

ARGOS 6621

343 DAYS
PROJECTED
LIFE

PNIPA



2022 -
2023

x1 808 683 8402
caliber.® 2624
79 BLACK
PAGES

COMPOSITION BOOK
STRETCH JAPAN

GEORGE H. BALAZS, CO-CHAIR
OCEANIA REGION, IUCN/SSC
MARINE TURTLE SPECIALIST GROUP
EMAIL: ITSAPHON@WORLDINHAWAII@
HOTMAIL.COM; CELL. 1808-8838402

BALAZS



WIDE RULED

100 SHEETS

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

090-7039-6837

Kurita
CELL MASABORI



PERIOD	LUNDI LUNES	RM.	MARDI MARTES	RM.	WEDNESDAY MERCREDI MIERCOLES	RM.	THURSDAY JUEVES	RM.
寄件人姓名及地址 Name and address of sender Christy Ng Flat E, 157F, Block 6 Tsing Yi Garden Tsing Yi HONG KONG 電話 Tel: (812) 6224 7780 電郵 e-mail: hungtung5555@gmail.com 寄件人海關編號(如適用) Sender's customs reference (if any)					NANAMI SAITO (7 SEAS)			
6	NAGOYA			NOVEMBER 2022				
7	NAGOYA 2I-			JANUARY 2023				
8								
9	ROWAN CALDER							

387 = 171 DAYS
(PROGRAMMED FOR 343 DAYS)
Bottom of SPOT 6 387

Apply epoxy to tag immediately after removing peel ply.
 Do not touch exposed tag bottom surfaces before attaching.



Mare@rice@gmail.com

VEHICLES
CARRIER

Carreta = 2023

14 GALAXY ACE
IMO 9624/24237

1809 KN FLAGGED
2012 LIBERIA
199M/32M



DEC
25
2012

MR. NOAH YAMAGUCHI ^{USA} KOGUCHI

Japan Guide
Depart NAGOYA JUNE 27 =
PHUQUA
JULY 18 OR 19

Major train lines covered
by the Japan Rail Pass

Shinkansen
Regular Train



Japan Rail Pass (JR Pass)

ISSUED BY

TSA PRECHK

NAME OF PASSENGER (LAST, FIRST, MIDDLE)

BALAZS/GEORGE

FROM HONOLULU

TO OSAKA KANSAI



NOV22

4N /NL HONOLULU

CARRIER FLIGHT CLASS DATE TIME
HA 449 K 13NOV150P

***** GOLD *****

* BOARDING PASS * PREMIUM SEAT/SMOKE

***** 16J NO *****

***** ZONE 2 091 *****

ELECTRONIC

1 173 21 90495563 6

NOTICE: PASSENGERS MUST BE AT THE GATE OR ON THE AIRCRAFT 30 MINUTES PRIOR TO DEPARTURE FOR ALL FLIGHTS.

ISSUED BY

TSA PRECHK

NAME OF PASSENGER (LAST, FIRST, MIDDLE)

ZS/GEORGE

FROM AKA KANSAI

TO NOLULU



20NOV22

SLH /KIX OSAKA KANSAI

CARRIER FLIGHT CLASS DATE TIME
HA 450 K 20NOV845P

***** GOLD *****

* BOARDING PASS * PREMIUM SEAT/SMOK/

***** 17A NO *****

***** ZONE 2 055 *****

ELECTRONIC

2 1 71

NOTICE: PASSENGERS MUST BE AT THE GATE OR ON THE AIRCRAFT 30 MINUTES PRIOR TO DEPARTURE FOR ALL FLIGHTS.



EXTRA Comfort Seats HA

US September 11th Security Fee	\$5.60
US Transportation Tax	\$39.40
USDA APHIS Fee	\$3.96
US Immigration Fee	\$7.00
US Customs Fee	\$6.11
US Passenger Facility Charge	\$4.50

Total Travel Cost: \$1,505.37

Wed 11/16
 AT
 END
 JUST
 vet
 AT
 CARTRINA
 924-040
 ASAKI CORP

BOARDING PASS
 OULU
 TO AZS/GEORGE
 115219970
 FROM HONOLULU
 TO OSAKA KANSAI
 WAIIAN AIRLINES
 CARRIER FLIGHT CLASS DATE TIME
 HA 449 K 13NOV150
 GATE BOARDING TIME SEAT BINC
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 PREMIUM
 ELECTRONIC

BOARDING PASS
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 FROM OSAKA KANSAI
 HONOLULU
 WAIIAN AIRLINES
 CARRIER FLIGHT CLASS DATE TIME
 450 K 20NOV845
 GATE BOARDING TIME SEAT BINC
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 ZONE 2 055
 PREMIUM
 RON

		9:00	10:00	11:00	12:00	13:00	14:00	15:00
16th	your idea				lunch	meeting and discussion		
	my idea		Greeting	Tour	lunch	meeting and discussion		
17th	your idea	self-guided tour			lunch	meeting and discussion		
	my idea	guided tour and check the turtles			lunch	attach the new style satel		
18th	your idea	attach the new style satellite tag			lunch			
	my idea	meeting and discussion			lunch			

中日新聞 編集局社会部

記者 坂本圭佑

Reporter

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ASAHI.COM

- Turtle NAMES
- DISTANCE SPEED STRAIGHT & TOTAL
- EAST VS WEST
- GENDER blood
- FFS over flight

NEAR EEL FARM (?)
HAMAMATSU
NAKAATA JIMAKUEN
BEACH -
Nesting loggerheads

Wed 11/16 & 11/17/2022 Thurs
MISHIMA PRMAN PNPA

AT END JUST before release
Blood? vet care
TURTLE MAN PNPA
MASANORI MORI
going on ship

11
AZARO " CARDENA" Mexico

© need Reinforce for clip pages

GOODY Resin

2016 woman under year
70,000 CNP from CNP SEA

They are what they eat.
Red crab worm water attraction



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飼育展示第一課 課長 (学芸員)



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日本動物園水族館協会

JAPANESE ASSOCIATION OF ZOOS AND AQUARIUMS

Masanori Kurita

Vice-Chairman
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11/17/2022 Thursday

8

How cold is the water they don't want to go through?

How cold/warm is Kuroshio Current?

10 AM arrive

Talk

Swam 2 years classes of turtle

Talk Money Rear^{vs}/travel

1 PM Meet the Press

Turtles go to Mexico - Warm Year:
Cold year they don't - turn AROUND.

Expect more warm years - Climate
change - so more loggerheads
go to BAJA.

Safer in Calif than in CNP ? or?

"Tropical" Turtles

Invest 2021

Invest 2022

~~need~~ Travel
Budget

TROVAN pit

+ Stockbrand Large
+ NBT Inconel

MR. SOICHI - former Director

100 pit tags need

Cameras - for Saito

["We Have a lot of Money"]

If sterilizing tag, ... you
 remove peel ply fabric.
 Apply epoxy to tag immediately a
 removing peel ply.
 Do not touch exposed tag bottom
 surface before attaching.

OVER



公益財団法人名古屋みなと振興財団
 事業部 営業企画課

佐藤 ちづる
 Chizuru SATO ←

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https://www.yamachan.co.jp

世界のミツバチ

Mitsubishi

FROM DANA et al. ANA of 6
 2021 CROWNE PLAZA Reaching
 AN IHG HOTEL HOTEL GRAND COURT NAGOYA BAJA
 Encourage REGION
 Discourage
 4 Reversed Direction
 2 continued $\angle 16.6^\circ$
 $E = > 18^\circ$

Questions -

web site link to ours? ⁺ ~~to separate?~~

81
Talking Points for the STRETCH Goodwill Coordinating Meeting with PNPA & Kochi University Colleagues,
16-18 November 2022.

11/16/22 END 5:05 PM

- Welcome and Self-Introductions- Words of Mutual Appreciation.
- Designation of a notetaker to record significant outcomes during our time together.
- Overview and History of the Stretch Project- by Professor Crowder including 12-min video of Larry's Stretch presentation.
- Update on rearing of cohort Year 1 turtles for 2023 release, and cohort Year 2 turtles for 2024 release. Visit to see the turtles and learn about rearing techniques.
- Update to the extent known on ship schedule for late April/early May 2023 and Japan port of departure. **5 DAY WINDOW - 1 MONTH**
YOKOHAMA 4 HOUR DRIVE LAZARO CARDENA YOK.
- Possibility of holding a 'Bon Voyage' formal send-off "Red Ribbon Cutting" ceremony at PNPA for the Stretch turtles- including banners, publicity and attendance by local officials, MOL officials, school children, news media, and the general public.
- Possibility and/or the need/importance for Kurita, Saito, Crowder, Rice and Balazs together to meet in person with MOL Officials. A courtesy visit to pay respects and express appreciation.
- Ship's Ports of Call in Mexico/Panama Canal and the USA East Coast. **LAZARO CARDENA**
- USA and other Visas for Professor Saito and PNPA person accompany the turtles for release.
- Traveler Health Insurance Coverage for Professor Saito and PNPA person.
- Travel expenses to cover transport to ship, shipboard lodging, hotel lodging East Coast USA, meals and incidentals, and flight home to Japan (to place of residence) for Professor Saito and PNPA person.
- Shipboard internet access and Iridium satellite phone for Professor Saito and PNPA person. **3 HAS A DAY**
- PIT tags/flipper tag(s) for the Stretch turtles.
- Final date/deadline for determining release coordinates for the turtles. **30 DAYS LATE MARCH / LATE APRIL**
- Back-up release plan, should sea conditions not allow opening the door close to sea surface shown in Director Kurita's photo. Ropes, baskets, materials and assembly for lowering and release of the turtles from a higher deck, if it becomes necessary. **3 SHIPS**
- Non-invasive samples from Stretch turtles for genetics by Japanese researchers (Kochi University?)

8-10ml Blood drawn 1 MONTH PRIOR YOSHI - BLOOD INDD (NESIAN)

-Video documentation contracted expert from Japan to accompany Professor Saito and PNPA person; video of rearing of turtles and of tag attachment work; video of egg collection and initial hatching rearing at Kochi University.

-April/May 2023 satellite tag attachment team- students from the Hawaii Preparatory Academy (HPA)- lodging, meals and other coordination, including opportunities for educational group interactions, cross-cultural sessions, with students from the Nagoya area.

-Mapping and map distribution of satellite tracking results- initially every 7-10 days, thereafter once a month. And/or possibility of automated daily map updating for each turtle through state-of-the-art Stretch web site.

-Coordination of public relations educational outreach, including web site development. How best to support each other's plans. Two separate website plans or one?

-ANA All Nippon Airways Turtle Motif passenger planes- possible avenue for additional advertising of Stretch.

-Feasibility of an outside well-ventilated and shaded area to do the attachment of satellite tags.

-Practice attachment of mock satellite tag during the present visit to adapt for different design of the new Spot 387 tag.

-Locally sourced fresh polyester and epoxy resins for practice attachment of a mock satellite tag in preparation for April/May 2023 attachments.

Inventory TAKEN 11/18/22 FRIDAY ^{before} TRIAL ^{Attachment} (24)

50 + 20
40 Stir sticks
20 + 5 Brushes -
9 Cups
3 Plastic cups

1 - Dropper pipette
5 - Rags

1 UV Light + glasses
28 Plastic cups
1 Bastard
Glass cloth
1 roll 1" fine weave
1/4 roll - 2" coarse Tape
2' Carbon cloth
2' - 1/2" Cloth
36 - brushes 1"

Buy double A & AAA batteries
'AA'

1 - Blue Tape
1 - Thermometer
1 - scrub sponge
3 pkts Photo activator
10 - Zipper Bags -
12 - sand paper 1/2 sheet
2 - Box cutters
1 - Pr. Scissors
2. Bk marking pen
4 Scalpels
4 Biopsy punches
2 measuring Tag
1 - Pliers
4 - .5cc cryoviles
2 - Elastomer
2 - 1 Min Epoxy
1 box gloves
2 X 25 City mill Rags

LIST OF ITEMS BEING PROVIDED

ST14 transmitters
Scrubber pad
Putty knife
Cloth towels
Coarse sandpaper
Silicone Elastomer kit
Trash bags
Mixing cups
Stirring sticks
Empty plastic dropper bottles
Scissors
Rubber gloves

Fiberglass cloth kits
"Castro Cigar" cylinder kits
Indelible pen
Card for message on transmitter
Camera (one-time use)

MASK, LOGOS

EYE DROPPER
OR
PIPETTE

Items That Need to be Obtained in Your Country

1. Polyester laminating resin (= marine or surfboard laminating resin)
2. MEK Peroxide catalyst for resin
3. Rubbing alcohol (such as 70% isopropyl)
4. Lumber to construct a turtle holding container
5. Awning for shade and rain protection

ANTI FOULING
PAINT

- PAPER
TOWEL

- IR Thermometer

Resin

11-18-2022

1100-1230h

PNPA

Resin + Cloth-

Ambient

T = 15°C

Resin + cloth + natural light

Resin + UV Light

Time

0 - 15.9

3 - 15.9

5 - 15.2

(No reaction in shaded area)

10" - 5 sec

Time

0 - 15.9°

0:45 - 31.6

2m 30.4

3 ~~2~~m - 23.7

5m 19

Never got above 32°C

5 sec Exposure at 10"

1 min 37°

2m 32.1

1m 31°C

2m 27

— 5 more

37

5 min 29.9

Epoxy		1 min epoxy	PNPA	11-18-22
Time		Thinner coat		5 min epoxy 1st coat
1 min	26°	2 min = 20°		3 m - 21
2 min	57°	2:34 21°		4 m - 21
3 min	44°	3:30 24°		5 m - 27
		4:00 25.2°		6 min - 32°
		4:35 28.9		6.5 - 36°
		5:00 31.9		7.5 - 53°
		5:15 38.4		9 - 34.1
		5:46 41.1		6:20 - 54.9°
		5:53 46.6	7:00 - 47.8	
		6:05 51.8		

ON CARD BOARD
See photos

Supplied By
WC
ON
CARD
BOARD
see
photos

During attachment using UV resin there was
no time that surface temp got above 90°.
Keeping UV flashlight exposure to 6-10 sec
from ~ 8-10 inches deep the reaction slow
& the temperature low. The cure time is still
only, about 10-15 min.

Experimental Attachment

SCL = 30.3 cm

CCW = 24.9 cm

11-18-2022 22°
PNPA 23

1:30 - 23°

3:30 24

6:41 28

Carapace Temp. 22.9°C at start

Mixing Elastomer - 1350 - 1537 finished work

Finished up turtle w/ carbon fiber bumper in front
I think I would like to add a drop or 2 of
MEK to make sure the resin will harden
over time.

During attachment using UV resin there was
no time that surface temp got above 30°C.

Keeping UV Flashlight exposure to ≤ 10 sec
from ~ 8-10 inches keeps the reaction slow
& the temperature low. The "cure" time is still
only about 10-15 min.

28

No. 1 - 2 side pieces

No. 2 - Bow & Stern pieces

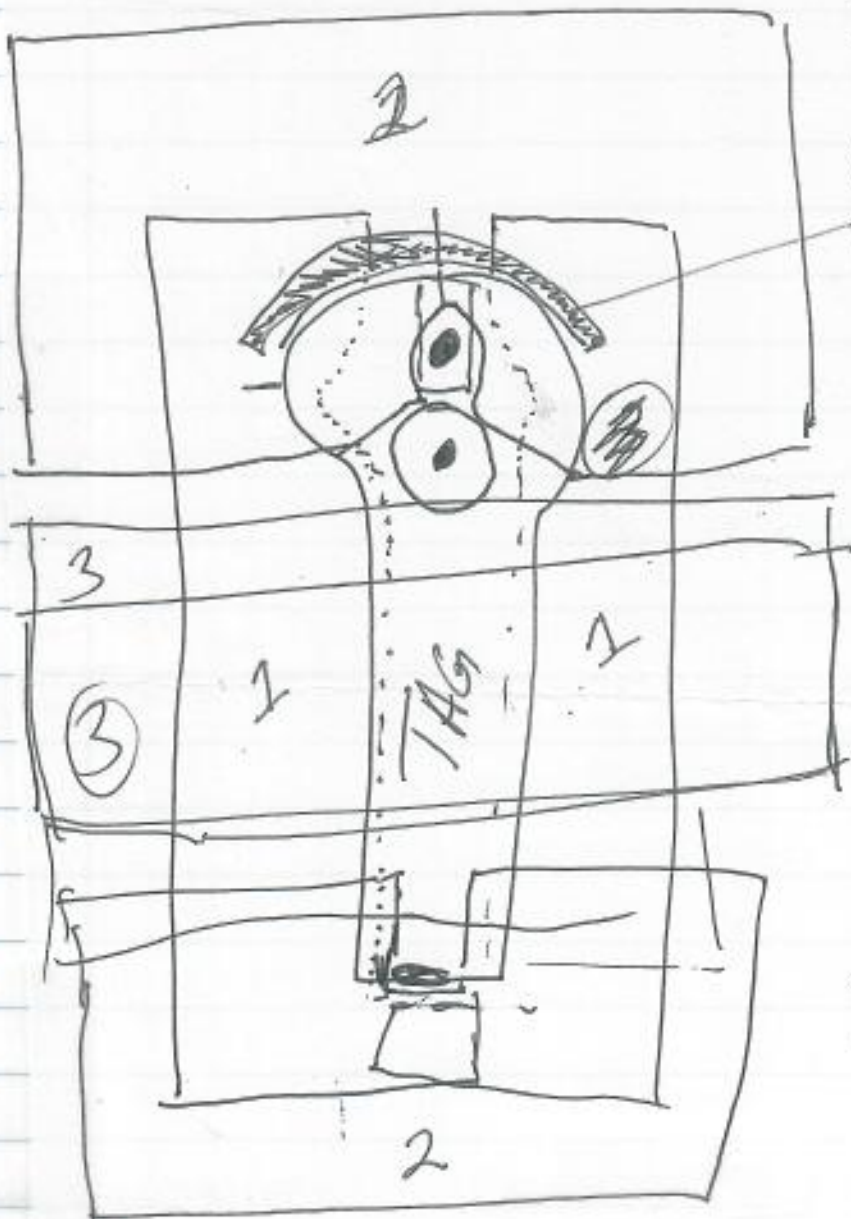
No. 3 - Cross Straps x 2

Recommendation - Make the side pieces wider to give more area of shell attachment

11/18/2022 - Attachment Design
 Wildlife Com - Spot 6-387 version

By
 MARC RICE

Carbon Fiber
 bumper.



Make Side

→
 Pieces (#1)
 wider

3 LAYERS
 TOTAL

TESTS BY RICE BALAZS
BY WVE SUPPLIER Epoxy 5 minute

11-18-2022 AT 7.5 MIN = 53°C

PNBA (=121°F)
↓



TX 54.9C (130.8F)

THIN-Cast



Sent: Friday, November 25, 2022 1:30 AM

To: Marc Rice <mrice@hpa.edu>; Marc Rice <mrice@hpa.edu>; Larry B. Crowder <lbcrowd@stanford.edu>

Subject: About Burns

"What temperature water will burn human skin Celsius?"

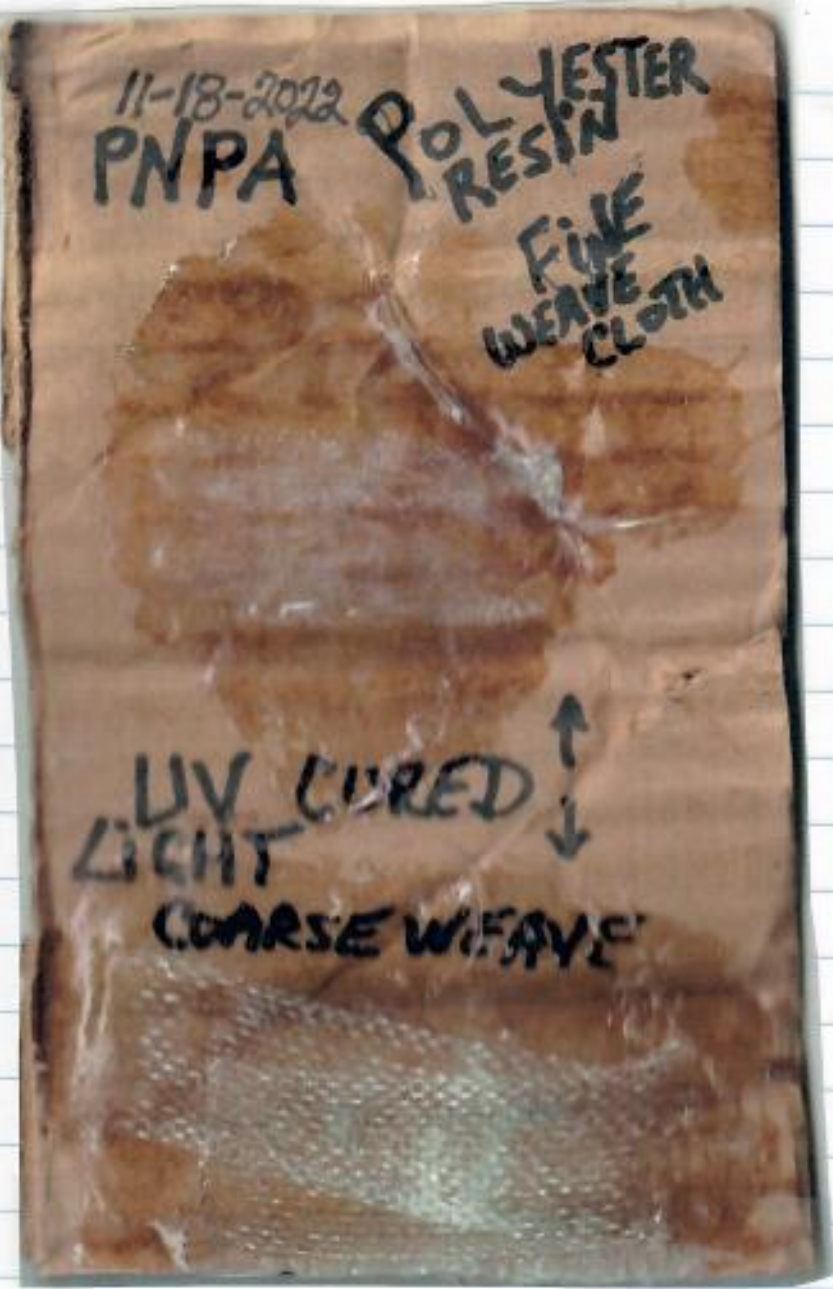
Answer- Studies show that a temperature of 52 degrees C (125 degrees F) can cause a full-thickness skin burn in 2 minutes and a temperature of 54 degrees C (130 degrees F) can result in a full-thickness skin burn in 30 seconds."

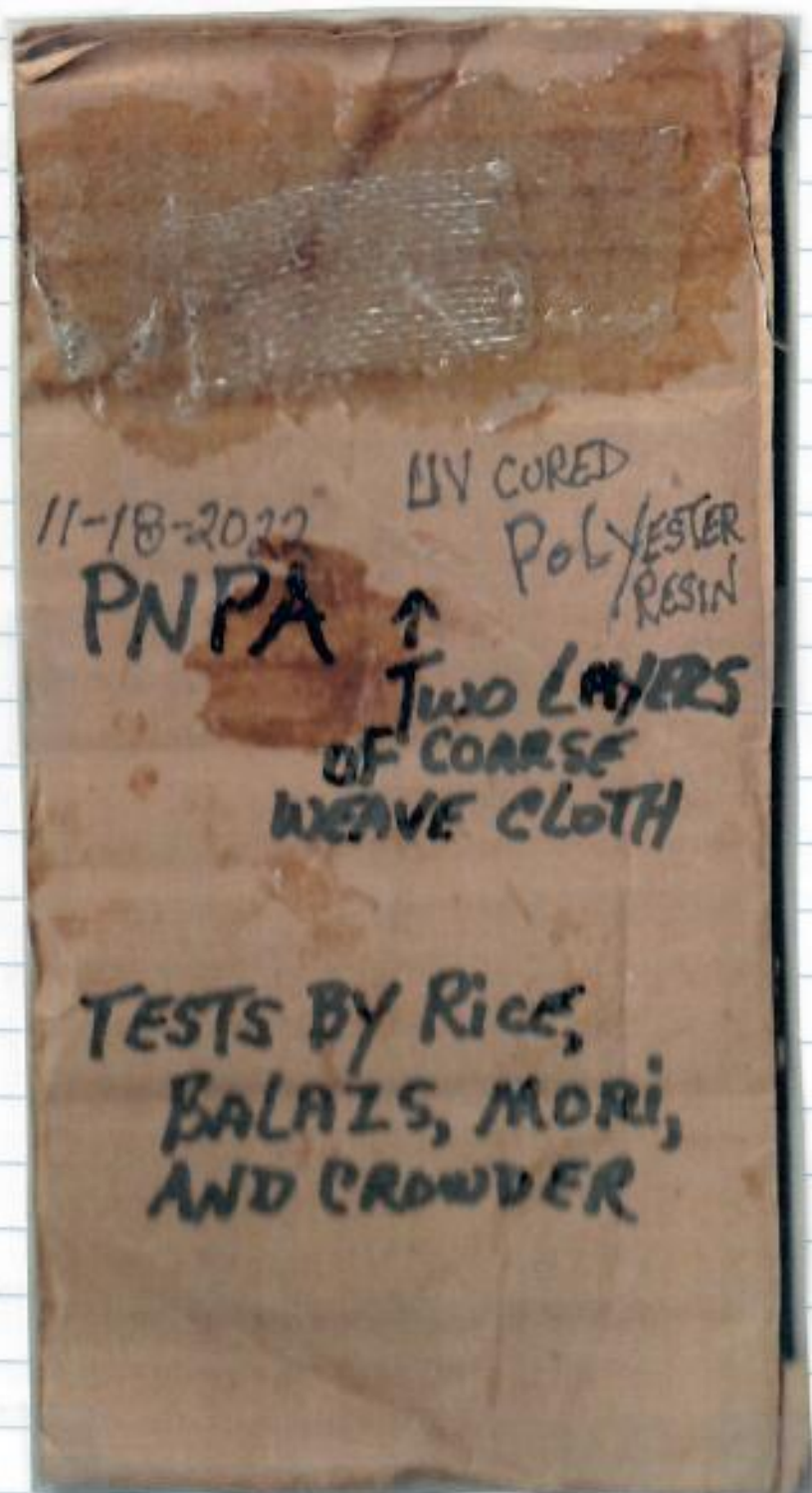
GB comment- I suspect the growing tissue immediately under the thin scutes of our small loggerheads are more sensitive than human skin.

11-18-2022
PNPA POLYESTER
RESIN

FINE
WEAVE
CLOTH

UV CURED
LIGHT
COARSE WEAWE





11/20/22, 10:55 AM FIRST DAY TALKING POINTS

STRETCH NAGOYA

FIRST DAY TALKING POINTS

November 16, 2022



STRETCH Goodwill Coordinating Meeting

Talking Points for the STRETCH Goodwill Coordinating Meeting with PNPA and Kochi University Colleagues, 16-18 November 2022.

-Welcome and Self-Introductions- Words of Mutual Appreciation.

27
Very cordial and respectful day of meetings, renewing old acquaintances and making new ones.

- Overview and History of the Stretch Project- by Professor Crowder including 12-min video of Larry's Stretch presentation.

Larry Presented his PICES talk and fielded questions about the STRETCH project. Question and answer session followed.

LINK TO LARRY'S STRETCH TALK

-Update on rearing of cohort Year 1 turtles for 2023 release, and cohort Year 2 turtles for 2024 release. Visit to see the turtles and learn about rearing techniques.

Today we will visit the juvenile turtles we will be deploying with satellite tags. Just got back from visiting our the turtles and they look wonderful. healthy and growing. I will post videos soon.

There are 29 turtles in the 1st cohort and there are 30 turtles in the second cohort and they are in a separate facility... videos on todays post.

-Update to the extent known on ship schedule for late April/early May 2023 and Japan port of departure.

Director Kurita said that we will know the date of the ships sailing 1 month in advance with a variation of plus or minus 3 days. We learned that sailing times in late March, early April might be available. They would really like to do late March.

-Possibility of holding a Bon Voyage; formal send-off "Red Ribbon Cutting & quot; ceremony at PNPA for the Stretch turtles- including banners, publicity and attendance by local officials MOL officials school children news media and attendance by local, MOL officials, school children, news media, and the general public.

The sailing will begin at Yokohama which is about 4 hours away from Nagoya.

Security is extremely strict around the MOL port of departure and any sort of bon voyage is impossible. A small departure ceremony could occur at

the aquarium but there was seemingly little interest in anything too extensive.

MASANORI MORI - raising turtles and will travel on the ship to deploy them.

-Possibility and/or the need/importance for Kurita, Saito, Crowder, Rice and Balazs together to meet in person with MOL officials. A courtesy visit to pay respects and express appreciation.

Director Kurita will communicate with MOL to determine if they would welcome any sort of a courtesy call.

Kurita san said that a visit was unnecessary.

-Ship's Ports of Call in Mexico/Panama Canal and the USA East Coast.

Director Kurita told us the probable port of calls but this seems to be somewhat sensitive so I will not share it online here. Larry, George or I can share individually if needed.

Cleared to publish: Port of calls will be Lazaro Cardena and ^{BALBOA} Cristobal Panama and it appears that the Japanese team will be able to fly out of L Cardena to get back to Japan via LAX or SFO. However, transport to the airport is difficult.

- USA and other Visas for Professor Saito and PNPA person accompany the turtles for release.

This was discussed but was put on hold pending the decision on where the deployment team wants to depart the ship. George and Larry assured Kurita san that one or both of them would meet the team in LA or SF to help smooth the trip home.

-Traveler Health Insurance Coverage for Professor Saito and PNPA person.

It seems to me that Director Kurita is well aware of the various logistic and regulatory requirements of travel for his team.

- Travel expenses to cover transport to ship, shipboard lodging, hotel lodging East Coast USA, meals and incidentals, and flight home to Japan (to place of residence) for Professor Saito and PNPA person.

Larry is working with everyone to make sure the appropriate payments to the aquarium and staff and Dr. Saito occur as smoothly as possible.

Yesterday, we came to an agreement about funds and sourcing for PNPA (raising turtles) and the deployment team, etc.

-Shipboard internet access and Iridium satellite phone for Professor Saito and PNPA person.

Internet access is limited to 3 hours a day onboard the ship so we agreed that it would be wise for STRETCH to supply the PNPA team with an Iridium Satellite phone.

STRETCH will provide a sat phone and service for the deployment team.

-PIT tags/flipper tag(s) for the Stretch turtles.

Flipper tags and PIT tagging was discussed and tags and procedures were agreed upon. STRETCH will purchase 100 PIT tags for the project (PNPA will put in a Trovan PIT tag in addition) and both STRETCH and PNPA will apply a metal tag with appropriate addresses on them.

-Final date/deadline for determining release coordinates for the turtles. Pending decision by Jeff P and Dana

Pending decision by Jeff and Dana.

Back-up release plan, should sea conditions not allow opening the door close to sea surface shown in Director Kurita's photo. Ropes, baskets, materials and assembly for lowering and release of the turtles from a higher deck, if it becomes necessary.

Director Kurita has one backup person (himself) in case one of the current deployment team gets ill or cannot make the dates of the sailing. He also felt that there was no need for ropes, baskets, materials, etc. for

deployment from a higher deck. Kurita san did say that they will have lines and baskets to do the lowering from the side deck.

-Non-invasive samples from Stretch turtles for genetics by Japanese researchers (Kochi University?)

Everyone agreed that we should take blood samples well in advance of the release and store them in -85 C freezer

Tomomi Saito will check with colleagues about analysis of genetic samples

-Video documentation contracted expert from Japan to accompany Professor Saito and PNPA person; video of rearing of turtles and of tag attachment work; video of egg collection and initial hatchling rearing at Kochi University.

I think that the PNPA/ Kochi U team will need to figure out a way to take video and photos of the deployment as Director Kurita said emphatically that there would not be room for anyone else on the ship.

Tomomi Saito has agreed to do the video documentation of the transport and release of cohort 1. STRETCH will supply camera equipment to Saito san for the trip.

-March/April 2023 satellite tag attachment team- students from the Hawaii Preparatory Academy (HPA)- lodging, meals and other coordination, including opportunities for educational group interactions, cross-cultural sessions, with students from the Nagoya area.

Not discussed

-Mapping and map distribution of satellite tracking results- initially every 7-10 days, thereafter once a month. And/or possibility of automated daily map updating for each turtle through state-of-the-art Stretch web site.

Not discussed

24
-Coordination of public relations educational outreach, including web site development. How best to support each other plans. Two separate website plans or one?

The PNPA web site person and the Director indicated that they would do minimal PNPA STRETCH web pages and wish to link to the STRETCH web site for all of the tracking and outreach stuff.

Mishima san is the person in charge of the PNPA web site

-ANA All Nippon Airways Turtle Motif passenger planes- possible avenue for additional advertising of Stretch.

Discussed - anything is possible but the Japan team did not seem to be terribly interested.

-Feasibility of an outside well-ventilated and shaded area to do the attachment of satellite tags.

We will do an attachment outside this morning so we will have a better idea of what we can do. The attachment location just outside of Chelonia Institute seemed to work fine. We will make room in the area, add tables and be able to have 5 to 10 animals in the work area at a time.

-Practice attachment of mock satellite tag during the present visit to adapt for different design of the new Spot 387 tag.

Practice attachment went well. We spent some time measuring curing temperatures of polyester resin versus epoxy and found that epoxy got very warm (57°C)... both the 1 min and the 5 min epoxy. We were able to control the max temp very well on the POLY resin.

The tag is now on a member of cohort 1 and will remain on until we return (hopefully) in March or April.

-Locally sourced fresh polyester and epoxy resins for practice attachment of a mock satellite tag in preparation for April/May 2023 attachments.

We have a locally sourced PR but we are not terribly happy with its consistency and it is very expensive. Marc will investigate shipping fiberglass Hawaii PR from Hawaii.

November 12, 2022



STRETCH Trip- Day one

November 13, 2022

11/12/2022 To see more about the STRETCH project, please visit the HPA Sea Turtle Research Program web site . To learn more about the North Paci7c Loggerheads. we are working with, please visit George Balazs' web ...

[READ MORE](#)

4-20-2022

• GO PRO HERO 10

w/Head MOUNT
EXTRA BATTERY

256 GB CARD
64GBITS

Head STRAP Quickclip

AT SHIN-OSAKA

#76/72

HC-VX981
K-~~981~~

• lessons YOUTUBE
JAPANESE

380x2

25x2

117

88

800

77

Rearring over
Time

amazon.com

Details for Order #111-6781900-8720250

Print this page for your records.

Order Placed: December 15, 2022
Amazon.com order number: 111-6781900-8720250
Order Total: \$1,721.45

HAND CARRIED
TO JAPAN 1/2023

~~Not Yet Shipped~~

Items Ordered

	Price
2 of: GoPro Head Strap with QuickClip - Official GoPro Mount, Black, GoPro Sold by: Amazon.com Services LLC Condition: New	\$16.99
2 of: SanDisk 256GB Extreme Pro Micro SD Memory Card for GoPro Hero 10 Black Camera Hero10 UHS-1 U3 / V30 A2 4K Class 10 (SDSQX CZ-256G-GN6MA) Bundle with 1 Everything But Stromboli SDXC & Micro Card Reader Sold by: CWP Online (seller profile) Condition: New	\$41.11
2 of: GoPro HERO10 Black Bundle + Dual Battery Charger + 1 Extra Battery + 64GB SD Card - E-Commerce Packaging - Waterproof Action Camera with Front LCD & Touch Rear Screens, 5.3K60 Ultra HD Video Sold by: TTP Retail (seller profile) Product question? Ask Seller Condition: New	\$384.99
2 of: Dream Bull Chest Mount Harness Chesty Vest Head Mount Strap for Action Camera Compatible with GoPro Hero 11, 10, 9, 8, Max, Go Pro Hero 7, 6, 5, 4, Session, 3+, 3, Hero (2018), Fusion, DJI Osmo, AKASO Sold by: Dream-Bull Direct (seller profile) Product question? Ask Seller Condition: New	\$20.99
1 of: Panasonic 4K Ultra HD Video Camera Camcorder HC-VX981K, 20X Optical Zoom, 1/2.3-Inch BSI Sensor, HDR Capture, Wi-Fi Smartphone Multi Scene Video Capture (Black), PANASONIC Sold by: Amazon.com Services LLC Condition: New	\$697.99

Order Summary
Order Total: \$1,721.45
Shipping: \$0.00
Tax: \$0.00
Total: \$1,721.45



29

Over
473 V
STAIR
Unit

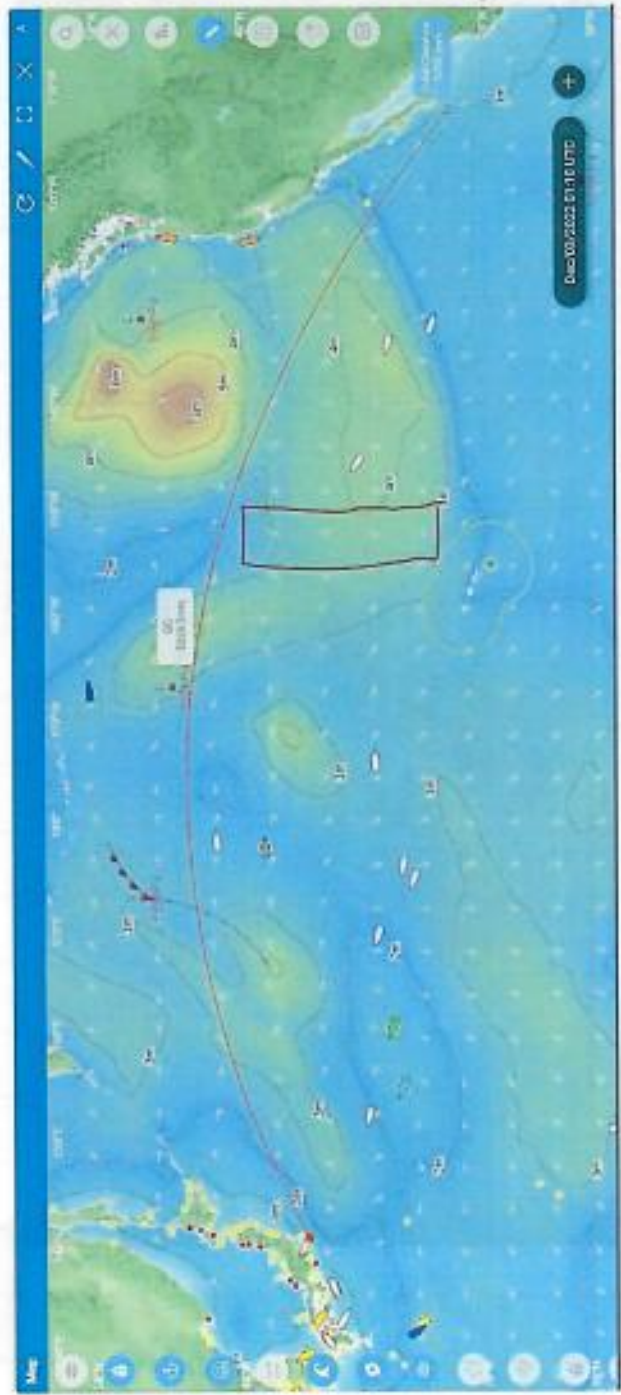
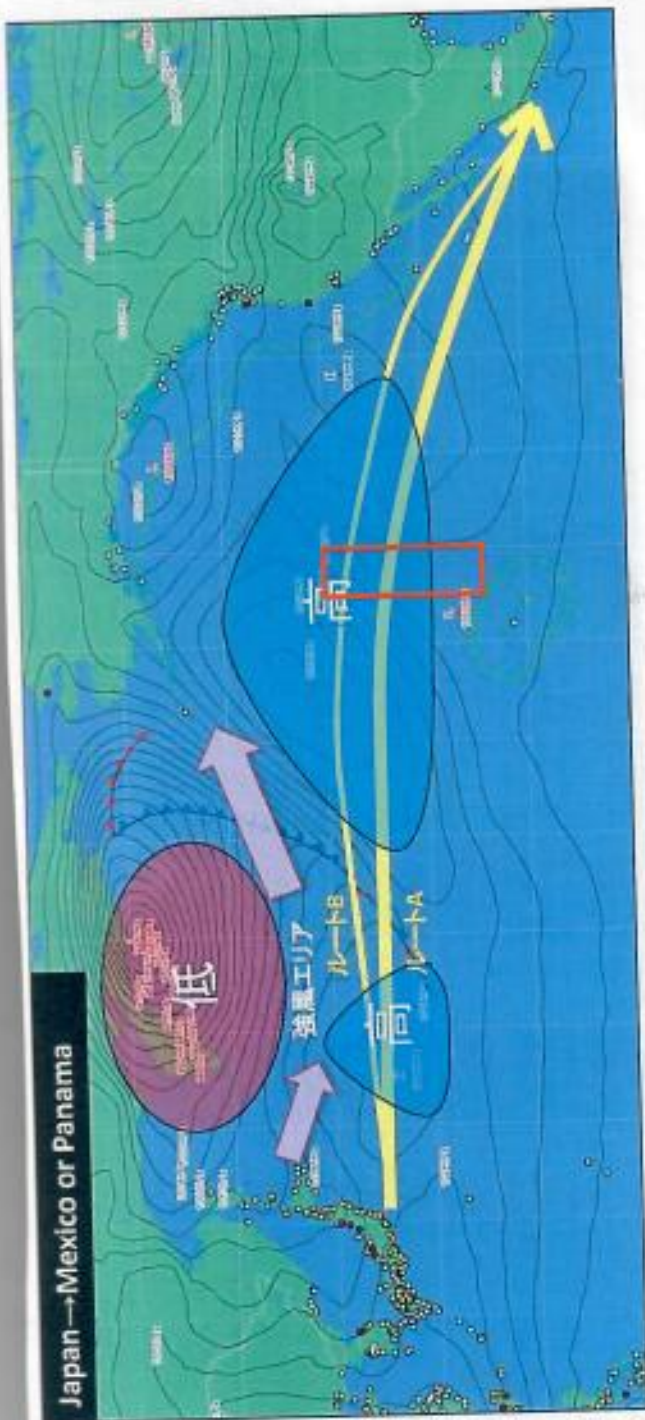


Fig. 1

Total before tax: \$1,643.00
Tax to be collected: \$77.00
Grand Total: \$1,720.00

Japan → Mexico or Panama



ORTEGA RM 193
NO. CA 94305-4621

Estimated tax to

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From: 栗田 正徳 <m-kurita@nagoyaminato.or.jp>
 Sent: Monday, January 9, 2023 7:52:21 PM
 To: Larry B. Crowder <lbcrowd@stanford.edu>; ogurayama102@gmail.com <ogurayama102@gmail.com>
 Cc: Larry.Crowder@stanford.edu <Larry.Crowder@stanford.edu>; honu world <itsahonuworlindhawaii@hotmail.com>;
 Dana K Briscoe <dbriscoe@stanford.edu>; Polovinajeff@gmail.com <polovinajeff@gmail.com>; Jeffrey Seminoff
 <jeffrey.seminoff@noaa.gov>; t-saito@kochi-u.ac.jp <t-saito@kochi-u.ac.jp>
 Subject: Re: Loggerhead STRETCH 2023 Deployments

Dear Larry-san

I perfectly understand your worry. No need for you to apologize.

I told MOL that our earliest option possible is depart in the late March and release in the early April and that we'll see the climate situation of December and then decide the releasing point. So, I don't think our explanation to them should be much different than it's been.

The most important thing we must keep in mind is that we cannot ask MOL of any change of its route because it's totally at their discretion depending on the ocean condition of the time.

The shortest route is shown in Fig. 1. *Northern, shortest, Great Circle Route*
 The route in Fig. 2, which was shown before, is only an example when the ocean is rough and the ship avoids low-pressure. It's not until immediately before that we'll know the exact route to be taken.

In order to shake off our worries, we let MOL know when it's safe for the turtles to be released even on the farthest north route (Fig.1) and that we are to be on the ship after that. That's the most important point. Depending on the schedule, I might need to take over Saito san.

I learned recently from MOL that although there are multiple ships a month to go via Panama from Japan as I said in the meeting, our chance to be aboard is limited. Even if MOL owns ships and manages to schedule, there's a case a company in Singapore operates. Those ships might not be available to us. And MOL also says disembarking in Lazaro Cardenas is not recommendable at all. Being aboard for extra days, I think we'd best think getting off the ship in Panama thinking safety first. Although it's safe to disembark in Panama, we need a barge from the ship to the port as they do not unload cars there. MOL is now checking on the cost.

The number of ships that we can possibly go aboard gets slimmed, but it does not rule out our plan this year. Only the release timing may delay and it may not suit to the originally planned members to go aboard.

I trust our plan gets done.

Masaroni Kurita
 Director
 Port of Nagoya Public Aquarium
 1-3 Minato-Machi, Minato-ku
 Nagoya Japan 455-0033

Tel +81-52-654-7080
 Fax +81-52-654-7001

*Monday 1/16/23 ZOOM steering boundary (July-Sept)
 July?
 Thermocline - depth
 Isotherm - Lines*

Sunday 1/29/2023 8:45 PM HNL

Water Temp in tank on Boat

STRETCH Oceanography Meeting 18 January 2023

[Zoom link](#) to meeting

Wednesday ^{TIME TO} ACCLIMATE

- 1 PM
1/18/23
1. Greetings and brief updates
 2. Review of latest information
 - a. 2023 cohort deployment
 - b. Current ocean state and ENSO forecast
 3. Exploratory analyses for 2023 turtle release
 - a. Sea surface temperatures along shipping route
 - b. Location of historic tracks moving across eastern North Pacific
 - c. Transit time from release location to thermal corridor
 4. Next steps
 - a. Oceanography: additional analyses (e.g. Chl-a/winds/currents)
 - b. Deployment: George's upcoming Japan trip
 5. Any other project news/updates



UA JANUARY 2023

Flight	Departure Date	Departure Time	Departure City	Arrival Date	Arrival Time	Arrival City
449	1/21/2023	1:10 PM	HNL	1/22/2023	6:45 PM	KIX
450	1/29/2023	8:45 PM	KIX	1/29/2023	8:50 AM	HNL

Sunday / 845 PM

ARRIVE HNL

ISSUED BY

NAME OF PASSENGER (NOT FINGERPRINT)
BALAZS/GEORGE
FROM **HONOLULU**
TO **OSAKA KANSAI**

N23
HONOLULU
4/1H /1H1
ORDER FLIGHT CLASS DATE TIME
HA 449 C 21JAN110P

***** **GOLD** *****
* * * * *
* **BOARDING PASS** * * * * *

***** **PREMIUM SEAT/SMOKE** *****
* * * * * **2G NO** * * * * *

***** **ZONE 1 070** *****

***** **ELECTRONIC** *****
***** **1 173 21921829** *****

NOTICE: PASSENGERS MUST BE AT THE GATE OR ON THE AIRCRAFT 30 MINUTES PRIOR TO DEPARTURE FOR ALL FLIGHTS.

GOLD
NAME OF PASSENGER
BALAZS/GEORGE
115219970
FROM **HONOLULU**
TO **OSAKA KANSAI**
HAWAIIAN AIRLINES
ORDER FLIGHT CLASS DATE TIME
HA 449 C 21JAN11
DATE **18** BOARDING TIME **1225P** SEAT **2G** SMOKE
ZONE 1 070
PREMIUM ELECTRONIC

BOARDING PASS
GOLD
NAME OF PASSENGER
BALAZS/GEORGE
HA 115219970
TO **OSAKA KANSAI**
HONOLULU
HAWAIIAN AIRLINES
ORDER FLIGHT CLASS DATE TIME
HA 450 C 29JAN845P
DATE **12** BOARDING TIME **755P** SEAT **2G** SMOKE **NO**
ZONE 1 011
PREMIUM ELECTRONIC
SAL /KIX

HNL849VH 1039 21JAN

BALAZS/GEORGE

BALAZS/GEORGE

KIX

SKD 1310

449

HA

HNL

SKD 2045

450

HA

HONOLULU

HA 32 18 97

OSAKA KANSAI

1/26/23 Thursday
PAPA
Kurita/GB
Luoch



JAPANESE SAKE & TEMPURA

OSAKA-NAGOYA ^{SUNDAY} 21-29 JAN. (56) ^{SUNDAY} 2023

X Close Previous Next
Approximate Schedule of Balazs Trip to Japan 22-29 January

HW honu world ← ↶ ↷ → ...
 To: Larry B. Crowder; jeffrey.seminoff@noaa.gov; Dana Briscoe +6 others Mon 1/16/2023 1:09 AM

Dear Stretch Full Team- I'll be traveling to Japan starting next Sunday. Here's a sketch of my activities and movements. Note please this trip is not being funded with Stretch monies. However, to a large extent I'll be doing things in support of Stretch. The trip is being self-funded. Aloha, George

- X January 22 Sunday- arrive Kansai in the evening stay overnight at Airport Nikko Hotel.
- X January 23 Monday- Train to Nagoya check in at Crowne Plaza Hotel Kanayama mid-afternoon.
- ✓ January 24 Tuesday- Late morning visit PNPA, meet with Kurita-san and Mori-san. Host them for lunch nearby or on site. Afternoon spend time with Stretch turtles (both year classes), observe and video feeding and other behaviors. Check mock transmitter on turtle.
- January 25 Wednesday- take train to various places to be determined. Note I have a green car JR pass so will use it for enjoyment. No set schedule, entirely flexible on my own.
- ✓ January 26 Thursday- Late morning visit PNPA, meet with Kurita-san and Mori-san for a short time. Observe Stretch Turtles. Tour aquarium and enjoy.
- ✓ January 27 Friday late morning- depart Crowne Plaza Hotel take train to Kochi City arrive late afternoon. Check in at Comfort Hotel Kochi near train station.
- ✓ January 28 Saturday meet with Saito-san for breakfast, visit his university, visit Kochi Beach where Stretch turtles originate. Host his family for dinner at a restaurant of their liking.
- ✓ January 29 Sunday late morning check out of hotel and take train to Osaka > Kansai for flight back to Honolulu departing early evening. Arrive home same day in Honolulu at 9am.

ISSUED BY
TSA PRECHK
NAME OF PASSENGER (NOT TRAVELER/AGENT)

BALAZS / GEORGE
 TO **OSAKA KANSAI**
HONOLULU

29JAN23 JP
 SXL /KIX **OSAKA KANSAI**
CARRIER FLIGHT CLASS DATE TIME
HA 450 C 29JAN845P

GOLD PRICED
ZQXGIG /HA

BOARDING PASS

PREMIUM SEAT/SMOKE
2G NO

ZONE 1 011

ELECTRONIC

NOTICE: PASSENGERS MUST BE AT THE GATE OR ON THE AIRCRAFT 30 MINUTES PRIOR TO DEPARTURE FOR ALL FLIGHTS. **2 173 2192182972 5**

1.0 6C = 46 F

2C = 34 F

NEED KASADERA



MITSUKI
OCT-FEB AR South
Mori Hawaii

2 sections separated

22 Nov moved from 22C to 20C

slow growth reduce food
TEST TURTLE ON DISPLAY

seawater piping thru out ship
FIRE DINNER

PHOTO OF ME w/ TURTLE

INCUBATOR LEFT TROJAN RIGHT

ALL MEASUREMENTS EXP. ATTACH

MIYUKI CORPUS
Get Thermometer
MORE FOOD LABOR TANKS SPACE CONTAINERS

lower 10C each week

Interst measurements

HO TEM SEL

INCUBEL TAG

5367 LF
5305 LF

Moderately Deformed CARAPACES

Diet compo? =

need Conf

MOVEMENTS & ACTIVITIES (58)

21-29 JANUARY 2023

1/21 SAT. Depart HNL
1/22 SUN. ARRIVE KIX 630 PM - Long Emigration
Nikko Hotel KIX

1/23 MONDAY Breakfast MED - RAIL PASS - Green Car
TRAIN TO SHIN OSAKA / OSAKA → NAGOYA
NIGHT 1 ANA CROUPE PLAZA, DINNER SUSHI

1/24 TUESDAY - TO PNPA Met with KUNITA,
MORI - Saw Chizuru (for photo)
← See DISCUSSION LIST. Lunch at Food Court.

NIGHT 2 SHINKANSEN < > HAMAMATSU - Light snow,
DARK Return - Nothing to see out window
ANA WED. NIGHT 3 Night, Wednesday

1/25 THURSDAY LIGHT SNOW then Sun Pan-9 AM.
Called POLOVINARE Month Consistency of
Release. TO SHIZUOKA Sump castle
Dinner at ^{Hikari} Sushi Restaurant ^{EBDAMA} Return

1/26 THURSDAY TO PNPA ARRIVE 11 AM met w/ KUNITA
DISCUSSION TOPIC on next page

MORI to Me to watch turtles being fed.
Saw and photo Attachment Test of turtle
TAG NOT CLINCHED. Feeding 5-6 kg

Daily in Nov at 27°C, Now 2kg daily 22°C
PM TOUR by KIYO of SPECIMENS,
VISIT by NOZUMI & MITSUKI 4 MONTHS OLD.
MID APRIL BACK WORKING A PNPA

need to complete

MEANS
HOPE

NOZUMI TOHYAMAZAKI

3-5% wet wt per day

1/28/2023

KOCHI

w/ SAITO

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

more asking

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more asking

more asking

more asking

more asking

more asking

more asking

MR. YOSHINORI KUMAZAWA
"NAME OF" INVENTOR
"PATHWAY"
Kochi Body
He died 2 years ago

NOZUMI
TOHYAMAZAKI
Turtles
at
KURA
NOZUMI
TOHYAMAZAKI

SHIKOKU AQUARIUM
KAGAWA JAPAN

Udatsu Station

Yoshi's Aquarium
UTAEU-CHO

SAITO
Screening

Chose from 100
SWIM CRAWL ETC

More - Examining

~~NA N P AN I~~
840 SAITO
"MEANS"
"7 OCEANS"

August 14, 2022 Mitsuki Birthday
Means FULL MOON
5 MONTHS OLD

Continued Thursday Night 4 ANAKANAYAMA -
Big Mte Dinner.

1/27/23 up 7:00am - Depart w 10am ^{HIKARI}
Friday NAGOYA TO OKAYAMA; NAMPU TO KOCHI
TO KOCHI COMFORT HOTEL Rm 912

USA = Kochi Beach ^{Kochi DMW.}

1/28/2023 SAT. Breakfast 9am w SAITO. Drove
to Kochi Beach -> USA MBI his office, met
Students. TOURED FACILITY. Drove to Hatcher's
enclosure ACROSS Highway from "LAWIAKEA
Beach STORE!! COLD GOLD WIND but clear skies
"ALOHA VILLAGE"

OVER



Comfort™
by CHOICE HOTELS

コンフォートホテル高知

〒780-0056 高知県高知市北本町2丁目2-12
TEL. 088-884-2811 FAX. 088-884-2812

Comfort Hotel Kochi

2-2-12 Kita-Honmachi, Kochi-City, Kochi, 780-0056 Japan

●ご予約は、公式 Web サイトから <https://www.choice-hotels.jp>

交通のご案内 Transportation

JR「高知」駅南口より
徒歩約5分。
高知自動車道「高知」ICより
車で約9分。
「高知龍馬」空港より
「高知駅前」まで空港連絡バスで
約24分。
5-minute walk from South Exit
of JR Kochi Station.
9-minute drive from Kochi Exit
on Kochi Expressway.
24-minute drive from Kochi
Ryoma Airport to Kochieki mae
by Kochi Airport Connecting
Bus.



WAKATSUKI Motoki

Now

School house
Aquarium

はこべ本店 都築町志布街
はこべの店 サニーアーク街



太平洋を隔ててハワイと向き合う
ここ甲斐海岸に海好きが集まる
“小さなハワイ村”を
私たちは創り続けています。



太平洋を隔てて
ハワイと向き合う甲斐海岸に
“小さなハワイ村”
「Aloha Village」を創っています。

中村 雄大
アロハヴィレッジ office
〒781-0322
高知市春野町甲斐1422-27
TEL 088-854-8585・HP 080-5666-3333
e-mail: blueheaven.mail@gmail.com



↑
VISITED
HAWAII w/ OKINAWA
GRAD STUDENT
STUDYING HAWKSBILL

FROM NAGOYA

Saito Student N=7
Usa Marine Biological Institute Kochi University
194 Inoshiri, Usa, Tosa, Kochi
781-1164 Japan



Noah Yamaguchi

Mobile phone: +81-90-8134-8869

E-mail: noaymgch53@gmail.com

1/28/23

KOCHI BEACH

Usa Marine
Biological
INSTITUTE
KOCHI UNIVERSITY



Mikihiro

幹大

OVER for other student

Nakagawa

中川

✓✓ miki miki 2000@ezweb.ne.jp

6193s027@s.kochi-u.ac.jp

一真 金本

✓ kazu80220308@gmail.com



Welcome to Kochi!
I'm happy to see you!

FROM NAGOYA

OVER

X Close Previous Next

Noted 1/26 wednesday GHB

HW honu world
To: You

Thu 1/26/2023 7:51 AM

- 29 turtles total (that includes 2 badly deformed & 2 moderately deformed. Photos taken of 2 moderately.
- Deformity not noted in any when hatchlings
- Seawater now at 22C in Nov was 27C. Feeding 2 kg daily now in Nov was 5-6 kg.
- 25 turtles available includes mock turtle. (4 SWAYBACK)
- Extension of contract w/Stanford needed since release is >= July and contract ends in June. Cites requires contract to be valid when release happens.
- October thru February MOL route is different- shifts far south.
- Change in release month March/April to July/August 4 months) means added expenses for aquarium- food, labor, additional containers.
- Visit for Mori and/or Kurita to Hawaii.

Teahalle
WYMEKEN

from hot nests
POST TRIP
maturity closure
epiphyseal plates
starting well before 14-months

1/28/ Mouth of NiyoDO River
2/3 8/2/21 nesting date
9/23/21 Hatching date 114 EGGS
SUCCESS 83.2% 94/113 temp 29.5 +/- 1.7
31.9 - 25.2

Re: Congrats on your safe return

斉藤 知己 <t-saito@kochi-u.ac.jp>
To: You

From Tomomi-san

1/31/2023

Tue 1/31/2023 4:57 AM

Dear George-san,

As I mentioned at my office, the 30 hatchlings were selected from about 100 individuals. Moreover, I sent them after keeping at our facility about a month. During the period of a month at our tank, we observed the appearance and swimming behavior of them many times. Also, although we did not measure the moisture content in the sand of the hatchery, it is not thought that it was insufficient, considering the body shape and activity of most of them.

As for morphological abnormalities, if they are of a nature that causes deformity during the developmental stage, I am sorry, and it is impossible to detect them at the time of hatching. As a countermeasure for this, from next summer onwards, I will send more than 40 inds to Nagoya instead of 30 inds and have them selected during raising.

There is one thing that has occurred to me over a few days, thinking about my past experiences. It's a little long, but please be patient and read.

It is possible that the 2021 hatchlings had gotten pneumonia during the cold winter in Nagoya (around 2021-2022).

Around 1995, when Dr. Uchida and we succeeded in artificial reproduction at the Nagoya Aquarium, we obtained many hatchlings, but we did not come up with an appropriate raising method, and many of them caught pneumonia.

The cause was that the oil film and dirt derived from the food containing a lot of lipid that floated on the surface of the tank were absorbed by the turtles. The oil film seems to contain not only dirt, but also a multitude of harmful bacteria to grow on. Turtles breathe through their lungs, so if they inhale the oil film, they will get pneumonia especially in cold winter.

It is also more likely to occur in winter, when the difference between water temperature and air temperature is significant. We and veterinarians came to the diagnosis by autopsying a number of dead turtles.

This causes partial or total organ death, and the alveoli remain atrophied rather than inflated, making it difficult to maintain balance while swimming, resulting in erratic swimming.

In addition, they are supposed to be symmetrical, but they grow up with a strange body shape. When such inds died and an autopsy was performed, it was determined that the lung cells did not appear to heal, leaving the lungs collapsed and atrophied. Also, although not proven, necrosis of lung cells due to pneumonia may affect the development of the carapace around there.

Therefore, even if we don't know that hatchling had pneumonia when they were small, it may be discovered after they grow up and their swimming balance deteriorates.

By the way, we, the turtle breeding staff and veterinarians, overcame this symptom by devising a system that actively drains, exchanges the surface water and uses UV. Furthermore, pneumonia is less likely to occur in sunny and warm places. Since then, the number of deaths from pneumonia has decreased significantly. Although this is not written anywhere as the paper, it was a common understanding among the staff and veterinarians at Nagoya Aquarium before 2010.

I don't know how many current staff in charge know the hardships of that time. If the current staff were to continue using the system inherited from the predecessor, nothing would have happened, so it is possible that they may not have seen turtles with pneumonia. When it became necessary to replace the tank for some reason, it is possible that the current staff did not follow the pipework devise that was used in the past because they did not think about it at all.

Or if the 2021 hatchlings were kept in a facility with a greenhouse on the south side of the Nagoya Aquarium grounds, I think they would be less susceptible to the disease, but currently the west side of the grounds where they are kept does not get much sun. I think the temperature is lower.

Thank you for reading my long delusion.
It's just my opinion, but I can't be sure.

High resting metabolic rates with low thermal dependence induce active dives in overwintering Pacific juvenile loggerhead turtles

Chihiro Kinoshita^{1,*}, Takuya Fukuoka², Yasuaki Niizuma³, Tomoko Narazaki¹ and Katsufumi Sato¹

2018

ABSTRACT

The metabolic rate and activity of sea turtles generally decreases with decreasing seasonal ambient temperature. Juvenile loggerhead turtles in the Mediterranean Sea made prolonged inactive dives (>400 min), indicating a state of dormancy during the cold winter period. However, seasonal differences in dive duration were not detected in juvenile loggerheads in the western North Pacific, even though the ambient water temperature changed by more than 10°C. Thus, metabolic states might differ among populations, explaining differences in the diving behaviour of juveniles during winter. Here, we tested the hypothesis that the active overwintering behaviour of juvenile loggerheads in the western North Pacific is driven by a high resting metabolic rate (RMR) with low thermal dependence. The RMR of juveniles in the western North Pacific ($N=13$) was 1.4–5.7 times higher ($Q_{10}=1.8$) than that of juveniles in the Mediterranean Sea ($Q_{10}=5.4$). To validate the high RMR values in the western North Pacific, the difference between core body temperature and ambient water temperature (ΔT_b) was estimated from measured RMR and was compared with measured ΔT_b . The measured and estimated ΔT_b matched each other. In addition, most of the dives conducted by the turtles in the western North Pacific were within the calculated aerobic dive limit (cADL) expected from the measured metabolic rate. Our results indicate that high RMR with low thermal dependence induces active diving during the overwintering periods of juvenile loggerheads in the western North Pacific, supporting the suggestion that metabolic states differ among populations.

- 1. Water for turtles
- 2. Arrangements for
- 3. Additional project or committee business - All

for 2024? "The realities of the world are not what you see, but what you feel."
 2023 Nov 23
 2023 Dec 23
 2023 Dec 23

amazon.com



SGBGWv2Pwv

Purchase Order #: 63125482
Your order of April 11, 2023 (Order ID 111-6281078-1449808)

Qty.	Item	Item Price	Total
1	uvBeast V2 - Black Light UV Flashlight with HIGH DEFINITION with Flood Effect 385-395nm UV Best for Commercial/ Domestic - Kitchen XDD1O91ZLF 91-326T-N81D 633632141072 (Sold by uvBeast(tm))	\$39.99	\$39.99
1	Animal ID 20-Pack ISO Compliant Transponder RFID Microchip Tag Kitchen XDD1VBND9H MRT212A 686907414835 (Sold by manruia)	\$27.99	\$27.99

We've sent this part of your order to ensure outdoor service. The other items will ship separately.

Subtotal	\$67.98
Tax Collected	\$5.20
Shipment Total	\$71.18

Return or replace your item
Visit Amazon.com/returns



0/G8GWv2Pwv/-2 of 2-//K5BD-K5BD-D/std-us-non48/0/0412-05:00/0411-22:28

C3 -
P1

1 or replace your item
Visit Amazon.com/returns



0/G7MHPdv/-3 of 3-//K5BD-K5BD-D/std-us-non48/0/0412-03:00/0411-17:45

PM7

21 FEB 2023
TUESDAY

STRETCH Pls Meeting 21 February 2023 (4-5pm PST // 2-3pm HST // 1-2pm NZDT)

Attendees: Balazs, Briscoe, Crowder, Polovina, Seminoff

200-320PM

Zoom link: <https://stanford.zoom.us/j/98452984698?pwd=VVV04UEsWW82MHpMNk1PanpLbnRadz09>

salary of
Agenda

11-16 AUG OBOB "proof of concept" ysbone

1. Greetings and brief updates - All

Samuel Philippines

2. Recent trip to Japan - George

- a. Update on cohort rearing
- b. Swayback turtles

today's

3. Deployment & Oceanography update - George, Larry, Jeff P, Dana

WARAZAKI et al. paper

- a. Possible June deployment for Year 1 cohort
- b. Physical oceanography along shipping route
- c. SST biweekly updates

try
updates
of ships

2 wk updates
"what's going on in 2023"

4. Stanford Accounts, rehiring Dana - Larry, Dana

5. Satellite tags - George

- a. Lotek 5G tag

need 1st

"changed expectations"

6. Onboard & Return considerations - George

- a. Water for turtles onboard/MOL seawater system
- b. Arrangements for PNPA/Kochi colleagues to return to Japan from Panama

7. Additional project or committee business - All

Doesn't have to be 2023
Release
2024?
"The realities of" deployment consistent year to year

ALL TEAM Meeting Wed. 4/5/23 ZOOM STRETCH 1130AM -

DANA SUBAWAD signed off DANA
had written description ^{SHORT} cc ALL of us
could be HOT year

GULF of Calif. Jeff
"2 weeks before"

5 Day before

171 to 257 w/25%

343 0%

"Getting A BAND BACK TOGETHER"

LOCATION/duration

Denise go?

-Gulf of Calif-

X Close Previous Next



Re: STRETCH: SST Report & link to view

LC

Larry B. Crowder <lbcrowd@stanford.edu>

To: You; Jeffrey Seminoff; dana kb

Cc: Polovinajeff@gmail.com; Alberto Abreu +4 others



Wed 4/5/2023 9:07 P

Brief agenda,

1. Appointments, equipment orders, contracts (Larry)
2. Emerging oceanographic conditions for 2023 deployment, Dana's temperature product (Daana)
3. Logistics for travel to Japan, tagging (mid-May to Mid-June depending on sailing dates) (Larry, George)
4. Any concerns or issues being ready in ONE MONTH to travel and tag turtles? (George and Marc)
5. Website development (Dana, Bianca, Jeff)
6. Other

See you in 20 minutes!

Larry

Larry B. Crowder (he, him, his)
 Edward F. Ricketts Provostial Professor
 of Marine Ecology and Conservation
 And Senior Fellow, Woods Institute
 for the Environment
 Hopkins Marine Station of Stanford University
 120 Oceanview Avenue, Pacific Grove, CA 93950

X Close Previous Next

NEED TO ORDER-- Temperature Data Loggers Instrumentation- to record egg nest environment during incubation

HW honu world
To: You

SAITO
~~NEED TO ORDER~~
ordered VIA STARFORD

Thu 2/9/2023 6:34 AM

From: 齊藤 知己 <t-saito@kochi-u.ac.jp>
Sent: Thursday, February 9, 2023 5:04 AM
To: honu world <itsahonuworlدينhawaii@hotmail.com>
Subject: Re: Temperature Data Loggers- to record temperature in the egg nests during incubation

Dear George-san,

Next summer, I would like to install the following two types of loggers, HOBO MX Soil Moisture and Temperature Data Logger and TidbiT v2 Water Temperature Data Logger.

I've used Tidbit v2 before, so I have a reader that connects to my PC.

*HOBO MX Soil Moisture and Temperature Data Logger ... 2 (for hatchery and incubator)

*340. x 2
680.*

<https://www.onsetcomp.com/products/data-loggers/mx230x>

HOBO MX Soil Moisture and Temperature Data Logger | Onset's HOBO and InTemp Data Loggers

Low-cost, fully integrated soil moisture loggers with convenient Bluetooth wireless data offload.
www.onsetcomp.com

*HOBO TidbiT v2 Water Temperature Data Logger ... 4 (for inside nests)

*# 169.00 EACH
x 4 676*

<https://www.onsetcomp.com/products/data-loggers/tidbi-001>

HOBO TidbiT v2 Water Temperature Data Logger | Onset's HOBO and InTemp Data Loggers

Only 3x4 cm, the tiny waterproof TidbiT v2 data logger measures temperatures over a wide range, providing 12-bit resolution and ±0.2 °C accuracy.
www.onsetcomp.com

TOTAL - 1356.

STRETCH Website Meeting Agenda & Notes

May 15, 2023 4 - 5pm PDT

Zoom link

Website link: www.loggerheadstretch.org

Password: japan

1PM HST MAY 15 MONDAY "STRETCH & PN PA OUTWIT" STORY TELLING

1. Welcome and brief updates:

General

- June 2023 deployment date (Larry/George)
- Tags and Argos updates (Marc/George)
- Naming of turtles (Larry/George)
- Meeting outcomes with GBMF team, Apr 26th (Larry/Dana/Bianca)

Diet Study (3) ALBERTO

LOGS # OUTWITTES

Website

- Website subscription status & timeline to launch (Dana/Bianca)
- Goal for today: Team feedback & discussion of remaining to-do's before site goes live

BANNER STRETCH IN JAPANESE

2. Website discussion and feedback by page:

- To optimize our discussion, please take time to review the website and content before we meet. Link and password info are provided above

Blood Sample LARRY PETER DUTTON

PANAMA TURTLES KEVIN

TOCUMEN PANAMA USA #1500 14 HOURS

- Home: Discussion of content and map/Argos updates
- Team: Still need profile photos & contact info. Please review your photo, name, title, location and contact info, providing edits if necessary. Discuss inclusion of partners & links
- Research sections
 - Background: Discussion of content
 - Overview: Discussion of content; Additional info to be added upon deployment
 - FAQ: Drafted text by Jeff S & Alberto; Addition of Oceanography text?
 - Education: Potential student intern to help (Cali)
 - Resources: Discussion of content for this page
- Blog: Review conversation to include brief updates/news feed on Map page
- Map: Discussion included above
- Translation: Discussion of translation into Spanish and Japanese. Use of plug-in and then reviewed by someone fluent in each language.

3. Any additional project business (All)

栗田 正徳 <m-kurita@nagoyaminato.or.jp>

To: You; Masanori Mori (PNPA Turtle Chief); Tomomi SAITO Wed 4/19/2023 7:46 AM

Cc: Larry B. Crowder; Jeff Polovina; Marc Rice; Dana Brisco

Colleagues,

I went to the MOL's head office in Tokyo yesterday to see the new contact personnel who took over in April and discussed the matter freshly. I've just told them that El Nino is quite likely to emerge this year and that we must get the release done successfully.

Although the ship schedule is not finalized yet, there will be none before June 10. This may not be the good timing for Balazs san and Rice san, but I'm sorry there's nothing we can do about it.

They said that they have fewer ships available this year and that the preparation is harder. Having said that, I felt through the meeting that they are very cooperative. For the following years, they'll have more ships and that'll make their work easier than this year. I requested them to think about permitting a camera crew aboard once again.

In PNPA, a loggerhead turtle laid eggs on April 23. It'll be helpful for the release 2 years out.

Masanori Kurita
Director
Port of Nagoya Public Aquarium
1-3 Minato-Machi, Minato-ku
Nagoya Japan 455-0033

Tel +81-52-654-7080
Fax +81-52-654-7001

tracking little loggerheads

GB

George Balazs

To: You



Fri 3/31/2023 3:25 AM

Tracking early-stage juvenile loggerhead sea turtles in the North-East Atlantic Ocean

Frederic Vandeperre^{1,2}, Martina Bartolini^{1,2}, Joana Batalha^{1,2}, Tony Candela^{3,4}, Andrea Herguedas^{1,2}, Philippe Gaspar³, Peter Leijen⁵, Françoise Lima^{1,2}, Hugo Parra^{1,2}, Ana Mafalda Sousa^{1,2}, Julien Temple-Boyer³, Sean Williamson^{4,6}, Jeanette Wyneken⁶, George L. Shillinger⁴

¹Institute of Marine Sciences - Okeanos, University of the Azores, Horta, Portugal; ²Institute of Marine Research - IMAR, Horta, Portugal; ³Mercator Ocean International, Toulouse, France; ⁴Upwell, Monterey, California, USA; ⁵Lotek Wireless, Inc.; ⁶FAU Marine Lab, Florida Atlantic University, Florida, USA

The oceanic juvenile stage remains one of the most enigmatic life stages of loggerhead sea turtles (*Caretta caretta*). The dispersal, oceanic habitat and movements of the youngest age classes in particular remain poorly known. After hatching, these small sea turtles disperse over vast oceanic areas only to return to neritic areas many years later, a period often referred to as the "lost years". The Azores is an oceanic archipelago in the central North-East Atlantic, and one of the few places where all juvenile age-classes of oceanic juvenile loggerheads can be found, from young-of-the-year to late oceanic juveniles, with sizes ranging from 7.8 – 82 cm CCL. To investigate the movements of early juveniles, we equipped 30 small loggerheads measuring between 13.8 and 33.2 cm CCL (mean 19.6 ± SD cm CCL) with novel miniature Argos satellite tags (Lotek). All of the turtles, with one exception, were wild caught, by hand or with dip nets. One turtle was found stranded on the beach and rehabilitated at the Aquário do Porto Pim (Horta, Faial, Portugal). The turtles were released in 4 separate batches between November 2021 and June 2022. Days at liberty ranged from 8 to 188 days (mean: 63.5 ± 38.1 SD days).

We will present the first results of this tracking experiment and discuss the movements, behaviour and habitat use of the turtles in relation to oceanographic features, such as sea surface temperature, productivity and ocean currents. This study is an important step towards a better understanding of their pelagic ecology and habitat in the open ocean in support of their conservation.

11:00 AM 100% 100%



Re: STRETCH Website Meeting Notes from May 15th

Zoom 5-18-2023

DB Dana K Briscoe <dbriscoe@stanford.edu>    ...
To: You; Jeffrey Seminoff; Alberto Abreu; E Thu 5/18/2023 12:32 AM

Hi Team,

Thanks for a great meeting the other day and for all the helpful feedback as we move closer to next month's exciting release!

Bianca & I met today and will continue to incorporate all suggestions that came out of our Monday discussion. For a very high-level recap and note of next steps, I have put together a short summary of our main website discussions below, and to the agenda on the [google doc](#). Please feel free to make any additions to anything I missed.

We'll plan to incorporate all updates by next Weds (May 24th). We'd like to ask that folks take a moment between then (next Weds) and next Friday (May 26th) to provide one more review as we near a final version.

Thanks!
Dana

Website Meeting (May 15) | Post-Meeting Updates & Action Items:

Website Feedback & Updates:

- Team info:
 - **Action Item (All):** If you have not done so, please check your bio & contact info for any corrections
 - Additions for Mori-san and Noah Yamaguchi
- Photos & videos:
 - Working with Ralph Pace to purchase photos for use
 - Bianca & I will do final check for all photos (copyright access & assigning photo credits)
 - Addition of video on Home page
- Blog:
 - **Action Item (All):** Please contact Marc if you would like to be added as an Editor to his linked blog
 - To complement Marc's blog, Bianca & I are exploring the plug-in to provide a short 2-3 sentence 'latest update' with the updated tracks/map

- Outreach & Education:
 - Call with be working with her incoming summer intern to develop and curate content for these pages
- Translation:
 - Plug-ins only provide the 'switch' between languages. Translations will need to be done separately.
 - Steps for translation:
 1. Bianca & I will use Google Translate to manually translate sections
 2. We will create Spanish/Japanese versions of each web page. We will focus on static content for now (text that will not change or be updated regularly, but will need to revisit a plan for this)
 3. We will use the multi-language plug-in to allow user to easily access versions in their language of choice
 4. All pages & content will then need to be proof-read and updated for grammar/correction usage
 - Spanish: Alberto has kindly offered to help proof-read
 - Japanese: Proof-reader to be confirmed

Timeline

- Bianca & I will continue incorporating all feedback from our May 15th meeting by next Weds, May 24th.
- **Action Item (All):** Please review and provide any additional comments to Bianca or me by **next Friday, May 26th**
- At this time, we hope to have a beta version to begin the translations of static content

Thurs. 18 - Friday 19 MAY 2023 OVERNIGHT AT MARC'S TO RUN 24 (GZ) SPOT 6 381 TAGS



Boarding pass

TSA Pre✓

Name: **BALAZS/ GEORGE**

Flight: **HA 278 Z**

Departs: **12:15P Honolulu/HNL**

Arrives: **1:06P Kona/KOA**

Lyft#: *******9970**

HACC

Date: **18MAY23**

E-ticket: **1732300559910**

Stop:

Conf: **6HR9NG**

Name: **BALAZS/ GEORGE**

Flight: **HA 278 Z**

Departs: **12:15P**

Arrives: **1:06P**

Lyft#: *******9970**

HACC

BOARDING START	GATE	SEAT	ZONE	BOARDING CLOSES
11:50A	A19	13E	4	12:00P

Bag count / Bag tag #

GATE	A19
SEAT	13E
ZONE	4



Local ID	CITES ID	Trovan PIT Tug ID (Right hindlimb)	Inconel Tug No. (left forefoot)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)
		Installed on 12/5/2022		Measured on 12/5/2022			Meast
CeW21-01	①	00013C598A	5325	31.6	25.6	5.6	33.3
CeW21-02	②	00014356AB	5324	29.4	24.9	4.6	30.4
CeW21-03	③	0001334416	5323	36.9	30.0	8.8	38.3
CeW21-04	④	000133EF35	5322	33.5	28.1	6.7	34.5
CeW21-05	⑤	0001BBF972	5321	31.1	26.1	5.3	32.6
CeW21-06	⑥	0001324346	5320	29.9	25.8	5.4	32.4
CeW21-07	⑦	0001BC07EB	5319	30.5	25.2	4.7	31.9
CeW21-08	⑧	0001336970	5318	31.4	26.3	5.2	33.1
CeW21-09	⑨	00013AA23F	5317	31.4	26.8	5.9	33.0
CeW21-10	⑩	00013265A4	5316	28.6	24.0	4.2	29.7
CeW21-11	⑪	0001DA5E7C	5315	28.0	24.9	4.1	29.5
CeW21-12	⑫	000132E881	5312	30.0	25.4	4.9	31.1
CeW21-13	⑬	0001335566	5311	31.4	26.6	5.4	32.6
CeW21-14	⑭	000133050A	5310	28.4	24.0	4.2	29.4
CeW21-15	⑮	0001339F06	5309	27.8	24.4	4.0	28.9
CeW21-16	⑯	000133B533	5308	31.4	26.1	5.5	32.8
CeW21-17	⑰	0001323FD3	5307	29.4	24.7	4.4	30.4
CeW21-18	⑱	000134223F	5306	30.9	25.2	5.1	32.3
CeW21-19	⑲	000132E8CF	5305	31.9	28.2	5.7	33.3
CeW21-20	⑳	0001DB6005	5304	31.1	26.3	5.4	32.6
CeW21-21	㉑	0001DB5F78	5303	30.1	25.6	5.0	31.6
CeW21-22	㉒	000133F18B	5366	31.3	26.1	5.7	32.7
CeW21-23	㉓	0001BC0968	5362	30.0	25.7	5.1	31.3
CeW21-24	㉔	00013293F4	5368	31.3	26.5	5.1	32.5
CeW21-25	㉕	0001325205	5365	29.1	24.9	4.4	30.5
CeW21-26	㉖	0001325A40	5367	28.8	25.7	4.8	29.6
CeW21-27	-	0001334BB0	5369	30.9	25.0	4.5	32.2
CeW21-28	-	0001332707	5314	28.3	26.3	4.7	28.6
CeW21-29	-	0001325F69	5313	25.8	25.2	3.7	26.5

Change of water temperature setting	
~Nov. 22	27.0
Nov. 23	26.0
Nov. 30	25.0
Dec. 8	24.0

Dec. 14	23.0
Dec. 20~	22.0

SCW (cm)	BW (kg)
-------------	------------

red on 1/3/2023

26.8	6.4	
25.9	5.0	
31.2	10.0	Largest individual ✓
29.2	7.7	
27.3	6.0	
27.1	6.1	
26.3	5.5	
27.5	6.0	
27.8	6.8	
25.0	4.6	
25.3	4.7	
26.5	5.3	
27.7	5.9	
25.1	4.7	
25.2	4.6	Min. individual ✓
27.1	6.2	
25.6	5.0	
26.3	5.9	
29.3	6.4	Slightly deformed carapace
27.3	6.2	
26.6	5.9	
27.1	6.3	
26.7	5.7	
27.7	5.9	
25.8	5.0	
26.7	5.3	Slightly deformed carapace
26.7	5.9	An individual with a transmitter attached for testing
26.7	4.8	Carapace large and deformed
25.8	4.0	Carapace large and deformed

* THURSDAY, JANUARY 26, 2023

Trains and vehicles stranded amid cold snap

Heavy snow causes chaos across nation

KYODO

Heavy snow continued on Wednesday across much of Japan as the country grappled with the most severe cold snap of the season so far, with trains and vehicles stranded due to difficulties caused by the winter storms.

Record cold temperatures were seen in parts of Japan, with snow falling on the Sea of Japan coast stretching from the country's north to west. Amid concerns of further snowfall, including in low-lying areas on the Pacific coast, Japan's weather agency called for vigilance against blizzards, rough seas and icy roads.

The weather brought widespread disruption. Thousands of people using local train services in Kyoto and Shiga prefectures were forced to stay overnight in carriages or stations, while vehicles on major roads across the country were left stranded and hundreds of flights canceled.

At least one person has died and two more deaths are being investigated in connection with the cold weather, Chief Cabinet Secre-

tary Hirokazu Matsuno told a news conference in Tokyo.

Among the effects on transportation, Japan Airlines and All Nippon Airways said more than 300 flights scheduled for Wednesday were canceled.

On local railways, passengers were stranded on several trains on the Biwako Line and Kyoto Line overnight from Tuesday due to snow and strong winds, operator West Japan Railway said. The company reported delays and cancellations on around 20 of its lines, including express services, through Wednesday morning.

The Kyoto Municipal Government said that around 1,700 people at Yamashina Station and 2,300 people at Kyoto Station were left stranded.

Some passengers reported feeling unwell and had to be taken away by ambulance. Masahiro Nishikawa, a 48-year-old who spent the night in an underground passage at Kyoto Station, said, "We only got one thermal sheet each from staff, I couldn't sleep because it was so cold."

Order: 108 Abstract ID: 1618 Type: Poster Subject: Behavior and Movements

**USING HYDROACOUSTICS TO PREDICT HABITAT USE OF FORAGING
JUVENILE LOGGERHEAD TURTLES IN BAJA CALIFORNIA SUR, MEXICO**

^{BRISCOE}
Dana K. Wingfield¹, S. Hoyt Peckham¹, Donald A. Croll¹, Wallace J. Nichols², Kelly Newton¹, and Egle Flores³

¹ University of California, Santa Cruz, USA

² California Academy of Sciences, USA

³ Universidad de las Americas Puebla, Mexico

Predicting habitat use of highly migratory endangered megavertebrates can be useful in reducing fisheries mortality. In addition, habitat use of a full range of pelagic species show strong correlation to trends in the distribution and abundance of their prey (Croll *et al.*, 2005). Studies by Peckham and Nichols (2002 and unpublished data) have shown that juvenile loggerheads (*Caretta caretta*) foraging off Baja California Sur (BCS) feed primarily and exclusively on the pelagic red crab (*Pleuroncodes planipes*). We are developing an integrated approach for testing the hypothesis that loggerhead distribution can be predicted by the distribution and abundance of swarms of red crabs in the water column. We will test the efficacy of measuring prey abundance by using hydroacoustics to chart red crab aggregations along the inshore edge of loggerhead foraging hotspots. Preliminary results show targets that appear to be red crab frequency and density increase along transects of increasing loggerhead abundance. We conclude that hydroacoustic surveys are useful in ascertaining red crab distribution within loggerhead hotspot areas. In 2006 we will be initiating hydroacoustic surveys on larger vessels to map red crab abundance across a full range of loggerhead abundance, onshore and offshore.

Acknowledgments: DKW gratefully acknowledges travel support from Disney Animal Kingdom, Western Pacific

2006

ISTS

26

Severest cold spell so far this

1/23/2023

THE JAPANESE

The Yomiuri Shimbun

This season's severest cold spell so far is forecast to envelop the Japanese archipelago from Tuesday through Thursday, likely causing heavy snowfall and freezing temperatures across a wide swath of the nation.

For central Tokyo, Osaka, Nagoya and Fukuoka, the Japan Meteorological Agency is warning of snow accumulation and traffic disruptions as the low temperatures are expected to be below zero over several days.

Hokkaido was among the areas of Japan that on Saturday experienced snowstorms due to a strengthening

winter pressure pattern, the JMA said.

There will be a slight break in the cold weather, but from Tuesday intense cold air ranging from minus 12 C to minus 21 C or lower sitting 1,500 meters above Japan will cause low temperatures.

The Japan Sea polar air mass convergence zone, known as JPCZ, may develop to bring bands of snow clouds that can cause heavy snowfall in a short period of time on the Japan Sea coast.

In addition to concerns about water pipes freezing and icy roads, experts also urged people to be careful of thermal shock due to sudden temperature changes going indoors and out-

season forecast to hit Japan

doors.

The Tokyo metropolitan government's Waterworks Bureau has tweeted to remind residents to be careful of water pipes freezing, suggesting measures such as insulating pipes to protect them from the cold air.

Some expressway companies said that certain road sections might be closed, especially along the Japan Sea, through Thursday.

"I advise people to adapt to the temperature by putting on warmer wear, not only when going outdoors, but also when moving from the living room to the colder hallway or bathroom so as to prevent thermal shock,"



The Yomiuri Shimbun

Pedestrians walk through the snow in Otaru, Hokkaido, on Saturday.

said Nobue Kunizaki, head of the Risk & Crisis Management Education Institute Co. in Tokyo.

GBA
Early Draft

Gordon and Betty Moore Foundation
Movement Ecology Initiative

OVER

"Sea Turtle Research Experiment to test the Thermal Corridor Hypothesis" Larry B. Crowder (PI), Dana W. Briscoe (Co-PI), George H. Balazs (Co-PI), Jeff A. Seminoff (Co-PI)

	2023	2024	2025	2026	2027
Direct Cost Budget					
Total					
Salaries (plus 30% benefits)					
LBC (1 month summer)	30K	(increase 3% per year)			
DWB (50%)	91K	(increase 3% per year)			
Ocean Data Scientist					
Website Developer/Maintenance	50K	20K	20K	20K	
Bianca (PostDoc)			70K	(increase 3% per year)	
Equipment					
Satellite Tags and Argos Time (25 per year@\$4K)	100K	100K	100K	100K	
Computers, servers, graphics plotters	12K	5K			
Contract for services					
Rearing Loggerhead Sea Turtles (Port of Nagoya Aquarium appropriate support for Japanese Partners?)	30K	30K	30K	30K	(increase to provide)

146

北日航関西空港

西エアポート株式会社
長野県長野市北日航ビル (026) 455-1111
〒111-1111 東京都千代田区千代田 5-19-0001, Japan
http://www.nikko-hotel.com



Nikko HOTEL

MR GEORGE HARVEY BALAZS
MEMBERSHIP NO.
203753638

Member

George Harvey Balazs

NAME MR. GEORGE HARVEY BALAZS

ROOM No. 10067
ARR. 2023/01/22
PAX 1
DEP. 2023/01/23

DATE 01/22 HOTEL STAY PLAN 10067 CHARGES 13,320 CREDIT EXPLANATION 1

IDENTIFICATION CARD

ご宿泊確認書

1/22/2023

Nikko HOTEL

Room No. 10067
お部屋番号

Room Rate
お部屋料金

ご客名 MR. GEORGE HARVEY BALAZS
Name

No. of Guest(s) 1
ご利用人数

Arrival Date 2023/01/22 Departure Date 2023/01/23
ご到着日 ご出発日

Deposit お預かり金 現金 Cash クーポン Coupon



1/22/2023

加盟店名 HOTEL NIKKOKIX52 Nikko
072-455-1111
端末番号 49712-560-60553
ご利用日 23/01/22 20:28:17
伝票番号 14915
会員番号 XXXXXXXXXXXXX4036(1C)
承認番号 045454
取引内容 | 支払区分 | 取扱区分
売上 | 一括 | 110
カード会社 有効期限
ヒザ/マサ XX/XX
金額 ¥13,320
△お会計額 ¥13,320

BALAZS GEORGE
ご利用ありがとうございました
またのご来店お待ちしております
A0000000031010
5493737 C03 A00033 VISA
売場: 係員:

00
7b29a515c8eb8f67

お客様控え

11-14-2022

Transaction ACCOUNTING MEMO
Kansai - Int L/Side Arr Lobby North

TRANSACTION ID DATE TIME
6153-99-12073 14-Nov-2022 19:21

Sales Consultant (1398)

EXCHANGE USD 600

United States Dollar	600.00
We BUY Currency @ 134.2800	
Japanese Yen	80,568
Commission	0
Commission Adjustment	0
Nett Commission	0
Fee(s)	0
Sub-Total	80,568

Transaction Sequence No: 4RQC-Y7TR

KIX AIRPORT

Kansai-Int 1 L/Side, Arr Lobby North,
1F Terminal Bldg., 1Senshu kuko Kita
Izumisano-shi, Osaka Japan 549-0001.
Tel:072-447-5472.

We will get through this together and soon to be normal routine. Travelex Japan pray for you and your family good health. Sincere appreciation for visiting Travelex Japan today. #wearetogether

You can enjoy preferential rate upon showing this transaction memo.

SUMMARY

Total Commission	0
Total Fee(s)	0
Sub-Total	80,568
Total Pay:	80,568

ANA CARDNET HOTEL
SERVICE INFORMATION

This service allows you to pay in your home currency.

JPY AMOUNT	JPY 102,000
USD AMOUNT	USD 754.80
EXCHANGE RATE*	JPY 1 = USD 0.0074

Please select currency
CARDNET for payment
Select on PINPAD

Push F1 Button
Push F2 Button
It will be based on the
SALE INTERMEDIARY
and includes a margin.

11-16-2022

[NFC Payment売上票] G

加盟店名 カナタ
 カナタ カナタ
 052-681-0041
 端末番号 49664-560-38847
 ご利用日 22/11/16 19:57:37
 伝票番号 00532
 会員番号 XXXXXXXXXXXX4036(RF)
 承認番号 021304
 取引内容 売上 | 支払区分 一括 | 取扱区分 110
 カナタ 会社 | 有効期限 XX/XX
 MUF カナタ

金額 ¥2,200
△引金額
合計金額 ¥2,200

CARDHOLDER/VISA

ご利用ありがとうございました
またのご来店お待ちしております

A000000031010
S454328 003 A00022 ENV
VISA payWave

売場: 係員:

00
AFC3841AC07A2005
INFOX

お客様控え

11/15/22 LUNCH

クレジット売上票

加盟店名 **タリーズカフェ**
 MERCHANT 06-6305-5096
 端末番号 71111-620-45975
 ご利用日 2022/11/15 12:26:20
 会員番号 438857*****4036 IC

ACCT #
 カド会社 CARD COMPANY エイサー/229-
 承認番号 APP CODE 0085920
 処理通番 TRAN NO 0222300

取引内容 伝票番号 有効期限
 売上 03223 XX/XX
 支払区分 取扱区分 商品区分
 一括 110 990

金額 **¥900**

AMOUNT CARDHOLDER/VISA
 ご利用ありがとうございました
 またのご来店をお待ちしております
 ARC 00 ATC 00018 No.03
 AID A0000000031010
 VISA
 APP LABEL VISA CREDIT
 売場 SALES 係員 CLERK
 GMO-FG お客様控え

寿司本家

株式会社 札幌かに本家
 愛知県名古屋市中村区名護1-17-20

11/16/2022

寿司本家 金山店
 052-681-0041
 2022/11/16 (水) 19:50

0960-000000000072-0001
 1名

飲食
 110円皿 ¥110
 390円皿 ¥390
 560円皿
 お酒 0560 x 2個 ¥1,120
 ¥580

合計 5点 **¥2,200**
 (内消費税等 (10%対象) ¥200)
 クレジットカード 標準税率 1 ¥2,200

会計担当 加藤
 カド担当 加藤
 011-9170993

11-15

(M)

マクドナルド 関西国際空港店
 京佐野市泉州空港北1番地
 072-488-7528
 営業時間 24時間営業
 マックカフェ 6:00-22:30

KAO SAI

55 09 NO 04 2022年11月15日 (火) 07:03

(7"リト"8"ノ"エ"3"イ7"セト) 530 (21) ¥1,260
 M7"リト"8"ノ"エ"3"イ7"
 ノ7"リト"8"ノ"エ"3"
 プレ7"リト"8"ノ"エ"3"

小計 63 ¥1,260
 (内消費税 ¥114)
 10%対象 ¥1,260
 (内消費税 ¥114)
 合計 ¥1,260
 クレジット支払 **¥1,260**
 おつり 40

クレジット VISA/MasterCard IC売上
 伝票番号 VISA 8211
 会員番号 *****4036
 承認番号 0027784
 上位端末ID 0824684960472
 AID A0000000031010
 VISA CREDIT

11/17/2022
 (Y) マクドナルド金山店
 名古屋市中央区金山4-6-25
 052-321-3157
 営業時間 24時間営業

78 レジNO 01 2022年11月17日 (木) 07:51

(レギュラーBFソーダ)	730	(13)	¥730
レギュラーBFソーダ		13	
フレッシュ		13	
ミニマイトM		13	
プレミアムソーダ	150	13	¥150
バーガー	0	13	¥0
ホットキッシュ	0	13	¥0
スナックバー	0	13	¥0
ソーダ	0	13	¥0
小計		83	¥880
(内消費税)			¥80
10%対象			¥80
(内消費税)			¥80
合計			¥880
クレジット支払			¥880
おつり			¥0

クレジット CL売上
 VISA/MasterCard 2542
 伝票番号 *****4036
 会員番号 0048004
 承認番号 0824684039753
 上位端末ID A0000000031010
 AID VISA CREDIT

注) *印は軽減税率(8%)適用商品
 スマホアプリでお客様の声を聞かせてください
 アンケートの御礼にクーポンを差し上げます
 マクドナルド公式アプリから「KODO」にアクセス
 ください

1-178

セブン-イレブン

名古屋金山駅南口店
 愛知県名古屋市熱田区金山町1丁目
 2-1
 電話: 052-683-0577 レジ#1

2022年11月18日 (金) 16:44 責101

領収書

サッポロ黒ビール缶 350ml			
②210x 2			420
7P ハーフトースタック			¥100
チンパン-缶350ml			
②210x 2			420
7Pプレミアムうにせん			¥138
小計 (税抜 8%)			¥238
消費税等 (8%)			¥19
小計 (税抜10%)			¥840
消費税等 (10%)			¥84
合計			¥1,181
(税率 8% 対象)			¥257
(税率10% 対象)			¥924
(内消費税等 8%)			¥19
(内消費税等10%)			¥84
クレジット支払			¥1,181

お買上明細は上記のとおりです。
 [*]マークは軽減税率対象です。

クレジット売上票
 (お客様用)

ご利用日 2022年11月18日
 会員番号 *****4036
 支払方法 1回CL 承認番号 032024
 金額 ¥1,181
 APL名 VISA CREDIT
 AID A0000000031010
 伝票番号 221-118-166-4891

STAY? Miyuki HANER
11-18-2022
マクドナルド金山店
名古屋市中央区金山4-5-25
052-321-3157
営業時間 24時間営業
3レシ NO 02 2022年11月18日 (金) 07:53

(レシーブ) 470 (11) (470)
レシーブ
レシーブ
レシーブ

合計 37 ¥470
(内消費税 0%対象) ¥42
(内消費税) ¥42
合計 ¥470
クレジット支払 ¥470
おつり ¥0

EEL

クレジット
VISA/MasterCard
カード番号
会員番号
承認番号
上位端末ID
AID
0824684039
40000000031010
VISA CREDIT

注) *月は軽減税率(8%)適用商品
スマホアプリでお客様の声を聞か
アンケートの御礼にクーポンを差
マクドナルド公式アプリから
ありがとうございます

NAKATIMA BEACH
1-203
GOLD FISH TADN

150

11/18/2022 Lunch

クレジット売上票
加盟店名 レストラン アリバタ
MERCHANT 052-654-3808
端末番号 84029-620-46180
ご利用日 DATE 2022/11/19 12:40:16
会員番号 438857*****4036 IC

ACCT #
カード会社 CARD COMPANY ビザ/マスタ
承認番号 APP CODE 000495D
処理通貨 TRAN ISO 0393068
取引内容 伝票番号 有効期限
売上 02969 XX/XX
支払区分 取扱区分 商品区分
一括 110 310

金額 ¥1,680

AMOUNT
CARDHOLDER/VISA 様
ご利用ありがとうございます
またのご来店をお待ちしております
ARC 00 ATC 00028 No.03
AID A0000000031010
VISA
APP LABEL VISA CREDIT
売場 SALES 係員 CLERK
GMO-FG お客様控え

AR BATA
RESTAURANT

11/19/2022 Lunch

アリバタ
愛知県名古屋市港区
名古屋港水族館 南館2F内
TEL 052-654-3808
店No-000000000001-0001
2022/11/19 (土) 12:41
伝票No-00323
11 1名

EAT-IN
シャークバーガー ¥1,680

合計 1点 ¥1,680
(内消費税等 ¥152)
10%対象 ¥1,680
(消費税等 ¥152)
クレジット 1 ¥1,680
104 ビザ/マスタ-
4036
02969

担当 内山
15661

Nov 2022

11-15-22

区間変更券 (幹) R537
C制 (4-タ)

関西空港 → 名古屋市市内

11月15日から11月17日まで有効 ¥4,730

乗車表示の都区市内各駅下車前迄有効
2022.11.15 乗車券 ¥1,390
50915-02 新大阪駅F80発行

領収書

11/15/22

Receipt 領収年月日 2022.11.15 様

金額 ¥6,410 (消費税等込み)
(クレジット扱い)

購入商品 JR乗車券類 JR tickets
(50915 2枚)
西日本旅客鉄道株式会社
新大阪駅
新大阪駅F80発行 60916-01

印紙税申告納
付につき大淀
税務署承認済

乗車券 (幹)
C制 FARE TICKET

11/20/22

(中) 金山 → 新大阪
KANAYAMA SHIN-OSAKA

Nov. 20 (VALID 2 DAYS) ¥3,410

2022.11.20 (中) 金山駅R2発行
60251-01 (3-)R544053 巻1

乗車券
使用済

152

11/20/22

[C制] 新幹線特急券
 SUPER EXP. (RESERVED)
 名古屋 → 新大阪
 NAGOYA → SHIN-OSAKA
 NOV. 20 (12:23発) (13:12着) C61
 NOZOMI 223 CAR. 12 SEAT. 20-D S
 ¥3,270
 H03060

R544
 2022.11.20 (中) 全山駅MR2(3-) 60251-02

11-20-22

[C制] B自由席特急券
 LTD. EXP. (NON-RESERVED)
 新大阪 → 関西空港
 SHIN-OSAKA → KANSAI AIRPORT
 NOV. 20 (VALID 1 DAY)
 Valid for only one trip
 ¥990

2022.11.20 新大阪駅F80発行
 40991-01 (4-)R552C01

11-22-2022

[C制] 乗車券
 FARE TICKET
 新大阪 → 関西空港
 SHIN-OSAKA → KANSAI AIRPORT
 經由: 東海道・大阪環状・阪和・関西空港線
 NOV. 20 (VALID 1 DAY) ¥1,390
 No stopover permitted

2022.11.20 新大阪駅F80発行
 40991-02 (4-)R552C43

1-430
 TABLE
 15

ASAHI
酒場ちりり

〒637-0011大阪府池田市南中道5-16-1 24749c新大阪内
池田駅前5丁目 (TEL) 06-4862-6278

毎度ありがとうございます。
又の御来店をお待ちしております。

領収書

2022年11月20日 15:56

伝票:01-8602
テーブル:0000
オーダー:14-17
精算帯:14-17
人数:0002

PAPA
GIFT
SHOP

TOとんかつ弁当 1,460.00
(2 730)

小計 1,460
(内消費税) 108
合計 1,460

外ゲット 104 1,460

8%対象 1,460
消費税 108

は軽減税率対象

914 001/01

11/20/2022

クレジット売上票

加盟店名 材加和
MERCHANT 06-4862-6278
端末番号 TERM No 71111-620-42147
ご利用日 DATE 2022/11/20 15:59:03
会員番号 410039*****5769 IC

会社名 CARD COMPANY ビザ/マスタ
承認番号 APP CODE 0534170
管理番号 TRAN No 081986/
取引内容 伝票番号 有効期間
売上 01504 XX/XX
支払区分 取扱区分 商品区分
一括 110 310

金額

¥1,460

AMOUNT BALAZS/GEORGE 様

ご利用ありがとうございました
またのご来店をお待ちしております

ARC 00 ATC 00540 No.01

AID A0000060031010

VISA

APP LABEL VISA CREDIT

売場 SALES 係員 CLERK

GMO-FG

お客様控

154

11-20-22

(M) マクドナルド関西国際空港店
 泉佐野市泉州空港北1番地
 072-488-7628
 営業時間 24時間営業
 マックカフェ 6:00-22:30

36 LYN0 04 2022年11月15日 (火)08:00

アメリP&D-ストロ-ヒ-S	120	1コ	¥120
XTRA コ-ヒ-ナム		1コ	
アメリP&D-ストロ-ヒ-S	120	1コ	¥120
ツカサコヨコ"イチゴ"	200	2コ	¥400
小計	4コ		¥640
(内消費税)			¥58
10%対象			¥640
(内消費税)			¥58
合計			¥640
クレジット支払			¥640
おつり			¥0

クレジット
 VISA/MasterCard
 伝票番号 8265
 会員番号 *****4036
 承認番号 0038774
 上位端末ID 0824684060472
 A10 40000000031010
 VISA CREDIT

注) *印は軽減税率(8%)適用商品
 スマホアプリでお客様の声を聞かせてください
 アンケートの御礼にクーポンを差し上げます
 マクドナルド公式アプリから「KODO」にアクセ
 スください

1-436

TABLE
15

11-20-2022

ESPRESSO & BAKERY

ESPRESSO & BAKERY 072-456-6526

大阪府泉佐野市泉州空港北1番地
北ウイング2階

タリアVERGNANOコーヒ-
 イス製Premiumコーヒ-マシン
 ランス直輸入ペ-カリー
 るでヨーロッパ
 ♪ a nice flight!!

2022年11月20日 (日) 19時14分000101

パケッットサント H&Mスター	¥630
アップルデニッシュ	¥360
ミックスナッ	¥500
オレンジーナ	¥300

ト 計 額	¥1,790
10%外税対象	¥1,790
10%外税額	¥179
税TAX 計	¥179
合 計	¥1,969
売掛支払	¥1,969
(税TAX 計	¥179
合計点数	4点
87扱	No.6700 1名

」は軽減税率対象商品です。

デニース
11/20/2022

デニース金山駅前店 08032111698
愛知県名古屋市中区金山
1-14-9 長谷川ビル2F
2022年11月20日(日) 11:21 0183

領収証

アボカドチーズHB&パンケ ¥1,19
 選るシーザーサラダM ¥66
 フランブル&チーズフトー ¥990
 NO:002585

計 ¥2,841
 消費税 ¥2,840
 率10%対象額 ¥2,840
 消費税等10% ¥258
 外割り ¥2,840

クレジット支払
(お客様控え)

会員番号(下4桁) 4030
 伝票番号 0011409
 取引内容 売上 IC(PIN入) 212 VISA
 カド会社 046390
 承認番号 256621
 センター処理通番
 AID
 A0000000031010
 支払額(一括) ¥2,840
 店番01834
 暗証番号入力は省略させていただきます
 撥者: 001 No.114091 3名

私たちと一緒に働きませんか?

パート・アルバイト
募集中!!



※時間はお気軽にご相談ください

11/20/2022

ESPRESSO&BAKERY I
072-456-6526
 端末番号 49712-560-60514
 ご利用日 22/11/20 19:15:30
 伝票番号 04481
 会員番号 XXXXXXXXXXXX4036(RF)
 承認番号 059234
 取引内容 支払区分 取扱区分
 売上 一括 110
 カド会社 有効期限
 ビザ/マスタ XX/XX
 金額 ¥1,969
 合計金額 ¥1,969
 合計金額

CARDHOLDER/VISA
 ご利用ありがとうございました
 またのご来店お待ちしております
 A0000000031010
 S439478 003 A00032 EMV
 VISA payWave
 売場: 係員:

00
27787A7EBE6F3CF3
INFOX

お客様控え

領収書
 領収書比 2
 店番 2
 金額 ¥6,680円
 「消費税等込み」

但し、乗車券類(クレジット扱い)として

2022年11月20日
東海旅客鉄道株式会社

※ いただきましてありがとうございます

印紙税申告納
付につき名古屋中村
税務署承認済

現金出納社員



Nikko HOTEL IDENTIFICATION CARD
ご宿泊確認書

Room No. 7034 Room Rate
お部屋番号 お部屋料金

ご芳名 MR. GEORGE BALAZS
Name

No. of Guest(s) 1
ご利用人数

Arrival Date 2022/11/14 Departure Date 2022/11/15
ご到着日 ご出発日

Deposit
お預かり金 現金 Cash クーポン Coupon

NOV 2022

世界各地の6,000以上のホテルやリゾートで、IHG®リWARDSの多彩な特典とIHGリWARDSポイント獲得をお楽しみください。ポイントは無料宿泊特典をはじめとする数々の素晴らしい体験にご利用いただけます。

特典の詳細は、
IHG.com/RewardsJP または
IHG®アプリにてご確認ください
ANA CROWNE PLAZA
Enjoy exclusive benefits and earn IHG® Rewards points at 6000+ hotels and resorts worldwide to redeem for Reward Nights, unparalleled experiences and more.
Unlock your rewards at IHG.COM/Rewards or download the IHG® App

客室番号: 2119
Room:

Wi-Fi: grandcourt
Wifi:

宿泊日数: 1/23 - 27/
2023
of nights:

king.c
Hotel the a
徒歩:
Address Japan
Phone
GPS C

city service charge

「クレジットカード売上票」
CREDIT CARD SALES SLIP

加盟店名 新ナグoyaホテル
MERCHANT NO. 682444H
利用日 2023/01/27 09:08:26
カード番号 CARD NO. 43857000004036

伝票番号	有効期限	取引内容
09838	XX年XX月	売上
SLIP NO.	EXP. DATE	IRAN TYPE
支払区分	取扱区分	商品区分
一括	110	0300
PMT. TYPE	DUM CODE	
端末番号 TERMINAL	55094-510-12853	
カード会社	MFCap-ト(105)	
CARD COMPANY		
承認番号 APPROVAL CODE	048144	
処理通番 TRAN. NO.	021244	
金額 AMOUNT	¥ 71,586	
△社金額	¥ 71,586	
△社金額	¥ 71,586	
TOTAL AMOUNT		
ARC00 ATC002B No.01 *2a996640000*		
4000000031010		
VISA CREDIT		
売上 SALES CLINIER		
お客様控え CUSTOMER COPY		

ANA CROWNE PLAZA
AN IHG® HOTEL
TEL GRAND COURT NAGOYA

INVOICE

会社名 /Company :
エージェント名 /Agent : Individual Hotel Web Site (Op
売掛番号 /AR No. :
備考 /Remarks :

1/2023

ご出発 /Departure : 2023年01月23日
人数 /No. of guest : 1
客室番号 /Room No. : 2119
X/P-番号 /IHG® Rewards Club : 276925712
明細番号 /Folio No. : 220424
担当 /Cashier : Front2-1
ページ /Page No. : 1 of 1

日付 Date	摘要 Description	備考 Reference	ご利用 Debit	お預かり Credit
01-23-23	Accommodation		15,714	
01-24-23	Accommodation		17,460	
01-25-23	Accommodation		17,460	
01-26-23	Accommodation		20,952	
01-27-23	Credit Card			71,586

NA
ANA Cr
Hotel G
1-1-1 Ka
Nagoya
Japan
Reserv
Front D

NOV 2022

KIX

Booking Confirmation

CONFIRMATION NUMBER: 3463.108.398

PIN CODE: 8493

168



Hotel Nikko Kansai Airport - 3 mins walk to the airport (ホテル日航関西空港 (関西空港へ徒歩3分))

Address: Senshu-kukou Kita 1, Izumisano, 549-0001, Japan

Phone: +81 72 455 1111

GPS Coordinates: N 034° 26.193, E 135° 14.569

CHECK-IN
14
NOVEMBER
Monday
from 2:00 PM

CHECK-OUT
15
NOVEMBER
Tuesday
until 12:00 PM

ROOMS NIGHTS
1 / 1

OUT

arty service charge

\$66
\$7
\$7

approx. \$80

¥11,520

NAGOYA

Rm 2305

ANA Crowne Plaza
Hotel Grand Court Nagoya

1-1-1 Kanayama - Cho
Nagoya-shi, Aiti [Aichi] 4600023
Japan

Reservations 1 877 2 CROWNE
(1 877 227 6963)

Front Desk 81-52-6834111

5 nights

TOTAL ¥102,000

TOTAL ¥102,000

Rate Per Night 20,400.00 JPY

(Includes taxes and fees)

Itemized nightly rates, taxes, and fees for 1 room

TUESDAY NOV 15 2022- 17,000.00 JPY

THURSDAY NOV 17 2022

THURSDAY NOV 17 16,000.00 JPY

2022-FRIDAY NOV 18 2022

FRIDAY NOV 18 2022- 21,000.00 JPY

SATURDAY NOV 19 2022

SATURDAY NOV 19 31,000.00 JPY

2022-SUNDAY NOV 20 2022

OUT

169
Jan. 2023



JAPAN RAIL PASS
(GREEN 7DAYS)

576
-34

2023-1.23~2023-1.29
YEAR-MONTH-DAY (片道 7日間用)



This pass is
non negotiable.
Insert it in ticket
cases and don't
forget to take it.

¥39600(A)

(4-タ) 00189-01
C05

7345/0234-523449 2023-1.23関西空港駅F12発行

指定券 (グリーン)

RESERVED SEAT TICKET (GREEN CAR)

関西空港 → 新大阪

KANSAI AIRPORT

SHIN-OSAKA

JAN 23 (12:44発) (13:35着) C61
HARUKA 24 CAR. 1 SEAT. 8-C

¥***

2023-1.23関西空港駅F12(4-) 10190-01
7345/0234-523449

新幹線指定券 (グリーン)

RESERVED SEAT TICKET (GREEN CAR)

新大阪 → 名古屋

SHIN-OSAKA

NAGOYA

JAN 23 (13:48発) (14:42着) C14
HIKARI 510 CAR. 9 SEAT. 1-D

¥***

2023-1.23新大阪駅F77 (4-タ) 41061-01

新幹線指定券 (グリーン)

RESERVED SEAT TICKET (GREEN CAR)

名古屋 → 浜松

NAGOYA

HAMAMATSU

JAN 24 (16:43発) (17:13着) C64
HIKARI 514 CAR. 9 SEAT. 8-D

¥***

2023-1.24(中)金山駅NR2(3-) 10344-01
7345/0234-523449

新幹線指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
浜松 → 名古屋
HAMAMATSU → NAGOYA
JAN. 24 (18:31発) (19:01着) C34
HIKARI 521 CAR. 8 SEAT. 13-D

2023.-1.24阪神線MR003(3-) 10645-01
7345/0234-523449

1/27/23 指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
岡山 → 高知
OKAYAMA → KOCHI
JAN. 27 (13:05発) (15:39着) C04
NAMPU 11 CAR. 1 SEAT. 3-C

2023.-1.26(中)金山線MR1(3-タ) 40151-01
7345/0234-523449

新幹線指定券(グリーン)
NAGOYA SHIZUOKA
名古屋 → 静岡
1月25日 (9:43発) (10:37着) C40
ひかり 500号 全席禁煙 8号車11番A席

2023.-1.25名古屋線南乗2(3-) 40207-01

指定券(グリーン)
高知 → 岡山
1月29日 (11:13発) (13:40着) C36
南風 12号 1号車 2番C席

2023.-1.29高知線M52(5-タ) 30115-01

新幹線指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
静岡 → 名古屋
SHIZUOKA → NAGOYA
JAN. 25 (15:21発) (16:37着) C20
KODAMA 731 CAR. 9 SEAT. 11-D

2023.-1.25静岡線MR004(3-) 20415-01
7345/0234-523449

新幹線指定券(グリーン)
岡山 → 新大阪
1月29日 (14:53発) (15:38着) C61
さくら 554号 全席禁煙 6号車14番D席

2023.-1.27(中)金山線MR2(3-タ) 60125-01

1/27/23 新幹線指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
名古屋 → 岡山
NAGOYA → OKAYAMA
JAN. 27 (10:03発) (12:16着) C56
HIKARI 503 CAR. 8 SEAT. 10-D

2023.-1.26(中)金山線MR1(3-タ) 30150-01
7345/0234-523449

指定券(グリーン)
新大阪 → 関西空港
1月29日 (16:00発) (16:50着) C50
はるか 39号 1号車 7番C席

2023.-1.27(中)金山線MR2(3-タ) 10127-01

START 1/29/23 SUNDAY KOUCHI

12=13

14=41

14=53

15=38

16=00
↓
GOAL
16=50

OKAYAMA

Shin Osaka

AirPort

aparts 9:51 → arrives 15:39
no: 5hr43min 2 transfer(s)
1 経路
| 1/27 9:51発→15:39着
| 所要時間 5時間43分 乗換回数 2回

1 27
:51 Kanayama
KANAYAMA 9:47 Na2

▼
▼ Tokaido Line
▼ [Travel Time 5min]
▼
:56 NAGOYA
:01 [Time Between Trains 3min]
▼
▼ Hikari 500(No Smoking Only)
▼ [Travel Time 133min]
▼
12:16 OKAYAMA
13:05 [Time Between Trains 49min]
▼
▼ Nambu 11
▼ [Travel Time 154min]
▼
:39 KOCHI

-----END-----

2023/01/26 10:06 JRE



*社：東京都目黒区青葉台2-19-10

1/25/23 DDD QUOTE 様

栄本店 TEL0570-060-211
営業時間 24時間営業
2023年01月25日(水)17:58 レジ0004
貴No*****460濱田
2400039633930JAN
レジ袋45号
4582593595089JAN
噂のバイブ ローズ ¥5,780
小計 ¥5,784
(外税10%イヨク ¥5,784)
外税10 ¥578
(税合計 ¥578)
合計 ¥6,362
クレジット ¥6,362
(消費税等 ¥578)
お買上点数 2点

クレジット売上票
お客様控え

会社 02234

nari

1/23 領収書

キルマートキヨスク新大阪乗換口
TEL: 06-6302-5704

2023年 1月23日(月) 13:28 No:0002

おむすび小箱	※	¥430
綾唐 300ml	※	¥124
内税8%対象額	8.00%	¥554
内税8%	8.00%	¥41
合計		¥554
クレジット		¥554
(消費税等)		¥41

クレジット売上票
お客様控え
この控えは大切に保存して下さい。

ご利用日DATE 2023/01/23 13:28:41
会社 a99664-014 IC/CR
Company UF Jカード V
番号 4388-57XX-XXXX-
No

1/24/23 DINNER
クレジット売上票

加盟店名 北のツバサ(新大阪)
MERCHANT 052-265-7879
端末番号 49664-560-38847
ご利用日 2023/01/24 21:11:53
会員番号 438857*****4036 IC

ACCT #	CARD COMPANY	ビザ/マスタ
承認番号	APP CODE	0045910
処理通貨	TRAN NO	0921579
取引内容	伝票番号	有効期限
売上	06976	XX/XX
支払区分	取扱区分	商品区分
一括	110	990
金額		¥1,595

AMOUNT CARDHOLDER/VISA
ご利用ありがとうございます
またのご来店をお待ちしております
ARC 00 ATC 00038 No.03
AID A0000000031010
VISA
APP LABEL VISA CREDIT
売場 SALES 係員 CLERK
GMO-FG お客様控え

[NFCPayment売上票] G

加盟店名 北のツバサ
052-681-0041 1/23/23
端末番号 49664-560-38847
ご利用日 23/01/23 19:41:55
伝票番号 00797
会員番号 XXXXXXXXXXXX4036(RF)
承認番号 046804

取引内容	支払区分	取扱区分
売上	一括	110
カード会社	有効期限	
MFGA-ト	XX/XX	
金額		¥7,300
△お支払額		¥900
□お引当額		¥240

CARDHOLDER/VISA
ご利用ありがとうございます
またのご来店お待ちしております
A0000000031010
S525060 C03 A00037 EMV
VISA payWave
売場: 係員: 1,560

00 1,120
F396FA6C653A85FB 5ushi ¥580
INFOX

お客様控え DINNER 100
663)
663)

Kii

領収書

ギフトキヨスク静岡幹線
TEL: 054-654-7064

2023年 1月25日(水) 15:05 No:0002

まるごとリング	※	¥270
ジョージア ラテ	※	¥160
レジ袋		¥3
内税8%対象額	8.00%	¥430
内税8%	8.00%	¥31
内税10%対象額	10.00%	¥3
内税10%	10.00%	¥0
合計		¥433
クレジット		¥433
(消費税等)		¥31

クレジット売上票
お客様控え
この控えは大切に保存して下さい。

ご利用日DATE 2023/01/25 15:06:14
カード会社 64-014 IC/CR
CARD Con -ト V/M
会員番号 X-XXXX-4036
ACCT No

DINNER

[クレジット売上票] G

加盟店名 北のツバサ
052-681-0041 P/25 5ushi
2023
端末番号 49664-560-38847
ご利用日 23/01/25 20:51:32
伝票番号 07161
会員番号 XXXXXXXXXXXX4036(IC)
承認番号 039764

取引内容	支払区分	取扱区分
売上	一括	110
カード会社	有効期限	
MFGA-ト	XX/XX	
金額		¥2,740
△お支払額		¥2,740

BALAZS GEORGE
ご利用ありがとうございます
またのご来店お待ちしております
A0000000031010
S499184 C03 A00041 VISA
売場: 係員:

00
d1d3a89474db366c
INFOX

お客様控え

172

1/25/23

クレジット利用明細(お客様控)

STARBUCKS®

JR名古屋駅 新幹線南ラテ内店
#2048 TEL. 052-533-9821

1/25/23	319	額
本体合計(1点)	319	
(8%対象)	319	消費税 (25)
総合計	344	
三井住友(V/H)	344	
お釣り	0	



マクドナルド金山店
名古屋市中区金山4-6-25
052-321-2157
営業時間 24時間営業

21 45740 02 2023年1月26日 (木)19:30

(ビッグマック)	750	(1)	¥750
ビッグマック		17	
ビッグマック		17	
ビッグマック		17	

1/26/23

小計	370	¥750
(内消費税)		468
10%対象		¥750
(内消費税)		¥68
合計		¥750
クレジット支払		¥750
お釣り		0

クレジット
VISA/MasterCard
伝票番号
会員番号

1/27/23

(クレジット売上票) G

加盟店名 MERCHANT
JISA
086-801-0043
端末番号 TERM No 49564-560-51081
ご利用日 DATE 23/01/27 12:27:22
伝票番号 SLIP No 18912
会員番号 XXXXXXXXXX4036(1C)
ACCT No
承認番号 APP CODE 016974

取引内容	支払区分	取扱区分
売上	一括	110
カード会社	有効期限	
CARD Co	EXP DATE	
MFG/ト	XX/XX	

金額 AMOUNT ¥1,331
△引金額
合計金額 ¥1,331

BALAZS/GEORGE
ご利用ありがとうございました
またのご来店お待ちしております
A000000031010
S475728 C03 A00044 VISA
売場: 係員:
SALES CLERK
COUNTER お客様控え CUSTOMERS
INFOX COPY

Kochi



Comfort™
HOTEL
RECEIPT

MR./MS. George Balazs

AMOUNT DUE ¥18,360

Paid by credit card.

Comfort Hotel Kochi
TEL 088-884-2811

Trvl#:0210070012702377 2023/01/27 16:08

Total ¥18,360

DINNER
1/28/23

【クレジット売上票】G
加盟店名 MERCHANT
JISA
088-823-0084
端末番号 TERM No 59875-560-37743
ご利用日 DATE 23/01/28 20:14:23
伝票番号 SLIP No 01357
会員番号 XXXXXXXXXX4036(1C)
ACCT No
承認番号 APP CODE 027094

取引内容	支払区分	取扱区分
売上	一括	110
カード会社	有効期限	
CARD Co	EXP DATE	
タグ/カード	XX/XX	

金額 AMOUNT ¥23,210
△引金額
合計金額 ¥23,210

BALAZS GEORGE
ご利用ありがとうございました
またのご来店お待ちしております
A000000031010
S531602 C03 A00046 VISA
売場: 係員:
SALES COUNTER CLERK
INFOX お客様控え CUSTOMERS COPY

Genomics

STRETCH loggerhead project

Genomics of Pacific loggerheads (1st November 2022)
Peter Dutton (NOAA-SWFSC, Peter.Dutton@noaa.gov)

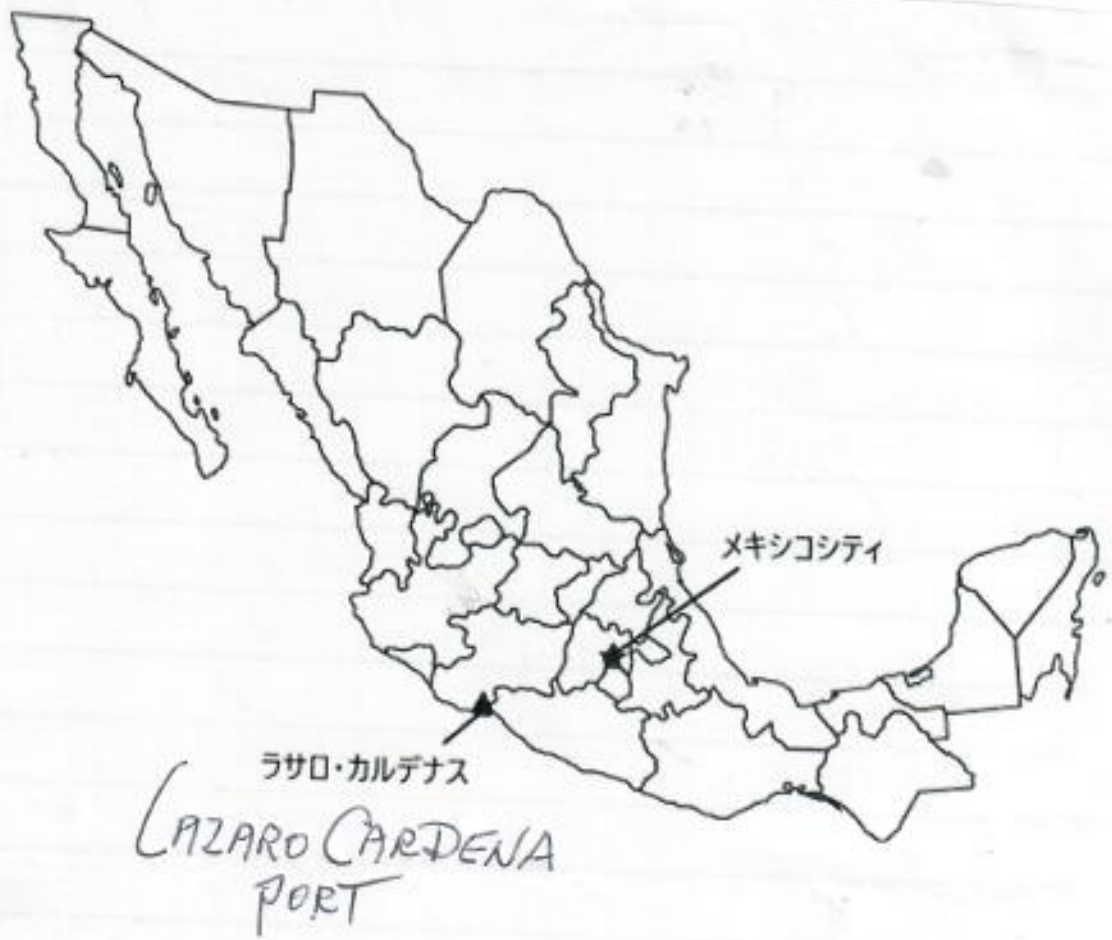
Summary

The STRETCH project offers a unique and unprecedented opportunity to incorporate genetics and genomics aspects that (1) enhance qualitative dimension of the experiment by characterizing the genomic profiles of the juveniles that are released as part of the project in order to help interpret some of the behavioral observations, and (2) allow hypothesis testing by selecting juveniles with certain genomic characteristics and documenting expected vs. observed behaviors. This has never been possible for any species, not only because controlled release of juveniles in pelagic habitats under the STRETCH experimental framework has never been done, but also because the genomic tools and resources have until now, not been available.

High quality, annotated whole reference genomes have been completed for green and leatherback turtles, and work is underway for all the other species. A working reference genome is expected to be available for loggerheads in early 2023 for use by the PI's on the genome project (Peter Dutton). This will provide the capacity to discover the genetic basis for behavior, physiology and other adaptive traits and develop assays that characterize the variation within species, populations and individuals. It will also allow epigenomic and transcriptomic studies to proceed that could provide insights into how the environment influences gene expression, and which genes are associated with migration and the related environmental/oceanographic factors relevant to the STRETCH experiment.

For this initial stage of STRETCH, sampling would be performed opportunistically. Methods involve retaining a portion (1 - 5ml) of whole blood that is collected from the juvenile loggerheads during routine monitoring by veterinarians and preserving for different types of analysis (with current routine genetic markers, and future genomic markers as they are developed). The laboratory analysis could be performed in Japan, and subsequent data analysis done by a collaborating group of Japanese and international experts. Samples would be frozen and/or preserved in specialized buffer (e.g. for transcriptomics).

- 1) CURRENT: Basic mtDNA sequencing and nDNA genotyping to characterize the populational genetic signatures of the juveniles released and confirm family relatedness (e.g. are they full siblings, half-siblings, or unrelated?).
- 2) FUTURE: Conduct Whole Genome Sequencing and targeted sequencing of a suite of genomic markers of interest to (a) characterize the variation of the experimental population and (b) select individuals with certain genomic makeup to release as part of a later stage of the STRETCH experiment



- カメ放流に同行する齊藤先生と PNPA の乗船者の米国その他ビザについて
- 齊藤先生と PNPA 乗船者の旅行健康保険について
- 齊藤先生と PNPA 乗船者の乗船までの交通費、宿泊費（船上）、米国東海岸での宿泊費（ホテル）、食費雑費、日本までの航空運賃（自宅までの交通費）について
- 齊藤先生および PNPA 乗船者が利用する船上でのインターネットアクセス、イリジウム衛星携帯電話について

Nov 13

HA 449

HNL → KIX
Flight HA 449
Honolulu, Oahu
to Osaka Kansai, Japan
(KIX)
Depart
11/13/2022 01:50 PM
Arrive
11/14/2022 06:45 PM

Guest
GEORGE
BALAZS

Details
Seat 16J
Extra Comfort

Nov 20

HA 450

KIX → HNL
Flight HA 450
Osaka Kansai, Japan (KIX)
to Honolulu, Oahu
Depart
11/20/2022 08:45 PM
Arrive
11/20/2022 09:15 AM

Guest
GEORGE
BALAZS

Details
Seat 17A
Extra Comfort

11-20 9:15 AM

Payment Summary

Flight #	Route	Fare type	USD
HA 449	HNL → KIX	Extra Comfort	\$458.60
HA 450	KIX → HNL	Extra Comfort	\$483.60
Taxes and Fees:			\$563.17
HA YQ surcharge			\$468.00
Passenger Security Service Charge			\$2.20
Japan International Passenger Facility Charge			\$19.40
Japan International Tourist Tax			\$7.00

Faint handwritten notes and bleed-through from the reverse side of the page.

George H. BALAZS 13-20 November 2022
 NAGOYA JAPAN TRAVEL - MOVEMENTS,
 ACTIVITIES, AND EXPENSES CLAIMED
 FOR STRETCH COORDINATING
 MEETING - PROFESSOR LARRY CROWDER
 P.I., INCLUDING SATELLITE TRANSMITTER
 ATTACHMENT TRIAL

<u>DATE</u>	<u>LOCATION/MOVEMENT</u>	<u>ACTIVITY</u>	<u>EXPENSE</u>
-------------	--------------------------	-----------------	----------------

11/13/22 130 PM	Depart Honolulu HA 449	Flight TO JAPAN	\$1,281. ¹⁷ USD
--------------------	---------------------------	-----------------	-------------------------------

11/14 645 PM	ARRIVE KANSAI (KIX) OSAKA, JAPAN		
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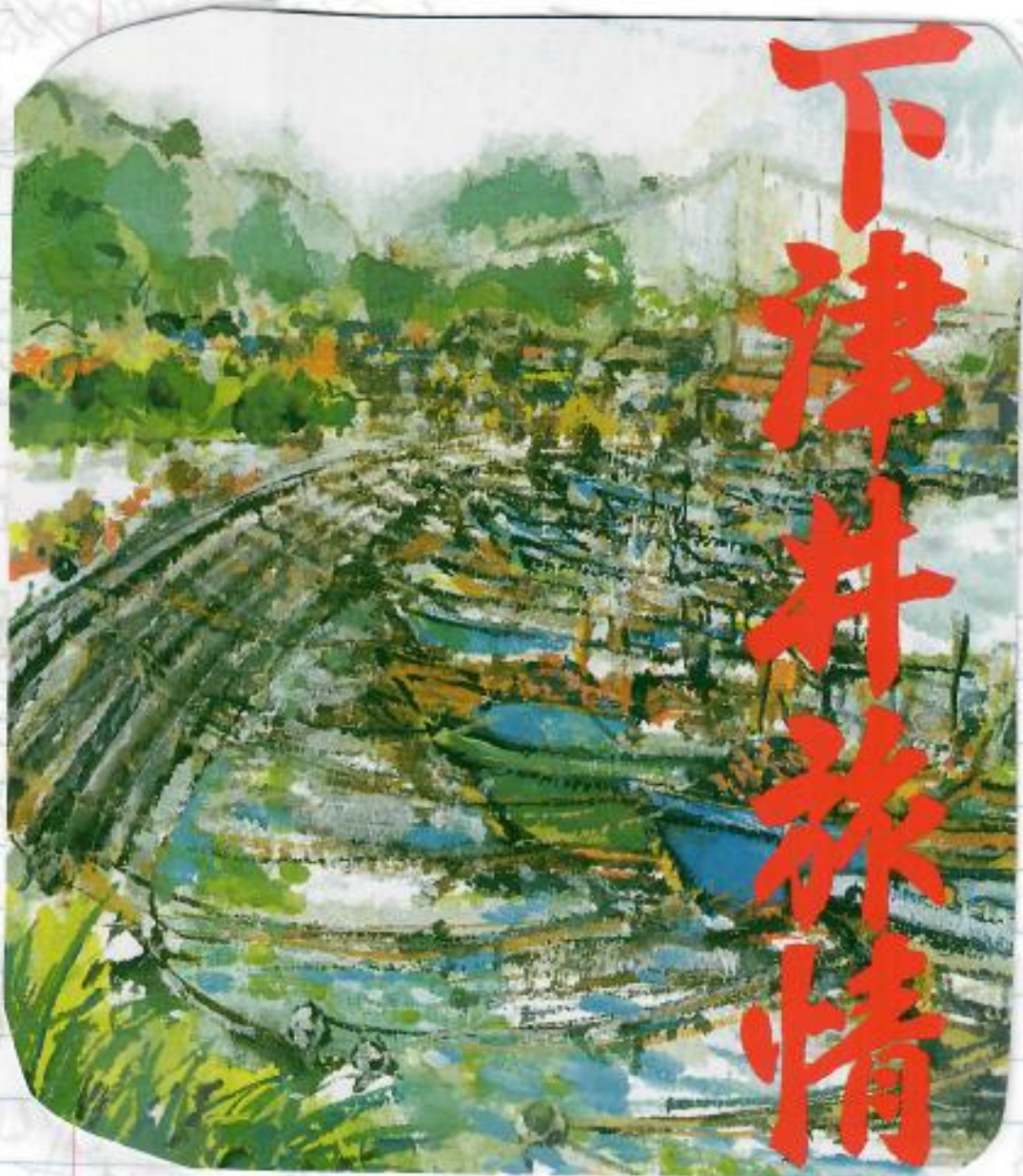
11/14-15	HOTEL NIKKO OSAKA AIRPORT	OVERNIGHT	¥11,520.
----------	------------------------------	-----------	----------

11/15	OSAKA AIRPORT TRAIN TO SHIN-OSAKA STATION	TRAINS TO NAGOYA	
-------	--	------------------------	--

11/15	SHIN-OSAKA TRAIN TO SHIN-NAGOYA		¥2,710. ¥6,410.
-------	------------------------------------	--	--------------------

PAGE 2 of 3 G.H. BALAZS TRAVEL CLAIM NAGOYA (182)

<u>DATE</u>	<u>LOCATION/MOVEMENT</u>	<u>ACTIVITY</u>	<u>EXPENSE</u>
11/15	CHECK IN ANA CROWNE PLAZA HOTEL, KAWAYAMA NAGOYA.	5-NIGHTS LODGING	
11/20	CHECK OUT		¥102,000.
11/15	PM NAGOYA	MET W/ LARRY CROWDER	
11/16	ANA HOTEL <> PORT OF NAGOYA PUBLIC AQUARIUM (PNPA)	MET WITH PROJECT COLLEAGUES	
11/17	ANA HOTEL <> PNPA	99	
11/17	TAXI FROM PNPA TO ANA HOTEL	PROJECT MEETINGS	¥3,210.
11/18	ANA HOTEL <> PNPA	99	
		PROJECT MEETINGS AND TRIAL ATTACHMENT OF MOCK SATELLITE TAG TO JUVENILE LOGGERHEAD TURTLE.	
11/19	ANA HOTEL <> PNPA	MET WITH PROJECT COLLEAGUES AND RE-EXAMINED LOGGERHEAD TURTLES	



下津村秋情

PAGE
3 OF
3

G. H. BALAZS TRAVEL CLAIM NAGOYA (184)

<u>DATE</u>	<u>LOCATION/MOVEMENT</u>	<u>ACTIVITY</u>	<u>EXPENSE</u>
11/20/22	ANA HOTEL TO SHIN-OSAKA	TRAIN	¥6,610.
11/20	SHIN-OSAKA TO OSAKA AIRPORT	TRAIN (RESERVED SEAT NOT AVAILABLE)	¥2,310.
11/20	DEPART OSAKA FOR HONOLULU	HA450	
11/20	ARRIVE HONOLULU 930 AM		

TOTAL TRAVEL CLAIM
FOR REIMBURSEMENT
USD \$1281.17

+ JAPANESE ¥134,770

NOTE - PER DIEM
DECLINED

REMIT TO: GEORGE BALAZS
992 AWAAWAANDA PLACE
APT A

HONOLULU, HI 96825
808-683-8402

ITSAHONLWORLDLNHAWAII@HOTMAIL.COM

Date of Transaction Merchant Name or Transaction Description \$ Amount

PAYMENTS AND OTHER CREDITS *JAN 2003*

02/13 Payment ThankYou Image Check -836.00

PURCHASE

01/22 HT NIKKOKANSAI AIRP OSAKA 103.22
 01/24 YEN 13,320 X 0.007749249 (EXCHG RATE)

01/23 TOKAIKIYOSUKU BERUMA-TO OSAKA 4.32
 01/25 YEN 554 X 0.007797833 (EXCHG RATE)

01/24 HANBIJE NAGOYA 12.36
 01/26 YEN 1,595 X 0.007749216 (EXCHG RATE)

01/23 MCDONALD'S TOKYO 7.27
 01/26 YEN 940 X 0.007734042 (EXCHG RATE)

01/23 SUSHIHONKE KANAYAMAMISE NAGOYA 56.88
 01/26 YEN 7,300 X 0.007791760 (EXCHG RATE)

01/25 DONQUIJOTE NAGOYASAKAEHON 062-957-6311 49.04
 01/27 YEN 6,362 X 0.007708267 (EXCHG RATE)

01/25 TOKAIKIYOSUKU GIFUTOKIY SHIZUOKA 3.34
 01/27 YEN 433 X 0.007713625 (EXCHG RATE)

01/25 SUSHIHONKE KANAYAMAMISE NAGOYA 21.12
 01/28 YEN 2,740 X 0.007708029 (EXCHG RATE)

01/27 ANA CROWNE PLAZA HOTEL NAGOYA 552.87
 01/29 YEN 71,586 X 0.007723158 (EXCHG RATE)

01/27 OKAYAMA EKIBEN OKAYAMA 10.32
 01/30 YEN 1,331 X 0.007753568 (EXCHG RATE)

01/28 HAKOBE KOCHI *DINNER X 9* → 179.26
 01/30 YEN 23,210 X 0.007723395 (EXCHG RATE)

01/27 COMFORT HOTEL KOCHI YOKKAICHI 141.80
 01/30 YEN *2 nights*
 18,360 X 0.007723311 (EXCHG RATE)

01/26 MCDONALD'S TOKYO 5.79
 01/30 YEN 750 X 0.007720000 (EXCHG RATE)

02/12 UNITED 0162465202708 800-932-2732 TX 55.35
 041923 1 Y HNL ICN

2 Y ICN TPE
 3 YO TPE ICN
 4 YO ICN HNL

Fees FF Miles

1202.94
check #360
3/2/23

55.35

186

10/27 Payment Thank You Bill Pay Service

-21.20

PURCHASE

10/21	HYATT CENTRIC PIKE LNG B LONG BEACH CA	1,207.46
11/14	HTL NIKKOKANSAI AIRP OSAKA 11/16 YEN 11,520 X 0.007263888 (EXCHG RATE)	83.68
11/15	EKMARCHESHIN-OSAKA OSAKA 11/17 YEN 900 X 0.007200000 (EXCHG RATE)	6.48
11/15	ANA CROWNE PLAZA HOTEL NAGOYA 11/17 YEN 102,000 X 0.007208725 (EXCHG RATE)	735.29
11/15	WEST JAPAN RAILWAY CO. OSAKA 11/18 YEN 6,410 X 0.007201248 (EXCHG RATE)	46.16
11/15	WEST JAPAN RAILWAY CO. OSAKA 11/18 YEN 2,710 X 0.007202952 (EXCHG RATE)	19.52
11/15	MCDONALD'S TOKYO 11/18 YEN 1,260 X 0.007198412 (EXCHG RATE)	9.07
11/15	MCDONALD'S TOKYO 11/18 YEN 640 X 0.007203125 (EXCHG RATE)	4.61
11/16	MCDONALD'S TOKYO 11/19 YEN 570 X 0.007157894 (EXCHG RATE)	4.08
11/17	MEITETSUKOTSU 2 NAGOYA 11/19 YEN TAXI 3,210 X 0.007161993 (EXCHG RATE)	22.99
11/16	SUSHIHONKE KANAYAMAMISE NAGOYA 11/19 YEN 2,200 X 0.007263636 (EXCHG RATE)	15.98
11/18	SEVEN-ELEVEN TOKYO 11/21 YEN 1,181 X 0.007163420 (EXCHG RATE)	8.46
11/18	MCDONALD'S TOKYO 11/21 YEN 470 X 0.007170212 (EXCHG RATE)	3.37
11/18	FAMILYMART TOKYO 11/21 YEN 658 X 0.007158064 (EXCHG RATE)	4.71
11/19	RESTAURANT ARRIBADA NAGOYA 11/21 YEN 1,680 X 0.007160714 (EXCHG RATE)	12.03
11/17	MCDONALD'S TOKYO 11/21 YEN 880 X 0.007159090 (EXCHG RATE)	6.30
11/20	KIX TENANTS OSAKA 11/22 YEN 1,969 X 0.007135601 (EXCHG RATE)	14.05
11/20	DENNYS CHIYODAKU 11/22 YEN 2,840 X 0.007161971 (EXCHG RATE)	20.34

VISA Explorer
JA Explorer
2022

FEATURES

66-156/531

Date: 02/13/2023
Check #: 2350265

Reimburse Amount
\$*****86.82

VOID AFTER 180 DAYS

[Signature]
Authorized Signer

FEATURES

66-156/531

Date: 02/15/2023
Check #: 2350641

Reimburse Amount
\$****2,245.84

VOID AFTER 180 DAYS

[Signature]
Authorized Signer

ig.com

KOCHI CITY

Booking Confirmation

CONFIRMATION NUMBER: 3887.063.348

PIN CODE: 6761

Comfort Hotel Kochi (コンフォートホテル高知)

Address: Kita-Hommachi 2-2-12, Kochi, 780-0056, Japan
北本町2-2-12, 高知市

Phone: +81 88 884 2811

GPS Coordinates: N 033° 33.960, E 133° 32.760

CHECK-IN

27

JANUARY

Friday

☉ from 15:00

CHECK OUT

29

JANUARY

Sunday

☉ until 10:00

ROOMS

1

NIGHTS

2

TOMOMI SAITO'S CITY

\$128
\$12

approx. \$140

¥18,360

Hawaiian Airlines® Bank of Hawaii Mastercard® Statement

GEORGE BALAZS

| Account Ending 8440 | p1/21/23

Page 3 of 5

Transactions

Transaction Date	Posting Date	Description		Amount
Payments				
Jan 07	Jan 08	ARC Payment Received Thank You	N/A	-\$1,179.42
Total payments for this period			N/A	-\$1,179.42
Purchase Activity for GEORGE BALAZS card ending 8440				
Dec 24	Dec 26	HAWAIIAN 17315061827932 WEB SALES HI BALAZS/GEORGE 12/24/2022 HNL HNL Agency: HAWAIIAN AIRLIN #17315061827932	39	\$12.99
Dec 29	Dec 29	HAWAIIAN 17321921478282 WEB SALES HI BALAZS/GEORGE 02/17/2023 HNL ITO HNL Agency: HAWAIIAN AIRLIN #17321921478282	362	\$120.60
Dec 29	Jan 02	HAWAIIAN 17321921620743 WEB SALES HI BALAZS/GEORGE 02/20/2023 HNL ITO HNL Agency: HAWAIIAN AIRLIN #17321921620743	392	\$130.59
Dec 30	Jan 02	HAWAIIAN 17321921829726 WEB SALES HI BALAZS/GEORGE 01/21/2023 HNL KIX HNL Agency: HAWAIIAN AIRLIN #17321921829726	780	\$3,259.85
Jan 14	Jan 15	HAWAIIAN 17321925085146 WEB SALES HI BALAZS/GEORGE 02/28/2023 HNL LIH HNL Agency: HAWAIIAN AIRLIN #17321925085146	213	\$71.21
Total purchase activity for this period			786	\$3,595.24

PAID check #366 1/29/2023

PAYMENTS AND OTHER CREDITS

12/03 Payment ThankYou Image Check 11/22 -2,224.58

PURCHASE

11/20 WEST JAPAN RAILWAY CO. OSAKA 18.87
 11/23 YEN
 2,380 X 0.007088235 (EXCHG RATE)

11/20 JR CENTRAL MINATOKU 47.84
 11/23 YEN
 6,680 X 0.007161676 (EXCHG RATE)

12/06 GOOGLE *Google Storage 856-898-3987 CA 31.41
 12/19 CARINGBRIDGE 651-452-7940 MN 50.00

Transaction Date	Posting Date	Description	Miles	Amount
Payments				
Nov 30	Nov 30 <i>2022</i>	PAYMENT RECV'D CHECKFREE	N/A	-\$161.22
Total payments for this period			N/A	-\$161.22
Purchase Activity for GEORGE BALAZS card ending 8440				
Nov 21 <i>1/22</i>	Nov 22	HAWAIIAN 17321914693252 WEB SALES HI BALAZS/GEORGE 12/09/2022 HNL ITO HNL Agency: HAWAIIAN AIRLIN #17321914693252	722	\$240.61
Nov 30	Nov 30	HAWAIIAN 17321916360125 WEB SALES HI BALAZS/GEORGE 12/05/2022 HNL ITO HNL Agency: HAWAIIAN AIRLIN #17321916360125	212	\$70.61
Dec 10	Dec 11	HAWAIIAN 17321918270425 WEB SALES HI BALAZS/GEORGE 02/07/2023 HNL KOA HNL Agency: HAWAIIAN AIRLIN #17321918270425	332	\$110.60
Dec 10	Dec 11	HAWAIIAN 17321918266214 WEB SALES HI BALAZS/GEORGE 01/07/2023 HNL ITO HNL Agency: HAWAIIAN AIRLIN #17321918266214	332	\$110.60
Dec 16 <i>1/22</i>	Dec 18	HAWAIIAN 17321919256062 WEB SALES HI BALAZS/GEORGE 01/09/2023 HNL LGB HNL Agency: HAWAIIAN AIRLIN #17321919256062	1,941	\$647.00
Total purchase activity for this period			3,539	\$1,179.42



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STRETCH

STRETCH
 SEA TURTLE RESEARCH EXPERIMENT/
 THERMAL CORRIDOR HYPOTHESIS

VISITED
1/25/2023



25 0C
 駿府城公園 共通券
 大人 360円

- 本券は、発効日のみ有効です。
- 各施設受付で本券を提示ください。
- 本券1枚で大人1人入場できます。
- 払い戻しはできません。
- 本券をもって領収書といたします。

1. 東御門・巽櫓
 1/25/23

2. 紅葉山庭園
 Sunpu Castle

3. 坤櫓

共通券 駿府公園 東御門

JAPAN RAIL PASS

Can also be Used for Shinkansen "bullet train" Travel



Hokuriku Shinkansen "KAGAYAKI" etc.
Hokuriku Shinkansen (450.5 km)
 Train Names: KAGAYAKI, HAKUTAKA, TSURUGI, ASAMA



Jōetsu Shinkansen "TOKI" etc.
Jōetsu Shinkansen (333.9 km)
 Train Names: TOKI, TANIGAWA
 Max-TOKI, Max-TANIGAWA



Sanyō & Kyūshū Shinkansen "SAKURA"
Sanyō Shinkansen (622.3 km)
 Train Names: NOZOMI*, MIZUHO*,
 HIKARI (incl. HIKARI Fast Star),
 SAKURA, KODAMA
 (Tokyo thru Hokkaido, 1,174.6km)



Tōkaidō & Sanyō Shinkansen "HIKARI"
Tōkaidō Shinkansen (552.6 km)
 Train Names: NOZOMI*, HIKARI, KODAMA

Makoto Kohzu Hiroshima Okayama Shin-Osaka Kyoto Nagoya

* There are six types of train services, "NOZOMI," "MIZUHO," "HIKARI," "SAKURA," "KODAMA" and "TSUBAME" trains on the Tōkaidō, Sanyō and Kyūshū Shinkansen, and the stations at which trains stop vary with train types. The JAPAN RAIL PASS is only valid for "HIKARI," "SAKURA," "KODAMA" and "TSUBAME" trains, and not valid for any seats, reserved or non-reserved, on "NOZOMI" and "MIZUHO" trains. To travel on the Tōkaidō, Sanyō and Kyūshū Shinkansen, the pass holders must take "HIKARI," "SAKURA," "KODAMA" or "TSUBAME" trains, or pay the basic fare and the Shinkansen express charge to take "NOZOMI" and "MIZUHO" trains (see p.7 and p.8 for details).



Kyūshū Shinkansen "Series 800"
Kyūshū Shinkansen (288.0 km)
 Train Names: MIZUHO*, SAKURA, TSUBAME

Kanazawa

Kaposhima-Chūō

Order: 78 Abstract ID: 1469 Type: Poster Subject: Behavior and Movements

ISTS-26

2006 Greece

THE DIVING BEHAVIOUR OF HIBERNATING LOGGERHEAD TURTLES IN TEMPERATE MEDITERRANEAN WATERS

Sandra Hochscheid¹, Flegra Bentivegna¹, Paolo Luschi², Carola Vallini³, and Graeme C. Hays⁴

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² Department of Ethology, Ecology, Evolution, University of Pisa, Via A. Volta 6, 56126 Pisa, Italy

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⁴ School of Biological Sciences, Institute of Environmental Sustainability, University of Wales Swansea, Singleton Park, Swansea SA2 8PP, UK

Loggerhead and green sea turtles have been reported to hibernate on the bottom of the sea when water temperatures decrease below 15°C. However, because of the long apnoeic periods and the often unknown location of the hibernacula it is difficult to investigate the diving behaviour of hibernating sea turtles. We equipped five loggerhead turtles with satellite transmitters and released them from Italian shores (three in the Gulf of Naples, Tyrrhenian Sea, and two near Porto Garibaldi, Adriatic Sea) to monitor their behaviour throughout the winter. Both "Adriatic" turtles and one of the "Naples" turtles spent the winter in coastal waters off Peloponnese (Greece), while two turtles remained in the Gulf of Naples area. Minimum water temperatures were 14.4°C (Peloponnese) and 13.5°C (Naples). Dive data, also relayed via satellite, revealed a marked change in diving behaviour with the onset of the cold winter period. Dive durations increased with decreasing water temperatures and maximum recorded dive durations ranged between 3 and 7 hours. At no time during the winter did turtles cease to surface. However, surface times remained short (1-2 min), indicating that no excessive lactate was accumulated which would have required prolonged time for post-dive clearance. Our results are in contrast to earlier reports where turtles apparently spent months on the bottom of the sea floor without re-emerging. We conclude that resting turtles have sufficiently reduced metabolic costs at low temperatures, and that short surfacing episodes supply enough oxygen to last for several hours, without the necessity to become anaerobic.



11/2022



194



4/2023

✓ COVID CARDS, PASSPORT, INT. DRIVERS LICENSE

- NOTIFY CREDIT CARDS

✓ FOREIGN \$ USA \$

- EXTRA GLASSES

✓ VITAMINS ✓ METFORMIN ✓ ASPIRIN ✓ ADVIL ✓ TUMS ✓ ANTI ACID ✓ DROPPA ✓
✓ FLASHLITE ✓ ANTIBIOTICS ✓ EYE DROPS ✓ SALVE ✓ PINE YOUTUBE

- GIFTS - Books

- TEA / OATMEAL / BAGELS

- CONVERSION PLUGS

- COVID TESTS

- DAISY TOY

- WALNUT CRACKER

+ PASSWORDS *

✓ KN 95 MASKS

- WALNUT CRACKER

- CHOCOLATE

✓ EXTRA SHOES

✓ STRAP CARDS

✓ WALL Charger for Cell / WIRE ✓ USB Charger *
for PLANE

- HAIR CUT

✓ \$ MONEY \$

✓ TOOTH BRUSHES / charger * HAIR BRUSH

- EYE WARMER *

✓ NOTEBOOK *

✓ T-MOBILE VOICE MAIL

✓ BAGELS *

✓ BAND-AIDES

Good Will Visit

- PEPTO BISMOLO

USEFUL INFORMATION

CONVERSION TABLE

METERS	YARDS	INCHES
1.000	1.093	39.37
0.914	1.000	36.00

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

KILOMETERS	MILES
1.000	0.621
1.609	1.000

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

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

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

LENGTH

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

CAPACITY

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

WEIGHT

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

Table of Time Measure

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

Table of Dry Measure

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

Table of Liquid Measure

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

Table of Paper Measure

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

Table of Linear Measure

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

Miscellaneous Measures

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

Table of Cubic Measure

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

Table of Avoirdupois Weight

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

Table of Troy Weight

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

Table of Circular Measure

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

Table of Apothecaries' Weight

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

Table of Surface Measures

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

An acre measures 208.71 ft. on each side.
A section of land is 1 sq. mile.
A quarter section is 160 acres.
A township is 36 sq. miles.

MULTIPLICATION TABLE

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



The Marine Turtle Specialist International Workshop

海亀専門家国際会議イン名古屋'92

March 14th(Sat.)-16th(Mon.), 1992 / Venue: Nagoya Congress Center

Organizer: Japan Bekko Association

Secretariat: SIMEX INTERNATIONAL INC. Kansai Office

期間●1992年3月14日【土】-16日【月】会場●名古屋国際会議場

主催：日本鯨甲協会

事務局：(株)サイマル・インターナショナル関西支社

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THERMAL CORRIDOR HYPOTHESIS