

Kauila - mystical sea turtle of Punaluu
Painting by H. Kawainui Kane

HE LĀ HONU - TURTLE DAY 1995

caliber.

COMPOSITION BOOK

PUNALU'U

2-12-2020 = 75

BALAZS

SEA GODDESS MATSU
TURTLE SACRIFICE
PENG-HU ISLANDS
Photo by George H. Balazs 2 / 98

UNRULED

100 SHEETS

9 3/4 IN x 7 1/2 IN
(24.7 cm x 19 cm)

12 FEB. 2020 PUNALOU PARTICIPANTS

NAME

EMAIL

<u>NAME</u>	<u>EMAIL</u>
① Sabrina OTOOLE ^{photos sent}	sotoole@hawaii.edu
② Jordan Hemmerly	hemmerly@hawaii.edu
③ Cameron Pollack	cpollack@hawaii.edu
④ Reve Tomlin	rtomlin@hawaii.edu
⑤ Sydney Lewis	Sydney ^{lower case "L"} 17@hawaii.edu
⑥ Miranda Maassen	mmaassen@hawaii.edu
⑦ Katelyn Yockey	kyockey@hawaii.edu
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⑩ Gina Selig	ginams@hawaii.edu
⑪ KELSEY SPEARS	kspears@hawaii.edu
⑫ Kelly Munro	Kmunro3@hawaii.edu
⑬ Sarah Maloy	Maloy@hawaii.edu
⑭ KARA SMITH	SMITHK9@HAWAII.EDU
⑮ Charlene Ruiz (coal sunglasses) ^{photos sent}	cruiz4@hawaii.edu
⑯ Matt Mittermayer	MattMittermayer@ Lhanyoung1120@gmail.com
⑰ Edward Park	hcknotts@gmail.com
⑱ Hannah Knotts	hawaii.edu

BOARDING

HA

Name: BALAZS/GEORGE
 Flight: HA 381 0
 Departure: 6:14P Hilo/ITO
 Arrival: 7:09P Honolulu/HNL
 Ticket #: HA115219970
 BOARDING START: 5:49P BOARDING CLOSES: 5:59P
 Zone: 4 GATE: 7 SEAT: 11D

12FE620
 1732178037316
 ZPUHDX
 Bag Count / Bag Tag #

Name: BALAZS/GEORGE
 Flight: HA 381 0
 Departure: 6:14P
 Arrival: 7:09P
 Ticket #: HA115219970



GATE: 7
 SEAT: 11D

Handwritten mark

HCC KAILA KAHALO (KAILA
 KAILAK4@HAWAII.EDU college
 application)

2020

PUNALOU PARTICIPANTS

NAME

EMAIL

- 1
- 2
- 3 C.
- 4 R
- 5 S
- 6 M.
- 7 X
- 8 D
- 9 F
- 10 G
- 11 S
- 12 M
- 13 S
- 14 K
- 15 C
- 16 M
- 17 G
- 18 H

HCC KAILA KAHALOA
 KAILAKIHI HAWAII

[Faint handwritten notes and bleed-through from the reverse side of the page, including names like 'KAILA KAHALOA' and 'KAILAKIHI HAWAII']

1

NOAA/UHH EXPEDITION #75
MOP

MTBAP LAIA FUKMI

Basking In-water

Validation Date: _____

Initials: _____

HAND SNORKEL

LA

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc

Sex (circle one): F M U

Observer Names/Initials: Sabrina OTOOLE (SO) Date (MM/DD/YY): 02/12/2020

Platform/Method: _____

Handling Start Time (24hr format): _____

Capture Location Region KAU HAWAII ISLAND
Island/Atoll: _____ Site: _____

Garmin ID (last 4 digits): KAU LAT_(lat): _____

Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG_(lon): _____

Water Depth: _____ m

Straight Carapace Length (SCL): 63.0 cm

Straight Carapace Width (SCW): 52.3 cm

Curved Carapace Length (CCL): 68.0 cm

Curved Carapace Width (CCW): 66.5 cm

Plastron Straight Length (PSL): 52.1 cm

Total Tail Length: 14.0 cm

Tail length (Plastron to Cloaca): 9.5 cm

Mass: WT 84 lbs 84 kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____

Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tubes: _____

Volume: _____ mL Preservative: Na/Hep _____ (other)

Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

LH New

RH New

P.C. in mouth

stercoradila

(Affix new RH PIT tag ID label here)

(Affix new LH PIT tag ID label here)

OLD EXISTING

PTT/Metal Flipper Tag #

Location	Status	P	I	9	9	9	9
LH	New						
RH	Old						

LH 4851594016
 RH 483071621

IB

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): MITT NBG Tag Type (circle one): Package Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
 Tag Brand (circle one): Wildlife Computers Telonics Desert Star Systems Lotek
 Model: Serial #: _____

Attachment Type (circle one): Two-part Epoxy Fiberglass (Other)

Pre-release Checklist

- Turtle ID (# of day, metal, PIT)
- Measurements recorded
- Sat tag PTT ID recorded, switched ON
- Epoxy/Paint are dry
- Check saltwater switches are clear, free from epoxy, paint, tape removed
- Location of capture/release recorded
- Photos

Release Time (24hr format): _____
 Area/Site: _____ Garmin ID (last 4 digits): _____
 GPS Waypoint #: _____
 LAT (lat): _____
 LONG (lon): _____

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

NOTE LH likely metal tag loss - piece missing

2210

WINDY RAINY W/CH EXHAUSTION #12

IB

NOAA/UHH MOP EXPEDITION #75

2

MTBAP UAHIA FUKIMI

Basking

In-water

Validation Date: _____ Initials: _____

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc

Sex (circle one): F M U

Observer Names/Initials: Sabrina OTOOLE (SO) Date (MM/DD/YY): 02/12/2020

2A

Hand SNORKEL

Platform/Method: _____

Handling Start Time (24hr format): _____

Capture Location _____

Region: Papahānaumokuākea Island/Atoll: HAWAII Area: _____ Site: _____

Garmin ID (last 4 digits): KAL LAT_(dd): _____ °C Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG_(dd): _____ m Water Depth: _____ m

Straight Carapace Length (SCL): 66.8 cm
 Straight Carapace Width (SCW): 53.2 cm
 Curved Carapace Length (CCL): 72.0 cm
 Curved Carapace Width (CCW): 65.5 cm

Plastron Straight Length (PSL): 52.9 cm
 Total Tail Length: 15.0 cm
 Tail length (Plastron to Cloaca): 10.0 cm
 Mass: 82.7 1b 16 g

SAMPLES COLLECTED? None Skin Scute Tumor Blood
 FreezerWorks ID #: _____ Initials: _____
 Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____
 # of Scute Vials _____ Scute Location _____
 # of Tumor Vials _____ Tumor Location _____
 Blood Collection Time: _____ # Tubes: _____
 Volume: _____ mL Preservative: Na/Hep _____ (other)
 Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

LH New

RH New

(Affix new LH PIT tag ID label here)

(Affix new RH PIT tag ID label here)

NOAA UHH MOP EXPEDITION #75

2B

Location		Status		PIT/Metal Flipper Tag #									
LH	RH	New	Old	1	2	3	4	5	6	7	8	9	9
X													
	X												

LH 422D52140E

RH 4236002B6D

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): MITT NBG Tag Type (circle one): Package Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
Tag Brand (circle one): Wildlife Computers Telonics Desert Star Systems Lotek

Model: Serial #: Attachment Type (circle one): Two-part Epoxy Fiberglass (Other)

Pre-release Checklist

- Turtle ID (# of day, metal, PIT)
- Measurements recorded
- Sat tag PTT ID recorded, switched ON
- Epoxy/Paint are dry
- Check saltwater switches are clear, free from epoxy, paint, tape removed
- Location of capture/release recorded
- Photos

Release Time (24hr format): Area/Site: Garmin ID (last 4 digits):
GPS Waypoint #: LAT (dd): LONG (dd):

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

Notes Old Fiber glass central scute (2nd)

NOVA 1944 WVA, EXTENSION #

NOAA OHH MOP EXPEDITION # 75

(13)

MTBAP LAIA FUKIMI

Basking In-water Validation Date: _____ Initials: _____

HAND SNORKEL

(3A)

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc

Sex (circle one): F M U

Observer Names/Initials: SABRINA STOOLE (SO) Date (MM/DD/YY): 02/12/2020

Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region: Papua Island/Atoll: HAWAII Area: _____

Garmin ID (last 4 digits): KAL LAT (dd): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG (dd): _____ Water Depth: _____ m

Straight Carapace Length (SCL): 46.5 cm

Straight Carapace Width (SCW): 36.0 cm

Curved Carapace Length (CCL): 50.0 cm

Curved Carapace Width (CCW): 44.0 cm

Plastron Straight Length (PSL): _____ cm

Total Tail Length: _____ cm

Tail length (Plastron to Cloaca): _____ cm

Mass: 22.0 kg 50 lb

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____

Place each vial with **sample type** and **attach left** (if applicable) **Without a**
 sticker, label, sample type, date, flipper tag #, location.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tumor _____ (other)

Volume: _____ mL Preservative: NaCl _____

Tube Type/Size: Glass Plastic _____

Flipper Tags (2 Types)

Decimal: 982.000402165733

Hexadecimal: 3D6.0017F88FE5

LH New

(Affix new RH PIT tag to label here)

982000402165733 LH

only one PIT TAG INSERTED - LH

New

METAL TAGS

Location	Status	PTT / Metal Flipper Tag #								
LH	New	--	--	--	--	P	I	9	9	9
RH	Old	0	3	1	2	3	4	5	6	7 8

3B

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): **MITT** NBG Tag Type (circle one): **Package** Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
 Tag Brand (circle one): **Wildlife Computers** Telonics Desert Star Systems Lotek
 Model: _____ Serial #: _____

Attachment Type (circle one): Two-part Epoxy Fiberglass _____ (Other)

- Pre-release Checklist**
- ____ Turtle ID (# of day, metal, PIT)
 - ____ Measurements recorded
 - ____ Sat tag PTT ID recorded, switched ON
 - ____ Epoxy/Paint are dry
 - ____ Check saltwater switches are clear, free from epoxy, paint, tape removed
 - ____ Location of capture/release recorded
 - ____ Photos

Release Time (24hr format): _____
 Area/Site: _____ Garmin ID (last 4 digits): _____
 GPS Waypoint #: _____
 LAT (lat): _____
 LONG (lon): _____

NOTES

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

* 2 kinds fishing line wrapped around **NONO FILAMENT AND KEVLAR**
 both front flippers - BASE OF Right Front FLIPPER Deeply cut. ALL LINE Softer REMOVER!
 * seen grazing just before capture

NORA UHTMOP EXPEDITION #75

4

MTBAP UAIA FUKIMI

Basking

In-water

Validation Date: _____

Initials: _____

TURTLE # of Day / MOTOTOOL #: _____

HAND SNORKEL

4A

Species (circle one): Cm Ei Lo Cc Dc

Sex (circle one): F M U

Observer Names/Initials: Sabrina OTOOK (SO) Date (MM/DD/YY): 02/12/2020

Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region/Atoll: Pinnacles Hawaii Area: _____ Site: _____

Garmin ID (last 4 digits): KAV LAT_(last): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG_(last): _____ Water Depth: _____ m

Straight Carapace Length (SCL): 73.2 cm

Straight Carapace Width (SCW): 55.4 cm

Curved Carapace Length (CCL): 78.0 cm

Curved Carapace Width (CCW): 69.5 cm

Plastron Straight Length (PSL): 57.6 cm

Total Tail Length: 36.5 cm

Tail length (Plastron to Cloaca): 27.0 cm

Mass: 104.0 lbs 105 kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____

Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tubes: _____

Volume: _____ mL Preservative: Na/Hep _____ (other)

Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

LH new

RH new

TAG consistency - LH

METAL TAGS:

LFL - 8923

RFL - 8922

RH - V523

LH - K583

4B

Location	Status	PTT/Metal Flipper Tag #									
LH	New	0	1	2	3	4	5	6	7	8	9
X				4	5	2	9	5	5	7	9
X				4	1	3	2	1	4	7	5
RH	Old	0	3	1	2	4	5	6	7	8	9

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): MITT NBG Tag Type (circle one): Package Satellite (GPS/Arcos) Archival (TDR) Acoustic (Sonic/VHF)

Tag Brand (circle one): Wildlife Computers Telonics Desert Star Systems Lotek

Model: _____ Serial #: _____

Attachment Type (circle one): Two-part Epoxy Fiberglass _____ (Other)

Pre-release Checklist

- ____ Turtle ID (# of day, metal, PIT)
- ____ Measurements recorded
- ____ Sat tag PTT ID recorded, switched ON
- ____ Epoxy/Paint are dry
- ____ Check saltwater switches are clear, free from epoxy, paint, tape removed
- ____ Location of capture/release recorded
- ____ Photos

Release Time (24hr format): _____

Area/Site: _____ Garmin ID (last 4 digits): _____

GPS Waypoint #: _____

LAT (lat): _____

LONG (lon): _____

Important Data: If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

NOAA 421/08 EX/15B/1107-4.10

MTBAP UAIA FUKIMI

Basking

(In-water)

Validation Date: _____ Initials: _____

NORAUHHMOP EXPEDITION #75

(5)

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): (Cm) Ei Lo Cc Dc

HAND SNOVKEL

Sex (circle one): F M (U)

Observer Names/Initials: Sabrina OTOOIE (SO) Date (MM/DD/YY): 02/12/2020

(5A)

Platform/Method: _____

Handling Start Time (24hr format): _____

Capture Location Region: PUNAHOU Island/Atoll: HAWAII Area: _____ Site: _____

Garmin ID (last 4 digits): KPAD LAT_(dd): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG_(dd): _____ Water Depth: _____ m

Straight Carapace Length (SCL): 40.1 cm
 Straight Carapace Width (SCW): 32.2 cm
 Curved Carapace Length (CCL): 42.0 cm
 Curved Carapace Width (CCW): 38.5 cm

Plastron Straight Length (PSL): 4.4 cm
 Total Tail Length: 17.5 cm
 Tail length (Plastron to Cloaca): 17.5 cm
 Mass: 17.5 lbs 165 kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____
Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____
 # of Scute Vials _____ Scute Location _____
 # of Tumor Vials _____ Tumor Location _____
 Blood Collection Time: _____ # Tubes: _____
 Volume: _____ mL Preservative: Na/Hep _____ (other)
 Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

NEW 982-000402165903 LH New

NEW 982-00040216385 RH New

decimal: 982.000402165903
 exact decimal: 3D6.0017F8908F

decimal: 982.00040216385
 exact decimal: 3D6.0017F89271

(4B)

5B

Location	Status	PIT/Metal Flipper Tag #																		
LH	New																			
RH	Old	0	3	1	2	3	4	5	6	7	8									

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): **MITT** NBG Tag Type (circle one): **Package** Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)

Tag Brand (circle one): **Wildlife Computers** Telonics Desert Star Systems Lotek

Model: _____ Serial #: _____

Attachment Type (circle one): Two-part Epoxy Fiberglass _____ (Other) _____

Pre-release Checklist

____ Turtle ID (# of day, metal, PIT)

____ Measurements recorded

____ Sat tag PTT ID recorded, switched ON

____ Epoxy/Paint are dry

____ Check saltwater switches are clear, free from epoxy, paint, tape removed

____ Location of capture/release recorded

____ Photos _____

Release Time (24hr format): _____

Area/Site: _____ Garmin ID (last 4 digits): _____

GPS Waypoint #: _____

LAT (dd): _____

LONG (dd): _____

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

20

NOAA CHAYAS EXHIBITION #12

6

NOAFA UHHMOP EXPEDITION #75

MTBAP UAIA FUKIM

Basking In-water

Validation Date: _____

Initials: _____

6A

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc

HAND SNORKEL

Sex (circle one): F M U

Observer Names/Initials: Sabrina O'Toole (SO) Date (MM/DD/YY): 02/12/2020

Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region: PUNALUU Island/Atoll: HAWAII Area: _____ Site: _____

Garmin ID (last 4 digits): KAV LAT (dd): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG (dd): _____ Water Depth: _____ m

Straight Carapace Length (SCL): 62.9 cm

Straight Carapace Width (SCW): 51.4 cm

Curved Carapace Length (CCL): 67.5 cm

Curved Carapace Width (CCW): 65.0 cm

Plastron Straight Length (PSL): 52.3 cm

Total Tail Length: 15.5 cm

Tail length (Plastron to Cloaca): 10.5 cm

Mass: 80.0 165 kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____
Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tubes: _____

Volume: _____ mL Preservative: Na/Hep _____ (other)

Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

_____ LH PIT tag ID label here)

LH New

_____ (Affix new RH PIT tag ID label here)

RH New

338

6B

Location	Status	PIT/Metal Flipper Tag #																		
LH	New																			
X		LH	4	7	0	5	1	0	1	8	1	0	1	8	1	0	1	8	1	0
X		RH	4	7	0	7	1	5	5	1	0	1	8	1	0	1	8	1	0	1
RH	Old																			

Tag Location: Right: Front Flipper (RF), Left: Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): **MITT** **NBG** Tag Type (circle one): **Package** **Satellite** (GPS/Argos) **Archival** (TDR) **Acoustic** (Sonic/VHF)

Tag Brand (circle one): **Wildlife Computers** **Telonics** **Desert Star Systems** **Lotek**

Model: _____ Serial #: _____

Attachment Type (circle one): **Two-part Epoxy** **Fiberglass** _____ (Other)

Pre-release Checklist

- ____ Turtle ID (# of day, metal, PIT)
- ____ Measurements recorded
- ____ Sat tag PTT ID recorded, switched ON
- ____ Epoxy/Paint are dry
- ____ Check saltwater switches are clear, free from epoxy, paint, tape removed
- ____ Location of capture/release recorded
- ____ Photos

Release Time (24hr format): _____

Area/Site: _____ Garmin ID (last 4 digits): _____

GPS Waypoint #: _____

LAT (lat): _____

LONG (lon): _____

Important Data: if found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

Injured posterior CARAPACE BUT HEALED

NOVA OAH Web Exhibition #1212

7

NOAA NORTHERN EXPEDITION # 75

MTBAP DATA FORM

Event ID (database): _____ Basking In-water Initials: _____ Validation Date: _____

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc

HAND SNORKEL

Sex (circle one): F M U

Observer Names/Initials: Sabrina OTOOSE (SO) Date (MM/DD/YY): 02/12/2020

7A

Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region: Punaluu Island/Atoll: FAWARI Area: _____ Site: _____

Garmin ID (last 4 digits): RAU LAT (dd): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG (dd): _____ Water Depth: _____ m

Straight Carapace Length (SCL): 63.9 cm

Straight Carapace Width (SCW): 48.2 cm

Curved Carapace Length (CCL): 70.5 cm

Curved Carapace Width (CCW): 61.0 cm

Plastron Straight Length (PSL): 50.0 cm

Total Tail Length: 14.0 cm

Tail length (Plastron to Cloaca): 9.5 cm

Mass: 95.0 lbs 43 kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____

Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tubes: _____

Volume: _____ mL Preservative: Na/Hep _____ (other)

Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

_____ LH New _____ RH New

(Affix new LH PIT tag ID (label here))

(Affix new RH PIT tag ID (label here))

98

17B

LH	New	---	---	P	1	9	9	9	9		
X				982000364999205							
Z				982000364919101							
RH	Old	0	3	1	2	3	4	5	6	7	8

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (cirice one): MITT NBG Tag Type (cirice one): Package Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
Tag Brand (cirice one): Wildlife Computers Telonics Desert Star Systems Lotek

Model: _____ Serial #: _____
Attachment Type (cirice one): Two-part Epoxy Fiberglass _____ (Other)

Pre-release Checklist

- Turtle ID (# of day, metal, PIT)
- Measurements recorded
- Sat tag PTT ID recorded, switched ON
- Epoxy/Paint are dry
- Check saltwater switches are clear, free from epoxy, paint, tape removed
- Location of capture/release recorded
- Photos

Release Time (24hr format): _____
Area/Site: _____ Garmin ID (last 4 digits): _____
GPS Waypoint #: _____
LAT_(dd): _____
LONG_(dd): _____

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

old injury on right side - indentation
right 4/11/15 by [unclear] 412.3

MTBAP DATA FORM

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc

Observer Names/Initials: SABRINA OTOOLE (SO)

Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region: PUNAKU Island/Atoll: HAWAII Area: _____ Site: _____

Garmin ID (last 4 digits): KRV LAT^(ddd): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG^(ddd): _____ Water Depth: _____ m

Straight Carapace Length (SCL): 66.3 cm

Straight Carapace Width (SCW): 53.9 cm

Curved Carapace Length (CCL): 71.0 cm

Curved Carapace Width (CCW): 66.0 cm

Plastron Straight Length (PSL): 53.5 cm

Total Tail Length: 17.0 cm

Tail length (Plastron to Cloaca): 13.5 cm

Mass: 81.3 1120 165 kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____
Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tubes: _____

Volume: _____ mL Preservative: Na/Hep _____ (other)

Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

_____ LH New _____ RH New

(Affix new LH PIT tag ID label here)

(Affix new RH PIT tag ID label here)

NORRA UHH MOP EXPEDITION #75

Basking In-water

Event ID (database): _____

Validation Date: _____

Initials: SA

HAND SNORKEL

Sex (circle one): F M U

Date (MM/DD/YY): 02/12/2020

89

METAL TAGS

RH - K592 LH - R92

RFL - R91

LFL - R90

8B

Location	Status	PIT/Metal Flipper Tag #												
					P	1	9	9	9	9				
LH	New	--	--	--										
X														
X														
RH	Old	0	3	1	2	3	4	5	6	7	8			

LA 407A4A237C

RH 423B16304F

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (cirice one): MITT NBG Tag Type (cirice one): Package Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
 Tag Brand (cirice one): Wildlife Computers Telonics Desert Star Systems Lotek
 Model: Serial #: _____

Attachment Type (cirice one): Two-part Epoxy Fiberglass (Other) _____

Pre-release Checklist

Turtle ID (# of day, metal, PIT)

Measurements recorded

Sat tag PIT ID recorded, switched ON

Epoxy/Paint are dry

Check saltwater switches are clear, free from epoxy, paint, tape removed

Location of capture/release recorded

Photos

Release Time (24hr format): _____

Area/Site: _____ Garmin ID (last 4 digits): _____

GPS Waypoint #: _____

LAT_(dd): _____

LONG_(dd): _____

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

PC in mouth, MATURING MALE BASED

NOVA DIFF 8B TAIL lengthening

NOAA UH H MOP EXPEDITION #75

NOAA UH H MOP EXPEDITION #75

MTBAP UAIHA FUKIMI

Basking In-water Validation Date: _____ Initials: 9A

TURTLE # of Day / MOTOTOOL #: _____
Species (circle one): Cm Ei Lo Cc Dc Sex (circle one): F M U

Observer Names/Initials: Sabrina o'Toole (SO) Date (MM/DD/YY): 02/12/2020
Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region: Kauai Island/Atoll: HAWAII Area: _____ Site: _____
Garmin ID (last 4 digits): KAVU LAT^{tail}: _____ Water Temp: _____ °C Air Temp: _____ °C
GPS Waypoint #: _____ LONG^{tail}: _____ Water Depth: _____ m

SAMPLES COLLECTED? None Skin Scute Tumor Blood
 FreezerWorks ID #: _____ Initials: _____
 Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____
 # of Scute Vials _____ Scute Location _____
 # of Tumor Vials _____ Tumor Location _____
 Blood Collection Time: _____ # Tubes: _____
 Volume: _____ mL Preservative: Na/Hep _____ (other)
 Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

LH New RH New
(Affix new LH PIT tag ID label here) (Affix new RH PIT tag ID label here)

END

~~END~~
 J-18
 ROAD

METAL TAGS
 RH-J415 LH-H193 LFL-H192 RFL-none

9B

Location	Status	PTT/Metal Flipper Tag #								
LH	New	--	--	P	1	9	9	9	9	9
X		LH 4136330F15								
X		RH 452A5260ED								
RH	Old	0	3	1	2	3	4	5	6	7
										8

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hand (RH), Left Hand (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (twice one): MITT NBG Tag Type (twice one): Package Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
 Tag Brand (twice one): Wildlife Computers Telonics Desert Star Systems Lotek
 Model: _____ Serial #: _____
 Attachment Type (twice one): Two-part Epoxy Fiberglass _____ (Other)

Pre-release Checklist

- ____ Turtle ID (# of day, metal, PIT)
- ____ Measurements recorded
- ____ Sat tag PTT ID recorded, switched ON
- ____ Epoxy/Paint are dry
- ____ Check saltwater switches are clear, free from epoxy, paint, tape removed
- ____ Location of capture/release recorded
- ____ Photos

Release Time (24hr format): _____
 Area/Site: _____ Garmin ID (last 4 digits): _____
 GPS Waypoint #: _____
 LAT (lat): _____
 LONG (lon): _____

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!

9

10

NOVA YAHMOG EXPEDITION #75

MTBAP DATA FORM

Basking In-water Validation Date: Initials:

TURTLE # of Day / MOTOTOOL #: _____

Species (circle one): Cm Ei Lo Cc Dc Sex (circle one): F M U

Observer Names/Initials: _____ Date (MM/DD/YY): _____

Platform/Method: _____ Handling Start Time (24hr format): _____

Capture Location Region: _____ Island/Atoll: _____ Area: _____ Site: _____

Garmin ID (last 4 digits): _____ LAT_(dd): _____ Water Temp: _____ °C Air Temp: _____ °C

GPS Waypoint #: _____ LONG_(dd): _____ Water Depth: _____ m

Straight Carapace Length (SCL): _____ cm

Straight Carapace Width (SCW): _____ cm

Curved Carapace Length (CCL): _____ cm

Curved Carapace Width (CCW): _____ cm

Plastron Straight Length (PSL): _____ cm

Total Tail Length: _____ cm

Tail length (Plastron to Cloaca): _____ cm

Mass: _____ kg

SAMPLES COLLECTED? None Skin Scute Tumor Blood

FreezerWorks ID #: _____ Initials: _____

Label each vial with **sample type** and attach **left PIT tag ID sticker**. Without a sticker, label sample type, date, flipper tag #, location, and species.

of Skin Vials _____ Skin Location _____

of Scute Vials _____ Scute Location _____

of Tumor Vials _____ Tumor Location _____

Blood Collection Time: _____ # Tubes: _____

Volume: _____ mL Preservative: Na/Hep _____ (other)

Tube Type/Size: Glass Plastic 2 mL 6 mL 10 mL

Flipper Tags (2 Types)

_____ LH New

_____ RH New

(Affix new LH PIT tag ID label here)

(Affix new RH PIT tag ID label here)

Location	Status	PTT/Metal Flipper Tag #									
LH	New	--	--	--	--	P	I	9	9	9	9
RH	Old	0	3	1	2	3	4	5	6	7	8

Tag Location: Right Front Flipper (RF), Left Front Flipper (LF), Right Hind (RH), Left Hind (LH) Tag Status: newly applied tag (New), already present tag (Old)

Biotelemetry Tag

Project (circle one): **MITT** NBG Tag Type (circle one): **Package** Satellite (GPS/Argos) Archival (TDR) Acoustic (Sonic/VHF)
 Tag Brand (circle one): **Wildlife Computers** Telonics Desert Star Systems Lotek
 Model: _____ Serial #: _____

Attachment Type (circle one): Two-part Epoxy Fiberglass _____ (Other) _____

Pre-release Checklist

- _____ Turtle ID (# of day, metal, PIT)
- _____ Measurements recorded
- _____ Sat tag PTT ID recorded, switched ON
- _____ Epoxy/Paint are dry
- _____ Check saltwater switches are clear, free from epoxy, paint, tape removed
- _____ Location of capture/release recorded
- _____ Photos

Release Time (24hr format): _____
 Area/Site: _____ Garmin ID (last 4 digits): _____
 GPS Waypoint #: _____
 LAT (rad): _____
 LONG (rad): _____

Important Data. If found, please return to Todd.Jones@noaa.gov or 808-725-5713. Thank You!



KELSEY COLLECTION 1920s-1950s
(REV. NAALIMU B. 1835, PAPAALOA, HAWAII)

Turtle Fishing (Lawai'a Honu)

By Rev. Henry B. Naalimu, Hilo.
BORN 1835

The net had openings (hakahaka), with the meshes (ka waka) perhaps a foot wide (hookahi kapehu (foot) paka (perhaps), and forty (kanaka) 40' fathoms (-anana) the length (ka loi). There were two canoes (iluwa waa). Uite (hookui) the heads (na po) of the nets, two nets (iluwa ipena) ma kahi (about) eighty fathoms (kanawalu-anana) long, perhaps a hundred fathoms (hookahi (one) hokela'anana). There was a watchman (he kile) above on the cliff (-iluwa - a ka pale), and it was his duty (-a nana) to separate (kahikahi) and move

apart (hoonee -ae) the canoes (na waa). At the
time (-i kē mānawa) that the fish watchman (ke
kilo -ia) saw (-na ike 'oia) the turtle (-i ka honu)
he signaled with his hand (pe'ahi 'oia) to the two
canoes (-i na waa 'iua) to move (e mee). He
opened up his arms (wehe 'oia -i kaona, lina) at
the time that he saw (-i ka mānawa -i 'ike -ai)
that the turtles were right where the canoes
~~would go~~ (-na kepono na honu -i kahi -ona wa
i hele, -ai). When he opened his arms (-i ka
wehe 'one -o kaona lina) they let down the net
(hookua lakou -i kō 'upeena). The canoe men
would beat the sea with branches (me ka laau -s
hoopāhū -ai -iloko -o ke ka'i (laau, timber, wood
tree). Then the turtle (s) would go to where the net was

Alaila holo kō honu i kahi - o kō ipenai.
They would leave the net (haalele ka ipenai) -
leave it with a float (mou, buoy) (me kō mo -
e haalele ai), and with the rope of the upper
sledge holding the net (-a me ke kōula - o kō
'aliki - e paa - ana - i kō ipenai) The line (word looks
like Fina) and the heads of the turtles tangled.
There was a piece of wiliwili wood (he laau wiliwili
(a branch?), a piece of kam wood (he laau kam);
and an 'ulivilii (a gourd that was planted (he
- ipu - i kam ia), and grew (-a ulu mai), and
dried (-a mālo), and was held fast in a cala-
bask net (-a hoopaa ia - i ke kōkō) and float-
ed in the sea (-a laua - iloko - o ke kai) - the
'ulivilii. The canoe went toward the upland

(hōlo ʻā wa māka) to that and this' outer
corner of the float (ma kela kela kiki-o kā moou)
and beat the sea (-a hoopāhū - i ke kai), and
the turtle(s) went off (-a hole kā honu). And the
net was gotten and pulled in (a kū kā 'upeena
-a hūki); the meshes of the net were perhaps
a malewa (wide enough to put the hand through)
The fishing watchman saw the turtles floating
on the surface of the sea (Ike ke kila - i ka honu
e lana - ana - iluna - o kā 'ili kai). There are
turtles in Ōā-mākua and Puna off the coast. They
used to use a spear (he o) from the haoles, not the
ancient Hawaiian spear. There was only the net in
ancient times (kā 'upeena wale ne ke kā wa kahi)
I have not seen the small net (hōlo - au - i Ike - i ka
upeena kiki). Ma 170 p. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

3/4/02

George,

I was asked by Charles Kaaia'i of West Pac if I had any information on the use of turtles by native Hawaiians. I sent him a copy of this interview that Theodore Kelsey did with Rev. Nalimu. I pointed out that it doesn't mention what turtles were used for, only how they were caught. I thought you might like a copy for your files. Aloha,
John

BEACHES OF HAWAII

Book Series

by

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Published by the University of Hawaii Press

E ho mai ka 'ike mai luna mai e
O na mea huna no'eau o na mele e
E ho mai, e ho mai, e ho mai e

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E ho mai, e ho mai, e ho mai e

New push for resort in

The Honolulu Advertiser 12/23/05 Friday CI

Project includes full-service hotel, up to 2,000 homes



The Honolulu Advertiser

BY KEVIN DAYTON

Advertiser Big Island Bureau

HILO, Hawaii — A partnership of Mainland and Hawaii investors plans to restart the long-stalled Sea Mountain project at Punalu'u to develop a hotel and up to 2,000 homes on the Ka'u site over 10 years.

The project on 433 acres would also feature a cultural and marine center, low-rise single-family homes and a "village center" with light commercial uses.

The development between the

tiny towns of Nā'ālehu and Pāhala would include as many as 1,500 to 2,000 new single-family homes, apartments or condominiums, not including any affordable units the developer is required to provide, according to a notice filed with the state.

A project that large would become an imposing new hub of activity in a part of Ka'u that has had little large-scale outside investment since the last Big Island sugar plantation closed there in 1996.

Various proposals for the site have come and gone over the years, including a space port and a state prison, which ran into resistance from local residents. In

addition, a proposed ethanol production plant never materialized. That left many Ka'u residents with hard choices: They could commute for hours to reach jobs in employment centers in Hilo or Kona, or they could move out.

Bob Jacobson, the county councilman who represents the area, said some people will resist the project because they want to protect the environment and keep rural Ka'u as it is. Others will want the jobs the project would bring, he said.

How strong the opposition will be "depends on what they do," Jacobson said of the developers. Jacobson said he hopes there will be an opportunity for the county

Ka'ū

to acquire the land under Punalu'u Beach Park, which the county now rents from the Sea Mountain owners.

"I think that's our next priority in term of acquisition of open space," he said.

The original Sea Mountain development started by C. Brewer & Co. in 1972 called for two hotels, but neither was built. The unfinished development was sold to Japanese investors for \$35 million in 1989, with the new owners planning one 100-room hotel, along with upgrades to the golf course.

Those plans also failed, and the investors sold the property in 1994 for \$3 million to SM Invest-

SEE PUNALU'U, C3

Punalu'u

CONTINUED FROM C1

ment Partners, a limited partnership formed by Robert Iwamoto and Clyde Kaneshiro.

Over the years some facilities that were finished, such as a restaurant, gift shop, cultural center and golf clubhouse fell into disrepair and were abandoned.

The existing 18-hole golf course, pro shop and 75-unit Colony One condominium complex are still operating, and the county leases land month-to-month from SM Investment for the Punalu'u Beach Park.

The new plan by Sea Mountain Five Partners calls for a "world-class" resort with a full-service hotel, and improvements to the existing 18-hole golf course to upgrade it to a championship course. The partnership, a combination of Hawai'i

and Mainland investors, has announced it will prepare an environmental impact statement for the project.

Homes in the project will be marketed to well-to-do buyers seeking second homes as well as local residents, according to the notice. The land closest to Hawai'i Belt Highway would be developed into larger "estate" lots with ocean views, and more homes would be developed around the golf course.

The project would require im-

provements to the existing wastewater treatment plant which is too small to accommodate a project of this size, and also a new water reservoir.

People or agencies wishing to be consulted about the project can contact Sea Mountain Five LLC, 433 North Camden Ave Suite 1070, Beverly Hills, CA 90210.

Reach Kevin Dayton at kdayton@hawaiiadvertiser.com or (808) 935-3916.

Big Isle residents fear development will ruin the fragile Kau oceanfront

By Peter Serafin

Special to the Star-Bulletin

W/22/04 AI

PAHALA, Hawaii >> The Polynesians who discovered Hawaii landed first in Kau on the Big Island — a district larger than the entire island of Oahu.

Today, Kau's 80 miles of coastline between South Kona and Volcano remain essentially untouched.

But in today's booming real estate market, large tracts of Kau, including environmentally fragile stretches of coastline that include fishponds, estuaries and marine nesting areas, are up for sale and, many say, ripe for development.

Families are now seeing oceanfront playgrounds they have used for generations being sold off to outsiders.

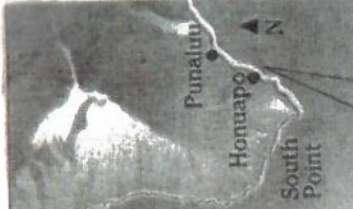
And that has become a major concern among residents who live along this southern stretch of the island. Many of them are banding together on several fronts to fight "irresponsible development," which they say will destroy both the ecological diversity and agricultural economy of the region.

"This is the last unspoiled coastline in Hawaii," said longtime

Please see Kau, A7



Area of detail



Growing threat

Residents of the Big Island's southern coastline fear a booming real estate market will destroy their way of life.



COURTESY OF JULIA NEAL

Guy Enriques, volleyball coach for Kamehameha School in Keanu, grew up in Punaluu and would like to see the area preserved for future generations. He and his son Evan study marine life, fish with throw nets, surf, swim and take their boat out along the Kau coastline.

Kau: Beaches provide nesting grounds for sea turtles

Continued From A1

resident-turned-land-use activist John Replogle.

"Everything is up for sale here. If we want to preserve our rural character, we have to start planning now," he said.

Despite the long coast, only a single 5-mile section of shoreline is easily accessible without using four-wheel-drive vehicles or driving 12 miles to South Point.

These sites also contain ancient heiau and other culturally or environmentally significant features. Best known is the black-sand beach at Punaluu. Popular with residents and visitors alike, Punaluu is also an important nesting area for the endangered hawksbill and green sea turtles.

Kawa Beach is a longtime camping, surfing and fishing spot that is part of a 315-acre parcel sold several years ago.

Honuapo (Whittington Beach) was purchased by a California company for \$2.8 million after Kau Sugar shut down. The county still owns and maintains a small beach park with restroom facilities.

Federal and local elected officials are aiding the preservation efforts. Last summer, the Department of the Interior bought 116,000 acres of Kahuku Ranch adjacent to Hawaii Volcanoes National Park, increasing the park size by 60 percent. At the dedication ceremony on Sept. 2, U.S. Sen. Daniel Inouye announced that he and U.S. Rep. Ed Case are also trying to acquire the remaining Kahuku land makai of Highway 11. That 1,500-acre parcel includes the Sam Damon ranch house and other historic ranch buildings from the 1870s.

"We are in a race against time," said Inouye at the dedication. "As the urban sprawl continues to spread beyond Oahu and into our neighbor islands ... we must be very vigilant in setting aside that which must be protected."

Hawaii County Councilman, Bob Jacobson, representing Puna, Kau and South Kona, wants the county to issue a bond to purchase coastal wetlands and park lands at Punaluu,



COURTESY OF JULIA NEAL

Kau resident Keola Hanoa weaves coconut fronds at Punaluu Black Sand Beach along the Big Island's southern coastline.

Kawa and Honuapo.

"These are precious resources that benefit the entire island," said Jacobson. He noted that in private hands these areas would not necessarily remain open to the public. One group is working to set up a Kau Land Trust to buy coastal areas on the market. Conservationist and former rancher Replogle calls the situation "an emergency." Local Realtor Mack McClelland cited the probable development of the coastline between Punaluu and Honuapo.

"We don't have a lot of time," he said. "I have people coming over here with cash you cannot believe."

One long-standing concern for residents is the possible sale of Sea Mountain at Punaluu — a 433-acre property that includes an 18-hole golf course, tennis courts and undeveloped land extending mauka of Highway 11, the southern route connecting Hilo and Kona.

The Sea Mountain sales Web site, operated by real estate firm Grub & Ellis, includes a "proposed resort master plan" calling for the construction of several new roads to reach dozens of single-family residential lots, areas zoned multifamily and "downtown" commercial/hotel districts just above the beach.

The Web site also states that "Hawaii County has a liberal zon-

ing code which allows you to develop each parcel in accordance with its designated zone plus other permitted uses listed under each corresponding zoning."

Portions of the golf course closest to the Punaluu beach park are zoned V-15 (resort-hotel) or RM-2 (multifamily residential). Residents fear that the fragile black-sand beach would not be able to survive such development.

The County of Hawaii leases land from Sea Mountain for its Punaluu campground, beach showers and picnic pavilions — a lease that the new owner could terminate with 60 days' notice. Brooks Borrer, managing director of Grub & Ellis' Kona office, did not return a call from the Star-Bulletin seeking comment.

But Sea Mountain is just one of many worries.

Residents fighting to preserve the agricultural base of the region failed to block a proposed housing project 1.5 miles above Pahala on former C. Brewer sugar cane land. Despite last-minute discussions on Nov. 12 with a 12-member delegation from Kau, Mayor Harry Kim signed a law that rezones 172 acres of land into 17 house lots of five to 12 acres.

"Ag is my bag," said local farmer and longshoreman Kyle Soares, who advocated leasing the land to farmers who will actually work it.

APRIL 25, 2004

SUNDAY 11:30
[HAWAIIAN
MOMENT]

4-25-04

Big Islander recalls life at Punaluu Beach

Punaluu Beach, a black-sand beach in Kau, is one of the Big Island's most popular visitor stops. Circle island tour drivers take their groups there daily to see the black sand and the sea turtles that rest on the beach.

In 1981, Jeanette Howard, a longtime Punaluu resident, recalled her childhood days in the village.

"I was born in Punaluu in 1923, and I've lived here my entire life. I'm Chinese-Hawaiian, married to a fisherman, and our house is near the restaurant parking lot. We still fish the koa'ahi and opelu offshore.

MOP Alumni Crowned Miss Hawaii!

The month of June brought smiles and celebrations to MOP, the University of Hawaii, and Malika Dudley, a UH Mānoa graduate and former MOP student. Dudley was recently

Honolulu Star-Bulletin

"Kahiolo is the left point of the bay. There's a heiau on top of it and a sacrifice stone in the bushes. It's a big rock slab. Puu-moa is the right point of the bay where the picnic pavilions are located. Offshore are all the little moku that protect the beach.

"Punaluu is the general name for the beach and the pond behind it. When I was young, the beach used to be from halfway out to the boat ramp, but it has always eroded, even before sand was hauled away by the county and other people.

"Koloa is the shore beyond the park. It used to be covered with ilili called ilili hanau, or "maternity stones," but there's very few right now. Most of them were hauled away for various construction projects.

"Farther down at Ninole there used to be two springs in a big pond, Kauale and Puhau. Kauale was the female spring and Puhau was the male spring, but they were covered in 1979 and 1980 by floods that brought down a lot of mud and rock."

"Hawaiian Moment" was written

From the staff and students of MOP.

*Congratulations
Malika!*

Update

MOP Alumni Crowned Miss Hawai'i

The month of June brought smiles and celebrations to MOP, the University of Hawai'i, and Malika Dudley, a UH Mānoa graduate and former MOP student. Dudley was recently crowned Miss Hawai'i. Her win carries her through the ranks as a contestant in the renowned Miss America pageant where she will compete with women from across the US for the coveted title of "Miss America."

Malika is the daughter of UH Hilo Oceanography Professor, Walter Dudley, Ph.D. and UH Hilo French Instructor, Kamila Dudley.

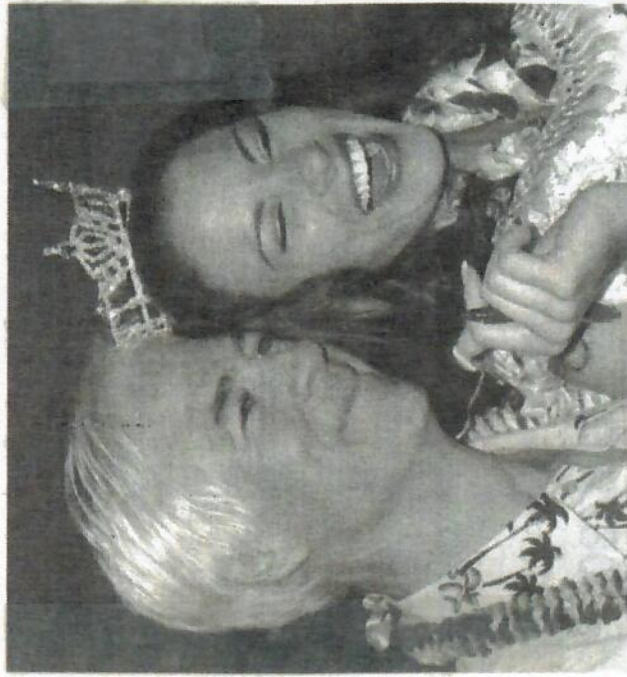
Read more about Malika, her background, and her future as Miss Hawaii at the Hawai'i Tribune-Herald:

www.hawaii.edu/ur/newslinks/tribune/tribune050613.html

From the staff and students of MOP,

Congratulations Malika!

Update



UH's Malika Dudley: Miss Hawaii



JCC. 2020

Linda & George -

Mele Kalikimaka Hau'oli Makahiki Hou.

I'm now 96 and still hanging around, so far.

Hope all is well, as I am, right now.

Let me know when you next Home-Project trip -

at 96, can't renew my drivers license and I'm sad. **May your holidays be filled with joy and good cheer!**

but I still drive to the beach and around.

Take care -

Love u guys

Jeanette



Jeanette Howard
P.O. Box 4
Pahala, HI 96777-0004

MELE



KALIKIMAKA

DEC 2005

Happy
Hau'oli Makahiki
year
new Hou.

Me ke Aloha Pūmehana,
with warmest love,
The Howards
of Penalin Black Sand Beach
Jeanette + Arnold

TURTLE SACRIFICE
PENG-HU, TAIWAN
February 1998
Photo by George H. Balazs

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PENG-HU, TAIWAN
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