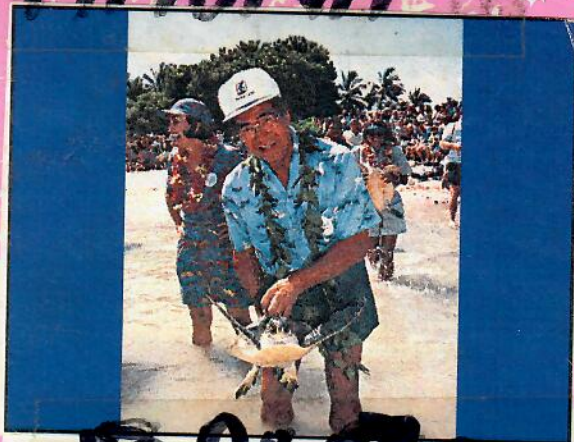


MAUNA LANI (SLP)



ARGOS
22270
R 122

TOC P. 190

ION

BALAZS

~~KAHALUU Beach Park~~

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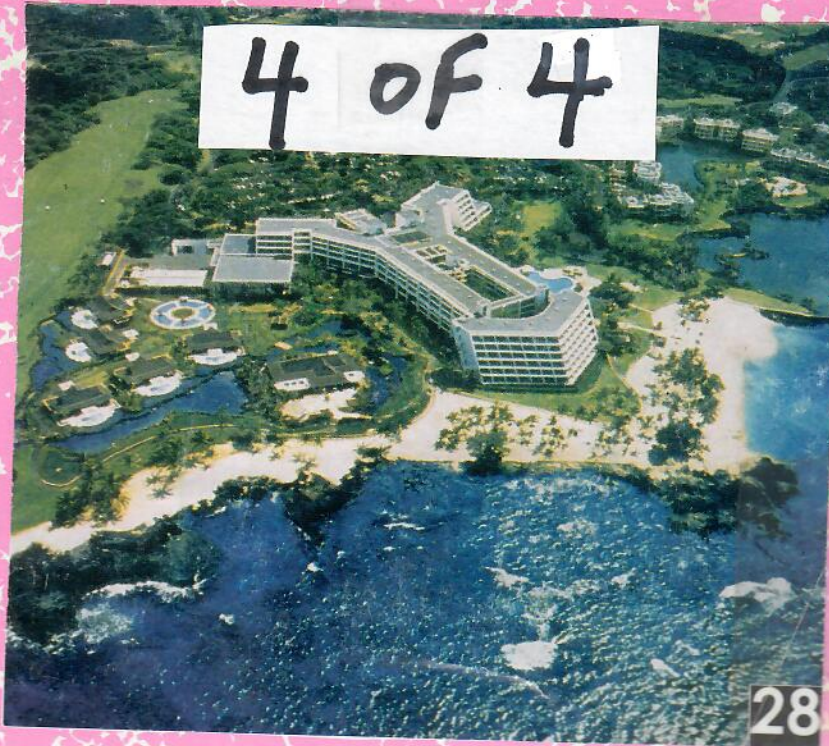
SAT
TAG
ID

22270 6/20/02 P. 122

WATSON Cell 987-0707

MARC Cellular 987-6903

4 of 4



28

N 90° 01.7217' 6/20/02
W 155° 51.540' 22270 ARGOS ID

MAUNA LANI 22270
BALAZS



Sea Life Park HAWAII

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

Gift copy

To: George Balazs Fax: 983-2902

From: Danielle Jacques Date: 9/20

Re: ~~A~~ New hatch Including cover pages: 2
began YN series

CONFIDENTIAL

Urgent For Review Please Comment Please Reply

Sea Life Park Hawaii
Animal Programs
NEW HATCHLINGS

Report by: SLP
Name : Danielle Jaques
Date : 9/20/04

Copy to: Mike O'Brien
Dr. Joseph
George Balazs

HATCH DATE	TAG #	WEIGHT	LENGTH	COMMENTS
9/20/04	YM 99	28	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 01	31	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 02	30	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 03	28	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 04	30	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 05	29	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 06	31	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 07	29	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 08	30	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 09	30	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 10	29	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 11	31	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 12	29	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 13	32	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 14	31	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 15	31	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 16	29	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 17	29	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 18	28	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 19	31	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 20	30	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 21	30	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 22	30	52	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 23	30	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 24	30	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 25	25	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 26	25	47	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 27	30	51	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 28	27	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 29	31	52	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 30	28	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 31	29	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 32	31	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 33	31	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 34	28	47	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 35	30	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 36	27	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 37	28	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 38	29	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 39	29	50	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 40	29	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 41	28	47	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 42	27	49	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 43	28	48	Release 9/20/04 at Cockroach Bay.
9/20/04	YN 44	30	51	Release 9/20/04 at Cockroach Bay.

SKM → GB



Sea Life Park

H A W A I I

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983-2902

From: Danielle Jaques Date: 8/17/04

Re: 33 New hatchlings Including cover pages: 3
and weights/measure for 20 2004 captive hatchlings

CONFIDENTIAL

<input type="checkbox"/> Urgent	<input checked="" type="checkbox"/> For Review	<input type="checkbox"/> Please Comment	<input type="checkbox"/> Please Reply
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Sea Life Park Hawaii
Animal Programs
NEW HATCHLINGS

Report by: SLP
Name : Danielle Jaques
Date : 8/17/04

Copy to: Mike Osborn
 Dr. Joseph
 George Balazs

HATCH DATE	TAG #	WEIGHT	LENGTH	COMMENTS
8/17/04	YL 69	31	52	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 70	29	50	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 71	28	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 72	31	52	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 73	23	45	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 74	30	50	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 75	26	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 76	30	52	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 77	25	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 78	26	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 79	25	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 80	29	50	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 81	30	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 82	28	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 83	29	50	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 84	26	47	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 85	26	47	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 86	24	46	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 87	27	47	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 88	28	51	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 89	27	47	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 90	27	45	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 91	28	50	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 92			TAG NOT USED
8/17/04	YL 93	29	51	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 94	25	46	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 95	26	46	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 96	26	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 97	25	45	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 98	26	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YL 99	27	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YM 01	27	48	Release 8/17/04 at Cockroach Bay.
8/17/04	YM 02	24	43	Release 8/17/04 at Cockroach Bay.
8/17/04	YM 03	24	45	Release 8/17/04 at Cockroach Bay.

SEA LIFE PARK HAWAII
ANIMAL PROGRAMS - AQUARIUM
WEEKLY GST HATCHLING REPORT

~~Shawn~~ → GB

REPORT BY: Sea Life Park
NAME: Kathary Stefane
DATE: July 4/2004
COPY TO: Mike Osborn
Dr. Joseph
George Balazs

NC25

18.4#

ID#	WEIGHT	LENGTH	COMMENTS ON DIET		
W119	8330g	41cm	hatched 8/13/02	14	JUL 2004
W135	18400	25.1	4.1# 9/2/03	14	JUL 2004
W138	18555	25.2	4.1# 9/2/03	14	JUL 2004
W171	1702	24.7	3.8# 10/2/03	14	JUL 2004
W172	1546	23.0	3.4# 10/2/03	14	JUL 2004
W178	1894	25.5	4.2# 9/17/03	14	JUL 2004
W181	1968	25.5	4.3# 11/7/03	14	JUL 2004
W183	1254	21.8	2.8# 11/7/03	14	JUL 2004
W185	1520	23.4	3.4# 11/7/03	14	JUL 2004
W186	1582	22.9	3.5# 11/7/03	14	JUL 2004
ZG49	32g	55MM	hatched 7/3/04	14	JUL 2004
ZG50	300	52	7/5/04	14	JUL 2004
ZG51	30	50.5		14	JUL 2004
ZG52	32	52		14	JUL 2004
ZG53	30	52		14	JUL 2004
ZG54	34	5.0		14	JUL 2004
ZG55	28	5.0		14	JUL 2004
ZG56	36	51.5		14	JUL 2004
ZG57	28	50.5		14	JUL 2004
ZG58	32	52		14	JUL 2004
ZG59	28	49		14	JUL 2004
ZG60	32	52		14	JUL 2004
ZG61	30	51		14	JUL 2004
ZG62	30	50		14	JUL 2004
ZG63	28	52		14	JUL 2004
ZG64	30	50		14	JUL 2004
ZG65	30	5.1		14	JUL 2004
ZG66	28	50		14	JUL 2004

Keeping @ SLP



Sea Life Park

H A W A I I

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983-2902

From: Danielle Jaques Date: 7/6/04

Re: Current weight/measure Including cover pages: 2
and new hatchlings!

CONFIDENTIAL

<input type="checkbox"/> Urgent <input checked="" type="checkbox"/> For Review <input type="checkbox"/> Please Comment <input type="checkbox"/> Please Reply
--



Sea Life Park HAWAII

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983 2902

From: Danielle Jaques Date: 7/20/04

Re: released hatchlings Including cover pages: 3
and updated weights/measure
from last yr / this yr. **CONFIDENTIAL**
hatchlings

Urgent For Review Please Comment Please Reply

SEA LIFE PARK HAWAII
ANIMAL PROGRAMS - AQUARIUM
WEEKLY GST HATCHLING REPORT

REPORT BY: Sea Life Park
NAME: Bethany Stefanec
DATE: 7-18-04
COPY TO: Mike Osborn
George Balazs
Dr. Brian Joseph

ID#	WEIGHT	LENGTH	COMMENTS ON DIET	
W1-19	8580g	41.5cm	hatched	8-13-02
W1-35	2045 ^g	26.1		9-2-03
W1-38	2005	25.6		9-2-03
W1-71	1920	24.8		10-2-03
W1-72	1660	23.7		10-2-03
W1-78	2010	28		9-17-03
W1-81	2160	26.1		11-7-03
W1-83	1344	22.5		11-7-03
W1-85	1710	24		11-7-03
W1-86	1506	23.7		11-7-03
ZG-49	42g	57mm	hatched	7-3-04
ZG-50	40 ^g	57.5		7-5-04
ZG-51	42	59		
ZG-52	42	61		
ZG-53	40	59		
ZG-54	50	60		
ZG-55	42	58.5		
ZG-56	50	60		
ZG-57	38	55.5		
ZG-58	42	61		
ZG-59	40	58		
ZG-60	42	59		
ZG-61	38	58.5		
ZG-62	42	58		
ZG-63	42	58.5		
ZG-64	42	57.5		
ZG-65	40	57		
ZG-66	38	57.5		
ZG-67	38	58.5		7-7-04
ZG-68	38	56		7-7-04

Keeping
at
SeaLife
Park

DATA

Turtle ID	#16		WC 19		#17	WC 15	#18	WC 08	#19	NONE										
	Date	Weight	SCL	HATCHED	AT	SEA	LIFE	SCL	Weight	SCL	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	
8/2/02	>>			HATCHED			LIFE	PARK	>>	>>										
11/7/02	>>			>>	TRANSFER	TO	MAUNA	LANI	>>	>>										
11/7/02	0.25		10.6	10.6	0.25	10.3	0.25	10.6	0.25	10.9										
?	*		12.3	12.3	*	11.9	*	12.2	*	12.0										
?	1.0		14.5	14.5	1.0	13.9	1.25	13.7	1.0	13.2										
1/17/03	1.25		15.2	15.2	1.5	15.8	1.5	15.7	1.5	15.2										
2/18/03	1.5		17.3	17.3	2.0	18.3	1.75	17.7	1.75	17.3										
3/12/03	2.25		18.9	18.9	2.5	19.7	2.5	19.5	2.25	18.7										
4/10/03	3.25		20.9	20.9	3.5	21.6	3.5	21.5	3.25	20.4										
5/2/03	3.8		22.4	22.4	4.0	23.1	4.0	23.0	3.5	21.7										
6/25/03	5.5		25.6	25.6	4.75	25.7	5.25	25.7	4.75	24.2										
7/2/03	*		*	*	*	*	*	*	*	*										
7/29/03	7.12		27.5	27.5	6.0	26.6	6.5	26.9	5.75	25.9										
9/3/03	8.75		29.6	29.6	7.25	28.7	8.0	28.7	7.0	27.5										
9/25/03	8.75		30.1	30.1	8.0	29.5	8.0	29.1	7.5	28.1										
10/29/03	9.25		31.1	31.1	9.25	31.2	9.25	30.3	9.0	29.8										
11/11/03	*		*	*	*	*	*	*	*	*										
12/17/03	9.58		31.9	31.9	10.52	33	11.52	32.3	11.0	32.0										
1/28/04	10.06		33.0	33.0	12.18	34.4	12.18	33.4	11.48	32.3										
2/25/04	10.64		33.4	33.4	12.98	35.3	12.76	34.1	12.46	33.2										
3/31/04	11.18		34.1	34.1	14.04	36.2	13.32	34.7	DEAD	2/24/04										
4/28/04	11.92		34.7	34.7	15.64	37.3	13.85	35.2												
5/24/04	12.21		34.8	34.8	16.19	38.0	14.05	35.4												
6/23/04	12.4		35.5	35.5	16.7	38.4	14.5	35.7												

WR = Weight (lbs) SCL = Straight Carapace Length (cm) SCW = Straight Carapace Width CCL = Curved Carapace Length CCW = Curved Carapace Width

DATA

Turtle ID	# 20		# 21		# 22		# 23		# 24		# 25		# 26		# 27		# 28		# 29	
	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL
1/9/04	>>	>>	TRANSFER	>>	>>	>>	>>	>>	>>	>>	>>	>>	TRANSFER	SEA LIFE	SEA LIFE	>>	>>	>>	>>	>>
1/9/04	0.94 (425g)	13.6	0.89 (403g)	13.7	0.77 (345g)	12.8	1.06 (475g)	14.0	1.12 (505g)	15.3	1.06 (475g)	13.9	0.89 (403g)	13.35	0.63 (285g)	0.63 (285g)	0.82 (370g)	0.82 (370g)	13.1	13.1
1/28/04	1.14	15.1	1.04	14.6	0.80	13.3	1.28	15.3	1.36	16.6	1.28	15.8	1.04	14.4	0.82	0.82	0.96	0.96	14.1	14.1
2/25/04	1.54	16.7	1.40	16.5	0.96	14.1	1.86	17.4	2.0	18.3	1.56	17.0	1.56	16.3	0.98	0.98	1.44	1.44	15.8	15.8
3/15/04	1.98	*	1.70	*	1.16	*	2.36	*	2.36	*	1.84	*	1.86	*	DEAD	DEAD	1.68	1.68	*	*
3/31/04	2.16	18.5	1.86	18.0	1.30	15.2	2.42	19.4	2.62	20.3	1.98	18.4	2.04	18.1			1.72	1.72	17.5	17.5
4/28/04	2.96	20.3	2.32	19.7	1.38	15.7	2.8	20.3	3.02	21.5	2.08	19.2	2.74	19.8			1.98	1.98	18.4	18.4
5/24/04	3.12	20.7	3.04	21.0	1.92	17.2	2.96	20.6	3.46	22.3	2.24	19.6	3.54	21.6			2.52	2.52	19.5	19.5
6/23/04	4.2	22.2	3.6	22.6	2.3	19.0	3.3	22.9	4.2	23.9	2.9	21.1	4.2	23.4			3.2	3.2	21.7	21.7

WT = Weight (lbs) SCL = Straight Carapace Length (cm) SCW = Straight Carapace Width CCL = Curved Carapace Length CCW = Curved Carapace Width

DATA

Turtle ID	# 29		WI 48		# 30		WI 51		# 31		WI 64		# 32		WI 66		# 33		WI 67		# 34		WI 68		# 35		WI 69		# 36		WI 73		# 37		WI 75	
	Date	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL			
1/9/04	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
1/9/04	0.75 (340g)	13.1	TRANSFER	13.4	FROM	0.60 (270g)	11.6	SEA LIFE	0.80	13	11.6	11.6	0.55 (250g)	11.4	11.4	0.68 (305g)	12.3	12.3	0.68 (305g)	12.3	12.3	0.55 (250g)	11.2	11.2	0.53 (240g)	11.1	11.1	0.77 (345g)	13.0	13.0	0.80 (360g)	13.2	13.2	0.80 (360g)	13.2	
1/28/04	0.88	14.2	*	14.1	14.1	0.80	13	13	0.80	13	13	13	0.72	12.5	12.5	0.82	13.3	13.3	0.82	13.3	13.3	0.76	13	13	0.7	12.4	12.4	1.06	14.4	14.4	0.86	14	14	0.86	14	
2/25/04	1.18	15.5		15.2	15.2	1.14	14.7	14.7	1.14	14.7	14.7	14.7	0.94	13.8	13.8	1.1	14.6	14.6	1.1	14.6	14.6	1.2	15.0	15.0	0.88	13.6	13.6	1.5	16.4	16.4	1.06	15.1	15.1	1.06	15.1	
3/15/04	1.38	*		*	*	1.48	*	*	1.48	*	*	*	1.18	*	*	1.28	*	*	*	1.28	*	*	1.38	*	*	1.06	1/14/00	1/14/00	1.9	*	*	1.58	*	*	1.58	*
3/31/04	1.54	17.1		16.2	16.2	1.76	17.1	17.1	1.76	17.1	17.1	17.1	1.28	15.2	15.2	1.38	1/16/00	1/16/00	1.38	1/16/00	1/16/00	1.64	16.7	16.7	DEAD	3/14/04	3/14/04	2.06	18.4	18.4	1.88	17.7	17.7	1.88	17.7	
4/28/04	1.96	18.3		17.1	17.1	2.04	18	18	2.04	18	18	18	1.46	16.1	16.1	DEAD	4/4/04	4/4/04	DEAD	4/4/04	4/4/04	2.3	18.3	18.3				2.54	19.6	19.6	2.04	18.4	18.4	2.04	18.4	
5/24/04	2.5	19.4		17.9	17.9	2.64	19.3	19.3	2.64	19.3	19.3	19.3	1.9	17.1	17.1							2.8	19.0	19.0				3.02	20.7	20.7	2.2	19.1	19.1	2.2	19.1	
6/23/04	3.0	21.5		19.2	19.2	3.2	21.1	21.1	3.2	21.1	21.1	21.1	2.2	18.7	18.7							3.5	21.6	21.6				3.7	22.4	22.4	3.0	21.1	21.1	3.0	21.1	

WT = Weight (lbs) SCL = Straight Carapace Length (cm) SCW = Straight Carapace Width CCL = Curved Carapace Length CCW = Curved Carapace Width

DATA

Turtle ID	# 38		WI 93		# 39		WI 94												
	Date	Weight	SCL	FROM	SEA LIFE	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	SCL	
1/9/04	TRANSFER	1.58 (710g)	15.7		16.9														
1/28/04		1.84	17.8	2	18														
2/25/04		2.46	19.1	2.40	19.0														
3/15/04		2.96	*	2.70	*														
3/31/04		3.28	21.1	2.86	20.2														
4/28/04		3.48	22	2.92	20.9														
5/24/04		3.76	22.6	3.24	21.3														
6/23/04		3.9	23.5	3.6	22.4														

WT = Weight (l (lbs)) SCL = Straight Carapace Length (cm) SCW = Straight Carapace Width CCL = Curved Carapace Length CCW = Curved Carapace Width

HONU NAMES '04

Pupuka	ugly
Kalakoa	colorful
Hau'oli	happy
Kai uli	deep blue sea
Hilahila	bashful, shy
Kua pu'u / Kua hua	hunched back, humped back
'Aukai	seafarer
Makaiwa	sharp-eyed, eye of the Iwa
Nanuku	the inlet (kahakou over a)
Keawanui	large channel
Wenuke / Wenuka	Venus
Ku'oko'a	independence (kahakou over u)
Ho'o ku'u	to free, release
Miomio	to depart quickly, to move swiftly
Lalamilo	branch of milo tree (kahakou over a's)
Ka no'eau	the wise one
Kolonahe	gentle
Kai 'au	swimming sea
Kalehua	the expert
Kainehe	whispering sea

YEARLINGS (for display)

Kai nalu	ocean waves	(KAI)
Punahale	favorite	(PUNA)
Moana kai	deep ocean	(MOANA)
Kolohe	rascal	
Maka onaona	dreamy eyes	(MAKA)
Lani kai	heavenly sea	(LANI)

Honu I.D.

(P.I.T. TAGS)

#20	WI 30	442D1C5D1D
#21	WI 32	442F6C6D0D
#22	WI 33	442F516C1A
#23	WI 36	442F410A22
#24	WI 37	4523245A7D
#25	WI 39	4528395B64
#26	WI 40	452A01090C
#28	WI 46	45231C7A52
#29	WI 48	4527544952
#30	WI 64	4524161C79
#37	WI 75	45236E7673
#38	WI 93	452304285A

DATA

Turtle ID	WI #1		WI #14		WI #2		WI #16		WI #3		WI #21		WI #4		WI #22		WI #5		WI #24		WI #6		WI #20		WI #7		WI #15		WI #8		WI #17		WI #18				
	Date	Weight	SCL	AT	SEA	LIFE	PARK	>>	>>	MAUNA	LANI	TO	TRANSFER	TO	MAUNA	LANI	HATCHED	AT	SEA	LIFE	PARK	>>	>>	HATCHED	AT	SEA	LIFE	PARK	>>	>>	Weight	SCL	Weight	SCL			
8/2/02	HATCHED																																				
11/7/02																																					
11/7/02																																					
?																																					
?																																					
1/17/03																																					
2/18/03																																					
3/12/03																																					
4/10/03																																					
5/2/03																																					
6/25/03																																					
7/2/03	TRANSFER	TO	MAUNA	LANI																																	
7/29/03	6.75	28.0	28.3	7.25	28.3	28.3	7.9	28.8	9.0	29.9	29.9	5.5	25.9	6.5	28.1	28.1	6.75	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	
9/3/03	7.25	29.1	30.3	8.5	30.3	30.3	8.5	30.3	10.5	31.8	31.8	6.3	27.7	7.75	29.3	29.3	8.0	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
9/25/03	8.5	29.3	30.1	8.5	30.1	30.1	8.25	30.6	11.0	32.1	32.1	7.0	28.2	7.5	29.5	29.5	8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
10/29/03	9.0	30.9	31.2	10.0	31.2	31.2	9.0	31.2	12.5	33.6	33.6	8.25	29.6	8.5	30.4	30.4	9.75	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	
11/11/03	*	*	*	*	*	*	*	*	13.0	34.0	34.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
12/17/03	11.16	33.2	32.7	11.24	32.7	32.7	9.04	31.7	TRANSFER	TRANSFER	TRANSFER	10.54	31.8	9.16	31.6	31.6	11.1	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
1/28/04	12.7	35.0	33.8	11.92	33.8	33.8	9.74	32.2				11.98	33.4	9.9	32.6	32.6	13.16	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
2/25/04	13.54	35.6	34.5	13.24	34.5	34.5	9.86	32.6				13.05	34.3	11.48	33.4	33.4	14.02	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
3/31/04	14.24	36.2	35.2	13.58	35.2	35.2	10.96	33.1				14.06	35.6	12.22	34.4	34.4	14.41	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	
4/28/04	14.78	37.1	35.9	13.76	35.9	35.9	11.4	33.7				15.2	36.6	13.34	35.4	35.4	15.62	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
5/24/04	15.08	37.3	36.1	13.9	36.1	36.1	12.06	34.4				16.48	37.2	14.12	36.2	36.2	17.15	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
6/23/04	15.1	37.7	36.2	14.1	36.2	36.2	13.0	35.2				17.8	38.2	15.1	37.0	37.0	18.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4

WI = Weight (lbs) SCL = Straight Carapace Length (cm) SCW = Straight Carapace Width CCL = Curved Carapace Length CCW = Curved Carapace Width

8/2/02

DATA

Turtle ID	Date	#10		#11		#12		#13		#14		#15		#16		#17	
		Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL	Weight	SCL
	8/2/02	HATCHED	AT	SEA	LIFE	TO	MAUNA	>>	>>	HATCHED	AT	SEA	LIFE	PARK	SEA	AT	PARK
	11/17/02	~	~	TRANSFER	TO	MAUNA	LANI	>>	>>	TRANSFER	TO	MAUNA	LANI	LANI	TO	TRANSFER	LANI
	11/17/02	~	~	0.25	10.8	0.25	9.6	0.5	11.0	0.25	9.9	0.5	11.0	11.0	9.9	0.25	11.0
	?	~	~	*	12.6	*	11.4	*	12.1	*	11.6	*	12.9	12.9	11.6	*	12.9
	?	~	~	1.25	14.1	1	13.0	1	13.7	1.0	13.2	1.25	14.7	14.7	13.2	1.0	14.7
	1/17/03	~	~	1.5	15.9	1.25	14.8	1.5	15.6	1.25	15.0	1.75	16.8	16.8	15.0	1.25	16.8
	2/18/03	~	~	2	17.9	1.5	17.1	2.0	18.0	1.5	17.5	2.25	19.1	19.1	17.5	1.5	19.1
	3/12/03	~	~	2.75	19.4	2	18.7	2.5	19.3	2.25	19.2	3.0	20.6	20.6	19.2	2.25	20.6
	4/10/03	~	~	3.5	21	3	20.5	3.25	21.3	3.0	21.8	3.5	22.4	22.4	21.8	3.0	22.4
	5/2/03	~	~	3.75	22.3	3	21.9	3.75	22.5	3.5	22.2	4.5	23.9	23.9	22.2	3.5	23.9
	6/25/03	~	~	5	25.1	4.5	24.7	5.0	25.3	5.0	25.8	5.75	26.6	26.6	25.8	5.0	26.6
	7/2/03	TRANSFER	TO ML	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	7/29/03	9	30.5	6.5	27.5	5.25	26.2	7.0	27.6	6.5	27.4	7.75	28.5	28.5	27.4	6.5	28.5
	9/3/03	10	31.7	7.75	29.2	6.75	28.2	8.5	29.35	7.75	29.1	10.0	30.6	30.6	29.1	7.75	30.6
	9/25/03	10.25	32.2	9.5	30.3	8.5	29.2	8.25	30.4	9.0	30.5	8.25	31.9	31.9	30.5	8.25	31.9
	10/29/03	12.0	33.8	11.5	32.5	9.5	31.6	11.75	32.8	11.0	32.4	13.25	33.7	33.7	32.4	11.0	33.7
	11/11/03	*	*	*	*	*	*	*	*	*	*	13.5	34.2	34.2	*	*	34.2
	12/17/03	12.38	34.3	15.6	35.4	11.62	34.0	14.94	34.4	13.14	34.9	TRANSFER	(HNL-MMFS)		34.9	TRANSFER	
	1/28/04	13.44	35.5	16.22	37.1	12.72	35.6	15.26	35.7	14.62	36.4				36.4		
	2/25/04	15.26	36.4	17.24	38.0	13.78	36.3	15.12	36.3	15.3	37.2				37.2		
	3/31/04	16.16	36.8	18.82	39.1	14.54	37.4	14.8	36.5	14.6	37.4				37.4		
	4/28/04	DEAD	3/16/04	19.4	40.0	15.26	38.2	14.72	36.9	15.11	37.8				37.8		
	5/24/04			20.94	40.5	16.38	38.8	15.88	37.3	16.5	38.1				38.1		
	6/23/04			22.1	41.5	17.1	39.5	16.6	37.8	17.1	38.8				38.8		

Wt = Weight (lbs) SCL = Straight Carapace Length (cm) SCW = Straight Carapace Width CCL = Curved Carapace Length CCW = Curved Carapace Width



MAUNA LANI RESORT
AT KALĀHUIPUA'A

Press Release

FOR MORE INFORMATION:

At Mauna Lani:

Sandie Patton 808-881-7045

Susan Bredo 808-885-6622

Sheila Donnelly & Associates:

Sweetie Nelson 808-949-4131

sweetie@sheiladonnelly.com

FOR IMMEDIATE RELEASE

THE FOURTH OF JULY AT MAUNA LANI CELEBRATES INDEPENDENCE FOR HAWAII'S
GREEN TURTLES AND GOOD OLD-FASHIONED FAMILY FUN

KOHALA COAST, Big Island of Hawaii, June 01, 2004 — The fourth of July is celebrated in a unique fashion at Mauna Lani Resort on Hawaii's Big Island. Yes, there are flags, hot dogs and live music. There is even a parade, balloon animals and face painting. The telltale difference is that the stars of Mauna Lani's show are not human — they are green with flippers, they have beautifully-patterned shells, and they seem to have a permanent smile on their faces. They are *honu* (Hawaiian green turtles) and it is their special day — "Turtle Independence Day."

While very little is known about the wild green turtles' first year or so of life, Mauna Lani is doing all they can to educate the public and raise awareness regarding this threatened species. Since 1989, the resort has received juvenile *honu* from Oahu's Sea Life Park and raised them in the saltwater ponds of Mauna Lani Bay Hotel. The *honu* are cared for until they grow to a size and weight that are deemed appropriate for release into the wild. This release occurs every July 4th, Turtle Independence Day, at the ocean's edge fronting Mauna Lani Bay.

This year, the celebration begins at 8:30 a.m. with live entertainment and a carnival atmosphere complete with games, balloon animals and canoe rides for the kids. At 9:30 a.m. the turtles are gathered and escorted down to the ocean, where a special chant and *honu* hula by one of Hawaii's most honored hula masters takes place prior to the *pièce de résistance*, the release of the young turtles. This event occurs amidst hundreds of flag-waving well wishers as they bid aloha to the flippered friends who have called Mauna Lani "home" for the past months. During the morning's festivities, good old-fashioned picnic fare is also available, from hot dogs and hamburgers to Hawaii's favorite delight, shave ice.

Mauna Lani Bay Hotel & Bungalows
68-1400 Mauna Lani Drive · Kohala Coast, Island of Hawaii 96743
www.maunalani.com



A Pan Pacific Resort

THE FOURTH OF JULY AT MAUNA LANI CELEBRATES INDEPENDENCE FOR HAWAII'S GREEN TURTLES AND GOOD OLD-FASHIONED FAMILY FUN

Page Two

Since the program's inception, Mauna Lani has nurtured more than 100 juvenile *honu* in its saltwater ponds before releasing them into the ocean. Prior to July 4, the turtles undergo a thorough pre-release veterinary check, and those that are declared fit for release are the stars of the next Fourth of July show.

The Turtle Ambassador Program was pioneered 15 years ago by Oahu's Sea Life Park and Mauna Lani Resort. Every year, anywhere from a few dozen to a few hundred sea turtles hatch at the Park, from brood stock that the Park has owned since the early 1970's (prior to the Endangered Species Act). Most are tagged with National Marine Fisheries Service tags and released into the ocean in the first 24 hours of their life, but a few turtles are held back and sent to qualified facilities, like Mauna Lani, as part of an educational loan program. After one or two years of acting as ambassadors for the sea turtles, the animals are released into the ocean.

While the *honu* are in residence at Mauna Lani, hundreds of school children are brought to the hotel annually to enjoy a lively fish feeding tour of the hotel ponds, which include the turtles, sharks, puffer fish, and a wide variety of tropical fish. Care for these *honu* is a top priority of Mauna Lani. The resort is held in high regard because of its role in helping to raise awareness and educate the public with regard to the threatened Hawaiian green turtle population.

Mauna Lani Resort is ideally located on the Big Island's Kohala Coast, 25 minutes north of the Kona International Airport. It features the award-winning Mauna Lani Bay Hotel & Bungalows, nestled oceanfront and surrounded by acres of preserved, ancient Hawaiian fishponds. Amenities include two 18-hole championship golf courses, tennis courts, and Mauna Lani Spa. Widely recognized as a pacesetter in historic preservation and stewardship of the land, Mauna Lani beckons visitors with its unparalleled spirit of place. Live images of the resort can be seen at www.maunalani.com.

For more information on "Turtle Independence Day" at Mauna Lani, contact the hotel directly at (800) 367-2323 or (808) 885-6622 in Hawaii. Live images of Mauna Lani can be seen at www.maunalani.com.

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*** **Photography available upon request** ***



SLP ProGeny ?

SPECIES	TURTLE ID	LAB ID.	FIELD ID.	YEAR	MONTH	DAY	SCL	SAMPLE	TDNA	IN	ST
CM	3087	15238	11503	1996	06	16			GENOMIC	YES	
CM	3088	15239	11563						GENOMIC	YES	
CM	3089	15240	11565						GENOMIC	YES	
CM	3090	15241	11566						GENOMIC	YES	
CM	3091	15242	11567						GENOMIC	YES	
CM	3241	15392	K956	1994	06	20			GENOMIC	YES	
CM	3242	15393	K958	1994	06	20			GENOMIC	YES	
CM	3243	15394	K959	1994	06	20			GENOMIC	YES	
CM	3245	15396	K960	1994	06	20			GENOMIC	YES	
CM	3246	15397	K962	1994	06	20			GENOMIC	YES	
CM	3247	15398	K963	1994	06	20			GENOMIC	YES	
CM	3248	15399	K966	1994	06	20			GENOMIC	YES	
CM	3249	15400	K967	1994	06	20			GENOMIC	YES	
CM	3250	15401	K968	1994	06	20			GENOMIC	YES	
CM	3251	15402	K969	1994	06	20			GENOMIC	YES	
CM	3252	15403	K970	1994	06	20			GENOMIC	YES	
CM	3253	15404	K972	1994	06	20			GENOMIC	YES	
CM	3254	15405	K973	1994	06	20			GENOMIC	YES	
CM	5763	26461	4698	2001	12	13	54.2	BLOOD		NO	
CM	5764	26462	4691	2001	12	13	46	BLOOD		NO	
CM	5765	26463	4695	2001	12	13	44.4	BLOOD		NO	
CM	5766	26464	4693	2001	12	13	43.2	BLOOD		NO	
CM	5767	26465	4700	2001	12	13	54	BLOOD		NO	
CM	5768	26466	4694	2001	12	13	42	BLOOD		NO	
CM	5769	26467	4696	2001	12	13	55.7	BLOOD		NO	
CM	5770	26468	4697	2001	12	13	51.2	BLOOD		NO	
CM	5771	26469	4692	2001	12	13	45.1	BLOOD		NO	
CM	5772	26470	4699	2001	12	13	56	BLOOD		NO	
CM	5773	26471	WB-20	2001	12	13	44.5	BLOOD		NO	
CM	5774	26472	V-732	2001	12	18	71.1	BLOOD		NO	
CM	5775	26473	V-741	2001	12	19	45.4	BLOOD		NO	
CM	5776	26474	V-738	2001	12	19	53.2	BLOOD		NO	
CM	5777	26475	V-724	2001	12	19	49.1	BLOOD		NO	
CM	5778	26476	V-743	2001	12	19	49.5	BLOOD		NO	
CM	5779	26477	V-748	2001	12	19	56.2	BLOOD		NO	
CM	5780	26478	V-744	2001	12	19	45.5	BLOOD		NO	
CM	5781	26479	NO TAG	2001	12	19	54.4	BLOOD		NO	
CM	5782	26480	NO TAG	2001	12	19	42.7	BLOOD		NO	
CM	5783	26481	NO TAG	2001	12	19	44.1	BLOOD		NO	
CM	5784	26482	V-740	2001	12	19	48.2	BLOOD		NO	
CM	5785	26483	V-725	2001	12	19	55.1	BLOOD		NO	
CM	5786	26484	V-735	2001	12	19	51.6	BLOOD		NO	
CM	5787	26485	V-736	2001	12	19	56.5	BLOOD		NO	
CM	5788	26486	WA-89	2001	12	19	32.1	BLOOD		NO	
CM	5789	26487	V-719	2001	12	19	52.4	BLOOD		NO	
CM	5790	26488	V-739	2001	12	19	54.6	BLOOD		NO	
CM	5791	26489	V-742	2001	12	19	44.6	BLOOD		NO	
CM	5792	26490	V-745	2001	12	19	48.8	BLOOD		NO	
CM	5793	26491	ZG-01	2001	12	27	32.3	BLOOD		NO	
CM	5794	26492	ZG-05	2001	12	27	31.9	BLOOD		NO	
CM	5795	26493	ZI-36	2001	12	27	32.6	BLOOD		NO	

CM	5796	26494 ZG-10	2001	12	27	32.6	BLOOD	NO
CM	5797	26495 ZG-08	2001	12	27	30.8	BLOOD	NO
CM	5798	26496 ZG-04	2001	12	27	36	BLOOD	NO
CM	5799	26497 ZG-02	2001	12	27	34	BLOOD	NO
CM	5800	26498 ZG-09	2001	12	27	32.6	BLOOD	NO
CM	5801	26499 ZG-06	2001	12	27	30.1	BLOOD	NO
CM	5802	26500 ZG-11	2001	12	27	32.3	BLOOD	NO
CM	5803	26501 ZG-07	2001	12	27	32.7	BLOOD	NO
CM	5804	26502 ZG-03	2001	12	27	26.4	BLOOD	NO
CM	5805	26503 ZI-29	2001	12	27	32.4	BLOOD	NO
CM	15	5155 Y32	1995?				SKIN	YES
CM	16	5156 2982	1995?				SKIN	YES
CM	17	5157 NNW756	1995?				SKIN	YES
CM	23	5162 15101	1995?				SKIN	YES
CM	24	5163 2061	1995?				SKIN	YES
CM	25	5164 NNW767	1995?				SKIN	YES
CM	26	5165 3282	1995?				SKIN	YES
CM	37	5176 422	1995?				SKIN	YES
CM	38	5177 449	1995?				SKIN	YES
CM	39	5178 465	1995?				SKIN	YES
CM	40	5179 469	1995?				SKIN	YES
CM	41	5180 473	1995?				SKIN	YES
CM	42	5181 477	1995?				SKIN	YES
CM	43	5182 482	1995?				SKIN	YES
CM	44	5183 486	1995?				SKIN	YES
CM	45	5184 494	1995?				SKIN	YES
CM	46	5185 498	1995?				SKIN	YES
CM	109	5150 NNW763	1995?				SKIN	YES
CM	110	5151 2986	1995?				SKIN	YES
CM	112	5152 6496	1995?				SKIN	YES
CM	113	5153 NNW760	1995?				SKIN	YES
CM	114	5154 2051	1995?				SKIN	YES



Sea Life Park HAWAII

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983-2902

From: Danielle Jaques Date: 7/8/04

Re: more hatchlings! Including cover pages: 3

keeping 20
releasing 45 (at this point - till more hatch out)

CONFIDENTIAL

<input type="checkbox"/> Urgent <input checked="" type="checkbox"/> For Review <input type="checkbox"/> Please Comment <input type="checkbox"/> Please Reply
--

Sea Life Park Hatchling Log 2004

Hatch Date	Tag no (rff)	Weight (gr)	Carapace (mm)	Release Location	Notes
7/3/04	ZG 49	32	55		KEEPING AT SLP
7/5/04	ZG 50	30	52		KEEPING AT SLP
7/5/04	ZG 51	30	50.5		KEEPING AT SLP
7/5/04	ZG 52	32	52		KEEPING AT SLP
7/5/04	ZG 53	30	52		KEEPING AT SLP
7/5/04	ZG 54	34	50		KEEPING AT SLP
7/5/04	ZG 55	28	50		KEEPING AT SLP
7/5/04	ZG 56	36	51.5		KEEPING AT SLP
7/5/04	ZG 57	28	50.5		KEEPING AT SLP
7/5/04	ZG 58	32	52		KEEPING AT SLP
7/5/04	ZG 59	28	49		KEEPING AT SLP
7/5/04	ZG 60	32	52		KEEPING AT SLP
7/5/04	ZG 61	30	51		KEEPING AT SLP
7/5/04	ZG 62	30	50		KEEPING AT SLP
7/5/04	ZG 63	28	52		KEEPING AT SLP
7/5/04	ZG 64	30	50		KEEPING AT SLP
7/5/04	ZG 65	30	51		KEEPING AT SLP
7/5/04	ZG 66	28	50		KEEPING AT SLP
7/7/04	ZG 67	34	54		KEEPING AT SLP
7/7/04	ZG 68	32	51.5		KEEPING AT SLP
7/7/04	ZG 69	32	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 70	34	55	Cockroach Bay	Release 7/7/04
7/7/04	ZG 71	34	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 72	34	53.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 73	30	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 74	32	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 75	30	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 76	28	49.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 77	32	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 78	30	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 79	32	52.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 80	30	50	Cockroach Bay	Release 7/7/04
7/7/04	ZG 81	32	52	Cockroach Bay	Release 7/7/04

7/7/04	ZG 82	32	50.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 83	32	52.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 84	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 85	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 86	34	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 87	32	50	Cockroach Bay	Release 7/7/04
7/7/04	ZG 88	34	54	Cockroach Bay	Release 7/7/04
7/7/04	ZG 89	34	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 90	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 91	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 92	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 93	32	54	Cockroach Bay	Release 7/7/04
7/7/04	ZG 94	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 95	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 96	32	50.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 97	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 98	32	54	Cockroach Bay	Release 7/7/04
7/7/04	ZG 99	32	52	Cockroach Bay	Release 7/7/04
7/7/04	WD 69	32	53	Cockroach Bay	Release 7/7/04
7/7/04	WD 70	30	50	Cockroach Bay	Release 7/7/04
7/7/04	WD 71	32	54	Cockroach Bay	Release 7/7/04
7/7/04	WD 72	30	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 73	32	54	Cockroach Bay	Release 7/7/04
7/7/04	WD 74	32	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 75	30	50	Cockroach Bay	Release 7/7/04
7/7/04	WD 76	30	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 77	32	52	Cockroach Bay	Release 7/7/04
7/7/04	WD 78	30	52	Cockroach Bay	Release 7/7/04
7/7/04	WD 79	30	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 80	32	53	Cockroach Bay	Release 7/7/04
7/7/04	WD 81	28	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 82	32	49	Cockroach Bay	Release 7/7/04

Date: Mon, 6 Oct 2003 16:52:42 -1000
From: Robert Morris <morrisr005@hawaii.rr.com>
To: pI'I <plaeha@maunalani.com>
Cc: Sandie Patton <spatton@maunalani.com>,
George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: turtle growths

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

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

Aloha:

Noted that I left out the data for turtle # 12--scl 29.2, Wt. 8 lbs 8 oz.
Please add this to the records I mailed.

Noted that the growth increase for the inside turtles was more than 2x
that of the outside turtles. Also that the outside turtles growth
increases were 1/2 as much as previous increases. Don't know
significance of this- maybe inside turtles get more attention & food.
Will discuss this with George.

Bob

Annual 'liberation' part of resort's program to help preserve turtles



**HAWAII'S
BACK YARD**

Cheryl Chee Tsutsumi

On the Fourth of July, Mauna Lani Resort might not light fireworks, but you can always expect an explosion of fun and excitement.

Each Independence Day, during a festive morning celebration, this luxurious Big Island resort "liberates" juvenile honu (green sea turtles), a threatened species, that have been raised in its saltwater ponds.

The resort launched the Turtle Ambassador Program in 1989, in cooperation with Oahu's Sea Life Park and

George Balazs, a turtle researcher with the National Marine Fisheries Service. Every year, a few dozen to a few hundred sea turtles are hatched at Sea Life Park. Most of them are identified with National Marine Fisheries Service tags and released into the ocean during the first 24 hours of their lives, but some are sent to qualified facilities like Mauna Lani's as part of a unique education project.

Mauna Lani receives five to 20 honu at a time for its Turtle Ambassador Program (the re-

sort has nurtured more than 100 honu since 1989). The turtles usually range in age from 3 months to a year, and Mauna Lani's staff cares for them until they are big and healthy enough to be released into the ocean.

Generally, to be released, the turtles must have a carapace length of at least a foot, a size they attain when they're about 2 to 3 years old. Their release is the highlight of Mauna Lani's Turtle Independence Day, which marks its 15th anniversary today with

the release of 15 turtles. Exuding the lively atmosphere of a carnival, the event will begin at 8:30 a.m. with musical entertainment, games, face painting, balloon animals and canoe rides for the kids. Favorite picnic fare will be available for sale, including hot dogs, hamburgers, cotton candy, malasadas, shave ice and root beer floats.

At 9:30 a.m. the turtles will be carried to shore, where a special chant and "honu hula" by John Kaimikaua's Halau Hula O Kukunaokala will take

place prior to their release front of hundreds of flag-waving well-wishers.

"Some turtles zoom seaward," says Pili Laeha, manager of Mauna Lani Resort's saltwater ponds.

"Others cruise the area before heading out to offshore waters."

Hundreds of schoolchildren annually learn about the honu on tours of the resort's pond. "The turtles require special care," points out Laeha.

Please see **Turtles, F6**

Turtles: Staff reach out to kids and visitors alike

Continued From F1

"There are many things to worry about. Do they have enough to eat? Are they sick? Is their water clean? You worry about them getting stuck in the rocks. With the turtles, you run into the same concerns and problems as you do when raising your children; they need lots of tender loving care."

A few turtles are selected as subjects in a satellite tracking project conducted by Balazs. Transmitters relay the turtles' location and other data to him at the NMFS's Pacific Islands Fisheries Science Center in Honolulu. Balazs notes, "The main scientific purpose of putting satellite transmitters on the turtles is to study their pelagic ecology — where they travel and how they live with relation to ocean currents and other features such as temperature and winds."

During thorough pre-release examinations, Balazs and veterinarian Dr. Bob Morris determine which turtles are fit for release; the strongest and healthiest are chosen to wear the transmitters. They vary in age and weight, so information about them at different stages can be obtained. Last year, four turtles bearing satellite tags were released — one from the shore and three in waters five miles off Mauna Lani.



PHOTOS COURTESY OF THE MAUNA LANI RESORT

Baby honu are cared for as part of Mauna Lani Resort's Turtle Ambassador Program and nurtured until they are big enough to survive in the wild.

IN ANCIENT TIMES, according to Danny Akaka, Mauna Lani Resort's director of cultural affairs, ponds called "pa honu" were built to raise honu as a food source primarily for the alii (royal) class. A pa honu was located at Kawaihae, currently the site of the deep draft harbor.

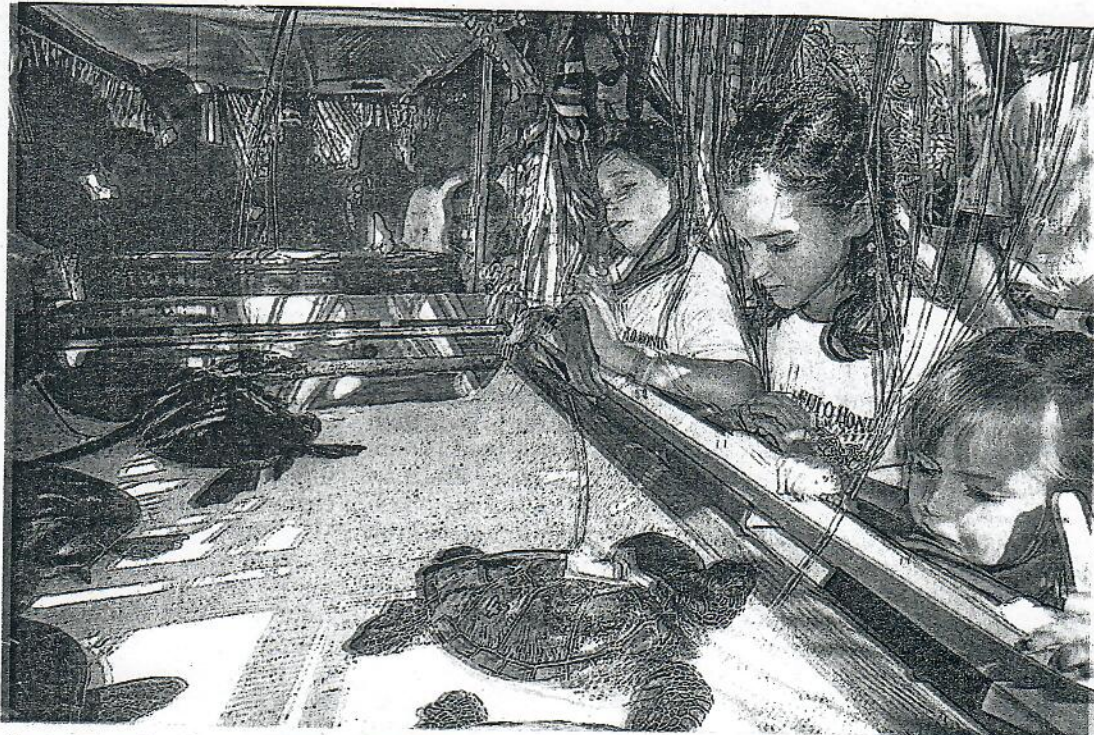
"Honu also played a significant cultural role in that they were regarded as aumakua (personal guardians) by some Hawaiian families," Akaka says. "Families who believed the turtle to be their aumakua could not eat or use any part of it for any purpose; otherwise, it was said misfortune would befall them for not respecting the family guardian."

Akaka says Mauna Lani's Turtle Ambassador Program has provided a wonderful opportunity for staffers to talk to visitors about the honu as a symbol of longevity and voyaging, its cultural significance in Hawaii and its plight in today's world.

"It doesn't take much to sell people on the fact that the relationship between man and turtle is akin to the relationship between man and nature, and that man's existence depends on how well he treats nature," Akaka says. "If turtles cease to exist, what of man's existence? Will man's shortsightedness, negligence and abuse place him next on the endangered species list?"

A SCHOOL GROUP from Puna, where fishermen sometimes were caught illegally harvesting turtles from the sea, was among those visiting the resort.

When Akaka spoke to the children about the importance of protecting the environment and the honu, one of the girls raised her hand and said that her father was a fisherman who occasionally brought home a turtle for dinner. "I told her that we must all do our part to help Mother Nature," Akaka said. "By taking turtles before they mature and can have more offspring, we



Every Fourth of July is Turtle Independence Day at the resort, when turtles who are at least a foot long await their ocean send-off.



Volunteers gently carry the turtles to the water's edge, where they are released with a big party and the cheers of crowds.

TURTLE INDEPENDENCE DAY

Place: Mauna Lani Resort, Kohala Coast, Big Island

Time: 8:30 to 11:30 a.m. today

Admission: Free. Food will be available for purchase.

Call: Susan Bredo, 808-885-6622

E-mail: sbredo@maunalani.com or dakaka@maunalani.com

Web site: www.maunalaniculture.org

could upset the balance of life in the ocean, which could have a negative effect on other species as well."

Within a few weeks, Akaka received thank-you letters from the class; one was from the girl who had mentioned her father hunted turtles. In her note, she said she told her parents about the field trip, what she had learned and how we all need to be the stewards of the ocean, land and its resources.

"Her father promised he would not kill another turtle again," says Akaka. "I use this story to illustrate the impact that our Turtle Ambassador Program can have on children, and that it is the children who, in turn, will teach the parents to malama aina, malama ke kai (protect the land, protect the ocean)."

Cheryl Chee Tsutsumi is a Honolulu-based freelance writer and Society of American Travel Writers award winner.

DATA ON MAUNA LANI TURTLE

ID: # 32 (moto) / WI 66

Date	Weight (lbs)	SC Length (cm)	location	Comments
October 2 2003				Hatched at Sea Life Park
1/09/04	0.55 (250g)	11.35	Atrium Pond	Transferred to Mauna Lani
1/28/04	0.72	12.5		1 mm plaque upper mid palate
2/25/04	0.94	13.8		* see veterinarian report
3/15/04	1.18	-		Put numbers on shell
3/31/04	1.28	15.2		* see veterinarian report (1 tablet Baytril)
4/05/04	-	-		20% plaque on palate & tongue (1 tablet Baytril)
4/10/04	-	-		3cm rugose on palate, < 5% on tongue (1 tablet Baytril)
4/15/04	-	-		20% on palate, rugose on tongue (0.2 cc Amikacin)
4/18/04	-	-		Rugose on palate & tongue (0.2 cc Amikacin)
4/23/04	-	-		30% palate, 4 plaque on tongue (0.2 cc Amikacin)
4/26/04	-	-		20% palate, 2 plaque on tongue (0.2 cc Amikacin)
4/28/04	1.46	16.1		30% plaque on palate, 2 plaque on tongue
5/24/04	1.9	17.1		* see veterinarian report
6/23/04	2.2	18.7	Isolation Pen	* see veterinarian report (no metal fin tag)
7/05/04			Honu Pond	Transfer
7/21/04	2.4	20.3		DEAD - chilled, iced and shipped to NMFS for necropsy

DIAGNOSTIC CASE REPORT

U. S. GEOLOGICAL SURVEY-BIOLOGICAL RESOURCES DIVISION
NATIONAL WILDLIFE HEALTH CENTER-HONOLULU FIELD STATION
P. O. BOX 50167, 300 ALA MOANA BLVD., Rm. 8-132
HONOLULU, HAWAII 96850
808-792-9520, FAX 792-9596, thierry_work@usgs.gov

Case # 17819

Epizoo #

Submitter:

Mr. George Balazs
NOAA-NMFS-SWFC
2570 Dole Street
Honolulu, HI 96822-2396

Specimen description/identification:

1 green turtle carcass


Date Submitted: (04/05/2004)
(mm/dd/yy)


Date Collected: (04/03/2004)
(mm/dd/yy)


Date Examined: (04/05/2004)
(mm/dd/yy)

Location: Mauna Lani Hotel

County/Site: Hawaii

 **HISTORY:** This animal was found dead in the exhibition pond at the Mauna Lani Hotel.

 **SIGNIFICANT FINDINGS:** This was an immature female turtle in good body condition. Significant gross findings included the oral cavity partially covered by yellow fibrinous material and markedly gas-filled small intestines. Histology revealed marked inflammation of the oral cavity associated with spicules confirmed to be of fire-worm origin based on histologic exam of fireworm found on turtle. Intestinal mucosa was blunted and sloughing.

 **DIAGNOSIS:** Inflammation of the oral cavity and intestines.

COMMENTS: Gross and microscopic lesions indicated the animal had a marked inflammation of the oral cavity associated with penetration of small foreign bodies. These were compatible with barbules of fireworms seen on histology. The intestines were distended with gas, and on microscopy, there was severe acute necrosis of intestinal mucosa. Based on gross and microscopic findings, cause of death is deemed to be a combination of inflammation of the intestines and the oral cavity. The cause of the oral lesion was most likely due to fireworm spines. While the cause of the intestinal lesion could not be determined, the nature of the lesion was acute and may be toxicity secondary to ingestion of fireworms. While a variety of bacteria were cultured from the gut and liver, histology did not implicate these as cause of death.

MANAGEMENT: Elimination of fireworms from ponds at Mauna Lani. This is being done as this report is being written.

_____ Preliminary Report (/ /) _____ X _____ Final Report (06/21/2004)
date date date

Necropsy report is: X enclosed _____ available upon request.

X : Copies of this report sent to:
-Mr. Pi'i Lahea (Mauna Lani)
-Dr. Robert Morris (Makai Animal Clinic)

If you have questions regarding this case, contact Thierry M. Work MS, DVM, MPVM at 808-792-9520. Include above Case Number. Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter's Name, Affiliation Address

Mr. George Balazs
NOAA-NMFS-SWFC
2570 Dole Street
Honolulu, HI 96822

Case: 17819
Accession: 001
Collected: 04/03/2004
Exam Date: 04/05/2004
Pathologist: T.M. Work
Prosector: T.M. Work

Species: Green turtle Specimen: Carcass
Bandtype: (Z) Ref/Band No: (WI67) Euth: (N) Weight (Gm): (621)
History Summary: This animal was found dead at Mauna Lani Resort on Hawaii. Body measurements (cm): SCL-15.7, SCW-12.2. Other identification - Honu #33. The turtle was refrigerated until shipment to HFS for necropsy.

EXTERNAL/INTERNAL OBSERVATIONS - LABORATORY RESULTS

External: There are extensive bite marks on the caudal margins of the rear flippers. A fireworm is noted on the skin of the left inguinal area, and the underlying skin is hyperemic.

Internal: There is ample coelomic fat. The liver is red and appears congested. The heart is firm, smooth, homogenous red-pink and otherwise unremarkable. The lungs are spongy and homogenous pink. The tracheal lumen is smooth and tan. The spleen is firm, smooth, and homogenous red-brown. The kidneys are firm, smooth, and homogenous brown. The oral mucosa is focally coated with clumps of yellow fibrinous material that peels off easily revealing reddened mucosa underneath. Similar foci are seen in the cranial esophageal mucosa focal areas of necrosis on the oral mucosa and the proximal esophageal mucosa. The forestomach mucosa and serosa are smooth and homogenous tan. The stomach contains ~25 cc of macerated green material. The small intestines are smooth and homogenous tan. The jejunum to the large intestine is markedly distended with gas. Intestinal and mesenteric vessels are congested and the intestines contain small small amounts of ingesta. No lesions are seen in the pericardial sac, heart valves, tracheal lumen, gall bladder, and superficial and cut surface of heart, kidney, spleen, and lungs.

Preliminary Diagnosis: Undetermined Exam Type: (GO)
Sex (F) Age (I)/() Body Cond. (G) Postmortem State (G) Giz. Lead ()/()

Samples saved:

1. Histo: Pancreas, thymus, liver (A); spleen, pancreas, kidney, ovary, lung (B); trachea, bronchi, lung, heart (C); skin (D); brain, fire worm (E); small intestines, stomach, skeletal muscle, oral mucosa, esophagus (F); small intestines (G).
2. Bact: gut, liver.
3. Frozen: liver, kidney(2), gut, spleen, esophagus, oral, stomach contents.

BACTERIOLOGY: Cultures of intestines revealed *Salmonella* sp. and *Pseudomonas* sp. Culture of the liver revealed mixed growth of *Acinetobacter* and *Pseudomonas* sp.

HISTOPATHOLOGY:

Liver: Diffusely, hepatocytes contain variably sized intracytoplasmic vacuoles giving the organ a moth-eaten appearance.

Skin: In one section, there are two foreign body granulomas in the dermis.

Skeletal muscle: Rare myofibers exhibit cytoplasmic hypereosinophilia and fragmentation.

Small intestines: Jejunum exhibits diffuse blunting of mucosa with sloughing of mucosal cells and acute necrosis of apical portions of submucosa. In some cases, lumen surface of mucosal cells manifest cytoplasmic hypereosinophilia and fragmentation.

Esophagus: Within the dermis are occasional foreign body granulomas surrounding barbules with similar diameter, texture, and appearance as seen in fireworm in Section E. There are occasional nidi of eosinophilic debris within submucosal connective tissue surrounded by macrophages and fibroblasts.

Histopathology (Cont.)

Oral Mucosa: There are areas where the surface is covered by eosinophilic debris. The squamous layer contains diffuse areas of spongiosis. Vessels within the dermis are congested and there are multiple variably sized foreign body granulomas. Many of these contain cross-sections of spines similar to those seen in fireworm in section E. In some cases, the spines are surrounded by eosinophilic debris, giant cells, and edematous tissue.

Morphologic Diagnoses:

- 1) Severe, focal, chronic, inflammation and necrosis associated with foreign body, submucosa and mucosa, esophagus and oral cavity.
- 2) Severe, diffuse, acute, necrosis, mucosa, small intestines.
- 3) Mild, focal, acute, necrosis, myofibers, skeletal muscle.

Comments: Gross and microscopic lesions indicated the animal had a marked inflammation of the oral cavity associated with penetration of small foreign bodies. These were compatible with barbules of fireworms seen on histology. The intestines were distended with gas, and on microscopy, there was severe acute necrosis of intestinal mucosa. Based on gross and microscopic findings, cause of death is deemed to be a combination of inflammation of the intestines and the oral cavity. The cause of the oral lesion was most likely due to fireworm spines. While the cause of the intestinal lesion could not be determined, the nature of the lesion was acute and may be toxicity secondary to ingestion of fireworms. While a variety of bacteria were cultured from the gut and liver, histology did not implicate these as cause of death.

Final Diagnosis (in order of importance)

	topog.	morph.	etiol.	funct.	disease	link
1. <u>Stomatitis</u>	(T51000)	(M42100)	(E00040)	()	()	()
2. <u>Enteritis</u>	(T50500)	(M40000)	(E00040)	()	()	()
3. _____	()	()	()	()	()	()

Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.

DIAGNOSTIC CASE REPORT

U. S. GEOLOGICAL SURVEY-BIOLOGICAL RESOURCES DIVISION
NATIONAL WILDLIFE HEALTH CENTER-HONOLULU FIELD STATION
P. O. BOX 50167, 300 ALA MOANA BLVD., Rm. 8-132
HONOLULU, HAWAII 96850
808-792-9520, FAX 792-9596, thierry_work@usgs.gov

Case # 17811

Epizoo #

Submitter:

Mr. George Balazs
NOAA-NMFS-SWFC
2570 Dole Street
Honolulu, HI 96822-2396

Specimen description/identification:

Tissues from green turtle carcass

Date Submitted: (03/19/2004)
(mm/dd/yy)

Date Collected: (02/24/2004)
(mm/dd/yy)

Date Examined: (02/25/2004)
(mm/dd/yy)

Location: Mauna Lani Resort

County/Site: Hawaii

HISTORY: History is provided by Dr. Robert Morris. Green turtle # 19 was found dead on 2-24-04 in the outside pool of the Mauna Lani Resort in Hawaii. This is one of 19 other turtles kept in this holding pond. The original tag number from Sea Life Park was wc-08. The birth date was in September 2002 at SLP. The SCL at death was 33.2 cm and weight 12.46 lbs. This turtle was reported to be in good health and eating the previous day. About a month ago this turtle had an apparent prolapse of the cloaca that resolved in several days. It was kept in isolation for a week until the appetite and stools were normal. The body was transported to Makai Animal Clinic in Kailua where a necropsy was done on 2-25-04. Gross necropsy findings provided by Dr. Morris. Tissues in formalin were submitted to HFS on 3-19-04.



SIGNIFICANT FINDINGS: Necropsy performed by Dr. Morris indicated this animal died from intestinal torsion. Histology revealed acute necrosis of intestinal mucosa and vacuolar degeneration of the liver.



DIAGNOSIS: Intestinal torsion.

COMMENTS: Gross and microscopic lesions indicated intestinal torsion and toxicosis as cause of death. The cause of the torsion could not be determined based on available data.


MANAGEMENT: None.

_____ Preliminary Report (/ /) _____ X _____ Final Report (06/21/2004)
date date date

Necropsy report is: X enclosed _____ available upon request.

x : Copies of this report sent to:

-Dr. Robert Morris (MAC)
-Mr. Pi'i Laeha (Maunalani Resort)

If you have questions regarding this case, contact  Thierry M. Work MS, DVM, MPVM at 808-792-9520. Include above Case Number. Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.

NATIONAL WILDLIFE HEALTH CENTER
NECROPSY REPORT

Submitter's Name, Affiliation Address

Mr. George Balazs
NOAA-NMFS-SWFC
2570 Dole Street
Honolulu, HI 96822

Case: 17811
Accession: 001
Collected: 02/24/2004
Exam Date: 02/25/2004
Pathologist: T.M. Work
Prosector: T.M. Work

Species: Green turtle Specimen: Carcass
Bandtype: (Z) Ref/Band No: (Mototool 19) Euth: (N) Weight (Gm): (unknown)

History Summary: History is provided by Dr. Robert Morris. Green turtle # 19 was found dead on 2-24-04 in the outside pool of the Mauna Lani Resort in Hawaii. This is one of 19 other turtles kept in this holding pond. The original tag number from Sea Life Park was wc-08. The birth date was in September 2002 at SLP. The SCL at death was 33.2 cm and weight 12.46 lbs. This turtle was reported to be in good health and eating the previous day. About a month ago this turtle had an apparent prolapse of the cloaca that resolved in several days. It was kept in isolation for a week until the appetite and stools were normal. The body was transported to Makai Animal Clinic in Kailua where a necropsy was done on 2-25-04. Gross necropsy findings provided by Dr. Morris. Tissues in formalin were submitted to HFS on 3-19-04.

LABORATORY RESULTS

External: The turtle was severely bloated and had a foul odor. Partial separation of the shell at the marginals was noted. This was caused by the severe bloat. The bulbar conjunctiva of the left eye was swollen and protruding. No mouth lesions were noted.

Internal: There was a mild protrusion of the cloaca that did not seem to be causing a problem. The bladder and colon were not involved in the prolapse. The small intestine was severely distended with a foul necrotic odor present. Examination of the dilated small intestine revealed a counterclockwise rotation (looking ventral to dorsal) of the mesenteric root with thrombosis of the mesenteric vessels present. Partially digested pellets were present in the stomach. The lungs appeared normal, as did the spleen, kidneys, bladder and large intestine. The liver appeared swollen and friable.

Preliminary Diagnosis: Vovulus of mesenteric root Exam Type: (GO)
Sex (U) Age (I)/() Body Cond. (U) Postmortem State (G) Giz. Lead ()/()
Samples saved:

1. Histo: Small intestines, spleen (A); liver, kidney (B).

HISTOPATHOLOGY

Spleen: Diffusely, there is marked lymphoid depletion and karyolysis.

Small intestines: Diffusely, the mucosa is sloughing from the submucosa. In one section, clumps of hypereosinophilic mucosal cells are mixed with clumps of large basophilic rods. In another section, mucosa appears fragmented and blunted. Gram stain reveals large gram-positive rods within the submucosa with little to no inflammatory response or necrosis.

Liver: Diffusely, hepatocytes contain variably sized intracytoplasmic vacuoles giving the entire organ a moth-eaten appearance.

Kidney: Rare trematode eggs accompanied by a mild lymphoid infiltrate are seen among proximal tubules. Occasional proximal tubule cells exhibit cytoplasmic hypereosinophilia and pyknosis.

Morphologic Diagnoses:

- 1) Severity, diffuse, acute, necrosis, mucosa, small intestines.
- 2) Mild, focal, chronic, inflammation associated with trematode eggs, kidney.
- 3) Moderate, diffuse, vacuolar degeneration, hepatocytes, liver.

Comments: Gross and microscopic lesions indicated intestinal torsion and toxicosis as cause of death. The cause of the torsion could not be determined based on available data.

Histopathology (Cont.)

Patient Name: _____
 Sex: _____
 Age: _____
 Date of Birth: _____
 Date of Admission: _____
 Date of Death: _____
 Pathologist: T.M. Work
 Hospital: _____

Gross description: _____
 Weight (g): _____
 The specimen was received in the laboratory on 1-15-68. It was found to be a small, firm, tan-colored mass, approximately 1.5 cm in diameter. The mass was well-circumscribed and contained within a thin, fibrous capsule. The internal structure was homogeneous and firm. The mass was completely resected and the specimen was preserved in formalin. The patient had no history of trauma or other significant events. The patient was otherwise healthy and had no other symptoms. The patient was discharged on 1-25-68. The patient is being followed up in the outpatient clinic. The patient is doing well and has no further symptoms. The patient is being followed up in the outpatient clinic. The patient is doing well and has no further symptoms.

LABORATORY RESULTS

External: The surface was smooth and tan-colored. The mass was completely resected and the specimen was preserved in formalin. The patient had no history of trauma or other significant events. The patient was otherwise healthy and had no other symptoms. The patient was discharged on 1-25-68. The patient is being followed up in the outpatient clinic. The patient is doing well and has no further symptoms.

Internal: The mass was completely resected and the specimen was preserved in formalin. The patient had no history of trauma or other significant events. The patient was otherwise healthy and had no other symptoms. The patient was discharged on 1-25-68. The patient is being followed up in the outpatient clinic. The patient is doing well and has no further symptoms.

Histopathology: The mass was completely resected and the specimen was preserved in formalin. The patient had no history of trauma or other significant events. The patient was otherwise healthy and had no other symptoms. The patient was discharged on 1-25-68. The patient is being followed up in the outpatient clinic. The patient is doing well and has no further symptoms.

Final Diagnosis (in order of importance):
 1. Intestinal torsion (T50500) (M34210) () () () ()
 2. () () () () () ()
 3. () () () () () ()

Final Diagnosis (in order of importance)

	topog.	morph.	etiol.	funct.	disease	link
1. <u>Intestinal torsion</u>	(T50500)	(M34210)	()	()	()	()
2. _____	()	()	()	()	()	()
3. _____	()	()	()	()	()	()

Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.



Sea Life Park HAWAII

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983 2902

From: Danielle Jaques Date: 7/29/04

Re: current weights/meas Including cover pages: 8

for 2003/2004 hatchlings

also - master list

CONFIDENTIAL

of all 2004 hatchlings - kept and released

<input type="checkbox"/> Urgent <input checked="" type="checkbox"/> For Review <input type="checkbox"/> Please Comment <input type="checkbox"/> Please Reply
--

already made copy for me. Brian

Sea Life Park Hatchling Log 2004

Hatch Date	Tag no (rff)	Weight (gr)	Carapace (mm)	Release Location	Notes
7/3/04	ZG 49	32	55		KEEPING AT SLP
7/5/04	ZG 50	30	52		KEEPING AT SLP
7/5/04	ZG 51	30	50.5		KEEPING AT SLP
7/5/04	ZG 52	32	52		KEEPING AT SLP
7/5/04	ZG 53	30	52		KEEPING AT SLP
7/5/04	ZG 54	34	50		KEEPING AT SLP
7/5/04	ZG 55	28	50		KEEPING AT SLP
7/5/04	ZG 56	36	51.5		KEEPING AT SLP
7/5/04	ZG 57	28	50.5		KEEPING AT SLP
7/5/04	ZG 58	32	52		KEEPING AT SLP
7/5/04	ZG 59	28	49		KEEPING AT SLP
7/5/04	ZG 60	32	52		KEEPING AT SLP
7/5/04	ZG 61	30	51		KEEPING AT SLP
7/5/04	ZG 62	30	50		KEEPING AT SLP
7/5/04	ZG 63	28	52		KEEPING AT SLP
7/5/04	ZG 64	30	50		KEEPING AT SLP
7/5/04	ZG 65	30	51		KEEPING AT SLP
7/5/04	ZG 66	28	50		KEEPING AT SLP
7/7/04	ZG 67	34	54		KEEPING AT SLP
7/7/04	ZG 68	32	51.5		KEEPING AT SLP
7/7/04	ZG 69	32	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 70	34	55	Cockroach Bay	Release 7/7/04
7/7/04	ZG 71	34	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 72	34	53.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 73	30	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 74	32	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 75	30	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 76	28	49.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 77	32	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 78	30	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 79	32	52.5	Cockroach Bay	Release 7/7/04
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7/7/04	ZG 81	32	52	Cockroach Bay	Release 7/7/04

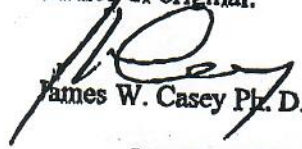
7/7/04	ZG 82	32	50.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 83	32	52.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 84	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 85	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 86	34	52	Cockroach Bay	Release 7/7/04
7/7/04	ZG 87	32	50	Cockroach Bay	Release 7/7/04
7/7/04	ZG 88	34	54	Cockroach Bay	Release 7/7/04
7/7/04	ZG 89	34	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 90	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 91	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 92	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 93	32	54	Cockroach Bay	Release 7/7/04
7/7/04	ZG 94	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 95	32	53	Cockroach Bay	Release 7/7/04
7/7/04	ZG 96	32	50.5	Cockroach Bay	Release 7/7/04
7/7/04	ZG 97	32	51	Cockroach Bay	Release 7/7/04
7/7/04	ZG 98	32	54	Cockroach Bay	Release 7/7/04
7/7/04	ZG 99	32	52	Cockroach Bay	Release 7/7/04
7/7/04	WD 69	32	53	Cockroach Bay	Release 7/7/04
7/7/04	WD 70	30	50	Cockroach Bay	Release 7/7/04
7/7/04	WD 71	32	54	Cockroach Bay	Release 7/7/04
7/7/04	WD 72	30	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 73	32	54	Cockroach Bay	Release 7/7/04
7/7/04	WD 74	32	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 75	30	50	Cockroach Bay	Release 7/7/04
7/7/04	WD 76	30	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 77	32	52	Cockroach Bay	Release 7/7/04
7/7/04	WD 78	30	52	Cockroach Bay	Release 7/7/04
7/7/04	WD 79	30	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 80	32	53	Cockroach Bay	Release 7/7/04
7/7/04	WD 81	28	51	Cockroach Bay	Release 7/7/04
7/7/04	WD 82	32	49	Cockroach Bay	Release 7/7/04
7/9/04	WD 84	30	51.5	Cockroach Bay	Release 7/9/04
7/9/04	WD 85	30	52.5	Cockroach Bay	Release 7/9/04
7/9/04	WD 86	30	52	Cockroach Bay	Release 7/9/04
7/9/04	WD 87	30	51	Cockroach Bay	Release 7/9/04
7/9/04	WD 88	30	50	Cockroach Bay	Release 7/9/04

7/9/04	WD 90	30	53	Cockroach Bay	Release 7/9/04
7/9/04	WD 91	32	53	Cockroach Bay	Release 7/9/04
7/11/04	WD 92	34	54	Cockroach Bay	Release 7/11/04
7/11/04	WD 93	28	53	Cockroach Bay	Release 7/11/04
7/11/04	WD 94	34	52	Cockroach Bay	Release 7/11/04
7/11/04	WD 95	30	48	Cockroach Bay	Release 7/11/04
7/11/04	WD 96	38	53	Cockroach Bay	Release 7/11/04
7/11/04	WD 97	36	52	Cockroach Bay	Release 7/11/04
7/11/04	WD 98	34	49	Cockroach Bay	Release 7/11/04
7/17/04	WD99	24	50	Cockroach Bay	Release 7/17/04
7/18/04	WB92	24	49	Cockroach Bay	Release 7/18/04
7/18/04	WB95	24	48.5	Cockroach Bay	Release 7/18/04
7/18/04	WB96	22	48.5	Cockroach Bay	Release 7/18/04
7/23/04	YK 01	26	48	Cockroach Bay	Release 7/23/04
7/23/04	YK 02	28	51	Cockroach Bay	Release 7/23/04
7/23/04	YK 03	30	52	Cockroach Bay	Release 7/23/04
7/23/04	YK 04	32	51	Cockroach Bay	Release 7/23/04
7/23/04	YK 05	28	52	Cockroach Bay	Release 7/23/04
7/24/04	YK 06	28	51	Cockroach Bay	Release 7/24/04
7/24/04	YK 07	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 08	26	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 09	26	48	Cockroach Bay	Release 7/24/04
7/24/04	YK 10	26	47	Cockroach Bay	Release 7/24/04
7/24/04	YK 11	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 12	28	47	Cockroach Bay	Release 7/24/04
7/24/04	YK 13	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 14	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 15	30	52	Cockroach Bay	Release 7/24/04
7/24/04	YK 16	26	47	Cockroach Bay	Release 7/24/04
7/24/04	YK 17	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 18	28	47	Cockroach Bay	Release 7/24/04
7/24/04	YK 19	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 20	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 21	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 22	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 23	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 24	26	48	Cockroach Bay	Release 7/24/04

7/24/04	YK 25	30	51	Cockroach Bay	Release 7/24/04
7/24/04	YK 26	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 27	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 28	28	48	Cockroach Bay	Release 7/24/04
7/24/04	YK 29	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 30	28	52	Cockroach Bay	Release 7/24/04
7/24/04	YK 31	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 32	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 33	26	48	Cockroach Bay	Release 7/24/04
7/24/04	YK 34	26	48	Cockroach Bay	Release 7/24/04
7/24/04	YK 35	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 36	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 37	30	51	Cockroach Bay	Release 7/24/04
7/24/04	YK 38	32	51	Cockroach Bay	Release 7/24/04
7/24/04	YK 39	28	51	Cockroach Bay	Release 7/24/04
7/24/04	YK 40	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 41	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 42	30	48	Cockroach Bay	Release 7/24/04
7/24/04	YK 43	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 44	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 45	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 46	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 47	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 48	30	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 49	28	50	Cockroach Bay	Release 7/24/04
7/24/04	YK 50	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 51	28	49	Cockroach Bay	Release 7/24/04
7/24/04	YK 52	28	51	Cockroach Bay	Release 7/24/04
7/24/04	YK 53	26	47	Cockroach Bay	Release 7/24/04
7/24/04	YK 54	28	48	Cockroach Bay	Release 7/24/04
7/26/04	YK 55	28	49	Cockroach Bay	Release 7/26/04
7/26/04	YK 56	28	49	Cockroach Bay	Release 7/26/04
7/26/04	YK 57	26	48	Cockroach Bay	Release 7/26/04
7/26/04	YK 58	28	47	Cockroach Bay	Release 7/26/04
7/26/04	YK 59	26	46	Cockroach Bay	Release 7/26/04
7/26/04	YK 60	30	52	Cockroach Bay	Release 7/26/04
7/26/04	YK 61	26	48	Cockroach Bay	Release 7/26/04

7/29/04	YK 62	33	49	Cockroach Bay	Release 7/29/04
7/29/04	YK 63	30	47	Cockroach Bay	Release 7/29/04
7/29/04	YK 64	30	50	Cockroach Bay	Release 7/29/04
7/29/04	YK 65	34	50	Cockroach Bay	Release 7/29/04
7/29/04	YK 66	32	51	Cockroach Bay	Release 7/29/04
7/29/04	YK 67	30	47	Cockroach Bay	Release 7/29/04
7/29/04	YK 68	36	53	Cockroach Bay	Release 7/29/04
7/29/04	YK 69	34	50	Cockroach Bay	Release 7/29/04
7/29/04	YK 70	34	49	Cockroach Bay	Release 7/29/04
7/29/04	YK 71	30	45	Cockroach Bay	Release 7/29/04
7/29/04	YK 72	32	50	Cockroach Bay	Release 7/29/04
7/29/04	YK 73	34	49	Cockroach Bay	Release 7/29/04
7/29/04	YK 74	34	49	Cockroach Bay	Release 7/29/04
7/29/04	YK 75	30	48	Cockroach Bay	Release 7/29/04
7/29/04	YK 76	21	51	Cockroach Bay	Release 7/29/04
7/29/04	YK 77	34	48	Cockroach Bay	Release 7/29/04
7/29/04	YK 78	34	52	Cockroach Bay	Release 7/29/04
7/29/04	YK 79	28	47	Cockroach Bay	Release 7/29/04
7/29/04	YK 80	30	47	Cockroach Bay	Release 7/29/04
7/29/04	YK 81	36	52	Cockroach Bay	Release 7/29/04
7/29/04	YK 82	28	49	Cockroach Bay	Release 7/29/04
7/29/04	YK 83	34	51	Cockroach Bay	Release 7/29/04

in lieu of original:


James W. Casey Ph.D.

Invoice Date: 7/30/04

*Payment Approved
7-30-04
w/ George Balazs*

George H. Balazs, Leader
Marine Turtle Research Program
National Marine Fisheries Service
SWFSC Honolulu Laboratory
2570 Dole Street
Honolulu, Hawaii 96822-2396 USA

Services Performed:

Real-Time PCR assays for turtle herpesvirus in water samples 20 @ \$100 ea = \$2,000

Total Due:

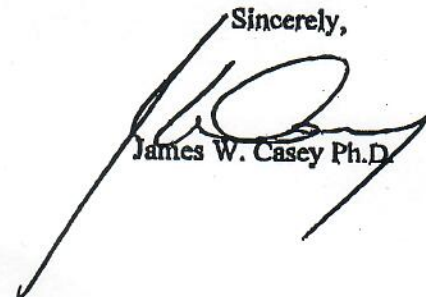
Please make checks payable to: **CORNELL UNIVERSITY** and send to Attn: Mary Linton, C5177 VMC, Microbiology & Immunology, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853. **\$2,000**

Real-time quantitative PCR analysis of THV in Water samples provided by Balazs.

The ABI 7700 PRISM quantitative PCR instrument was used to process and quantify levels of THV DNA in leaches. The primers and probe used to quantitate THV were selected from the THV-Ha DNA polymerase gene. PCR amplification was performed in a 50 µl reaction volume containing 5 µl of 10X TaqMan buffer, 5 µl of a deoxynucleoside triphosphate solution (2 mM each dATP, dCTP, dGTP, and 4mM dUTP), 0.5 µl of each primer (50 mM), 0.5 µl of probe (200 nM), 0.5 U of AmpErase uracil N-glycosylase (UNG), and 0.25 µl of Taq Gold. PCR mixtures were subjected to 2 min at 50°C to activate UNG and 10 min at 95°C to activate AmpliTaq Gold followed by 40 cycles of 15 s at 95°C and 1 min at 62°C with an ABI 7700 PRISM sequence detector (PE Biosystems).

For each reaction, the amount of fluorescence was measured as a function of the quantity of a reporter dye (6-carboxy-fluorescein [FAM]) that was released during amplification due to the 5' to 3' exonuclease activity of Taq polymerase. Serial log dilutions of the GTHV-Ha pol plasmid, were subjected to real-time PCR to establish standard curves. The threshold cycle (CT) value for each sample was determined as the number of the cycle at which the measured fluorescence first exceeded the threshold limit (10 times the standard deviation of the baseline). The limit of sensitivity of the real-time PCR was estimated as the lowest plasmid dilution that yielded comparable CT values in replicate samples: they were all <10 copies/100 ng of input DNA. Thank you in advance for the opportunity to assist in your studies.

Sincerely,


James W. Casey Ph.D.



Sea Life Park

H A W A I I

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983-2902

From: Danielle Jaques Date: 8/4/04

Re: Newest Hatchlings Including cover pages: 3

CONFIDENTIAL

Urgent For Review Please Comment Please Reply

*Already made
my copy*



Sea Life Park H A W A I I

41-202 Kalaniana'ole Hwy, #7
Waimanalo, Hawaii 96795
808-259-7933
Fax: 808-259-7373

To: George Balazs Fax: 983-2902

From: Bethany Stefanec - Reef Dept Date: 8/9/04

Re: New Hatchlings Including cover pages: 3

CONFIDENTIAL

Urgent For Review Please Comment Please Reply

*already made
my copy.
Sham*

Sea Life Park Hawaii
Animal Programs
Weekly GST Hatchling Report

Report by: SLP
Name : Bethany Stefanec
Date : 8/9/04

Copy to: Mike Osborn
Dr. Joseph
George Balszs

TAG #	WEIGHT	LENGTH	COMMENTS
YL 18	28	52	Hatched and released on 8/9/04 in Cockroach Eay.
YL 19	30	52	Hatched and released on 8/9/04 in Cockroach Eay.
			Tag YL 20 was not used on a hatchling.
YL 21	30	51.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 22	30	51	Hatched and released on 8/9/04 in Cockroach Eay.
YL 23	30	49.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 24	28	49	Hatched and released on 8/9/04 in Cockroach Eay.
YL 25	32	52	Hatched and released on 8/9/04 in Cockroach Eay.
YL 26	28	49	Hatched and released on 8/9/04 in Cockroach Eay.
YL 27	28	50	Hatched and released on 8/9/04 in Cockroach Eay.
YL 28	30	51	Hatched and released on 8/9/04 in Cockroach Eay.
YL 29	28	50.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 30	28	51	Hatched and released on 8/9/04 in Cockroach Eay.
YL 31	28	50	Hatched and released on 8/9/04 in Cockroach Eay.
YL 32	30	51	Hatched and released on 8/9/04 in Cockroach Eay.
YL 33	30	50	Hatched and released on 8/9/04 in Cockroach Eay.
YL 34	28	49	Hatched and released on 8/9/04 in Cockroach Eay.
YL 35	30	51	Hatched and released on 8/9/04 in Cockroach Eay.
YL 36	28	49.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 37	28	49	Hatched and released on 8/9/04 in Cockroach Eay.
YL 38	30	49	Hatched and released on 8/9/04 in Cockroach Eay.
YL 39	28	50	Hatched and released on 8/9/04 in Cockroach Eay.
YL 40	30	50	Hatched and released on 8/9/04 in Cockroach Eay.
YL 41	28	50.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 42	28	48.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 43	30	51.5	Hatched and released on 8/9/04 in Cockroach Eay.
YL 44	30	51	Hatched and released on 8/9/04 in Cockroach Eay.
YL 45	30	50	Hatched and released on 8/9/04 in Cockroach Eay.
YL 46	30	52	Hatched and released on 8/9/04 in Cockroach Eay.

YL 47	30	52	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 48	30	50	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 49	28	52	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 50	30	50	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 51	30	51	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 52	26	49.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 53	30	51.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 54	30	51	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 55	28	50.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 56	28	50	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 57	30	51.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 58	30	50.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 59	28	49	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 60	30	50	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 61	28	50.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 62	30	52.5	Hatched and released on 8/9/04 in Cockroach Eiy.
YL 63	30	51.5	Hatched and released on 8/9/04 in Cockroach Eiy.

ML Book

Historical Information for Turtle Tag V742

George H. Balazs
 Marine Turtle Research Program
 NOAA Fisheries
 Pacific Islands Fisheries Science Center
 2570 Dole Street
 Honolulu, Hawaii 96822-2396
 gbalazs@honiab.nmfs.hawaii.edu

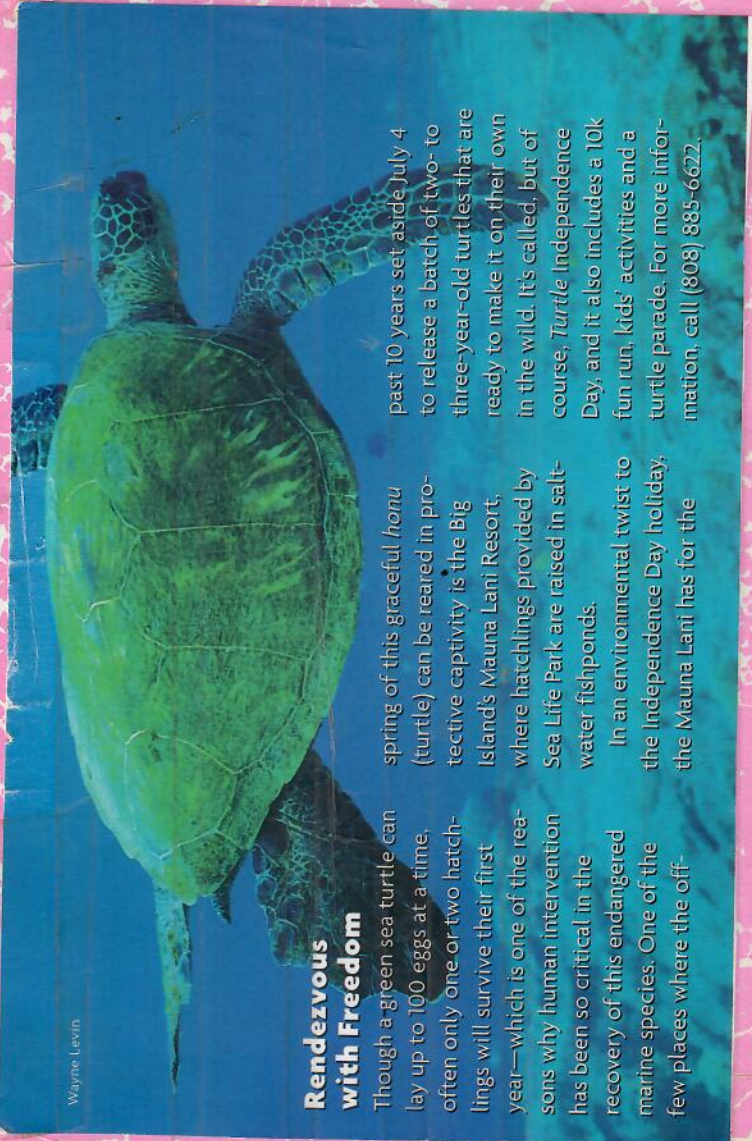
Tag Information:

Tag Number	Date	Tag Type	Tag Position
422E69493A	3/14/2002	PIT	LHF
42334C7F72	3/14/2002	PIT	RHF
V742			L23

Captive bred

Date	Type of Encounter	Location	Tumor/Rank	Nesting/Act:	Straight Carapace	Since Last Encounter			Overall				
						Interval	Year	Growth-Rates	Interval	Year	Growth-Rates		
						Month	Year	cm/mo	cm/yr	Month	Year	cm/mo	cm/yr
3/14/2002	Near Shore	Oahu, Sea Life Park, Captivity	0	-	46.5	---	---	---	---	---	---	---	---
6/20/2002	Near Shore	Hawaii, Mauna Lani, Captive	0	-	47.9	3.0	0.3	0.5	4.7	3.0	0.3	0.5	4.7
7/4/2002	Near Shore	Hawaii, Mauna Lani	0	-	62.4	---	---	---	---	3.0	0.3	---	---
10/9/2008	Stranding	Hawaii, Hilo (Keaukaha - Brown's Bch)	0	-	62.4	75.0	6.3	---	---	78.0	6.5	0.2	2.4
10/9/2008	Near Shore	Hawaii, Hilo Bay, Keaukaha - Brown's Bch - Dead	0	-	62.4	---	---	---	---	78.0	6.5	0.2	2.4

GEORGE BALAZS MAUNA LANI RELEASES



Wayne Levin

Rendezvous with Freedom

Though a green sea turtle can lay up to 100 eggs at a time, often only one or two hatchlings will survive their first year—which is one of the reasons why human intervention has been so critical in the recovery of this endangered marine species. One of the few places where the off-

spring of this graceful honu (turtle) can be reared in protective captivity is the Big Island's Mauna Lani Resort, where hatchlings provided by Sea Life Park are raised in salt-water fishponds.

In an environmental twist to the Independence Day holiday, the Mauna Lani has for the

past 10 years set aside July 4 to release a batch of two- to three-year-old turtles that are ready to make it on their own in the wild. It's called, but of course, *Turtle Independence Day*, and it also includes a 10k fun run, kids' activities and a turtle parade. For more information, call (808) 885-6622.

