NOAA Fisheries
Pacific Islands Fisheries Science Center
Marine Turtle Research Program
2570 Dole Street
Honolulu, Hawaii 96822-2396
(808) 983-5730

Sea Turtle Tagging Form

Version 3 - Sept 2010

Turtle ID _____ Data Recorded By Sara Kimura

Release Date 10/6/15 Release Site Pond 1

Capture Information:

Species (CM) EI L Sex M F Recapture (Y) N

Date 10/6/15 Island Hawaii Study Site Kiholo Bay Lat 19.8548 N

Capture Method: Hand, Hand/Snorkel, (Scoop), Net, Basking, Strandin

Location Auwai Lon 155.9216 W

Old Tags

PIT (LHF) 413620[illegible]D3E Tag (LHF) _____

PIT (RHF) 44540570[illegible]2C Tag (RHF) _____

PIT ( ) _____ Tag (lh) Q742

Old MT LFL Q740 Remewed ☐ Other Tag rfl Q741

New Tags Y N

PIT (LHF) _____ Tag ( ) _____

PIT (RHF) _____ Other _____

New MT _____ Other _____

Measurements (cm)

SCL	62.8	Lat1	/
Notch	62.5	Lat2	/
SCW	50.3	Lat3	/
CCL	67.0	Plastron	51.4
CCW	59.5	Tail	/
Head	/	Vent	/
RFF	/	Weight (lbs)	76.5

Visual Examination

Tumors	Y (N)	Leeches	Y (N)
Oral Tumors Visible	Y (N)	Leech Eggs	Y (N)
Tumor Score	0	Emac Code	6
Dorsal Barn	0	Vent Barn	0
Flipper Amput'd	Y (N)	Carapace Damage	Y (N)
Fish Hook	Y (N)	Fishing Line	Y (N)
Boat Impact	Y (N)	Shark Attack	Y (N)
PPS	(Y) N	Photos	Y (N)

Comments: Injuries, Abnormalities, Mouth Contents, etc.

rfid 180705479 (2nd Lat Left)
Robust body condition

Samples Y (N) ☐ Skin (DNA) ☐ Diet (lavage) ☐ Barnacles ☐ Tumor ☐ Blood ☐ Skin (SIA) ☐ Diet (mouth) ☐ Other _____

Tumors

	1	2	3	4	Comments
R eye					
L eye					
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

(1)

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Version 3 - Sept 2010

Turtle ID _____ Data Recorded By Sara Kimura

Release Date 10/6/15 Release Site Pond 1

Capture Information: Species Cm Sex U Recapture N

Date 10/6/15 Island HI Study Site Kihole Lat 19.8548

Capture Method hand AuWai Location AuWai Lon 155.9216

Old Tags

PIT (LHF) _____ Tag (LHF) _____

PIT (RHF) _____ Tag (RHF) _____

PIT ( ) _____ Tag ( ) _____

Old MT _____ Renewed ☐ Other Tag _____

New Tags (Y) N

4C3B54502B

PI (L

PIT (RH

4C3D207C49

New MT _____ Other _____

Measurements (cm)

SCL	43.1	Lat1	/
Notch	42.7	Lat2	/
SCW	34.6	Lat3	/
CCL	45.5	Plastron	34.8
CCW	~~39.5~~	Tail	9.5
Head	7.1	Vent	6.5
RFF	7.7	Weight (lbs)	24

Visual Examination

Tumors	0	Leeches	0
Oral Tumors Visible	0	Leech Eggs	0
Tumor Score	0	Emac Code	0
Dorsal Barn	0	Vent Barn	0
Flipper Amput'd	0	Carapace Damage	0
Fish Hook	0	Fishing Line	0
Boat Impact	0	Shark Attack	0
PPS	no	Photos	0

Comments: Injuries, Abnormalities, Mouth Contents, etc.

Samples Y (N) ☐ Skin (DNA) ☐ Diet (lavage) ☐ Barnacles ☐ Tumor ☐ Blood ☐ Skin (SIA) ☐ Diet (mouth) ☐ Other _____

Tumors

	1	2	3	4	Comments
R eye					
L eye					
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Date: Sat, 1 May 2010 14:32:14 -1000
From: Devon Francke <devon.francke@gmail.com>
To: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>,
"Stacy [Kubis] Hargrove" <Stacy.Hargrove@noaa.gov>
Cc: David Hyrenbach <khyrenba@gmail.com>
Subject: Summary of TDR data from April 27 field day

Hi George and Stacy! I have attached a brief summary of the data collected from the TDRs from our field work on April 27. It discusses the performance of the tags, the average and median dive depths of both tagged turtles, and the number of overlapping data between the TDRs and acoustic tags/receivers. Overall, we are very pleased with the results, and I look forward to our next session to upload more data!

-->

In regards to the acoustic tag (Vemco, V16 tags) specifications you requested:

1) The small (unarmored) acoustic tags: 5.2 cm length, 1.6 cm diameter (we have 3 more tags)
The large (armored) acoustic tags: 7.2 cm length, 1.8 cm diameter (we have 5 more tags)

2) According to the manufacturer, the casing for these tags cannot be removed, so the batteries cannot be replaced on the tags.

3) We contacted the manufacturer to inquire about potential interference between two acoustic tags being placed on one turtle, and we are currently awaiting a response from them. In the meantime, we tested to see if the signal of two acoustic tags would interfere if placed next to each other using the V100 receiver:

- If the tags are placed side by side, there is definite interference - could not hear one of the tags.

- If the tags are placed in line (with transducers facing away from each other) - both tags can be heard.

The reassuring result of this test is that we can check for interference before we attach the second transmitter to the turtle.

Let me know if you have any questions, comments, or concerns!

Devon Francke

[Part 2, Application/MSWORD 547KB.]
[Unable to print this part.]

Date: Thu, 15 Apr 2010 14:34:47 -1000 (HST)
From: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
To: Devon Francke <devon.francke@gmail.com>
Cc: David Hyrenbach <khyrenba@gmail.com>,
"Stacy [Kubis] Hargrove" <Stacy.Hargrove@noaa.gov>
Subject: Re: Scheduling our next trip

Devon I started to read you message, but quickly decided it's jumping too far forward for me at present. That's because of the BiG UnKnowN of how your loggers performed, something we won't know until we capture there on Tuesday April 27. So, I'll revisit your message after April 27th. Cheers, George

On Thu, 15 Apr 2010, Devon Francke wrote:

> Hi George and Stacy! In anticipation of scheduling the next turtle catching
> session, David and I felt it would be a good idea to lay out for both of you
> our potential plans for the entire study period to hopefully figure out how
> we'll go about doing the rest of these sessions, as well as how often/how
> many we'll be doing.
>
> Our first tagging session was on March 18th of this year, and the memory of
> the TDRs last approximately 30 days (or 1 lunar cycle). So, I have declared
> March 18 as the start of the first lunar cycle in my study time period. The
> study period will also be broken into 4 seasons, which will be 3 lunar
> cycles in a row - spring (March 18, 2010 - June 18), summer (June 18 - Sept
> 18), fall (Sept 18 - Dec 18), winter (Dec 18 - March 18, 2011) (dates are
> approximate).
>
> In an ideal situation, we would be able to run these acoustic tags and TDRs
> for the full year. However, there are a few constraints that may limit this
> from happening, which I'll discuss next: 1) battery length of the acoustic
> tags, 2) whether or not I receive the Nancy Foster Scholarship, and 3)
> graduation in May-August of 2011. Then we'll need to figure out how many
> turtle catching sessions we will be able to perform in a couple different
> scenarios (realistic vs. ideal).
>
> The first issue to discuss is that of the acoustic tags which are already on
> the 12 turtles. These tags were attached on either October 29/30 of October
> 2008 (6 tags - 3 big/3 small), or February 18 of 2009 (another 6 tags - 3
> big/3 small). The battery life of these devices is 739 days, meaning that
> by November 10, 2010, the first set of batteries on the tags will run out,
> which means we'd be able to sample all of spring, all of summer, and most of
> fall with the current tags being used. And, it just so happens that the 3
> turtles which received TDRs were turtles tagged with acoustic tags in
> October 2008. So, it wouldn't be possible to sample with the current
> acoustic tags during the winter. The TDRs would still work fine, but using
> the combination of both TDRs and acoustic tags gives us the power to
> determine diving behavior (TDR) as well as location of the dive (acoustic
> tag). However, we currently have another 8 acoustic tags which are ready to
> be attached to turtles (5 big tags, 3 small tags). If we would be able to
> attach these new tags to turtles at the site, along with TDRs, then the
> battery life would last more than enough to be able to sample winter as
> well, and could potentially be used for further research on turtles at the
> site. This would be your decision, George and Stacy, if you feel you would
> be willing to attach more tags to turtles, or if you feel that it wouldn't
> be worthwhile to do so.
>
> The second issue (the Nancy Foster Scholarship) actually ties in with the
> third issue, which is my planned graduation time. Worst case scenario, I
> don't get the scholarship, and I will graduate in either May or August of

SAME OR DIFFERENT?

> 2011. If this is the case, then it would make more sense to stop tagging
> turtles once the battery life runs out, in November 2010. But, if I do get
> the Nancy Foster Scholarship, then I will have funding for an entire extra
> year of graduate school, and perhaps putting the extra tags on turtles at
> the site (only the ones likely to stick around the site or return, or
> replacing old acoustic tags on turtles with new ones) may become more of a
> feasible idea. Plus, since the tags would last so long, we could
> potentially do another full year of the study.
>
> The last thing to discuss is how often we would attempt to capture turtles.
> As the memory of the TDRs lasts about 30 days, it would be great if we could
> have 2 sets of data per season, meaning 2 field capture events per season.
> It would be important to make sure we schedule the events so that the 30 day
> lunar cycle would not span between 2 different seasons (e.g. started at the
> end of spring so that it ends in summer). So, tentatively, this would mean,
> in a realistic situation:
> - spring 2010 (March 18 - June 18): one turtle capture session on March 18
> (DONE!!) and end of April (27 or 29 - these 2 days would work best for me or
> David)
> - summer 2010 (June 18 - Sept 18): one turtle capture session around
> mid-June, and one around early August
> - Fall 2010 (Sept 18 - Dec 18): one turtle capture session in late
> September (and that would be it because the tag batteries would expire
> shortly after this 30 day period ended).
>
> However, if we decide to put more tags on the turtles and extend the study
> for a full year, in the idealized situation:
>
> - Spring and summer from above would be the same
> - Fall 2010 (Sept 18 - Dec 18): one turtle capture session in late
> September, and one in early November
> - Winter 2010-2011 (Dec 18 - March 18): one turtle capture session in late
> December or early January, and one in mid-February.
> - Then finally, there would be a session after March 18 to attempt to get
> all tags back.
>
> If this seems like it would be too many times (a total of 9 in the course of
> 1 year, which includes getting the tags back at the end, and one of which
> we've already done), then we could easily do one session per season instead
> of 2, reducing the total number of events to 5 in one year (includes the one
> we've already done, as well as the final one to get the tags back).
>
> So, if you, George and Stacy, could let David and me know your opinion about
> attaching more acoustic tags to turtles (to extend the study past 8 months
> when the batteries run out), and how many sessions you'd be willing to do
> based on the above schedule, that would be great! If you have any
> questions, feel free to e-mail me (devon.francke@gmail.com) or call me
> (651-235-8023) any time! Thank you so much for your help!
>
> Devon Francke
>
>
>
>
>
> On Thu, Apr 15, 2010 at 9:21 AM, George H. Balazs <
> gbalazs@honlab.nmfs.hawaii.edu> wrote:
>
> > I will now contact MWP and ask if Tuesday or Thursday are best for him/his
> > family.

Preliminary analysis of Juvenile Green Sea Turtle TDRs data April 27, 2010 – Devon Francke

1) PERFORMANCE OF THE TAGS: One of the four tags (L150A-0190, 15 – second interval, turtle #2) malfunctioned half-way (50.1%, 16 days) through the deployment, evidenced as an abrupt step-like increase in depth (~ 8 dbars, 8 m) and a progressive increasing drift in the pressure values (Table 1). No diel cycles in depth are apparent for this turtle, when the entire deployment is considered (Figure 1). Yet, it is noteworthy that there was no similar signal n in the temperature data, suggesting that damage to the pressure sensor may be the culprit (Table 1).

An air test of the malfunctioning tag (L150A-0190), which involved running the device for 5 minutes on a 15-second interval, yielded pressure readings of 65 dbars (6.5 m). We will return the tag to the manufacturer for servicing / replacement.

WHAT DID MANUFACTURER SAY?

Table 1. Comparison of data from the malfunctioning TDR, during the entire 33-day deployment ("all data") and the 16-day period before the malfunction ("good data", 16 day period).

	good data	all data
Total # records	96466	192316
Max depth (m)	4.2	13.5
Average depth (m)	1.3	4.3
Median depth (m)	1.5	2.6
Max temp (deg C)	32.1	32.1
Min temp (deg C)	22.0	21.2
Average temp (deg C)	24.6	24.5
Median temp (deg C)	24.1	24.1

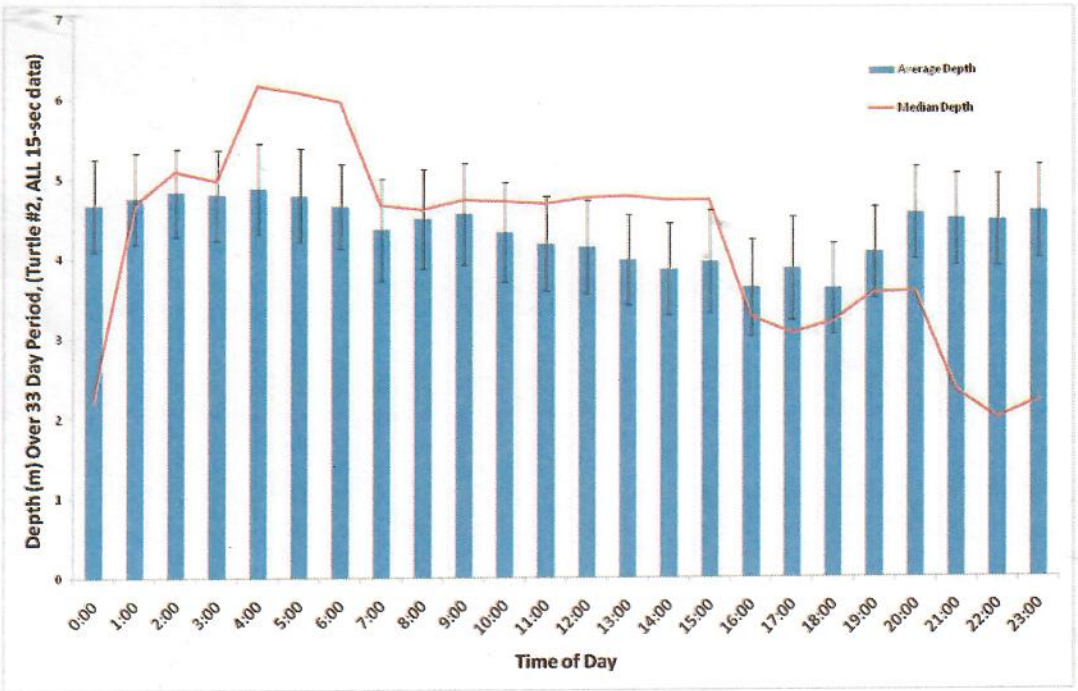

Figure 1. Average and median depth as a function of time of day (hourly) for turtle #2 (TDR # L150A-0190) over a 33 day period.

Note: Depth sensor malfunction in day 16.

2) TURTLE DIVING BEHAVIOR: Deeper dives occurred during night than during day, which suggests the turtles enter the cove at night for resting where the water is slightly deeper, and forage during the day in the shallower cove or bay area. This is the case for both turtles, but only when the good data is analyzed for turtle #2 (up to day 16). For turtle #16 (TDR # L150A-0189), the median and average values do not quite match up, suggesting there may have been some nights where the turtle rested in areas other than the cove which were a bit deeper. Matching the data with the acoustic tags for those time periods will confirm/disprove this.

Table 2. Summary of data from four TDRs, deployed on two turtles and sampling at 1-second or 15-second resolutions. Note that for device L150A-0190, the data span only 16 days before tag malfunction.

	L150A-0191	L150A-0190	L150A-0188	L150A-0189
Turtle MT #	2	2	16	16
Acoustic Tag ID #	52534	52534	52532	52532
Sampling Interval (sec)	1	15	1	15
Total # records	192316	96466	192316	192316
Max depth (m)	1.8	4.2	2.3	13.0
Average depth (m)	0.6	1.3	0.7	1.3
Median depth (m)	0.9	1.5	0.7	0.5
Max temp (deg C)	30.63	32.1	34.9	32.3
Min temp (deg C)	21.9	22.0	21.7	20.8
Average temp (deg C)	23.6	24.6	24.6	24.5008846
Median temp (deg C)	23.2	24.1	23.9	24.4

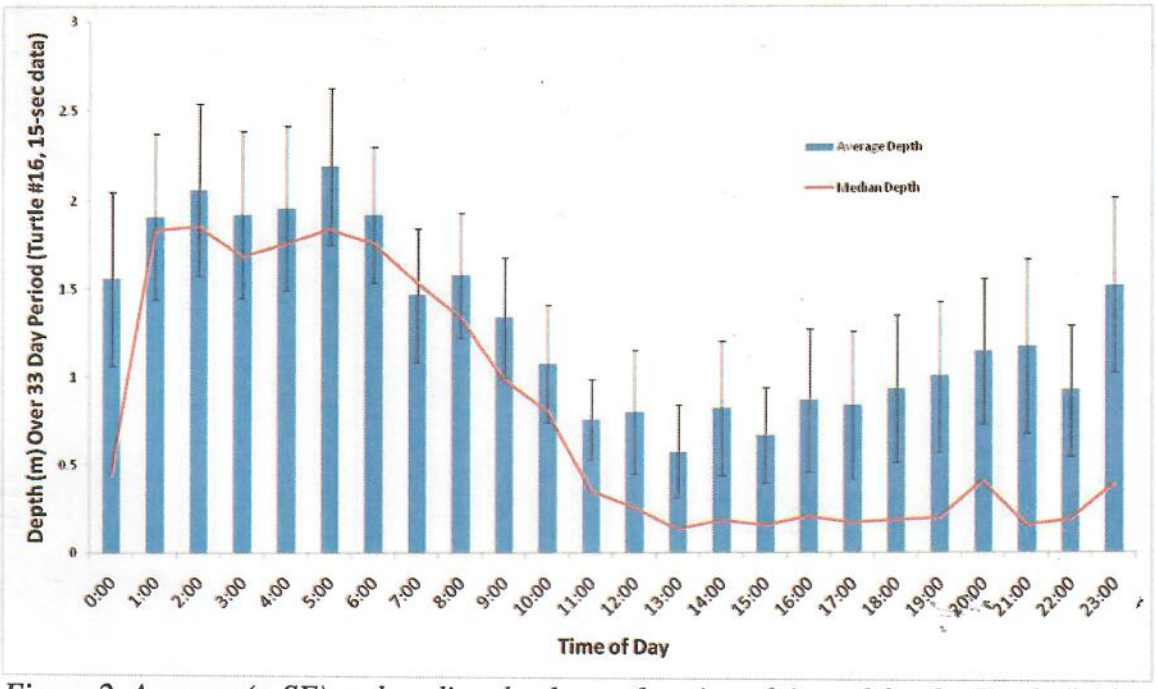

Figure 2. Average (± SE) and median depth as a function of time of day for Turtle # 16 (TDR # L150A-0189) over a 33 day deployment.

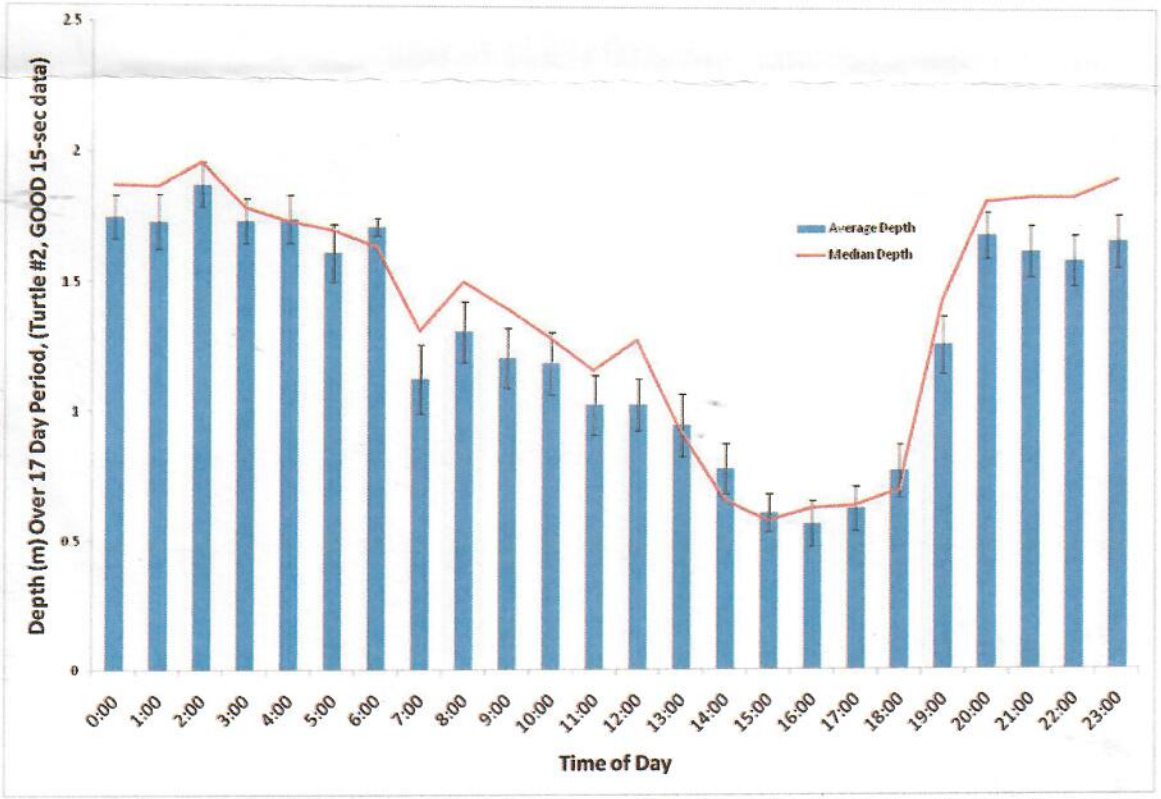

Figure 3. Average (± SE) and median depth as a function of time of day for Turtle #2 (TDR # L150A-0190) over a 16 day deployment, before the pressure sensor malfunctioned.

3) TURTLE DIVING BEHAVIOR WITHIN ACOUSTIC RECEIVER RANGES: Both turtles were recorded in the three habitats monitored acoustically (Cove, Canal, and Bay) during the deployment of the 15-second TDRs (Table 2), providing spatially-explicit diving and water temperature information for the three habitats considered in this study.

Table 3. Summary of spatial overlap between TDR data and acoustic receiver detections (2 minute transmission rate) in three locations: Cove, canal bend (around the corner), and Kailua Bay (Bay; approximately 200 m from shore offshore from the cove). For TDR # L150A-0190, only the "good data" before the sensor malfunction is recorded (16 days).

Turtle MT #	TDR Sampling Rate (sec)	TDR #	Turtle acoustic tag ID #	Cove	Canal	Bay
2	1	L150A-0191	52534	679	0	4
2	15	L150A-0190	52534	2333	147	56
16	1	L150A-0188	52532	54	272	61
16	15	L150A-0189	52532	704	5331	267

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NATIONAL MARINE FISHERIES SERVICE
Pacific Islands Fisheries Science Center
2570 Dole St. • Honolulu, Hawaii 96822-2396
(808)983-5733 • Fax: (808)983-2902

FAXED FAXED

MEMORANDUM FOR: DOCARE Oahu 6/29/2010
NMFS-LE

FROM: George H. Balazs, cell 286-2899
Leader, Marine Turtle Research Program
Telephone: (808) 983-5733
Fax: (808) 983-2902

SUBJECT: Notification of intended research involving capture and tagging of sea turtles

From (date) JULY 1, 2010 (time) 9AM to
(date) Thursday only (time) 4PM.

I will be conducting capture, tagging, and related research activities of sea turtles at KAWAINUI/KAILUA BAY Oahu. These activities are authorized under Federal Fish and Wildlife Permit TE-739350-3, 50CFR 17.31(b), 50CFR 17.22, State of Hawaii Special Activity Permit SAP 2008-95, and Permit No. 1581.

X Research activities will be conducted from shore by snorkeling ~~and/or scuba~~ diving to hand-capture turtles. and SCOOP NETS

____ Research activities will be conducted from shore using a closely monitored tangle net to capture turtles.

____ Research activities will be conducted using a bullpen net.

____ Research activities will be conducted from a boat by snorkeling and/or scuba diving to hand capture turtles. The boat's identification number, name, and description are as follows:

____ Research activities will involve turtles basking ashore.

NOAA SIGNS WILL BE DISPLAYED.

FAX:

DOCARE-OAHU	453-6789
NMFS-LE	541-3166
DOCARE-HILO	(808) 974-6222
DOCARE-KONA	(808) 327-4963
DOCARE-WAIMEA	(808) 887-6199
DOCARE-MAUI	(808) 984-8111
DOCARE-MOLOKAI	(808) 553-3951

Skippy Hau	(808) 243-5833
Marc Rice	(808) 881-4003
Sallie Beavers	(808) 329-2597

* * * Communication Result Report (Jun. 29. 2010 12:59PM) * * *

1)
2)

Date/Time: Jun. 29. 2010 12:58PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
0606	Memory TX	94536789	P. 1	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

FAXED

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___ Research activities will be conducted from shore using a closely monitored tangle net to capture turtles.

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___ Research activities will be conducted from a boat by snorkeling and/or scuba diving to hand capture turtles. The boat's identification number, name, and description are as follows:

___ Research activities will involve turtles basking ashore.

NOAA SIGNS WILL BE DISPLAYED.

* * * Communication Result Report (Jun. 29. 2010 1:00PM) * * *

1)
2)

Date/Time: Jun. 29. 2010 12:58PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
0607	Memory TX	95413166	P. 1	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

FAXED 6/29/2010

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NOAA SIGNS WILL BE DISPLAYED.

TURTLEID	NS_DATE	NS_SITE	RECOVERY	NEW_TAGS	SCL	CCL	WEIGHT	TUMORS	TUMSCR
407A3A1622	2/18/2009	KAWAINUI	Y	Y	57.3	62	54.1	N	0
45275F037D	2/18/2009	KAWAINUI	N	Y	52.2	57	67.1	N	0
452615281A	2/18/2009	KAWAINUI	N	Y	48.3	52	35.1	N	0
460806153C	2/18/2009	KAWAINUI	Y	Y	50.6	53.5	37.1	N	0
443A1C2318	2/18/2009	KAWAINUI	N	Y	49.2	53	34.6	N	0
422F0B6F62	2/18/2009	KAWAINUI	Y	N	61.8	66.5	68.1	N	0
44397C3B45	2/18/2009	KAWAINUI	Y	N	66	72	81.5	N	0
423F331D58	2/18/2009	KAWAINUI	Y	Y	62.9	68	75.5	N	0
45285D1A44	2/18/2009	KAWAINUI	N	Y	54.2	58	40.5	N	0
46016A0A4A	2/18/2009	KAWAINUI	Y	N	49.3	52.5	28	N	0
46016E3B18	2/18/2009	KAWAINUI	Y	N	56.3	61	53	N	0
44522B6171	5/14/2009	KAWAINUI	Y	N	52.8	57	42	N	0
46016A0A4A	5/14/2009	KAWAINUI	Y	N	49.1	52	31.5	N	0
443A197133	5/14/2009	KAWAINUI	Y	N	52.3	56.5	35	Y	1
407A3A1622	5/14/2009	KAWAINUI	Y	N	57	62	56.5	N	0
422F0B6F62	5/14/2009	KAWAINUI	Y	N	61.4	66	68.6	N	0
443A1C2318	5/14/2009	KAWAINUI	Y	N	48.9		35.5	N	0
4601794F15	5/14/2009	KAWAINUI	Y	N	56	60	55	N	0
44523B620A	5/14/2009	KAWAINUI	Y	N	53.4	57.5	47.5	N	0
4524247D3C	5/14/2009	KAWAINUI	N	Y	55.6	59	52	N	0
413522604F	8/7/2009	KAWAINUI	Y	N	60.3	64.5	63	N	0
460806153C	8/7/2009	KAWAINUI	Y	N	50.7	54	44	N	0
423F1F0221	8/7/2009	KAWAINUI	Y	N	52	55.5	48	N	0
500C4B7C2E	8/7/2009	KAWAINUI	Y	N	61.4	65.5	67.9	N	0
443A197133	8/7/2009	KAWAINUI	Y	N	52.6	57	42.5	N	1
4A355B323E	8/7/2009	KAWAINUI	N	Y	48.7	52	35	N	0
44523B620A	8/7/2009	KAWAINUI	Y	N	53.4	57	49	N	0
407A3A1622	8/7/2009	KAWAINUI	Y	N	57	61.5	55	N	0
4601794F15	8/7/2009	KAWAINUI	Y	N	56	60.5	54.5	N	0
41356C0551	8/7/2009	KAWAINUI	Y	N	57.7	61.5	61.4	N	0
4608073D6D	8/7/2009	KAWAINUI	Y	N	54.6	59.5	48	N	0
4608021627	8/7/2009	KAWAINUI	Y	N	49.5	53	35.5	N	0
4A2E09105C	8/7/2009	KAWAINUI	N	Y	57.3	61.5	59.5	N	0
4601787B66	8/7/2009	KAWAINUI	Y	N	47.1	51	33.9	N	0
422F0B6F62	8/7/2009	KAWAINUI	Y	N	61.6	65.5	70.4	N	0
443A01721F	8/7/2009	KAWAINUI	Y	N	58	62	45.9	N	0
424F7A7E1B	8/7/2009	KAWAINUI	Y	N	54.4	57.5	49	N	0
46016A0A4A	3/18/2010	KAWAINUI	Y	N	50.4	54	35.5	N	0
44127C691C	3/18/2010	KAWAINUI	Y	N	53	57	42.5	N	0
500C4B7C2E	3/18/2010	KAWAINUI	Y	N	62.5	66	68.5	N	0
44397C3B45	3/18/2010	KAWAINUI	Y	N	67	72.5	86.5	N	0
457C69201F	3/18/2010	KAWAINUI	Y	N	62.7	69	72.5	N	0
4608021627	3/18/2010	KAWAINUI	Y	N	50.3	54	39	N	0

TURTLEID	NS_DATE	NS_SITE	RECOVERY	NEW_TAGS	SCL	CCL	WEIGHT	TUMORS	TUMSCR
424E260A37	3/18/2010	KAWAINUI	Y	N	58	62	57.5	N	0
407A3A1622	3/18/2010	KAWAINUI	Y	N	58.2	63	58	N	0
443A197133	3/18/2010	KAWAINUI	Y	N	53	57	43	Y	1
44522B6171	3/18/2010	KAWAINUI	Y	N	54.3	58	44.5	N	0
422F0B6F62	3/18/2010	KAWAINUI	Y	N	62.2	66.5	72.5	N	0
470C676D20	3/18/2010	KAWAINUI	N	Y	44.4	47.5	26	N	0
470B1F572D	3/18/2010	KAWAINUI	N	Y	49.3	53	38	N	0
467D323920	3/18/2010	KAWAINUI	N	Y	59.1	64	63	N	0
470A58172E	3/18/2010	KAWAINUI	N	Y	58.2	62.5	58.5	Y	1
470C283E79	3/18/2010	KAWAINUI	N	Y	51.1	54.5	42	N	0
443A07695B	3/18/2010	KAWAINUI	Y	N	66.8	70.5	110.5	N	0
46016E3B18	3/18/2010	KAWAINUI	Y	N	56.4	60.5	51.5	N	0
470A464779	3/18/2010	KAWAINUI	N	Y	51	55	41.5	N	0
422F0B6F62	4/27/2010	KAWAINUI	Y	N	62.1		71.6	N	0
44523B620A	4/27/2010	KAWAINUI	Y	N	53.4	58	52	N	0
48513F0365	4/27/2010	KAWAINUI	N	Y	47.2	50.5	32	N	0
4856491A40	4/27/2010	KAWAINUI	N	Y	53	57.5	47	N	0
4841542D7A	4/27/2010	KAWAINUI	N	Y	48.3	52	36	N	0
423F1F0221	4/27/2010	KAWAINUI	Y	N	52.4	56.5	51.5	N	0
44522B6171	4/27/2010	KAWAINUI	Y	N	54.1	58	46	N	0
424E260A37	4/27/2010	KAWAINUI	Y	N	57.6		57.5	N	0
46016E3B18	4/27/2010	KAWAINUI	Y	N	56.5	60.5	53.5	N	0
443A197133	4/27/2010	KAWAINUI	Y	N	53.1	57	42	Y	1
4A355B323E	4/27/2010	KAWAINUI	Y	N	49.4	52.5	40.5	N	0
48520D1D7C	4/27/2010	KAWAINUI	N	Y	51.5	54	41.5	N	0
48533A2309	4/27/2010	KAWAINUI	N	Y	44.8	48	28.5	N	0
4853422344	4/27/2010	KAWAINUI	N	Y	52.1	56	44.5	N	0
44127C691C	4/27/2010	KAWAINUI	Y	N	53.1	56	45	N	0
424D7F6907	4/27/2010	KAWAINUI	Y	N	61.4	65.5	69.5	N	0

Tagging Summary from Kawainui Canal during 1/1/2000 - 3/15/2010

Tag Numbers	Date	Carapace Length (cm)		Weight (lbs)	Capture Method
		Straight	Curved		
41350B3711, 41362A6F40	03/17/2000	47.8	51.0	31.0	Hand/Snorkel
41350F714A, 41362A6D74	03/17/2000	55.7	59.5	48.0	Hand/Snorkel
4135103343, 4136381C58	03/17/2000	59.9	65.0	68.0	Net
413519225D, 413E0C3654	03/17/2000	47.5	51.0	32.0	Net
413522604F, 413706517D	03/17/2000	47.0	50.5	24.0	Hand/Snorkel
41356C0551, 4136267723	03/17/2000	44.0	47.5	26.0	Net
4135787535, 4136282B44	03/17/2000	47.0	50.5	26.0	Scoop Net
41357A6136, 413629562B	03/17/2000	41.4	44.0	21.0	Hand/Snorkel
4136001511, 413617E87E	03/17/2000	49.2	52.5	40.0	Scoop Net
4136081368, 41360D4143	03/17/2000	60.9	66.0	77.0	Net
413614392E, 413D771E3C	03/17/2000	55.2	58.5	48.0	Scoop Net
410379430C, 500F21393B	04/14/2000	56.1	60.0	55.0	Scoop Net
410410664C, 502E631929	04/14/2000	56.5	60.0	48.0	Hand/Snorkel
41357A7148, 41362B485A	04/14/2000	44.7	46.5	26.0	Hand/Snorkel
407A316218, 4136075868	04/14/2000	57.0	60.5	52.0	Hand/Snorkel
407742365E, 4136205923	04/14/2000	63.2	67.0	73.0	Hand/Snorkel
407D080A53, 413E412430	04/14/2000	---	---	40.0	Scoop Net
407D234B3A, 5019493246	04/14/2000	57.3	61.0	46.0	Scoop Net
500E0B076D, 500F1B706C	06/07/2000	48.4	52.5	38.0	Scoop Net
500E0E3708, 5019491548	06/07/2000	56.5	60.0	49.0	Scoop Net
500E0F1131, 500F223E45	06/07/2000	48.5	52.0	39.0	Hand/Snorkel
500E393A73, 502E4F0369	06/07/2000	49.3	52.5	32.0	Scoop Net
500F173660, 5019470429	06/07/2000	56.2	60.0	55.0	Scoop Net
500F201C15, 502E55272C	06/07/2000	47.0	49.5	30.0	Hand/Snorkel
500F225263, 500F2E7415	06/07/2000	56.8	61.5	58.0	Scoop Net
500F277741, 5019440F0B	06/07/2000	54.0	58.0	48.0	Scoop Net
501910620F, 502E4E082C	06/07/2000	55.3	59.0	42.0	Scoop Net
502E222270, 502F052B19	06/07/2000	53.0	57.0	51.0	Scoop Net
502E562F19, 502E7B4549	06/07/2000	48.2	52.0	39.0	Hand/Snorkel

Tagging Summary from Kawainui Canal during 1/1/2000 - 3/15/2010

Tag Numbers	Date	Carapace Length (cm)		Weight (lbs)	Capture Method
		Straight	Curved		
502D78036D, 502E78036D, 502E7B712E	06/07/2000	73.1	78.5	---	Basking
423B2B445D, 423F596251	03/27/2001	61.2	65.5	60.0	Hand/Snorkel
4243257D7F, 424D736500	03/27/2001	56.3	58.0	47.0	Hand/Snorkel
424D703E25, 42505E200C	03/27/2001	45.3	47.0	23.0	Hand/Snorkel
424D7F6907, 424F236C1F, SON1060763 (10/30/2008)	03/27/2001	49.0	52.0	34.0	Hand/Snorkel
424F337D2E, 42500C5478	03/27/2001	50.8	55.0	42.0	Hand/Snorkel
4250001B11, 425021011E	03/27/2001	41.9	44.0	23.0	Hand/Snorkel
424E682401, 424F0A5470	03/29/2001	46.0	49.5	28.2	Hand/Snorkel
423D711175, 423F4E1A00	04/10/2001	59.0	62.5	63.0	Hand/Snorkel
423E060D21, 424F0C683A	04/10/2001	53.9	57.5	45.0	Hand/Snorkel
423E08313C, 423E102E32	04/10/2001	44.3	47.0	25.0	Hand/Snorkel
424B3B3F68, 425036786C	04/10/2001	62.9	67.5	64.0	Basking
423D6D0B4E, 42500B1E0C	04/23/2001	66.1	71.0	75.0	Hand/Snorkel
423F331D58, 424E192B44, SON1066541 (2/18/2009)	04/23/2001	51.4	54.5	39.0	Hand/Snorkel
424E267041, 424F244E57	04/23/2001	39.9	41.6	19.0	Hand/Snorkel
424F205574, 424F394711	04/23/2001	58.5	62.5	61.0	Hand/Snorkel
4250184D03, 42502F2967	04/23/2001	51.5	55.4	32.0	Hand/Snorkel
41356A7124, 4250193B3D	05/14/2001	62.0	67.0	75.0	Hand/Snorkel
500E1C1623, 500E20056A	05/14/2001	65.4	70.5	70.0	Hand/Snorkel
500E3E541E, 500F30093E	05/14/2001	72.2	77.0	96.0	Hand/Snorkel
423A1F367E, 424F2D2B57	06/20/2001	56.8	62.0	60.0	Hand/Snorkel
424326331D, 4250286842	06/20/2001	36.8	39.0	15.0	Hand/Snorkel
424E44567D	06/20/2001	44.9	48.0	20.0	Hand/Snorkel
423A267528, 424F7C6E0E	08/16/2001	41.8	45.0	27.0	Scoop Net
423D655D30, 424E58630E, 442C4E5D13 (9/5/2006), 442F64643F (9/5/2006)	08/16/2001	56.3	60.0	45.0	Scoop Net
423E047A4F, 42501D2E76	08/16/2001	48.4	52.0	37.0	Scoop Net
423E102674, 42502E6E07	08/16/2001	63.4	69.0	84.0	Scoop Net

Tagging Summary from Kawainui Canal during 1/1/2000 - 3/15/2010

Tag Numbers	Date	Carapace Length (cm)		Weight (lbs)	Capture Method
		Straight	Curved		
423F22193A, 4250241441	08/16/2001	47.5	50.0	30.0	Scoop Net
423F260E45, 424F350878	08/16/2001	58.5	64.0	67.0	Scoop Net
423F4A262D, 4250124B1D	08/16/2001	38.9	42.5	18.0	Scoop Net
424D462100, 424F7D6D0D	08/16/2001	45.9	49.0	28.0	Scoop Net
422D6D0500 (12/29/2001), 4236065D2C (12/29/2001)	08/29/2001	53.7	58.0	49.0	Scoop Net
422F0B6F62 (12/29/2001), 42346E2D7E (12/29/2001), SON1060451 (10/30/2008)	08/29/2001	49.6	53.0	38.0	Scoop Net
42363E5368 (12/29/2001), 4236540329 (12/29/2001)	08/29/2001	50.9	55.0	41.0	Scoop Net
422F12724C (12/29/2001), 422F182455 (12/29/2001)	08/31/2001	54.1	58.5	48.1	Scoop Net
423D62416D, 424E551052	09/09/2002	48.2	51.5	---	Scoop Net
4243312253, 425032434C	09/09/2002	55.5	59.5	53.0	Scoop Net
424E7D3E79, 4250014053	09/09/2002	49.5	52.0	34.4	Scoop Net
424F7A7E1B, 424F7D5536	09/09/2002	44.7	47.0	26.0	Scoop Net
422F11212F, 4233500A78	10/02/2002	56.1	60.5	46.5	KRF Captive
422D744378, 424F282309	10/14/2002	40.0	43.0	21.0	Hand/Snorkel
423B307834, 4250253456	10/14/2002	69.3	75.0	93.0	Hand/Snorkel
423C13217D, 424D1E1F4F	10/14/2002	43.6	45.5	26.0	Hand/Snorkel
423D674056 (12/14/2002), 424F794467 (12/14/2002)	10/14/2002	75.9	80.5	110.0	Hand/Snorkel
423F1F0221, 4250012F62	10/14/2002	42.6	45.5	28.0	Hand/Snorkel
424E260A37, 424E633275, SON1060449 (10/29/2008)	10/14/2002	50.7	53.5	38.0	Hand/Snorkel
433C6F1418, 435977636D	01/23/2003	51.2	54.0	45.0	Hand/Snorkel
433D576E26, 43521B5C3A	01/23/2003	43.7	46.0	27.0	Scoop Net
43475C1405, 4349341712	01/23/2003	55.3	58.0	54.0	Scoop Net
434F494D19, 434F666563	01/23/2003	47.4	51.0	34.0	Scoop Net
4350347D52, 43674B0001	01/23/2003	63.6	67.5	83.0	Hand/Snorkel
4135142D59, 41363A0633	01/24/2003	62.8	69.0	75.0	Scoop Net
41352E0379, 413E2A1F4E	01/24/2003	56.7	61.0	55.0	Scoop Net

Tagging Summary from Kawainui Canal during 1/1/2000 - 3/15/2010

Tag Numbers	Date	Carapace Length (cm)		Weight (lbs)	Capture Method
		Straight	Curved		
4135662756, 41371A1224	01/24/2003	44.1	47.5	27.0	Scoop Net
413E4B3147, 500F245E54	01/24/2003	50.6	53.0	40.0	Scoop Net
41360F6A76, 501953310D	08/11/2003	57.7	62.5	62.0	Scoop Net
422D4F7A3F, 422F021763	08/11/2003	58.6	62.5	66.0	Scoop Net
443A01721F, 445235291E	08/11/2003	53.5	57.0	47.0	Scoop Net
443A07695B, 44523C0615	08/11/2003	60.3	64.0	79.0	Scoop Net
44523B620A, 445258695E	08/11/2003	41.8	45.0	26.0	Scoop Net
460209356A (6/11/2008), 500C4B7C2E, 500E054940	08/11/2003	58.0	62.0	60.0	Scoop Net
500E103813, 502E4B6705	08/11/2003	59.7	64.5	73.0	Scoop Net
5019236956, 5019570B0E	08/11/2003	49.1	53.5	37.0	Scoop Net
423464480D, 4237626C6C	08/12/2003	52.1	57.0	48.0	Scoop Net
44397F147E, 445207564D	08/12/2003	59.1	63.5	62.0	Scoop Net
443A197133, 4452745129	08/12/2003	42.4	46.0	23.0	Scoop Net
44517E1050, 445238604D	08/12/2003	52.5	56.0	50.0	Scoop Net
4452320D78, 44526A2444	08/12/2003	40.5	43.0	22.0	Scoop Net
4452712301, 44545B4905	08/12/2003	60.2	66.5	70.0	Scoop Net
4601787B66, 46076C4E69	11/28/2005	42.6	46.0	24.7	Scoop Net
46017A5344, 4607574B0F	11/28/2005	48.7	52.5	30.3	Hand/Snorkel
4602036C38, 4608091437	11/28/2005	44.9	48.0	28.4	Hand/Snorkel
46075D2C48, 4607631F65	11/28/2005	59.9	64.5	63.4	Scoop Net
443A24072D, 44546A6622	01/14/2008	49.5	52.5	35.0	Hand
4451520141, 4452047B42	01/14/2008	51.4	55.0	40.0	Hand
44397C514D, 4452052123, SON1059582 (10/29/2008)	01/14/2008	53.6	59.0	46.5	Net
443A2B5536, 44521C0B7D	01/14/2008	53.8	57.0	51.5	Net
4439725052, 44546D2D75, SON1059581 (10/29/2008)	01/14/2008	46.6	50.0	31.5	Net
443A0D3B58, 4452305B36	06/11/2008	54.5	59.0	51.3	Scoop Net
445262346D, 4452635A6B	06/11/2008	43.5	47.0	26.8	Scoop Net
4454056D2D, 4601794F15	06/11/2008	54.7	59.0	55.3	Scoop Net

Tagging Summary from Kawainui Canal during 1/1/2000 - 3/15/2010

Tag Numbers	Date	Carapace Length (cm)		Weight (lbs)	Capture Method
		Straight	Curved		
460214212D, 460219745C	06/11/2008	60.9	65.0	68.3	Scoop Net
460201524A, 4602361966	06/11/2008	46.9	50.5	34.3	Scoop Net
4603686F19, 4608091E45	06/11/2008	52.1	55.5	45.3	Scoop Net
44397C3B45, 443A256B1F, SON1060450 (10/29/2008)	07/28/2008	65.7	72.0	84.5	Scoop Net
44522B6171, 44525C5169	07/28/2008	51.7	56.0	41.0	Scoop Net
4452396560, 44526B1B66	07/28/2008	51.1	56.5	46.0	Scoop Net
443A1F5F33, 44522F5439	07/31/2008	52.5	56.5	39.3	Stranded
457C69201F, 46017E5C03	10/29/2008	62.0	68.0	62.5	Scoop Net
4601705479, 46024D7164	10/29/2008	51.1	54.5	38.0	Scoop Net
4608021627, 46080C5929	10/29/2008	49.0	53.0	36.5	Scoop Net
4602002640, 460806153C, SON1066533 (2/18/2009)	10/29/2008	50.7	54.0	38.5	Hand/Snorkel
460173182F, 4608073D6D	10/29/2008	54.6	59.5	50.0	Scoop Net
4601643E11, 4608145B26	10/29/2008	50.2	54.5	41.0	Scoop Net
46016A0A4A, 4602193F74	10/30/2008	49.3	52.5	28.5	Scoop Net
4601684860, 46016E3B18	10/30/2008	56.3	60.5	56.0	Scoop Net
443A15535F, 443A1C2318, SON1066535	02/18/2009	49.2	53.0	34.6	Scoop Net
452575711D, 452615281A, SON1066534	02/18/2009	48.3	52.0	35.1	Scoop Net
45275F037D, 4529400D70, SON1066543	02/18/2009	52.2	57.0	67.1	Scoop Net
45242A3628, 45285D1A44	02/18/2009	54.2	58.0	40.5	Scoop Net
4524247D3C, 4A41464E15	05/14/2009	55.6	59.0	52.0	Hand/Snorkel
4A2E09105C, 4A2E7F5931	08/07/2009	57.3	61.5	59.5	Scoop Net
470C26621E, 4A355B323E	08/07/2009	48.7	52.0	35.0	Hand/Snorkel