

808-395-6409

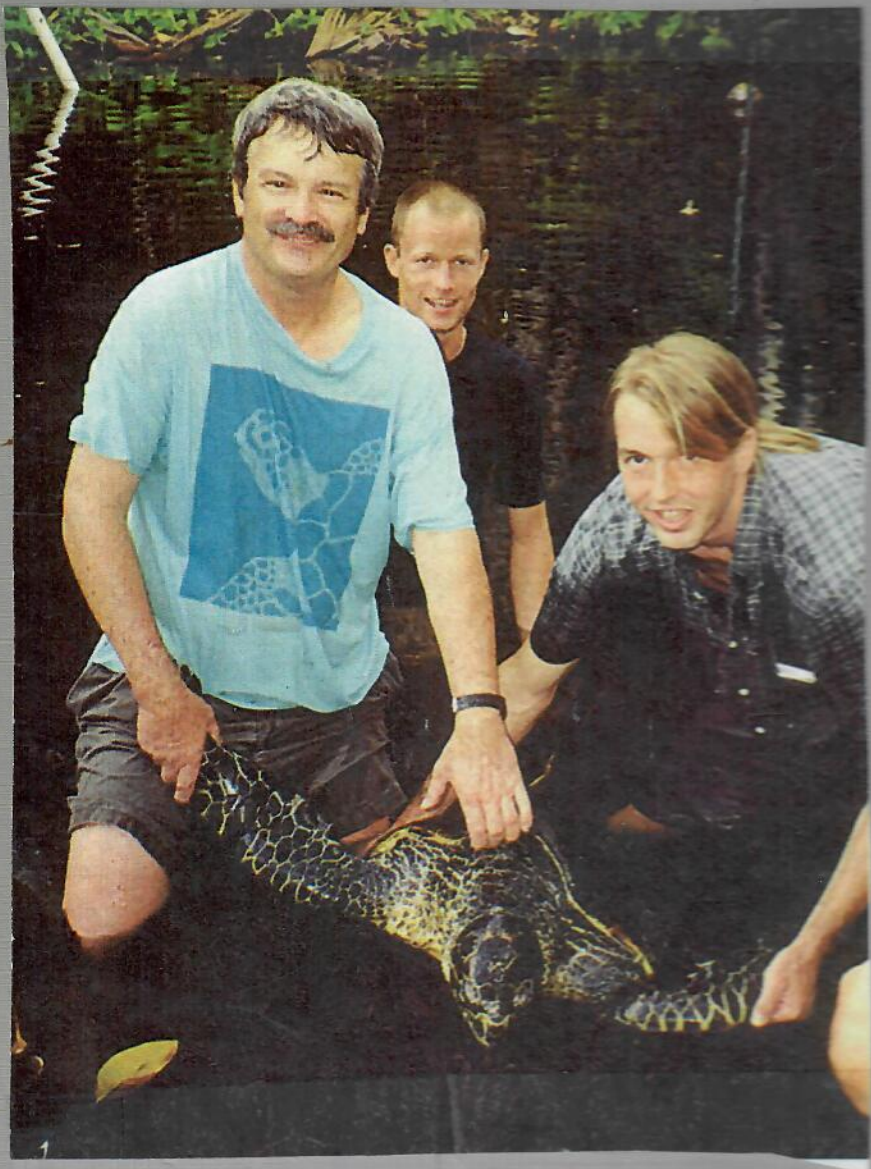
BALAZS -

KAMEHAMEHA
Book II

27-30 AUGUST 96 (2 ST-145)

9-11 JULY 2000





TUES. FRIDAY Page 5-17
27-30 AUGUST 1996 KAMEHAME

Deploy 2 ST-14 3/3 Tygon full length
w/TELONICS RADIO TRANSMITTERS

Biop97 25695 ID page 6 ^{ovi post} 8/29/96 HST 835am
 CCL=90cm SCL=85.3 Released 148.1520MHz
 Existing B565 B566

Biop97 24191 ID page 7 ^{ovi post} 8/30/96 HST 825am
 CCL=88.5 SCL=82.4 (RH 1/4 MISSING & HEALED) New 8570
 Existing B706 R109

LAST year's MIGRATION MAPS = p. 114-115

1998 Page 18 - Recovery of ID 22134 sys, 9487
KAMEHAME

1998 Data Loggers p. 82



Larry Katakira cell 936-7283
HILB DOCAE 974-6208

Composition Book • 9 3/4 in. x 7 1/2 in.

Available As:

Item No.	Sheets	Ruling
09-9130	60	College Ruled & Margin
09-9132	60	College Ruled & Margin & Paged
09-9134	100	College Ruled & Margin

ESSELTE

Esselte Pendaflex Corporation, Garden City, NY 11530
Made in U.S.A. B&P and Boorum & Pease are trademarks of
Esselte Pendaflex Corporation.

9- JULY 2000 KAMEHAME
P. 88

19° 8.832' N → KAMEHAME GPS
155° 28.227' W

HVNP Turtle "Hotline" volunteers 967-8012
cellular kamehame - 936-7065
Larry's personal cellular = 936-7016
Volunteer Cell. phone 967-8121-ANN

- ~~WGG~~ WGG cellular 895-0393

Danna Daniel = 985-8570
Charlotte Forbes = 967-8520

CLS = Collecte Localisation,
Satellites,

~~ST14~~ ~~Temp Conversion = 256 then~~
~~fit to graph.~~ NO Readdress on graph

**Hobo temperature loggers sent to Larry Katahira for
deployment at Kamehame and Apua**

(Started 6/2/98 for 150 days)

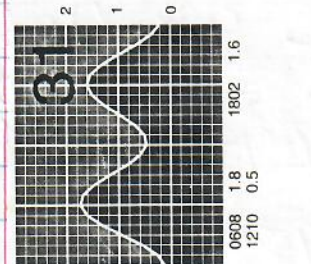
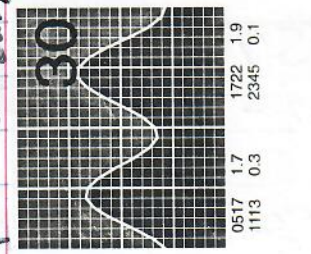
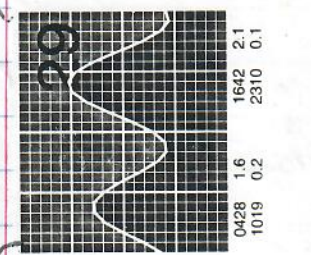
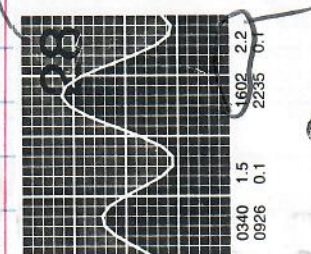
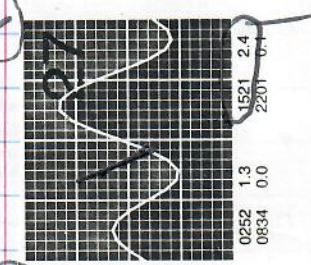
<u>ID on Logger</u>	<u>S/N number</u>	<u>ID on tape</u>
T2 FFS#6	17470	Kamehame 1
T1 FFS#4	17468	Kamehame 2
E1 FFS#2	16592	Kamehame 3

AUGUST 96

SL = 85.3
 SL = 2 Astoria
 CCL = 90
 1 = 25695
 Night 2

2 Astoria SCL Trashed
 1 = 775cm SCL NEW ~ 4 nights ASO
 Night 1 = 2491 (False nested from night 2)
 3
 SCL = 82.4
 CCL = 88.5

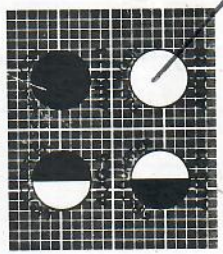
25 26
 Astoria
 Novekano



Basic tide prediction is for Honolulu Harbor
 0000 is midnight, 1200 is noon. Heights
 and height. Differences are for Low Water

PLACES	H	M	A	S
Hilo, Hawaii	-0	59	-01	
Honolulu, Hawaii	-0	16	-01	
Kaunaloa, Hawaii	-0	22	00	
Kaunaloa, Hawaii	-0	03	00	
Kaunaloa Bay, Hawaii	-0	12	00	
Mahukona, Hawaii	-0	17	00	

WEDNESDAY
 6AM NOON 6PM



8/28 = 16 DAYS

3

UPDATE ON RECENT HAWKSBILL TURTLE NESTINGS AT KAMEHAME IN 1996

TAG # S	CONFIRMED NEST DATE	ANTICIPATED RENEST (avg 16-21 days from last confirmed nest date)
25895 — B538/B556	8/13/96	8/29 - 9/3 96
B706/R109	8/12	8/28 - 9/2
B714/B713	8/3	8/19 - 8/24
N404/N403	8/6	8/22 - 8/27
R185/R184	8/14 (false nest)	
R159/R158	8/8	8/24 - 8/29
24191 — R785/R189	8/6	8/22 - 8/27
B565/B566	8/12 8/29 NEST 17 DAYS	8/28 - 9/2 / 1996

OPTIONAL FORM 39 (7-90)
FAX TRANSMITTAL # of pages 1
 TO: George Balazs From: Larry Katahira
 Dept: NMFS Phone #
 Fax: 808 943-1290 Fax #
 N59 7549-01-307-7368 5099 101 GENERAL SERVICES ADMINISTRATION

Roz Rapozo
Laura Sasaki
Sean Hayes

Producer
Assistant Producer (smiling gopher & caddy)
Director of Photography (cameraman) KGMB

HAWKSBILL TURTLE FIELD DATA SHEET

DATE:

--	--	--	--	--

(MM.DD.YY)

LOCATION:

--	--	--	--	--	--	--	--	--	--

CAMP OR DAY TRIP
(CIRCLE ONE)

OBSERVERS:
(YOUR FULL NAME FIRST)

- ACTIVITY OBSERVED: (CIRCLE AND MAP ACTIVITY OBSERVED)
- (1) HAWKSBILL NESTED
 - (2) HAWKSBILL FALSE NESTED ONLY
 - (3) HAWKSBILL OBSERVED NO NESTING ATTEMPTS
 - (4) HAWKSBILL TRACKS OBSERVED IN THE MORNING, POSSIBLE NEST
 - (5) HAWKSBILL TRACKS OBSERVED UPON ARRIVAL OF CAMPSITE
 - (6) HATCHLINGS OBSERVED (FILL OUT HATCHLING OBSERVATION FORM)
 - (7) NEST EXCAVATED (FILL OUT HATCHLING FORM)
 - (8) FEMALE DESTROYS OR DIGS UP PART OF AN EXISTING NEST
(RECORD NEST#, # OF EGGS DISTURBED, COLLECT SAMPLES OF DESTROYED EGGS)
 - (9) OTHER ACTIVITY; PLEASE EXPLAIN
 - (10) NO ACTIVITY

RAIN GAUGE READING:

--	--	--	--	--

(INCHES)

RECORD TIMES WHICH TURTLE: (24 HOUR CLOCK)

ARRIVES:	
DIGS EGGPIT:	
LAYS:	
COVERS EGGS:	
ENDS COVERING:	
RETURNS TO OCEAN:	

STD LENGTH:		<small>(CM)</small>
STD WIDTH:		
CURVED LENGTH:		
CURVED WIDTH:		

TAG#S

--	--	--	--	--

LFF
RFF

PREVIOUSLY TAGGED OR TAGS APPLIED
(CIRCLE ONE)

WEATHER CONDITIONS: (TO BE RECORDED ONLY WHEN A TURTLE IS ON THE BEACH OR WHEN HATCHLINGS ARE OBSERVED)
(CIRCLE ONE)

TIDE: (LOW, RISING, FALLING, HIGH)

MOON: (PRESENT OR ABSENT)

RAIN: (0=NONE, 1=MIST, 2=LIGHT DRIZZLE, 3=LIGHT RAIN, 4=HEAVY RAIN)

CLOUDCOVER: (ESTIMATE TO THE NEAREST 10%)

	(RECORD NUMBER CAUGHT, SPECIES, SEX AND TRAP NUMBERS CAUGHT AT)				
PREDATORS:	MONGOOSE	BLACK RAT	POLYRAT	NORWAY RAT	CAT
MALE					
FEMALE					
TOTAL					
TRAP #S					

INCIDENTAL SIGHTINGS: (ie. BATS, MONK SEAL, MIGRATORY BIRDS (SEE HAWAII BIRD BOOK))
(RECORD NUMBER, SPECIES, AND TIME OF SIGHTING)

COMMENTS: (PLEASE CONTINUE ON BACK IF NECESSARY)

8/27/96 Depart Aloha FL:74 3:45 TO HILO
TUES. w/ Marty Carboy & Bill Gilmartin. ^{The Honu Project} Avis Rental -
shopping - TO Resource Management H.V.N.P. Met w/ Larry ^{WATKINS}
ROZ, LAURA & SEAN (AGMB VIDEO)

NIGHT 1

Arrive Kanehame ~ 1030pm
ANN "CHAO-LEI", MONIC ^{volunteer students}
Last turtle ashore here was night
of 8/24 - FALSE crawl - got stuck in
cave and had to be rescued.

Question - Are many of the hatchlings being
rescued by excavation not in need
of rescue?

* Needs - Contact Charlotte Forbes ^{"SHENE" (photo taken)}
Jill Lippert. PANCHITO ~~BRISLEY~~
cut BACK NAUPAKA. FRISTAS

Full moon. No turtles ashore.
No hatchling emergence. Early A.M.
3 men on rock reef mid-bay / -opihi?

8/28/96 Drove up to Pahala Hospital parking
wed. lot ~ 1030 AM.

needs - USE pit traps - TAG HIND FLIPPERS.
- Collect skin for DNA from every turtle (??)
notify - The Honu Project - Maui meeting / Julie Leialoha
Sunrise - Time of data logging
Several greens seen feeding
in bay. Pterocladia noted falling
tides.
4 existing clutches in or near rock
overhang - cave.

continued p. 15

Telonic's # 392597 ~~plaque~~ plate on posterior Telonic's Radio Trans

Turned "ON" - Midnight 0001 8/29/96 ~~Wednesday~~ Thursday

ST-14 Tygon PLATE ON posterior
ID 25695 3/3 TOP Sys. 370078 148.520 MHz

Telonic's Model => 3. X ^{2cm wide} ^{5.7cm long} x 0.8 high cm
Telonic's radio transmitter: Antenna 70° anterior
? — cm High

EXISTING TAGS < CCL 90.0cm SL 85.3
RFL B566 notch 81.5
LFL B565

10 MAEG left - broken out - but still attached. Not a new injury

Video => 8:30 am Release. RAPID BAIT STRIKE TO SEA.

8/29/96 Right shoulder 6mm Biopsy

Thursday Bill monitored with omni antenna and receiver - turtle sighted several times 200-300m off channel entrance at surface. Bill said it made several 20 min dives. Not heard ~ 8 PM same night over 3 hour monitoring. ALSO NOT HEARD THE FOLLOWING MORNING

AFTER release 4 dead but untouched (non) predation by anything - NO ANTS ON THEM found along rock ledge beach-sand interface in front of cave. Lots of hatching TRACKS. - DNA SKIN Biopsy FROM 3

Turned "ON" Midnight 0001 8/30/96

~ 12:30 AM 8/30
to 2:30 AM
RH 1/4 miss healed
EGGS - photos

video

Model = Telonius radio Trans.

PLATE on posterior
372596
148.360 MHz

ST-14 3/3

24191

Tygon To TOP

Sys # 370084A
PLATE on posterior

CCL = 88.5

X 85.0

SCL = 82.4

62.5

EXISTING TAGS

8706 LFL

R109 RFL

Not locked

B570 (New applied by me @ LH)

SKIN Dip. ^{bmm} R. Shoulder - betadine into DMSO

8:25 am release by JW ^{only a few contacts} - turtle ^{would} moved to left?

Deployed

0500

see p. 50

9 AM onset Data Loggers

Near nest # 22 (8/30/96 2419L ovipost)

8/30/96

Friday

To Left of nest # 15

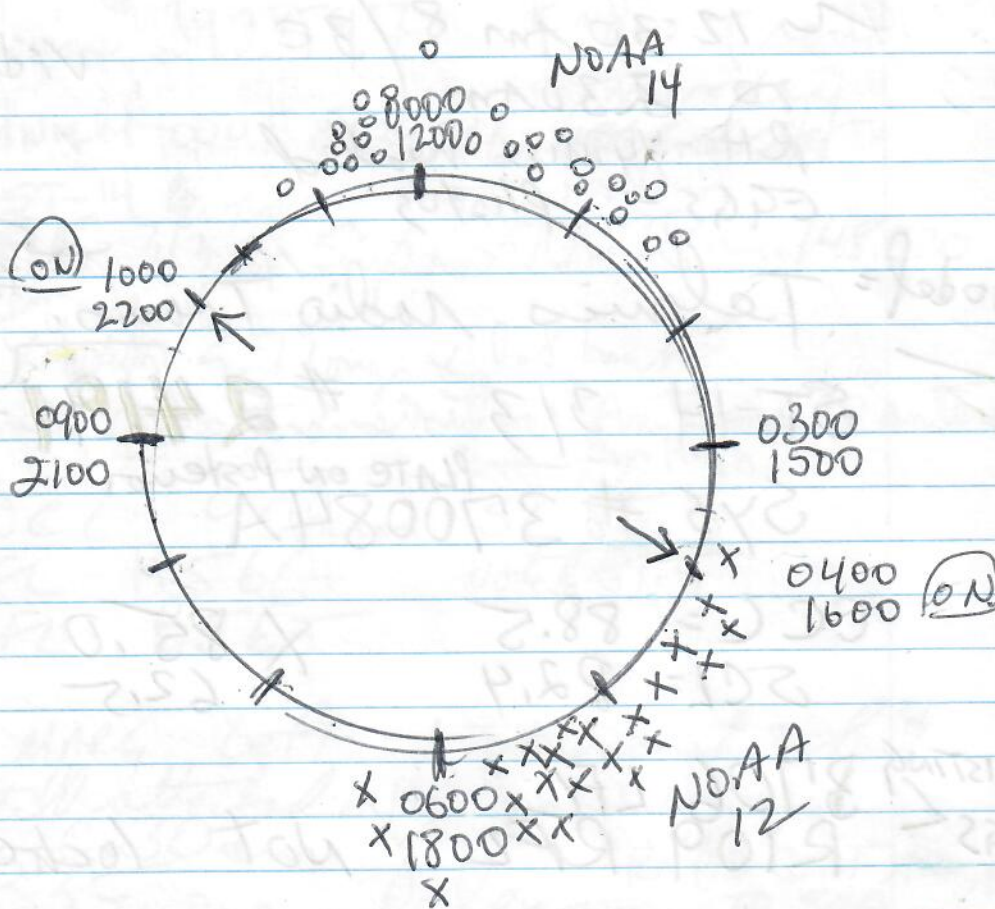
0498

Near 8/29/96 25695 ovipost

Both buried ~ 45 cm deep. PROGRAMMED TO TAKE TEMPERATURE EVERY (30) MIN.

ALL PLOTS IN GMT

AUGUST 96



GMT "ON" TIMES = 1000 or 0400
2200 or 1600

"ON" HST = 0000h or 1800h
(GMT - 10 hours) 1200h or 0600h

O = NOAA 14 = 0
 ~ = " 12 = X

GMT - 9
 10 Hours = HST

GEORGE BALAZS/BILL GILMARTIN 19.2 N, 155.5 W, 0 M HAWKSBILL

date	object	beacon	rise	tca	set	el
Mon 26Aug96	NOAA-14	1707.0000	00:42:36	00:49:57	00:57	31
Mon 26Aug96	NOAA-10	1698.0000	01:37:18	01:40:46	01:44	3
Mon 26Aug96	NOAA-12	1698.0000	02:57:25	02:59:03	03:00	1
Mon 26Aug96	NOAA-10	1698.0000	03:12:10	03:19:46	03:27	73
Mon 26Aug96	NOAA-11	1707.0000	04:30:35	04:38:07	04:45	43
Mon 26Aug96	NOAA-12	1698.0000	04:30:36	04:38:06	04:45	56
Mon 26Aug96	NOAA-10	1698.0000	04:54:51	04:59:45	05:04	7
Mon 26Aug96	NOAA-11	1707.0000	06:12:24	06:18:41	06:24	14
Mon 26Aug96	NOAA-12	1698.0000	06:12:37	06:18:10	06:23	10
Mon 26Aug96	NOAA-14	1707.0000	11:36:23	11:43:36	11:50	26
Mon 26Aug96	NOAA-14	1707.0000	13:16:58	13:24:07	13:31	26
Mon 26Aug96	NOAA-10	1698.0000	14:03:45	14:07:03	14:10	3
Mon 26Aug96	NOAA-12	1698.0000	15:24:35	15:26:19	15:28	1
Mon 26Aug96	NOAA-10	1698.0000	15:39:32	15:47:09	15:54	80
Mon 26Aug96	NOAA-12	1698.0000	16:59:03	17:06:39	17:14	64
Mon 26Aug96	NOAA-11	1707.0000	17:03:53	17:11:38	17:19	53
Mon 26Aug96	NOAA-10	1698.0000	17:21:37	17:26:20	17:31	6
Mon 26Aug96	NOAA-12	1698.0000	18:40:43	18:46:05	18:51	9
Mon 26Aug96	NOAA-11	1707.0000	18:45:42	18:51:43	18:57	12
Mon 26Aug96	NOAA-14	1707.0000	22:52:19	22:58:42	23:05	16
Mon 26Aug96 passes = 20						
Tue 27Aug96	NOAA-14	1707.0000	00:31:29	00:39:02	00:46	42
Tue 27Aug96	NOAA-10	1698.0000	02:48:23	02:55:43	03:03	38
Tue 27Aug96	NOAA-12	1698.0000	04:09:13	04:16:21	04:23	32
Tue 27Aug96	NOAA-11	1707.0000	04:18:30	04:25:47	04:33	32
Tue 27Aug96	NOAA-10	1698.0000	04:29:10	04:35:30	04:41	16
Tue 27Aug96	NOAA-12	1698.0000	05:49:39	05:56:14	06:02	19
Tue 27Aug96	NOAA-11	1707.0000	05:59:27	06:06:15	06:13	20
Tue 27Aug96	NOAA-14	1707.0000	11:25:48	11:32:40	11:39	20
Tue 27Aug96	NOAA-14	1707.0000	13:05:52	13:13:17	13:20	34
Tue 27Aug96	NOAA-10	1698.0000	15:15:40	15:23:01	15:30	41
Tue 27Aug96	NOAA-12	1698.0000	16:37:29	16:44:48	16:52	36
Tue 27Aug96	NOAA-11	1707.0000	16:51:40	16:59:14	17:06	39
Tue 27Aug96	NOAA-10	1698.0000	16:56:18	17:02:27	17:08	14
Tue 27Aug96	NOAA-12	1698.0000	18:18:01	18:24:27	18:30	17
Tue 27Aug96	NOAA-11	1707.0000	18:32:53	18:39:27	18:46	17
Tue 27Aug96	NOAA-14	1707.0000	22:42:04	22:47:55	22:53	12
Tue 27Aug96 passes = 16						
Wed 28Aug96	NOAA-14	1707.0000	00:20:27	00:28:08	00:35	55
Wed 28Aug96	NOAA-10	1698.0000	02:25:01	02:31:43	02:38	21
Wed 28Aug96	NOAA-12	1698.0000	03:48:11	03:54:40	04:01	18

	date	object	beacon	rise	tca	set	el
Wed	28Aug96	NOAA-10	1698.0000	04:04:10	04:11:17	04:18	29
Wed	28Aug96	NOAA-11	1707.0000	04:06:32	04:13:29	04:20	23
Wed	28Aug96	NOAA-12	1698.0000	05:27:09	05:34:21	05:41	33
Wed	28Aug96	NOAA-11	1707.0000	05:46:39	05:53:50	06:01	27
Wed	28Aug96	NOAA-14	1707.0000	11:15:20	11:21:44	11:28	15
Wed	28Aug96	NOAA-14	1707.0000	12:54:50	13:02:26	13:10	44
Wed	28Aug96	NOAA-10	1698.0000	14:52:02	14:58:49	15:05	22
Wed	28Aug96	NOAA-12	1698.0000	16:16:11	16:22:55	16:29	20
Wed	28Aug96	NOAA-10	1698.0000	16:31:31	16:38:30	16:45	27
Wed	28Aug96	NOAA-11	1707.0000	16:39:32	16:46:50	16:54	28
Wed	28Aug96	NOAA-12	1698.0000	17:55:40	18:02:46	18:09	30
Wed	28Aug96	NOAA-11	1707.0000	18:20:09	18:27:10	18:34	24
Wed	28Aug96	NOAA-14	1707.0000	22:31:58	22:37:09	22:42	8
Wed 28Aug96 passes = 16							
Thu	29Aug96	NOAA-14	1707.0000	00:09:26	00:17:14	00:25	74
Thu	29Aug96	NOAA-14	1707.0000	01:55:03	01:58:14	02:01	2
Thu	29Aug96	NOAA-10	1698.0000	02:02:09	02:07:48	02:13	11
Thu	29Aug96	NOAA-12	1698.0000	03:27:31	03:33:02	03:38	10
Thu	29Aug96	NOAA-10	1698.0000	03:39:37	03:47:08	03:54	55
Thu	29Aug96	NOAA-11	1707.0000	03:54:42	04:01:12	04:07	17
Thu	29Aug96	NOAA-12	1698.0000	05:04:57	05:12:30	05:20	59
Thu	29Aug96	NOAA-11	1707.0000	05:33:59	05:41:26	05:48	38
Thu	29Aug96	NOAA-14	1707.0000	11:04:55	11:10:47	11:16	10
Thu	29Aug96	NOAA-14	1707.0000	12:43:47	12:51:35	12:59	58
Thu	29Aug96	NOAA-14	1707.0000	14:28:48	14:31:20	14:33	1
Thu	29Aug96	NOAA-10	1698.0000	14:28:52	14:34:35	14:40	11
Thu	29Aug96	NOAA-12	1698.0000	15:55:12	16:00:59	16:06	11
Thu	29Aug96	NOAA-10	1698.0000	16:07:02	16:14:28	16:21	50
Thu	29Aug96	NOAA-11	1707.0000	16:27:30	16:34:25	16:41	21
Thu	29Aug96	NOAA-12	1698.0000	17:33:30	17:41:02	17:48	52
Thu	29Aug96	NOAA-11	1707.0000	18:07:32	18:14:52	18:22	32
Thu	29Aug96	NOAA-12	1698.0000	19:18:59	19:20:02	19:21	0
Thu	29Aug96	NOAA-14	1707.0000	22:22:02	22:26:23	22:30	5
Thu	29Aug96	NOAA-14	1707.0000	23:58:32	00:06:21	00:14	85
Thu 29Aug96 passes = 20							
Fri	30Aug96	NOAA-10	1698.0000	01:40:06	01:43:57	01:47	4
Fri	30Aug96	NOAA-14	1707.0000	01:42:44	01:47:16	01:51	5
Fri	30Aug96	NOAA-12	1698.0000	03:07:44	03:11:28	03:15	4
Fri	30Aug96	NOAA-10	1698.0000	03:15:23	03:23:01	03:30	79
Fri	30Aug96	NOAA-11	1707.0000	03:43:01	03:48:56	03:54	12
Fri	30Aug96	NOAA-12	1698.0000	04:43:06	04:50:41	04:58	79

	date	object	beacon	rise	tca	set	el
	Fri 30Aug96	NOAA-10	1698.0000	04:58:25	05:03:01	05:07	6
	Fri 30Aug96	NOAA-11	1707.0000	05:21:25	05:29:02	05:36	52
	Fri 30Aug96	NOAA-12	1698.0000	06:26:16	06:30:51	06:35	6
	Fri 30Aug96	NOAA-14	1707.0000	10:54:46	10:59:50	11:04	7
	Fri 30Aug96	NOAA-14	1707.0000	12:32:50	12:40:43	12:48	77
	Fri 30Aug96	NOAA-10	1698.0000	14:06:32	14:10:19	14:14	4
	Fri 30Aug96	NOAA-14	1707.0000	14:16:35	14:20:37	14:24	4
	Fri 30Aug96	NOAA-12	1698.0000	15:35:02	15:39:02	15:43	4
	Fri 30Aug96	NOAA-10	1698.0000	15:42:45	15:50:23	15:58	87
	Fri 30Aug96	NOAA-11	1707.0000	16:15:35	16:21:59	16:28	15
	Fri 30Aug96	NOAA-12	1698.0000	17:11:36	17:19:15	17:26	88
	Fri 30Aug96	NOAA-10	1698.0000	17:25:05	17:29:32	17:33	5
	Fri 30Aug96	NOAA-11	1707.0000	17:54:58	18:02:33	18:10	43
	Fri 30Aug96	NOAA-12	1698.0000	18:54:05	18:58:32	19:02	6
	Fri 30Aug96	NOAA-14	1707.0000	22:12:34	22:15:39	22:18	2
	Fri 30Aug96	NOAA-14	1707.0000	23:47:43	23:55:29	00:03	65
	Fri 30Aug96	passes =	22				
	Sat 31Aug96	NOAA-14	1707.0000	01:30:52	01:36:18	01:41	9
	Sat 31Aug96	NOAA-10	1698.0000	02:51:34	02:58:56	03:06	42
	Sat 31Aug96	NOAA-11	1707.0000	03:31:27	03:36:41	03:41	8
	Sat 31Aug96	NOAA-12	1698.0000	04:21:32	04:28:54	04:36	44
	Sat 31Aug96	NOAA-10	1698.0000	04:32:35	04:38:46	04:44	14
	Sat 31Aug96	NOAA-11	1707.0000	05:08:54	05:16:39	05:24	73
	Sat 31Aug96	NOAA-12	1698.0000	06:02:52	06:08:54	06:14	13
	Sat 31Aug96	NOAA-11	1707.0000	06:54:27	06:57:31	07:00	2
	Sat 31Aug96	NOAA-14	1707.0000	10:44:56	10:48:52	10:52	4
	Sat 31Aug96	NOAA-14	1707.0000	12:21:57	12:29:51	12:37	82
	Sat 31Aug96	NOAA-14	1707.0000	14:04:52	14:09:52	14:14	7
	Sat 31Aug96	NOAA-10	1698.0000	15:18:51	15:26:15	15:33	45
	Sat 31Aug96	NOAA-11	1707.0000	16:03:46	16:09:33	16:15	10
	Sat 31Aug96	NOAA-12	1698.0000	16:49:54	16:57:26	17:04	50
	Sat 31Aug96	NOAA-10	1698.0000	16:59:40	17:05:39	17:11	13
	Sat 31Aug96	NOAA-11	1707.0000	17:42:26	17:50:13	17:58	60
	Sat 31Aug96	NOAA-12	1698.0000	18:31:04	18:36:57	18:42	12
	Sat 31Aug96	NOAA-11	1707.0000	19:27:07	19:29:51	19:32	2
	Sat 31Aug96	NOAA-14	1707.0000	23:36:58	23:44:37	23:52	49
	Sat 31Aug96	passes =	19				
	Sun 01Sep96	NOAA-14	1707.0000	01:19:15	01:25:21	01:31	13
	Sun 01Sep96	NOAA-10	1698.0000	02:28:08	02:34:56	02:41	23
	Sun 01Sep96	NOAA-11	1707.0000	03:20:16	03:24:28	03:28	5
	Sun 01Sep96	NOAA-12	1698.0000	04:00:17	04:07:11	04:14	25

Sun	01Sep96	NDAA-10	1698.0000	04:07:31	04:14:32	04:21	27
Sun	01Sep96	NDAA-11	1707.0000	04:56:31	05:04:17	05:12	83
Sun	01Sep96	NDAA-12	1698.0000	05:40:07	05:46:59	05:53	24
Sun	01Sep96	NDAA-11	1707.0000	06:40:27	06:48:03	06:49	6
Sun	01Sep96	NDAA-14	1707.0000	10:35:53	10:37:54	10:39	1
Sun	01Sep96	NDAA-14	1707.0000	12:11:06	12:18:57	12:26	62
Sun	01Sep96	NDAA-14	1707.0000	13:53:23	13:59:06	14:04	10
Sun	01Sep96	NDAA-10	1698.0000	14:55:11	15:02:04	15:08	24
Sun	01Sep96	NDAA-11	1707.0000	15:52:17	15:57:06	16:01	6
Sun	01Sep96	NDAA-12	1698.0000	16:28:26	16:35:34	16:42	28
Sun	01Sep96	NDAA-10	1698.0000	16:34:49	16:41:42	16:48	25
Sun	01Sep96	NDAA-11	1707.0000	17:30:00	17:37:52	17:45	82
Sun	01Sep96	NDAA-12	1698.0000	18:08:32	18:15:18	18:22	22
Sun	01Sep96	NDAA-11	1707.0000	19:13:22	19:17:39	19:21	5
Sun	01Sep96	NDAA-14	1707.0000	23:26:18	23:33:45	23:41	37

Sun 01Sep96 passes = 19

Mon	02Sep96	NDAA-14	1707.0000	01:07:48	01:14:24	01:21	17
Mon	02Sep96	NDAA-10	1698.0000	02:05:11	02:11:00	02:16	12
Mon	02Sep96	NDAA-11	1707.0000	03:09:41	03:12:16	03:14	2
Mon	02Sep96	NDAA-12	1698.0000	03:39:20	03:45:30	03:51	14
Mon	02Sep96	NDAA-10	1698.0000	03:42:55	03:50:22	03:57	56
Mon	02Sep96	NDAA-11	1707.0000	04:44:14	04:51:55	04:59	60
Mon	02Sep96	NDAA-12	1698.0000	05:17:43	05:25:06	05:32	42
Mon	02Sep96	NDAA-11	1707.0000	06:27:01	06:32:36	06:38	10
Mon	02Sep96	NDAA-14	1707.0000	12:00:19	12:08:03	12:15	47
Mon	02Sep96	NDAA-14	1707.0000	13:42:02	13:48:19	13:54	14
Mon	02Sep96	NDAA-10	1698.0000	14:31:55	14:37:50	14:43	12
Mon	02Sep96	NDAA-11	1707.0000	15:41:18	15:44:38	15:47	3
Mon	02Sep96	NDAA-12	1698.0000	16:07:12	16:13:40	16:20	16
Mon	02Sep96	NDAA-10	1698.0000	16:10:18	16:17:41	16:25	45
Mon	02Sep96	NDAA-11	1707.0000	17:17:39	17:25:30	17:33	74
Mon	02Sep96	NDAA-12	1698.0000	17:46:15	17:53:36	18:00	38
Mon	02Sep96	NDAA-11	1707.0000	19:00:09	19:05:26	19:10	8
Mon	02Sep96	NDAA-14	1707.0000	23:15:42	23:22:55	23:30	28

Mon 02Sep96 passes = 18

Tue	03Sep96	NDAA-14	1707.0000	00:56:28	01:03:28	01:10	23
Tue	03Sep96	NDAA-10	1698.0000	01:42:58	01:47:09	01:51	5
Tue	03Sep96	NDAA-10	1698.0000	03:18:37	03:26:15	03:33	86
Tue	03Sep96	NDAA-12	1698.0000	03:19:01	03:23:54	03:28	7
Tue	03Sep96	NDAA-11	1707.0000	04:32:03	04:39:35	04:47	43
Tue	03Sep96	NDAA-12	1698.0000	04:55:41	05:03:16	05:10	75

	date	object	beacon	rise	tca	set	el	
	Tue	03Sep96	NDAA-10	1698.0000	05:02:02	05:06:17	05:10	5
	Tue	03Sep96	NDAA-11	1707.0000	06:13:52	06:20:09	06:26	14
	Tue	03Sep96	NDAA-12	1698.0000	06:40:30	06:43:32	06:46	2
	Tue	03Sep96	NDAA-14	1707.0000	11:49:35	11:57:09	12:04	34
	Tue	03Sep96	NDAA-14	1707.0000	13:30:47	13:37:31	13:44	19
	Tue	03Sep96	NDAA-10	1698.0000	14:09:23	14:13:34	14:17	5
	Tue	03Sep96	NDAA-10	1698.0000	15:45:59	15:53:37	16:01	86
	Tue	03Sep96	NDAA-12	1698.0000	15:46:31	15:51:43	15:56	8
	Tue	03Sep96	NDAA-11	1707.0000	17:05:21	17:13:07	17:20	53
	Tue	03Sep96	NDAA-12	1698.0000	17:24:13	17:31:51	17:39	67
	Tue	03Sep96	NDAA-10	1698.0000	17:28:35	17:32:43	17:36	5
	Tue	03Sep96	NDAA-11	1707.0000	18:47:10	18:53:12	18:59	12
	Tue	03Sep96	NDAA-12	1698.0000	19:07:53	19:10:58	19:14	2
	Tue	03Sep96	NDAA-14	1707.0000	23:05:12	23:12:05	23:18	22
	Tue 03Sep96 passes = 20							
	Wed	04Sep96	NDAA-14	1707.0000	00:45:15	00:52:32	00:59	30
	Wed	04Sep96	NDAA-10	1698.0000	02:54:45	03:02:10	03:09	46
	Wed	04Sep96	NDAA-12	1698.0000	02:59:54	03:02:22	03:04	1
	Wed	04Sep96	NDAA-11	1707.0000	04:20:02	04:27:15	04:34	32
	Wed	04Sep96	NDAA-12	1698.0000	04:33:57	04:41:28	04:48	62
	Wed	04Sep96	NDAA-10	1698.0000	04:36:01	04:42:01	04:48	13
	Wed	04Sep96	NDAA-11	1707.0000	06:00:56	06:07:43	06:14	20
	Wed	04Sep96	NDAA-12	1698.0000	06:16:17	06:21:34	06:26	8
	Wed	04Sep96	NDAA-14	1707.0000	11:38:55	11:46:13	11:53	27
	Wed	04Sep96	NDAA-14	1707.0000	13:19:36	13:26:43	13:33	25
	Wed	04Sep96	NDAA-10	1698.0000	15:22:02	15:29:29	15:36	50
	Wed	04Sep96	NDAA-12	1698.0000	15:27:02	15:29:45	15:32	2
	Wed	04Sep96	NDAA-11	1707.0000	16:53:08	17:00:43	17:08	39
	Wed	04Sep96	NDAA-12	1698.0000	17:02:24	17:10:03	17:17	71
	Wed	04Sep96	NDAA-10	1698.0000	17:03:02	17:08:51	17:14	12
	Wed	04Sep96	NDAA-11	1707.0000	18:34:21	18:40:56	18:47	17
	Wed	04Sep96	NDAA-12	1698.0000	18:44:16	18:49:26	18:54	8
	Wed	04Sep96	NDAA-14	1707.0000	22:54:52	23:01:17	23:07	17
	Wed 04Sep96 passes = 18							

14

2 NIGHTS

8/27-8/29/96 volunteers AT KAMEHAME

① ANNE YEN
HAUO-KM
PO BOX 52

Hawaiian Nat'l Prk HI 96718

~~Just send
TAMMAN
Turtle
Literature~~

② Hsiachui Parks ☺
323 light house Ave
Santa Cruz, Calif 95060
email: teitei@cats.ucsc.edu
(see p. 118 for
volunteers night 3)

(TAMMAN)
Detroit

~~with~~ There only night

③ MONIQUE DIGIORS
460 BAXTER AVE
WYCKOFF, NJ 074

Needs

- ? - Larry and volunteers non-participation in HeLa Hon
- Competing box
- Haulsfill recovery plan
- Identify Ants collected
- 2 adult DNA and 3 hatchling (sand)
- DNA ~~to~~ to Dutton
- R1-25 L1-25 tagging sites instructed by Larry
- if tag is bad at RFLP LFL
- Restrict turtle after cover up as coming down beach.
- How many rights sent on beach
- " by Larry each season?
- 700 many other projects going strong
- " " " "
- Video - intervention & people on haulsfill?

8/28/96 Lunch at Volcano Store. Shower
Wed. at Bills newly purchased house in
Volcano, owned previously by Lynn & G.
~ 2.5 sleep at house on hardwood
floor.

NIGHT
2

Two Volunteers very
concerned w/ set about B565/B566
would become entangled in her
Naupaka - They wanted to drag in her
out & shoot one later. She
swam out on her own.

Drove back to Hospital in 4x4
military station wagon, to have home -
arrive just before dark. ~ 40 min
up or down road. Turtle B565/B566
up - 9:30 to Sinder cone base, then
followed it to right to Naupaka
(left end), into edge of Naupaka
where chamber excavation and ovipost
occurred. Virtually no body pit
dug. Earlier, about 7:30 PM,
B706/R109, came up into
clearing (with steep cliff in back where
turtles try to climb) to the right
of beach. People sit on beach
still and turtles crawl around
them unafraid. This turtle
named "Bimbo" by volunteers because
of many false crawls (but has successfully
nested). RH 1/4 missing and healed.
Turtle eventually returned to water
without nesting. B565/B566 contained
for 25695 8-14. To Bed ~ 1 AM
after organizing attachment gear 12-1 AM.
Two volunteers slept with turtle.
No additional emergencies.

Need

8/29 Thurs Attach & release - see page 6. Many 35mm
carrying after work nearly done. slide photos.

8/29/96 ~ 10am drove to hospital to rental
 Thurs. car. Four new volunteers unexpectedly
 replaced existing two. Sites being
 monitored include Pokue, Apeva,
 Hamelone and, intermittently (checked)
Kivalua, NiNoie, Kawa. others?

Lunch at Golf Course restaurant.
 Nap at Bill's Volcano house.

Returned to Hamelone at
 ~ 7pm. NetHorn project 3 people + John
 Lindelow returned. Had gone
 to Kora to rent replacement
 video. I immediately learned
 that turtle had come ashore
 at southern end of Hamelone cove.
 Turtle was returning to water
 so all 4 ran to restrain turtle
 in order to read tag. other
 issue, they didn't want it
 nesting at flat end (ie turtle
 too ignorant to locate its
 own nesting suitable site!?)

NIGHT
 3

Barb from US Turtle (small) up
 ~ 8-9pm in steep pocket area.
 Volunteers and we on beach as
 she crawled around, hind
 flippers everted, etc. Existing tags.
 Later she returned (started to
 go back to ocean (boxed).
 moved to rot area.

Turned
 out to be
 same quality
 one earlier

8/29 -
Thurs.

8/30/96
Friday

weed = excavation of nests 1-2 days
later (on paper) but in fact
occurs variable and different eel rot.
carry rot on beach. phone ~~is~~ rot.
- "Move" turtle if impacting existing nests.
- But in practice instructions not clear
i.e. 3-4 nests in steep area Ave/chaule,
ready to move turtle away

8/30 I went back to tent 12 midnight - I was
called at 1230 am about turtle in Nawaka.
B706, R109 "Bimbo" from last night
- resting at good site down from steep
area (nest #22 recorded brown for season).
Lots of video / my FLASH photos / of turtle, eggs
due to RH 1/4 missing and spread-eagle.
Released 75cm turtle from box - video going
down beach. Turtle bored following
coverup ~ 3 am. sleep 330 - 515 am.

→ 630 am start attachment. Larry never
came. Lots of video. Video of volunteers
digging out nests - but unclear what nest
to excavate

Buried 2 data loggers.

- Backnote - If preparation ^{eggs} was total 10-30
years ago, rot turtles would be here
now!

Depart ~ 10 am - Dropped Marty &
Bill at his volcano cabin.
Dropped off truck at Resource Management, Larry busy.
No mention ever by Larry about 9/6 Maui meeting.

8/30/96
Friday

Aloha FL 295 330 pm
TO Honolulu ARRIVE ~ 415 PM.



United States Department of the Interior

NATIONAL PARK SERVICE
Hawaii Volcanoes National Park
P.O. Box 52
Hawaii 96718-0052

IN REPLY REFER TO:

Fax Transmittal

To: George Balazs, NMFS (808) 943-1290
From: Larry Katahira *Larry Katahira*
Subject: Transmitter turtles

Hi George,

Here's more info on 24191 and 25695....

24191. Tag #B706, R109, B570

Originally tagged at Kamehame on July 3, 1993 with R108, R109. In 1993, two nesting events were observed but probably nested more times.

On June 16, 1996, she was observed false nesting at Kamehame. R108 was missing and replaced with B706 on LFF. She probably nested unobserved during that week. She renested on July 8, August 12, and August 29.

25695. Tag #B565, B566

Nested and tagged at Kamehame on August 12, 1996. She may have nested earlier in the season since we had observed an untagged turtle on the beach on July 20 and August 1. She renested on August 28 and September 16.

ID
24191

ID
25695

Telonic VHF**MOD-225**Dimensions: 1.75" x 1.3" x 0.75"
(4.4 x 3.3 x 1.9 cm)

\$285.00

Weight: 80-85 grams

Operational life: 15-30 months, at 75-35 pulses per minute. Similar to the MOD-200 in application and available options. Extra battery capacity provides for increased operational life.

HAWAII WILDLIFE FUND

55-472 A PALEKANA ST.

LAIE, HI 96762

(808) 293-9558 (VOICE AND FAX)

FAX TRANSMISSION

TO: George Balazs / Larry Katahira
FAX NUMBER: 943-1290 / 985-8614
FROM: Bill Gilmartin
RE: Update - Hawksbills' positions
PAGES: 1
DATE: November 28, 1996

COMMENTS:

We are still getting radio transmissions from both turtles. Turtle 25695 remains in the bay off Kabului Harbor, Maui and the other just offshore of Paauilo, Hawaii. No movement has been detected since they "settled in" at those two sites. I'll let you know if the status changes.

***** Telonics Inc. Software Report *****

Software Name...: ST950823
System Number...: 370078
Date Programed...: 8-23-95

Hawk3bill 8/96

Kamehame

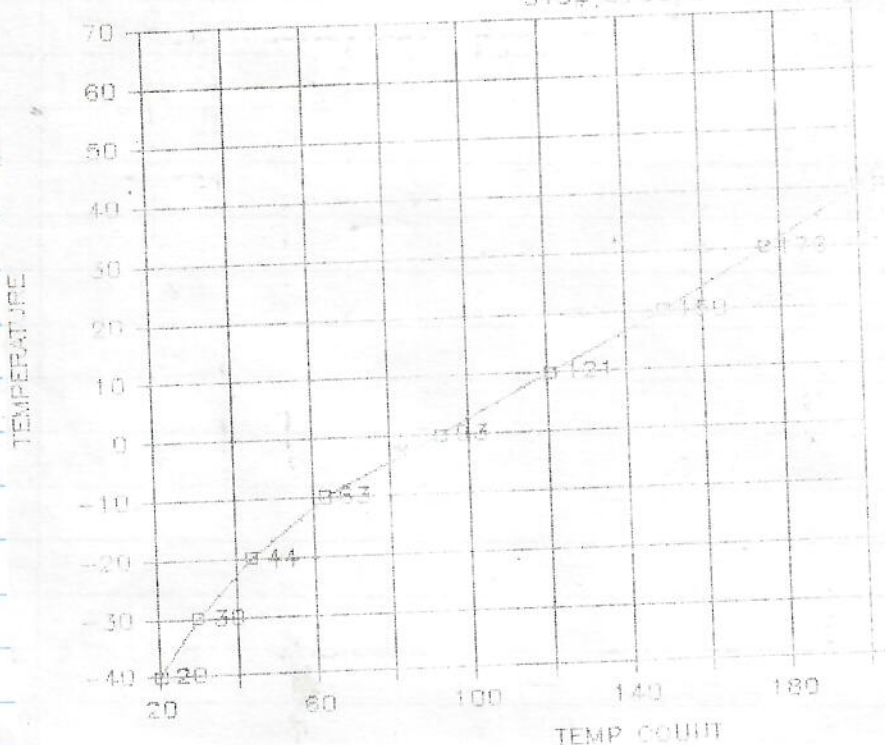
Migrated
to KAHULUI,
MAUI

ID Code..... 25695
 Message Length..... 8 bytes
 Repetition Rate..... 47 sec
 Power Up Transmit Time..... 0 hrs
 Transmit Date & Time @ Start Up..... No
 Magnet Restart time..... 5 sec
 Magnet Stop time..... 30 sec
 Real Dive Time..... 10 sec
 Salt Water Switch Averaging Interval..... 12 hrs
 Salt Water Switch Averaging Offset..... 0 hrs
 Clear Last Dive Time after Transmission..... NO
 Salt Water Switch Failsafe Time Out..... 24 hrs
 Seasonal Shut-down option..... DISABLED
 Season Table Type..... Seasons specified in number of day

Season 1 0 days	Season 2 0 days	Season 3 0 days	Season 4 0 days
On/Off Hours	On/Off Hours	On/Off Hours	On/Off Hours
3/ 3	0/ 0	0/ 0	0/ 0
0/ 0	0/ 0	0/ 0	0/ 0
0/ 0	0/ 0	0/ 0	0/ 0
0/ 0	0/ 0	0/ 0	0/ 0

25695

TEMP / °C
SYS# 370078





PTT TRANSMITTER TEST DATA

FINAL TEST DATE: _____ PAGE 1 OF 1

STATE: HI AGENCY: _____

CUSTOMER: George Bolaz CUSTOMER #: 15069

WORK ORDER #: 950630016 SPECIES: Sea Turtle

CONFIGURATION: ST-14 ANTENNA: TRSNFTEXT

ATTACHMENT: _____

REMARKS: _____

OPERATIONAL LIFE: _____ @ _____ mSec; _____ @ _____ mSec; _____ @ _____ mSec

PTT DUTY CYCLE: _____

ID CODE	PTT			VHF SERIAL NUMBER	XMITR FREQUENCY (MHz)		PULSE WIDTH	PERIOD DATA (mSec/8PM)			DELAY TIME H/M/S	MAG TST	BATTERY SERIAL NUMBER	TEST BY
	SYSTEM NUMBER	BOARD S/N	BATTERY S/N		DESIGNED FREQUENCY	ACTUAL FREQUENCY		ACTIVE PERIOD 1	ACTIVE PERIOD 2	INACTIVE PERIOD				
<u>25694</u>	<u>370077A</u>	<u>370077A</u>	<u>4124</u>											
<u>25695</u>	<u>370078A</u>	<u>370078A</u>	<u>4123</u>											

REV 9 84

1010 P. 01

F A X
.....Department of the Interior
National Park ServiceHawaii Volcanoes National Park/
Resources Management DivisionMail: P.O. Box 52, Hawaii National Park, HI 96718-0052
Location: Hawaii Volcanoes National Park, Building 322
Voice: (808) 987-8226 Fax: (808) 985-8614

Date 10/10/96

To: George Balazs

Fax # (808) 943-1290

From: Harry Katakura

Pages: 1

Subject: Transmitter turtle

Hi George,

Turtle #25695 (tag #'s B565/B566)
re-nested on Oct 8 at Kamehame.

Is she moving around the Island?

Harry K.

TO 1 800 633 6384808943 P. 01

DCT-11-1996 13:26 FROM RESOURCES MGMT-HRUD

25695 Deployed Kanehame 8/29/96 ^{Successfully} 835 am HST 21

(Migrated to KAHULUI, MAUI)

= 8/29/96 1835h GMT

SCL 85.3
B565
B566
EXISTING

First Tagged Kanehame
8/12/96 nested

Parental
8/28/96
9/16/96
10/8/96
(see p.18)

25695 Date : 28.08.96 13:00:45 LC : 1 IQ : 60

Lat1 : ~~22.286N Lon1 : 169.331W~~ Lat2 : 19.147N Lon2 : 155.471W

147 00 00 00
00 00

TENT

25695 Date : 29.08.96 11:14:42 LC : A IQ : 60

Lat1 : ~~10.063N Lon1 : 115.554W~~ Lat2 : 19.139N Lon2 : 155.490W

154 00 00 00
00 00

TENT

25695 Date : 29.08.96 12:54:11 LC : (1) IQ : 50

Lat1 : 19.143N Lon1 : 155.464W

151 00 00 00
00 00

TENT

25695 Date : 29.08.96 17:42:06 LC : (3) IQ : 68

Lat1 : 19.143N Lon1 : 155.472W

170 00 00 00
00 00

TENT

25695 Date : 01.09.96 04:10:12 LC : A IQ : 00

Lat1 : 19.243N Lon1 : 155.284W

175 1531 1394 (15)
00 00

25695 Date : 03.09.96 23:08:05 LC : Z IQ : 10

Lat1 : 19.104N Lon1 : 154.969W

175 1919 1610 (13)
00 00

25695 Date : 05.09.96 11:35:46 LC : B IQ : 00

Lat1 : 18.983N Lon1 : 155.438W

175 2042 1500 (14)
00 00

25695 Date : 07.09.96 00:15:56 LC : Z IQ : 00

Lat1 : ??????? Lon1 : ????????

175 1938 1399 (15)
00 01

25695 Date : 08.09.96 04:56:07 LC : B IQ : 00

Lat1 : 18.752N Lon1 : 156.893W Lat2 : 19.499N Lon2 : 153.580W

175 1535 1399 (15)
00 02

25695 Date : 08.09.96 23:56:36 LC : B IQ : 00

Lat1 : 19.243N Lon1 : 154.990W Lat2 : 20.187N Lon2 : 150.745W

176 1945 1499 (14)
00 00

25695 Date : 09.09.96 17:03:45 LC : 0 IQ : 50
 Lat1 : 19.122N Lon1 : 155.570W
 175 2125 1315 16
 00 00

25695 Date : 09.09.96 23:48:08 LC : A IQ : 00
 Lat1 : 19.139N Lon1 : 155.439W
 175 2055 1313 16
 00 00

25695 Date : 11.09.96 16:12:45 LC : Z IQ : 1
 Lat1 : 19.239N Lon1 : 154.945W
 175 2182 1755 12
 00 00

25695 Date : 11.09.96 16:12:45 LC : Z IQ : 10
 Lat1 : 19.239N Lon1 : 154.945W
 175 2182 1755 12
 00 00

25695 Date : 12.09.96 17:38:13 LC : Z IQ : 10
 Lat1 : 19.114N Lon1 : 154.726W
 175 2320 1619 13
 00 00

25695 Date : 14.09.96 16:46:09 LC : Z IQ : 10
 Lat1 : 19.697N Lon1 : 154.338W
 174 1471 1315 254
 00 00

25695 Date : 14.09.96 18:28:46 LC : B IQ : 00
 Lat1 : 19.206N Lon1 : 155.824W
 175 129 1315 16
 00 01

25695 Date : 14.09.96 22:49:25 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 175 05 915 23
 00 00

25695 Date : 15.09.96 05:39:07 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 174 349 915 23
 00 00

25695 Date : 15.09.96 16:24:26 LC : B IQ : 00
 Lat1 : 19.500N Lon1 : 154.585W
 174 317 513 41
 00 01

25695 Date : 16.09.96 00:18:54 LC : B IQ : 00
 Lat1 : 18.462N Lon1 : 156.823W
 175 260 286 73
 00 00

25695 Date : 16.09.96 11:15:29 LC : B IQ : 00
 Lat1 : 19.030N Lon1 : 155.451W
 173 51 208 95
 00 00

TENT
19.143N
155.472W

Nested
9/16/96
Monday
night

25695 Date : 16.09.96 11:15:29 LC : B IQ : 00
Lat1 : 19.030N Lon1 : 155.451W

173 51 208 95
00 00

25695 Date : 17.09.96 05:00:44 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ????????

174 112 244 80
00 01

25695 Date : 17.09.96 12:47:23 LC : A IQ : 00
Lat1 : 19.073N Lon1 : 155.405W

172 238 248 85
00 00

25695 Date : 18.09.96 17:02:22 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ????????

00 1963 618 34
00 03

25695 Date : 19.09.96 23:40:53 LC : B IQ : 00
Lat1 : 19.119N Lon1 : 155.600W

174 1901 1496 14
00 01

25695 Date : 22.09.96 17:22:33 LC : Z IQ : 10
Lat1 : 18.529N Lon1 : 152.466W Lat2 : 19.689N Lon2 : 157.539W

174 2157 1410 15
00 00

25695 Date : 20.09.96 12:14:24 LC : B IQ : 00
Lat1 : 19.103N Lon1 : 155.576W

174 2018 1397 15
00 00

25695 Date : 27.09.96 18:48:05 LC : 0 IQ : 50
Lat1 : 19.087N Lon1 : 155.513W

175 10 1244 2052
00 00

25695 Date : 28.09.96 12:29:56 LC : A IQ : 00
Lat1 : 18.146N Lon1 : 151.024W Lat2 : 19.197N Lon2 : 155.781W

174 1704 2344 09
00 00

25695 Date : 29.09.96 12:15:43 LC : B IQ : 00
Lat1 : 19.100N Lon1 : 155.491W

174 2782 1918 11
00 00

25695 Date : 29.09.96 16:19:22 LC : A IQ : 00
Lat1 : 19.118N Lon1 : 155.647W

174 11 1918 11
00 00

25695 Date : 26.09.96 17:29:14 LC : B IQ : 00
Lat1 : 19.077N Lon1 : 155.573W

174 2331 1618 13
00 00

25695 Date : 30.09.96 16:03:46 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 07 848 25
00 05

25695 Date : 03.10.96 05:44:07 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
174 2314 1762 12
00 00

25695 Date : 04.10.96 16:16:08 LC : B IQ : 00
Lat1 : 19.092N Lon1 : 155.426W
00 374 294 72
00 20

25695 Date : 04.10.96 17:56:44 LC : 0 IQ : 60
Lat1 : 19.148N Lon1 : 155.498W
175 09 294 72
00 02

LOGGED

25695 Date : 05.10.96 04:59:37 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
175 260 337 63
00 00

25695 Date : 05.10.96 11:08:06 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
176 213 295 72
00 00

25695 Date : 05.10.96 17:31:41 LC : 1 IQ : 50
Lat1 : 19.167N Lon1 : 155.511W
176 29 295 72
00 00

LOGGED

25695 Date : 06.10.96 04:41:38 LC : B IQ : 00
Lat1 : 19.156N Lon1 : 155.447W
175 115 225 94
00 00

25695 Date : 07.10.96 04:15:14 LC : B IQ : 00
Lat1 : 19.021N Lon1 : 155.314W
00 2902 464 40
00 02

25695 Date : 09.10.96 23:19:21 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 345 1192 17
00 00

25695 Date : 11.10.96 00:51:08 LC : B IQ : 00
Lat1 : 19.090N Lon1 : 155.488W
176 267 1917 11
00 00

25695 Date : 11.10.96 17:06:02 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
174 418 413 51
00 00

25695 Date : 07.10.96 12:32:38 LC : B IQ : 00
Lat1 : 19.101N Lon1 : 155.377W
175 1822 141 8315
00 63

204,518
25695 Date : 08.10.96 23:32:37 LC : A IQ : 00
Lat1 : 19.035N Lon1 : 155.482W Lat2 : 19.026N Lon2 : 155.482W
19.035
19.026

25695 Date : 12.10.96 00:35:49 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
175 281 206 103
00 00

Plot

25695 Date : 12.10.96 16:41:15 LC : B IQ : 00
Lat1 : 18.963N Lon1 : 155.628W
173 50 200 104
00 00

Plot

25695 Date : 12.10.96 18:19:41 LC : 1 IQ : 50
Lat1 : 18.924N Lon1 : 155.706W
175 25 200 104
00 00

Plot

25695 Date : 12.10.96 22:49:14 LC : B IQ : 00
Lat1 : 19.027N Lon1 : 155.765W
176 67 132 160
00 00

Plot

25695 Date : 13.10.96 00:30:25 LC : 1 IQ : 56
Lat1 : 18.997N Lon1 : 155.784W
178 37 132 160
00 00

25695 Date : 13.10.96 17:56:48 LC : 3 IQ : 50
Lat1 : 19.033N Lon1 : 155.883W
177 06 195 109
00 00

25695 Date : 13.10.96 16:20:11 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
174 409 195 109
00 01

25695 Date : 14.10.96 17:35:21 LC : A IQ : 00
Lat1 : 19.187N Lon1 : 155.931W
176 79 216 98
00 00

25695 Date : 14.10.96 17:35:21 LC : A IQ : 00
Lat1 : 19.187N Lon1 : 155.931W
176 79 216 98
00 00

25695 Date : 14.10.96 00:19:45 LC : A IQ : 08
Lat1 : 19.066N Lon1 : 155.977W
176 24 138 144
00 00

25695 Date : 15.10.96 17:14:52 LC : 1 IQ : 50
Lat1 : 18.819N Lon1 : 153.385W Lat2 : 19.360N Lon2 : 155.899W
175 53 199 107
00 00

25695 Date : 15.10.96 18:52:25 LC : A IQ : 60
Lat1 : 29.189N Lon1 : 158.585E Lat2 : 19.397N Lon2 : 155.926W
177 97 199 107
00 00

25695 Date : 08.10.96 05:41:54 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
175 1492 392 54
00 00
25695 Date : 08.10.96 12:17:56 LC : B IQ : 00
Lat1 : 19.422N Lon1 : 155.499W
175 60 358 59
00 00

XUH PRESS



earlier

25695 Date : 04.10.96 00:33:42 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
176 2724 922 (23)
00 00

25695 Date : 04.10.96 05:20:37 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
175 373 922 23
00 00

25695 Date : 16.10.96 18:32:37 LC : B IQ : 00
Lat1 : 20.338N Lon1 : 156.005W
177 61 191 111
00 00

25695 Date : 16.10.96 23:46:08 LC : (1) IQ : 50
Lat1 : 19.765N Lon1 : 156.105W
179 78 121 175
00 00

25695 Date : 17.10.96 05:47:25 LC : B IQ : 00
Lat1 : 19.951N Lon1 : 156.022W
176 1424 121 175
00 01

25695 Date : 17.10.96 16:32:17 LC : (1) IQ : 60
Lat1 : 19.800N Lon1 : 156.017W
175 33 141 150
00 00

25695 Date : 17.10.96 18:09:37 LC : A IQ : 00
Lat1 : 19.949N Lon1 : 155.980W
176 31 141 146
03 18

25695 Date : 17.10.96 23:34:33 LC : B IQ : 00
Lat1 : 19.771N Lon1 : 156.008W
179 103 120 176
00 01

25695 Date : 18.10.96 05:23:48 LC : A IQ : 08
Lat1 : 20.073N Lon1 : 155.978W
176 15 120 176
00 00

25695 Date : 18.10.96 16:09:01 LC : A IQ : 08
Lat1 : 19.984N Lon1 : 155.974W
175 58 76 274
00 00

25695 Date : 18.10.96 17:48:50 LC : B IQ : 00
Lat1 : 20.040N Lon1 : 155.981W
176 127 76 274
00 00

25695 Date : 18.10.96 23:25:07 LC : (1) IQ : 56
Lat1 : 20.115N Lon1 : 155.941W
180 71 79 260
01 03

25695 Date : 19.10.96 01:02:24 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
180 92 79 260
00 00

25695 Date : 18.10.96 12:09:10 LC
Lat1 : 19.997N Lon1 : 155.911W
176 45 76 274
00 00

25695 Date : 07 10

25695 Date : 19.10.96 04:53:01 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
175 05 1103 260
00 01

25695 Date : 19.10.96 17:25:15 LC : B IQ : 00
Lat1 : 20.364N Lon1 : 156.426W Lat2 : 20.693N Lon2 : 158.332W
174 57 90 232
00 01

25695 Date : 19.10.96 23:15:54 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
177 4223 27475 61305
01 09

25695 Date : 20.10.96 00:56:05 LC : B IQ : 00
Lat1 : 20.591N Lon1 : 155.860W
176 83 104 203
00 00

25695 Date : 20.10.96 04:35:42 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
174 31 104 203
00 01

25695 Date : 20.10.96 06:15:29 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
174 32 104 203
00 02

25695 Date : 22.10.96 17:58:54 LC : 1 IQ : 50
Lat1 : 20.948N Lon1 : 156.365W
170 28 144 147
00 00

25695 Date : 20.10.96 17:05:24 LC : A IQ : 00
Lat1 : 19.149N Lon1 : 148.303W Lat2 : 20.757N Lon2 : 155.960W
138 58 3138 16609
01 01

25695 Date : 20.10.96 18:43:19 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
171 8550 44154 19480
00 44

25695 Date : 21.10.96 16:40:46 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
170 127 165 128
00 00

25695 Date : 21.10.96 18:22:02 LC : 3 IQ : 60
Lat1 : 20.887N Lon1 : 156.197W
171 89 165 128
00 00

25695 Date : 21.10.96 22:51:35 LC : B IQ : 00
 Lat1 : 20.942N Lon1 : 156.199W
 172 455 164 129
 00 02

25695 Date : 22.10.96 00:32:00 LC : 3 IQ : 68
 Lat1 : 20.941N Lon1 : 156.267W
 173 64 164 129
 00 20

25695 Date : 24.10.96 00:13:23 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 171 2736 1001 21
 00 00

25695 Date : 24.10.96 04:51:11 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 00 2706 1001 21
 00 02

25695 Date : 25.10.96 16:54:35 LC : A IQ : 00
 Lat1 : 18.174N Lon1 : 143.634W Lat2 : 20.966N Lon2 : 156.42
 170 2594 2114 10
 00 00

*note due count 12hrs
 way down : not allowing*

25695 Date : 29.10.96 04:41:33 LC : A IQ : 00
 Lat1 : 20.941N Lon1 : 156.423W
 172 2098 2110 10
 00 00

25695 Date : 31.10.96 16:28:15 LC : B IQ : 00
 Lat1 : 20.880N Lon1 : 156.417W
 172 2171 1606 13
 00 00

25695 Date : 30.10.96 22:53:17 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 173 1771 1382 15
 00 00

25695 Date : 02.11.96 17:16:15 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 173 17802 1747 12
 00 16

25695 Date : 04.11.96 18:19:35 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ???????
 235 9633 49615 2124
 00 08

25695 Date : 04.11.96 23:35:45 LC : B IQ : 00
 Lat1 : 20.769N Lon1 : 156.255W
 172 2096 833 25
 00 00

25695 Date

25695 Date : 05.11.96 16:18:18 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 2695 1906 11
00 02

25695 Date : 05.11.96 17:57:05 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
173 1439 1906 11
00 00

25695 Date : 06.11.96 17:27:05 LC : Z IQ : 10
Lat1 : 21.443N Lon1 : 156.907W
173 1426 1903 11
01 00

25695 Date : 07.11.96 11:49:14 LC : A IQ : 00
Lat1 : 20.964N Lon1 : 156.646W
173 2559 2095 10
00 00

25695 Date : 07.11.96 17:16:42 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
173 1049 2095 10
00 00

~~Not plotted~~ ↓

25695 Date : 09.11.96 18:08:47 LC : (A) IQ : 00
Lat1 : 20.920N Lon1 : 156.508W
172 2443 2099 10
00 00

25695 Date : 11.11.96 11:07:04 LC : B IQ : 00
Lat1 : 20.861N Lon1 : 156.201W
169 05 1048 20
00 01

25695 Date : 11.11.96 19:01:45 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
171 282 1048 20
00 02

25695 Date : 12.11.96 17:02:47 LC : B IQ : 00
Lat1 : 20.836N Lon1 : 156.602W
170 147 365 57
00 02

25695 Date : 12.11.96 23:51:58 LC : B IQ : 00
Lat1 : 20.923N Lon1 : 156.072W
171 2879 268 78
00 00

25695 Date : 13.11.96 12:25:08 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
170 3628 1917 11
00 00

25695 Date : 13.11.96 16:36:47 LC : B IQ : 00
Lat1 : 20.967N Lon1 : 156.152W
00 3832 1917 11
00 01

25695 Date : 13.11.96 18:22:21 LC : B IQ : 00
Lat1 : 20.846N Lon1 : 156.536W
170 1952 1917 11
00 00

25695 Date : 14.11.96 23:28:28 LC : A IQ : 00
Lat1 : 20.844N Lon1 : 156.492W
171 2466 494 40
00 16

25695 Date : 17.11.96 18:28:44 LC : A IQ : 00
Lat1 : 21.049N Lon1 : 156.706W
171 06 2330 09
00 03

25695 Date : 19.11.96 17:48:11 LC : 2 IQ : 50
Lat1 : 20.939N Lon1 : 156.478W
171 05 2111 10
00 01

25695 Date : 21.11.96 04:40:57 LC : B IQ : 00
Lat1 : 21.040N Lon1 : 156.321W
00 2959 1595 32781
01 02

25695 Date : 21.11.96 18:44:02 LC : Z IQ : 01
Lat1 : 20.201N Lon1 : 157.102W
169 1726 2331 329
00 48

25695 Date : 22.11.96 12:34:08 LC : B IQ : 00
Lat1 : 20.855N Lon1 : 156.457W
169 1017 2635 08
00 00

25695 Date : 22.11.96 23:44:31 LC : B IQ : 00
Lat1 : 20.902N Lon1 : 156.456W
169 2458 1299 16
00 00

25695 Date : 24.11.96 17:44:10 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
168 2988 586 40134
02 29

25695 Date : 25.11.96 17:14:28 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
169 985 2647 08
00 00

25695 Date : 27.11.96 18:09:04 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
168 1770 2089 58
01 11

25695 Date : 29.11.96 12:50:41 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
167 3304 2098 10
00 00

25695 Date

25695 Date : 29.11.96 17:26:39 LC : Z IQ : 10
Lat1 : 22.020N Lon1 : 160.924W
167 07 2098 16906
00 00

25695 Date : 30.11.96 04:44:58 LC : B IQ : 00
Lat1 : 21.269N Lon1 : 156.120W
00 2419 1891 2059
00 02

25695 Date : 04.12.96 04:52:38 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 2879 49167 65472
00 00

25695 Date : 06.12.96 18:19:28 LC : B IQ : 00
Lat1 : 20.917N Lon1 : 156.478W
168 1024 404 54
00 00

25695 Date : 07.12.96 00:33:31 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
169 2339 1041 20
00 00

25695 Date : 08.12.96 05:03:19 LC : B IQ : 00
Lat1 : 20.806N Lon1 : 156.675W
00 3459 2345 09
00 02

25695 Date : 10.12.96 04:25:03 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 2484 729 29
00 02

25695 Date : 10.12.96 23:53:04 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
168 1360 839 25
00 00

25695 Date : 12.12.96 23:28:06 LC : B IQ : 00
Lat1 : 20.917N Lon1 : 156.384W
168 05 913 23
00 02

25695 Date : 21.12.96 23:27:17 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
168 36 501 42
00 00

25695 Date : 23.12.96 04:43:21 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 2423 776 27
00 14

25695 Date : 27.12.96 17:20:39 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
167 07 3549 06
00 02

25695 Date : 29.12.96 04:07:19 LC : A IQ : 60
Lat1 : 25.510N Lon1 : 134.971W Lat2 : 22.223N Lon2 : 158.006W
167 3443 2639 08
00 00

off the map!
Act

25695 Date : 30.12.96 17:48:34 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 875 1003 21
00 00

25695 Date : 01.01.97 11:59:33 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 3437 3032 07
00 00

25695 Date : 02.01.97 00:54:07 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 1339 3542 06
00 00

25695 Date : 02.01.97 18:29:08 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 05 2644 08
00 00

25695 Date : 04.01.97 05:17:44 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
00 2485 1901 11
00 03

25695 Date : 07.01.97 04:09:54 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
00 2803 673 159
00 01

25695 Date : 10.01.97 17:14:04 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 3202 2336 09
00 00

25695 Date : 16.01.97 23:52:30 LC : A IQ : 60
Lat1 : 24.135N Lon1 : 142.434W Lat2 : 21.026N Lon2 : 156.32E
166 2910 2340 269
00 06

25695 Date : 15.01.97 04:35:50 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 2788 2107 10
00 00

25695 Date : 18.11.96 16:35:09 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
00 3459 2328 09
00 01

25695 Date : 21.01.97 11:38:20 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ????????
166 2728 955 22
01 00

25695 Date

GO TO PAGE

F A X
.....

Date 12/5/96

To: George Balazs

Fax #: (808) 943-1290

From: Larry Katchura

Pages: 1

Subject: Data logger

Hi George,

We're still monitoring emergence at Hanalei. We anticipated the last nest to hatch by next week - We will then break camp & retrieve everything including the data logger - By the way, we continue to receive complaints about tourist & local harassment of the nesting turtles at Punaluu - I feel that effective interpretation/education is needed - What do you think?

See ya!
Larry

Department of the Interior
National Park Service
Hawaii Volcanoes National Park/
Resources Management Division
alt. P.O. Box 52, Hawaii National Park, HI 96718-0052
Location: Hawaii Volcanoes National Park, Building 322
Voice: (808) 967-8228 Fax: (808) 985-8614

FROM : HAWAII WILDLIFE FUND

PHONE NO. : 808 293 9558

Jan. 10 1997 09:12AM P

25695

1/10/96

FAX FOR: George Balazs

FROM: Bill Gimartin

We've "lost" the Kahului turtle -!
Please fax any recent (last 2 weeks)
satellite fix info to Hannah or me.

Thanks.

Bill

33



PTT TRANSMITTER TEST DATA

FINAL TEST DATE: _____ PAGE 1 OF 1

STATE: HI AGENCY: _____

PTT DUTY CYCLE: _____
*Hauksbill
8/96 Kanehane*

CUSTOMER: George Bolaz CUSTOMER #: 15069

WORK ORDER #: 950817006 SPECIES: Sea Turtle

CONFIGURATION: ST-14 ANTENNA: TASNETEXT

ATTACHMENT: _____

REMARKS: _____

OPERATIONAL LIFE: _____ @ _____ mSec; _____ @ _____ mSec; _____ @ _____ mSec

ID CODE	SYSTEM NUMBER	PTT		VHF SERIAL NUMBER	XMTR FREQUENCY (MHz)		PULSE WIDTH	PERIOD DATA (mSec/BPM)			DELAY TIME H/M/S	MAG TST
		RF BOARD S/N	BATTERY S/N		DESIGNED FREQUENCY	ACTUAL FREQUENCY		ACTIVE PERIOD 1	ACTIVE PERIOD 2	INACTIVE PERIOD		
		Digital										
24191	370084A	370084A										

REV 9.98

Software Name...: ST950823
System Number...: 370084
Date Programed...: 10-12-95

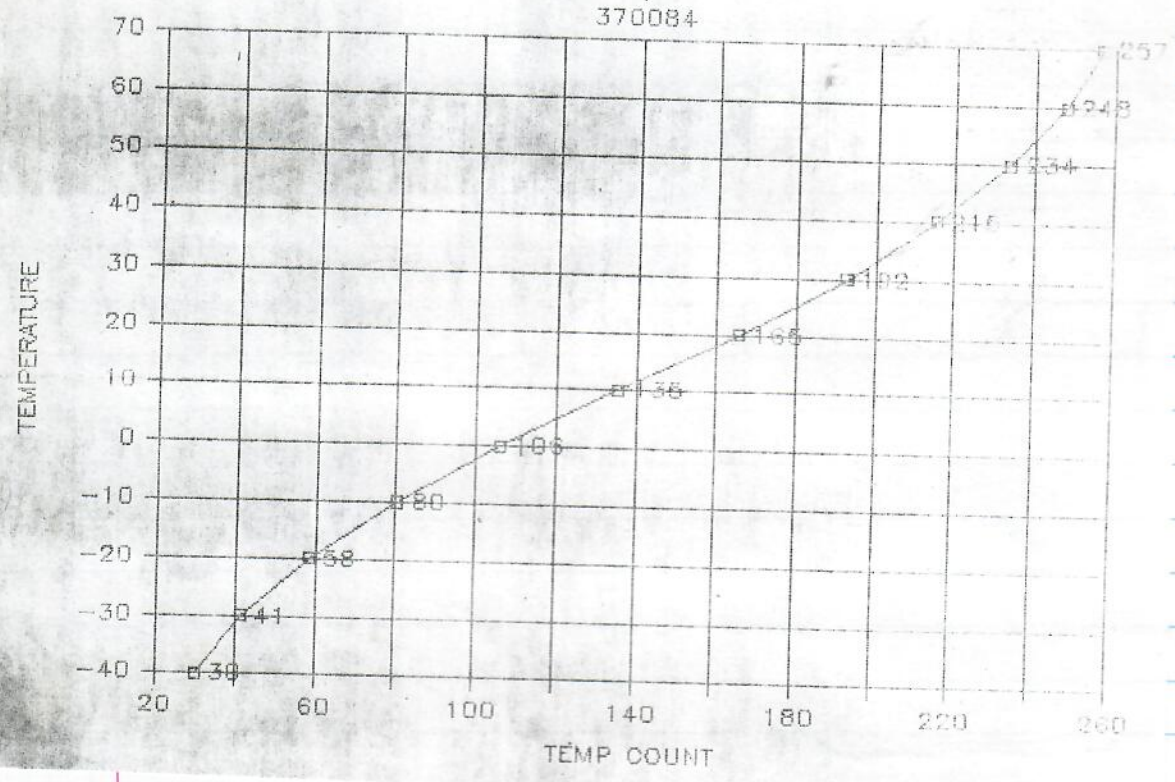
25605

ID Code..... 24191
 Message Length..... 8 bytes
 Repetition Rate..... 45 sec
 Power Up Transmit Time..... 0 hrs
 Transmit Date & Time @ Start Up..... No
 Magnet Restart time..... 5 sec
 Magnet Stop time..... 30 sec
 Seal Dive Time..... 10 sec
 Salt Water Switch Averaging Interval..... 12 hrs
 Salt Water Switch Averaging Offset..... 0 hrs
 Clear Last Dive Time after Transmission..... NO
 Salt Water Switch Failsafe Time Out..... 24 hrs
 Seasonal Shut-down option..... DISABLED
 Season Table Type..... Seasons specified in number of day

Season 1 6535 days	Season 2 0 days	Season 3 0 days	Season 4 0 days
On/Off Hours	On/Off Hours	On/Off Hours	On/Off Hours
3/ 3	0/ 0	0/ 0	0/ 0
0/ 0	0/ 0	0/ 0	0/ 0
0/ 0	0/ 0	0/ 0	0/ 0
0/ 0	0/ 0	0/ 0	0/ 0

24191

TEMP/OSC
370084



HAWAII WILDLIFE FUND

55-472 A PALEKANA ST.
LAIE, HI 96762
(808) 293-9558 (VOICE AND FAX)Reduce
to post

FAX TRANSMISSION

TO: GEORGE Balazs 24191

FAX NUMBER:

FROM: BILL GILMARTIN

RE: Hamakua turtle

PARFR: 1

DATE: 10-9-96

SUBJECT:

I just returned earlier this week from W. coast. Talked to Risa this am. She made first contact with 24191 last Sun afternoon, 1300-1600. She was in a small bay near Pa'auilo, 100m from shore. She surfaced about once an hour for 3-4 min. Risa was able to visually see her, but she did not have binoculars along, so could not inspect gear. She'll check there again this coming weekend and I'll be going over there 10/18-23 and will take cables for directional antennas and the GPS unit. I leave Sun. mid-day for Midway (→ 10/16), call me if you have a chance before I leave. -Bill

24191

Deployed Kamehame

(Migrated to Peavilo,
SCL=824/Hamakua Coast, Big Is)

8/30/96 825 am HST

8/30 1825 GMT

TENT

24191 Date : 30.08.96 12:41:36 LC : 2 IQ : 50
Lat1 : 19.148N Lon1 : 155.481W
165 00 00 00
00 00

24191 Date : 30.08.96 17:20:13 LC : 0 IQ : 58
Lat1 : 19.029N Lon1 : 154.925W
170 00 1024 00
00 00

24191 Date : 31.08.96 16:57:37 LC : A IQ : 00
Lat1 : 19.126N Lon1 : 155.511W
179 175 1403 15
00 00

24191 Date : 31.08.96 23:47:03 LC : B IQ : 00
Lat1 : 19.008N Lon1 : 155.793W
183 329 132 160
00 00

24191 Date : 01.09.96 16:36:03 LC : 1 IQ : 60
Lat1 : 18.912N Lon1 : 155.676W
179 192 113 185
02 05

24191 Date : 01.09.96 18:15:27 LC : 3 IQ : 68
Lat1 : 18.921N Lon1 : 155.689W
181 71 113 185
00 01

24191 Date : 01.09.96 23:31:13 LC : A IQ : 08
Lat1 : 18.967N Lon1 : 155.787W
185 45 101 207
00 00

24191 Date : 02.09.96 16:14:17 LC : B IQ : 00
Lat1 : 19.034N Lon1 : 155.843W
180 364 119 173
00 00

24191 Date : 02.09.96 17:49:38 LC : B IQ : 00
Lat1 : 19.035N Lon1 : 155.878W
181 116 119 173
00 01

24191 Date : 02.09.96 23:21:42 LC : 1 IQ : 66
Lat1 : 19.077N Lon1 : 155.922W
185 125 105 193
00 00

24191 Date : 03.09.96 17:31:51 LC : A IQ : 00
Lat1 : 20.309N Lon1 : 160.627W Lat2 : 19.184N Lon2 : 155.910W
181 58 131 158
00 00

B706/EXISTING
R109
NEW B570

ORIG
tagged
8/31/93

(see
p.18)

24191 Date : 04.09.96 00:51:26 LC : 2 IQ : 68
Lat1 : 19.320N Lon1 : 155.891W
185 53 161 132
00 00

24191 Date : 04.09.96 17:11:04 LC : 2 IQ : 68
Lat1 : 19.437N Lon1 : 155.923W
182 42 120 176
00 00

24191 Date : 04.09.96 18:48:53 LC : 2 IQ : 68
Lat1 : 19.462N Lon1 : 155.932W
183 50 120 176
00 00

24191 Date : 04.09.96 23:01:09 LC : 2 IQ : 68
Lat1 : 19.530N Lon1 : 155.973W
185 11 151 140
00 01

24191 Date : 05.09.96 04:22:06 LC : B IQ : 00
Lat1 : 19.622N Lon1 : 155.936W
183 78 151 140
00 00

24191 Date : 06.09.96 16:27:12 LC : B IQ : 00
Lat1 : 19.898N Lon1 : 155.904W
182 189 125 169
00 00

24191 Date : 06.09.96 18:08:18 LC : B IQ : 00
Lat1 : 19.916N Lon1 : 155.884W
183 389 125 169
00 02

24191 Date : 07.09.96 17:42:16 LC : A IQ : 00
Lat1 : 20.116N Lon1 : 155.890W
183 172 136 155
00 00

24191 Date : 05.09.96 16:46:32 LC : 3 IQ : 60
Lat1 : 19.688N Lon1 : 156.039W
182 115 139 151
00 01

24191 Date : 06.09.96 00:30:33 LC : B IQ : 00
Lat1 : 19.908N Lon1 : 156.040W
185 308 147 144
00 01

24191 Date : 06.09.96 04:00:08 LC : A IQ : 08
Lat1 : 19.863N Lon1 : 155.949W
182 61 147 144
00 01

24191 Date : 06.09.96 05:39:41 LC : 1
Lat1 : 19.854N Lon1 : 155.932W
182 181 147 144
00 00

25504

Used

24191 Date : 08.09.96 23:58:53 LC : B IQ : 00
Lat1 : 20.152N Lon1 : 155.676W Lat2 : 21.245N Lon2 : 150.636W
181 39 197 107
00 00

24191 Date : 09.09.96 16:57:01 LC : B IQ : 00
Lat1 : 20.142N Lon1 : 155.961W
179 30 116 182
00 00

24191 Date : 09.09.96 18:40:53 LC : B IQ : 00
Lat1 : 20.181N Lon1 : 155.502W
179 553 116 182
00 00

24191 Date : 11.09.96 17:53:27 LC : A IQ : 00
Lat1 : 19.981N Lon1 : 155.220W
178 2081 1907 11
00 00

24191 Date : 11.09.96 16:19:19 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 777 1907 11
00 00

24191 Date : 15.09.96 04:05:48 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 2185 995 21
00 00

24191 Date : 15.09.96 22:41:53 LC : A IQ : 00
Lat1 : 20.040N Lon1 : 155.357W
179 1568 1388 15
00 00

24191 Date : 16.09.96 00:25:11 LC : A IQ : 08
Lat1 : 20.056N Lon1 : 155.370W
180 208 34208 4108
00 37

24191 Date : 16.09.96 11:13:50 LC : B IQ : 00
Lat1 : 20.095N Lon1 : 155.387W
178 2052 143 144
00 00

24191 Date : 16.09.96 11:13:50 LC : B IQ : 00
Lat1 : 20.095N Lon1 : 155.387W
178 2052 143 144
00 00

24191 Date : 17.09.96 00:09:27 LC : B IQ : 00
Lat1 : 20.123N Lon1 : 155.081W
180 1036 610 34
00 00

24191 Date : 17.09.96 12:47:23 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 2016 801 26
00 00

24191 Date : 18.09.96 04:33:47 LC : A IQ : 00
Lat1 : 20.045N Lon1 : 155.451W
178 1593 1089 19
00 00

24191 Date : 18.09.96 18:40:34 LC : B IQ : 00
Lat1 : 20.058N Lon1 : 155.287W
178 615 651 32
00 00

24191 Date : 18.09.96 23:52:40 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
180 463 829 25
00 00

24191 Date : 19.09.96 04:11:19 LC : B IQ : 00
Lat1 : 20.040N Lon1 : 155.460W
00 1722 829 25
00 03

24191 Date : 19.09.96 16:38:34 LC : B IQ : 00
Lat1 : 20.050N Lon1 : 155.513W
178 793 802 26
00 00

24191 Date : 21.09.96 17:35:29 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 737 1605 13
00 00

24191 Date : 22.09.96 17:14:51 LC : B IQ : 00
Lat1 : 20.146N Lon1 : 155.783W
178 387 1157 18
00 00

24191 Date : 23.09.96 00:51:06 LC : B IQ : 00
Lat1 : 20.087N Lon1 : 155.488W
179 801 664 31
00 00

24191 Date : 23.09.96 18:30:42 LC : Z IQ : 10
Lat1 : 27.933N Lon1 : 168.990E Lat2 : 20.036N Lon2 : 155.1
179 900 1153 18
00 00

24191 Date : 24.09.96 18:14:52 LC : B IQ : 00
Lat1 : 20.118N Lon1 : 155.483W
178 1089 1087 19
00 00

24191 Date : 27.09.96 17:06:39 LC : B IQ : 00
Lat1 : 20.101N Lon1 : 155.426W
178 862 893 10586
01 20

24191 Date : 21.09.96 17:35:29 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????

25606

24191 Date : 28.09.96 23:37:25 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 179 949 682 30
 00 00

24191 Date : 29.09.96 23:29:11 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 179 717 813 25
 00 00

24191 Date : 30.09.96 23:19:58 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 180 825 538 38
 00 00

24191 Date : 02.10.96 18:35:59 LC : A IQ : 00
 Lat1 : 20.130N Lon1 : 155.201W
 179 794 790 26
 00 00

LOGGED

24191 Date : 02.10.96 22:58:07 LC : A IQ : 00
 Lat1 : 20.038N Lon1 : 155.367W
 180 1144 814 25
 00 00

LOGGED

24191 Date : 04.10.96 16:11:25 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 00 445 33688 2069
 00 06

24191 Date : 05.10.96 00:22:18 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 179 359 601 34
 00 00

24191 Date : 05.10.96 12:45:14 LC : Z IQ : 10
 Lat1 : 22.016N Lon1 : 161.718W Lat2 : 19.950N Lon2 : 155.226W
 179 1569 607 34
 00 00

24191 Date : 05.10.96 17:33:14 LC : B IQ : 00
 Lat1 : 20.075N Lon1 : 155.393W
 179 477 607 34
 00 00

24191 Date : 06.10.96 00:04:46 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 180 604 454 45
 00 00

24191 Date : 06.10.96 17:14:08 LC : Z IQ : 10
 Lat1 : 19.322N Lon1 : 152.279W
 179 1485 624 33
 00 00

24191 Date : 07.10.96 12:26:59 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ?????????
 178 2921 1038 20
 00 00

24191 Date : 07.10.96 16:50:26 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 394 1038 20
00 02

24191 Date : 10.10.96 11:53:58 LC : B IQ : 00
Lat1 : 20.083N Lon1 : 155.484W Lat2 :
177 1558 976 21
00 00

24191 Date : 11.10.96 16:57:07 LC : B IQ : 00
Lat1 : 19.940N Lon1 : 155.873W
177 640 755 27
00 00

24191 Date : 12.10.96 00:39:37 LC : B IQ : 00
Lat1 : 20.052N Lon1 : 155.278W
178 07 968 21
00 59

24191 Date : 12.10.96 18:14:30 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 773 849 24
00 00

24191 Date : 13.10.96 17:53:09 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
179 629 890 23
00 00

24191 Date : 13.10.96 22:38:40 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
179 33644 923 22
00 00

24191 Date : 14.10.96 12:49:34 LC : B IQ : 00
Lat1 : 19.698N Lon1 : 154.853W
179 1816 970 21
00 00

24191 Date : 15.10.96 11:01:01 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 2145 1476 14
00 24

24191 Date : 16.10.96 04:26:31 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 1267 1216 17
00 07

24191 Date : 15.10.96 23:53:39 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1010 1216 17
00 00

24191 Date : 17.10.96 03:58:03 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 1288 967 21
00 06

24191 Date : 17.10.96 05:42:32 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1647 967 21
00 00

RECORDED

24191 Date : 18.10.96 12:11:17 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 2080 1894 11
00 00

24191 Date : 18.10.96 23:21:04 LC : (A) IQ : 60
Lat1 : 20.065N Lon1 : 155.642W
179 1447 812 4118
00 00

24191 Date : 20.10.96 23:02:23 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
179 1461 1072 19
00 00

24191 Date : 21.10.96 22:57:10 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
187 858 4973 26233
01 26

24191 Date : 22.10.96 00:38:30 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 897 1285 16
00 00

24191 Date : 22.10.96 05:30:45 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1542 1285 16
00 00

24191 Date : 22.10.96 22:45:12 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1055 1468 14
01 01

24191 Date : 23.10.96 00:24:44 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 794 42409 41732
01 32

24191 Date : 23.10.96 17:33:18 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 1014 1217 17
00 00

24191 Date : 24.10.96 04:50:32 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 1360 1205 17
00 32

24191 Date : 25.10.96 04:23:23 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 1146 1375 15
00 06

24191 Date : 01.11.96 00:23:56 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 819 1131 18
00 00

24191 Date : 30.10.96 16:41:27 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 465 1152 18
00 00

24191 Date : 31.10.96 00:39:17 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1160 1075 (19)
00 00

24191 Date : 01.11.96 17:42:17 LC : (A) IQ : 60
Lat1 : 20.049N Lon1 : 155.364W
177 1080 4398 1141
03 04

24191 Date : 02.11.96 00:19:08 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 1093 1078 19
00 00

24191 Date : 02.11.96 12:47:42 LC : (A) IQ : 00
Lat1 : 21.143N Lon1 : 160.235W
177 1742 1088 19
00 00

24191 Date : 02.11.96 17:23:53 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 641 1088 19
00 00

24191 Date : 03.11.96 23:53:57 LC : (B) IQ : 00
Lat1 : 20.012N Lon1 : 155.426W
178 17247 1130 18
00 00

24191 Date : 03.11.96 06:13:51 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 9287 30841 9217
01 57

24191 Date : 04.11.96 04:11:07 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1200 1130 18
00 04

24191 Date : 04.11.96 05:50:43 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
178 1469 1130 18
00 00

24191 Date : 07.11.96 04:40:07 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
177 1209 887 23
00 00

24191 Date : 20.11.96 00:20:19 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
179 902 18964 1172
01 12

24191 Date : 21.11.96 00:06:54 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
176 2948 2601 08
00 00

24191 Date : 19.11.96 00:29:29 LC : B IQ : 00
Lat1 : 20.048N Lon1 : 155.364W

RECORDED

24191 Date : 21.11.96 23:56:09 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
175 1120 981 21
00 00

24191 Date : 04.01.97 00:31:13 LC : Z IO : 00
Lat1 : ??????? Lon1 : ???????
173 637 1222 17
00 00

24191 Date : 16.01.97 23:47:18 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
174 2707 2074 9218
03 24

101

No VHF By students since ~ 3/18/97

24191 Date : 30.04.97 07:03:45 LC : Z IQ : 00
209 18933 19968

24191 Date : 06.05.97 00:04:11 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
Nb mes : 001 Nb mes>-120dB : 000 Best level : -134 dB
Pass duration : ? s NOPC : ?
Calcul freq : 401 650000.0 Hz Altitude : 0 m
175 551 699 29
00 00

F A X
.....

Department of the Interior
National Park Service
Hawaii Volcanoes National Park/
Resources Management Division
Mail: P.O. Box 52, Hawaii National Park, HI 96718-0052
Location: Hawaii Volcanoes National Park, Building 322
Voice: (808) 967-8226 Fax: (808) 985-8814

Date 14 Nov. 96

To: George Balazs

Fax #: (808) 943-1290

From: Harry Katsuhira

Pages: 1

Subject: Kamehame

Hi George,
many thanks for the maps - Excellent info!

The last nest at Kamehame was by 25695 on Oct. 8. We will continue to monitor Kamehame until this nest emerges, probably early December. At that time we will retrieve your temp. loggers.

By the way, a fairly large green sea turtle has been seen in the "same pond" as last year. Our volunteers have seen this turtle over the past few weeks - most recently yesterday. It's the pond located near Hinok. Any ideas on how to capture this turtle? Again, let's give it a consideration -

See ya,
Harry

TO 1 800 633 638488943 P.01

FROM RESOURCES MGMT-HAWAII NOV-14-1996 09:30

Date 26 Nov. 1996

47

To: George Balazs, NMFS, Honolulu

Fax #: 1-808-943-1290

From: Donna O'Daniel
Hawksbill Sea Turtle Project

Pages: 1

Subject: Press Release

George,

I would like to issue a press release soon (within 2 weeks) covering some of the data from the hawksbill nesting season and also the satellite transmitter work and where our 2 turtles are now. Would you like to have any input on this? Or give us some comments that we could use in quoting you in the article? Would you like to see it before I send it to the papers? I'm going to release it to the Honolulu Advertiser as well as the papers here on the Big Island.

Thanks for any input and direction you can give. I trust things are well with you. Have a wonderful Thanksgiving.

HAWAII WILDLIFE FUND

55-472 A PALEKANA ST.

LAIE, HI 96782

(808) 293-9558 (VOICE AND FAX)

FAX TRANSMISSION

TO: Larry Katahira
 FAX NUMBER: 985-8614
 FROM: Bill Gilmartin
 RE: Hawksbills tracking/media
 PAGES: 1
 DATE: November 29, 1996

To:
BALAZS

Geo - call me if
 you see problem
 here!

COMMENTS:

George Balazs called me yesterday to discuss misc. turtle business and mentioned that the Park is considering a press release mentioning the tracking work George and I have been up to. I wanted you know that George and I discussed such a press release some weeks ago after seeing the article in Ka'u Landing (I believe that's where it appeared) on your nesting monitoring work. That article appropriately, we thought, only mentioned the nesting monitoring that you were doing, and left the responsibility to report on our side of the picture. Just last weekend I arranged for pictures to be taken by the MOP students that are doing the radio tracking work, pictures to be included with our press release. With the busy times for both of us lately (even though one of us is "retired"), George and I agreed we would draft an article during my 12/1-11 trip to Midway, then he'll review it on my return, and we'll get it out soon after that - by mid-December we hope.

Just wanted to let you know that we will be getting something out on this soon. Also, as I said in my status fax to you on Wed., I'll continue to keep you posted of any changes in turtle position, as we can tell from the radio-tracking effort.

Service Argos, Inc.

Service Argos, Inc. (SAI), is a wholly owned subsidiary of Collecte Localisation Satellite (CLS)/Service Argos, a French corporation. Operating together, SAI and CLS provide a worldwide data collection and location service consisting of the processing of in-situ data derived via satellite, signal-source positioning using Doppler or GPS, and data dissemination and archive.

The Argos system was conceived and developed in the mid 1970's by the CNES (Centre National d'Etudes Spatiales - the French space agency). Service Argos has existed as a fully operational system since 1978, and was incorporated in the state of Delaware in 1986.

The Argos system is comprised of three (3) basic components:

- 1), the data sensor/transmitter devices, which are acquired and deployed by the individual users,
- 2), the space-borne instrument, which is provided by CNES, and
- 3), the major ground data processing systems, one of which is operated by Service Argos, Inc., Landover, Maryland, USA, the other by CLS/Service Argos, Toulouse, France.

Service Argos' international space partner is the NOAA (National Oceanic and Atmospheric Administration), the owner and operator of the TIROS series of polar orbiting satellites on which the Argos instrument flies. As noted, Argos commenced operation in October 1978 with the successful launch of the protoflight TIROS-N satellite. This particular series of satellites is scheduled to continue until at least the year 2010. Future plans show an Argos instrument on all next-generation series of polar orbiting space platforms.

The Service Argos system user community is primarily comprised of governmental organizations involved in environmental science or environmental protection applications. These applications may be either research or operations based. Major fields of scientific application include oceanography (sea-surface and sub-surface), meteorology (earth-surface and upper-air), and biology (terrestrial and marine). Secondary applications exist in the seismic sciences. Environmental protection applications include oil-spill tracking, terrestrial, oceanic, or atmospheric contaminant detection, and hazardous container monitoring. Two percent of the capacity of the system can be used for government non-environmental applications, though programs in this category must be renewed yearly.

Service Argos, Inc., employs fifteen (15) full-time people. Part-time personnel are employed as required for occasional administrative support. One of the full-time employees is located in Seattle, Washington, to provide western U. S. users a convenient and timely point of contact.

See p. 7

Temp. taken every 30 minutes near nest #15

0498

25695
8/29/96

Zoom

data

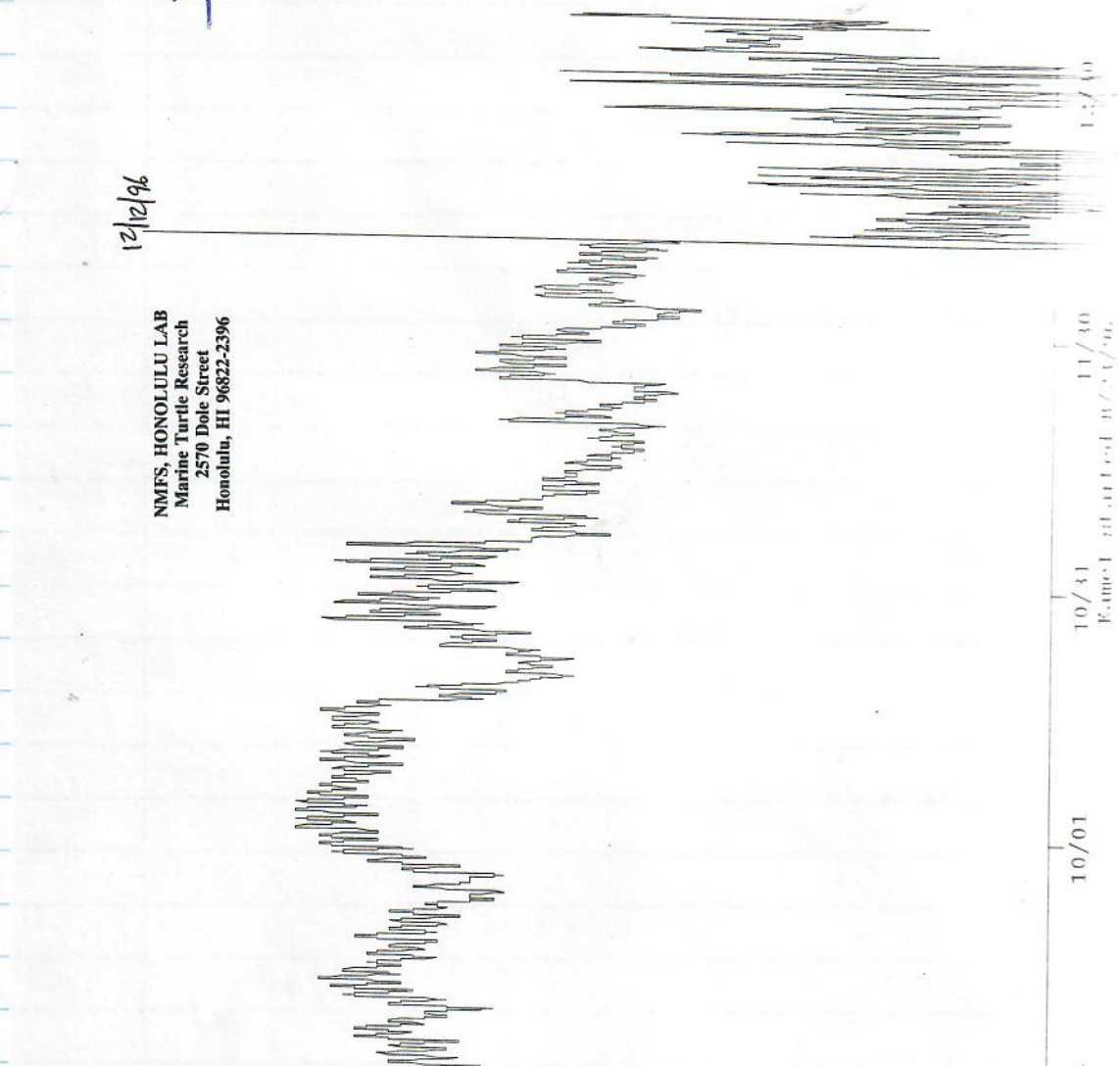
9/1/96 -
-12/12/96

12/12/96

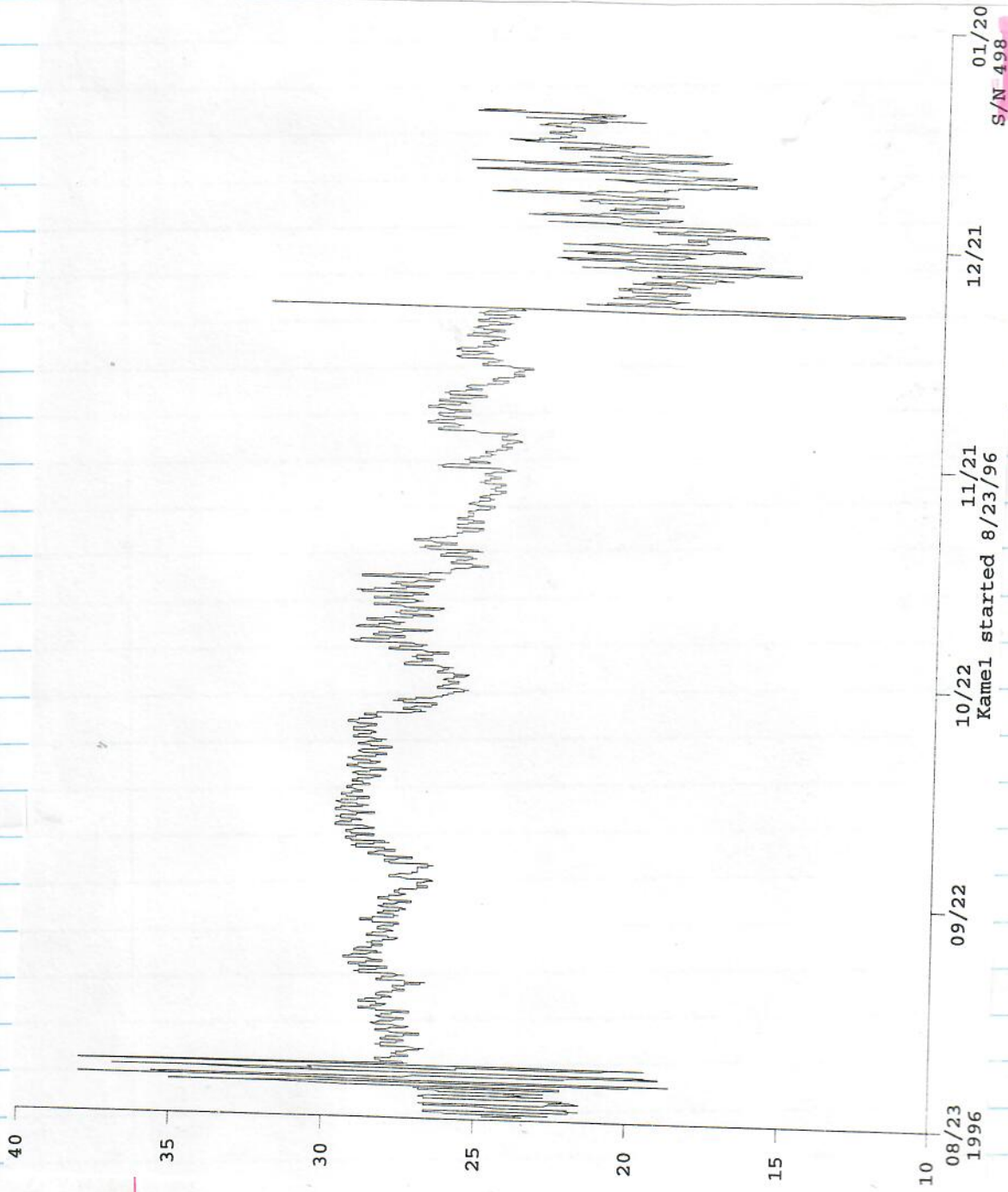
NMFS, HONOLULU LAB
Marine Turtle Research
2570 Dole Street
Honolulu, HI 96822-2396

34
32
30
28
26
24
22
20
18

09/01
1996
10/01
10/31
11/10
11/30
12/10
12/31



01/01
01/31



S/N 498

12/21

11/21

10/22
Kamel started 8/23/96

09/22

08/23
1996

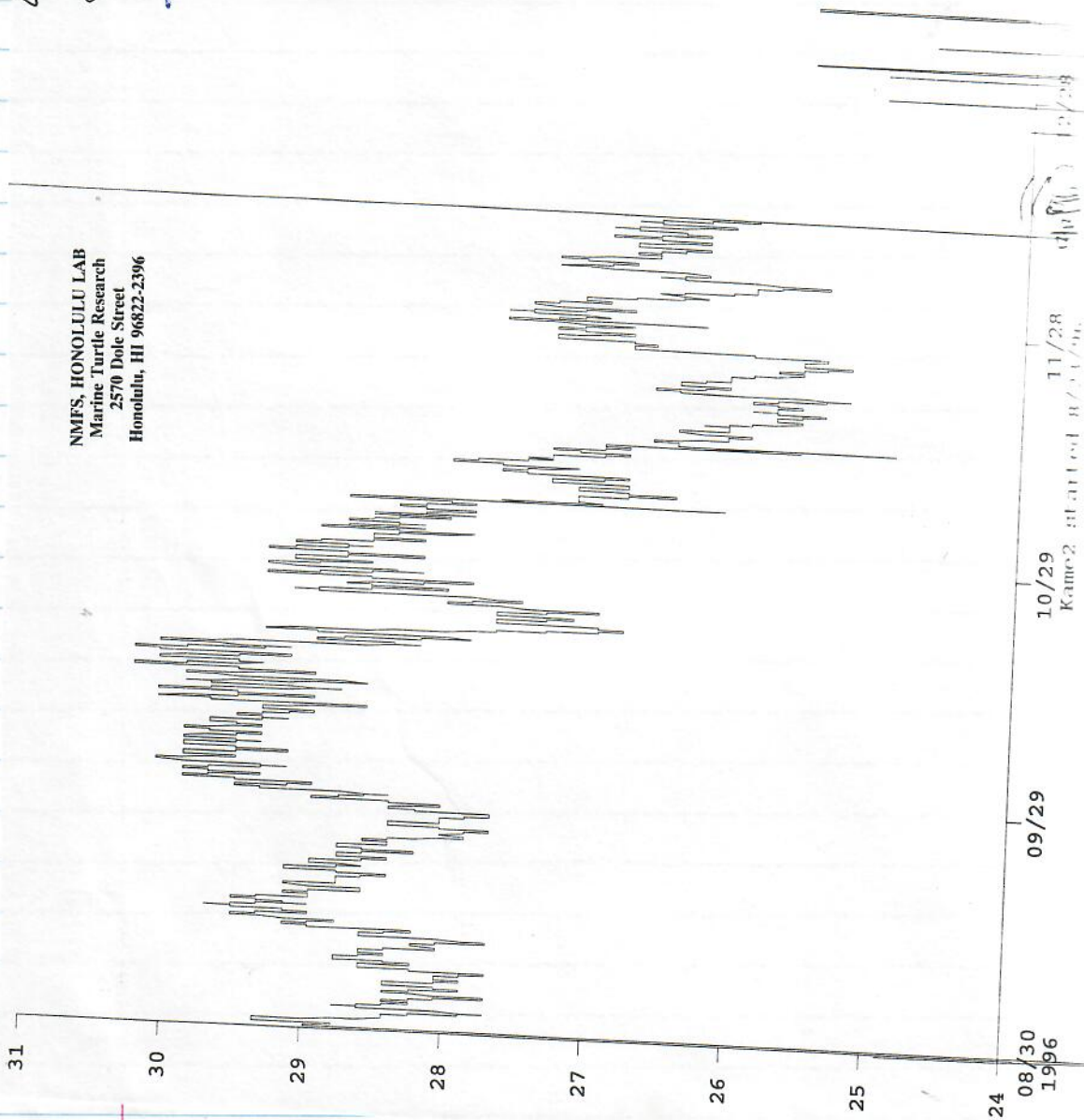
Handwritten notes:
1996/08/23
01/20
7.9

Sept. 7

0500 near nest #22
8/30/96 24191
over post

Zoom of
data from
8/30/96-12/12/96

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



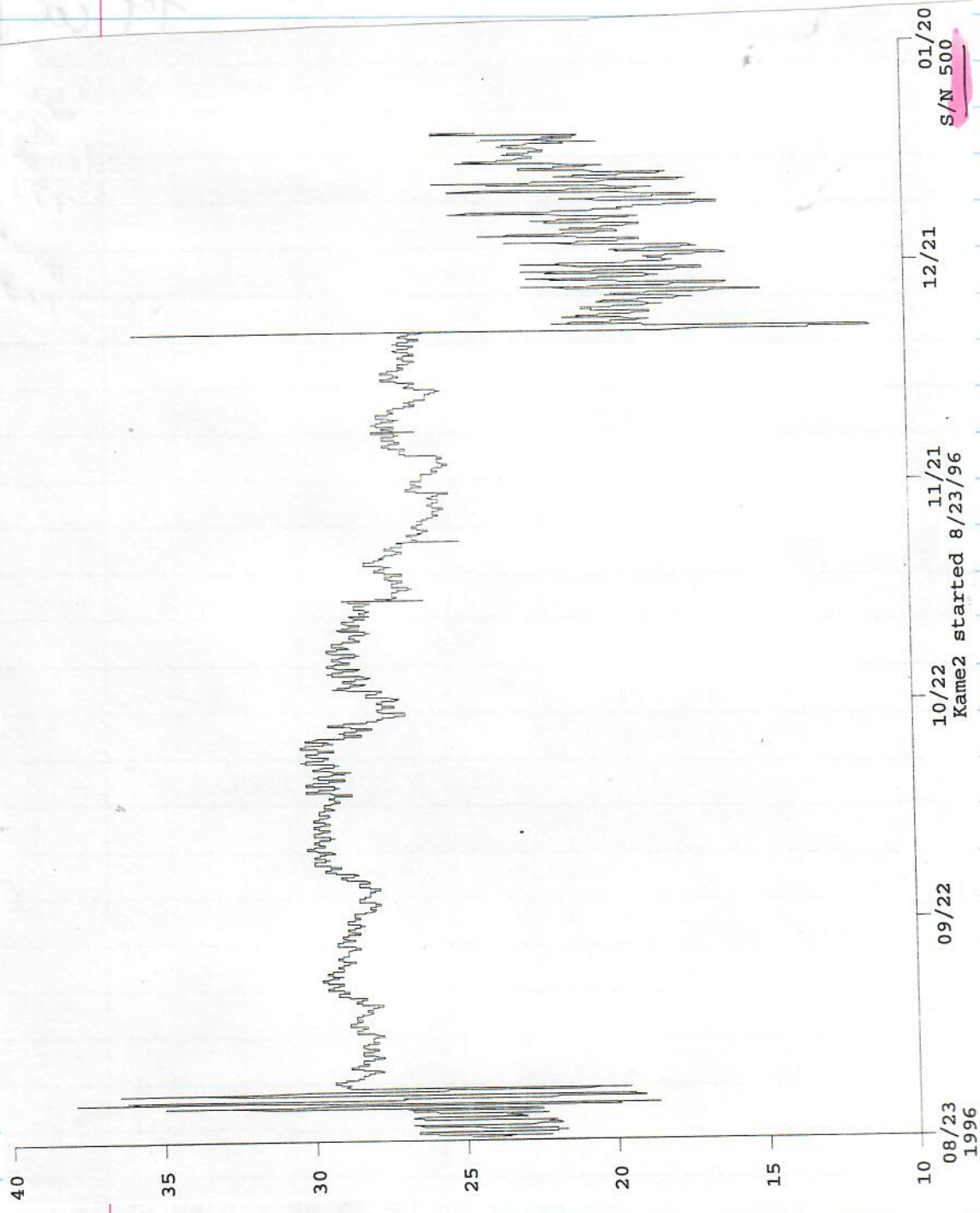
10/29
Kame 2 started B/S 11/96

09/29

08/30
1996

11/28

12/28



Not
everything
taped here

see
Backup
disk
left on
????
in man
cove

From page 30

25695 Date : 25.01.97 23:48:31 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
166 1591 2634 08
00 00

25695 Date : 26.01.97 16:24:01 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
00 4065 2348 09
00 01

25695 Date : 27.01.97 23:30:19 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
167 1195 1602 13
00 00

25695 Date : 02.02.97 18:48:57 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
165 05 1055 20
00 00

25695 Date : 06.02.97 17:18:28 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
165 3473 2341 09
00 00

25695 Date : 09.02.97 00:38:46 LC : 0 IQ : 50
Lat1 : 18.748N Lon1 : 166.109W Lat2 : 20.906N Lon2 : 156.397W
166 12 1747 12
00 00

25695 Date : 09.02.97 17:49:33 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
164 17170 2900 08
00 00

25695 Date : 15.02.97 17:25:18 LC : B IQ : 00
Lat1 : 20.971N Lon1 : 156.636W
165 2916 742 28
00 00

25695 Date : 18.02.97 00:39:23 LC : B IQ : 00
Lat1 : 20.911N Lon1 : 156.367W
165 1144 4875 40
00 00

25695 Date : 21.02.97 18:32:48 LC : B IQ : 00
Lat1 : 20.982N Lon1 : 156.458W
165 1711 1035 20
00 00

25695 Date : 28.02.97 05:12:57 LC : B IQ : 00
Lat1 : 20.932N Lon1 : 156.494W
00 2207 722 29
00 14

25695 Date : 12.03.97 23:47:55 LC : A IQ : 60
Lat1 : 23.864N Lon1 : 142.307W Lat2 : 20.814N Lon2 : 156.301W
167 1201 534 551
02 08

25695 Date : 23.03.97 17:32:04 LC : A IQ : 60
Lat1 : 23.364N Lon1 : 167.996W Lat2 : 19.050N Lon2 : 153.311W
167 30 1284 16
00 00

25695 Date : 25.03.97 00:58:28 LC : A IQ : 60
Lat1 : 16.655N Lon1 : 175.599W
168 1725 1285 35187
02 52

25695 Date : 04.03.97 17:47:43 LC : (0) IQ : 50
Lat1 : 20.567N Lon1 : 155.734W
165 2135 454 4142

25695 Date : 01.04.97 17:37:59 LC : 1 IQ : 50
Lat1 : 20.932N Lon1 : 156.441W
167 11 414 50
00 01

25695 Date : 05.04.97 00:40:55 LC : B IQ : 00
Lat1 : 20.904N Lon1 : 156.446W
166 703 1152 18
00 00

25695 Date : 08.04.97 12:43:53 LC : A IQ : 00
Lat1 : 20.908N Lon1 : 156.383W
166 2216 588 45
00 41

25695 Date : 10.04.97 23:39:57 LC : A IQ : 00
Lat1 : 21.007N Lon1 : 156.357W
167 1126 33164 2108
00 00

25695 Date : 13.04.97 18:15:14 LC : B IQ : 00
Lat1 : 20.971N Lon1 : 156.475W
165 1445 1599 13
00 00

25695 Date : 13.04.97 11:46:35 LC : B IQ : 00
Lat1 : 20.953N Lon1 : 156.488W
165 2531 1591 13
00 00

25695 Date : 13.04.97 04:08:59 LC : A IQ : 00
Lat1 : 20.914N Lon1 : 156.443W
166 610 1149 18
00 00

25695 Date : 13.04.97 11:46:35 LC : B IQ : 00
Lat1 : 20.953N Lon1 : 156.488W
165 2531 1591 13
00 00