtle/seal interactions. He also mentioned using night vision goggles but after talking with Vanessa (who has used them)

I am not sure if they would work.

LeeAnne has arranged for Julie and Vanessa to come off Aug. 17. They are Many of the turtles are only on their third nest right now. Overall things are working very smoothly with the turtle team. Very good group of people. I did find the missing notebook with the datalogger info while I was cleaning to the control of up camp. Also note one turtle died on 6/7 while basking. Tags 483-C LHF,

I will be bringing back the 6 old mototools and 3 new. I am leaving 2 rest has hatched so far so I am leaving most of the dataloggers here. Also bringing back the rest of the tumor biopsies. Aloha,

Date: Tue, 27 Jul 1999 16:02:16 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: Message for Tim Clark

George, I am being picked up by the Cromwell on July 29 arriving Honolulu Aug. 2. My flight for Fiji leaves the morning of Aug. 6. Since it looks like we won't have time for a meeting I will write something up about notes/concerns/ect. about the season. I will be coming back through Honolulu on Aug. 28 and could delay my departure to the mainland a day if you are going to be in town. A friend got me a great ticket this year that lets me change my return date for free so I might as well take advantage of it!

Date: Tue, 27 Jul 1999 15:00:08 -1000 From: Peter Bennett https://doi.org/ To: gbalazs@honlab.nmfs.hawaii.edu Subject: Fwd: Re: really remote webcam

Aloha George,

The reply below is from a friend of mine who specializes in setting up remote internet access. I assume that you want periodic stills (I don't see why streaming video would be needed) and that we could make use of the internet connection at Tern Island. As you can see, he thinks it's feasible if those assumptions are correct.

If they are, I need to know more about the Tern Island connection. Any other requirements? Remote control, for example? Will you be inviting the monk seal people to participate?

:there are two serious issues to be worked out, that of power, and that of :communications.

: the first thing that comes to mind is solar charged batteries. this technology that come a long way, so i'd think it is doable.

: : the problem of communications is tougher to solve.

: :assuming we go with low ball technology, and only collect periodic stills :from the camera, the power required for transmission could be gauged based :on that frequency.

:
if live video is needed, we are talking about a whole
different set of
requirements, and unless there are some serious bucks
involved, i suspect it

8/23/99

SWFSC Honolulu Laboratory 2570 Dole Street Honolulu, Hawaii 96822-2396 USA

gbalazs@honlab.nmfs.hawaii.edu

Tel:(808) 983-5733 Fax(808) 983-2902

George H. Balazs, Leader Marine Turtle Research Program National Marine Fisheries Service

Date: Thu, 5 Aug 1999 08:08:08 -0400

From: Larry Taylor <Taylor@HBOI.edu>
To: "'George H. Balazs'" <gbalazs@honlab.nmfs.hawaii.edu>
Cc: Karen Drake <KDrake@HBOI.edu>

Subject: TCD Status - Potted Coil Image

[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]

Here is an image of a potted coil for you to review. The marked scale is centimeters. The cable will be terminated with the HBOI supplied connector. The connector also serves as the break-away. In the field, you will simply plug-in the cable from the Timer and then fold-over a piece of mastic tape that we provide. The mastic is self-sealing and is formed over the connection with your fingers. We have conducted pressure (sealing) tests and break-away tests with this arrangement. The assembly was pressurized to 200 p.s.i. for 24 hours, successfully leak tested and then pulled apart. The assembly completely separated at 8 lbs.

The coil is dipped (twice) in 2-part polyurethene. The coil is formable and will stay in place when formed. This should accommodate the need to bend the front "down" to match the profile of the head.

I believe that you will be pleased.

<<TCD_Coil.jpg>> Larry Taylor Project Leader Harbor Branch Oceanographic Institution, Inc. 5600 U.S. 1 North Fort Pierce, Fl 34946 561.465.2400 ext. 258 fax: 561-464-9094 email: <mailto:taylor@hboi.edu> taylor@hboi.edu

[Part 2, Image/JPEG 236KB] . [Unable to print this part]

George, Here are your TCDs. They have all been successfully tested with a +/- 5% timing

accuracy. The plug-in connector is polarized. To make the connection water-tight, peel-off the white backing from a section of the mastic tape, carefully fold-over and squeeze with your fingers (no tools and no goopy stuft). The taped-connection serves as the break-way. We tested this set-up after a 200 psi leak test and measured a disconnect force of 8 lbs. Read carefully the Control control below to review the new onfolf procedures. If you are ever able to recover one of these units, please save it and call us. Good luck with your field deployment!!

Larry Taylor and George LaBarca

Secifications:

Number of Cycles: 1

Cycle Definition: Selectable On Delay (5 or 10 days), Coil On time of 5 days, Coil Off time of 12 Days, 2nd Coil On Time of 12 Days, End.

Microcontroller: PIC16LF84 or equivalent, crystal control 32kHz, power = 100uA max.

Driver

Constant current control during on time = 15mA

On/Off controlled by Microcontroller Control

On/Off:
 External magnet with internal reed switch (normally closed). When magnet is removed, power is applied. After a 5 second delay, the microcontroller will pulse an internal light enriting diode a number of times to indicate proper operation. Pulsing 3x(1 second on time) indicates that the unit has been successfully activated for the short delay of 5 days. If the unit flashes 5 times, the long delay of 10 days has been selected. After the confirmation flashes, the coil current before deployment. The seconds. This feature is available to verify field strength and polarity reapplied to halt program execution and then removed again to restart the entire process.
 Initial Delay Time:

Initial Delay Time:
 The selected delays are 5 days or 10 days before first on cycle. The "days" of delay are not based on an accurate real time clock, but are instead based on accumulated counts of microcontroller clock cycles, le: a "day" may not be 24 hrs to the nearest second. A coarse accuracy seemed adequate for your mission needs and the desire to conserve power.

The black mark on the side is where you place the auxiliary magnets to select the long or short delay. The long delay will be selected if the magnet is not in place when the unit is turned on. Once the unit is on, the auxiliary magnet can be put away and not deployed with the unit.

George Balazs Page 2 5 May 1999

> Therefore, if you want an approximate 10 day delay from power-pack turn on to start of first "coil" activation, just leave the auxiliary magnet in your pocket.

Driver Specifications:

10.2 cm x 7.6 cm x 4 cm Size:

Material: **PVC**

Weight:

In Air: 320 grams In Water: 46 grams

- Power Control: Internal Reed Switch operated by External Magnet (Remove to Activate).
- Pressure Integrity: Optical Port and all Seals Tested to 200 p.s.i.
- Power Source: 3V Lithium "D" Cell. Manufacturer: Tadiran, Model TL-2300/TBP.
- TCD Quiescent Current while timing Delays (Coil off): < 250uA
- Coil Current: 15mA (+/-0.2mA)

Coil Specifications:

Size: Nominal 6.4 cm x 9.6 cm

- Sealing Material: 3X Dip : 3M #2130 Polyurethane. Durometer approx. 85 Shore D.
- Wire: Belden #8055, 30 AWG, Heavy Polythermalize Insulation.

Number of Turns: 120

Connector: Gold Pins, Polarized (1 Male / 1 Female). Water proof in field via Mastic Tape.(supplied). Connector Placed 10cm from coil

Cable Specification:

- 26 AWG Twisted Pair, 7 x 34 Stranding, Black PVC Insulation 0.4 mm Thick
- Total Length From Exit of Driver to Coil Connector: 75 cm

Date: Sun, 5 Dec 1999 22:30:55 EST From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Cc: dave_n_johnson@fws, Gov@aol.com, beth_flint@rl.fws.gov

Subject: from Tern

Hello George,

It has been a while since we have been in contact. I hope all is well. I have some bad news to pass along. A dead adult female green turtle was found today along the north seawall near the old Coast Guard dump. The pit tag number for the left hind flipper was 4136324033. Apparently the turtle had not been seen during daily seawall checks for quite some time. The body was decomposed and the carapace was badly weathered with many scales fallen off. The location of the turtle was obscured by a short segment of adjoining seawall and debris. I would guess that the turtle has been dead for at least a couple months, probably since active nesting. Part of the moto-tool # was still present, ?93.

Date: Tue, 21 Dec 1999 10:58:26 EST

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: dead turtle on Tern

Hi George,

I asked Aaron Dietrich to gather all that you wanted from the dead turtle. He informed me that high surf had taken much of it away. He collected the humeri, but was unable to locate the scute with partial mototool, or the hind flipper with the pit tag. Pictures were also not taken since the carcass was no longer intact. Aaron is departing Tern today and will bring you the humeri.

Date: Thu, 02 Dec 1999 11:00:46 -0600 From: Osha Gray Davidson <osha@pobox.com> To: gbalazs@honlab.nmfs.hawaii.edu Subject: Kridler photo

Geo--I can't remember if I already sent you the photo Gene Kridler mailed me. I've attached it to this E-mail just in case. He wrote on the back that it was taken in September 1966 on Southeast Island, Pearl & Hermes Reef. That's three years earlier than his Spring Trip mention of FP. Don't know how important this is to you, but thought you'd want it. Best, Osha

[Part 2, Image/JPEG 163KB] [Unable to print this part]

[Part 3: "Attached Text"]

Osha Gray Davidson Adjunct Associate Professor International Programs, University of Iowa

14 S. Governor St. Iowa City, IA 52240 USA Phone: 319-338-4778 www.oshadavidson.com



Date: Tue, 4 Jan 2000 15:13:20 EST From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: from Brian, 1

George,

Thanks much for your generous remarks about my time at Tern. It's been a pleasure working with you and I'll be looking forward to seeing you again. Tony worked for NMFS during 1994-95 and his supervisor was Tom Shearer.

Thanks also for making it clear that we are not to front flipper pit-tag juvenile turtles. I'm glad that what I did was correct. I think my questions bring to light our need for a well written SOP on the handling and data collection of juveniles. The infrequency of doing this work in the absence of well trained turtle crew makes relying on memory alone insufficient. My apologies. What do you think about having Tony spend a night or two on East with a tech next turtle season, so he will be well informed and have some good expeience? He has some experience from 1994-95. (cont'd)

Date: Wed, 29 Dec 1999 07:19:14 -0500 From: Ursula Keuper-Bennett <howzit@turtles.org> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: Re: Honu Time Capsule suggestion

Jeez, you caught me off guard. I knew you'd like the idea but didn't think you'd accept. I figure you'd just say you've been collecting stuff for your successors for years.

 ${\tt OK},$ well I went shopping. Same company that our fireproof safes and chests come from. There's a media safe there.

http://www.sentrysafe.com/store/product.cfm?ProductID=831

Same size/look to the ones we bought for \$42.00. Difference? Yours has additional fire protection. We chose to buy lots of cheaper chests and put them inside a BIGGER safe -- two per safe plus all our paper/photo documentation.

Well I'd try to do all this before 2000 because then you can say it's from 1999. Future 2000'ers would find that cool.

Location? The StarBull article said that was crucial. People have buried capsules then forgotten where. Also said it was surprising how soon a capsule could be forgotten.

Archie Carr Center? Tern Island facility? Honlab?

Material? The chest but the samples have to be protected at all cost in highly durable non-leaking containers. An inventory must be included inside so people know they got everything that was intended.

If you collect most of the stuff over the next few days you can be forgiven if you date it 1999 and you'd seal it in 2000. We can even use today's date if you already start collecting some items. Looking at my item list I figure you could grab a dozen of them EASY.

Take a pic or two of you doing it. We post to Trax for posterity. We could then announce to CTURTLE and therefore the message is archived so future-people could read about the capsule.

At 07:56 PM 12/28/99 -1000, you wrote:
>Very Intriguing. With some modification, it might indeed be something to
>puruse. Also include some Prorocentrum, and tumor tissue (sealed in
>glass ampule like small pox, because 100 years from now they will be able
>to truly tell If it's the virus that did the dirt).

>Where do you in your wildest imagination think this capsule should be be >located, sealed away? And What would it be, glass, plastic, or ?

>Let's play around with this.

Date: Sat, 15 Jan 2000 07:18:53 -0500 From: Ursula Keuper-Bennett <howzit@turtles.org> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Cc: Peter Bennett < honu@turtles.org> Subject: Happy 35th

'morning.

Congratulations George. Lucky Live Hawaii with the Honu! At 06:35 AM 1/11/00 -1000, George H. Balazs wrote:

>Another topic- Something significant in my life nearly wizzzed by me/us.
>35 wonderful years living in The Land of Aloha. 35 years in Hawaii-Nei.
>35 years in Paradise. 35 years being (pretty much) Exactly where I wanted
>to be. I say "pretty much" because truth is it was Tahiti I wanted to get
>back to, Hawaii was similar (and closer than Califoria), so Hawaii it was >and is.

>35 years January 15, 2000, as near as we can recall to the exact date.
>Please send this message back to me on that day and say, Congratulations,
>George "Lucky Live Hawaii" with the Honu!

>You live here too. All the time. Within and through TRAX.

Date: Tue, 2 May 2000 13:40:00 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: East Island Turtle Count



Hi George:

I thought I'd email the latest turtle numbers we counted on East and Gins Islands. I'm looking forward to meeting the turtle techs and spending time on East Island to learn the protocal. The following counts were completed on 28 April. East Island: 23 in the water, (44 basking (unknown sex) and one Little Cip. 1 Molecular 19.

Little Gin: 1 Male, 2 Females and 12 other unknown basking, 4 in the water Gin: 3 Male, 7 Female and 11 unknown basking) 12 in the water and 8 turtle

pitts documented.

As always, it's good to hear from you and learn of your excitement for the season to come. Brian returns on 17 May. Looks like the month of May will turn out to be quite a busy one. I hope you enjoyed your Lei Day.

Aloha from Tern Island NWR, Tony

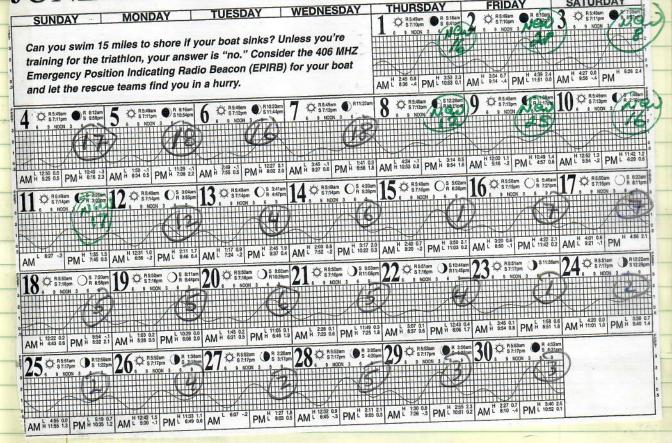
Marine Turtle Research NMFS HONOLULU LAB 2570 Dole Street Honolulu, HI 96822-2396

ALL SILICON Seeled

QQ Onset Optic Stowaway Temperature Data Loggers FFS 2000 - Set up for 3 hours and 12 minutes

DATE STARTED	SERIAL NUMBER	TIME STARTED
5/19/00	224562	1356
5/19/00	243573	1357
5/19/00	243570	1357
5/19/00	243571	1358
5/19/00	224566	1359
5/19/00	122324	1400
5/19/00	243575	1401
5/19/00	141199	1402
5/19/00	295520 (NEW)	1403
5/19/00	243577	1404
5/19/00	243581	1406
5/19/00	141201	1407
5/19/00	198448	1408
5/19/00	243574	1408
5/19/00	141200	1409
5/19/00	141202	1410
5/19/00	243583	1412
5/19/00	141198	1413
5/19/00	71054	1413
5/19/00	81755	1414
5/19/00	309440 (new)	1419
5/22/00	243572	0800

7RAW New 5/29: (21)



Date: Sat, 24 Jun 2000 22:37:18 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: VANESSA Re: How many ..

I am heading over to East today. First, my address is going to change around Jul 15. I don't know the Agricultural Science Bldg. address off of the top of my head. I guess that would be the one for the next 2 months. Animal Sciences

something Agricultural Sciences Bldg.

something East-West Rd.

Aaron and I are moving in together, so our address problem is the same. You could still just mail stuff to USFWS office or you could email me and I can pick it up since I am not that far away from your office when I am on campus.

Previously PIT-tagged turtle - She is 323U now with 22052D0173 LHF and 40774G4A50 RHF and no old metal tags.

was asleep when the plane took off and did not know you wanted the bones. I was planning on bringing them back with us. Aaron that rather heroically cut out the wrong ones. With no gloves, etc. he hacked the femurs out (apparently, lots of rotting juices, gore and gagging). When I talked to him before he went there I kept correcting him with a "humerus", but for some reason "femur" stuck in is brain. We have the femurs. Do you need the humerus? We can go back and get them if you would like.

Aloha, Vanessa

To: Peter Bennett <honu@turtles.org> Cc: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: Fwd: Re: Fw: mystery bit --and Disney DC3 Ursula Keuper-Bennett <howzit@turtles.org> Date: Sun, 11 Jun 2000 13:20:09 -0400

I announced what happened to N36 on the DC3 mailing list. I think it was important to do that.

>From: Ursula Keuper-Bennett <howzit@turtles.org> >Subject: Re: Fw: mystery bit --and Disney DC3 >Cc: "Bill Bwing" <westwing@escape.ca> >Date: Sun, 11 Jun 2000 13:17:50 -0400 >To: dc3notap@centercomp.com

>And think about it. Our parts are the nuts that secured the FUEL TANK >Thanks SO MUCH Sarg! You've made me very happy today.

>And "Trunnion" is a great word! And the parts are over 50 years old and >look almost good as new.

>In July 1998 I made a special trip to Oahu just to visit with that plane >--FAA W36-- that flew weekly duty into French Frigate Shoals.

>I presented the plane with leis.

>http://www.turtles.org/ffs/n36/n36-3.jpg

>I was hoping to visit her again this summer and never gave up hope that >someone would restore her to former glory.

>It wasn't to be. And all that my husband, me and a friend sea turtle >researcher have left are one of three identical "trunnions" I was kindly >allowed to keep from my 1998 visit to N36.

>We made a special tribute page for N36

>at: http://www.turtles.org/ffs/n36/ffsn36.htm

>now because the DC3ers here have been so kind helping me out. And because >A couple weeks ago we added the final "chapter" to her story. I share it

Date: Mon, 29 May 2000 06:51:33 -0400

Prom: Ursula Keuper-Bennett https://den.org/
To: "George H. Balazs" https://den.org/
To: "George H. Balazs" https://den.org/
Cc: Peter Bennett honu@turtles.org/
Subject: Re: N36- A fitting farewell (I think)

"When you reach the part where the heartaches come The hero would be me. But heroes often fail. And you won't read that book again Because the ending's just to hard to take,"

Gordon Lightfoot

At 09:26 PM 5/28/00 -1000, you wrote:

>see (even though they won't know what they're seeing is N36) (hey, we can >tell them!), then to sit forever in saddness disgrace (no wings no >engines) at Harry's. Or, to go to a scrap yard, be ground up, and never >be put on major movie film for history to have and to hold. >I haven't been hiding this from you, rather a mental block in remembering >to write and tell you what I learned. When taking haron and Vanessa to >the charter for Tern, I noticed no fuselage of N36 next door at Harry's. >I asked Bob the Tern charter pilot (he worked for Harry flying a >very logically surmised being blown up. A pang of sorrow hit me. Then, I >said, Hey, better to "go" that way, to be on film Forever for people to Speechcraft to Tern in the 70's). Bob said that Harry sold her (fuselage) >to Disney for the Pearl Harbor major movie they filmed some for here at >PH. Some attack scenes etc. Bob didn't know what she was used for but

>Anyway, now you know what I know. Aloha N36, we love you, George ************

To: Peter Bennett <honu@turtles.org>
Co: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Fwd: Fw: mystery bit From: Ursula Keuper-Bennett <howzit@turtles.org> Date: Sun, 11 Jun 2000 13:19:06 -0400

What each of us carry from N36 now identified. It was an IMPORTANT part!

>X-Mailer: Microsoft Outlook Express 4.72.3110.1 >From: "Bill Ewing" <westwing@escape.ca> >Date: Sun, 11 Jun 2000 11:48:55 -0500 -Original Message---->To: <howzit@turtles.org> >Subject: Fw: mystery bit

>From: Bill Bwing <<u>mailto:westwing@escape.ca</u>>westwing@escape.ca> >To: Ed Hake <<u>mailto:dc3@centercomp.com</u>>dc3@centercomp.com> >Date: Sunday, June 11, 2000 11:40 AM >Subject: mystery bit >ATTENTION ALL!!!!

>FOUND THE LITTLE SUCKERS!!!

>Check on the fuel tank securing straps. These are the "nuts" that secure >the straps together, The correct designation is:
> p/n 1118139 - Trunnion, fuel tank support sling, or
> p/n 1323725 - Trunnion, fuel tank cradie support bracket.

knew If I thought about it long enough, I'd remember!!

>"The Fate of N36

>On May 28, we received word of the fate of N36. George Balazs, who often >rode in N36 on her once-weekly flights to Tern Island, wrote to tell us >that GENAVCO had finally sold what remained of the noble craft to Disney >Productions for use in filming a movie about the Japanese attack on Pearl >Harbor (current title "Pearl Harbor", due for 2001 release). Sometime in >mid-April, they blew her up during the filming.

>Our first reaction was a pang of sorrow, as was George's, but in his note >to us he also wrote:

>"Better to go that way, to be on film forever for people to see (even >though they won't know what they're seeing is N36; hey, we can tell >them!), then to sit forever in sadness and disgrace (no wings no engines) >at Harry's. Or, to go to a scrap yard, be ground up, and never be put on >major movie film for history to have and to hold."

>The only thing left of N36 now is the memories of the people who flew in >her, and of course a few pictures such as those we feature here. She's >gone now, but she had a long and distinguished career that would do any >airplane proud. She can have no finer epitaph than the closing words of >George's email:

"Aloha N36, we love you!"

>Well that isn't QUITE accurate. There exist three "trunnions".

>N36 was a very special Gooneybird and even at her very end she wound up >serving her country.

>http://www.turtles.org/ffs/n36/n36-16.jpg

>Best wishes, >Ursula Keuper-Bennett >TURTLE TRAX

Date: Fri, 17 Mar 2000 22:04:53 EST From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: FFS turtles, 1

Hello George,

We went boating yesterday (3/16) and found the first signs of activity for the coming nesting season. There were two copulations observed near east island and our East Island count included the following: 3 males and 1 female basking, and 9 adults (unknown sex) at waters edge or in the water. I will be going to Trig tomorrow. (cont'd)

Date: Sat, 1 Apr. 2000 12:38:59 EST From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: FFS turtles

Hi George,

Chapure Another update on activity for you. Due to weather and being short on personnel, we didn't make it back to East or the Gins. I'm leaving today for 6 weeks, but have asked Tony to take notes and report to you. Aloha, all the best, Brian.

Tern: Over the last week, there have been between 2-6 adults basking on beaches during the day, mostly males. On 28 March, there were a pair copulating with 6 other adults surrounding them in shallow water off east beach. There was also one male basking on crab beach. The following day we saw 4 adults congregated together in the same location off east beach. Trig: On 28 March, we counted 6 males and 4 females basking at waters edge and one pair copulating in the water.

Date: Sun, 2 Apr 2000,21:40:24 EDT From: Hinwr@aol.com
To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: FFS Turtles Hi George: Thanks for the e-mail and support. I will try and continue the updates on turtle activity (copulations, basking animals, tracks, etc) while Brian is away. I planned on heading to East Island today, although, winds are fierce and I cancelled the trip. Gusts to 30-35knts. Do you recall if there are pit tags and protocal documents on Tern? I've only worked with old type steel tags before. I want to be ready for anything that comes my way. Allison Viet is here doing here Red-tailed tropicbird work. Isn't she seasoned with pit tagging? Anyway, I will not hesitate to contact you for equip or advise. Aloha, Tony Date: Fri, 28 Apr 2000_07:04:11 -1000 (HST)
From: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> To: Hinwr@aol.com Subject: Re: FFS Turtles Aloha Tony, sorry for my delay in writing to you. Just to let you know that I'm very very eager to learn of your latest observation (since you wrote the below on April 2nd). Looking forward to hearing from you. Vanessa will each you the pit tag protocol than you and her can write it, that would be easiest. Good news of course that both Vanessa and Aaron have now been officially selected for the East Island vitally-important monitoring this summer. Aloha, George On Sun, 2 Apr 2000 Hinwr@aol.com wrote: > Hi George: > Thanks for the e-mail and support. I will try and continue the updates on > turtle activity (copulations, basking animals, tracks, etc) while Brian is > turtle activity (copulations, basking animals, tracks, etc) while Brian is
> away. I planned on heading to East Island today, although, winds are fierce
> and I cancelled the trip. Gusts to 30-35knts. Do you recall if there are
> pit tags and protocal documents on Tern? I've only worked with old type
> steel tags before. I want to be ready for anything that comes my way.
> Allison Viet is here doing here Red-tailed tropicbird work. Isn't she
> seasoned with pit tagging? Anyway, I will not hesitate to contact you for

equip or advise. Alcha. Tony > equip or advise. Aloha, Tony To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>
Subject: Re: Is honucam down or what?

Shredder (a 240) (unlikely but watch for her. She got FP last year. I believe she will regress this year. Just a feeling)

Tiamat (1220) (your silver honu) Date: Tue, 23 May 2000 21:43:50 -0400 From: Ursula Keuper-Bennett <howzit@turtles.org> 10012000 Mototool U 362) (only sighted once in 1996 but to my eye she looked like her tumours were regressing. If she's around for 2000 or in your records after 1996, were regressing. If she's aro regression would be confirmed) A 249 t. Mahalo. That's If they see Shredder or Ti / pics would be nice. The rest of the wahines SHOULD be with us this summer. Mahalo. At 03:36 PM 5/23/00 -1000, you wrote: >there were over 100 honu out basking on East a few days ago. it will, we >pray, be an outstanding year like 1997 way. yes you can put in an order. >but to what extent it can get filled only God knows. Aloha, george Historical Information for Turtle Tag 573T Tag Number Tag Type Tag Position LHF

Growth-Rates Date Encounter

Date: Fri, 26 May 2000 14:11:43 -0400 From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu> Subject: Basking info request

We're now curious if any of the Honokowai honu have been recording as basking at East. And I'd like Randy's 4800 also in the mix. I why after (only I figure you likey already know why I'm asking) I'll tell you

Honu are:

U521, U359, F765, A240, 122C and U249

Mahalo in advance.

Date: Tue, 23 May 2000 01:47:42 EDT

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Aloha from FFS

Hello George.

Tony and I got your e-mail message today. Yes, lots 'o turtles. On East Island on 12 May at 1525, 012 adults were counted basking, and 16 in the water. Again on East Island on 21 May at 1700, 03 adults were basking, 5 were in the water, and several were seen in a reef area in the distance to the east including at least one copulation. We have also noticed about 20 turtles in the evening on east beach on Tern island. By the end of the week we should have new counts for the Gins and Trig.

Hope all is well with you. It's good to be back on Tern. Aloha, Brian

Date: Tue, 30 May 2000 23:16:37 EDT From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: FFS turtle update

George,

My first trip to East after returning was on 21 May and nesting activity was extensive on the SE length of the island (facing La Persouse). We do not have numbers (other than the # of basking turtles we sent), but continuous body pits extended from one end of the island to the other. On 26 May on Trig Island, 49 turtles were counted basking and there were numerous body pits (no count). One copulation north of Trig was observed. On 23 May on Gin Island, 29 turtles were basking and 13 were observed in the water. Body pits were present but no count was conducted. There were at least 5 turtles basking on Little Gin (no full count). Last night on East Island, Vanessa and Aaron reported 35 turtles up and 26 pit tags applied. I will take an early morning walk tomorrow and look for tracks to estimate numbers nesting on Tern.

Johns

Date: Tue, 6 Jun 2000 13:42:23 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: FFS turtle update

Hi George,

We picked up Vanessa yesterday and I believe she emailed you East Island data today. I went to Trig today and we counted 53 basking adults. Several more were in the surrounding water. On 1 June, Tony and I counted 23 turtle tracks up and back (in which digging occured) on Tern, and again 25 on 2 June. I felt my skills were too rusty to accurately count nests. Vanessa said she would do a morning nest count while on Tern. Let me know what kind of recording sphedule you want for Fast data and we'll see that you get it. reporting schedule you want for East data and we'll see that you get it.

Brian

			Histo	orical Information for Turtle Tag A240
Tag Information: Tag Number	Date	Tag Type	Tag Position	A 2110
40772D6029	6/8/98		LHF	
4077532361	6/21/98		RHF	10.10
A240	5/26/91		RFL	CHOENNO
A241	5/26/91		LFL	SINCUDER
U200	6/15/93		LHF	
U201	6/15/93		RHF	

	Type of					Inte	rval	Growth	-Rates	Inte	rval	Growth	Rates
Date	Encounter	Location;	TumorRank:	NestingAct:	Curved Carapace	Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/yr
5/26/91	Nesting	East	0	C	102.5	-	-	-	-	-		-	
5/27/91	Nesting	East	0	×	102.5	-			-	-			-
5/28/91	Nesting	East	0	P	102.5	_			-				-
5/28/91	Nesting	East	0	P	102.5	-	-	-	-	-	-	-	-
6/11/91	Nesting	East	0	Р	102.5	-		***	-	-	-		-
6/11/91	Nesting	East	0	P	102.5	-	- 140					-	
6/24/91	Nesting	East	0	N	102.5	-			-	-			-
6/24/91	Nesting	East	0	N	102.5	-			-	-	-	-	
7/6/91	Nesting	East	0	x	102.5	-	-	-		. 1.0	0.1	0.0	0.0
7/6/91	Nesting	East	0	x	102.5	-	-			1.0	0.1	0.0	0.0
7/7/91	Nesting	East -	0	N	102.5			_	-	1.0	0.1	0.0	0.0
7/7/91	Nesting	East	0.	N	102.5	-	-	-	-	1.0	0.1	0.0	0.0
7/20/91	Nesting	East	0	M.	102,5		-		-	1.0	0.1	0.0	0.0
7/20/91	Nesting	East	0	М	102.5		_	_	_	1.0	0.1	0.0	0.0
8/1/91	Nesting	East	0	N	102.5	-				2.0	0.2	0.0	0.0
8/1/91	Nesting	East	0	- N	102.5		-	_	-	2.0	0.2	0.0	0.0
6/15/93	Nesting	East	0	х.	103.5	22.0	1.8	0.0	0.6	24.0	2.0	0.0	0.5
6/16/93	Nesting	East	0	x	103.5	-	-	-	-	24.0	2.0	0.0	0.5
6/17/93	Nesting	East	0	×	103.5	-	_	_	_	24.0	2.0	0.0	0,5

6/13/00 7:36:37 AM

_							Since Las	t Encounter			O	erall	
						Inte	rval	Growth	-Rates	Inter		Growth	
Date	Type of Encounter	Location:	TumorRank:	NestingAct:	Curved Carapace	Month	Year	cm/mon	cm/yr	Month	Year	cm/mon	cm/
6/29/93	Nesting	East	0	P	103.5	_	_	-		25.0	2.1	0.0	0.5
6/29/93	Nesting	East	0	x	. 103.5	-	-	-	-	25.0	2.1	0,0	0.5
6/9/96	Nesting	East	0	N	104.0	35.0	2.9	0.0	0.2	60.0	5.0	0.0	0.3
6/21/96	Nesting	East	0	м	104.0	-	-	-	-	60.0	5.0	0.0	0.
6/22/96	Nesting	East	0	P	104.0			-		60.0	5.0	0.0	0.
7/3/96	Nesting	East	0	C	104.0		***	-	-	61.0	5.1	0.0	0.
7/4/96	Nesting	East	0	×	104.0	-	-		-	61.0	5.1	0.0	0.
7/19/97	Near Shore	Maul, Honokowai	0		-	12.0	1.0	-	-	73.0	6.1	***	
7/27/97	Near Shore	Maui, Honokowal	0		-	-	_	_	-	74.0	6.2	-	-
6/7/98	Nesting	East	0	C	-	10.0	0.8	-	-	84.0	7.0	-	-
6/8/98	Nesting	East	0	×		-	-	-	-	84.0	7.0	-	-
6/9/98	Nesting	East	0	M	-	777		-		84.0	7.0	-	-
6/21/98	Nesting	East	1	M	A				-	84.0	7.0	-	-
8/26/99	Near Shore	Maul, Honokowai	11	1-3	LI DEVE	14.0	1,2			99.0	8.3	-	-

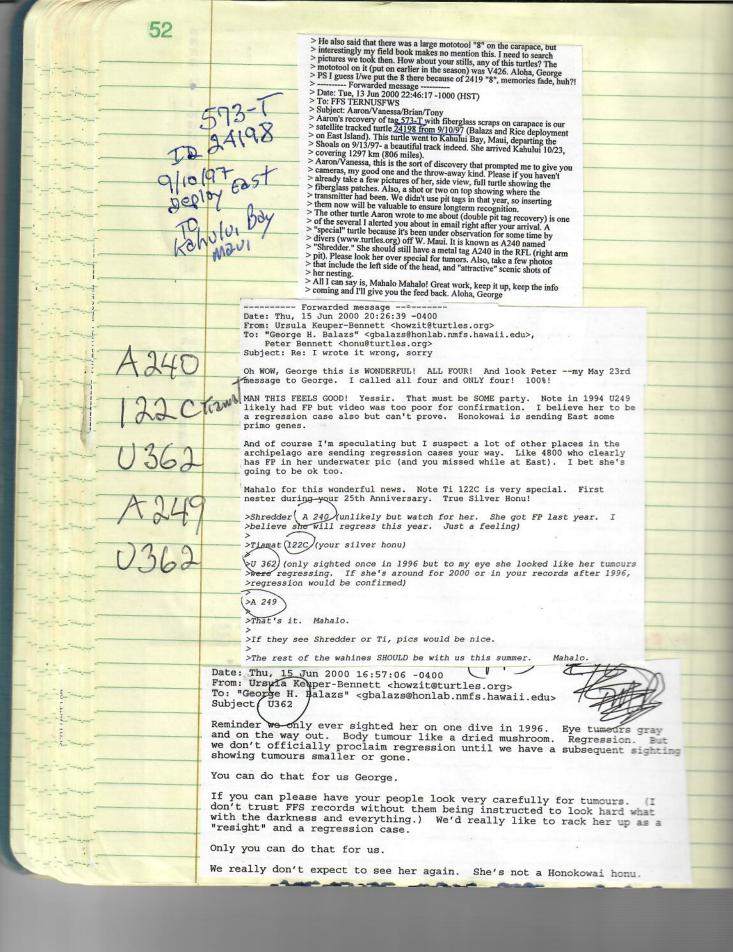
Date: Mon, 12 Jun 2000 17:31:29 EDT

From: Hinwr@aol.com

6/00 EUST

To: gbalazs@honlab.nmfs.hawaii.edu Subject: another PIT tagged turtle

Aloha George,
Well, my first four days were exciting and awesome, had a bit of weather and lost a good size chunk of the rain fly, but it still keeps mostly dry inside.
My last day, 2nd to last walk, I had my first previously PIT tagged turtle
(LHF 40772D6029, RHF 4077532361) which was kind of exciting. I also had a
turtle with fiberglass remnants around the center/back of her carapace and a
large mototool #8 to the right side of the remnants. She has an old
flippertag on the LHF that read 573-T. Thought that might be interesting
too. So far (as of the 8th) we have used 262 tags and have 232 left. The new
daily total #'s are: 5th- 32 up, 18 new, 1M, 2P, 3N; 6th- 37 up, 16 new, 5M,
1P, 2N; 6th- 37 up, 16 new, 5M, 1P, 2N; 7th 32 up, 18 new, 7M, 0P, 1N; 8th25 up, 12 new, 3M, 2P, 0N. Thats all for now. Aloha, Aaron.



_			RATION OF THE PARTY OF THE PART	
To	om: T	Jrsula Ke eorge H. F. Regres	un 2000 17:08:26 -04:00 uper-Bennett <howzit@turtles.org> Balazs" <gbalazs@honlab.nmfs.hawaii.edu> sionball's in your court</gbalazs@honlab.nmfs.hawaii.edu></howzit@turtles.org>	
I	just	told you	about U362. Just some lady passing through when we sighted	
		redder A2	land of gourge we get lucky and she gets	
h:	ack i	n time!		
11	mores	sive pile	what I saw(concluded) last summer we're going to rack up an e of regression cases if all(most) show for 2000.	
p	aper.	happeni	need as many regression cases for our next regression to push regression in subadylts/adults to 50%. I know ng. I want to PROVE it. Those two wahines are important in	
t	hat g	goal.	g the paper and getting the proof after. Just educated	
_ e	veba.	lls secin	g but now eager to PROVE.	
				T
	Dat	e: Thu, 1	5 Jun 2000 02:34:05 EDT	+
	TO.	m: Hinwr@	phonlab.nmis.nawaii.edu	
-	Sub	ject: Tur	tle update cont.	
	Dea	r George		
	ר ר ב	4 specia	al turtles that you want us to photo have shown up. No pictures	
_	tak	en yet,	but are working on it. otoed (223U) on 6/7 recorded as a Maybe nester - should see her on	
	21	Time		
	<u>U-3</u>	362 was M	otoed (56H) on 6/9 recorded as excavating. otoed (26H) on 6/9 recorded as a probable nest - should see her on	
	A-2	June.	occoed 25,000 on 5/5 1 200 or available of a grayating	
	12:	2-C was M	otoed 281U on 6/11 recorded as excavating.	
	Dat	talogger	info.	
	N#	2 logger	# 243581 Moto 110U; old tags - 457-C RHF, 9712 LFL, 9714 RFL. # 295520 Moto 138U: " - 159-C LHF, 160-C RHF, 161-C LFL	,
	16 N#	2-C RFL.	- I have to find this one - I'll give an update later - it is	
	di	nner time	21 Moto 257U: old tags - 345-C RHF.	
	N#	1 logger 15 logger 16 logger 1637 rfl.	243577 Moto 2377, old tag - U124 rhf 243570 Moto 73U: old tag - U124 rhf 243574 Moto 217U; old tags - 11636 lhf, 11635 rhf, 11638 lfl,	
	A]	loha, Van		
			Date: Thu, 15 Jun 2000 23:12:00 -0400	-
		T GI	From: Ursula Keuper-Bennett <nowzit@turtles.org> To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu></gbalazs@honlab.nmfs.hawaii.edu></nowzit@turtles.org>	
			Cc: Peter Bennett <honu@turtles.org> Subject: Re: I wrote it wrong, sorry</honu@turtles.org>	
			Well sir now that you mention at I just went through the database.	
			Well sir now that you mentioned I just well and you said it was tag	
17	n: 1	ilne .	In 1995 we spotted a honu with X25 or shell and you said it was tag U164. Not a Honokowai honu. Spotted once I believe in 1995 and again once in 1996. Have her down as having FP by 96. Eye tumours - #16. Not	
-	gh	Tan-	sighted since. Don't know her nesting record at all.	
UE	jeci		Also sighted fairly regularly for first time this summer 605C. Hear end badly injured (likely infected you said) all whitish. Not tumours but left eye and neck look suspicious. Don't know nesting record here either.	Ī
e,	50	the PIT	And Mendelbrot nested in 1998 so is unlikely there but I guess you can check for that too. (She's another regression case)	1
he	61	bat on	Mahalo for asking.	
1	10		At 04:45 PM 6/15/00 -1000, George H. Balazs wrote:	
		excha	>Any more number you might want to give me that they can watch out for.	
	ania	te of T		
)£	A24	1	>extra time to watch for anything what it was a second which naturally sthe spot, instead of us picking it up later post-season, which naturally would happen, eventually). Aloha, George	
		ALL THE	> ************************************	

Date: Thu, 15 Jun 2000 02:33:48 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: Turtle Update

Dear George,

PITS each. I know Aaron sent you the numbers thru 7 June. On my stint applied 70 PITs only in LHF. The total number PITs applied as of 11 were 333. Aaron should also be applying only to LHF. I am hoping that will have enough till the 23rd. I don't know how many Aaron has applied the latter of th the last 2 nights as we have radio troubles also. If remaining PIT. In numbers are very low the last 4 nights before the 23rd, I am thinking/suggesting that we apply PITs only to turtles with no previous that

Daily totals: 6/8 25 up 12 new 3M, 2P, 0N 6/9 41 up 25 new 11M, 3P, 4N 6/10 37 up 16 new 7M, 3P, 1N 6/11 38 up 17 new 12M, 2P, 3N
From 29 May - 11 June a total of 253 turtle IDs and 149 of them previously tagged. so approx. a 59% resight.

More to follow.

Aloha, Vanessa

----- Forwarded message Date: Sat, 17 Jun 2000 21:54:13 -0400
From: Ursula Keuper-Bennett <howzit@turtles.org>
To: "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>,
Peter Bennett <honu@turtles.org>
Subject: Re: I wrote it wrong, sorry **ERROR**

Must go back to this message:

>As per your message of 23 May, the tags you listed:

>A240

>122C

≥0362 >A249

>All are at East, having a party. Without you. Also with out me!

It wasn't you who wrote it wrong. And I don't know how it happened because I have the tags memorized so there is no mistake that way. It's a pure

A249 is NOT our honu!

We have (and I MEANT to type U249.

Peter picked up on it just now --although sooner or later I would have too. This is entirely my fault and I apologize.

I ask though if you can look at East for U249. First sighted in 1994 and you met her when you dived with us then.

Haven't a clue what could have happened. The A and the U aren't even CLOSE on a keyboard! And I know for certain all tags so there's no chance of confusion there either. Again, sir, I apologize.

U249 George. She may be at East.

Date: Thu, 22 Jun 2000 14:12:30 EDT

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Re: How many ...

I don't know if Aaron told you, but the turtle with tag U249 is still moto 260U. Apparently, I decided (in sleepless haze) that that was the turtle we wanted, even though, at that particular time, tag numbers didn't exactly match up. Aaron is in awe of my "powers".

12 June	41 up	(12) new	5M,	5P,	ON 2M,	AD 1P,	ON	AD
13 14 June 15	34 38 31	6		MO	3P,	3P, 5P,	2N	AD VP
16 17	34 43 45	3			13M	, 2P,	3N 2N 4N	VP
18	39	(5)			JM,	23 1	,	

As of 19 June, approx. 382 PIT used and 113 unused on Tern. There are 205 As of 19 June, approx. 382 PIT used and 113 unused on Tern. There are 205 turtles left that need 2nd RHF PIT, however, we won't see some of them again. We were up to 300 turtles ID'd. I told Aaron to start putting in RHF tag last night. I guessed another 125-150 tags to get us through? To account for new turtles that will continue to come up and all of the RHF tags that need to be applied. We are anticipating breaking down camp on 1 July. We will have 31 full nights of data and that will leave us 2,3, and 4 July to clean up. To be honest, we would like to take at least a half day off for the 4th to have fun with everyone on island. We leave on the 5th.

Last night Aaron photo'd A-240 (moto 223U) digging an egg chamber. She was close enough to seals where he didn't feel comfortable coming back repeatedly to catch her laying eggs.

Vanessa

Date: Wed, 21 Jun 2000 11:09:11 EDT

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: FFS turtles

Hi George,

Been in the boat repair business lately and haven't been to able to get you more nesting info from the outer islands. We will be going to East and the Gins tomorrow and Aaron will come along to the Gins and collect the humeri from a dead adult found by the NMFS seal crew.

Aloha, Brian

------ Forwarded message -----Date: Tue, 20 Jun 2000 18:41:53 EDT

From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: sorry for the delay

hi, sorry I didnt get back to you sooner, have been busy with misc. things here. The PITs are going in fine and it looks like we will make it ok until the flight on 23rd. The #s for new turtles from June 4,5,6,7 are (in order) 17, 18, 16, 18. #s of new turtles were much lower on my last 4 days (June 12,13,14,15) but I forgot to bring the numbers back with me beause it was a hurried exchange, but I will have Vanessa send you those #s tomorrow and an estamate of PITs needed on the flight. We'll be sure to look for U249 instead of A249.

Aloha, Aaron.

Roburel FFG

Tag Information:			
Tag Number	Date	Tag Type	Tag Position
4077334654	6/15/98		RHF
407755285B	6/15/98		LHF
p F163	6/22/92		LHF
F164	6/22/92		RHF
F165	6/22/92		RFL
F166	6/22/92		R34
G781	6/11/96		RFL
U447	6/17/94		LHF
W112	5/25/89		RFL
W113	5/25/89		LFL



									st Encounter			0	eni	
-	Date	Type of Encounter	Location:	TumorDonki	NestingAct:	0		rval		h-Rates		rval	Grave	-Paries
- 25		Nesting				Curved Carapace	Month	Year	cm/mon	cm/yr	Month	Year	ominos	antie:
			East	0	×	93.5		-	-		-	_	_	_
	5/26/89	Nesting	East	0	N	93.5	-	-		_	-			
	6/3/89	Nesting	East	0	C	93.5	-	220	_	_			_	
40	6/7/89	Nesting	East	0	Р	93.5	-	_	-		_		-	-
	6/18/89	Nesting	East	0	×	93.5	_			-	-	-	-	-
a	6/29/89	Nesting	East	0	С	93.5		-		-	-	-	-	-
89	6/30/89	Nestina	East	0			-	-	-	-	1.0	0.1	0.0	0.0
		9.5			N	93.5	-	-		-	1.0	0.1	0.0	0.0
	7/10/89	102/1/22	East	0	C	93.5		-	-		1.0	0.1	0.0	22
	7/12/89		East	0	X	93.5	-	-	-	-	1.0	0.1	0.0	00
	7/13/89	Nesting	East	0	x	93.5	_	_	_	_	1.0	0.1	0.0	
	7/24/89	Nesting	East	0	C	93.5	_	_						0.0
	7/25/89	Nesting	East	0	×	93.5					1.0	0.1	0.0	20
	8/7/89	Nesting	East	0	c	93.5	-	-		-	2.0	0.2	0.0	0.0
	8/8/89	10.00	East				-	-		-	2.0	0.2	0.0	00
				0	Р	93.5		-		-	2.0	0.2	0.0	225
	5/31792		East	0	N	95.7	33.0	2.8	0.1	0.8	36.0	3.0	0.1	97
	6/11/92	Nesting	East	0	C	95.7	-	-	-	-	36.0	3.0	91	17
													-	-
_														

V-2000000000000000000000000000000000000	SECONDATE OF THE PARTY.		
Historical	Information	for Turtle Tag	G95

Tag Information:			
Tag Number	Date	Tag Type	Tag Position
22000C4977	5/31/98		LHF
4077345655	6/30/98		RHF
G95	6/20/95		RHF
G96	6/20/95		LHF
G97	6/20/95		RFL
G98	6/20/95		LFL

Date Type of Encounter		Location:	TumorRank:	NestingAct:	Curved Carapace	Since Last Encounter Interval Growth-Rates				Overall			
	1					Month	Year	cm/mon	-Rates cm/yr	Month	Year	God	- Partie
5/20/95 Nesting	East		0	C	98.0	_		_	-	-	_		
5/21/95 Nesting	East		0	×	98.0	-			_				
7/4/95 Nesting	East		0	c	98.0	_		_		_		-	-
7/5/95 Nesting	East		0	м	98.0	-	_	-	-	_		-	
/31/98 Nesting	East		0	С	99.5	34.0	2.8	0.0	0.5	35.0	2.9	00	
6/1/98 Nesting	East		0	P	99.5	_	_	_	_	35.0	2.9	0.0	-
/16/98 Nesting	East		0	N	99.5	_	-	_	-	35.0	2.9	00	225
/30/98 Nesting	East		0	N	99.5	_		_		36.0	3.0		-
6/2000 6	35					1000				30.0	3.0	2.0	-
0 00-	unter	Location	tumore	cank: Nesun	PILL CUIVES CHIEFES	The state of							
6/12/92 Nestin	a 1	East	0	×	95.7	_	-	-	-	36.0	3.0		
6/22/92 Nestin		East	0	c	95.7	_			_	36.0	3.0		
C7 7/4/92 Nestin		East	0	X	95.7	_	_	-	-	37.0	3.1		
7/14/92 Nestin		East	0	x	95.7	-	-	_	_	37.0	3.1		
7/24/92 Nestin		East	0	N	95.7		_	-	_	37.0	3.1	-	
8/4/92 , Nestin		East	0	N	95.7	-		-	_	38.0	3.2	2 2	
8/15/92 Nestin		East	0	N	95.7	-	_	1	-	38.0	3.2		
6/17/94 Nestin		East	0	P	95.5	22.0	1,8	0.0	_	60.0	5.0		2
6/28/94 Nestin		East	0	×	95.5	-	-	-		61.0	5.1		2
. 6/29/94 Nestin	-	East	0	N	95.5	-	-	-	-	61.0	5.5		
9 6/M795 Nestin	ig.	East	0	N	97.0	23.0	1.9	0.1	0.8	84.0	73	0 0	
6/21/96 Nestin		East	0	×	97.0	_	-			84.0	71	0 0	
		East	0	×	97.0	-	-	-		84.0	71		
7/2/96 Nestir		East	0	N	97.0	_	_) j e	. –	85.0	7.5		10
6/4/95 Nesti		East	0	F	97.0	23.0	1.9	0.0	0.0	108.0	91	0 0	10
(8 6/15/98 Nesti		East	0	, N	97.0	_	_			108.0	9	0 0	10
6/26/98 Nesti		East	. 0	,	97.0	-	-			109.0	1 1	1 0	10
6/27/98 Nesti		East	0		97.0	-	-		-	1093	9	1 1	10
6/2000	William Co.	ast											

Date: Wed, 16 Aug 2000 13:21:30 EDT From: Hinwr@aol.com

To: gbalazs@honlab.nmfs.hawaii.edu

Subject: Re: Aloha Brian

Hi George,

All is well here. Turtle nesting has slowed and we are getting large numbers of hatchlings. Hatchlings are being rescued from the north seawall and runway every day, and we have rescued at least 12 adults so far. I was on the Gins a few days back and they seem to have considerably more body pits than I remember in past years. Although I had just got here in 97, the big year, and don't recall that year real well. Trig is covered with body pits too. We have not been on Shark or Disappearing. Right now, Tony and I are assisting the marine debris project and we've seen a few adults between Tern and Trig, where we've been working. How did the East Island season turn out for you? I know that Vanessa and Aaron worked very hard. I hope all is well with you. All the best, Brian

Data logger

Date: Tue, 19 Sep 2000 17:47:25 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Aloha from Tern

One of your temperature data loggers was found on the surface of the ground by one of our volunteers. I was just recently informed and have it in my office, but apparently its been out of the ground for quite some time. What would you like me to do with it? We have a flight on friday.

Hope all is great with you.

Aloha, Brian

Date: Tue, 4 Jul 2000 01:43:06 EDT From: Hinwr@aol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: VANESSA- Address and Bones

George,

My parent's address is: c/o Peter and Regula Pepi 11501 Brookview Rd. Woodbury, MN 55129 (651)436-5961

They will accept phone calls and mail for their largely homeless daughter.

Update; 6 new 5m, 0p, 3n 38 turtles up 20 June .4m, 1p, 3n 50 21 4m, 1p, 3n 42 22 2m, 1p, 5n 40 23 10m, 1p, 3n 9m, 4p, 3n 11m, 1p, 0n 53 24 2 25 44 26

Aaron is on East and the last night is tonight (the 30th). He has had the new "record" number of turtles up - around 65: The humeri are on Tern - NMFS cut the flippers off and brought them back. I am going to excise the humeri this aft.

Aloha, Vanessa

Date: Fri, 8 Sep 2000 13:34:11 EDT From: Hinwreaol.com To: gbalazs@honlab.nmfs.hawaii.edu Subject: Aloha from Tern Island

Hope all is great with you. Things are quiet on Tern with just 3 of us out here now. Wanted to let you know that I will be coming into Honolulu on 22 Sept and will be around for 1-2 weeks. If your not gone somewhere during that time, I'd like to see you. I haven't gotten the new job I want yet, but I likely will soon, and this will be my last stint on Tern.

Over 20 adult females rescued from entrapment so far this season.

All the best, Brian

Date: Mon, 07 Aug 2000 15:36:35 -1000 From: Kristy Masada <kmasada@s360.swfc2.nmfs.gov> To: gbalazs@honlab.nmfs.hawaii.edu Subject: New humeri

Hi George,

Just wanted to let you know that I picked up a set of humeri fr Liz Kashinsky down at KRF. Here's the info that was on the card:

Collected by A. Dietrich Fr. Jin Island, FWS, HI NWR June 21, 2000 Female-found dead

I re-bagged and labled it and put it on the right side of the top shelf in the up right frezzer (the door was too filled).

I'm really sorry about the stench in A2. I should've been more careful.

Date: Thu, 10 May 2001 From: Hinwreaol.com

To: gbalazs@honlab.nmfs.hawaii.edu Subject: Re: Items of G. Balazs coming on Cromwell

Thanks for the information. I tried several times with no luck to email you with updated turtle info. I will attach part of that message here. But the jist of it is we are frequently observing 15-20 turtles on East beach. And two days ago 32 were counted either on the beach, copulation near shore or basking. I will try and get a haul up number to you this week.

I appreciated the articles, as well as the email you sent me. Interesting stuff; it's nice to see our efforts paid dividends like that. I've been extremely busy with flights, USCG dump clean-up logistics, and the increasing activity in the seabird plots. I was walking the north side of the island today while doing a mean incubation count for white terms and counted six adult turtles on Shell beach; basking and in the water. Further on down at East beach, there were another 6-8 turtles. At least two pairs were copulating. Others in the shallows and a few basking. I have a sneaking suspicion this year will be a large nesting year. I look forward to your correspondence and this turtle season.

With warm aloha, Tony

Shell is the beach to the eight

2001

May 2001 07:14:06 -1000 que Aycock@r1.fws.gov . Balazs <gbalazs@honlab.nmfs.hawaii.edu> Propan: and Plane

Les not have any special food needs as far as I know. All the ints last year came from Vanessa. A field biologist who won't eat a material data. I still haven't heard a peep from Aaron. There is plenty of Jane up there. They are the 10 gallon size for the fridge and the camp e or the 10 gallon size for the stove which ever works better for the mp. I would rather us pay for the 31st flight if that is all right with you. As far as Passengers on that flight there will be you, Aaron, a volunteer, and a NMPS person. So if you have any special gear that will fit on the ship I would recommend sending it that way. I do have some room left in the pallet tub going up on the Cromwell. I sent a box of rite-in-the-rains up on the last cromwell cruise along with all the other turtle requests from the SOP.

Nesting..... I asked Tony this morning on the Radio about turtle activity. He said they have noticed 5-6 body pits. There is lots of basking and copulation going on too. He predicts a busy year from what he has seen so far.

Speaking of Tony. He wanted me to let you know that he has been trying to email you, but has not been able to get through yet. He said he will try one more time and then ask some one to forward it to you.

The refrigerator.... I could actually pick that up today. I will call you from Kapahulu. I have a safety inspection there today and so I will pack up the van in preparation for Monday. I will call you from there to arrange things for either today or Monday whichever will work better for you and your staff.

I hope this answers all your questions so far. I will talk to you later this morning.

Domo

"George H. Balazs" <gbalazs@honlab.nmfs.h awaii.edu>

05/03/2001 09:10 PM

To: Dominique Aycock <Dominique_Aycock@rl.fws.gov> cc:

Subject: Propane and

Plane

Just double checking again on a few things:

Aaron have any special food item needs?

Propane is up there, plenty?

Plane on 5/31 will be my payment on my PO?

Nesting up there. Please. Please can you find out from Tony what in the way of nesting they are seeing up there yet? Any? Even if they haven't been going to East, for me to know what is or isn't happening on TERN would be helpful. Mahalo George