

BALAZS

2011 & 2016

2 OF 2

see
p. 108

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BALAZS

COMPOSITION BOOK

KAPOHO 18-23 NOV. 11

EXPEDITION XVIII 2011

18-22 APRIL 2016

KAPOHO p. 33

Wide Ruled
100 Sheets

9.75 in x 7.5 in (24.8 cm x 19 cm)

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

Sea Turtle Tagging Form

Version 3 - Sept 2010

Turtle ID _____ Data Recorded By ELVA Kotner
Release Date 11-19-11 Release Site _____



Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-18-2011 Island HI Study Site KAPDHO Lat _____

Capture Method Net Basking Stranding Location BARSELL Pond Lon _____

Old Tags		New Tags	
PIT (LHF) _____	Tag (LHF) _____	PIT (LHF) <u>4413351067</u>	Tag _____
PIT (RHF) _____	Tag (RHF) _____		
PIT () _____	Tag () _____	PIT (RHF) <u>4414306765</u>	
Old MT _____	Other Tag _____	New MT <u>2</u>	Other _____

Measurements (cm) Comments: injuries, Abnormalities, Mouth Contents, etc.

SCL <u>44.0</u>	Lat1 <u>18.2</u>	New capture - 5' laterals right - 5th central SPLIT - NIST BLOOD - scute scap
Notch <u>24.5</u>	Lat2 <u>16.5</u>	
SCW <u>36.8</u>	Lat3 <u>12.8</u>	
CCL <u>47.5</u>	Plastron <u>36.7</u>	
CCW <u>42.5</u>	Tail <u>9.0</u>	
Head <u>7.0</u>	Vent <u>5.5</u>	

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

Tumors

	1	2	3	4	Comments
R eye					NIST
L eye					

Visual Examination

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

44.840
24.5

24.5

NOAA Pacific Marine 2570 Dole Honolulu (808) 983-5730

Cap _____ Date _____ Capture Method _____

PIT (LHF) _____ PIT (RHF) _____ PIT () _____

Notch _____ SCW _____ CCL _____ CCW _____ Head _____ RFF _____

Tumors Oral Tum Visible Tumor Score _____

Dorsal Barn Flipper Amput'd Fish Hook Boat Impact PPS

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Sea Turtle Tagging Form

Version - Sept 2010

Turtle ID _____ Data Ellie Kotner
Recorded By _____
Release Date 11-19-11 Release Site Blue inlet



Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-18-11 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net
 Basking Stranding Location Barsell Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) 483B426C56 Tag (LHF) _____ PIT (LHF) _____ Tag () _____
PIT (RHF) 485322605C Tag (RHF) _____ PIT (RHF) _____ Other _____
PIT () _____ Tag () _____ PIT (RHF) _____ Other _____
OH _____ Renewed Tag _____ New MT 3 Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

46.8
41.9
SCL 51.8 Lat1 21.2
Notch 51.7 Lat2 18.6
SCW 41.2 Lat3 14.0
CCL 56.0 Plastron 42.4
CCW 48.0 Tail 12.0
Head 16.9 Vent 8.0
RFF 4.9 Weight (lbs) 45.0

No suspicious bumps on either eye
NIST Blood Scute Scraping
NIST

Visual Examination

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

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

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

46.8
41.9
24.5
4.9

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data Recorded By Kailani Deville
 Release Date 11/19/11 Release Site BLIND INSET

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/18/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding
 Location Barsell Pond Lon _____

Old Tags		New Tags <input checked="" type="radio"/> Y <input type="radio"/> N	
PIT (LHF) _____	Tag (LHF) _____	4412790E73	
PIT (RHF) _____	Tag (RHF) _____		
PIT () _____	Tag () _____	44130B270C	
Old MT _____	Other Tag _____		Other _____
	Renewed <input type="checkbox"/>	New <input checked="" type="checkbox"/> <u>4</u>	

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 56.5 Lat1 26.5
 Notch 56.1 Lat2 23.9
 SCW 45.4 Lat3 18.3
 CCL 62.0 Plastron 45.1

(Circled in blue)
 - NIST Blood +
 - Scute scraping

CCW 56.0 Tail 14
 Head 9.2 Vent 10.5
 RFF 10.7 Weight (lbs) 65.5

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

Tumors

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

Visual Examination

Tumors	Y	N	Leeches	Y	N
Oral Tumors Visible	Y	N	Leech Eggs	Y	N
Tumor Score	<u>0</u>		Emac Code	<u>0</u>	
Dorsal Barn			Vent Barn		
Flipper Amput'd	Y	N	Carapace Damage	Y	N
Fish Hook	Y	N	Fishing Line	Y	N
Boat Impact	Y	N	Shark Attack	Y	N
PPS	<input checked="" type="radio"/> Y	<input type="radio"/> N	Photos	Y	N

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____

Data

Recorded By Kailani Dextile

Release Date 11/19/11


Release Site BAND 110501

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/18/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Basking Stranding Location Barsell Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) _____	Tag (LHF) _____	PIT (LHF) <u>4414642E78</u>	Tag () _____
PIT (RHF) _____	Tag (RHF) _____		er _____
PIT () _____	Tag () _____	44117F5822	
Old MT _____	Renewed <input type="checkbox"/> Other Tag _____	New MT <u>5</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL <u>77.4</u>	Lat1 <u>30.5</u>	<u>Forked penis coming out. Photos by .mare Rice</u> <u>NIST Blood</u> <u>Scute Scraping</u> <u>Deep, shark scratches on posterior carapace.</u> <u>3rd central = bone chipped 5x6cm</u> <u>Pre-central healing bone deep</u>
Notch <u>77.4</u>	Lat2 <u>29.5</u>	
SCW <u>63.6</u>	Lat3 <u>25.8</u>	
CCL <u>84</u>	Plastron <u>61.5</u>	
CCW <u>81</u>	Tail <u>34</u>	
Head <u>11.2</u>	Vent <u>24.5</u>	
RFF <u>13.9</u>	Weight (lbs) <u>162</u>	

Samples Y N Skin (DNA) Diet (lavage) Barnacles Tumor

Blood * Skin (SIA) Diet (mouth) Other _____

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

Visual Examination

Tumors	<input checked="" type="radio"/> Y <input type="radio"/> N	Leeches	<input type="radio"/> Y <input type="radio"/> N
Oral Tumors	<input checked="" type="radio"/> Y <input type="radio"/> N	Leech Eggs	<input type="radio"/> Y <input type="radio"/> N
Tumor Score	<u>0</u>	Emac Code	<u>0</u>
Dorsal Barn	<input type="radio"/> Y <input type="radio"/> N	Vent Barn	<input type="radio"/> Y <input type="radio"/> N
Flipper Amput'd	<input type="radio"/> Y <input type="radio"/> N	Carapace Damage	<input checked="" type="radio"/> Y <input type="radio"/> N
Fish Hook	<input type="radio"/> Y <input type="radio"/> N	Fishing Line	<input type="radio"/> Y <input type="radio"/> N
Boat Impact	<input type="radio"/> Y <input type="radio"/> N	Shark Attack	<input checked="" type="radio"/> Y <input type="radio"/> N
PPS	<input type="radio"/> Y <input checked="" type="radio"/> N	Photos	<input checked="" type="radio"/> Y <input type="radio"/> N

- Tiny red filaments in mouth
 - rugose jaw hinges
 - Slightly concave plastron

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Sea Turtle Tagging Form

Version 3 - Sept 2010

Turtle ID _____

Data Recorded By Kailani DeVille

Release Date 11/19/11

Release Site Blind Inlet



Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/18/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Basking Stranding Location Barsell Pond Lon _____

Old Tags		New Tags	
PIT (LHF) <u>4629147140</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>46283B3275</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) <u>6</u>	Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT _____	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 61.5 Lat1 28.0
 Notch 61.5 Lat2 25.1
 SCW 49.5 Lat3 19.5
 CCL 69 Plastron 50.5
 CCW 62 Tail 15
 Head _____ Vent 10
 RFF _____ Weight (lbs) 86.5

4/09 SCL = 52.6
 Weight = 53.5
NIST Blood + Scute Score

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

Tumors					Comments
	1	2	3	4	
Eye	<u>1</u>				posterior conjunctive anterior corner <u>SUSPICIOUS Bump</u> <u>ANTERIOR</u>
Eye	<u>1</u>				
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Visual Examination
 Tumors Y N Leeches Y N
 Oral Tumors Y N Leech Eggs Y N
 Visible Y N Emac Code 0
 Tumor Score 1
 Dorsal Barn _____ Vent Barn _____
 Flipper Amput'd Y N Carapace Damage Y N
 Fish Hook Y N Fishing Line Y N
 Boat Impact Y N Shark Attack Y N
 PPS Y N Photos Y N

4-5th marginal left indentation

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Data Recorded By Kailani DeVille
Release Site BI



END (141)
July 1
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Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/18/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Basking Stranding Location Barsell Pond Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag ()
<u>45266C2005</u>			
<u>4525507112</u>			
()	()		Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT <u>7</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 63.4 Lat1 29.7
Notch 63.4 Lat2 26.0
SCW 50.1 Lat3 19.7
CCL 69.0 Plastron 51.6
CCW 64.5 Tail 17.5
Head _____ Vent 11.5
RFF _____ Weight (lbs) 94

7/09 SCL = 50.6
weight = 45
(NIST + scute scap)

Visual Examination

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

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

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

1 #1 growth RFF regresssed
2 #1 growths LFF regresssed

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HOT POND SCOOP NET DAYTIME

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____ Data Recorded By 11-19
Release Date 11-19-2011 Release Site BLIND INLET

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-19-2011 Island HAWAII Study Site KAPOHO Lat _____

Capture Method Scoop Net Location SMALL HOT POND Lon _____

Old Tags _____ New Tags Y N

PIT (LHF)	Tag (LHF)	PIT (LHF)	<u>4414273919</u>
PIT (RHF)	Tag (RHF)	PIT (RHF)	<u>44127D6D12</u>
PIT ()	Tag ()	PIT ()	
Old MT	Renewed <input type="checkbox"/>	Other Tag	New MT <u>8</u>

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 60.5 Lat1 23.5
 Notch 60.2 Lat2 20.2
 SCW 47.7 Lat3 16.8
 CCL 65.0 Plastron 47.4
 CCW 56.5 Tail 13
 Head - Vent 8
 RFF - Weight (lbs) 61.2

NIST
Blood + Scutes

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

Tumors

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

Visual Examination
 Tumors Y N Leeches Y N
 Oral Tumors Y N Leech Eggs Y N
 Tumor Score 3 Emac Code 0
 Dorsal Barn Vent Barn
 Flipper Y N Carapace Y N
 Amput'd Y N Damage Y N
 Fish Y N Fishing Y N
 Hook Y N Line Y N
 Boat Y N Shark Y N
 Impact Y N Attack Y N
 PPS Y N Photos Y N

See other page 165
TUMOR PAGE

HOT POND
SCOOP NET DAYTIME

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data _____
Recorded By _____
Release Date 11-19-11 Release Site Blind Inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-19-11 Island HAWAII Study Site KAPOHO Lat _____

Capture Method Hand Hand/Snorkel Scoop Net
 Net Basking Stranding Location SMALL HOT POND Lon _____

Old Tags		New Tags	
PIT (LHF) <u>46019C6814</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>4525721438</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) _____	Other _____
Old MT _____	Other Tag _____	New MT <u>9</u>	Other _____

Measurements (cm)	Comments: injuries, Abnormalities, Mouth Contents, etc.
SCL <u>69.5</u> Lat1 <u>29.5</u>	Patch 1.5cm on posterior plastron <u>NIST BLOOD & SCUTES</u>
Notch <u>68.8</u> Lat2 <u>27.0</u>	
SCW <u>56.5</u> Lat3 <u>22.2</u>	
CCL <u>74.5</u> Plastron <u>56.0</u>	
CCW <u>67.5</u> Tail <u>15.5</u>	

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

Visual Examination		Tumors					Comments
1	2	3	4				
Tumors <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Leeches Y <input checked="" type="checkbox"/> N						
Oral Tumors Y <input checked="" type="checkbox"/> N	Leech Eggs Y <input checked="" type="checkbox"/> N						
Tumor Score <u>1</u>	Emac Code <u>0</u>					Dorsal, distile distal	
Dorsal Barn <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Vent Barn <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N						
Flipper Amput'd <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Carapace Damage Y <input checked="" type="checkbox"/> N						
Fish Hook Y <input checked="" type="checkbox"/> N	Fishing Line Y <input checked="" type="checkbox"/> N						
Boat Impact Y <input checked="" type="checkbox"/> N	Shark Attack Y <input checked="" type="checkbox"/> N						
PPS <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Photos <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N						

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

4/2009 MT 33 63.8 cm 8515 165 (175) (170)

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____ Data Recorded By AMANDA SMR
Release Date 11-2011 Release Site Blond inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-19-2011 Island HI Study Site Kapoho Lat _____

Capture Method Net Basking Stranding Location BARSEIL Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) 4850306308 Tag (LHF) _____
PIT (RHF) 485328240F Tag (RHF) _____
PIT () _____ Tag () _____
Other _____
Renewed Tag _____
New MT _____ Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 67.9 Lat1 30.0
Notch 67.7 Lat2 27.3
SCW 55.5 Lat3 22.3
CCL 74.5 Plastron 52.5
CCW 67.0 Tail 18.5
Head _____ Vent 13.5
RFF _____ Weight (lbs) 111

Old patches in seams of marginals

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

Tumors

	1	2	3	4	Comments
Eye					
Eye					
Mouth	<u>2</u>				<u>Left Jaw ting</u>
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Visual Examination
Tumors Y N Leeches Y N
Oral Tumors Y N Leech Eggs Y N
Visible Y N
Tumor Score 1 Emac Code 0
Dorsal Barn _____ Vent Barn _____
Flipper Amput'd Y N Carapace Damage Y N
Fish Hook Y N Fishing Line Y N
Boat Impact Y N Shark Attack Y N
PPS Y N Photos Y N

and Right
no visible Externally

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID

Data

Recorded By Amanda Strawn

Release Date

11-20-11

Release Site

Blind Tule

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-19-2011 Island HI Study Site KAPOHO Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding Location BARSOLO POND Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) 457C6B462C Tag (LHF) _____ PIT (RHF) 16Q7194852 Tag (RHF) _____
 PIT () _____ Tag () _____ PIT (RHF) _____ Other _____
 Old MT _____ Other Tag _____ New MT 11 Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 72.2 Lat1 29.9
 Notch 72.0 Lat2 28.4
 SCW 54.9 Lat3 22.6
 CCL 78.0 Plastron 58.2

2e pigmented spot ^{of skin} anterior right eye

CCW 74.5 Tail 16.0
 Head _____ Vent 11.0
 RFF _____ Weight (lbs) 115.0

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

Visual Examination

		Tumors				Comments
		1	2	3	4	
Tumors	Y N					
Oral Tumors Visible	Y N					
Tumor Score						
Dorsal Barn	Y N					
Flipper Amput'd	Y N					
Fish Hook	Y N					
Boat Impact	Y N					
PPS	Y N					
Leeches	Y N					
Leech Eggs	Y N					
Emac Code						
Vent Barn	Y N					
Carapace Damage	Y N					
Fishing Line	Y N					
Shark Attack	Y N					
Photos	Y N					
RFF						
LFF						
RHF						
LHF						
Tail Cloaca						
Seams Scutes						
TOTAL						

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Sea Turtle Tagging Form Version 3 - Sept 2010

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Turtle ID _____ Data Recorded By AMANDA STARK
 Release Date 11/20/11 Release Site Blind Islet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/19/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Basking Stranding Location Barsell Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) 48507E0F28 Tag (LHF) _____ PIT (RHF) 4850321575F Tag (RHF) _____
 PIT () _____ Tag () _____ PIT (RHF) _____ Other _____
 Old MT _____ Other Tag _____ New MT 12 Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 52.4 Lat1 20.0
 Notch 51.3 Lat2 17.6
 SCW 43.8 Lat3 14.2
 CCL 56.5 Plastron 43.4
 CCW 52.5 Tail 9.0
 Head _____ Vent 6.0
 RFF _____ Weight (lbs) 40.5

SHARP
 THIN TRANSLUCENT
 HIND FLIPPER EDGES
 2nd tips of FF offshore?
 clean skin - been offshore?

Visual Examination

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

Samples Y N		<input type="checkbox"/> Skin (DNA)	<input type="checkbox"/> Diet (lavage)	<input type="checkbox"/> Barnacles	<input type="checkbox"/> Tumor
<input checked="" type="checkbox"/> Blood		<input type="checkbox"/> Skin (SIA)	<input type="checkbox"/> Diet (mouth)	Other <u>scutes</u>	
Tumors					
	1	2	3	4	Comments
R eye					<u>NEST</u> <u>scute</u> <u>+ scapulars</u>
L eye					
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

6 centrals FLAT PASTRON

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Sea Turtle Tagging Form Version 3 - Sept 2010

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Turtle ID _____ Data _____
 Recorded By ATAUDA STARR
 Release Date 11/20/11 Release Site Blind Inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/19/11 Island HI Study Site Kapoho Lat _____
 Capture Method Net Basking Stranding Location Barsell Pond Lon _____

Old Tags		New Tags	
PIT (LHF) _____	Tag (LHF) _____	PIT (LHF) <u>4421636542</u>	_____
PIT (RHF) _____	Tag (RHF) _____	PIT (RH) <u>4413105E25</u>	_____
PIT () _____	Tag () _____	New MT <u>13</u>	Other _____

Measurements (cm)	Comments: Injuries, Abnormalities, Mouth Contents, etc.
SCL <u>49.5</u> Lat1 <u>21.0</u>	<div style="border: 2px solid blue; border-radius: 50%; padding: 10px; display: inline-block;"> <p>NIST + SCRAP S</p> </div>
Notch <u>49.1</u> Lat2 <u>18.2</u>	
SCW <u>41.0</u> Lat3 <u>13.9</u>	
CCL <u>54.0</u> Plastron <u>40.2</u>	
CCW <u>47.5</u> Tail <u>10</u>	
Head _____ Vent <u>6.5</u>	
RFF _____ Weight (lbs) <u>42.0</u>	Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input checked="" type="checkbox"/> Blood <input type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input checked="" type="checkbox"/> Other <u>Scutes</u>

Visual Examination		Tumors				Comments
		1	2	3	4	
Tumors <input checked="" type="radio"/> Y <input type="radio"/> N	Leeches <input type="radio"/> Y <input checked="" type="radio"/> N					
Oral Tumors <input type="radio"/> Y <input checked="" type="radio"/> N	Leech Eggs <input type="radio"/> Y <input checked="" type="radio"/> N					
Tumor Score <u>1</u>	Emac Code <u>0</u>					
Dorsal Barn <input type="radio"/> Y <input checked="" type="radio"/> N	Vent Barn <input type="radio"/> Y <input checked="" type="radio"/> N					
Flipper Amput'd <input type="radio"/> Y <input checked="" type="radio"/> N	Carapace Damage <input type="radio"/> Y <input checked="" type="radio"/> N					
Fish Hook <input type="radio"/> Y <input checked="" type="radio"/> N	Fishing Line <input type="radio"/> Y <input checked="" type="radio"/> N					
Boat Impact <input type="radio"/> Y <input checked="" type="radio"/> N	Shark Attack <input type="radio"/> Y <input checked="" type="radio"/> N					
PPS <input type="radio"/> Y <input checked="" type="radio"/> N	Photos <input type="radio"/> Y <input checked="" type="radio"/> N					

Upper eyelid

NIST
+ SCRAP S

50% Vision +
 Suspicious bumps along

ventral snoulder

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data Recorded By Amanda Stark
 Release Date 11/20/11 Release Site Blind hole

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/19/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding
 Location Barsell Pond Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag (LHF)
		4414541222	
		4413167F6E	
		14	

Old MT _____ Other Tag _____ Renewed New MT _____ Other _____

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.	
SCL <u>77.5</u>	Lat1 <u>32.4</u>	<u>lawn grass in feces</u> <u>NIST</u>	
Notch <u>77.2</u>	Lat2 <u>29.5</u>		
SCW <u>60.7</u>	Lat3 <u>23.7</u>		
CCL <u>84.0</u>	Plastron <u>61.9</u>		
CCW <u>74.0</u>	Tail <u>21.0</u>		
Head <u>11.2</u>	Vent <u>14.5</u>		
RFF <u>12.4</u>	Weight (lbs) <u>150.7</u>	Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Blood <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input checked="" type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input type="checkbox"/> Other <u>scutes</u>	

Visual Examination				Tumors						
Tumors	Y	N	Leeches	Y	N	1	2	3	4	Comments
Oral Tumors Visible	Y	N	Leech Eggs	Y	N					
Tumor Score	<u>0</u>		Emac Code	<u>0</u>						
Dorsal Barn Flipper Amput'd	Y	N	Vent Barn Carapace Damage	Y	N					
Fish Hook	Y	N	Fishing Line	Y	N					
Boat Impact	Y	N	Shark Attack	Y	N					
PPS	<u>Y</u>	N	Photos	Y	N					

4.4 cm/year since April '09

(151)

(6)
(15)

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____
Release Date 11/20/11

Data Recorded By AMANDA STARBUCK
Release Site Windward

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/19/11 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Net Hand/Snorkel _____ Scoop Net _____
Location Barselloand Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag ()
<u>4956325B24</u>			
<u>485260186</u>			
()	()		Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT <u>15</u>	Other _____

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.																																																																									
SCL <u>55.2</u>	Lat1 <u>24.5</u>	Both eyes perfectly normal. <u>NIST Blood & Scute Scraping</u>																																																																									
Notch <u>55.0</u>	Lat2 <u>21.8</u>																																																																										
SCW <u>45.1</u>	Lat3 <u>16.2</u>																																																																										
CCL <u>60.5</u>	Plastron <u>12.44.6</u>																																																																										
CCW <u>53.5</u>	Tail <u>8.5</u>																																																																										
Head _____	Vent <u>8.5</u>																																																																										
RFF _____	Weight (lbs) <u>41.5</u>	Samples <input checked="" type="checkbox"/> Blood <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input checked="" type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input checked="" type="checkbox"/> Other <u>Scutes</u>																																																																									
Visual Examination Tumors <u>Y</u> <u>N</u> Leeches <u>Y</u> <u>N</u> Oral Tumors <u>Y</u> <u>N</u> Leech Eggs <u>Y</u> <u>N</u> Visible _____ Emac Code <u>0</u> Tumor Score _____ Dorsal Barn _____ Vent Barn _____ Flipper Amput'd <u>Y</u> <u>N</u> Carapace Damage <u>Y</u> <u>N</u> Fish Hook <u>Y</u> <u>N</u> Fishing Line <u>Y</u> <u>N</u> Boat Impact <u>Y</u> <u>N</u> Shark Attack <u>Y</u> <u>N</u> PPS <u>Y</u> <u>N</u> Photos <u>Y</u> <u>N</u>		Tumors <table border="1"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>R eye</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>L eye</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mouth</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Neck</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RFF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LFF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RHF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LHF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tail Cloaca</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Seams Scutes</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			1	2	3	4	Comments	R eye						L eye						Mouth						Neck						RFF						LFF						RHF						LHF						Tail Cloaca						Seams Scutes						TOTAL					
	1	2	3	4	Comments																																																																						
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Sea Turtle Tagging Form Version 3 - Sept 2010

Data
 Recorded By Amanda S.
 Release Date 11/19/11 Release Site Biket



153
 7 16

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/19/11 Island HI Study Site Kapono Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding
 Location Barsell Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) H70B395340 Tag (LHF) _____
 PIT (RHF) H70C60451A Tag (RHF) _____
 PIT () _____ Tag () _____
 Old MT _____ Other Tag _____
 New MT 116 Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 69.3 Lat1 30.9
 Notch 69.3 Lat2 28.4
 SCW 56.9 Lat3 23.2
 CCL 76.0 Plastron 57.7
 CCW 71.0 Tail 21.0
 Head — Vent 14.0
 RFF — Weight (lbs) 123.65

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

Visual Examination

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

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

Capture
7:30 PM

8 (17)

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data Recorded By _____
Release Date 11-20-11 Release Site Bliss Islet

Capture Information: Species CM EI LO Sex M F U U Recapture Y N

Date 11-20-11 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net
Location BARSELL Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) _____ Tag (LHF) _____
PIT (RHF) _____ Tag (RHF) _____
PIT () _____ Tag () _____
Old MT _____ Other Tag _____
Renewed Tag _____

PIT (LHF) 4414403833
PIT (RHF) 44143E4811
New MT (17) Other _____

Measurements (cm) Comments: injuries, Abnormalities, Mouth Contents, etc.

SCL 77.2 Lat1 33.0
Notch 77.2 Lat2 29.4
SCW 62.7 Lat3 22.9
CCL 83.5 Plastron 62.3
CCW 78.0 Tail 21.0
Head 10.7 Vent 135
RFF 13.1 Weight (lbs) 154.5

NIST Blood
+ scute scrape

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

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

Visual Examination

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

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____
Release Date 11-21-11

Data Recorded By Emmanuel Okon
Release Site BLIND INLET

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-20-11 Island _____ Study Site _____ Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding
Location BARSEEL Pond Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag ()
<u>4029 B11A 1F</u>			
<u>470 B1E616A</u>			
PIT ()	Tag ()	PIT (RHF)	Other
Old MT	Other Tag	New MT	Other
	Renewed <input type="checkbox"/>	<u>18</u>	

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL	<u>46.4</u>	Lat1	<u>17.9</u>
Notch	<u>46.2</u>	Lat2	<u>15.1</u>
SCW	<u>37.1</u>	Lat3	<u>11.8</u>
CCL	<u>58.5</u>	Plastron	<u>37.4</u>
CCW	<u>43.0</u>	Tail	<u>8.5</u>
Head		Vent	<u>5.5</u>
RFF		Weight (lbs)	<u>29.0</u>

WIST Blood Sample
Scute sampling
9190 ACCOPTOL

Visual Examination

Tumors	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Leeches	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Oral Tumors Visible	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Leech Eggs	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Tumor Score	<u>3</u>	Emac Code	<u>0</u>
Dorsal Barn		Vent Barn	
Flipper Amput'd	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Carapace Damage	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Fish Hook	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Fishing Line	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Boat Impact	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Shark Attack	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
PPS	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Photos	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N

Tumors					Comments
1	2	3	4		
R eye	1				No vision
L eye	11				10% V
Mouth	1	1RSH	1LSH		glottis, #1;
Neck					
RFF			1		
LFF	1				
RHF		1	1		
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Blood Skin (SIA) Diet (mouth) Other *leech eggs and leeches*

157

44 (2) 19

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____

Data Recorded By Emmanuela Olat

Release Date 11-21-11

Release Site Blundriet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-20-11 Island _____ Study Site _____ Lat _____

Capture Method Net Basking Stranding Location Barsell Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) <u>470D125C18</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>470A48435F</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) _____	Other _____
Old MT _____	Renewed <input type="checkbox"/> Other Tag _____	New MT <u>19</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 68.2 Lat1 22.1
 Notch 59.9 Lat2 19.7
 SCW 46.3 Lat3 15.4
 CCL 64.5 Plastron 47.9
 CCW 57.0 Tail 13.5
 Head _____ Vent 9.5
 RFF _____ Weight (lbs) 62.0

flat plastron
~~NISI~~
Blood + scute scrapings

Visual Examination

Tumors Y N
 Oral Tumors Y N
 Visible Y N
 Tumor Score 3
 Dorsal Barn _____ Vent Barn _____
 Flipper Amput'd Y N
 Fish Hook Y N
 Boat Impact Y N
 PPS Y N

Samples N Skin (DNA) Diet (lavage) Barnacles Tumor
 Blood Skin (SIA) Diet (mouth) Other scutes

Tumors					Comments
	1	2	3	4	
R eye	I	I			80% V
L eye		II			20% V
Mouth		I	I		
Neck		IIII	IIII		
RFF		IIII	IIII		
LFF		IIII	IIII		
RHF					
LHF		II			
Tail Cloaca	I	II			
Seams		II			
Scutes		II			
TOTAL					

920

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data Recorded By Emmanuel Oka
Release Date 11-21-11 Release Site Blind Mt

Capture Information: Species HI CM U EI U LO U Sex M F U Recapture Y N

Date 11-20-11 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Net Hand/Snorkel Net Scoop Net Net
Basking Net Stranding Net Location Barsell Pond Lon _____

Old Tags _____ New Tags _____ Y N

PIT (LHF) 470A082A 21 Tag (LHF) _____
PIT (RHF) 470B493B6D Tag (RHF) _____
PIT () _____ Tag () _____
Old MT _____ Renewed Tag _____
New MT 20 Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 67.3 Lat1 29.6
Notch 67.1 Lat2 26.1
SCW _____ Lat3 19.9
CCL 73.5 Plastron 53.3

healed indentation the right of carapace
NIST Blood + scutes

CCW _____ Tail 17
Head _____ Vent 11
RFF _____ Weight (lbs) 99.5

Samples Y = N Skin (DNA) Diet (lavage) Barnacles Tumor
 Blood Skin (SIA) Diet (mouth) Other scute

Visual Examination
Tumors Y N Leeches Y N
Oral Tumors Y N Visible Leech Eggs
Tumor Score 2 Emac Code _____
Dorsal Barn _____ Vent Barn _____
Flipper Amput'd Y N Carapace Damage Y N
Fish Hook Y N Fishing Line Y N
Boat Impact Y N Shark Attack Y N
PPS Y N Photos Y N

Tumors					Comments
1	2	3	4		
R Eye					
L Eye		small			
Mouth	H				1#1 RJH
Neck		I			
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL	9	3			

93

159
4
21

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Sea Turtle Tagging Form Version 3 - Sept 2010

Date _____
Recorded By Emmanuel
Release Date 11-21-11 Release Site Blue Lagoon



Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-20-11 Island _____ Study Site _____ Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Location Barsell Pond Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag (LHF)
		4421656307	
		4414597439	
		21	

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 61.8 Lat1 26.9
Notch 61.3 Lat2 23.5
SCW 48.2 Lat3 18.6
CCL 67.5 Plastron 50.3
CCW 59.5 Tail 14.5
Head _____ Vent 10.0
RFF _____ Weight (lbs) 79.2

Dist
Cym
Small Blood

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

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

Visual Examination

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

2mm white pearl bump left side of glottis

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____ Data Recorded By _____

Release Date 11/22/2011 Release Site Blind Inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/21/2011 Island HI Study Site Kapoho Lat _____

Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding
 Location BARSELL POND Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) 44525E3057 Tag (LHF) _____
 PIT (RHF) 44552C3A17 Tag (RHF) _____
 PIT () _____ Tag () _____
 Old MT _____ Renewed Other Tag _____
 New MT 22 Other _____

Measurements (cm) _____ Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 58.9 Lat1 24.0
 Notch 58.7 Lat2 20.9
 SCW 49.1 Lat3 17.1
65.0
 CCL _____ Plastron 47.0

NIST Blood + Scutes

CCW 58.0 Tail 15.5
 Head _____ Vent 9.0
 RFF _____ Weight (lbs) 70.0

Samples Y N Skin (DNA) Diet (lavage) Barnacles Tumor
 Blood Skin (SIA) Diet (mou:h) Scute

		Tumors				Comments
		1	2	3	4	
R eye			1			RE NO VISION
L eye		1	1			LE #1 posterior #2 Radunculated - Eye blocked
Mouth		1				1 L L 1 R L
Neck						
RFF		1				
LFF		1	1			
RHF						
LHF						
Tail Cloaca						
Seams Scutes						
TOTAL		8	2			

Visual Examination
 Tumors Y N Leeches Y N
 Oral Tumors Y N Leech Eggs Y N
 Visible Tumor Score 1 Emac Code _____
 Dorsal Barn _____ Vent Barn _____
 Flipper Amput'd Y N Carapace Damage Y N
 Fish Hook Y N Fishing Line Y N
 Boat Impact Y N Shark Attack Y N
 PPS Y N Photos Y N

Suspicious bump on cloaca

161
22

10/13/05 SCC = 75.9
WT = 153.0

23

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Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data Recorded By BLINDINIEF
Release Date 11/22/11 Release Site BLINDINIEF

Capture Information: Species CM EF LO Sex M F U Recapture Y N
Date 11-21-2011 Island HI Study Site KAPOTTO Lat _____
Capture Method Net Hand Hand/Snorkel Scoop Net Basking Stranding
Location BARSELL POND Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag ()
<u>4700783256</u>			
<u>4709727554</u>			
PIT ()	Tag ()	PIT (RHF)	Other
Old MT	Other Tag <input type="checkbox"/> Renewed	New MT <u>#23</u>	Other

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.																																																																														
SCL <u>80.1</u>	Lat1 <u>34.9</u>	<p><u>NTST</u> <u>blood</u> <u>+ scute</u></p>																																																																														
Notch <u>79.9</u>	Lat2 <u>32.7</u>																																																																															
SCW <u>63.5</u>	Lat3 <u>27.3</u>																																																																															
CCL <u>86.5</u>	Plastron <u>63.5</u>																																																																															
CCW <u>785</u>	Tail <u>35.0</u> <u>24.5</u>																																																																															
Head _____	Vent <u>24.5</u>	Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input checked="" type="checkbox"/> Blood <input type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input checked="" type="checkbox"/> Other <u>scute</u>																																																																														
RFF _____	Weight (lbs) <u>180.2</u>	<table border="1"> <thead> <tr> <th colspan="5">Tumors</th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>R eye</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>L eye</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mouth</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Neck</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RFF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LFF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RHF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LHF</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tail Cloaca</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Seams Scutes</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Tumors						1	2	3	4	Comments	R eye						L eye						Mouth						Neck						RFF						LFF						RHF						LHF						Tail Cloaca						Seams Scutes						TOTAL					
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Visual Examination

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

2/12/2010 - Mangroves cove
 SC# = 56 CCI 60.5
 WT. 62

163

24

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

Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____ Data _____
 Recorded By _____
 Release Date 11/22/11 Release Site BLIND INLET

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/21/11 Island HI Study Site KAPOHO Lat _____

Capture Method Hand Net Hand/Snorkel Scoop Net _____
 Net Basking Stranding _____ Location BARSELL Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) 44542850 Tag (LHF) _____
 PIT (RHF) 443A2906 Tag (RHF) _____
 PIT () _____ Tag () _____
 Old MT _____ Other Tag _____
 New MT #24 Other _____

Measurements (cm) _____ Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 61.1 Lat1 26.8
 Notch 60.9 Lat2 23.6
 SCW 50.7 Lat3 19.3
 CCL 66.5 Plastron 50.7
 CCW 61.0 Tail 12.5
 Head _____ Vent 8.5
 RFF _____ Weight (lbs) 80.5

NIST + Scute

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

Tumors

	1	2	3	4	Comments
R eye	<u>1</u>				<u>Posterior corner</u>
L eye					
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Visual Examination

Tumors Y N Leeches Y N
 Oral Tumors Y N Y N
 Visible Leech Eggs _____
 Tumor Score 1 Emac Code _____
 Dorsal Barn _____ Vent Barn _____
 Flipper Amput'd Y N Carapace Damage Y N
 Fish Hook Y N Fishing Line Y N
 Boat Impact Y N Shark Attack Y N
 PPS Y N Photos Y N

see 142

SCORE 3

(165)

Tumored turtle #

PIT #

4414273919

1#3 Neck, 1#1 Neck

2#2 Neck, 1#2

R Jaw hing

1#3 - infiltrate into
mouth into soft palate

L Jaw Hinge

1#2 infiltrate into
soft palate

LFL

1#3, 2#2, 2#1

RFL

1#3, 3#2, 1#1

R Eye - cornea collapsed?

1#2 winging eye, 20% vision

L Eye - 1#3, a visual

167

25



Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____

Data Recorded By _____

Release Date 11/22/11

Release Site BLIND INLET

Capture Information: Species CM El LO Sex M F U Recapture Y N

Date 11-21-11 Island HAWAII Study Site KAPOHO Lat _____

Capture Method Net Basking Stranding Location BARSELL POND Lon _____

Old Tags		New Tags	
Y	N	Y	N
PIT (LHF) <u>4850705170</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>4850106410</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) <u>#25</u>	Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT _____	Other _____

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.																																																																														
SCL <u>58.7</u>	Lat1 <u>26.6</u>	<u>L/R eye suspicious bump protruding conjunctiva.</u> <u>All leeches collected & leech eggs collected.</u>																																																																														
Notch <u>58.4</u>	Lat2 <u>23.5</u>																																																																															
SCW <u>45.9</u>	Lat3 <u>18.0</u>																																																																															
CCL <u>64.5</u>	Plastron <u>47.2</u>																																																																															
CCW <u>55.5</u>	Tail <u>14.0</u>																																																																															
Head _____	Vent <u>9.5</u>	Samples <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input type="checkbox"/> Blood <input type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input type="checkbox"/> Other _____																																																																														
RFF _____	Weight (lbs) <u>70.7</u>	<table border="1"> <thead> <tr> <th colspan="5">Tumors</th> <th rowspan="2">Comments</th> </tr> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr><td>R eye</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L eye</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Mouth</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Neck</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>RFF</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>LFF</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>RHF</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>LHF</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Tail Cloaca</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Seams Scutes</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TOTAL</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Tumors					Comments		1	2	3	4	R eye						L eye						Mouth						Neck						RFF						LFF						RHF						LHF						Tail Cloaca						Seams Scutes						TOTAL					
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Seams Scutes																																																																																
TOTAL																																																																																

Visual Examination			
Tumors	Y	N	Leeches <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Oral Tumors Visible	Y	N	Leech Eggs <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Tumor Score	<u>0</u>		Emac Code _____
Dorsal Barn Flipper Amput'd	Y	N	Vent Barn Carapace Damage Y N
Fish Hook	Y	N	Fishing Line Y N
Boat Impact	Y	N	Shark Attack Y N
PPS	Y	<u>N</u>	Photos Y N



Sea Turtle Tagging Form

Version 3 - Sept 2010

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26



Turtle ID _____

Data Recorded By _____

Release Date 11/22/11

Release Site Blind inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11/21/2011 Island H2 Study Site Kapoho Lat _____

Capture Method
Hand Hand/Snorkel Scoop Net
 Net Basking Stranding

Location BARSOI POND Lon _____

Old Tags		New Tags	
PIT (LHF) <u>4856412970</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>483812882F</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) _____	Other _____
Old MT _____	Other Tag _____	New MT <u>#26</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL <u>53.4</u>	Lat1 <u>21.3</u>	<u>NIST</u> scute slit 10cm long Right Eye - white dot still there
Notch <u>53.4</u>	Lat2 <u>19.6</u>	
SCW <u>42.1</u>	Lat3 <u>15.0</u>	
CCL <u>58.0</u>	Plastron <u>42.6</u>	
CCW <u>50.0</u>	Tail <u>11.6</u>	

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

Tumors

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

Visual Examination

Tumors <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Leeches Y N
Oral Tumors Y N	Leech Eggs Y N
Visible <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Emac Code _____
Tumor Score <u>2</u>	
Dorsal Barn	Vent Barn
Flipper Amput'd Y N	Carapace Damage Y N
Fish Hook Y N	Fishing Line Y N
Boat Impact Y N	Shark Attack Y N
PPS Y <input checked="" type="checkbox"/> N	Photos Y N

DAY 4
EUB



27

Sea Turtle Tagging Form Version 3 - Sept 2010



Turtle ID _____

Date MANOA
Recorded By _____

Release Date 11/22/11

Release Site Blind inlet

Capture Information:

Species CM EI LO Sex M F U Recapture Y N

Date 11/22/11 Island He Study Site Kapoho Lat _____

Capture Method
Hand Hand/Snorkel Scoop Net
 Net Basking Stranding

Location Boursell Pond Lon _____

Old Tags

New Tags Y N

PIT (LHF) _____ Tag (LHF) _____
PIT (RHF) _____ Tag (RHF) _____
PIT () _____ Tag () _____
Old MT _____ Other Tag _____
Renewed

PIT (LHF) 44130 DTC31 Tag () _____
PIT (RH) 44130A5B40
New MT #27 Other _____



Measurements (cm)

Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 83.4 Lat1 34.4
Notch 83.4 Lat2 32.6
SCW 67.6 Lat3 27.5
CCL 40.0 Plastron 68.1
CCW 84.0 Tail 23.0
Head 12.6 Vent 14.0
RFF 14.7 Weight (lbs) 147.0

NIST Blood & Scutes

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

Tumors

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

Visual Examination

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

171



3PM Sea Turtle Tagging Form

Version 3 - Sept 2010

28



Turtle ID _____ Data Recorded By _____

Release Date 11-22-11 Release Site BLIND INLET

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-22-2011 Island HAWAII Study Site KAPOHO Lat _____

Capture Method Hand Hand/Snorkel Scoop Net Location BLIND INLET Lon _____

Old Tags		New Tags	
PIT (LHF) <u>470A204473</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>470B36627</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) _____	Other _____
Old MT _____	Renewed <input type="checkbox"/> Other Tag _____	New MT <u>28</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL <u>62.8</u>	Lat1 <u>25.8</u>
Notch <u>62.4</u>	Lat2 <u>23.3</u>
SCW <u>49.7</u>	Lat3 <u>18.3</u>
CCL <u>67.5</u>	Plastron <u>50.3</u>
CCW <u>58.5</u>	Tail <u>14.5</u>
Head <u>9.3</u>	Vent <u>9.5</u>
RFF <u>10.1</u>	Weight (lbs) <u>76.5/68</u>

NIST (Blood, Scute)
NIST

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

Tumors

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

Visual Examination

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

UNK

173

29



308 pm Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____ Data Recorded By _____
Release Date 11/22/11 Release Site Blind Inlet

Capture Information: Species CM El LO Sex M F U Recapture Y N

Date 11/22/11 Island HAWAII Study Site Kapoho Lat _____
Capture Method Hand/Snorkel Location BLIND Inlet Lon _____
Net Basking Stranding

Old Tags		New Tags	
PIT (LHF) _____	Tag (LHF) _____	PIT (LF) <u>4359047A4A</u>	_____
PIT (RHF) _____	Tag (RHF) _____	PIT (RF) <u>442D200045</u>	_____
PIT () _____	Tag () _____	New MT <u>(29)</u>	Other _____
Old MT _____	Other Tag _____		

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.	
SCL <u>53.2</u>	Lat1 <u>23.5</u>	<u>NIST (Blood) (Scute)</u> <u>NIST</u>	
Notch <u>53.1</u>	Lat2 <u>20.7</u>		
SCW <u>42.0</u>	Lat3 <u>16.1</u>		
CCL <u>57.5</u>	Plastron <u>42.4</u>		
CCW <u>50.0</u>	Tail <u>11.0</u>		
Head <u>8.0</u>	Vent <u>8.0</u>		
RFF <u>9.0</u>	Weight (lbs) <u>50.0</u>	Samples Y <u>N</u> <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input checked="" type="checkbox"/> Blood <input type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input checked="" type="checkbox"/> Other <u>Scutes</u>	

Visual Examination				Tumors				Comments			
	Y	N		1	2	3	4				
Tumors	<u>Y</u>	<u>N</u>	Leeches	<u>Y</u>	<u>N</u>						
Oral Tumors Visible	<u>Y</u>	<u>N</u>	Leech Eggs	<u>Y</u>	<u>N</u>						
Tumor Score	<u>0</u>		Emac Code	<u>0</u>							
Dorsal Barn	<u>Y</u>	<u>N</u>	Vent Barn	<u>Y</u>	<u>N</u>						
Flipper Amput'd	<u>Y</u>	<u>N</u>	Carapace Damage	<u>Y</u>	<u>N</u>						
Fish Hook	<u>Y</u>	<u>N</u>	Fishing Line	<u>Y</u>	<u>N</u>						
Boat Impact	<u>Y</u>	<u>N</u>	Shark Attack	<u>Y</u>	<u>N</u>						
PPS	<u>Y</u>	<u>N</u>	Photos	<u>Y</u>	<u>N</u>						

UNK

KAPOTTO

1122 h.

Blind inlet

Released
11/22/11 Blind inlet

30

Hand snorkel capture

new

11/22/2011

LH

442F437875



RH

44143E6A26



NIST
Blood & Scutes

SCL 54.8

SCW 44.0

CCW = 52.0

CCL = 58

Head 8.7

RF = 9.6

Lat 1 = 20.7

Lat 2 = 16.4

Lat 3 = 13.5

47 lbs

Plastron = 40.5

Tail = 15

Vent = 10

MT 30
Plastron Flat - E C₁ = 1
PPS = 4

TS ∅



Sea Turtle Tagging Form

Version 3 - Sept 2010



2340pm

END

175
31

Turtle ID _____ Data _____
Recorded By Emily Yoshida
Release Date 11-22-2011 Release Site Blind Inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-22-11 Island HAWAII Study Site KAPOTTO Lat _____

Capture Method Hand Hand/Snorkel Scoop Net
Net Basking Stranding Location BLIND INLET Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag (LHF)
			441327516A
			4414710067
		New MT <u>(31)</u>	Other _____

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.	
SCL <u>62.5</u>	Lat1 <u>27.3</u>	<u>Rice's Head: 16.0 cm (Photo Taken)</u> <u>Turtle's Head = 9.5</u>	
Notch <u>62.5</u>	Lat2 <u>25.4</u>		
SCW <u>51.9</u>	Lat3 <u>20.0</u>		
CCL <u>68.5</u>	Plastron <u>51.3</u>		
CCW <u>64.5</u>	Tail <u>15.5</u>		
Head <u>9.5</u>	Vent <u>9.5</u>		
RFF <u>11.2</u>	Weight (lbs) <u>87.0</u>	Samples <u>Y</u> <u>N</u> <input type="checkbox"/> Skin (DNA) <input type="checkbox"/> Diet (lavage) <input type="checkbox"/> Barnacles <input type="checkbox"/> Tumor <input type="checkbox"/> Blood <input type="checkbox"/> Skin (SIA) <input type="checkbox"/> Diet (mouth) <input type="checkbox"/> Other _____	

Visual Examination				Tumors				
Tumors	Leeches	Emac Code	Other	1	2	3	4	Comments
<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>					
Oral Tumors <u>Y</u> <u>N</u>	Leech Eggs <u>Y</u> <u>N</u>							
Visible Tumor Score <u>3</u>								
Dorsal Barn <u>Y</u> <u>N</u>	Vent Barn <u>Y</u> <u>N</u>							
Flipper Amput'd <u>Y</u> <u>N</u>	Carapace Damage <u>Y</u> <u>N</u>							
Fish Hook <u>Y</u> <u>N</u>	Fishing Line <u>Y</u> <u>N</u>							
Boat Impact <u>Y</u> <u>N</u>	Shark Attack <u>Y</u> <u>N</u>							
PPS <u>Y</u> <u>N</u>	Photos <u>Y</u> <u>N</u>							
TOTAL								

By MAJSA

4:30pm

32



Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____ Data _____
 Release Date 11-22-2011 Recorded By Emily Yoshida
 Species CM EI LO Sex M F U Release Site BLIND INLET
 Date 11/22/2011 Island HAWAII Study Site KAPOHO Recapture Y N
 Capture Method: Hand Hand/Snorkel Scoop Net
 Net Basking Stranding Location BLIND INLET Lat _____ Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag (LHF)	PIT (LHF)	Tag ()
<u>4709701836</u>			
<u>470846171A</u>			
PIT ()	Tag ()	PIT (RHF)	Other
Old MT	Other Tag <input type="checkbox"/> Renewed	New MT <u>32</u>	Other

Measurements (cm)	
SCL <u>70.4</u>	Lat1 <u>29.4</u>
Notch <u>70.1</u>	Lat2 <u>26.8</u>
SCW <u>56.3</u>	Lat3 <u>22.5</u>
CCL <u>76.0</u>	Plastron <u>56.0</u>
CCW <u>70.0</u>	Tail _____
Head _____	Vent _____
RFF _____	Weight (lbs) <u>120.0</u>

Comments: Injuries, Abnormalities, Mouth Contents, etc.

NAME "SCRAPPY"

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

	Tumors				Comments
	1	2	3	4	
Reye					
Leye					
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Visual Examination

Tumors	Y <u>N</u>	Leeches	Y <u>N</u>
Oral Tumors Visible	Y <u>N</u>	Leech Eggs	Y <u>N</u>
Tumor Score	<u>0</u>	Emac Code	<u>2</u>
Dorsal Barn	Y <u>N</u>	Vent Barn	Y <u>N</u>
Flipper Amput'd	Y <u>N</u>	Carapace Damage	Y <u>N</u>
Fish Hook	Y <u>N</u>	Fishing Line	Y <u>N</u>
Boat Impact	Y <u>N</u>	Shark Attack	Y <u>N</u>
PPS	Y <u>N</u>	Photos	Y <u>N</u>

WJH



Sea Turtle Tagging Form

Version 3 - Sept 2010

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Turtle ID _____

Data Recorded By Emily Yoshida

Release Date 11-23-11

Release Site Blind Inlet



Capture Information: Species CM EL LO Sex M F U Recapture Y N

Date 11-22-11 Island HAWAII Study Site KAPETO Lat _____

Capture Method Hand Hand/Snorkel Scoop Net Location Blind Inlet Lon _____

Old Tags		New Tags	
Y	N	Y	N
PIT (LHF) <u>4359317562</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>424F113561</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) _____	Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT <u>33</u>	Other _____

Measurements (cm)		Comments: Injuries, Abnormalities, Mouth Contents, etc.	
SCL <u>67.8</u>	Lat1 <u>28.3</u>	Fishing line on legs	
Notch <u>62.3</u>	Lat2 <u>28.3</u>	Short piece of fishing line IN vent pulled out, Had ate grass	
SCW <u>50.0</u>	Lat3 <u>24.4</u>	Rugose Cloaca	
CCL <u>68.5</u>	Plastron <u>52.7</u>		
CCW <u>61</u>	Tail <u>13</u>		
Head <u>—</u>	Vent <u>8</u>		
RFF <u>—</u>	Weight (lbs) <u>90</u>		

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

Visual Examination		Tumors				
		1	2	3	4	Comments
Tumors <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Leeches Y <input type="checkbox"/> N					
Oral Tumors Y <input type="checkbox"/> N	Leech Eggs Y <input type="checkbox"/> N					
Visible Tumor Score <u>1</u>	Emac Code <u>0</u>					
Dorsal Barn Flipper Amput'd Y <input type="checkbox"/> N	Vent Barn Carapace Damage Y <input type="checkbox"/> N					
Fish Hook Y <input checked="" type="checkbox"/> N	Fishing Line Y <input checked="" type="checkbox"/> N					
Boat Impact Y <input type="checkbox"/> N	Shark Attack Y <input type="checkbox"/> N					
PPS Y <input checked="" type="checkbox"/> N	Photos Y <input type="checkbox"/> N					
			<u>1</u>			

Eye Smooth & round & pink



Sea Turtle Tagging Form

Version 3 - Sept 2010

(34)



Turtle ID _____

Data Recorded By Emily Yoshida

Release Date 11/23/2011

Release Site BLIND INLET

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-22-2011 Island H₂ Study Site Kapoho Lat _____

Capture Method Net Basking Stranding Location Barfell Pond Lon _____

Old Tags		New Tags <u>Y</u> <u>N</u>	
PIT (LHF) _____	Tag (LHF) _____	PI <u>44216C1932</u>	
PIT (RHF) _____	Tag (RHF) _____	(L)	
PIT () _____	Tag () _____	PIT (RHF) <u>442028490E</u>	Other _____
Old MT _____	Other Tag _____	New MT <u>(34)</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL <u>71.31</u>	Lat1 <u>29.9</u>	<u>2</u> <u>Dried up skin growth</u> <u>LFF shoulder</u> <u>RHF 1/4 Missing + Healed</u>
Notch <u>71.1</u>	Lat2 <u>27.3</u>	
SCW <u>57.1</u>	Lat3 <u>22.2</u>	
CCL <u>76.5</u>	Plastron <u>58.5</u>	
CCW <u>70.0</u>	Tail <u>17.0</u>	
Head <u>10.9</u>	Vent <u>11.0</u>	

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

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

Visual Examination			
Tumors <u>Y</u> <u>N</u>	Leeches <u>Y</u> <u>N</u>		
Oral Tumors <u>Y</u> <u>N</u>	Leech Eggs <u>Y</u> <u>N</u>		
Tumor Score <u>0</u>	Emac Code <u>0</u>		
Dorsal Barn <u>Y</u> <u>N</u>	Vent Barn <u>Y</u> <u>N</u>		
Flipper Amput'd <u>Y</u> <u>N</u>	Carapace Damage <u>Y</u> <u>N</u>		
Fish Hook <u>Y</u> <u>N</u>	Fishing Line <u>Y</u> <u>N</u>		
Boat Impact <u>Y</u> <u>N</u>	Shark Attack <u>Y</u> <u>N</u>		
PPS <u>Y</u> <u>N</u>	Photos <u>Y</u> <u>N</u>		

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Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____

Date _____

Recorded By _____

Release Date 11-23-11

Release Site Blind Inlet

Capture Information: Species CM El LO Sex M F U Recapture Y N

Date 11-22-11 Island H₁ Study Site Kapoho Lat _____

Capture Method Hand Scoop Net Location Basell Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) <u>467B413D18</u>	Tag (LHF) _____	PIT (LHF) _____	Tag () _____
PIT (RHF) <u>47AD106444</u>	Tag (RHF) _____	PIT (RHF) _____	Other _____
PIT () _____	Tag () _____	PIT (RHF) _____	Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT <u>8</u> <u>35</u>	Other _____

Measurements (cm) _____ Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL <u>61.6</u>	Lat1 <u>27.6</u>	Rugous cloaca
Notch <u>60.8</u>	Lat2 <u>24.7</u>	
SCW <u>47.0</u>	Lat3 <u>18.9</u> <u>40.3</u>	
CCL <u>68.5</u>	Plastron _____	
CCW <u>60.0</u>	Tail <u>14.5</u>	
Head <u>—</u>	Vent <u>11.0</u>	

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

Tumors

	1	2	3	4	Comments
Reye					
Leye					
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Visual Examination

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

(17)

DAY 5

TOTAL

FP

()

5 DAY S

38 TOTAL



Sea Turtle Tagging Form

Version 3 - Sept 2010

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180



Turtle ID _____

Data Recorded By _____

Release Date 11-23-11

Release Site Blind inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-22-11 Island HI Study Site Kapohā Lat _____

Capture Method Hand Hand/Snorkel Scoop Net
 Net Basking Stranding

Location Blind inlet Lon _____

Old Tags		New Tags	
	Y		N
PIT (LHF) <u>470A101970</u>	<input type="checkbox"/>	Tag (LHF) _____	<input type="checkbox"/>
PIT (RHF) <u>470965663</u>	<input type="checkbox"/>	Tag (RHF) _____	<input type="checkbox"/>
PIT () _____	<input type="checkbox"/>	PIT (RHF) _____	Other _____
Old MT _____	<input type="checkbox"/>	New MT <u>#36</u>	Other _____
Renewed <input type="checkbox"/>			

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 539 Lat1 27.4

Notch 63.6 Lat2 24.7

SCW 520 Lat3 20.3

CCL 70.0 Plastron 64.2

CCW 63.0 Tail 15.5

Head 1 Vent 10.5

RFF 1 Weight (lbs) 91.2

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

Tumors

	1	2	3	4	Comments
R eye					
L eye	<u>1</u>				<u>anterior corner pink, smooth, small</u>
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL	<u>1</u>				

Visual Examination

Tumors Y N Leeches Y N
 Oral Tumors Y N Visible Leech Eggs Y N
 Tumor Score 1 Emac Code 2
 Dorsal Barn Vent Barn Flipper Amput'd Y N Carapace Damage Y N
 Fish Hook Y N Fishing Line Y N
 Boat Impact Y N Shark Attack Y N
 PPS Y N Photos Y N



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Sea

Form Version 3 - Sept 2010



Turtle ID _____

Data Recorded By _____

Release Date 11-23-11

Release Site Blind Inlet

Capture Information: Species CM EL LO Sex M F U Recapture Y N

Date 11-22-11 Island Hc Study Site Kapoho Lat _____

Capture Method Net Hand Net Hand/Snorkel _____ Scoop Net _____
Location BARSELL BRACED Pond Lon _____

Old Tags _____ New Tags Y N

PIT (LHF) Tag (LHF) _____
PIT (RHF) Tag (RHF) _____
PIT () Tag () _____
Old MT _____ Other Tag _____
New MT #37

442D524924
442D681534

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 71.3 Lat1 30.5
Notch 71.2 Lat2 28.0
SCW 53.3 Lat3 22.4
CCL 76.0 Plastron 58.0
CCW 67.5 Tail 18.5
Head 10.6 Vent 12.0
RFF 11.1 Weight (lbs) 118.5

NONE

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

Tumors table with columns 1, 2, 3, 4 and Comments. Rows include RFF, LFF, RHF, LHF, Tail Cloaca, Seams Scutes, TOTAL.

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

DAYS OUT (183) (38)



Sea Turtle Tagging Form

Version 3 - Sept 2010



Turtle ID _____ Data Recorded By _____

Release Date 11-23-11 Release Site Blind inlet

Capture Information: Species CM EI LO Sex M F U Recapture Y N

Date 11-22-11 Island HI Study Site Kapohā Lat _____

Capture Method Hand/ Snorkel Net Basking Stranding Location Blind inlet Lon _____

Old Tags		New Tags	
PIT (LHF)	Tag	PIT (LHF)	Tag
<u>470 B355629</u>	_____	_____	_____
<u>470973846</u>	_____	_____	_____
() _____	() _____	PIT (RHF)	Other _____
Old MT _____	Renewed <input type="checkbox"/> Tag _____	New MT <u>#38</u>	Other _____

Measurements (cm) Comments: Injuries, Abnormalities, Mouth Contents, etc.

SCL 66.7 Lat1 29.4
 Notch 66.4 Lat2 25.7
 SCW 53.3 Lat3 19.9
 CCL 72.0 Plastron 54.9
 CCW 65.0 Tail 18.0
 Head _____ Vent 11.5
 RFF _____ Weight (lbs) 105.5

None

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

Tumors					Comments
1	2	3	4		
R eye	<u>1</u>				<u>1 posterior conjunctiva</u>
L eye	<u>4</u>				<u>1 anterior 1 posterior both smooth</u>
Mouth					
Neck					
RFF					
LFF					
RHF					
LHF					
Tail Cloaca					
Seams Scutes					
TOTAL					

Visual Examination
 Tumors Y N N Leeches Y N
 Oral Tumors Y N Leech Eggs Y N
 Visible 1 Emac Code 1
 Dorsal Barn _____ Vent Barn _____
 Flipper Amput'd Y N Carapace Damage Y N
 Fish Hook Y N Fishing Line Y N
 Boat Impact Y N Shark Attack Y N
 PPS Y N Photos Y N

21. INVESTIGATION: 1. Insert a synopsis of the crime of incident. 2. Summarize details of the crime or incident. 3. Denote persons from whom statements taken and who took them. 4. Identify additional suspects and witnesses. 5. Identify additional investigators. 6. Use opposite side for continuation of report, if necessary.

Investigation

SYNOPSIS

12-30-11/1430 Hours. Benjamin KUAHIWINUI, M-28 reported an injured green sea turtle at the Barsell property in Kapoho. KUAHIWINUI is employed by BARSELL. The left front flipper of the turtle was amputated during attempts to remove monofilament line wrapped on the limb. It also had line in its mouth. I contacted G. BALAZ of NMFS for advice on how to deal with this BALAZ stated that the amputation was not a problem, and that the line in the turtle's mouth was not likely indicative of a hook. He recommended that the turtle be put back into the water. This was done. It should also be noted that Mrs. BARSELL also contacted BALAZ and was given similar instructions.

DISPOSITION

It is recommended that this case be CLOSED: Records Only, and that a copy be routed to NMFS Enforcement for their review and information.

Dept. Land & Natural Resources Div. Conservation & Resources Enforcement		STATE OF HAWAII INVESTIGATION REPORT		DOCARE	
Classification JEA: Injured Green Sea Turtle			3. ISLAND Hawaii		1. REPORT NUMBER HA 12-0206
5. COMPLAINANT (Firm Name if Business) Benjamin KUAHIWINUI			6. SEX RACE AGE		2. INVESTIGATOR A. FORD
9. ADDRESS 13-3611 Alapai St. Pahoa, HI 96778			7. D.O.B.		4. DISTRICT E. Hawaii, Puna
10. SCHOOL EMPLOYED/SCHOOL ATTENDING John BARSELL Employer			8. OCCUPATION		
11. LOCATION OF OFFENSE AND CLOSEST INTERSECTING STREET BARSELL Property, 14-4934 LAIMANA ROAD, Kapoho			12. DATE/TIME/DAY OCCURRED 12-30-11/1430/Fri		Res. Ph. 808-557-9192
14. DESCRIBE LOCATION OF OFFENSE OR TYPE OF PREMISES Oceanfront private property			13. DATE/TIME REPORTED 12-30-11/1430		15. HOW REPORTED Phone

Date: Tue, 06 Dec 2011 11:58:41 -1000 (HST)
From: Karla McDermid Smith <mcdermid@hawaii.edu>
To: George Balazs <gbalazs@honlab.nmfs.hawaii.edu>
Subject: RE: herbicide at Waiopae for mangroves? (fwd)

An official answer and correct spelling of herbicides

----- Forwarded message -----
Date: Mon, 05 Dec 2011 20:48:39 +0000
From: "MacKenzie, Richard" <rmackenzie@fs.fed.us>
To: Karla McDermid Smith <mcdermid@hawaii.edu>, "wiegner@hawaii.edu" <wiegner@hawaii.edu>
Subject: RE: herbicide at Waiopae for mangroves?

The initially injected glyphosate into the larger trees and broadcast spray with imazapyr. The second year they only used imazapyr for both because smaller doses were just as effective.

IMAZAPYR

Rich

Richard A. MacKenzie, Ph.D. Research Ecologist
Institute of Pacific Islands Forestry
Pacific Southwest Research Station
USDA Forest Service
60 Nowelo St.
Hilo, HI 96720
phone: (808) 854-2616
fax : (808) 933-8120

From: Karla McDermid Smith
[mailto:mcdermid@hawaii.edu]
Sent: Thursday, December 01, 2011 5:36 AM
To: wiegner@hawaii.edu; MacKenzie, Richard
Subject: herbicide at Waiopae for mangroves?

Dear Tracy and Rich,
Do you two happen to know what kind of herbicide was used by MalamaOPuna to eradicate the mangroves at Waiopae area in 2010? Do you you who would be able to tell me (if not you)? Tracy, did you ever see any traces of whatever it was in Ambyr or Julie's water samples on reef?
Thanks,
Karla

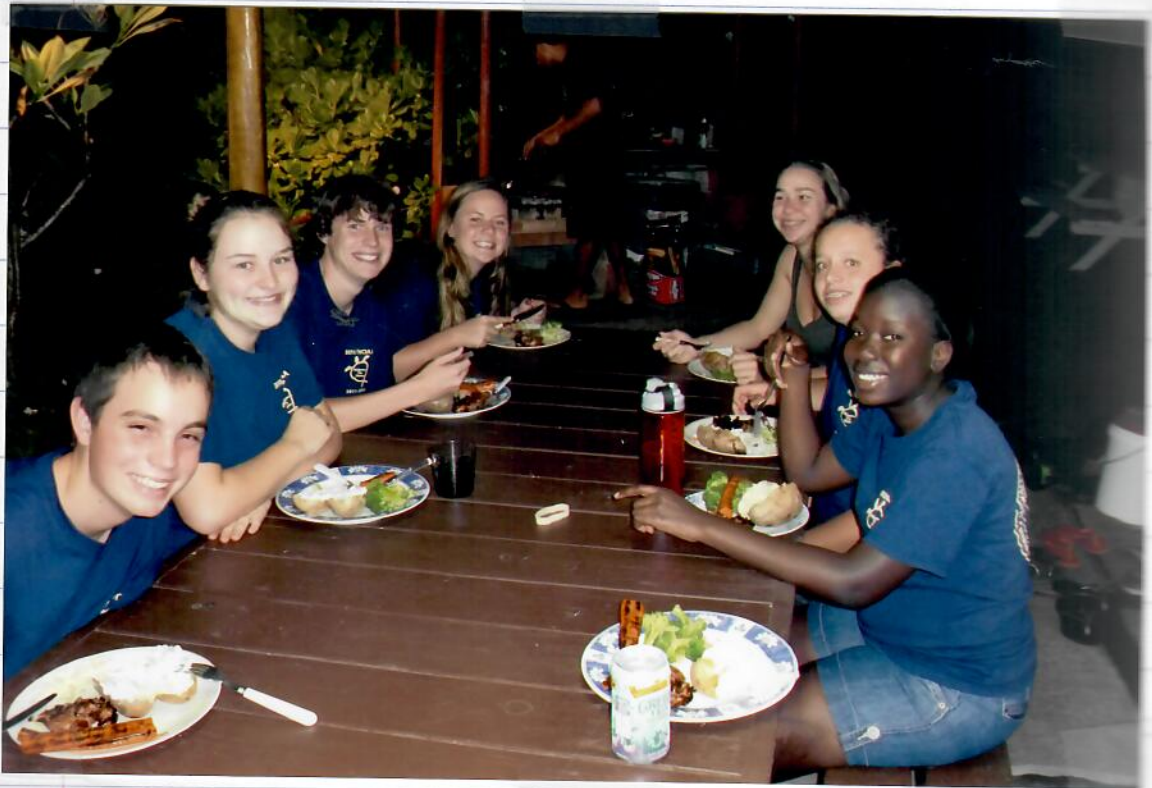
Karla J. McDermid, Ph.D.
Professor
Marine Science Department
University of Hawai'i-Hilo
200 W. Kawili St.
Hilo, HI 96720

189



191





189



291

HK.
Gamble.

Temple in Hong Kong

黃大平 Huang Da Chan.

ROUNDUP

WEED & GRASS KILLER
MATA MALEZAS Y GRAMAS

READY-TO-USE PLUS

Keep Out Of Reach Of Children

CAUTION

See back panel booklet for additional precautionary statements.

Mantener Fuera Del Alcance De Los Niños

PRECAUCION

Vea declaraciones adicionales de precaución en el reverso del panel.

Active Ingredients:

Glyphosate, isopropylamine salt	2.0%
Pelargonic acid and related fatty acids ..	2.0%
Other Ingredients	96.0%



Rainproof in 10 Minutes!

Visible Results in 6 Hours!

ORTHO

GROUND CLEAR

VEGETATION KILLER

CONCENTRATE

NO WEEDS FOR UP TO 1 YEAR

NO MALEZAS HASTA POR 1 AÑO

**For Driveways, Sidewalks,
Gravel Paths & Patios**

Active Ingredients

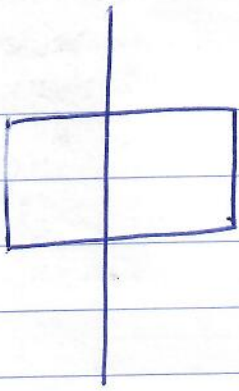
Glyphosate, isopropylamine salt.....	5.00%
Isopropylamine salt.....	0.08%
Other ingredients.....	94.92%

KEEP OUT OF REACH OF CHILDREN
WARNING SEE BACK PANEL BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS.
MANTENER FUERA DEL ALCANCE DE LOS NIÑOS
ADVERTENCIA CONSULTE EL PANEL POSTERIOR PARA CONOCER LOS AVISOS DE PRECAUCION ADICIONALES.

NET/NETO
1 GAL / 3.78 L



FPI



百 頁
上 人

一 采 夕

" WIN THE JACKPOT "

Grazing of green sea turtles (*Chelonia mydas*) on the terrestrial grass *Paspalum vaginatum* on Hawaii Island

Chelonia mydas grazing on *Paspalum vaginatum*

Chazaray-Ethan Baruela

Marine Science Department University of Hawaii at Hilo
200 W. Kawili St. Hilo HI 96720, USA

Key Words: Hawai'i, *Chelonia mydas*, *Paspalum vaginatum*, grazing

Abstract

Green turtles (*Chelonia mydas*) have been protected under Endangered Species Act since 1978. One of the problems may be reduced amounts of macroalgae and seagrass communities that are intolerant to the changes in ocean temperature. Some *C. mydas* have been observed to graze on *Paspalum vaginatum*, a shoreline terrestrial grass. The purpose of this study is to determine if green turtles (*Chelonia mydas*) are shifting their feeding preference from benthic macroalgae to the terrestrial grass *Paspalum vaginatum* during high tides.

beginning to prefer *P. vaginatum* over macroalgae during high tides. To determine this, I will be looking at the frequency of bites from *C. mydas* on *P. vaginatum* and compare it to the amount of *P. vaginatum* and macroalgae available within their grazing areas.

Project Aim and Hypothesis

To determine if Hawaiian green sea turtles are shifting their feeding preference to the terrestrial grass *Paspalum vaginatum* at high tide.

H_0 : *Paspalum vaginatum* will have a higher bite rate frequency than macroalgae at high tide.

H_{alt} : *Paspalum vaginatum* will not have a higher bite rate frequency than macroalgae at high tide.

Materials and Methods

This study will be focused on up to three study sites within Keaukaha, Hawaii. Leleiwi Beach Park (N 19° 43' 59.434" W 155° 1' 3.729"), the brackish ponds near Wai Olena Beach Park (N 19° 44' 0.546" W 155° 1' 1.5744") and Puhi Bay (N 19° 43' 55.7508" W 155° 2' 42.4752"), and one site at Kapoho, Hawaii for comparison.



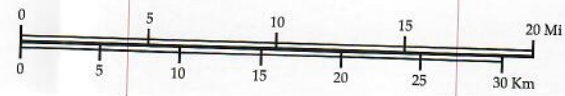
Fig 1. Map of study sites within Keaukaha, Hawaii Island.

When I have determined each area where the turtles frequent I will conduct a benthic survey to determine the amount of macroalgae and *Paspalum vaginatum*. Each benthic survey will consist of three to seven haphazardly placed transect lines perpendicular to shore. Each transect line will extend to about 5-10m from the high tide point depending on the site. Each transect line will have ten random generated points where a 0.25m² or less quadrat will be placed. The point intercept method will be used to determine the percent cover of macroalgae and *P.*

25336	ID	PCV 1	PCV 2	Avg TW	Avg R/B	PCV 1 (R/B)	PCV 1 (R/B)
1	0040	47	48	47.5	40.5	38	43
2	3C45	25	25	25	27	26	28
3	443A	28	28	28	30	29	31
4	1567	35	33	34	36.5	37	36
5	534F	36	35	35.5	37	37	37
6	2649	35	36	35.5	35.5	36	35
7	6C4C	37	35	36	36.5	35	38
8	3F29	32	32	32	34	35	33
9	783D	33	35	34	35.5	36	35
10	060B	26	27	26.5	34.5	35	34
11	4967	31	31	31	18	3	33
12	7D48	30	30	30	30.5	31	30
13	6D3A	36	36	36	34.5	35	34
14	5B52	29	29	29	30	30	30
15	4787	32	31	31.5	31	30	32
16	6308	42	41	41.5	45	47	43
17	6708	22	22	22	#DIV/0!	-	-
18	7A6D	27	27	27	#DIV/0!	-	-
19	6125	31	29	30	27	28	26
20	0939	34	34	34	29.5	30	29
21	351E	25	25	25	22	23	21
22	344B	28	27	27.5	28	28	28



- Point of Interest
- State Park
- Heritage Site
- ▲ Lifeguard



USEFUL INFORMATION

CONVERSION TABLE

METERS	YARDS	INCHES
1.000	1.093	39.37
0.914	1.000	36.00

CENTIMETERS	INCHES	FEET
1.00	0.394	0.0328
2.54	1.000	0.0833
30.48	12.000	1.0000

KILOMETERS	MILES
1.000	0.621
1.609	1.000

GRAMS	OUNCES	POUNDS
1.00	0.035	0.0020
28.35	1.000	0.0625
453.59	16.000	1.0000
1,000.00	35.274	2.2050

KILOGRAMS	OUNCES	POUNDS
1.000	35.274	2.2050
0.028	1.000	0.0625
0.454	16.000	1.0000

LITERS	PINTS	QUARTS	GAL.
1.000	2.113	1.057	0.264
0.473	1.000	0.500	0.125
0.946	2.000	1.000	0.250
3.785	8.000	4.000	1.000

LENGTH

1 meter (m)	=	100 cm	=	1,000 mm
1 millimeter (mm)	=		=	0.001 m
1 centimeter (cm)	=		=	0.01 m
1 decimeter (dm)	=		=	0.1 m
1 decameter (dkm)	=		=	10 m
1 hectometer (hm)	=		=	100 m
1 kilometer (km)	=		=	1,000 m

CAPACITY

1 liter (l)	=	100 cl	=	1,000 ml
1 milliliter (ml)	=		=	0.001 l
1 centiliter (cl)	=		=	0.01 l
1 deciliter (dl)	=		=	0.1 l
1 decaliter (dkl)	=		=	10 l
1 hectoliter (hl)	=		=	100 l
1 kiloliter (kl)	=		=	1,000 l

WEIGHT

1 gram (g)	=	100 cg	=	1,000 mg
1 milligram (mg)	=		=	0.001 g
1 centigram (cg)	=		=	0.01 g
1 decigram (dg)	=		=	0.1 g
1 decagram (dkg)	=		=	10 g
1 hectogram (hg)	=		=	100 g
1 kilogram (kg)	=		=	1,000 g

Table of Time Measure

60 seconds	=	1 minute
60 minutes	=	1 hour
24 hours	=	1 day
7 days	=	1 week
30 days	=	1 calendar month
12 months	=	1 year
365 days	=	1 common year
366 days	=	1 leap year
100 years	=	1 century

Table of Dry Measure

2 pints (pt.)	=	1 quart (qt.)
8 quarts	=	1 peck (pk.)
4 pecks	=	1 bushel (bu.)
1 cord	=	128 cu. ft.

Table of Liquid Measure

4 gills (gl.)	=	1 pint (pt.)
2 pints	=	1 quart (qt.)
4 quarts	=	1 gallon (gal.)
31-1/2 gallons	=	1 barrel (bbl.)
2 barrels	=	1 hogshead (hhd.)

Table of Paper Measure

25 sheets	=	1 quire
20 quires	=	1 ream
10 reams	=	1 bale

Table of Linear Measure

12 inches	=	1 foot
3 feet	=	1 yard
5-1/2 yards	=	1 rod
40 rods	=	1 furlong
8 furlongs (5280 ft.)	=	1 mile

Miscellaneous Measures

12 units	=	1 dozen
12 doz.	=	1 gross
12 gr.	=	1 great gross
20 units	=	1 score
1 hand	=	4 inches
1 fathom	=	6 feet
1 knot	=	6076 feet
3 knots	=	1 league
1 bu. potatoes	=	60 lbs.
1 barrel flour	=	196 lbs.
1 cu. ft. of water	=	7.48 liquid gals. and weighs 62.425 lbs.
Diameter of circle x 3.1416 = circumference		
Atmospheric pressure is 14.7 lbs. per sq. in. at sea level		
13-1/2 cu. ft. of air weighs 1 lb.		

Table of Cubic Measure

1728 cubic inches	=	1 cubic foot
27 cubic feet	=	1 cubic yard
128 cubic feet	=	1 cord of wood
24-3/4 cubic feet	=	1 perch of stone
Note: A cord of wood is a pile 8 feet long, 4 feet wide, and 4 feet high.		
A perch of stone or brick is 16-1/2 feet long, 1-1/2 feet wide, and 1 foot high.		

Table of Avoirdupois Weight

16 drams	=	1 ounce (oz.)
16 ounces	=	1 pound (lb.)
100 pounds	=	1 hundred-weight (cwt.)
2000 pounds	=	1 ton (T.)
2240 pounds	=	1 long ton (L.T.)

Table of Troy Weight

24 grains (gr.)	=	1 penny-weight (dwt)
20 penny-weights	=	1 ounce (oz.)
12 ounces	=	1 pound (lb.)

Table of Circular Measure

60 seconds	=	1 minute
60 minutes	=	1 degree
360 degrees	=	1 circumference
A degree of the earth's surface or a meridian = 69.16 miles at the equator.		

Table of Apothecaries' Weight

20 grains (gr.)	=	1 scruple
3 scruples	=	1 dram
8 drams	=	1 ounce
12 ounces	=	1 pound (lb.)

Table of Surface Measures

144 sq. in.	=	1 sq. ft.
9 sq. ft.	=	1 sq. yd.
30-1/4 sq. yds.	=	1 sq. rod
160 sq. rods	=	1 acre
640 acres	=	1 sq. mile

An acre measures 208.71 ft. on each side.

A section of land is 1 sq. mile.
A quarter section is 160 acres.
A township is 36sq. miles.

MULTIPLICATION TABLE

	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

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