

MAY 2012 - FEB 2013

66.8.187.29

Mead 2012-2013

COMPOSITION

100 sheets/200 pages

NEED  
TABS

BALAZS

2 of 3

2013 FEBRUARY

Advice from a  
SEA TURTLE

Swim with the current

Be a good navigator

Stay calm under pressure

Be well traveled

Think long term

Age gracefully

Spend time at the beach!



Ilan Stora



14-16 <sup>NOON</sup> <sup>FRIDAY</sup> Nov. 2012  
Green Turtle STATUS Review Team  
HYATT LAJOLLA San Remo Room  
HOTEL 9AM

NOVEMBER 14 2012 Wednesday - 16 people in room  
"DPS Policy" (13) Team members

~~NO VOTE~~ for passing.  
(2/3) of members present.

Report = Conclusions vs Recommendations

what does this mean? Sandy McPherson - presentation -  
"Any changes to Hawaii listing will affect the global listing"

Susan - presentation DPS policy  
PULTZ Discreteness / significance

"Awareness Bias"

Coll  
Heather Present - Comments - handout.  
All go into "Administrative Record"

- Major comments
- 1) Late age Hgturtle
- 2) 5000 nesting not met

282 distinct comments

Robin =  
New ways of thinking about old information

Lunch 1230 - 145 pm → w/ STACY & Peter  
Mike Jensen Genetics  
MS/work

Lunch - Stacy GB Peter

Serd Peter Scitz  
Melissa  
BRUNSON  
kyle

Need  
Bennet  
Book

14/2012 SRT  
Wednesday P.M.

GB = Bogged down by  
dps everywhere

Lucho's  
egg size

securities  
no sex chromosome

2nd trimester  
sex determined

SRT

"384 base pairs" <sup>equivalent</sup> Global data set -  
4,500 Sample 134 haplotypes

"Long" 766bp sequenced INdo Pacific set  
2,100 nesting samples from 44 rookeries  
104 haplotypes

Dutton "marked" separation

Hanzi spatially ecologically, etc. discrete  
but how "marked"

VIEW  
10,000' level -

EXTRACTION  
Nesting Rookeries

0.5 difference  
N = 6 + LOT

"LIBRARY"

Courtesy - 4600 documents

+ "Mendelley Reference Library"

"3 days  
of  
TRAINING"

→ Meaning

Dinner Group  
"Rock Bottom"  
RESTAURANT

need  
Brooklyn  
party

need Broaden project paper Robin

9AM AT SWFSC Conference Room

15/2012

ESU = Evolutionary Unit = "DISTINCT POPULATION SEGMENT"

SRT

Thursday

Robin <sup>WAPLES</sup> - Presentation Breakout #PS

11/15 on HK 11/16

Defining IS A 2-step process =

- 1) Possible Relationship
- 2) ID thresholds

purpose = depends on what are you trying to accomplish? No right or wrong way - split

Genetics  
Life History  
Ecology

used PS "sparingly" Congress  
ie squirrels in Central Park

DPS - Promote consistency & predictability

1. Reproductive Isolation

2. Evolutionary significance

Major loss genetic can't get back. A significance?  
EXTINCTION = IRREVERSIBLE LOSS of genetic information, so has to be an underlying genetics basis.

ESU criteria

Reprod Isol - Tagging - Molecular Markers - Physical barriers

Evolutionary sign. = (Ecology / Life history) Proxies for adaptive differences  
INCLUDES Morphology / Behavior

David Hirtsh

11/15/2007  
Thursday

Things to Consider

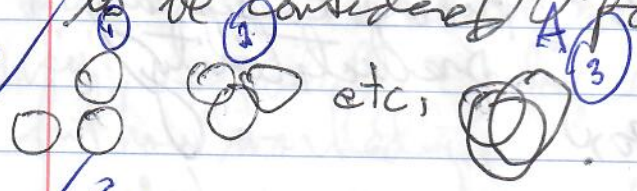
- Time frame or persistence
- founder effect & drift
- Migration(s) reproduction
- What do samples represent?
- What do samples present?
- STATISTICAL VS BIOLOGICAL

SRT

99.9% nuclear DNA - most important

How different do they have to be to be considered a "population" (=885)

Circles



Need

Nishizawa et al. 2011  
67 3 nesting sites

PNAS  
Fitzsimmons et al 1997 Genetics  
275 from 9 nest sites

Dutton et al. 2008 presented by Robin

Parker  
Pac. Science

"Hawaii most divergent site"



\*J. Se  
\*Kyl  
\*St  
\*E

300  
bu  
Jef

"  
Rep

3,00

Ap  
"T

"G

Need  
AB

11/14

need Amy Frey DATE

(202) 482-

87

WALLACE, 2010 SRT n=16

5384 ETHICS OFFICES MICHAEL CANNON

- \* J. Semmler<sup>1</sup> Me+
- \* Michael Jensen<sup>3</sup>
- \* Susan Pultz<sup>4</sup> Sandy
- \* MacPherson<sup>5</sup>
- \* Kyle VanHoutan<sup>6</sup>
- \* Robin Waples<sup>7</sup>
- \* Camryn Allen<sup>8</sup> ANN MARIE
- \* LAURITSEN<sup>9</sup>
- \* Heather Cole<sup>10</sup> Heather Hoas
- \* Stacy Hargrove<sup>11</sup>
- \* Carl Posardt<sup>12</sup>
- \* Patrick Opat<sup>13</sup>
- \* ERIN SENEY<sup>14</sup>
- \* Dennis Klemm<sup>15</sup>
- \* Dutton<sup>16</sup>
- \* Tomo

300,000 years colonization Hawaii East Pacific  
 Lunch 12:30-1:10 pm Meatball sandwich from lunch wagon  
 Jeff S. Returned -

"Reproductive leakage"

\* ANN MARIE LAURITSEN  
 fws.gov  
 \* Heather Cole  
 not a gov

6000,000 Million years - gt species  
 3,000,000 years separation Atlantic/Pacific

Analysis Paralysis  
 "The Mothership"

"Going through the world" - Dutton

Need-EDUCATE SRT ABOUT HAWAIIAN GREENS.

CRAIG 1998  
 Balazs

Susan - WAS STATE of Hawaii informed? ANSWER?

SUSAN - call 11/17/97

11/16/2012 8:30AM - **SRT**

Friday Hawaii  
Suggested Story - Ascension isolation  
Kyle Comparison

3000 km distance to nearest other nesting area. more for Hawaii!

Robin Persistent know evolutionary time.

Dutton Wish to learn new things. Hawaii the Genetic Story  
Comp 1 mtDNA + nuclear

ETP

Comp 2  
Comp 3

NOTE: A CONSERVATION GROUP HAS FILED FOR STATUS ASSESSMENT BUT NONE DID.

+ Nuclear - UPGMA tree  
Geographic Concordance Hawaii on its own

et al.  
Amorochs 2012

• Virus Lineages and Pinpoint Differences vs Greenblatt vs Herbat

Robin - Well documented Barrier  
need ETP - "The High Seas Desert"

PATRICIO et al. Global phylogeography and evolution of chelonid fibropapilloma associated Herpesviruses.

PAT \* (3) RAY

Dutton A Do R

me ALT said Jeff

Walt-pap Ac Pet

ETP 103

Jeff "ANATO

Bowery - Tortoises eating exotics

SRT DRAFT GUIDELINES

Need Limpus RAIN

PROVISIONAL DPS

"Discreteness" = Reached question of Susan Read consensus

\* (3) PAT - Significance

only surviving Range / gap

- ①
- \* ② loss
- ④ different genetics
- ⑤ Jeff - basket

Dutton = "Genetics are properties of evolutionary factor Adaptations not found elsewhere"

Demographic - Range alone = significance (Morphology proportioned flipper size)

Alternate point of view - HI & ETP are one DPS, said by Peter

Jeff - ETP stuff =

Witt paper biased because only fast growth nesters shown up

Peter = "FST order of 0.2"

ETP discreteness - consensus

10:30 AM "Hornets nest" -> "2-5 potential DPS"

1st turtle = "eternal"

Jeff 9-12 gt global "ANATOMY of an SRT Process"

Jeff S. 2007 IUCN 1/19 page + 2007 STATUS Review



Jeff

Estimates Meetings 2-3

NEXT

11/16/2012

Late - Mid-March  
Feb

FRIDAY

END 12 noon

prefer week of 3/11/13

ETMies Office

4:15 pm

Michael Cannon

(202) 482-5384

< Cannon@DOC.GOV >

864-6516 Superior Secure Solutions

864-8053

Andy - Security Guard

Richard Oyeda

808-284-0368

221-8363

808  
Friday  
11/16/12  
1:15 pm

VA December 8

\$1,210.55

Confirmation N6H576

LUi - call 685-777-3939

- Ken McKay

call 685-758 9593

- Samoa

office 685-6628

- Fiji  
- going to ISTS

15 day Feb 10, 2013 - Year of Snake

Chinese New Year

Lantern Festival = Feb 24 Sunday 2013

Significance of the Hawaiian Line  
the Wallace Line

BASKING

Best-studied self-contained globally

CARRY CAPACITY

Flipper Sizes, Color, Size See EAST PACIFIC

nest & forage contained by the

CLOSEST OTHER NESTING

GT SITE

IS:

only EVER?

Send Wynneken et al.

23 Nov

1/

- I

- Fe

A \$ OF PP 22 Date (11/15) Pay DATE } \$126,937 per year  
 10/21 - 11/3/12 174.5 A/L Locality pay?  
 18.75 C/T

(91)

BRION AMERSON BOOKS \$50 check sent  
 13723 Littlecrest Drive  
 DALLAS, TX 65234 -3651 11/19/12

from TAG SALES # Turtle money for  
 Hawaiian Banker 250 Robin Bond Hanama Bay  
 Recommended HOORAY FOR HONU

Timothy Adam  
 Managing Director  
 Cayman Turtle Farm : Island Wildlife Encounter  
 786 Northwest Point Road, West Bay  
 P O Box 812, Grand Cayman KY1-1303  
 Cayman Islands  
 (+1 345 949 3894 x3001 (Phone)  
 +1 345 938 4669 (Mobile)  
 +1 345 949 1387 (Fax)  
 8 www.turtle.ky

11/3/12 330pm report  
 ATM WITHDRAW \$  
 SHUTTLE VAN 35.  
 HOTEL 3 days  
 Internet & 9.95 day  
 11/19 TRAVEL Lodge receipt  
 11/20 1055am HA

13 - 16 NOV. 2012 14-15-16 (wood)  
 Monday Friday  
 SD HA FLIGHT 1055pm DAILY 3 NIGHTS HYATT  
 SPT. I Meeting LA JOLLA, CALIF.

16 - 19 NOV. 2012 YUCCA VALLEY  
 Friday Monday PM

Meeting with FRANK  
 23 NOV. 2012 Friday (8 & 9) ALL Centers  
 11AM CONTEST SCORE  
 Informal Process  
 FORMAL Process need Niesa email complete? Meet?

2 TAM 26395 Fedex TO MARGARET MURPHY  
11/23/2012 ID 65420 Telonics # 647355  
Friday

Mon  
12/3

ID 68329 Telonics # 647939  
8 hours on / 24 hours off

Monday Telecon  
11/26/2012 9:30 - 11 am ALAN & KAREN  
Re Cayman Turtle Farm.

Haven't been there since 2002 workshop but  
sent students and received samples. Owen's students  
last 5 years.

Food Nutritionist "Ellen DARENfeld" "NOVUS"  
Vet on Call, Brian Stacy - vet research.  
Proper water quality, pump rate, food quality,  
Turtle density.

Necropsis  
Genetics?

Diseases in Wild?  
Discussed operation Green Turtle.  
DID NOT HARM, possibly did some good.

11/27/2012 TUESDAY  
Telecon with Peter Dutton Re:  
"Potential Genetic CONTAMINATION"  
from CTF. None known.  
Several interesting Genetics projects  
he could do there WITH students.

12/5  
PSD  
77K  
need ✓  
Ries  
we B

PA

Monday  
12/3/2012 10AM

TELECON

45min telecon China

re proposal, Keith Chan  
at Jeff Semiroff, <sup>staff years +</sup>  
Reduce staff

Wednesday  
12/5/2012 1PM  
PSD STAFF Meeting.

- Highlights
- ① Shawn 19 years bigger in size only she can determine if better
  - ② SB Wend Devon 80% cost reduce over AIR cargo.
  - ③ Irene 17 Dec. Selectee
  - ④ Clayman MAINLY 80% DATA 15% FF 11 months cap

Need  
Riesal  
DUE  
DEC 12 inventory list  
chemical waste disposal - specimens  
PIFSC's

we B LOG = "Blogged down"

DISCARDED  
4 years - budgetary  
EWASTE IN JANUARY

Pay Someone to Scan. FORD ISLAND  
How many employees at NOAA?

94 Remaining 2012 Christmas cards

Margaret Murphy

See ALSO PAGE 6 28.56

QIN CHUANXIN  
S. CHINA Sea Fisheries Research Institute  
CA of Fishery Sciences  
231 West Xingang Rd.  
GUANGZHOU 510300 P.R. CHINA

Huang Honghui  
Frederick YEH Tortoise  
NO POSTAL

Bennetts

ARIEL

Kamezaki STAJ - POSTAL MATSUZAWA need postal

LIWEI  
HRCUNIV.

DR. LAM; I-JUNN; SAITO; KURITA; Soichi

FARMAN  
DR. XING

Yi-chen Ariel Chen  
NO. 10, LN. 317, DAMING Rd.  
DALI DIST. TAICHUNG 412 TAIWAN

SAITO Tomomi TEL. 81-88-855-4099  
Home: 2-4-6 Shin-Yashiki  
KOCHI 780-0911 JAPAN

Office: Usa MARINE BIOLOGICAL INSTITUTE  
KOCHI UNIVERSITY  
194 Inoshiri, Usa-cho, TOSA 781-1164  
JAPAN office TEL. 81-88-855-0425

For Frank  
with letters  
with specimens  
signature  
specimen report  
most years

Flaking  
SC  
from  
27

need "S"  
BURNETT  
KAWA

SCOR 9AM 12-7-2012

(95)

THURSDAY

For Frank  
- draft letter, USA  
- life history  
- sightings  
- specimen report

Age and ecological data from  
hawksbill sea turtle shell

DR Kyle Allen Andrews

Research of hawksbill shells  
Bjornal paper data stable isotope paper density kernel  
95 75 50

1800 scutes 1745 scutes 683 turtles

No shift in habitat hawksbill

"SW doing for us" - stable isotopes

> 1940 harvest data from Japan  
Fixing "never before published data" STAT?  
Scute Loss Addressed?

from 27 sites turtle bone  
Archaeological

Distance between  
Stress mark  
important - not  
just number of lines

Need "Stress" = definition -  
USE  
BURNETT  
KAWAI

Samples - good science sense

IMAGE Bekko paper KUH  
"Melissa"

AT P&H & Liginski

96

CAYMAN  
7 Mile Beach Philatelic bureau  
949-4177  
West Shore PLAZA 2 km South  
of SunShore Suites

- x Need - 'TW "How TO PREPARE A TURTLE SHELL" by STACY.
- ✓ EU SMALL TURTLES.
- x JOUG MADER - when AT CTE? April 2012
- ✓ Gradient V to ~~web~~ web sites
- x Janice Flowchart(?)
- ✓ Report to y, ALAN / KAREN / MTSG (if POSTED on web.)
- x Brendan / Annette MTSG Members?
- x CHRISTMAS CARDS

SEA LIFE PARK HAWAII  
259-2500 ■ [www.sealifeparkhawaii.com](http://www.sealifeparkhawaii.com)

A family favorite, Sea Life Park Hawai'i continues to grow and innovate, offering exciting new visitor programs in addition to conducting research and conservation behind the scenes. The park's most iconic attraction is its crew of bubbly Atlantic bottlenose dolphins, which are available to not only show off their aquatic prowess, but also to meet up close.

Sea Life Park's newest exhibit is the 300,000-gallon Hawaiian Shark Tank, with sandbar, scalloped hammerhead and black-tip sharks—all native to Hawai'i.

Touch-screen technology features shark information, and the Shark Trek experience offers visitors the chance to safely observe the sharks from within the tank.

And, don't miss these conservation-oriented programs. At the Seabird Sanctuary, the park cares for rescued Hawai'i seabirds that are in the process of rehabilitation or can no longer survive in the wild. A rare opportunity to see shearwaters, frigates, terns and more! The Hawaiian Green Sea Turtle Conservation and Propagation Program is helping this threatened native species thrive through breed and release efforts. Visit new honu hatchlings, feed the larger residents and learn more about these wonderful sea critters.

HoloHolo-ISLANDAIR  
December 2012 - May 2013 | 3

SATURDAY  
10P

ONGCM

IN  
TO  
TIN

12/11

12/18

12/18

12/18  
TO

Needs  
MORE EN

SATURDAY  
8-14  
10 PM 12:00 PM  
FRIDAY

DECEMBER 2012

"TO BE  
MOTIVATED"

(97)

# CAYMAN BWI

ON GCM Island SUNSHINE SUITES 9-13 DECEMBER 2012

INSPECTION OF CAYMAN TURTLE FARM 10-12 DEC.

TO WORK, GHB, Brendan Godley, Annette Broderick,  
Tim Adam, Walter Mustin.

Meeting 9 AM OTDPS SKRM  
12/18/2012 Tuesday DATA BASE work -  
Homin Devon, Wendy, Irene me

12/18 Tues. 1030 am Tel. Conf. JOHN WANG, J.S.  
Reg LMR China

12/18 Tues. Lunch meet re JAPAN JW JOHN WANG

12/18 Tues. 4 PM HST 10 AM HK TIME  
Margaret Murphy (41 min notes)

## TOPICS

- 1) ALGAE & other conferences VACID work to report - no other students ending and starting
- 2) CITES - Register Scientific Institutions SAMPLES from Reserve
- 3) NIMMBA HAPPY
- 4) Nominatum IST "my FAULT" LAST minute Request letter
- 5) Afd probation INOBYE
- 6) C/Turtle NOT MENTIONED

MORE ENGLISH  
needed



98

Friday 12/21/2012 12 noon 1.5 hrs  
lunch at C'holos with Ray Clarke  
No Shore  
Thursday 12/23 10am TV punchbowls D.K. Inouye Memorial

DEC. 23-27 2012 4 nights  
Honolulu APT. 104

D.K. Inouye:  
"OPPORTUNITY AWAITS those who have the heart and strength to PURSUE it."  
"Dan Inouye is HAWAII, AND Hawaii is DAN Inouye"

Microsoft Office Home & BUSINESS

MTSG Pacific ISLANDS Region sent 12/25/12

need \*

- Greater use of MTSR LISTSERVER

need \*

- 4 YEAR TERM

- Closer to EAST ASIA Region

- List membership MAY NOT be complete

- Attending ISTS BALTIMORE?

- TRAVEL to or through HAWAII - notify Honolulu

- Where physically located? where working?

- Willing to continue role - What is that role?

- Send CV

↓ \*

- French/English Language Islands closer together

\* \*

- Cross appoint - Yoshi

- Culture / sustainable use - Islanders harvest is a reality of our Region

SPREP

2016 ISTS Honolulu - OR - Fiji or PF

Date: M  
From: G  
To: Mil  
Cc: Ric  
"IX  
5 Jef  
Mil  
Eri  
Ric  
MIC  
Mir  
Bri  
Jon  
Kir  
14 Nic  
15 Ann  
Subject  
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6000

AND P  
12/28

W

SEA  
C

Irene Kelly

99

Kelly

Date: Mon, 3 Sep 2012 11:05:42 -1000 (HST)  
 From: George H. Balazs <gbalazs@honlab.nmfs.hawaii.edu>  
 To: Milani Chaloupka <m.chaloupka@uq.edu.au>  
 Richard Reina <richard.reina@sci.monash.edu.au>  
 "[X-UNKNOWN] C le Gaspar" <cecile.gaspar@gmail.com>  
 Jeffrey Kinch <kinch.jeff@gmail.com>, Mike McCoy <mmc@aloha.net>  
 Milani Chaloupka <m.chaloupka@me.com>, Kazuo Horikoshi <thori@f2.dien.ne.jp>  
 Eric Gilman <ericlgilman@gmail.com>, Marc Rice <mrice@hpa.edu>  
 Richard Farman <richard.farman@aquarium.nc>  
 Michael White <crwban681@yahoo.co.uk>  
 Miri Tatarata <miri.tatarata@environnement.gov.pf>  
 Brian Bowen <bbowen@hawaii.edu>, Sue Tael <s.tael@conservation.org>  
 John Pita <wasala2004@yahoo.com>  
 Kirstin Dobbs <kirstin.dobbs@gbrmpa.gov.au>, Lui Bell <LuiB@sprprep.org>  
 Nicolas J. Pilcher <npilcher@mrf-asia.org>  
 Anne Trevor <staralma@ipasifika.net>, Thierry Work <thierry\_work@usgs.gov>  
 Subject: With Appreciation and Deep Regrets from George Re: MTSG regional position

STACY HARGROVE

MTSG  
 Lui BELL  
 FEB. 24, 1956 -  
 NOV. 29, 2012

Index  
 857 USD  
 7.9 = 780 USD  
 ① Backup device ✓  
 ② Insurance ✓  
 ③ SOFTWARE Microsoft ✓  
 ④ Virrs etc. Protection ✓

(AND PRIOR)

12/28/12 JOE O'MALLEY Re Turtles =  
 "THEY'RE ALL OVER THE "FRIGIN" PLACE"

"WE'RE JUST DEALING WITH THE FORCE OF NATURE"

SEATURTLES 911 MR. YE ZHENGTING

LAURA 2/2012 HAINAN VISIT

WHEN AT  
APT 104  
SAW  
ON TV

104 NOTTONANI  
+ 61 419180554  
HIEU  
MAVI TV  
"KAKO THING"  
need

KANALANI  
PAPUKOA

857.  
7 | 6000  
  560  
  ---  
  400  
  350  
  ---  
  500  
  490  
Com

12/26/12 Revolution at Koa #4  
Com

Channel  
"Mull 6"  
gather most  
of our food

PP Presentation

See p. 67

Releasing  
Twitter

- 2007(?) Release at Reserve - 999
- "Temple Gods" Turtle sacrifice 1999
- OBAMA HANAUMA Bay Release
- TIEN & GB newspaper at Lisichio
- MAP CHINA DAYA
- Program of XINSHIAO
- MAZU temple
- JUNE 6, 2012 Transit of Venus

Booklet

OPHK Release 114 years?

\* - IMAGINATION more important than knowledge

2012 KN Refeo.

- 4-6 wk English
- Hawaii wholesaler
- Green card
- First tag
- Fuji
- My album photos
- HKCU TUITION
- APP. HK public sighting
- GFA KAYE
- 7300, 16,520, 1,051,200
- OPHK 63,072,000
- Director SUSAN
- JAN 15 HST
- arrive 1/16 HK date

Obtain picture  
Mention AT END  
Group photo  
SLP Release  
MAMA LANA

Xerox

SNAP shot

SEP P. 67

LM INITIAT

XEROX

MAILED TO JOHN EHRISMANN  
BRIAN SARAGENT

NAME of Company = "QUALITY PAINTING"

(101)

Roof 1300.  
FACIA 585.

MAILED

12/31/12 Territory #1356/000.

American Savings = 885.  
#1788

1885. TOTAL

1885.

SUSIE VISIT = 2/23 - 3/16/2013 <sup>low timed</sup> EWC

SNAP SHOT

22 pictures

Releasing sea turtle

Tell the story. 8 MINUTES = 480 SECONDS

✓ - AUTHOR'S PICTURE(S) ✓ - XUN LIAO from Book ✓ - TITLE picture slide ✓ - CHINA MAPS

✓ - The Reserve picture. - DAYA BAY MAP AREA - See X PPS

sb - See my TAIWAN PPS/chinese - See my SHANGHAI presented

SEP P. 6

TEXT SLIDE(S) I Imagination ...

Premise is releasing in universe

Command over a species - Captive breed - Freshwater turtles

Release Reasons known: HATCHERY - Rehab Release  
+ Comb 0 Reasons: HEAD START - Buddhist  
- Research - Return of hatch

TRANSIT of Venus + Auspicious DAY? - Bio-political - CHINA

LMR - Acknowledgements self travel "Release" key word

INITIATIVE

opportunities for cross-culture understanding & study

MAZU Temple at Resort Pictures from prior trip

Not common in HK or TAIWAN.

"Breed Release"

COMMAND of "

AUTHORS NAMES IN CHINESE SEATURTLES/PYTHONS

HARNESS

KY-candidate for BOARD EAST ASIA

✓ - LAST PICTURE - Happy Lunar New Year of the Snake

AND LAST - Add CHINESE DAYA BAY 22 N 14E

① LAYSAN 2011 (visit 2012)  
 ② DIAMOND HEAD 9/12, ③ MOLOKAI 2012 GB  
 1/8/2013 EXAMINATION EXAMS A2  
 Tuesday 945-1PM

Wendy, me, Todd Jones, Franie  
 ④ HAALI  
 EGGS FROM BUTCHER  
 10 TO FRANNIE

1/7/2013 6pm 25min Chishing injustice shown  
 Monday Education Career cold shoulder  
 Wants PhD / Overseas not Taiwan English test  
 Cheq Resonant GRE  
 Doesn't want to be told what for dissertation  
 Wants a part of it decision, "PARTED"

1/9/2013 9am Tel from home  
 office plans etc. 1st floor  
 597 sq ft. Bronson  
 16th - 18th floor

1/11/2013 A2 3rd and FINAL from  
 FRANNIE FRIDAY  
 ① Waiehu Maui 94 shells, 2012  
 ② ALL KAAHALOA, MOLOKAI + KALAN  
 1 mile WEST of KAAHALOA; LAST SAND  
 ③ POLICE BEACH  
 ④

HEROES  
 RE  
 THE IS  
 RE  
 COMBINATIONS  
 BMIN PHOTO VISIT  
 cell  
 laptop

XEROX bleed | Donghai 2.3 km = 386 miles (103) XEROX  
 Release Xi Shiao TO "RETURN TO THE SEA"

The desire to Release sea turtles  
 is a "A universal <sup>human</sup> desire and established  
 Cultural Practice"

"LIFE RELEASE FOR MERCY" AND EAST ASIA  
 (AND REALLY GLOBAL)

"REASONS FOR RELEASING SEA TURTLES  
 IN CHINA"

- 3) <sup>Combustions</sup>
- 1 OFFICIAL DECLARATION <sup>release life for mercy</sup>
  - 2 RELIGIOUS - "TRADITIONAL way of doing something"
  - 3 RESTOCKING - "RETURN <sup>Good up Buddhists</sup> Grow individuals"
  - 4 CONSERVATION AWARENESS
  - 5 CLOSED FISHING SEASONS
  - 6 PERSONAL "Release LIFE FOR MERCY AND RELIGIOUS BELIEF"
  - 7 RESEARCH
  - 8 COMMUNITY SPIRIT [INSTINCTIVE]

8 MIN PHOTO VISIT

- Fishing SOURCE OF TURTLES
- 1) BYCATCH DONATIONS ✓
  - 2) ENFORCEMENT CONFISCATIONS
  - 3) CAPTIVE REARING [RANCHES] Facilit ✓
  - 4) REHABILITATION AQUARIA
  - 5) CAPTIVE BREEDING BREED RELEASE COMMAND OVER (OF)
  - 6)

cell text =

USA = What <sup>MAY</sup> seems like a array is Greatest Strength  
 9 "HARMONIOUS OCEAN and HARMONIOUS FISHERIES"

LONG LIFE - PRAY TO TURTLES (PADRE ISLAND)

Xerox

1/8/2013 Wed.

OBAMA RELEASE

TITLE SLIDE

Imagination is More Important than Knowledge: Visions of Sustainability for People and Turtles in East Asia

\* need Yoshio document

LIST - species -

show BALABAC

MAP

PP CHINA

POPULATION w/out Taiwan

= 1,318,562,729 people

by George Balazs IUCN specific Islands Regional Vice Chair

DAILY INCREASE =

TITLE SLIDE

haoching sunrise?

Daya Bay 92 km Coastline

Remaining IMAGE SOURCES - sent by email; My selected cb; PP CHINA TAIWAN x 3; BALABAC MAP; MAZU of OCEANIC PT. Put all selected for PP in one file - ALL BACK TO MESA PDF - OPHK Release; Chinese on PPg;

MIN PHOTO VISIT

Releasing a few at Reserve. PUXIAN MONASTERY 82yo NUN 256lbs TRADITIONAL Buddhist \* name! XIWENJING MISSCHINA 200? OGASAWARA - 90cm released from XUMIN TOWN small POOR in TSANKONG CITY of GUANGDONG. TSANKONG is a Coastal City. "Releasing is the TRADITIONAL way of doing something GOOD AS Buddhists!"

991 - MR. YE ZHENGTING = Frederick NGSTR = CHINA'S NATIONAL GANGKOU SEA TURTLE RESERVE

"LESS Se... CORRECT TITLES: THE XUNLHAO GUANGDONG PROVINCE EXPERIENCE: RELEASING SEA TURTLES FOR RESTOCKING

"Friend TRU

XISHIA - EAST IS. \ USA PIN /  
FFS - EAST IS. //

XEROX

105

LESSONS TO BE LEARNED

SESSION: "CULTURAL CONSIDERATIONS IN CONSERVATION"  
& TRADITIONAL

CORRECT TITLE: "THE XUNLIAO GUANGDONG PROVINCE  
EXPERIENCE: RELEASING SEATURTLES FOR RESTOCKING  
AND CONSERVATION AWARENESS IN CHINA"  
BALAZSEN, GU, AND ZHANG

"WE LIVE THE MOMENT AND WE PHOTOGRAPH IT"  
"IF YOU WISH TO KNOW THE MIND OF A MAN,  
LISTEN TO HIS WORDS" (CHINESE)

"HAVE  
EXTRAORDINARY PARTNERS"

Democracy is not ALWAYS EASY.

Generosity

PARTNER & FRIEND

"operate out of CONFIDENCE with purpose & kindness  
COURAGE NOT FEAR" PATIENCE

JOE Biden 40 years of building TRUST

America Built on  
"IMAGINATION"

"Friends" definition  
"TRUST" =



TORN INTERMEDIATE NEXT STEP Meeting  
3-129 Room Fed. Meeting FW  
Debretan Oct 24, 2012

① New Supervisor

DOUG STALLER  
1 PM agenda will be  
Christine - Acting Manager

Beth F. NORI  
BARRY S. jessie  
Susan White  
Ann Bell  
LeeAnn

12/10/13

Registration  
Contaminant Specialist - LeeAnn  
"Science of the storm" December 9, 2012

① Chad

DIARY  
Bell Presentations PP pictures before & after  
Peter on speaker phone

EU BIRDS

"ABRAM FLEISHMAN / USFWS 2012"

Amazing Carpentry

Computers?

Satellite Router

Stephan - Flight

Mike JOTTIS <sup>band</sup> description of storm

All Fed tagged except "warehouse"

→ pressure drop - sounded like a train coming  
May or June deployment - Charles L. Seals

Staller, Do  
To: Christin  
<chad\_bell@...>  
<peter\_ma...>  
<barry\_stie...>  
<LeeAnn\_V...>  
samantha.b

MARCH KAHANA - GAS TO Midway

6 Barrels - settle gas

107

Sea Wall? (OK)

sand not back

Stephan - East Is.

need photo file of what we have

\$4 cat buried came

Storm from SW corner

JOHNSTON IN JUNE - TRIANGLE VESSEL TO TONAREVA (PENRYHN)

Release @ Asbestos

② - "SE corner" Release

Unknown about LAYSAN PCBs and plutonium - Tents there?

35 acre "land fill" - Lee Ann Woodward

if needs ANN BELL HERLOG DIARY by volunteers  
Computer satellite Router - stephan aerial east  
Chad Bell PP presentation KROPIDLOWSKI  
Sait

Staller, Doug <doug\_staller@fws.gov> Wed, Jan 9, 2013 at 9:51 AM  
To: Christine Ogura <christine\_ogura@fws.gov>, Ann Bell <ann\_bell@fws.gov>, Chad Bell <chad\_bell@fws.gov>, Meg DuhrSchultz <meg\_duhrschultz@fws.gov>, Peter Martin <peter\_martin@fws.gov>, Stefan Kropidlowski <stefan\_kropidlowski@fws.gov>, Barry Stieglitz <barry\_stieglitz@fws.gov>, Maylanie Hipolito <maylanie\_hipolito@fws.gov>, Lee Ann Woodward <LeeAnn\_Woodward@fws.gov>, Susan White <Susan\_White@fws.gov>, charles.littnan@noaa.gov, samantha.brooke@noaa.gov, irene.nurziahumbug@noaa.gov, george.balazs@noaa.gov

2/15/2013 VISA PAID \$100 # CONFIRMATION-148941150

## THE XUNLIAO GUANGDONG PROVINCE EXPERIENCE: RELEASING SEA TURTLES FOR RESTOCKING AND CONSERVATION AWARENESS IN CHINA

George BALAZS<sup>1</sup>  
Ka-yan NG<sup>2</sup>  
He-Xiang GU<sup>3</sup>  
Feiyan ZHANG<sup>3</sup>

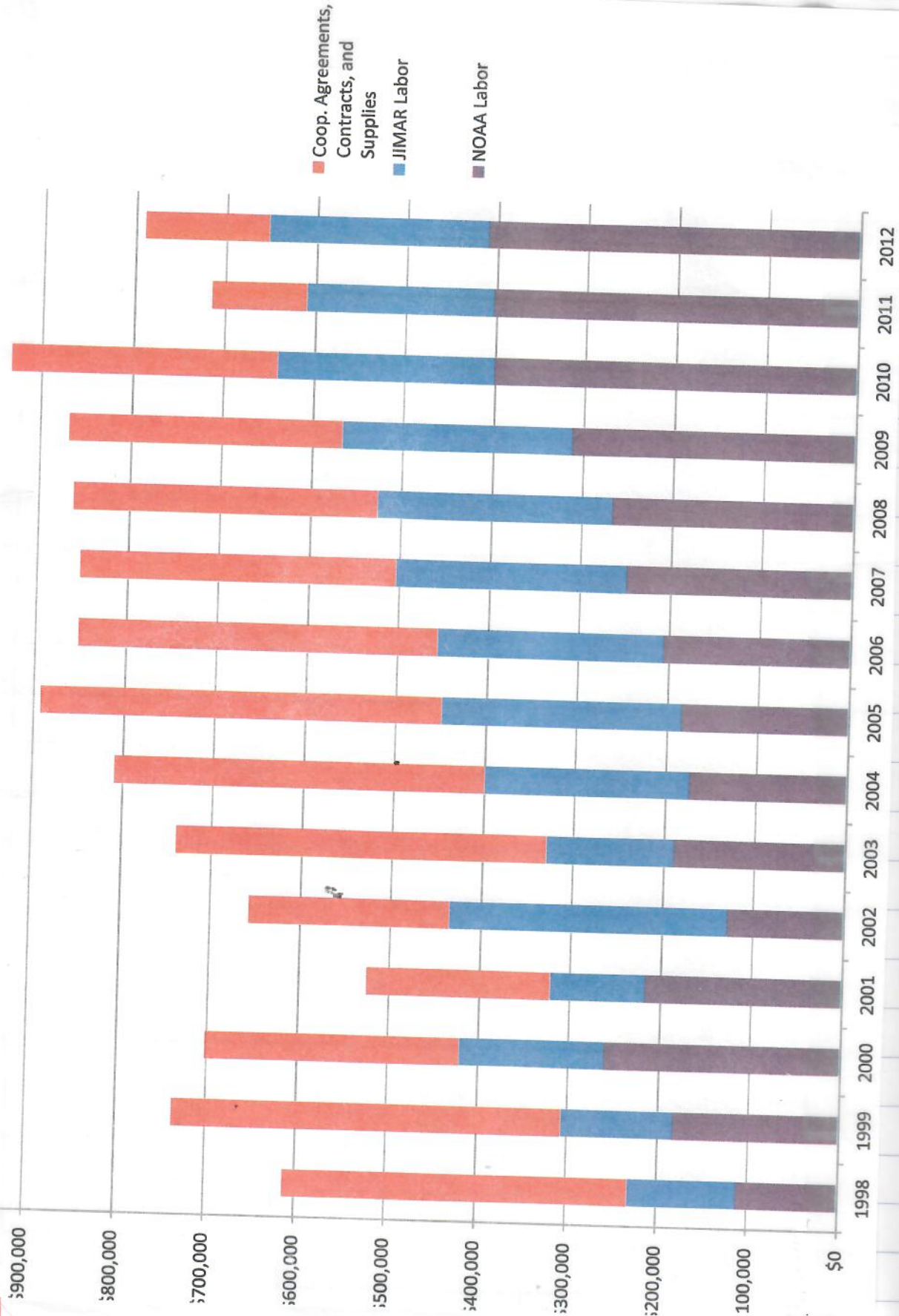
<sup>1</sup>Pacific Islands Fisheries Science Center NOAA, Hawaii USA

<sup>2</sup>City University of Hong Kong, Hong Kong SAR PRChina

<sup>3</sup>Huidong Gangkou Sea Turtle National Nature Reserve, PRChina

There is widespread global and historic multi-cultural interest in releasing or returning sea turtles to the sea for restocking efforts, conservation awareness, government-sponsored activities, and even for religious purposes. Sources of these turtles have included hatchlings from artificial hatcheries, captive rearing projects, captive breeding, fishery by-catch, and turtle rehabilitation facilities. Often the turtles are released in considerable numbers with advance publicity attracting many adult and child spectators filled with excitement and interest. The mass release of sea turtles for restocking and conservation awareness in Mainland China occurs periodically but not predictably as to date and location. Very little information in English has been reported outside of China about internal turtle release events. These activities usually include the release of other marine life such as fish, shrimp, and crabs obtained from aquaculture facilities. On June 6, 2012 the authors were honored to participate in the release of 134 turtles and an array of other marine life at Xunliao, Oceania Point Resort, in Guangdong Province, Peoples Republic of China. The event marked the government's seasonal closure prohibiting the use of certain fishing gear in the South China Sea, including Guangdong Province. Thirty-four of the turtles released were from fishery by-catch turned in to the authorities by fishermen. These turtles ranged up to 99 cm carapace length and included 33 green turtles and one loggerhead all obtained from the coastal waters of Guangdong Province, such as Daya Bay. In addition, 100 others were captive-reared green turtles estimated to be 45cm carapace length. All turtles appeared to be healthy, active, and in excellent body condition. This presentation explores and photographically illustrates some of the unique aspects of China's spectacular sea turtle release phenomenon, as witnessed at Xunliao. Ideas are set forth for the possibility of enhanced conservation study involving both cultural and biological science perspectives. The Peoples Republic of China has vigorous and growing sea turtle conservation and research programs that deserve praise and partnership to improve the status of regional stocks.

# Budget FY98 - FY12



Fiscal Year
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012

Fiscal Year	Budget	Labor	JIMAR	Other
1998	\$611,492	\$111,300	\$120,000	\$380,192
1999	\$735,624	\$182,553	\$123,652	\$429,419
2000	\$700,482	\$260,000	\$160,000	\$280,482
2001	\$523,500	\$216,425	\$105,000	\$202,075
2002	\$655,700	\$127,600	\$307,100	\$221,000
2003	\$737,500	\$188,265	\$141,000	\$408,235
2004	\$807,710	\$173,353	\$226,000	\$408,357
2005	\$891,000	\$183,777	\$265,000	\$442,223
2006	\$851,000	\$205,509	\$250,000	\$395,491
2007	\$851,000	\$248,267	\$255,000	\$347,733
2008	\$860,000	\$265,715	\$260,000	\$334,285
2009	\$867,000	\$311,444	\$255,000	\$300,556
2010	\$931,894	\$399,866	\$240,000	\$292,028
2011	\$713,296	\$402,073	\$207,361	\$103,862
2012	\$788,061	\$409,279	\$243,000	\$135,782

SPECIAL NATURE

SEP 98

MTSG Pacific Islands MTSG REGIONAL VICE CHAIR  
for PACIFIC ISLANDS

TOO SIMILAR  
 VS "PIR"  
 of NOAA

see p. 99  
 see p. 127

- MTSG website -
- 1 List NATIONS/Territories
  - 2 MAP WITH LINES/DEMARCATION/Borders
  - 3 LIST of MEMBER NAMES WITH Residency
- NEED "VISION"

ARRAY of Membership Representation

see  
 ISTS  
 p. 191

- DISCIPLINE EXPERTISE
- ISLAND NATION AND Residency (location of work) ACTIVITY
  - Regional needs ENVISIONED (BY ME)
  - INTEREST, willingness, ABILITY TO BE ENGAGED,
  - COMMUNICATION NATURE
  - COMMITMENT TO FULFILL MTSO MISSIONS
  - SUSTAINABLE USE
  - LANGUAGES(S) SPOKEN - FRENCH/ENGLISH
  - STRENGTHENING OF ISLAND CULTURE THROUGH AND FOR TURTLES AND PEOPLE
  - EXCHANGE ENHANCE INTEGRATION OF THIERRY WORK  
 ENGLISH AND FRENCH SPEAKING

Fiji/FRENCH POLYNESIA/NEW CALEDONIA  
 /LUI BELL 1956-2012

- OTHER REGIONS?
- ① STRENGTHENING ② RESHAPING ③ BUILDING
- SIZE of Group - Pros/cons of SMALL VS Large vs "medium"

HAWAII  
 AUSTRALIA  
 1. C  
 2. I  
 3. E  
 4. M  
 5. E  
 6. I  
 7. M  
 8. S  
 9. I  
 10.  
 11.  
 12.  
 13.  
 14.  
 15.  
 16.  
 17.  
 18.

HAWAII - 8      COOK IS. - 1      French POLYNESIA - 2      N=18  
 AUSTRALIA - 4      SOLOMON - 1      SAMOA - 1

NEW CALEDONIA - 1

"iSoft" (121)

PRESENT MEMBERSHIP

CONVERSANT  
 ENGLISH/FRENCH

• USA PIN •

1. George BALAZS<sup>(H)</sup>
2. THIERRY WORK<sup>(H)</sup>
3. BRIAN BOWEN<sup>(H)</sup>
4. MARC RICE<sup>(H)</sup>
5. ERIC L. GILMAN<sup>(H)</sup>
6. IRENE KELLY<sup>(H)</sup>
7. MIKE McCOY<sup>(H)</sup>
8. STACY HARGROVE<sup>(H)(F)</sup>
9. MILANI CHALOUPEK<sup>A</sup>
10. KIRSTIN DOBBS<sup>A</sup>
11. RICHARD REINA<sup>A</sup>
12. JEFFREY KINCH<sup>A</sup>
13. MICHAEL WHITE<sup>COOK</sup>
14. JOHN PITA<sup>SOLOMON</sup>
15. RICHARD FARMAN<sup>NC</sup>
16. CECILE GASPARD<sup>FP</sup>
17. MIRI TATARATA<sup>FP</sup>
18. ANNE TREVOR<sup>SAMOA</sup>

"The MTSG character"

Good Reason for name =

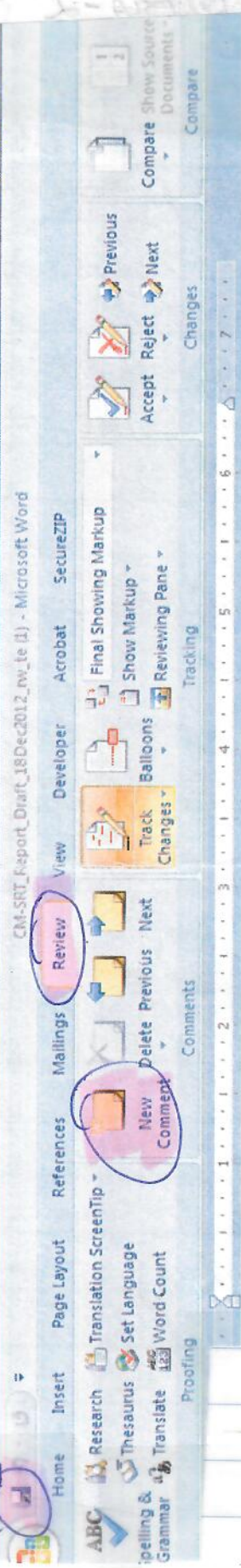
Km<sup>2</sup> / Miles<sup>2</sup> of  
 Ocean Spread =

"Countries" represented 6 of 24

LUI BELL (1956-2012)<sup>SAMOA</sup>  
 KAZUO HORIKOSHI (OGASAWARA)<sup>JP</sup>

Make open file w/ word changes as necessary

When done, click on disk to "Save As", then add your initials to end of filename



### Meeting summary:

The first meeting of the green turtle Scientific Status Review Team (SRT) was co-chaired by Jeff Seminoff (Team Chair) and Susan Pultz (Team Liaison) through grant funding from [XXXX]. The SRT meeting was a two and a half-day meeting designed to address a petition received requesting that the Hawaii green turtle population be listed as distinct and also be delisted. The accomplished goals of the first meeting of the SRT were to: (1) compile the most up-to-date population status information on green turtles; (2) clarify genetic differences between the populations; and (3) identify putative distinct population segments for green turtles globally.

**Comment [CDA1]:** This needs to be scrutinized

So - I don't think we need a meeting summary.

**Comment [TE2]:** The title says "status review". Should be consistent.

ADDRESSED

**Comment [CDA3]:** Please provide this info if we in fact received funding.

**Comment [RW4]:** Add a sentence explaining which goals were accomplished.

### Items included in this report:

Meeting Participants.....	Page 3
Meeting Minutes.....	Page 4
Appendix A: Map of Provisional Green Turtle Distinct Population Segments.....	Page 27
Appendix B - Putative DPSs: their discreteness/significance, nesting index sites, and comparison to Wallace et al. (2010) RMUs and Jensen et al. (in prep).....	Page 28

TRACK CHANGE





123



# WARMEST HOLIDAY WISHES

The Hargrove Family  
John, Stacy, Lucille and Jolena



Stacy A. Hargrove  
14040 SW 72nd Ave.  
Palmetto Bay, FL 33158-1357

# 70 Percent of Beaches Eroding on Hawaiian Islands Kauai, Oahu, and Maui

Released: 5/7/2012 3:00:00 PM

## Contact Information:

U.S. Department of the Interior, U.S. Geological Survey  
Office of Communications and Publishing  
12201 Sunrise Valley Dr, MS 119  
Reston, VA 20192

Charles (Chip) Fletcher, UH  
Phone: (808) 956-9513

Bruce Richmond, USGS  
Phone: (831) 460-7531

In partnership with: School of Ocean and Earth Science and Technology at UH

**HONOLULU** — An assessment of coastal change over the past century has found 70 percent of beaches on the islands of Kaua'i, O'ahu, and Maui are undergoing long-term erosion, according to a U.S. Geological Survey and University of Hawai'i report released today.

Like

Scientists from the USGS and the School of Ocean and Earth Science and Technology at UH studied more than (#) 150 miles of island coastline (essentially every beach) and found the average rate of coastal change – taking into account beaches that are both eroding and accreting – was 0.4 feet of erosion per year from the early 1900s to 352000s. Of those beaches eroding, the most extreme case was nearly 6 feet per year near Kualoa Point, East O'ahu.

Tweet

The inevitable fate of the Hawaiian Islands millions of years into the future is seen to the northwest in the (#) spires of French Frigate Shoals and the remnants of other once mighty islands, ancestors of today's Hawaii, but now sunken beneath the sea through the forces of waves, rivers, and the slow subsidence of the seafloor," explained USGS Director Marcia McNutt.

"These data have allowed State and County agencies in Hawaii to account for shoreline change as early as possible in the planning and development process so that coastal communities and public infrastructure can be (#) sited safely away from erosion hazards areas," said William J. Aila Jr., Chairperson, Department of Land and Natural Resources, State of Hawaii. "This will vastly improve upon public safety and will ensure that Hawaii's (#) beautiful beaches will be protected from inappropriate shoreline development."

Of the three islands, Maui beaches experienced the highest rates and greatest extent of beach erosion with 85% of beaches eroding. Erosion is the dominant trend of coastal change on all three islands with 71% of beaches eroding on Kauai and 60% of beaches eroding on O'ahu.

The researchers found that, although Hawaii beaches are dominated by erosion as a whole, coastal change is highly variable along the shore – with 'cells' of erosion and accretion typically separated by 100s of feet on continuous beaches or by rocky headlands that divide the coast into many small embayments. Most Hawaii beaches are composed of a mix of sediment derived from adjacent reefs and from the volcanic rock of the islands. Sediment availability and transport are important factors in shoreline change, and human interference in natural processes appears to have impacted the rates of change. For example, more than 13 miles of beaches in the study were completely lost to erosion – nearly all previously in front of seawalls.

"Over a century of building along the Hawaiian shoreline, without this sort of detailed knowledge about shoreline change, has led to some development that is located too close to the ocean," said Dr. Charles Fletcher,

release:

UH Ge  
and hur

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Rob Th

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the U.S.  
(http://pub  
being re

Release: 70 Percent of Beaches Eroding on Hawaiian Islands Kauai, Oahu, and Ma... Page 2 of

UH Geology and Geophysics Professor and lead author. "A better understanding of historical shoreline change and human responses to erosion may improve our ability to avoid erosion hazards in the future."

The researchers used historical data sources such as maps and aerial photographs to measure shoreline change at more than 12,000 locations. Shoreline changes are measured in specialized Geographic Information System software.

This analysis of past and present trends of shoreline movement is designed to allow for future repeatable analyses of shoreline movement, coastal erosion, and land loss. "The results of this research provide critical coastal change information that can be used to inform a wide variety of coastal management decisions," said Dr. Rob Thieler, sponsor of the study with the USGS.

The research was also supported by grants from a number of federal, state, and county agencies as well as non-profit organizations. The report, titled "National Assessment of Shoreline Change: Historical Shoreline Change in the Hawaiian Islands (<http://pubs.usgs.gov/of/2011/1051/>)," is the sixth report produced as part of the USGS's National Assessment of Shoreline Change project (<http://coastal.er.usgs.gov/shoreline-change/>), which already includes the U.S. Gulf of Mexico and Atlantic coasts, as well as California. An accompanying report (<http://pubs.usgs.gov/of/2011/1009/>) that provides the GIS data used to conduct the Hawaii coastal change analysis is being released simultaneously.

# CLIMATE CHANGE

and the California Desert Conference

**featuring**  
**Dr. Cameron Barrows**  
(Center for Conservation Biology) on the implications of climate change for desert tortoises and other reptiles

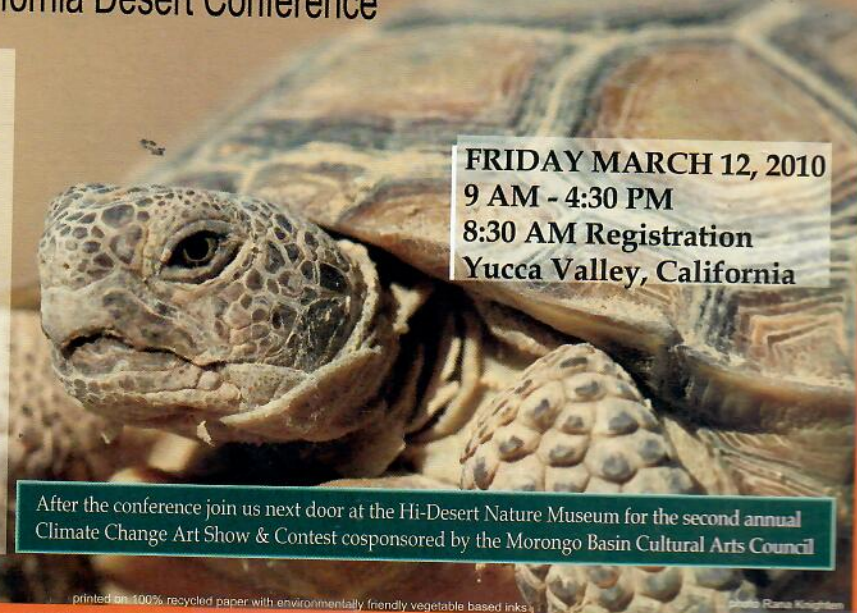
**Dr. Deborah Hughson**  
(National Park Service) on the crucial link between climate change, desert water sources and the wildlife that needs springs.

**Dr. Lori Hargrove**  
(Researcher at the San Diego Museum of Natural History) on the future of desert birds in the face of climate change.

**Jim Ferguson**  
(Mayor Pro Tem of Palm Desert) on how to tap into funding for rooftop solar.

**FRIDAY MARCH 12, 2010**  
**9 AM - 4:30 PM**  
**8:30 AM Registration**  
**Yucca Valley, California**

After the conference join us next door at the Hi-Desert Nature Museum for the **second annual Climate Change Art Show & Contest** cosponsored by the **Morongo Basin Cultural Arts Council**



printed on 100% recycled paper with environmentally friendly vegetable based inks

SE ASIA 11 COUNTRIES = 610,000,000 People

2012 HOLIDAY 4 Koshi MATSUZAWA

1999 - 2009 French & English  
SP Communities, total  
Pacific



謹賀新年

本年もよろしくお願ひ申し上げます  
平成二十五年 元旦

〒573-0163 枚方市長尾元町6-7-1-203  
松沢 慶将 真知子 希実 望咲

- 1) Samoa - 57,291
  - 2) Cook Islands 19,569
  - 3) FSM 107,008
  - 4) FIJI 837,271
  - 5) French Polynesia 59,706
  - 6) GUAM 154,805
  - 7) KIRIBATI 92,533
  - 8) RMI Marshall Islands 50,840
  - 9) NAURU 9,233
  - 10) New Caledonia 245,580
  - 11) NIUE 1,625
  - 12) N. MARIANA 69,221
  - 13) PALAU 2012 19,907
  - 14) PNG 5,190,786
  - 15) PITCAIRN 66
  - 16) SAMOA 180,741
  - 17) Solomon Is. 409,042
  - 18) TOKELAU 1,151
  - 19) TONGA 101,991
  - 20) TUVALU 9,561
  - 21) VANUATU 186,678
  - 22) Wallis & Futuna 13,415
- 23) NEW ZEALAND 4,451,000
- 2 locations w/o PNG 2,827,264
- TERRITORIES 23 w/o PNG

EAST ASIA = 1998 CHINA 1.331Billion (TAIWAN 23M)  
JAPAN 127.5 Million people

INDIA 1.210B  
KOREA - South - 48.6M  
North - 24.5M

2011 Hawaii - 1,374,810

OCEANIA 23 NEW ZEALAND  
WAKE PALMYRA - HOWLANDS - BAKER - JARVIS

FLAGS OF ALL NATIONS  
NUMBER OF ISLANDS -

345  
566

902  
675

1/24/13

See P. 98 "ATTRIBUTES OF MEMBERSHIP ARRAY" - MTSG PACIFIC ISLANDS

(127)

"PACIFIC PEOPLES" ISLANDS of MTSG Oceania Region  
MTSG "REGIONS" N=11 change

1. AUSTRALASIA
2. EAST AFRICA/WEST INDIAN OCEAN
3. EAST ASIA
4. EAST PACIFIC
5. MEDITERRANEAN
6. NORTH ATLANTIC
7. PACIFIC ISLANDS <sup>population</sup>
8. SOUTH ASIA
9. SOUTH WEST ATLANTIC
10. WEST AFRICA/EAST ATLANTIC
11. WIDER CARIBBEAN <sup>population</sup>

1579  
523

345  
566

CIA web data the world Factbook + world population review website

(24) POPULATION - JAPAN 128M • CHINA - 1,317M

(13) TAIWAN - 23.3M (HAINAN - 7.9M <sup>included</sup>)

N. Korea 24.6M • S. Korea 50M • Russia - 143M

VLADIVOSTOK - PRIMORYE MARITIME TERRITORY 2M

902  
675

DAYA Bay 92 km coastline

CHINA coastline - 14,500 km or 9,016 miles

HAINAN = 8,672<sup>00</sup> million people ~ 8.7 million

COASTLINE 1,800 km (TAIWAN - 23.3M coast - 1,550km)

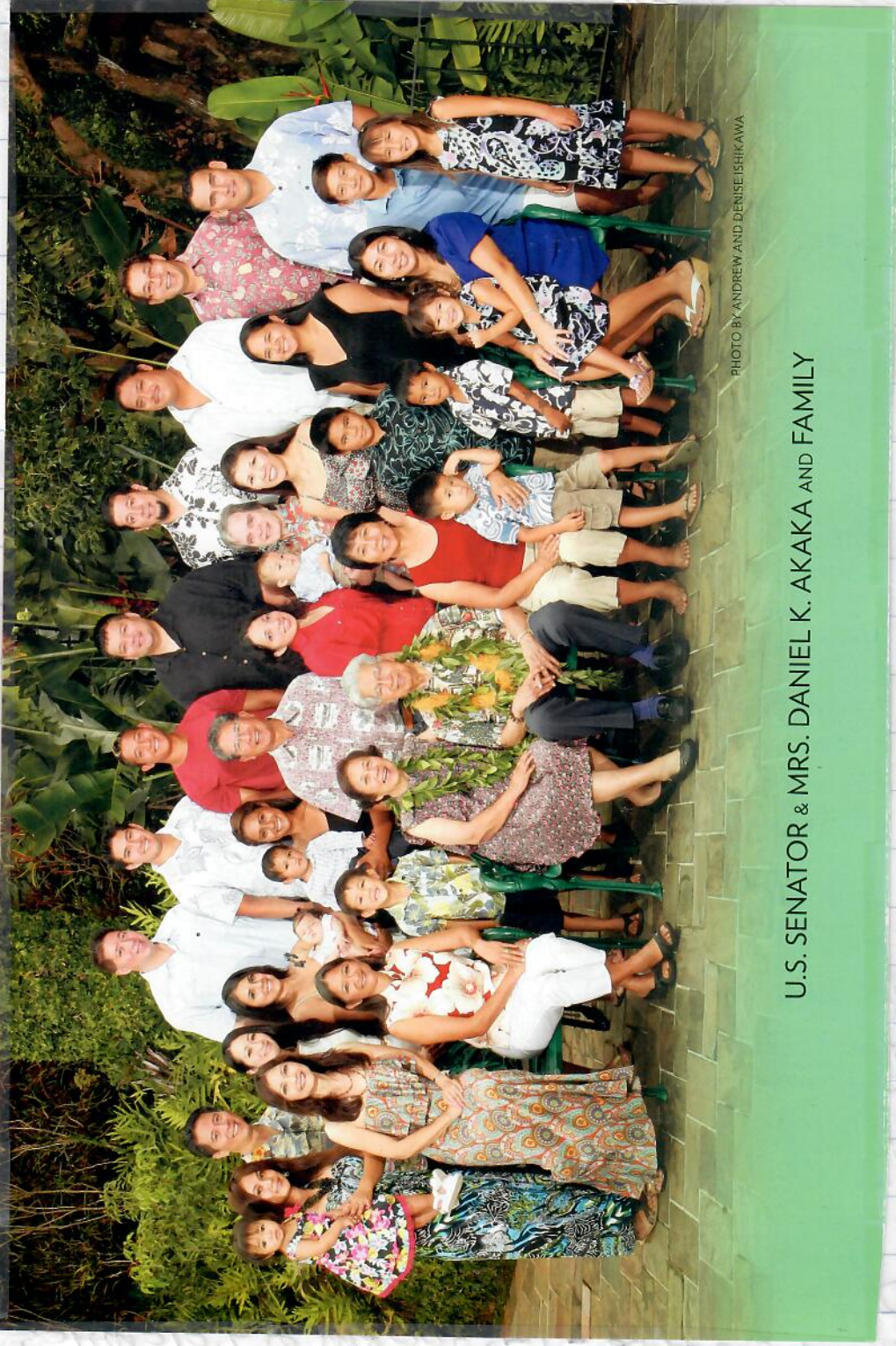


PHOTO BY ANDREW AND DENISE ISHIKAWA

U.S. SENATOR & MRS. DANIEL K. AKAKA AND FAMILY

ATTAIBUTES OF PACIFIC ISLANDS

1971

During this holiday season, we extend  
our heartfelt gratitude and sincere appreciation  
to you for your love and friendship  
throughout the years.

We wish you and your family a joyous holiday  
filled with much warmth and happiness.

May you be blessed with good health and prosperity in 2013.

*Hauoli Makahiki Hou!*



# Marine Turtle Specialist Group

Species Survival Commission / IUCN-The International Union for Conservation of Nature

November 8, 2012

Dr. George Balazs  
NMFS, 2570 Dole Street  
Honolulu, Hawaii 96822-2396, USA

### CO-CHAIRS

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### PROGRAM OFFICER

**Brian J. Hutchinson**

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11921 Escalante Ct  
Reston, VA 20191, USA  
phone +1-202-246-4768  
hutchinson@oceanicsociety.org

Dear George:

We cordially invite you to serve for the next four years as MTSG Regional Vice Chair for the Pacific Islands Region.

IUCN convenes a World Conservation Congress every four years to review the status of its activities worldwide, and to plan for the future. The Congress also marks the beginning of the important process to appoint Commission and Specialist Group Chairs and to renew membership of all the Specialist Groups. At the World Conservation Congress in Jeju, Korea this past September, Dr. Simon Stuart was re-appointed Chair of the Species Survival Commission, and he subsequently invited the two of us to serve another quadrennium as Co-Chairs of the MTSG, an honor we are pleased to accept. We have in turn invited Brian Hutchinson to continue in his role as Program Officer, and have also asked Bryan Wallace to serve as Red List Focal Point for our group.

The MTSG Regional Vice Chairs play an extremely important role as our main link to the members, our eyes and ears in the regions, and the main MTSG spokespeople on the ground. We have developed Terms of Reference that clearly outline the roles and responsibilities of the Vice Chairs, such that it is fully understood what is expected when accepting this position. We ask you to carefully review these Terms of Reference, which are attached, and to notify us at your soonest convenience whether you choose to accept this role and its responsibilities.

Re-establishing your region's membership will be your first important duty, and we will send your current regional member roster once we have received word of your acceptance.

We want to take this opportunity to recognize your past service in pursuit of sea turtle conservation, and to thank you in advance for your commitment to apply your skills and knowledge as a Regional Vice Chair in the MTSG. We look forward to working with you, George, and to assuring a safe and healthy future for the sea turtles of the world and their habitats.

Best Regards,

Roderic Mast and Nick Pilcher  
MTSG Co-Chairs

From: MTSG  
Date: Fri, Dec  
Subject: Invitat  
To: George.Bal  
Cc: Nicolas Pil

Dear George,

Given your past  
from Milani and  
the Pacific Islan  
respond at your

Best wishes,

Rod & Nick  
MTSG Co-Chairs



## Regional Vice Chair Roles and Activities

131

It is understood that these are voluntary posts in the MTSG. However, accepting an invitation for Regional Vice Chair indicates a willingness to undertake an amount of effort on behalf of the MTSG, often significantly greater than that provided by the regular membership. While all Regional Vice Chairs may not be able to undertake and be responsible for each and every one of the actions listed below at all times, each is expected to contribute in a substantial way to the overall objectives of the group. Over and above the requirements made of a regular MTSG Member, Regional Vice Chairs of the MTSG are expected to:

- 1) Identify research, management, and conservation priorities for marine turtles and their habitats specific to each region, and make these known and available to the MTSG Co-Chairs for inclusion in status assessments, conservation action plans, or other instruments and publications. This includes contributions to and participation in the MTSG's Burning Issues assessment process.
- 2) Facilitate coordination and cooperation in conservation-related research on marine turtles at a regional level involving a wide spectrum of stakeholders.
- 3) Where relevant and required regional coverage and expertise is not already within the MTSG, or where greater and more balanced representation is needed, assist the Chairs and Program Officer in nominating and inviting the appropriate nominees to become Members.
- 4) Enhance and facilitate communication within the MTSG, particularly within each Region, as well as providing information on regional activities, programs and conservation issues to the wider MTSG.
- 5) Communicate regularly (at the very least quarterly) with the MTSG Co-Chairs providing updates and progress of regional activities and/or deliberations, and provide periodic updates to the regular MTSG Members on regional developments.
- 6) Provide an annual report on regional issues of importance and MTSG activities and progress to the broader MTSG membership at the Annual General Meeting.
- 7) Encourage the active participation of regional members in broader MTSG activities including Burning Issues assessments, Red List Assessments, relevant white papers and online discussions.
- 8) Ensure that the Co-Chairs and Program Officer are aware of issues of regional importance to the conservation of marine turtles, either internal or external to the MTSG.

From: **MTSG Co-Chairs** <[mtsg.chairs@gmail.com](mailto:mtsg.chairs@gmail.com)>

Date: Fri, Dec 21, 2012 at 5:10 AM

Subject: Invitation to serve as MTSG Regional Vice Chair 2012-2016

To: [George.Balazs@noaa.gov](mailto:George.Balazs@noaa.gov)

Cc: Nicolas Pilcher <[npilcher@mrf-asia.org](mailto:npilcher@mrf-asia.org)>

Dear George,

Given your past experience in this role, your well-established connections in the region, and the strong support from Milani and others recently, we cordially invite you to serve once again as MTSG Regional Vice Co-Chair for the Pacific Islands region for the next four years. Please review the attached letter and terms of reference, and respond at your soonest convenience.

Best wishes,

Rod & Nick  
MTSG Co-Chairs

(12)

## Regional Vice-Chair Terms of Reference

The following guidelines are provided to ensure that Regional Vice-Chairs understand the overriding vision, mission and objectives of the Marine Turtle Specialist Group, and the way in which these posts are responsible for coordinating Members' input and activities in fulfillment of the MTSG goals, as set forth in the Members' Terms of Reference.

### MTSG Vision

We envision marine turtles fulfilling their ecological roles on a healthy planet where all peoples value and celebrate their continued survival.

### MTSG Mission

To develop and support strategies, set priorities, and provide tools that promote and guide the conservation of marine turtles, and their ecological roles and habitats. We accomplish this by:

1. Providing advice and practical support to those who manage and conserve marine turtles and their habitats;
2. Promoting, using and synthesizing the best multidisciplinary science and information and innovative approaches;
3. Ensuring that conservation planning and actions are guided by the biological constraints of marine turtles such as delayed maturity, long distance migrations and dependence on multiple habitats;
4. Building and promoting diverse and dynamic partnerships among stakeholders including local communities to ensure effective networking and synergy;
5. Promoting universal appreciation of the values of marine turtles and their habitats through varied means to diverse peoples of different backgrounds and cultures;
6. Building capacity to educate, inspire, and empower people to conserve marine turtles and their habitats;
7. Recognizing that marine turtles are a shared international resource;
8. Promoting conservation and population monitoring efforts that are long-term in nature and anticipate changes in environmental, social and political climates;
9. Integrating local, national, and international conservation efforts;
10. Recognizing that marine turtle conservation is integrally linked to broader conservation issues.

### MTSG Objectives

1. To assess the conservation status of and threats to marine turtle species and their habitats.
2. To provide and improve technical information and advice on the conservation of marine turtles and their habitats to the various stakeholders involved:
  - a) government conservation and/or management agencies;
  - b) national and international non-governmental conservation organizations;
  - c) inter-governmental research, management, conservation agencies and organizations;
  - d) fisheries organizations (local, national, regional and international);
  - e) industry (tourism, seafood, construction, oil and gas, etc.);
  - f) people and communities affected by or otherwise linked to turtle populations and their habitats;
  - g) other organizations as appropriate.
3. To integrate all MTSG efforts with the various stakeholders while:
  - a) emphasizing the fact that marine turtles are a shared international resource and that collaboration and management for long-term survival is required;
  - b) involving local communities in conservation management, as well as the integration of local, regional, national and international efforts will be encouraged;
  - c) making special efforts to produce outputs in a format that are accessible to and effectively

meet the needs of the different parties.

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4. To promote, catalyze and document conservation activities on behalf of the world's marine turtles and their habitats.
  5. To ensure that the conservation of marine turtles is guided by the knowledge of the biological constraints of the animals and the best scientific information available.
  6. To undertake research, conservation, management, and education activities in fulfillment of our mission.
- 
1. The membership policy for the MTSG is focused on nurturing an active, widely skilled and globally or/and regionally representative group of members fully supportive of the mission and activities of the group, based on their relevant and direct expertise in diverse aspects of marine turtle research, conservation, management, and / or education. Vice Chairs are responsible for assisting the MTSG leaders in ensuring that the MTSG is well represented geographically and thematically. It is the duty of the Regional Vice Chairs to ensure suitable candidates from within their geographical sphere of responsibility are represented in the MTSG.
  - 2) Individuals are appointed to the Marine Turtle Specialist Group either:
    - i) by being recommended for membership by at least two members of the MTSG network and approved by the relevant Regional Vice-Chair(s) and Co-Chairs, or
    - ii) by submitting a description of their activities relevant to marine turtles and the reasons they wish to become a member of the MTSG to the MTSG Program Officer or Chair(s). The applications will be reviewed by the Chair(s) and relevant advisors.
    - iii) Individuals are appointed as Regional Vice Chairs at the discretion of the MTSG Chair(s).
  - 3) Member appointments are on a four year cycle. Every four years, all SSC specialist groups are dissolved and members are re-appointed. This reappointment at each quadrennium provides an opportunity to remove inactive members from the specialist groups and address regional imbalances (among and within regions) in the membership. The failure to renew appointments should not be assumed to be criticism but may simply reflect current needs of the MTSG, stemming from logistic constraints, the need for regional, topical and other types of balance. It should not be assumed that continued appointment is automatic, and those who no longer maintain an active role as detailed under the "Members' Role and Activities" may be dropped from the membership at the discretion of the Chair(s). Regional Vice Chairs will be appointed on the same four year cycle as the normal members.
  - 4) Members will not be re-appointed to the group:
    - i) if they do not respond to their letter of invitation within three (3) months, or
    - ii) if they have not communicated with the Chair(s) or Program Officer or their appointees during the preceding quadrennium.
    - iii) Regional Vice Chairs will not be reappointed if they do not make reasonable efforts to fulfill the Roles and Activities of their respective posts during the preceding quadrennium, or in the event that the regional designations are revised.
  - 5) Diversity in experience and capacity with different topics and disciplines will also be sought. Given that marine turtle conservation requires the convergence / cooperation / integration of multiple fields of expertise, representation / active participation of specialists from fields other than biology will also be encouraged and sought. Persons from these fields can include representatives with proven time, experience and capacity dedicated to the conservation of marine turtles and their habitats, stemming from governmental, non-governmental, international, grassroots, and funding sectors as well.
  - 6) Members are advised that their comments and actions when representing the MTSG should be consistent with the IUCN mission, details of which can be sought from <http://www.iucn.org/ssc/>. Members are authorized to comment or act on behalf of the MTSG only when officially representing the MTSG with prior approval of the Co-Chairs.

## In loving memory of Lui Bell



This page is dedicated to the memory of Lui Bell, colleague and friend.

Sunrise: 24 February 1956 - Sunset: 29 November 2012

Lui joined SPREP in October 2005 as the Marine Species Officer. At the time of his death, he was working as the Marine Species Adviser with the Biodiversity & Ecosystem Management Division.

Lui was an outstanding person in every respect. He was one of those rare people who could relate to everyone, whether a village community or the heads of international conventions, and achieve positive outcomes through his interaction with them. Lui was a deeply committed conservationist and he leaves a legacy of many achievements. His professionalism, joviality and team spirit will be greatly missed.

Before joining SPREP Lui had a long career with the Government of Samoa, working on fisheries, aquaculture and marine conservation; with the Forum Fisheries Agency; FAO; and for AusAID as an aquaculture adviser.

During his seven years with SPREP, first as Marine Species Officer and then Adviser, Lui had many outstanding achievements that have made lasting contributions to conservation of marine species in the region. Many of these achievements were made with limited resources and Lui was a master at making ends meet and still achieving major outcomes for his programme. In recognition of his contributions to SPREP and the region Lui was appointed Marine Species Adviser in 2011. Notable examples of achievements include:

Development and implementation of regional Marine Species Action Plans that provide guidance for Pacific island countries to conserve and manage dugongs, whales, dolphins and marine turtles. The latest version of these plans, for 2013-2017, are currently being released and will remain one of Lui's most important legacies.

Conservation of whales and dolphins was a passion for Lui. He was the driving force behind the development of the Memorandum of Understanding for the Conservation of Cetaceans and their Habitats in the Pacific Islands Region, under the Convention on Migratory Species. This important MoU now has 15 country signatories and seven collaborating organisations. Lui also designed and implemented whale watching guidelines to support Tonga's ecotourism economy.

His work on turtle conservation was outstanding and he was responsible for developing and implementing ground-breaking approaches for the monitoring turtle migration in the Pacific using satellite and static metal tags. The information obtained as a result of his work has significantly improved our understanding of migration paths of these iconic species in the region. Lui had just commenced working with New Zealand Department of Conservation on a regional turtle and ecotourism project.

Lui excelled at establishing productive partnerships with a range of organisations to achieve regional marine conservation objectives, including the Convention on Migratory Species (CMS), NOAA, IFAW, Conservation International and many others. Thanks to his skill at engaging partners SPREP to support our regional conservation efforts now hosts a CMS Pacific Officer position.

There is much more that can be said about Lui's contributions to marine conservation in the region, these are a few examples. Lui was a true champion and his parting leaves a void that will be difficult to fill.

He is survived by his wife Anunisia Siilia Bell and five children who are all based in Samoa.

# Oahu Beachfront Retreats – Punaluu



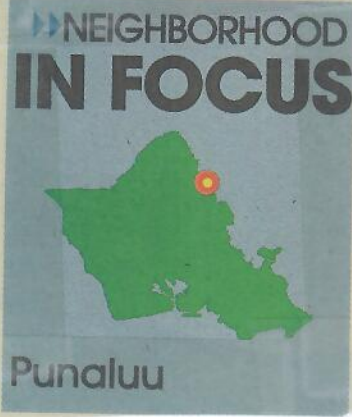
Punaluu beach with turtle.

## Windward

*First in a series*

One of the most scenically varied and dramatically beautiful coastal regions in the Hawaiian Islands, Windward Oahu embraces long stretches of white sand beach washed by turquoise waters and backed by the vertical, forested cliffs of the Koolaus. Along the approximately 50 mile coast between Makapuu Point and Kahuku are beaches rated as some of the best in the world. Rating a beach is a subjective process, but the basic ingredients are a sandy, rock free shore.

Sunday, 12/16/12 HONOLULU STAR-ADVERTISER 11



...and Wildlife and U.S. Fish and Wildlife Service. He does graphic illustration work as a home business: Hawaiian Bio-Graphics. He has lived in Kaneohe for 40 years.

February 13, 2008

# SHIPS OF OPPORTUNITY

"SHIPS OF OPPORTUNITY: RELEASING SATELLITE-TAGGED  
LOGGERHEADS ON THE HIGH SEAS TO STUDY THEIR PELAGIC  
ECOLOGY IN THE PACIFIC OCEAN"

North Pacific					
Month/Year	Ship	No. of CC released with Sat tag	Size range	Location	
Apr 2003 (1)	Kitakami ✓	7	39.7 - 59.4 SCL	34.643N	140.166E
Nov 2004	Kitakami ✓	26	27.7 - 35.3 SCL	34.867N	140.590E
Sep 2007	Kitakami ✓	25	23.6 - 28.2 SCL	34.867N	140.590E
Nov 2003 (2)	Ishikari ✓	17	26.2 - 56.0 SCL	34.867N	140.233E
Apr 2004	Ishikari ✓	13	25.6 - 64.8 SCL	35.431N	141.122E
Mar 2009	Ishikari ✓	26	32.2 - 37.7 SCL	35.407N	141.447E
Jul 2005 (3)	Nippon Maru ✓	8	39.2 - 47.0 SCL	33.950N	136.900E
May 2005 (4)	Aichi Maru ✓	40	29.6 - 38.4 SCL	32.667N	176.617E
Oct 2006	Aichi Maru ✓	35	23.3 - 30.2 SCL	32.852N	176.832E
Apr 2010	Aichi Maru ✓	29	32.8 - 40.7 SCL	29.684N	130.535E
Jul 2011 (5)	N/A <sup>FLIPPER</sup>	29	34.6 - 71.1 SCL	Boso Peninsula - 35.695N 141.335E	
Jul 2011 (6)	N/A <sup>YOSHIE-MARU</sup>	31	26.5 - 75.2 SCL	Sea of Japan - 36.706N 136.335E	
	Total Number	286	(Largest)		

South Pacific					
Month/Year	Ship	No. of CC released with Sat tag	Size range	Location	
Sep 2008 (7)	La Glorieuse ✓	42	24.0 - 34.3 SCL	29.80S	170.86E
	French Navy				
Sep 2012 (8)	M/V Matisse ✓	46	31.0 - 41.0 CCL	24.98S	163.03E
	Cargo Container				
	Total Number	88			

2003-2012  
N+S =  
N = 374

8 ships of opportunity  
vessels

Journal publications - 8  
DIRECT OR INDIRECT

Days transmitting -

9 YEARS N. Pacific stock  
4 years S. Pacific stock  
45 or  
SPOT 5's  
TELEMETRIES -  
VESSEL PHOTOS

under 45 cm

**Ronald L. Walker**  
46-305 Hoana St.  
Kaneohe, HI 96744  
(808) 235-1681 (land)  
(808) 375-8611 (cell)  
[ronwalker@hawaii.rr.com](mailto:ronwalker@hawaii.rr.com)

**Biography**

Ronald L. Walker retired in 2003 having served in Hawaii as a wildlife biologist, manager and administrator with the State Department of Land and Natural Resources for 37 years and as a fish and wildlife biologist with the Refuges and Ecological Services offices of the U.S. Fish and Wildlife Services for 8 years. His interest in Hawaii's wildlife began as a Hilo High student, counting pheasants for the State on horseback during the summer and hunting sheep on Mauna Kea on weekends. He is graduate of Oregon State University and the U.S. Naval Communications School in Washington D.C. In the 1970s he led the Hawaiian Waterbirds Recovery Team, which produced the first waterbird recovery plan. His work experience includes coordinating programs for public hunting, federal grants-in-aid, capital improvements, land acquisition, information and education, and endangered species restoration. In his early years he lead the mouflon/feral sheep hybridization project on Mauna Kea and State-wide game bird introduction program. He has worked in wetland planning, research and management covering most of the main Hawaiian Islands and joined biological surveys of the Northwestern Hawaiian Islands in the 1960s. He is on the board of directors of the Hawaii Audubon Society, Ahahui Malama I ka Lokahi, and Hawaii Botanical Society. He is an active volunteer with the Nature Conservancy of Hawaii, Kaelepulu Wetland Sanctuary, Na Ala Hele, Hawaii Nature Center, Hanauma Bay Nature Preserve, State Division of Forestry and Wildlife and U.S. Fish and Wildlife Service. He does graphic illustration work as a home business: Hawaiian Bio-Graphics. He has lived in Kaneohe for 40 years.

**February 13, 2008**

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**BOARD OF DIRECTORS: TERMS OF REFERENCE**

ISTS

The Board of Directors is comprised of members of the Society who will work to develop and further the Vision and Mission of the Society.

Board members shall:

- Have a high level of commitment to the ISTS and display this by attending and participating in all meetings, showing a willingness to serve on committees, and taking on a leadership role within the Society.
- Be responsible for the financial security of the Society including the approval of the Symposium budget, membership fees, the disbursement of funds by the Treasurer, and acceptance of the financial reports.
- Appoint Committees and Task Forces as needed to conduct matters associated with the Symposium and the Society in general.
- Oversee the activities of the President, President-Elect, Secretary, Treasurer and associated committees of the Board on behalf of the Society.
- Report on the activities of the Board of Directors to the Society. CHINA REGION

Board members are expected to attend two annual meetings, one during the Sea Turtle Symposium and a mid year meeting normally held during the month of August.

Board members must respect confidential discussions amongst Board of Directors members regarding Board business.

**Sea Turtle Stock Assessment Status Overview and Research Plan**

National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Sea Turtle Assessment Planning Team

October 2012  
REVIEW DRAFT



## ***Pacific Islands Fisheries Science Center***

The Protected Species Division includes two programs that conduct sea turtle research and monitoring. Marine turtle assessments at the PIFSC are conducted by the Marine Turtle Assessment Program (MTAP). The Marine Turtle Research Program (MTRP) also conducts sea turtle monitoring and research, mainly within the Hawaiian archipelago. The Fisheries Research and Monitoring Division (FRMD) investigates fisheries interactions. However, fisheries observer programs are managed by the Pacific Island Regional Office (PIRO), and are, therefore, not included in this report. The PIFSC's programmatic structure for sea turtle research, monitoring, and fisheries interactions is not fixed, and it is likely to change in the near future, due to realignment and/or budgetary changes.

### **Current (FY11) Situation**

MTAP and MTRP conduct research on sea turtle populations in Hawaii and across the PIR. Presently 5 FTE (2 MTAP, 3 MTRP) and 9 contractors (all MTRP, 3 part-time) work on monitoring, assessment, demographics, genetics, and related areas of investigation. In addition, the PIRO observer program employs another 15 FTE and 40+ contractors to observe and document incidental captures, and the Fisheries Interaction and Conservation Program of FRMD employs 1 FTE and 1 contractor to research reducing fisheries interactions and increasing post-interaction survival.

### **Current PIFSC Activities**

**Research** – Annual research tasks include nesting surveys; strandings monitoring, demographic and life history investigations; fishery interactions; satellite biotelemetry; epidemiology; climatic forcing; skeletochronology, physiology and growth; long-term population trends; and threat analyses. Five species of Pacific sea turtles are included in this work: loggerhead, green, hawksbill, leatherback, and olive ridley. Significant collaborations occur with researchers within NMFS, with other government agencies, and with university scientists.

The North Pacific loggerhead and Hawaiian green turtle populations have been the principal focus of investigations to date. Other populations across the PIR have been less studied due to programmatic and logistical constraints. Significant advances are still being made, however. The Western Pacific leatherback and the Hawaiian hawksbill populations are receiving greater research focus. The population structure, migrations, eco-physiology, population threats, and long-term nesting surveys of these populations are currently being researched to advance assessments. Emerging research and partnerships on green and hawksbill populations in American Samoa, Guam, Commonwealth of Northern Mariana Islands, Palau, Federated States of Micronesia, Republic of the Marshall Islands, and the Pacific Remote Island Area ("PRIA," i.e. Howland, Jarvis, etc.) is also developing.

**Assessment Frequency and Quality** – To date, formal stock assessments have only been conducted on North Pacific loggerheads. Several additional formal stock assessments are in development and ecological studies are being prepared to this end. The specific populations, geographic regions, and scientific issues mentioned here are designated as priorities in the 2010 NRC review document on sea turtle assessments.

### **Ongoing and Future PIFSC Activities**

PIFSC is currently designing and implementing Tier II-equivalent and ecosystem-based standards for the North Pacific loggerhead and the Hawaiian green turtle populations. Additionally, in conjunction with colleagues at the SWFSC, MTAP is currently designing and implementing Tier II-equivalent and ecosystem-based standards for western Pacific leatherback populations. The remaining populations in the PIR are having Tier I-equivalent standards being developed and set in place by MTAP. Maintaining

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excellence in existing surveys, adaptively revising sampling methods, and expanding geographically across the PIR is uncertain given the limited current personnel levels and program support. Expansion of research and monitoring efforts to enable assessments of populations throughout the PIR will require additional financial support and some additional staff. Priority sea turtle assessment activities identified by the PIFSC are listed below, and estimates of vessel, aircraft, and staffing requirements to achieve these tasks are available in Table 5 and Appendix II.

#### **PIFSC Priority Activities under SAIP Tier I**

Under Tier I requirements of basic monitoring, the PIFSC will:

- Conduct genetic analysis to determine population distinctions and structure
- Improve performance and efficiency in data gathering, processing, and staffing
- Conduct more extensive analyses on existing data streams

#### **PIFSC Priority Activities under SAIP Tier II**

To achieve standards of Tier II, the PIFSC will need to:

- Extend assessment activities throughout the Hawaiian Archipelago and the PIR, emphasizing; increasing collaborations and partnerships with local agency and university scientists;
- Adaptively revise monitoring techniques for appropriate spatiotemporal resolution; and
- Conduct investigations of historical baselines for population metrics and impacts.

#### **PIFSC Priority Activities under SAIP Tier III**

To achieve an ecosystem-based understanding, the PIFSC will need to:

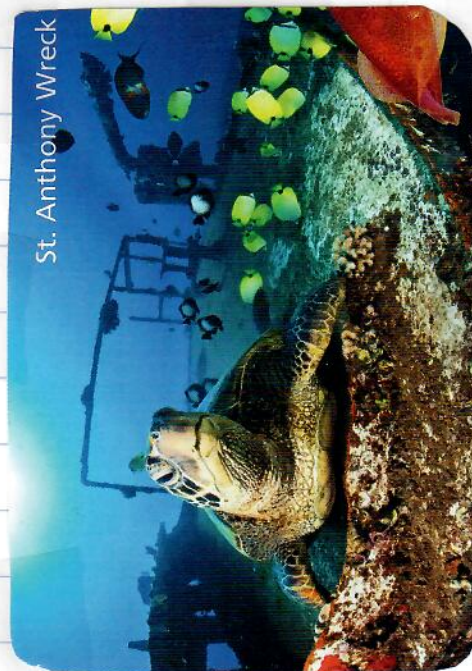
- Develop physiological and resource research to determine habitat and growth rates;
- Investigate climatic processes and their impacts to physical oceanography and ecology; and
- Integrate climate and physiology studies and its contribution to population changes.



**5 Caves:** Off South Maui's Makena Coast, there are 2 lava fingers that extend offshore that are a favorite home to the green sea turtles and also a popular dive spot due to the large schools of fish that can be found here. Believe it or not, the original name to this site was actually "5 Graves", because

of the ancient Hawaiian burial grounds that are on shore, nearby this site. Because the actual dive site does not have any underwater graves or burials, divers renamed the site 5 Caves, due to the numerous fish caves scattered within the lava fingers. These caves make a perfect safe-harbor for multitudes of fish, dozens of turtles and lots of moray eels.

12/12



103	Develop GIS capacity for AS, G, NMI	Enhancing external collaboration and partnerships	3
104	Develop external collaboration and partnerships working with local jurisdictions <i>from Scientific Program activities</i>	Enhancing external collaboration and partnerships	3

ID #:	Activity	Topic	Ther
105	Build scientific partnerships with academic institutions, other countries, etc.	Enhancing external collaboration and partnerships	3
106	Enhance public outreach & media capability: News sharing, web presence and information clearing house, informing constituents	Enhancing external collaboration and partnerships	3
107	Conduct international multilateral and bilateral scientific collaboration (e.g., CTI, SPREP, etc.)	Enhancing external collaboration and partnerships	3
108	Engage in collaboration and outreach - Includes dive training, serving on graduate student committees, mentoring interns, working with international organizations (PICES, SPC, etc.), and collaborations within the Center and NOAA.	Enhancing external collaboration and partnerships	3
109	Enhance community outreach through tours, guest lectures, and similar venues	Enhancing external collaboration and partnerships	3
110	Conduct internship programs for high school and college students (nationally and regionally)	Helping build scientific capacity in the local community and with local academic institutions	3
111	Enhance PIFSC capacity and responsiveness in AS, Guam, CNMI across research programs	Helping build scientific capacity in the local community and with local academic institutions	3
112	Help build scientific capacity in the region through exchanges and technical assistance	Helping build scientific capacity in the local community and with local academic institutions	3

130	Provide scientific advice on ecosystems and oceanography related to conservation and management decision making	Providing timely scientific advice	3
131	Conduct ocean energy research and analysis	Providing timely scientific advice	3
132	Conduct mariculture research and analysis, including environmental effects	Providing timely scientific advice	3

14

ATI

9/9/2012  
N=36 SLP Hatchlings



4C3C5C6808

4C3B516D31



4C3C5E7811



4C3B5C3125



4C3B5E6903



4C3D1C1F04



4C3B485E74



4C3B4A4126



4C3D1F311C



4C3D16415B



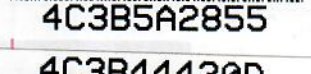
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4C3B426D2E



4C3B443E55

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4C3B41143C



4C3D1D3561



4C3D181D3C



4C3B49512B



4C3B570348



4C3B5F2706



4C3D194C0C



4C3B50572A



4C3C665A0A



4C3B481C39



4C3C5C5D4C



4C3D19221E



4C3B53694C



4C3B545D54



4C3B465866

4C3B3E5A1F



4C3D186273



4C3D140145



4C3D1D1E33



Keyed  
to  
SLP 9/10/12 N75

Xeroxed  
To Shawn

143

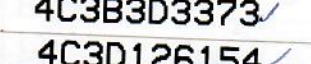
4C3C631F52 ✓



4C3B3D3373 ✓



4C3D126154 ✓



4C3B436920 ✓



4C3C575F5C ✓



4C3B4E423D ✓



4C3B3C1150 ✓



4C3B5E030B ✓



4C3B49284A ✓



4C3B544F1E ✓



4C3B4E0836 ✓



4C3D236C44 ✓



4C3D1C5E5E ✓



4C3B4C2D6B ✓

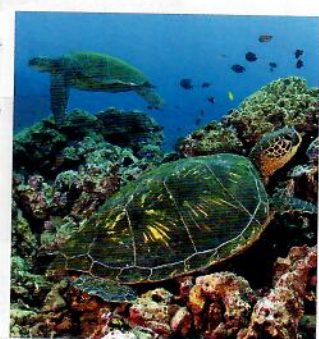


4C3B5D0762 ✓



**Turtle Town:** The jewel of Makena — is this unique turtle habitat! And like the name says... there are dozens and dozens of turtles that have made this coral reef “their town”. There are many areas where turtles live and congregate around Maui, but this one is the most famous, by far. Most

of Maui’s top snorkel charters have been taking passengers to this famous location for over 15 years. I too agree that there is no better spot to see the Hawaiian Green Sea Turtle than right here. Also, something not to be missed, are the underwater arches and ledges of lava that abound.



**Wailea Point:** Directly off Wailea Beach, at the southern end, where the beach meets the rocky coastline, is a spot where dozens of turtles can be found. Because of the large abundance of coral heads and sea grass turtles enjoy plenty of shelter and food here. Always be sure to view from a distance and not harass them as this disrupts their natural behavior patterns.



See our main ad on pages 2-3 in this issue!

**875-0333**

[www.AliiNuiCharters.com](http://www.AliiNuiCharters.com)

SLP Hatchlings  
9-11-12 N=7



4C3C5A3F69



4C3B4E7779



4C3D1C0B60



4C3C5D0D5F

4C3B4F4407



4C3B5B0B55



4C3B4D1A0F

9/7/12 N=28



4C3C5E1E45



4C3D177225



4C3C5D305D



4C3D152914



4C3D187A4B



4C3C581E2E



4C3C5F403E



4C3B3D6479

4C3B4D5230



4C3D16383A



4C3D150A00



4C3D197437



4C3B3B3C53



4C3B5E0E74



4C3B5C470F



4C3C656155



4C3B512952



4C3C6A0729



4C3B5E1907



4C3B4C6A1F



4C3D250704



4C3C617709



4C3C624D75



4C3D25346E

Xeroxed  
To  
Shawn



4C3B5E797D



4C3C670A19



4C3C5D7210



4C3C6A6D21

35  
15  
36  
86

145

4C3C652F44



4C3B587469



10/26/12  
SCL 11.4cm; 260g  
7/28/12 WAIMANALO STRANDING

N=2  
Wild hatchlings NOT SLP BORN  
cared for by SLP Rehab  
QUARANTINE TANK  
Released from DR. Morris fishing boat  
10/26/2012

10/26/12  
SCL 10.1cm; 189grams Makaha 9/9/12 stranding

35

15

36

ADD

86



10/12/2012

Dear Dr. Balazs,

It was kind of you to write to us. Your name is familiar as Ron would share his Hahaione Boy volunteering with us.

The monetary donation will go to the Hawaii Audubon Society where he'd been a member for many years.

Thank you for sharing about Ron. It helps at this time.

Aloha,

Charlotte Walker

Walker

46-305 Hahaione St.

Kaneohe, HI 96744