JAPAN STRETCH 2023 BOOK II

ARGOS 6621

COMPOSITION

100 sheets/200 pages

39 PAGES

G.H. BALAZS

WIDE RULED

1-808-683-8402

7/10/23 STRETCH RELEASE

8/31/23 SAITO RELEASE

高知大学 Kochi University

STRETCH TRIP #3 GHB

Laura
June 16, 2023 Rice, Jim, GHB Seat 15C
Friday HA 449 TO KIX ARRIVE 6/17 840pm EXTRA Comfort
Report ~430pm (2 hrs LATE)
26 SPOT 387 TAGS + GEAR 2 Bags checked
+ RICE 1 = 27 TOTAL
JUNE 17 OVERNIGHT Rm 6050 NIKKO HOTEL
JUNE 18 Saw sign
SUNDAY "KANKU PET HOTEL"
Breakfast at McDONALDS KIX
Exchanged RAIL PASS. HARUKO TO
SHINOSAKA TO SHINKANSEN → NAGOYA (1 hour)
2pm Checked into ANA CROWNE PLAZA
Rm 2307
Programed tags #1-7 18 days DELAY TO FULL
UPLOADS - Student HARUNO Murakami
and Sister RICO (15) Murakami from Kamakura.
SUSHI BELT DINNER HARUNO (17)
JUNE 19 2023 MONDAY
UP 6AM 7AM Breakfast MACDONALDS
9AM SUBWAY TO PNPA - GB, LC, DB, MR, LJ,
RICO & Haruno
Attached 7 Turtles 1 - 7.
Finished Anti-Fooling PAINT - INDIVIDUAL
BASKET SUSPENDED ~230pm

BALAZS/GEORGE
6A8M32 2 PC
OSAKA KANSAI INTL
KIX HA449 16JUN 14:25

PRINT DATE GMT: 16JUN23
0 173 HA 201135

BALAZS/GEORGE
6A8M32 2 PC
PRINT DATE GMT: 16JUN23
HNL
0 173 HA 201134 **218**

OSAKA KANSAI INTL

KIX

HA449 16JUN 14:25

BALAZS/GEORGE
6A8M32 2 PC
OSAKA KANSAI INTL
KIX HA449 16JUN 14:25

PRINT DATE GMT: 16JUN23
0 173 HA 201134

RAIL PASS USED FOR HARUKA → SHIN OSAKA

新幹線指定券
RESERVED SEAT TICKET
無効
名古屋
新大阪 ➡ 名古屋
SHIN-OSAKA ➡ NAGOYA
JUN.18 (12:48発) (13:42着) C04
HIKARI 508 CAR.12 SEAT.18-A
¥***
2023-6-18(日)大阪駅ア75 (4-タ) 50978-01
7345/1694-209437

7 EY Reflecto Eye
(7/16") 48 pc
Fiberglass Hawaii, Inc.

6/20/23 TUES,

クレジットカード売上票
【 お客様控 】

【加盟店名】
トウカイコウツウ
【車輌番号】 000033
【電話番号】 0532-53-1181
【伝票番号】 01218
【端末番号】 99661580562250
【ご利用日】 2023/06/20 19:19:39

【カード会社】
MUFGカード
【IDコード】 105
【員番号】
XXXXXXXXXXXX4036
【カードシーケンス番号】 03
【有効期限】 XX/XX
【ATC】 00059
【取引内容】 売上
【支払区分】 一括払
【商品区分】 240
【承認番号】 0081704
【AID】 VISA CREDIT
A0000000031010
【金額 amount】 ¥7,230
【立替金】 ¥0
【ETC料金】 ¥0円
【合計 Card Purchases】
¥7,230円
クルビコ D

TOYOHASHI STATION TO GALAXY ACE

TAXI 6/20/23 TUES

領収書

2023年06月20日 005

メーター運賃 ¥7,230 円

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(税率10%)

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クレジット 決済 ¥7,230 円
車輌番号 000033
乗務員番号 001239

毎度ご乗車ありがとうございます。

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タクシーフロント ☎ 0532-57-1111
お忘れ物、お気付きの点は
上記までご連絡ください。

TO GALAXY ACE

photos of GALAXY ACE ↓

20 JUNE 2023
TUESDAY
9 TURTLES DONE
#8 - 16

新幹線指定券
RESERVED SEAT TICKET
名古屋 → 豊橋
NAGOYA → TOYOHASHI
JUN.20 (17:38発) (18:04着) C35
KODAMA 742 CAR. 7 SEAT. 14-E
¥***
538PM 604PM
無効
6.2276-297
2023.-6.20名山MR5 (3-) 50152-01
7345/1694-209437

13
新幹線指定券
RESERVED SEAT TICKET
豊橋 → 名古屋
TOYOHASHI → NAGOYA
JUN.20 (19:54発) (20:14着) C25
HIKARI 657 CAR. 12 SEAT. 8-E
¥***
754pm — 814pm
2023.-6.20豊橋駅MR22 (3-) 00595-01

21 JUNE 2023
Wednesday
#17 - 25
Attached 9 = 25 TOTAL
#17 = Mock Turtle

6/21 SAKE
23 WEDNESDAY

J-Mups

クレジットカード売上票
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加盟店名 MERCHANT ｼﾞｪｯﾃｨｰ JETTY
080-3060-9780

ご利用日 DATE 23/06/21 13:57:34

ｶｰﾄﾞ会社 CARD COMPANY MUFG CARD
ｶｰﾄﾞ番号 CARD NO IC 4389[illegible]0096
端末番号 TERMINAL 49693-800-[illegible]09

SAKE
Turtles
BLESSING

伝票番号 SLIP NO.	有効期限 EXP DATE	承認番号 APP CODE
52783	XX/XX	022714

取引区分 TRAN TYPE	支払区分 PMT TYPE	商品区分 COM CODE
売上	一括	0310

金額 AMOUNT ¥1,160

合計金額 TOTAL AMOUNT ¥1,160

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。

AID A0000000031010
C03 A0000000064 VISA CREDIT

売場 係員

ARC : 00 お客様控

22 JUNE 2023
Thursday

23 JUNE 2023 FRIDAY

T Hitomi "Fish Eye Girl"

Date	Time(local)	Whereabouts	
Jul. 22	unknown	Balboa, Panama	Arrival
		Panama	Hotel
Jul. 23	18:06	Tocumen International Airport	Departure
Jul. 23	23:40	San Francisco Airport	Arrival
		San Francisco City	Hotel
Jul. 24		taxi	
		Steinhart Aquarium	
		taxi	
		Aquarium of the Bay	
		taxi	
	22:35	San Francisco Airport	Departure
	23:19	Monterey Regional Airport	Arrival
		taxi	
		Monterey City	Hotel
Jul.25		taxi	
		Monterey Bay Aquarium	
		Hopkins Marine Station	
		taxi	
		Monterey City	Hotel
		taxi	
Jul.26	6:00	Monterey Regional Airport	Departure
	6:45	San Francisco Airport	Arrival
	12:00	San Francisco Airport	Departure
Jul. 27	14:45	Narita Airport	Arrival
		JR train	
		Shinagawa	
		bullet train	
	evening	Nagoya	Arrival

KOCHI

6-23-2023 Friday

(83)

Usa LAB - Tomomi's office
+5 students,

~~12~~ 24H - 125 UPLINKS

PTT ID 243204 caught pound net Muroto 8/22/23
77.0 cm SCL 74.1KG
Serial # 23U1029

243203 PTT caught pound net Muroto 8/30/23
Serial # 23U1028 78.8cm SCL 67.0kg

Both Released off Kochi Beach 8/31/23 1600H so 1-9 days in captivity

at 33° 25' 13.5" N
133° 30' 29.4" E

JR HOKKAIDO
TRAVELLOG
seen on PBS
NOTES 7/4/23
"HOKKAIDO STYLE"
ANTARDMA STATION

SAIRO TENT
Camp Story

6/23/23 Lunch DIAMONDHEAD BURGE

OVER

6-23-2023 Usa Kochi

87

Mikihiro Nakagawa
Sonoko Wakamatsu
Risako Fukuzuka
Momoka Kubo
Hinata Ikeda
Hitomi Yokoi → Fish eye girl

Usa Hotel
San-You-Sou
三陽荘
HOT SPRINGS
Sanyo-so.co.jp

George Balazs

To: Dana Briscoe; Larry B. Crowder; Bianca S Tue 7/25/2023 11:40 PM

Just for STRETCH Folks Please-
We've all noticed that, since release, Hau'oli #17 is an outlier to the other 24. That is, moving south but not much compared to the others going north for some distance. This turtle was judged entirely normal in health, activity, behavior and appetite by PNPA when loaded on the ship, during transit, and at release.

However, several days before loading, during attachment of the satellite tag, and after attaching the tag, the turtle displayed a catatonic state- flippers freezing up- eyes bulging- and... spinning top to bottom when put into its seawater holding container. In all my years I've never seen anything like this- a totally crazy behavior that transitioned overnight into... complete normalcy.

Hau'oli #17 was the turtle we put the mock tag on in November 2022. The turtle was held on display in a tank separate from all the others. Growth rate was comparable to the other turtles. The careful removal of the mock tag 6 months latter (our June visit) was fully safe and successful, as was the attachment of the non-mock tag.

So that's the back story. In retrospect, the turtle should probably have been held back- not released. In fact, we seriously considered that option. However, (and I stress) that would have been Impossible paperwork-wise under CITES, as it is strictly carried out in Japan. This was explained to us in no uncertain terms by Director Kurita. His Cites was for 25- the exact same 25 shown with tag numbers on the permit. 25. Not 24. So, when #17 was seen to be entirely total normal in appearance and behavior by Larry and I (and Kurita-san) the morning after the bizarre episode, there was great relief.

ghb

6-22 TO 6/24/23 KOCHI CITY 2 nights (Thurs. & Friday)

乗車記念 使用済

新幹線指定券
RESERVED SEAT TICKET
名古屋 → 岡山
NAGOYA → OKAYAMA
JUN.22 (13:03発) (15:02着) C36
HIKARI 509 CAR.12 SEAT. 8-A
¥***
2023.-6.22(木)全山駅MR1(3-タ) 40102-01

指定券
RESERVED SEAT TICKET
宇多津 → 岡山
UTAZU → OKAYAMA
JUN.24 (13:35発) (14:10着) C42
SHIOKAZE 16 CAR. 2 SEAT. 3-C
¥***
宇多津駅 6.24
2023.-6.18関西空港駅F5 (4-タ) 40067-01
7345/1694-209437

指定券
RESERVED SEAT TICKET
岡山 → 高知
OKAYAMA → KOCHI
JUN.22 (16:05発) (18:48着) C44
NAMPU 17 CAR. 2 SEAT. 8-C
¥***
2023.-6.22(木)全山駅MR1(3-タ) 40102-04

新幹線指定券
RESERVED SEAT TICKET
岡山 → 新大阪
OKAYAMA → SHIN-OSAKA
JUN.24 (14:36発) (15:46着) C62
HIKARI 514 CAR.12 SEAT. 2-D
¥***
2023.-6.18関西空港駅F5 (4-) 00070-01
7345/1694-209437

指定券
RESERVED SEAT TICKET
高知 → 宇多津
KOCHI → UTAZU
JUN.24 (9:13発) (11:04着) C42
NAMPU 8 CAR. 2 SEAT. 7-C
¥***
無効
2023.-6.18関西空港駅F5 (4-タ) 10064-01
5886/1694-209387

指定券
RESERVED SEAT TICKET
新大阪 → 関西空港
SHIN-OSAKA → KANSAI AIRPORT
JUN.24 (15:58発) (16:50着) C61
HARUKA 39 CAR. 4 SEAT. 1-C
¥***
2023.-6.18関西空港駅F5 (4-) 30073-01
7345/1694-209437

四国水族館
SHIKOKU AQUARIUM

2023. 06. 24
大人 ¥2,400
個人
当日限り有効 10:16
R03-371541

7/14/2023 Zoom
12-1PM
HST

J. Polovina

Bianca

D. Parker

J. Semuels

A. Strew

Dana Briscoe

G. Bazars

L. Crowder

CALI

MARC

(1) MORE TRANSLATION | F50 Monterey

- Press Release

ARGOS BACKUP

KAHALA ~~RETRIEVE~~

(2) MAPS | Deployments See all

- Rerun Denise

- LAT Long Jeff

- SST

i.e. Measure dist. Instruments

- 5 per Nsof

- Get in to Add

ARGOS DATA Storage Monthly

Link News to photo

Numbered

Show Twitter

Portal Account

- Vanilla Options No options

MAPS

New Maps Loc point

Close Previous Next

Re: Informal Wildlife Computers Map Discussion - Zoom link (Fri July 14, 12-1pm HST) - Meeting Recap

DB Dana K Briscoe <dbriscoe@stanford.edu

To: You; Jeffrey Polovina; Larry B. Crowder; Sat 7/15/2023 12:47 AM

Hi Everyone,

Thanks for a great meeting today to discuss the website and Wildlife Computers (WC) mapping features (& limitations).

Below is a recap for folks of some short-term updates that we'll work on (in no particular order):

- Adding a brief set of instructions below each WC map on the website, for user-friendly interactivity.

- Lat/Long can't be added into the current pop-up info when you click on a single track, but if you hover the mouse at just the right spot, this info can show up. Not ideal and I will continue to see if there is more we can do about this, but this is the current limitation.

- Adding the numeral in front of each turtle name on the map legend, ie: "ID: 1. Sakura". This way the user can put a 'name with a face', with each turtle photo.

- Copying the turtle photo carousel (currently towards the bottom of the Research > Overview page) to the Map page. So that a user can look at the track and individual's photo all in one location (short term fix for now; a separate web page dedicated to this, or highlighting a Turtle of the Week with it's name, name background, and some stats to be reviewed later)

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- Adding a sentence on the Home page to take users directly to the Research > Overview page to see photos

- Time zone - Can someone please remind me where we landed with this? Updating to tz based on current turtle wherabouts (eg Alaska Time)?

- Placing a copy of the logo as close to the WC map as possible; We're not able to embed the logo onto the WC map (unless we can convince WC to do this on their end) but this intentional placement might be the next best thing.

- Dana to explore making SST and track animations (short to medium timescale to completion, once things officially settle down with the website).

- Retaining a regular WC data download and backup. Dana to reach out to Rowan to discuss data storage and CD copies.

- Boosting project awareness with social media posts. I'll send a separate email with the Instagram, Facebook, and Twitter handles for the project for folks to follow and share.

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And a few longer term to-do's:

- Update the website with photos and videos from Mori-san & Noah-san. Larry, perhaps we can organize a way to transfer & share the go-pro videos, etc when they visit you in Monterey.

- Dana to schedule a Web Team subcommittee meeting in ~August to discuss website feedback, updates, google analytics results to refine website & content.

- Addition of Educational content, driven by Cali and her summer intern. To be included in our next Web Team meeting.

- Highlighting a 'Turtle of the Week' on the map page. Also doing the same on the social media, perhaps through a 'Turtle Tuesday' post every Tues. I might also schedule a separate social media subcommittee meeting to see who might be interested in helping

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Thanks all and please feel free to add to this list if I've overlooked anything we discussed. There are surely a lot of 'little things' on the website that can be updated, and we'll do our best to work through them all.

As a friendly reminder, I'll need to return to my regular Mon-Tues (Pacific Time), Weds-Fri Cawthron schedule starting next week. I'll do my best to follow up, especially if it's urgent.

And finally, a BIG thank you to each of you — We've had a week full of exciting project milestones, from the turtles being released to the website and public project launch. None of this could have been accomplished without you all!

Have a great weekend,
Dana

8-15-23 Web stretch
Tuesday 11AM — ZOOM
324469 Beverly SCHARNHORST

1800 ~1M>N each
Viewers (Not views)
Beverly 1:58 JAPAN
"Dense with scientific knowledge"
"OUTREACH" SECTION Great!
FOR FRONT of web page:
Expression of sympathy,
prayers, and support
for the tragic losses
and suffering by the people
of Lahaina and all Maui

105

8/22/23 TUESDAY

STRETCH co-PIs Meeting

August 22nd 2-3pm PDT / 11am-12pm HST / 9-10am NZST

Zoom link

Attending: Jeff Polovina, Jeff Seminoff, DANA GB

Budget per Kow

Attendees: George Balazs, Dana Briscoe, Larry Crowder, Jeff Polovina, Jeff Seminoff

***Draft* Agenda** Low website use — 1800 MOST in JAPAN

1. Greetings and brief updates – All
   — EVERY 2 weeks Apper 46.6°N one Turtle
2. Oceanography update – Dana/Jeff P
   5N Northern Limit Co Paper — Head South in Sept.
3. Discussion of analyses & planning for potential manuscripts, conferences – Larry/Dana, All
   T45N Why STRETCH? Conf vs Paper PLAYING IT SAFE
4. Website development and maintenance updates & Discussion of hiring dedicated role - Dana, All — ~~Send~~ ~~Need~~ "HIRE DEDICATED WEBSITE PERSON"
   Send Bal225 DISCUSSION GROUP Report
5. Good-Faith timely periodic sharing of all raw Argos data with Professor Saito and Director Kurita. And our Mexico Colleague – George, All
6. Any other project business – All

STRETCH co-PIs Meeting

TUES

August 22nd 2-3pm PDT / 11am-12pm HST / 9-10am NZST

Zoom link

Page 1 Dana's MINUTES

Attendees: George Balazs, Dana Briscoe, Jeff Polovina, Jeff Seminoff
Apologies: Larry Crowder

Please see Post Meeting Notes Below in Blue
Action items for Larry highlighted in turtle green

Agenda

1. Greetings and brief updates – All
    a. Beverly working with Ocean Connectors for project public relations (PR) & media campaign highlighting the project
        i. Stay tuned for details from her, to the full team shortly

    b. Continued PR for gaining website viewers/ average viewer time. Discussed map:
        i. How to make the WC map more interesting to viewers (since it doesn't change much from day to day)
        ii. What if we had more interesting static maps or an updated map every 2 weeks?
        iii. Dana to explore producing maps that show movement over time and/or underlying environmental conditions
        iv. Should we have an El Nino/MHW update with the map?

    c. Approach Waikiki Aquarium about involvement in our project?
    SLP & MOC

2. Oceanography update – Dana/Jeff P
    a. Continued warming in the central, eastern Pacific. 95% chance of El Nino (Latest CPC report)

    b. Cohort 1 turtles have exceeded historic movements north
        i. Historic: Tag #: 42717 (Max Lat: 43.4 N, 154W on 2 Sept 2011)
        ii. Current: Gabrieleno-Tongva (Max Lat: 46.6 N, -144.5W, as of 22 Aug 2023)

    - Paper idea to explore northern movements of current vs historic turtle data:

PAGE 2

i. Understanding migratory animal movements in response to this year (location of TZCF, El Nino, and marine heatwave)
ii. Dana to begin analyses & concise paper drafting in next few months

3. Discussion of analyses & planning for potential manuscripts, conferences – Larry/Dana, All
   a. Agreed it would be good to have a coordinated system for routinely sharing updates on papers & conferences; Larry to provide these updates to full team
      i. This includes:
         - STRETCH-related papers/talks
         - Non-project but related papers/talks (example: Dana's Baja turtles & red crabs paper using external data sets)

Jeff P.?

   b. Evolving process for Authorship; intended to be inclusive. We'll continue this discussion as papers & talks arise and refer to standard journal practices for Authorship contributions.

   c. STRETCH 'Synthesis' paper (aka testing the TCH paper):
      i. Discussed benefits of having at least 2 years' of data for such a paper, even if it's this year/El Nino vs a normal year (if that's what we get next year)
      ii. Can still present prelim results at conferences

   d. Upcoming Conferences:
      i. Would be good to know which conferences are coming up each year (also helps make decisions with limited travel funds)
      ii. Upcoming conferences to consider: ISTS (Thailand, Spring 2024?), ASLO Ocean Sciences (New Orleans, Feb 2024), and PICES (TBD, Oct 2024?)

4. Website development and maintenance updates & Discussion of hiring dedicated role – Dana, All
   a. All agreed Beverly would be a great fit to help with website: continued education & outreach and helping with current website requests list

   b. Next steps: Larry to coordinate contract with Stanford
      i. $35/hour for 8 hours/week for 6 months ~ $7,000 budget item

5. Good-Faith timely periodic sharing of all raw Argos data with Professor Saito and Director Kurita. And our Mexico Colleague – George, All
   a. Data transfer to Saito-san and Kurita-san about every 6 months
   b. Ideally in-person delivery via USB drive → MEXICO ALBERTO

6. Any other project business – All
   a. Brief discussion of budget shared by Larry. Why might the satellite tag budget be lower than the others, for Year 2?

Project L7PROFITS
1230PM - 9/18/23
1:30PM Monday
CO-PI STRETCH ZOOM
HAVOLI off 48hrs Ago
DEPTH DIVE TAGS
5 TAGS NEEDED 10-351 WC 149g
Need Larger turtles 86 x 55 x 25 mm
• Need Diving paper w/ Uchida Coauthor
Need Larry paying PNPA#
EMAIL Larry publi comments
Metric for success?
Necropsy of loggerhead 55
hits# web site?

109

RAFT 09/12/23 for PI approval

Project vs Profits What have you done for me today

STRETCH Guidelines for authorship for manuscripts and conference presentations

At the recent PI call, we agreed it would be good to have a coordinated system for routinely sharing updates on planning for papers & conferences. I was asked to draft a protocol for presentations and publications to provide these updates to full STRETCH team. First, we need to agree among the PIs on when to move forward with presentations and papers. A lot of information is going up on the website about turtle behavior under particular environmental conditions relative to the TCH. We need to be deliberate about messaging and the rollout of STRETCH products in a timely manner that also provides a consistent message linking various analyses together.

? use of LEGACY DATA SETS IN NEW papers.

Our STRETCH publication policy includes:

- All STRETCH-related papers/talks when MADE KNOWN? when revealed? video on ship
- Non-project but related papers/talks (example: Dana's Baja turtles & red crabs paper using external data sets)

We need to refine the process for designating authorship, erring on the side of being inclusive of all significant contributors. We'll continue this discussion as proposals for papers & talks arise and refer to standard journal practices for authorship contributions. The following guide to various roles that qualify for authorship is available:

https://www.science.org/content/page/science-journals-editorial-policies#authorship

The order of authorship for each proposed manuscript should be sketched out early, with a first author taking the lead on coordinating work on that particular manuscript from outline to analysis, to drafts and revisions, to submission for publication. Given that many of the STRETCH team are well-established senior scientists, my personal opinion is that first author opportunities to primarily go to our early-career team members. The senior author position (last author) is often reserved for the Project PI. But another member of the PI team might be appropriate for a particular paper. The order of authors in the middle and how they should be arranged to recognize all contributions will be discussed as each manuscript team is established. All proposed manuscripts will be presented by the first author of the outline to the PI team for consideration before work begins in earnest. Larry will be responsible for logging and tracking the progress of all manuscripts.

The same authorship guidelines should be applied to meeting presentations and posters. First author, of course, should be the presenter with other authors making significant contributions included. One hopes that on a project of this magnitude, there will be opportunities for everyone to have their contributions to the success of STRETCH appropriately recognized.

Notes from the last PI discussion of publications:

At the last meeting the PIs debated the roll out of the STRETCH 'Synthesis' paper (aka testing the TCH). We discussed the benefits of having at least 2 years' of data for such a paper, even if it's this year/El Nino vs a normal year. We need to track this decision if we get an extremely newsworthy result for this year. Afterall the results will be on our website and we don't want our findings to be old news by time we publish them.

We also agree we can still present preliminary results at conferences. Upcoming conferences to consider: ISTS (Thailand, Spring 2024?), ASLO Ocean Sciences (New Orleans, Feb 2024), and PICES (TBD, Oct 2024?)

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21864908	21864909	21864910

Ship To: (32435)

George Balazs
Stanford University
992 Awaawaanoa Pl Unit A
Honolulu HI 96825-2635
United States

Weight	Packages
0.00	0

Qty Ordered	Qty To Pack
8.000	8.000

MAIN

21864906 21864907

ZOOM (12-1pm)

11/29/23 12 Noon STRETCH

Oceanography

Wed.

Jeff S.

CACI

MRN (N=8)

GB

LARRY

DANA

ALBERTO

Beverly

MS draft Title

"Multi-decade Northward Expansion of loggerhead Sea Turtle pelagic habitat in the NE Pacific in Response to a Warming Ocean"

No. of Hatchings inputted?

Dep of wild loggerheads

PIs 1PM ~ 2PM Zoom (2hrs difference CA)

Suggested agenda topics from gb for 12/4/23 tomorrow's PI zoom

George Balazs <itsahonuworldinhawaii@hotmail.com>

Mon 12/4/2023 1:38 AM

To:George Balazs <itsahonuworldinhawaii@hotmail.com>

-Our monthly Argos $charges (Now Under BUDGET)

-Voltage status of our tags- 5 months at sea Resting 3.7V when shipped. VARIABLE 3.0V = THE END & That DIED = 3.4 - 3.8

-GB Trip to Nagoya 6-12 December- 7 December Mori-san measuring. TAKE + splash size DIVE FIT

-Maui Wildlife Sympathy message

-Hits on Stretch web page? DANA DOESN'T HAVE ACCESS

~TONGVA MOST NORTHERN VICTOR CLOSET EEZ. ~ AUTHORS

-Kurita-san Aquarium Conference presentations in Tokyo

- ordering of Legacy data set papers
  Which Came First?
  Who/what came first?

-Video on ship

LARRY Genetics — 7 SE, THE Rest SW Tending

LISA CHROMINOSKY TOP Genetics EPIGenetics

50K Yoshi 25 genetics LAPROSCOPE

Get everything we can get out of the Blood SAMPLES

STRETCH #4 6 - 12 DEC. 2023 (113)
WED. TUES.

Dec 05 06 TUESDAY

FL 449

HNL → KIX
Flight HA 449
Oahu - Honolulu, HI (HNL) to Osaka Kansai, Japan (KIX)
Depart
12/05/2023 01:25 PM
Arrive
12/06/2023 06:45 PM

1:35pm

Guest
George Balazs

2G
~~2C~~ BUSINESS CLASS

Dec 12 HA 450

KIX → HNL
Flight HA 450
Osaka Kansai, Japan (KIX) to Oahu - Honolulu, HI (HNL)
Depart
12/12/2023 08:45 PM
Arrive
12/12/2023 09:05 AM

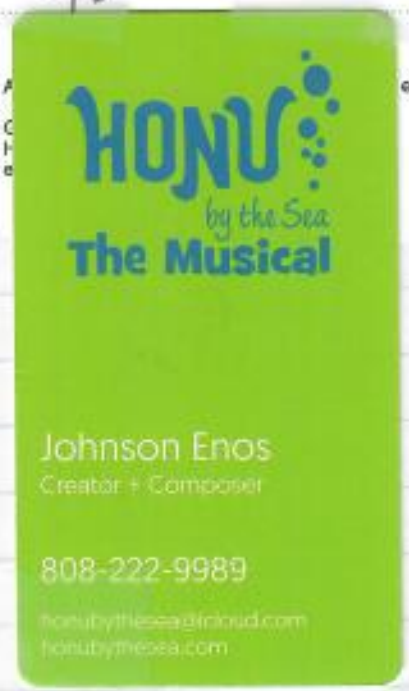
Guest
George Balazs

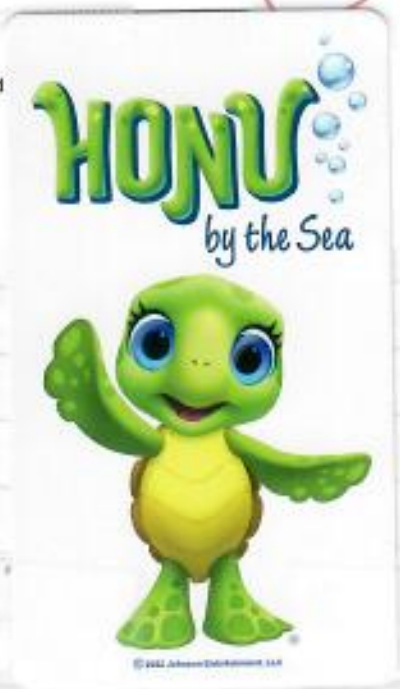
6LYV4E

Payment Summary

1-800 367 5320

Base Airfare:	$1,561.00
Seat Cost:	$111.00
Taxes and Fees:	$412.05
Total Travel Cost:	**$2,084.**





HAWAIIAN AIRLINES TSA PRECHK BOARDING PASS

BALAZS/GEORGE HARV

FLIGHT HA450 O 12DEC2023 KIX > HNL

GATE	BOARDING STARTS	ZONE	SEAT
30	07:55PM	2	16C

BOARDING ENDS 08:30PM

LOYALTY: HA****970 Pualani Gold
CONFIRMATION CODE: 6LYV4E
E TICKET: 1732301508126
SEQ: 0035 (V121139)

電気・水道工事
PC 通信 音響
家電販売・修理
尾田電器店

代表
尾田賢治

〒645-0021
和歌山県日高郡みなべ町東本庄 268-1
電話 0739-74-3297 FAX 0739-34-3431
携帯 090-6246-2342
メール meettheparentsjp@yahoo.co.jp

Dep,
EVA 1745h
CAL 1855
Guam UA/AWA

HAWAIIAN AIRLINES TSA PRECHK BOARDING PASS

BALAZS/GEORGE HARV

Parked Row E Level 6

FLIGHT HA449 ~~C 05DEC2023~~ 06DEC HNL > KIX

GATE	BOARDING STARTS	ZONE	SEAT
C7	12:50PM	1	2C

BOARDING ENDS 01:20PM

LOYALTY: HA****970 Pualani Gold
CONFIRMATION CODE: 6LYV4E
E TICKET: 1732301508126
SEQ: 0240 (016597)

PLUMERIA LOUNGE

(115)

epigenetics L KOMOROSKE@UMASS.EDU

DR. HISAHI HASHIMOTO FACULTY of SCIENCE AT NAGOYA UNIV.

DR. HARUKO TAKEDA ♀ KYOTO UNIVERSITY epigenetics

Yoshi & TOMOMI CLASSMATES

CSIRO Australian Author =
1

BALAZS/GEORGE
6LYV4E 1 PC
PRINT DATE GMT: 06DEC23
HNL
0 173HA 568118 20

OSAKA KANSAI INTL

KIX

HA449 06DEC 13:35

0 173HA 568118

HAWAIIAN

NAME
BALAZS/GEORGE HARV
Jennifer Rose

FLIGHT HA449 C
FROM HONOLULU/HNL
TO OSAKA/KIX

DEPART 01:35PM
ARRIVE 06:45PM

ZONE 1
STBY/UPG
SEAT 2C

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PHOTO
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X ANA

OVER

117

三重大学
MIE UNIVERSITY

石井　彩羽
Sawa　Ishii

12/8/23

生物資源学部 海洋生物資源学科
魚類増殖学研究室
Faculty of Bioresources
Department of Marine Bioresources
Fish Stock Enhancement Lab.

〒514-8507
三重県津市栗真町屋町1577
1577 Kurimamachiya-cho, Tsu-city,
Mie, 514-8507, Japan

Email: late08.ice05@gmail.com

Photo

井上　巨人

Naoto K. INOUE

Kobe Univ.

@modellingbio

inaoto4696@gmail.com

12/9/23

HAWAIIAN AIRLINES.

NAME
BALAZS/GEORGE HARV

FLIGHT HA449 C
FROM HONOLULU/HNL
TO OSAKA/KIX

DEPART 01:35PM
ARRIVE 06:45PM

ZONE 1
SEAT 2G
STBY/UPG

PRIORITY

第34回日本ウミガメ会議
名古屋港大会

アメリカ

George Balazs

12/8/23
KIX TOKUYAMA

<ご利用条件>

利用日　2023年12月 8日　9時33分 出発
乗車駅　関西空港
降車駅　金山
優先条件　新幹線（のぞみ／みずほ除く）／特急・急行／普通／折返し除く
乗換駅　新大阪
[乗換時間：15分]

- Please be advised that the information below does not ensure on-time train operation and train connections. In some cases, you may be able to catch earlier trains.
- Some extra trains and service changes are not included.
- Time schedule indicated with "▽" is subject to change without notice. For more details, please contact the railway company operating the train.
- Please note that some information are provided only in Japanese.
- "【!】" indicates a station with short transfer time.

・ご案内の内容は列車の接続や運行を保証するものではございません。また、目的地により早く到着する列車に乗車できる場合がございます。
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・ご案内の一部は日本語で記載されています。

3: departs 9:42 → arrives 12:13
Time: 2hr31min　2 transfer(s)
1経路
/ 8　9:42発→12:13着
総時間　2時間31分　乗換回数　2回

9:42 KANSAI AIRPORT
▼
▼ Haruka 12
▼ [Travel Time 54min]
▼
SHIN-OSAKA
[Time Between Trains 18min]

Kodama 720<No Smoking Only>
[Travel Time 68min]

NAGOYA
[Time Between Trains 7min]

Tsuo Line
▼ [Travel Time 4min]
▼
:13 KANAYAMA
----------END----------

2023/12/08 09:34 JR西日本 ホンブ

JAPAN RAIL PASS
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This pass is non negotiable. Insert it in ticket gates and don't forget to take it.
¥29650(A)
(4－タ) 60020-01
C41
7345/3424-516799
2023.12.-8関西空港駅F13発行

指定券
RESERVED SEAT TICKET
関西空港 → 新大阪
KANSAI AIRPORT → SHIN-OSAKA
DEC. 8（9:42発）（10:36着）
HARUKA 12
CAR. 2 SEAT. 12-A
¥***
C11
2023.12.-8関西空港駅F12(4－)
20009-01
7345/3424-516799

新幹線指定券
RESERVED SEAT TICKET
新大阪 → 名古屋
SHIN-OSAKA → NAGOYA
DEC. 8 (10:54発) (12:02着) C44
KODAMA 720 CAR. 13 SEAT. 1-E S
¥***
2023.12.-8関西空港駅F12(4-タ) 30010-01
7345/3424-516799

新幹線指定券 Delayed so got on
名古屋 → 新大阪
12月11日 (11:43発) (12:51着) C03
こだま 711号 全席禁煙 14号車 9番E席
¥***
C 5
Another TOSHIN OSAKA
2023.12.11(中)金山駅MR1(3-) 60209-01

新幹線指定券
RESERVED SEAT TICKET
姫路 → 名古屋
HIMEJI → NAGOYA
DEC. 11 (16:11発) (17:42着) C30
HIKARI 516 CAR. 6 SEAT. 17-A
¥***
2023.12.11姫路駅F12 (4-タ) 60069-01
7345/3424-516799

新幹線指定券 TOKUYAMA
新大阪 → 徳山
12月11日 (13:23発) (15:13着) C61
ひかり 557号 全席禁煙 5号車 14番C席
¥***
C 5
Got off HIMEJI
2023.12.11(中)金山駅MR1(3-タ) 60209-02

新幹線指定券
RESERVED SEAT TICKET
名古屋 → 新大阪
NAGOYA → SHIN-OSAKA
DEC. 12 (15:03発) (15:57着) C33
HIKARI 513 CAR. 12 SEAT. 11-E
¥***
Track 16-17
2023.12.12(中)金山駅MR2(3-) 00056-01

指定券
RESERVED SEAT TICKET
新大阪 → 関西空港
SHIN-OSAKA → KANSAI AIRPORT
DEC. 12 (16:28発) (17:23着) C50
HARUKA 41 CAR. 9 SEAT. 6-D
¥***
2023.12.12(中)金山駅MR2(3-タ) 00056-02

12/8/23 DINNER

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加盟店名 MERCHANT	トンカツ マメゾン 052-332-2370
ご利用日 DATE	23/12/08 20:16:50
カード会社 CARD COMPANY	MUFG CARD
カード番号 CARD NO	IC 438857XXXXXX4036
端末番号 TERMINAL	49693-801-25755

伝票番号	有効期限	承認番号
80229 SLIP NO.	XX/XX EXP DATE	097594 APP CODE
取引区分 売上 TRAN TYPE	支払区分 一括 PMT TYPE	商品区分 0310 COM CODE

金額 AMOUNT	¥6,754
△計△額 品計金額 TOTAL AMOUNT	¥6,754

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売場	係員

ARC : 00 お客様控

12/8/23

とんかつ マメゾン

アスナル金山店 052-332-2370

名古屋市中区金山１丁目１７－１
アスナル金山内

2023年12月 8日(金)20時28分000101

エビフライ定食		
@2,068x	3	¥6,204内
生ビール ジョッキ		¥550内
伝票No.	156	テーブルNo. 5

計 額	¥6,754
§内税対象	¥6,754)
§内税額	¥614)
税 等	¥614)
計	¥6,754
ジット	¥6,754
点数	4点

軽減税率(8%)適用商品
番号T1180001003000

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アントレマルシェ姫路店
兵庫県姫路市駅前町１６８－１
MACHINE EAT
電話：079-283-2700
HIMEJI
事業者登録番号T6140001055008
2023年12月11日(月) 16:00 貴100

領 収 書

ﾌﾞﾃｨｰﾝｼｭｶﾞｰ&ｸﾗﾝﾁ	*138
紅茶花伝ﾐﾙｸﾃｨｰﾎｯﾄ440ml	*145
小 計（税抜 8%）	¥283
消費税等（ 8%）	¥22
合 計	¥305
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12/11/23

UTokyo 12/8/23

Dr. SATO, Katsufumi
Behavior, Ecology and Observation Systems
Department of Marine Bioscience
Atmosphere and Ocean Research Institute
Professor

THE UNIVERSITY OF TOKYO
5-1-5 Kashiwanoha, Kashiwa, Chiba 277-8564 JAPAN
Tel: +81-4-7136-6220
E-mail: katsu@aori.u-tokyo.ac.jp
URL: http://www.fishecol.aori.u-tokyo.ac.jp/sato/

12/9/23 TAKEJATHMA NEWS AMAMI

海暮らし
海の写真家
NPOタートルクルー 代表
部連海帆船倶楽部 B.B.Y.C. 代表
奄美・宇検村漁協 準組合員
潜水士

Life on the Soft Water
Ocean Photographer
Captain of NPO Turtle Crew
Commodore of Buren Bay Yacht Club
Fisherman of Uken, Amami
Diver

La vida en el agua salada
Fotografo oceanico
Capitan de NPO TurtleCrew
Comodoro del Club Nautico de Buren Bay
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SPLASH

Customer ID	PO Number	FOB: Ship Via:	Terms Deposit in full required	Ship Date 03 Oct 2023

Item	Description	Qty	Ship	Back Ord	Unit Price	Amount
DUMMY	Non-Functioning Model of Tag SPLASH10-F-351A-AF-00	1	1	0	200.00	200.00
CR-GRATIS	Waiver of Charge	1	1	0	-200.00	-200.00

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領収書

デリカステーション名古屋北待合
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レジ袋		¥3
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（地雷也）徳川	※	¥1,188
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内税8%対象額	8.00%	¥1,800
内税8%	8.00%	¥133
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ありがとう 12/8 12/10/23 MA, MAISON KANAYAMA / とんかつ マ・メゾン NO. END

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クレジットカード売上票
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加盟店名 MERCHANT	トンカツ メゾン 052-332-2370
ご利用日 DATE	23/12/10 19:44:10
カード会社 CARD COMPANY	MUFG CARD
カード番号 CARD NO	IC 438857XXXXXX4036
端末番号 TERMINAL	49693-801-25755

伝票番号	有効期限	承認番号
80468 SLIP NO.	XX/XX EXP DATE	025174 APP CODE
取引区分 売上 TRAN TYPE	支払区分 一括 PMT TYPE	商品区分 0310 COM CODE

金額 AMOUNT	¥2,948
合計金額 TOTAL AMOUNT	¥2,948

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C03 A0000000096 VISA CREDIT

売場	係員

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名古屋市中区金山１丁目１７－１
アスナル金山内

2023年12月10日(日)19時55分000101

ホタテかつ定食	¥2,398内
生ビール ｼﾞｮｯｷ	¥550内
伝票No. 131	ﾃｰﾌﾞﾙNo. 18
小 計 額	¥2,948
(10%内税対象	¥2,948)
(10%内税額	¥268)
(消費税 等	¥268)
合 計	¥2,948
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合計点数	2点

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1名

ICU honey

Riko Kimura

木村 莉子

12/9/23

国際基督教大学 ICU
環境研究専攻
Environmental Studies
Email: rikokimura13@icloud.com

12/9/23

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12/9/23

高知大学大学院
総合人間科学研究科 理工学専攻 海洋動物学研究室

平野 晴真
Hirano Haruma

Tel ：080-1346-0074
E-mail：sunny.hrnhrn.928@gmail.com
b22mk423@s.kochi-u.ac.jp

一宮ウミガメを見守る会 FB

Ichinomiya Sea Turtle Association

会長 渡部明美

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Umi Tsukamoto
カメを愛する小学1年生
つかもと うみ

Profile
- 日本ウミガメ協議会個人会員
- 夢はウミガメ博士
- 0-6歳までフィリピン育ち

e-mail nksu0708@yahoo.co.jp

近畿大学 農学研究科
環境管理学専攻 生態系管理学研究室

Vitamin D3 12/9/23

持丸 穂波

Key words
ウミガメ
UVB
D3

Mochimaru Honami

〒631-8505 奈良市中町 3327-204
E.Mail. honami-0724@outlook.jp

FP OKINAWA

琉球大学 理学部 海洋自然科学科 生物系

12/9/23

Matsukawa Yuka
松川 夕華

UNIV RYUKU

〒903-0213
沖縄県西原町字千原1番地
℡：090-9588-7155
mail：yuka.m.turtle@gmail.com

Sea Turtle Association of Japan
特定非営利活動法人(NPO)日本ウミガメ協議会

Director Hirate Koichi
理事 平手 康市

E-mail:hirate@umigame.org

協議会本部
〒 573-0163 大阪府枚方市長尾元町5-17-18-302
TEL:072-864-0335 FAX:072-864-0535 HP:www.umigame.org

営業時間 24時間営業
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36 ﾚｼﾞNO 03 2023年12月9日 (土)19:48

(ﾀﾞﾌﾞﾙﾁｰｽﾞﾊﾞｰｶﾞｰｾｯﾄ)	680	(1ｺ)	¥680
ﾀﾞﾌﾞﾙﾁｰｽﾞﾊﾞｰｶﾞｰ		1ｺ	
ﾏｯｸﾌﾗｲﾎﾟﾃﾄS		1ｺ	
ﾌｧﾝﾀｸﾞﾚｰﾌﾟM		1ｺ	

小計	3ｺ	¥680
(内消費税		¥61)
10%対象		¥680
(内消費税		¥61)
合計		¥680
クレジット支払		¥680
おつり		¥0

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伝票番号 8224
会員番号 **********4036
承認番号 0086834
ｶｰﾄﾞ種類IN 0824

「クレジット売上票」 G
加盟店名
ｽｼﾎﾝﾀｸ ｶﾀﾔﾏﾁｾﾝ
052-681-0041 12/11/23
端末番号 49664-560-38847
ご利用日 23/12/11 20:01:14
伝票番号 12621
会員番号 XXXXXXXXXXXX4036(IC)
承認番号 034374

取引内容	支払区分	取扱区分
売上	一括	110
ｶｰﾄﾞ会社	有効期限	
MUFGｶｰﾄﾞ	XX/XX	

金額 ¥2,080
△計△額
口計金額 ¥2,080
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
S511441 C03 A00097 VISA
売場: 係員:
00
21542ec1e34dc98d
INFOX
お客様控え

HIMEJI CASTLE 12/11/23 MONDAY

$1,500 X2

TOKYO UNIV. GRACE - OGASAWARA

SUCCESS 5 MONTHS VOLTAGE

とんかつ MA MAISON

SAT. TAGS 17← 23 of 25 →6

BOAT / PERSONS

MONTH - PAUL 6/26/24

SIZE RANGE NOW?

DUTTON - BLOOD?

25 OF 30 2024 =3

SAME 2-4 LARGER DIVE DATA

SCL NOW?

VIDEO ON SHIP

JOHNSON ENDS CARD

EPIGENETIC - CITES

2024 N=30

SAME ONE CLUTCH YES

N= 2025 50 ALL THE SAME? NEST

12/13/23 Wed. Larry Telecon 11AM (125)

60 for 2025 30 Kochi (30 captive Bred) Cindy PAUL A

30 7R

15:6

Need Epigenetic to 15, 600 Samples?

up it up

Based on cost last year, can collect Trawl SHIP

No need to make detail understand

12/13/23 AM Larry Telecon 1102 1227PM L★PROSCOPE

ふんどし姿で勢いよく川に飛び込む男衆
―9日午後、岐阜市の長良川で（岡崎彩樹撮影）

12-9-23 NAGOYA

冷水ざぶん 心身清める

長良川

岐阜市の長良川で9日、「池ノ上みそぎ祭」があり、ふんどし姿の幼稚園児から70代までの男衆87人が清流で身を清めた。

同市池ノ上町の葛懸神社の氏子が心身の汚れを払い、神様を出雲大社から迎える伝統行事で、600年以上前から続くとされる。神社で神事を終えた氏子らは「わっしょい」とかけ声を上げながら川岸へ移動。冷たい水の中へ勢いよく飛び込むと、肩までつかって祝詞を上げたり、水をかけ合ったりした。

みそぎを取り仕切る神宣の北川高志さん(46)は「暖かい日でしたが、水は冷たかった。地域に災いなく過ごせますように」と願った。

マクドナルド金山店
名古屋市中区金山4-6-25
052-321-3157
営業時間 24時間営業
登録番号：T5011101033783

54 レジNO 01 2023年12月12日（火）08:44

(ビ"ッグ"BFデ"ラックスセット)	810	(1コ)	¥810
ビ"ッグ"BFデ"ラックス		1コ	
ハッシュポテト		1コ	
プレミアムローストコーヒーM		1コ	
XTRA コーヒーフレーム		1コ	
ミニッツメイド"M	270	1コ	¥270
バターポット	0	1コ	¥0
ホットケーキシロップ	0	1コ	¥0
ストロベリージャム	0	1コ	¥0
ジオ・ジョッキ	0	1コ	¥0
小計		8コ	¥1,080
(内)消費税			¥98)
10%対象			¥1,080
(内)消費税			¥98)
合計			¥1,080
クレジット支払			¥1,080
おつり			¥0

クレジット　CL売上
VISA/[illegible]
伝票番号
会員番号　**********
承認番号　[illegible]
上位端末ID　0824689403753
AID　A0000000031010
VISA CREDIT
VISA CREDIT

127

CARDNET

SERVICE INFORMATION

This service allows you to pay in your home currency.

JPY AMOUNT JPY 110,500

USD AMOUNT USD 795.60

EXCHANGE RATE: JPY 1 = USD 0.0072

Please select currency for payment

Select on PINPAD

JPY → Push F1 Button

USD → Push F2 Button

USD transaction will be based on REUTERS WHOLESALE INTERBANK exchange rate and includes a 3.99% margin*.

お客様 CUSTOMER COPY

ANA CROWNE PLAZA

AN IHG HOTEL

HOTEL GRAND COURT NAGO

INVOICE

お名前 /Name Gec

会社名 /Company

エージェント名 /Age

売掛番号 /AR No.

備考 /Remarks

ご到着 /Arrival	: 2023年12月08日
ご出発 /Departure	: 2023年12月12日
人数 /No. of guest	: 1
客室番号 /Room No.	: 2306
ﾒﾝﾊﾞｰ番号 /IHG® Rewards Club	: 276925712
明細番号 /Folio No.	: 267558
担当 /Cashier	: Front1-3
ﾍﾟｰｼﾞ /Page No.	: 1 of 1

日付 Date		ご利用 Debit	お預かり Credit
12-08-23	Accomodation	27,625	
12-09-23	Accomodation	27,625	
12-10-23	Accomodation	27,625	
12-11-23	Accomodation	27,625	
12-12-23	Credit Card		110,500
合計/Total		110,500	110,500

ご利用金額/Total Amount 10%	110,500
ご利用金額/Total Amount 8%	0
(内消費税/Consumption Tax 10%	10,045)
(内消費税/Consumption Tax 8%	0)

Business Class Meal

12/6/2023 HNL> KIX

Pre-departure

Signature Mai Tai cocktail will be served

During the Flight

Please select either the Japanese or Hawaiian Fusion Menu

After take-off

Beverage/cocktail service

Mauna Loa Macadamia Nuts

Option 1 | Japanese Menu

Appetizer
Broiled Eggplant with Miso, Marinated Tuna, Spinach with Sesame Sauce and Salt Broiled Shrimp

Entrée
Broiled Miso Chicken, Assorted Vegetables, served with Pickled Vegetables, Miso Soup and Steamed Rice

Option 2 | Hawaiian Fusion Menu

Appetizer
Curry Quinoa Salad

Entrée
Wasabi Black Pepper Shortrib with Seasonal Vegetables and White Rice

From the dessert cart

Taro Cheesecake with Haupia Poi Sauce
by Executive Chef Michelle Karr-Ueoka and La Tour Café

Coffee, Tea and Liqueurs

Snacks available upon request. Ask your flight attendant for today's selection.

Prior to landing (Please select one)

Option 1

Soy Glazed Chicken Meatballs
Seasonal Vegetables and Tteokbokki (Korean Rice Cake)

or

Option 2

Roast Beef Sandwich
Provolone Cheese, Pickled Vegetables and Taro Chips

Seasonal Fresh Fruits

Coffee and Assorted Teas

離陸前のサービス

ハワイを代表するカクテルのマイタイをご用意しております

フライト中のサービス

和食または創作ハワイアンメニューのいずれかをお選びください。

離陸後のサービス

お飲物をマウナ・ロア マカダミア ナッツと共に

和食

小鉢
なすの田楽、まぐろ漬、ほうれん草の胡麻和え、小海老の塩焼き

台の物
鶏の味噌漬け焼き、季節の付け合わせ、香の物、御飯、御味噌汁

創作ハワイアンメニュー

前菜
カレー風味のキノアサラダ

主菜
ショートリブのワサビブラックペッパーソース煮込み、季節の温野菜、ご飯

デザートカートから

ハウピアポイソースのタロイモチーズケーキ
by エグゼクティブ シェフ ミッシェル・カー・ウエオカ氏と La Tour Café

コーヒー、紅茶、リキュール

スナックをご希望のお客様は、お気軽にお近くの客室乗務員へお申しつけください

ご到着前のお食事 (一つお選びください。)

鶏団子
醤油風味、季節の温野菜、トッポキ

または

ローストビーフ
プロボローネチーズの サンドイッチ、タロイモチップスとピクルス添え

季節のフレッシュフルーツ

コーヒーおよび紅茶各種

ACTIVITIES & MOVEMENTS
12/5 - 12/12/2023
JAPAN NOGOYA PNPA & STAJ34

(129)

12/5/2023 HA 449 TURNED AROUND - Rebooked
Tuesday

12/6 HA449 depart
Wednesday

12/7 ARRIVE KIX
Thursday overnight Nikko Hotel AT KIX

12/8 VALIDATED RAIL PASS - HARUKA TO SHIN OSAKA TO
Friday KANAYAMA - 2PM Check IN ANA Crowne. 330 PM 34TH STAJ PNPA TALKS OPENING
Tempera DINNER

12/9 9AM STAJ opening & ALL DAY - Evening SOCIAL
SATURDAY Sushi Restaurant DINNER

12/10 STAJ 930AM 330PM closing
SUNDAY 12-1 LUNCH SAW Turtles w/ MORI & SAITO

12/11 Met w/ KURITA & MORI & MIYUKI 930-1030AM
Monday SHINKANSEN LOCAL TO KASADERA - video
TO HIMESI - walked TO CASTLE - Photos
Tempera DINNER

12/12
TUESDAY Met with KURITA 11AM - watched Turtles - VIDEOED
BRIEFLY picked up SAKI

SHINKANSEN / HARUKA
TO KIX Departure
ARRIVED 9AM HNL 12/12
TUESDAY.

新江ノ島水族館
ENOSHIMA AQUARIUM

Need Photo

12/9/2023
PIT
SENT

Madoka Kitajima
Animal Husbandry and Exhibition Team

ENOSHIMA AQUARIUM
2-19-1, Katasekaigan, Fujisawa-shi, Kanagawa
251-0035, Japan
TEL +81-466-29-9967 FAX +81-466-29-9974
E-mail:kitajima@enosui.com
https://www.enosui.com/

あかばね塾 photo Loggerhead SHIRT
watanabe Yukihisa
事務局 渡邊 幸久
kgh12124@hifty.ne.jp
自宅：〒441-3501 愛知県田原市高松町一色66
URL：http://www.p-land.jp/akabane_jyuku/
携帯：090-4196-5439

南知多ビーチランド
南知多おもちゃ王国

主任補佐
一野 愛美

株式会社名鉄インプレス
南知多ビーチランド（博物館相当施設）
〒470-3233 愛知県知多郡美浜町奥田426-1
TEL0569-87-2000 FAX0569-87-3776
E-mail : manami.ichino@nrr.meitetsu.co.jp
https://www.beachland.jp/

公式Twitterをフォロー！
@beachland2000

三重大学 ウミガメ・スナメリ 調査・保全サークル
「かめっぷり」

photo subway 12/10/23

酒井 理江
Sakai Rie

selfie

HP: https://kameppuri.wixsite.com/miekame
E-mail: 522719@m.mie-u.ac.jp

Mie University
Graduate School of Bioresources
Molecular Ecology of Aquatic Animals Lab.

Junna Wada

10,000¥

ANCHOR 12/9/23

Adress: 1577 Kurimamachiya-cho Tsu city, Mie 514-8507
E-mail: chunnai.w.jun@gmail.com
523m363@m.mie-u.ac.jp
TEL: 080-9475-1300

神戸動植物環境専門学校 12/9/23
生命科学科 水族館ゼミ

Greeter

西田 陽菜
Hina Nishida

TEL:080-9089-1943
Mail:hina1222teto@gmail.com

筑波大学
University of Tsukuba

生命環境学群 生物資源学類

溝呂木 舞波
（みぞろき まなみ）

〒305-8571
茨城県つくば市天王台1-1-1
E-mail: s2010818@u.tsukuba.ac.jp

日和佐うみがめ博物館カレッタ
HIWASA SEA TURTLE MUSEUM

館長 平手 康市
（ひらて こういち）

〒779-2304
徳島県海部郡美波町日和佐浦370-4 大浜海岸
TEL / FAX：0884-77-1110
e-mail：caretta.director@minami.i-tokushima.jp

TAT Laboratory of Organic Geochemistry (LOG)
Tokyo University of Agriculture and Technology

Takuya Fukuoka
(Ph.D)

Laboratory of Organic Geochemistry (LOG)
Tokyo University of Agriculture and Technology,
3-5-8,Saiwai-Cho, Fuchu, Tokyo, 183-8509, Japan
Tel 042-367-5825 / Mail t.fukuoka2@gmail.com

12/9/2023

Photographer

奥田 希心
okuda kiko

Mail : kiko.photo.home@gmail.com
Instagram : @shika__home__sik

AMAMI STAJ

(133)

About Victor, Nadesiko and Tsubaki

2/6/24

George Balazs
To: You

Tue 2/6/2024 9:20 PM

Locations/water temp and depth and distance from continental shelf as of 2/6/24:

Nadesiko (31.925, -120.019) (15 C) (-2000 M) (240 km from continental shelf)

Tsubaki (30.073, -117.587) (17 C)(-1900 M) (140 km from continental shelf)

Victor (31.857, -119.731) (15 C)(-2900 m) (240 km from continental shelf)

Marc R. Rice

Co-Director, HPA Sea Turtle Research Program

turtle.hpa.edu

Parent '88, '91

Grandparent '16, '18, '19

TUES.
12 NOON
968224
2/6/24
NPI ZOOM

CA STORMS
3 - AT least
45cm SCL
SP - "Hedging Their Bet"
J's - "ARRIVING at The Coast"
N = 231
LARRY
Benthic / VS
PELAGIC
Feeding
Milestone to celebrate
"WAY POINT"
URASHIMA
TARO

"PHASE 2 ARRIVAL" DANA RECTANGLE CONT. SHELF Benthic Feeding

SAME SHIP?
TAKE OUT TO
EXERCISE

2/7/24
Voltage - SAITO

203 = 3.38 - 3.53
204 = 3.38 - 4.30

2/13/2024 Tuesday Zoom

CATHERINE

3PM 4:05PM LEE HING

Languages SPANISH MANDARIN + LARRY

TEL. → 954 310 4502

VIDEO View

SAME SHIP?

Room/Shower/Toilet? Linen, Photos from NOAH

SAT. phone

correction – "SMALL RAFT"

+ LAZARO CARDENAS

Miyuki TV Seasick

STRETCH Oceanography ZOOM

TUESDAY 2/20/24 2PM – 3PM

Diet JP

Temperature 2° vs 4-6°

Turtles

< 2 Km from LAND 2 of them

Turtles moving more Northward than Temp is moving Northward.

Because of prey

"1/3 going to Baja" Larry (?)

2/21/24 1115AM ZOOM TO 1145AM
Programming Dive TAG
STRETCH Jeff P., LAURA, MARC, GB
RE

3/19/24 TUES Zoom with WC & Rowan Calder & Marc Rice Re Programming 2024 CC PNPA Deployments! See His EMAILS.

Yokosuka Japan JCC #1102

JA1NVF

"Kit" K. Yoshinuma
1-16-26, Kubiri, Yokosuka City,
Kanagawa 239 Japan

Aichi Japan JCC #2013

JA2ELG

Yoshio Yamamoto
31-6, Miyanishi, Sakurai-cho, Anjo City,
Aichi 444-11 Japan

167

AICHI JAPAN JCC #2010

JA2PGU

Confirming ☑ Our QSO ☐ Ur Reception Report

DATE	☐ JST ☑ UTC	RADIO	RST	☐ MHz ☐ GHz	2 WAY
87. Aug 2.	0823	TH6BLQ	53	14	SSB

Rig: TS440S Ipt: 200 W. Ant: 2el Quad

Rmks: HPE CU AGN ☐ Pse QSL Trnx ☐ QSL # _____ Trnx FB QSO

Teruaki Osako Teru

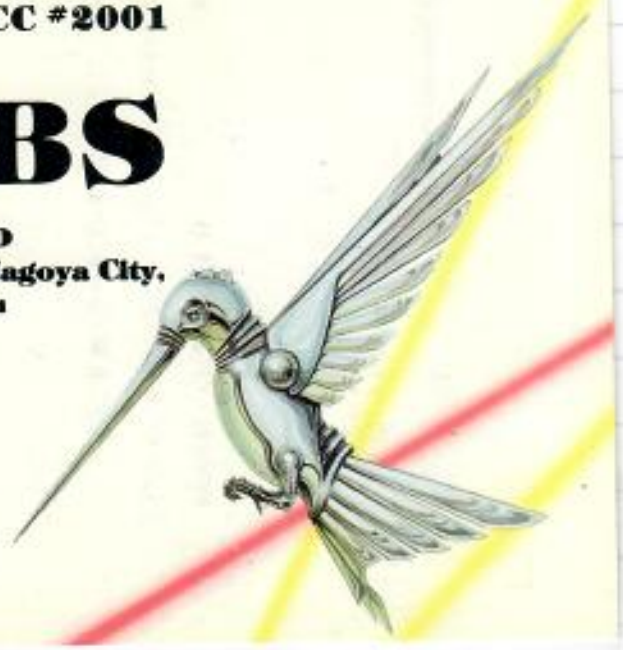
3-28-2, Ojiro-cho, Hekinan City, Aichi 447 Japan

NAGOYA JAPAN JCC #2001

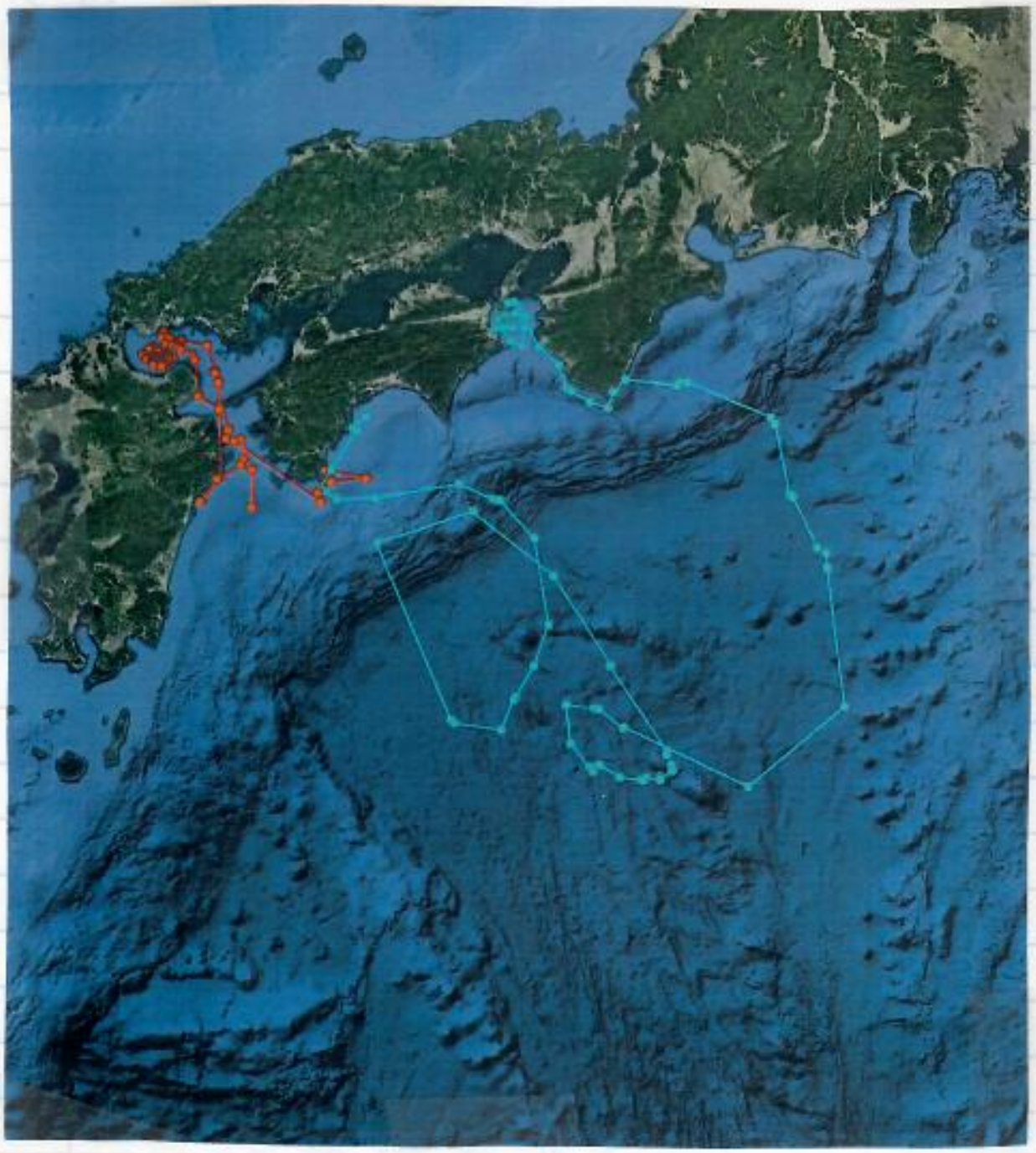
JA2TBS

Masao Kato

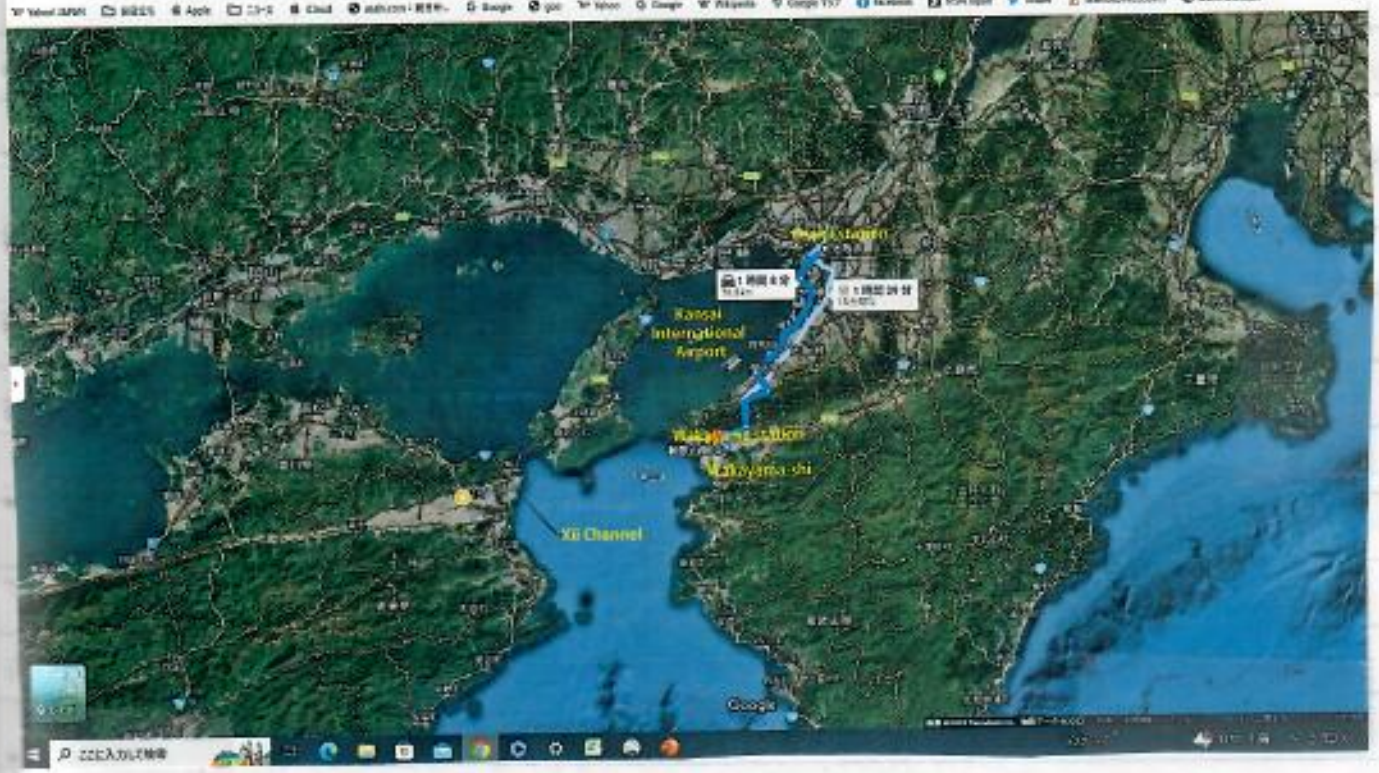
2-151, Yamaki, Nishi-ku, Nagoya City,
Aichi 452 Japan



Red- 203



BLUE ARGOS 204 SAITO-SAN



ウミガメ類の上陸・産卵状況 2023

NESTING OF SEA TURTLE IN JAPAN,2023

「ウミガメ類上陸・産卵アンケート2023年」に対してご回答いただいた結果より、集計・整理いたしました。

アカウミガメ

2023年に集計された上陸・産卵回数はそれぞれ5,793回と2,675回であった。2022年は上陸7,727回、産卵4,108であったため、対前年比は74.9%と65.1%と減少した。本アンケートがスタートした1993年以降のアカウミガメの上陸・産卵回数の推移を図1に示す。1993年から2005年までの産卵回数は2,000～5,000回であった。産卵回数は2006年に大きく減少したが、その後は増加に転じた。特に2008年は急増し、産卵回数ははじめて10,000回を超えた。その後、年変動を繰り返しながら増加し、2013年には約15,000回となった。しかしながら、2014年と2015年に二年連続で大きく減少し、2017年以降は低い水準が続いている。なお、2017年から2020年の低水準においては、日本最大の産卵地である屋久島の情報が得られず、加えて種子島の長浜において十分な調査ができなかったことが影響している（日本ウミガメ調

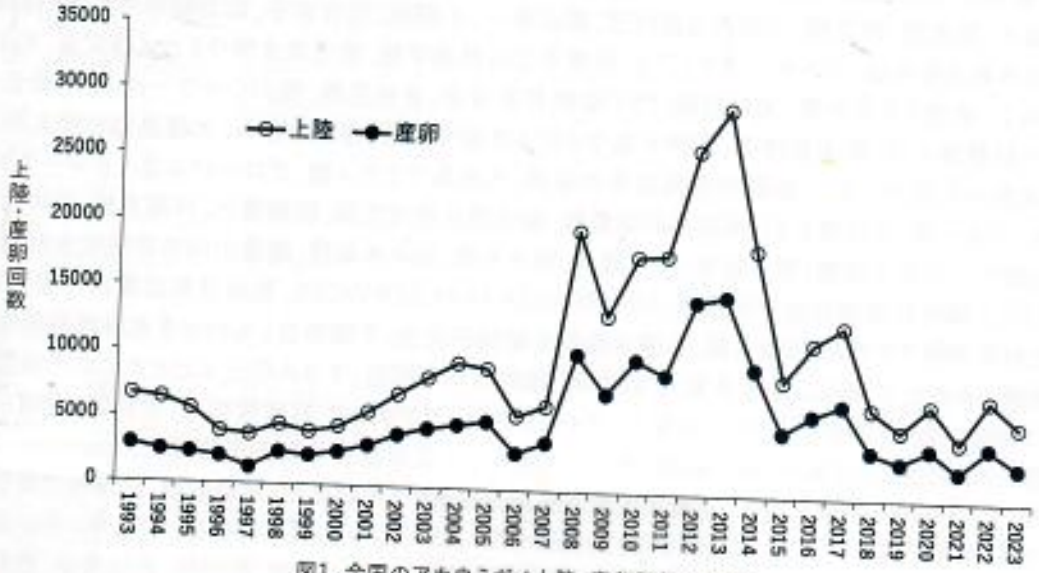
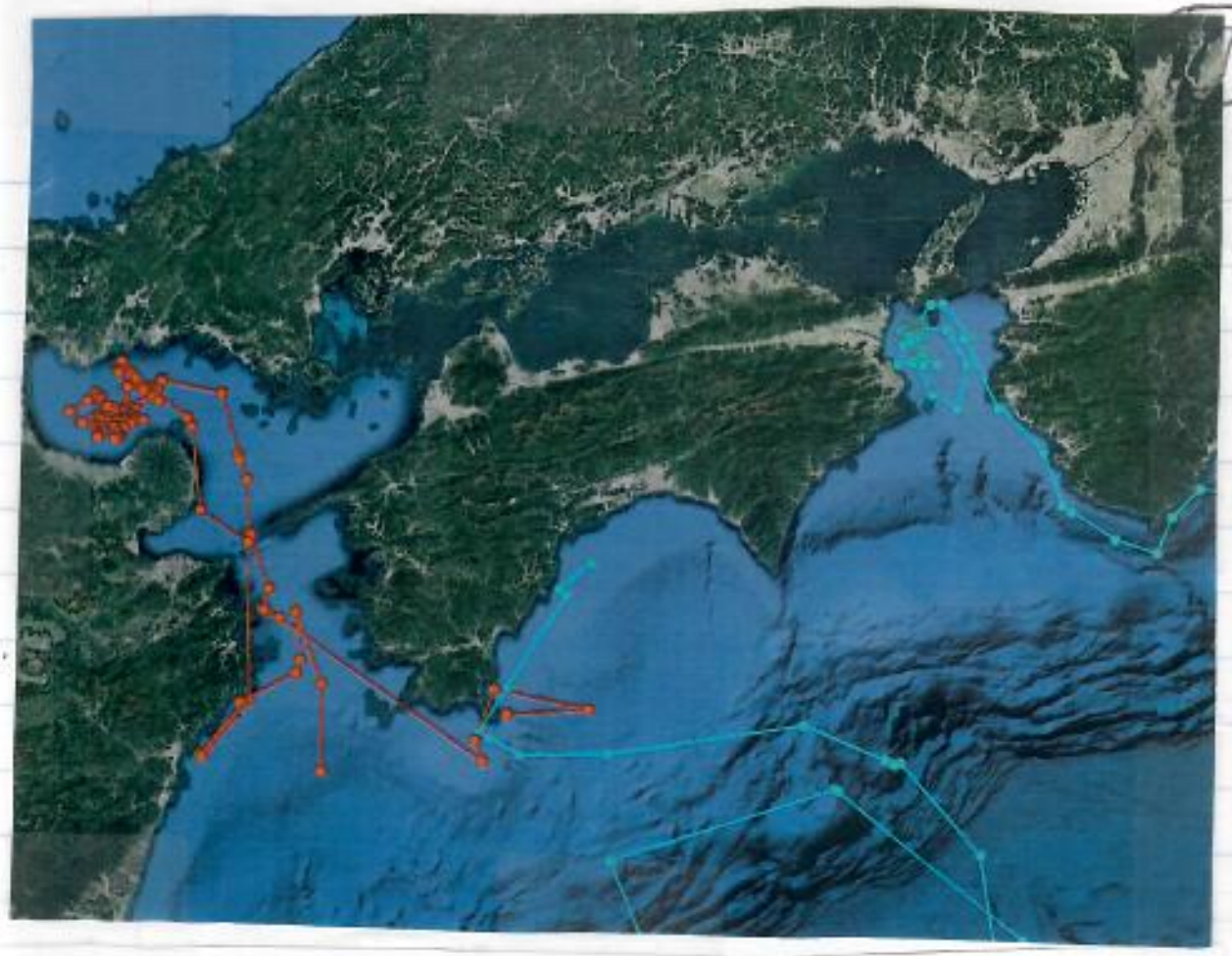


図1. 全国のアカウミガメ上陸・産卵回数の推移



日本で産卵するアカウミガメは、遺伝的に本土（千葉から九州）、大隅諸島（屋久島・種子島）、南西諸島（奄美から八重山諸島）の3つのグループに分かれる（Matsuzawa et al. 2016）この3地域の増減を知るために、地域ごとにグラフにしたものを図2に示した。なお、産卵規模が異なるため、2007年を100とした総対比で示す。全体として、3地域ともに2012年もしくは2013年をピークとして2014年と2015年に大きく減少し、2018年以降は低い水準で推移している。また、3地域ともに今年（2023年）は2007年～2023年までの中で最低レベルの値を示した。

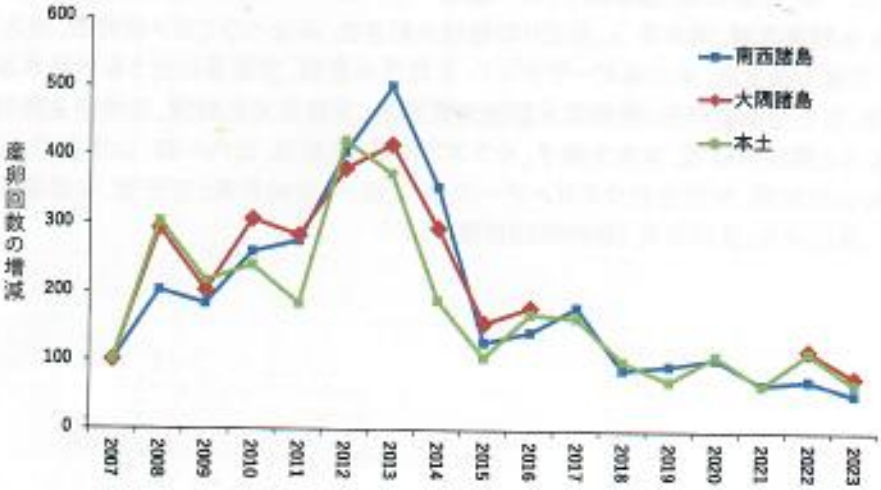


図2. 2007年以降の各地におけるアカウミガメ産卵回数の推移
2007年を100として増減を示した

アオウミガメ

日本では、アオウミガメの産卵地は小笠原諸島と南西諸島に二分される。このうち、小笠原諸島では小笠原海洋センターに情報が集積されている。本報では、南西諸島のアオウミガメの上陸・産卵回数について記載する。2023年におけるアオウミガメの上陸・産卵回数はそれぞれ1,398回と892回であった。昨年度は1,832回と1,075回であったため、対前年比は上陸76.3%、産卵82.9%と減少した。南西諸島におけるアオウミガメの産卵回数の推移及び移動平均線を図3に示す。アオウミガメの産卵回帰年数は4年がピークであることから(Abe et al. 2003)、移動平均は4年とした。その結果、アオウミガメの産卵回数の年変動は大きく、ほぼ横ばいか、若干増加していることが分かる。

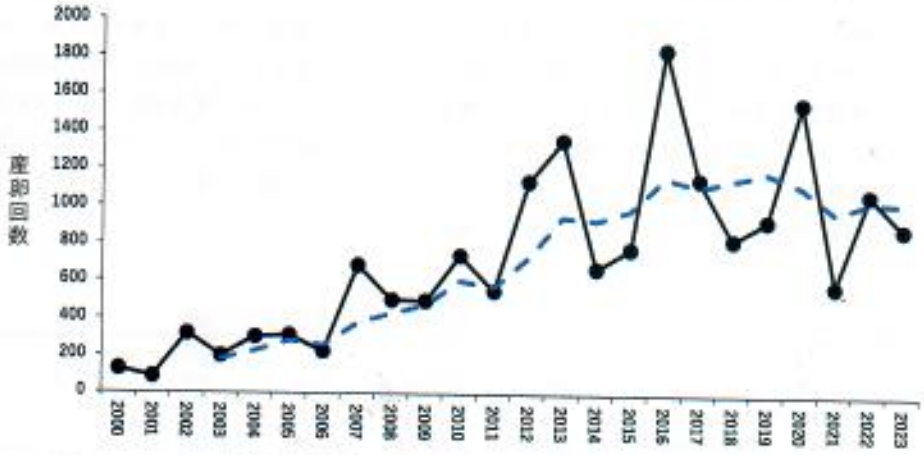


図3. 南西諸島におけるアオウミガメの産卵回数の推移
黒線は産卵の実数、青点線は4年移動平均線

タイマイ

タイマイの産卵は奄美大島から八重山諸島で確認されている(水野2010)。現在のところ、恒常的に産卵が確認されているのは、沖縄島以南である。2023年におけるタイマイの上陸・産卵は、沖縄島及び先島諸島において上陸24回、産卵16回が確認された。1996年以降のタイマイの産卵回数の推移を図4に示す。この28年間で246回の産卵が確認された。年平均は8.7回、最も多かった年は2011年の27回、最も少なかった年は1998年の1回であった。タイマイ1個体が年に4回ほど産卵することを踏まえれば(Mortimer 2000)、産卵個体の数は年に1～7個体ほどとなる。

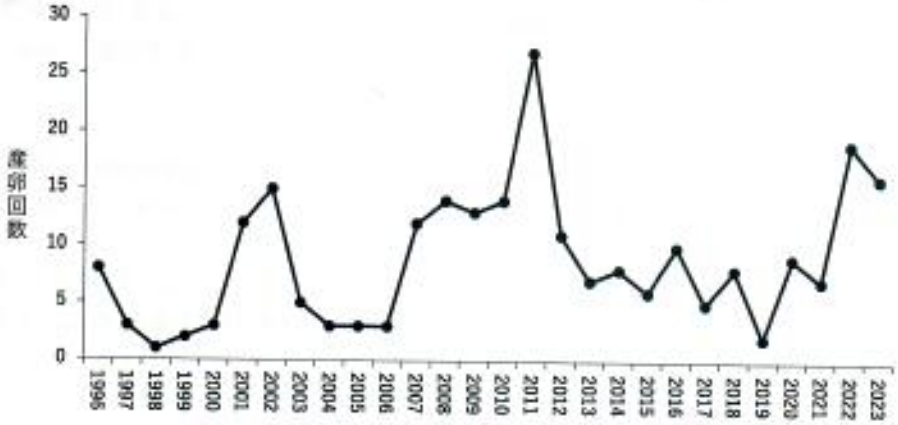


図4. タイマイの産卵回数の推移

種不明

種を同定できなかったウミガメの上陸・産卵は、南西諸島において上陸108回、産卵63回が確認された。

George-san,

12/2023

I don't know if this is the best, but I hope it's helpful.
Either way, I checked a good access from Osaka.

204: (turtle stayed) Kii Channel; (nearest point from Osaka) Wakayama-shi, Wakayama Pref.; (means of going to) JR Osaka station ---(Limited Express Kuroshio, about 1 hr)---Wakayama station; (note) Wakayama station---(Hanwa Line; change train at Hineno station, about 1 hr)--- Kansai International Airport

203: (turtle stayed) Suo-nada Sea; (nearest point from Osaka) Syunan-shi, Yamaguchi Pref.; (means of going to) JR Shin-Osaka station---(Sanyo Shinkansen, about 2 hr)---Tokuyama Station

However, both are a bit far from the station to the sea, so you have to use a taxi or bus to get to the seaside.
If you have time, it may be better to get on the local line to the port town near the sea.

see p. 168-171

Regards, Tomomi

MELICK AQUAFEED

TURTLE DEVELOPER/STARTER
GUARANTEED ANALYSIS

Crude Protein	(min.)	42%
Crude Fat	(min.)	10%
Crude Fiber	(max.)	5%
Phosphorus(P)	(min.)	1%
Ash	(max.)	15%

Ingredients

Animal Protein Products, Plant Protein Products, Processed Grain By-Products, Fish Oil, Soy Lecithin, Calcium Lignin Sulfonate, Vitamin A Supplement, Vitamin D3 Supplement, Riboflavin Supplement, Niacin Supplement, Calcium Pantothenate, Vitamin B12 Supplement, Choline Chloride, d-Biotin, Thiamine Mononitrate, Pyridoxine Hydrochloride, Vitamin E Supplement, Menadione Sodium Bisulfite Complex (source of Vitamin K activity), Folic Acid, L-ascorbyl-2-Polyphosphate (source of Vitamin C), Ethoxyquin (A preservative), Potassium Iodate, Salt, Magnesium Sulfate, Zinc Sulfate, Copper Sulfate, Sodium Selenite

CAUTION

Store in a dry, well ventilated area, free from rodents and insects. Do not use moldy or insect infested infested feed.

Manufactured By:
Melick Aquafeed
139 South First Street
Catawissa, Pennsylvania 17820
1-800-358-6595

NET WT.40 lbs.

5.0 MM

106

Melick Aquafeed

TURTLE FINISHER

GUARANTEED ANALYSIS:

Crude Protein	Minimum 35%
Crude Fat	Minimum 4%
Crude Fiber	Maximum 5%
Phosphorus (P)	Minimum 1%
Ash	Maximum 15%

Ingredients

Animal Protein Products, Plant Protein Products, Processed Grain By-Products, Fish Oil, Soy Lecithin, Calcium Lignin Sulfonate, Vitamin A Supplement, Vitamin D3 Supplement, Riboflavin Supplement, Niacin Supplement, Calcium Pantothenate, Vitamin B12 Supplement, Choline, Chloride, d-Biotin, Thiamine Mononitrate, Pyridoxine Hydrochloride, Vitamin E Supplement, Menadione Sodium Bisulfite Complex (source of Vitamin K activity), Folic Acid, L-Ascorbyl-2-Polyphosphate (source of Vitamin C), Ethoxyquin (a Preservative), Potassium Iodate, Salt, Magnesium Sulfate, Zinc Sulfate, Copper Sulfate, Sodium Selenite.

CAUTION

STORE IN A DRY, WELL VENTILATED AREA, FREE FROM RODENTS AND INSECTS. DO NOT USE MOLDY OR INSECT INFESTED FEED.

Manufactured By:
MELICK AQUAFEED
139 South First Street
Catawissa, Pennsylvania 17820
1-800-358-6595

NET WT. 40 lbs.

7.0 MM

アカウミガメの放流 北太平洋中部で成功

名古屋港水族館 サイト上で回遊経路確認も

●アカウミガメの回遊経路を示すサイトを紹介する栗田館長＝名古屋市港区の名古屋港水族館で ●回遊経路を調べるため、放流されるアカウミガメ＝北太平洋中部の海上で（同水族館提供）

名古屋港水族館（名古屋市港区）が北太平洋のアカウミガメの回遊経路を調べている共同研究で、同館は十四日、北太平洋中部の海上で、アカウミガメ二十五頭の放流に成功したと発表した。研究の公式サイトも開設され、放流されたカメの位置情報をリアルタイムで確認することができる。

送信機を取りつけられたアカウミガメは六月二十七日、同区の名古屋港金城ふ頭で、商船三井の自動車船「ギャラクシーエース」に乗せられ出発。日本時間で十一日午前十時ごろ、北太平洋中部の海上に放流された。アカウミガメの健康に問題なく、元気に泳いでいるという。

公式サイトでは、研究の背景や概要を紹介するほか、それぞれのアカウミガメの回遊経路を日時とともに確認できる。名港水族館のホームページからもアクセスできる。栗田正徳館長は「アカウミガメは絶滅の恐れがあり、日本での産卵数も減っている。研究をきっかけに関心を持ってもらい、将来の保全につなげていきたい」と期待する。

アカウミガメの生態を調べるため、研究は五年計画で実施。毎年、二歳前後のアカウミガメ二十五頭を北太平洋中部で放流し、北米西海岸に至る回遊経路と海水温の変化の関連性を調べ、効果的な保護活動につなげる。（坂本圭佑）

7/15 中日朝刊
（県内版）

175

アカウミガメ回遊経路 送信機で追跡へ

名古屋港水族館と研究者ら

名古屋港水族館（名古屋市港区）は、アカウミガメの回遊経路を解明するため、海外の研究者らと共同調査をする。第1弾として、送信機を取りつけた子ガメ25匹を7月中旬に北太平洋沖で放流する。

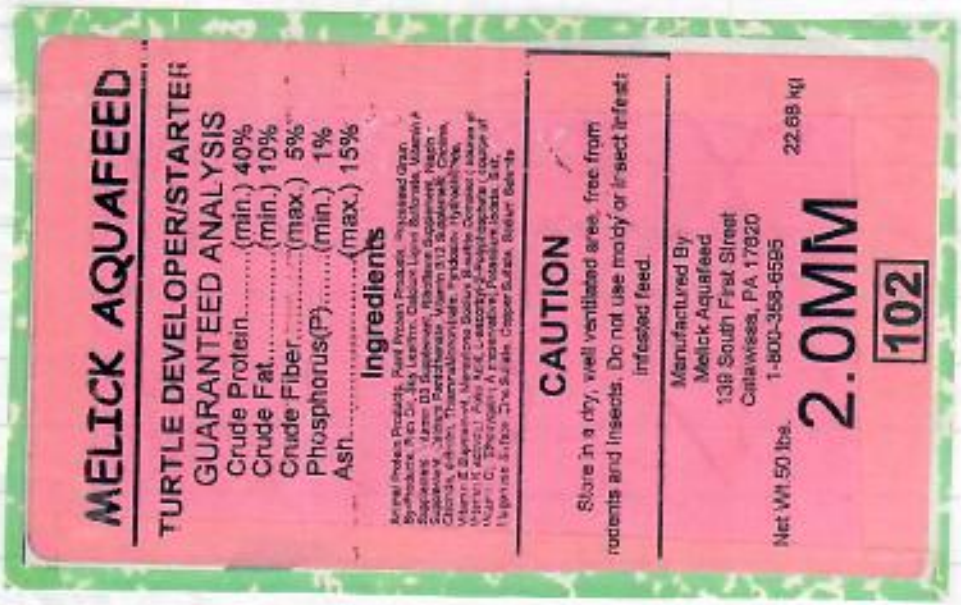
今月20日からの3日間、同水族館で米国やニュージーランド、メキシコなどの研究者ら約10人が集まり、アカウミガメの甲羅に送信機を取り付けた。

来月、北太平洋で放流

日本の海岸で生まれたアカウミガメは、海流に乗って米国のハワイ近海へ。さらに、カリフォルニア半島沖へたどり着くと考えられている。だが、回遊の詳しい経路は長年、謎に包まれてきた。

今回の調査では、向こう5年間にわたって計100匹を放流し、調査する。位置情報をリアルタイムで追跡しながら、海水温などの海洋環境のデータも集める。水族館のホームページで位置情報などを公開する予定。（松永佳伸）

6/29（木）朝日



12/2023 KANAYAMA

Local ID	Release	Tricom PIT Tag ID (Right hoodlinks)	Second Tag No. (Left hoodlinks)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)
		Installed on 12/9/2022		Measured on 12/9/2022			Measured on 1/9/2023			Measured on 2/5/2023		
			The tag was about to come off, so re-tagging									
CrW21-01	O	0001457B8A	9315	31.8	29.8	5.6	33.3	28.0	6.4	34.8	27.0	6.0
CrW21-02	O	0001435D6B	5369	29.4	24.9	4.0	30.4	25.0	5.0	31.3	26.0	5.2
CrW21-03	O	0001484418	5368	36.8	30.0	8.8	38.3	31.2	10.0	39.1	31.8	8.8
CrW21-04	O	0001398F58	9375	33.5	28.3	6.7	34.3	29.2	7.7	36.3	30.5	7.8
CrW21-05	O	0001B8F072	5373	31.1	26.3	5.3	32.6	27.0	6.0	34.3	28.6	6.4
CrW21-06	O	0001234948	5380	29.9	25.8	5.4	32.4	27.1	6.1	33.5	28.1	6.5
CrW21-07	O	0001BC0798	9374	30.5	25.2	4.7	31.8	26.3	5.8	33.3	27.1	5.7
CrW21-08	O	0001B98830	9376	31.4	26.8	5.2	33.1	27.5	6.0	34.4	28.7	6.8
CrW21-09	O	0001344239	5359	31.4	26.8	5.9	33.0	27.8	6.8	34.4	29.3	7.2
CrW21-10	O	0001238B84	5384	28.6	24.0	4.3	28.7	28.0	4.9	30.4	25.7	4.8
CrW21-11	O	0001D49F3C	9371	28.0	24.9	4.1	29.5	25.3	4.7	30.7	26.1	5.0
CrW21-12	O	0001918B0C	9372	30.0	26.4	4.9	31.1	26.5	5.3	32.1	27.3	5.8
CrW21-13	O	0001233648	5342	31.4	26.8	5.8	32.6	27.7	5.9	33.0	28.0	5.7
CrW21-14	O	0001480B0A	5337	28.4	24.0	4.7	29.4	25.1	4.7	30.3	25.6	4.8
CrW21-15	O	0001999F06	9343	27.8	24.0	4.0	28.8	25.3	4.8	29.7	25.9	4.9
CrW21-16	O	0001338564	5346	31.4	26.1	5.3	32.8	27.1	6.2	33.8	27.8	6.2
CrW21-17	O	0001819F09	9361	28.6	24.7	4.4	30.4	25.6	5.0	31.5	26.3	5.2
CrW21-18	O	0001842215F	9364	30.0	25.3	5.1	32.4	26.3	5.9	33.3	27.5	6.0
CrW21-19	x	0001321BCF	5338	31.6	26.2	5.7	33.3	28.0	6.4	34.0	28.4	6.6
CrW21-20	O	0001D84009	5340	31.1	26.3	5.6	32.6	27.8	6.2	33.6	28.2	6.4
CrW21-21	O	0001D8AF78	5335	30.1	25.6	5.0	31.8	26.6	5.8	32.7	27.5	6.0
CrW21-22	O	0001B9F169	9340	31.3	26.1	5.7	32.7	27.1	6.5	33.8	28.0	6.7
CrW21-23	O	0001B0C9B6	5347	30.0	25.7	5.1	31.3	26.7	5.7	32.2	27.5	5.9
CrW21-24	O	0001A08F94	5388	31.4	26.5	5.2	32.5	27.7	5.9	33.3	28.2	5.8
CrW21-25	O	0001A05205	9365	28.1	24.8	4.4	30.3	25.6	5.0	31.3	26.4	5.0
CrW21-26	x	0001924A40	5339	29.8	25.7	4.8	30.8	26.7	5.3	32.4	27.6	5.3
CrW21-27	O	0001194B82	5336	30.8	28.0	4.9	32.2	26.7	5.8	33.3	27.8	6.4
CrW21-28	x	0001A81707	5334	28.8	26.3	4.7	28.8	26.7	4.8	29.0	27.4	5.0
CrW21-29	x	0001A29F90	9325	29.8	25.3	5.7	28.3	25.3	4.0	27.2	26.8	4.2

SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	Note
Measured on 3/8/2023			Measured on 4/8/2023			Measured on 5/7/2023			Measured on 6/5/2023			
35.3	28.1	7.2	35.7	29.3	7.4	37.7	30.4	8.4	39.4	32.1	8.8	
32.8	27.0	5.7	32.8	28.2	5.8	34.8	29.1	6.6	36.0	30.1	7.4	
39.5	31.6	9.4	39.3	32.5	10.4	40.3	32.8	9.5	41.2	33.4	11.0	
37.3	30.6	8.5	37.7	31.8	8.0	39.3	32.7	8.8	40.8	33.6	10.0	
35.3	29.8	7.0	36.0	30.2	7.3	37.8	31.2	8.1	38.8	32.7	8.2	
34.7	28.2	6.9	34.8	28.4	7.1	36.9	30.3	7.0	38.3	31.6	8.7	
33.9	27.2	5.9	34.3	28.0	6.2	35.6	28.7	6.5	36.3	29.7	7.2	
36.5	28.8	8.7	36.2	29.9	6.9	37.7	30.1	7.8	38.7	32.3	8.3	
35.4	28.5	7.6	35.8	30.2	7.7	37.6	30.5	8.8	38.7	32.1	8.7	
30.0	25.5	3.0	31.6	26.7	3.2	33.0	27.9	3.7	34.1	28.9	4.7	
31.4	26.7	3.2	31.0	27.6	3.5	32.7	28.8	3.7	33.8	28.9	4.0	
32.8	27.4	5.8	33.8	28.5	6.3	34.4	29.4	6.6	35.7	30.1	7.3	
33.7	27.0	6.1	34.3	28.8	6.8	35.2	29.7	6.7	35.3	30.6	7.2	
30.6	25.7	3.0	31.2	26.5	3.4	32.4	27.8	3.9	33.3	28.7	4.3	
30.3	26.0	4.8	30.5	26.8	5.3	31.6	27.4	5.3	32.2	28.7	5.4	
34.6	28.2	6.6	35.2	29.2	7.0	36.3	30.3	7.0	37.4	30.8	8.4	
32.0	26.2	5.4	32.2	26.9	5.3	33.5	27.8	6.1	34.4	28.8	6.5	
33.9	27.8	6.7	34.4	28.0	6.8	35.8	29.0	7.5	36.1	30.9	7.9	
34.3	30.0	6.6	33.7	30.3	6.5	34.8	30.6	7.1	36.0	32.2	7.4	Slightly deformed carapace
34.6	28.6	6.8	35.0	29.5	7.1	36.7	30.4	7.9	37.0	31.6	8.8	
34.6	27.9	6.3	34.3	28.8	6.8	35.4	29.8	7.4	36.6	30.0	8.0	
34.6	28.4	6.0	35.3	29.1	7.1	36.4	30.0	7.8	37.3	30.8	8.4	
33.0	28.6	6.3	33.7	30.6	6.4	34.8	30.6	7.0	35.6	30.4	7.7	
30.3	28.5	6.2	30.8	30.3	6.3	31.6	29.8	6.5	34.3	30.3	7.2	
31.8	26.4	5.4	32.3	27.2	5.7	33.3	28.1	5.9	34.0	29.0	6.4	
30.8	27.8	5.8	30.8	28.4	5.8	31.6	29.1	5.7	33.3	29.8	6.3	Slightly deformed carapace
34.2	28.9	6.0	34.8	28.8	7.3	35.4	29.1	6.9	35.8	29.5	7.1	An individual with a transmitter attached for testing.
29.2	27.3	4.8	29.0	27.8	5.3	29.3	28.2	5.0	30.0	28.6	5.0	Carapace deformed
27.7	27.2	4.5	27.5	27.7	4.6	28.3	28.3	4.0	28.0	28.8	5.4	Carapace deformed

TURTLE #	SAT TAG Serial Number	ARGOS PTT Id	FLIPPER Metal Tag
1	23U0955	243178	5325
2	23U0960	243179	5374
3	23U0964	243180	5370
4	23U0965	243181	5371
5	23U0966	243182	5360
6	23U0967	243183	5358
7	23U0968	243184	5373
8	23U0969	243185	5343
9	23U1011	243186	5342
10	23U1012	243187	5346
11	23U1013	243188	5337
12	23U1014	243189	5303
13	23U1015	243190	5341
14	23U1016	243191	5345
15	23U1017	243192	5364
16	23U1018	243193	5347
17	23U1019	243194	5336
18	23U1020	243195	5375
19	23U1021	243196	5312
20	23U1022	243197	5359
21	23U1023	243198	5363
22	23U1024	243199	5368
23	23U1025	243200	5344
24	23U1026	243201	5365
25	23U1027	243202	5340
26	23U1028	243203	
27	23U1029	243204	

ALL CORRECTED AS PER MORI-SAN TO GHB 6-29-2023

KOCHI-PROF. SAITO

PAGE 179 GHB

TURTLE #	Turtle Name	SCL (cm)	turtle No./metal tag/PIT tag
1	Satsuki	40.4	#1/5325/00013C598A
2	Ka Lā 'Ula	37.4	#2/5374/0001BC07EB
3	Kumeyaay	39.8	#3/5370/0001336970
4	Antonio	34.9	#4/5371/0001DA5E7C
5	Sumire	39.2	#5/5360/0001324346
6	Azami	42.1	#6/5358/0001334416
7	Kai Malino	39.9	#7/5373/0001BBF972
8	Luiseño	33.2	#8/5343/0001339F06
9	Bety	36.7	#9/5342/0001335566
10	Nadesiko	38.2	#10/5346/000133B533
11	Pua-Sakura	34.1	#11/5337/000133050A
12	Akamai	37.4	#12/5303/0001329E98
13	Juaneño	35.0	#13/5341/0001323FD3
14	Victor	38.8	#14/5345/0001DB6005
15	Sazanka	35.0	#15/5364/00013265A4
16	Ajisai	36.5	#16/5347/0001BC0968
17	Hau'oli	35.8	#17/5336/0001334BB0
18	Gabrieliño-Tongva	41.6	#18/5375/000133EF35
19	Marisel	35.9	#19/5312/000132E881
20	Tsubaki	39.8	#20/5359/00013AA23F
21	Ayame	36.9	#21/5363/00014356AB
22	Lali	37.0	#22/5368/00013293F4
23	Chumash	37.7	#23/5344/00013225CA
24	Chuy	35.2	#24/5365/0001325205
25	Asagao	38.3	#25/5340/000133F18B

TROWAN IN Right HIND FLIPPER

the Sea of Japan. 2011

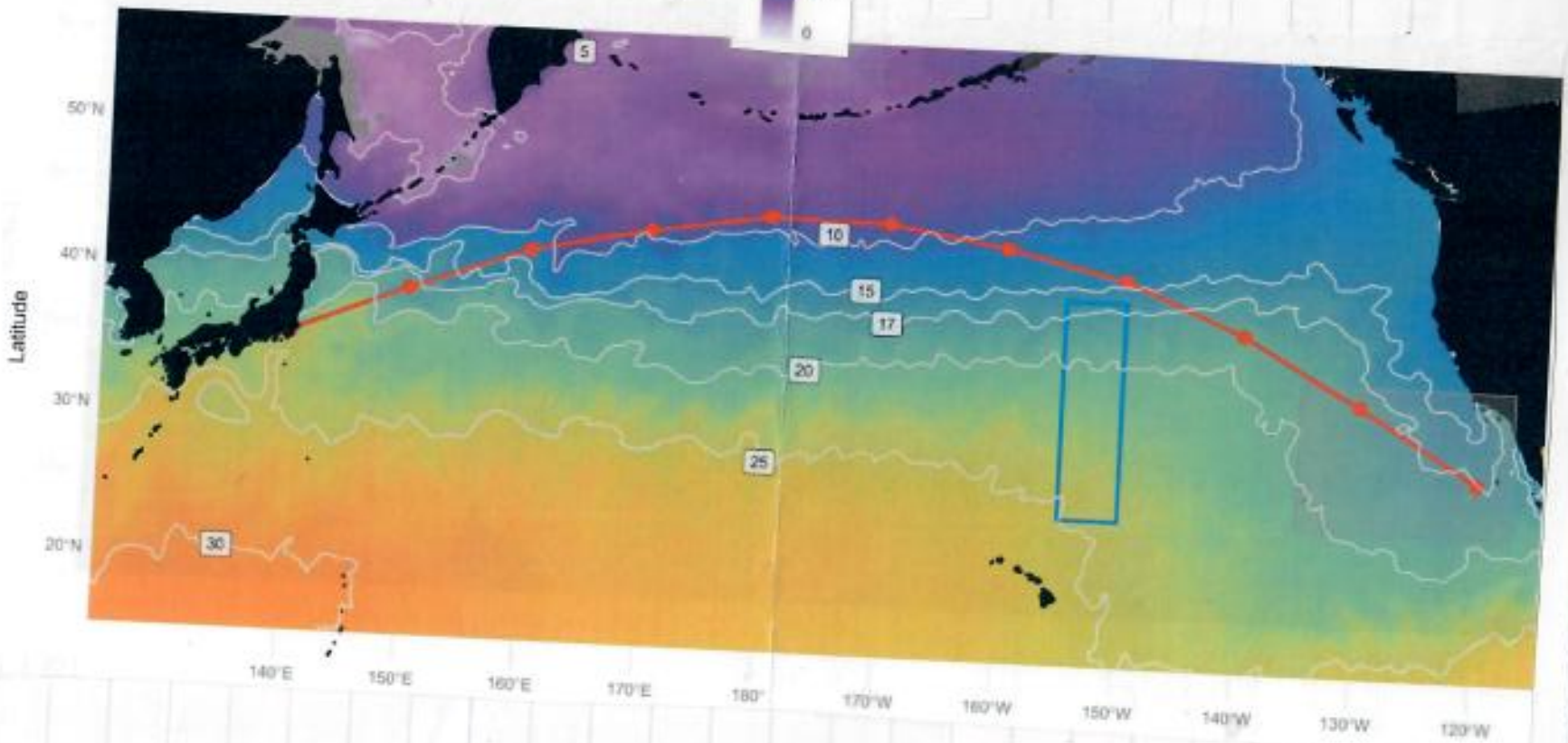
An extremely valuable recovery of one of these satellite tagged loggerheads was made after being accidentally captured in a Salmon fishing net near Hokkaido. This turtle was returned alive to the PNPA under the professional coordination of PNPA Director Makoto and his staff. The importance of this recovery is that growth rate was able to be determined for the 3.5 months in the wild. This is the first such recovery for meaningful growth rate determination during our many years of collaborative research with Japan. I am pleased to report that the turtle did indeed grow, demonstrating that adaptation to the wild had started, after being reared its entire life 2.5 years in captivity. At the time of release the turtle weighed 7.2 kg, and the carapace measured 34.9 cm. When recaptured the turtle weighed 8.4 kg, and the carapace measured 36.1 cm.

For those of you that may be interested in journal publications of our past collaborative partnership research (Japan/Hawaii) on the pelagic ecology of Japanese loggerheads, I will shortly send you pdf's of these papers. Happy Holidays, George Balazs

3.5 MONTHS
1.2 Kg increase
1.2 cm SCL INCREASE

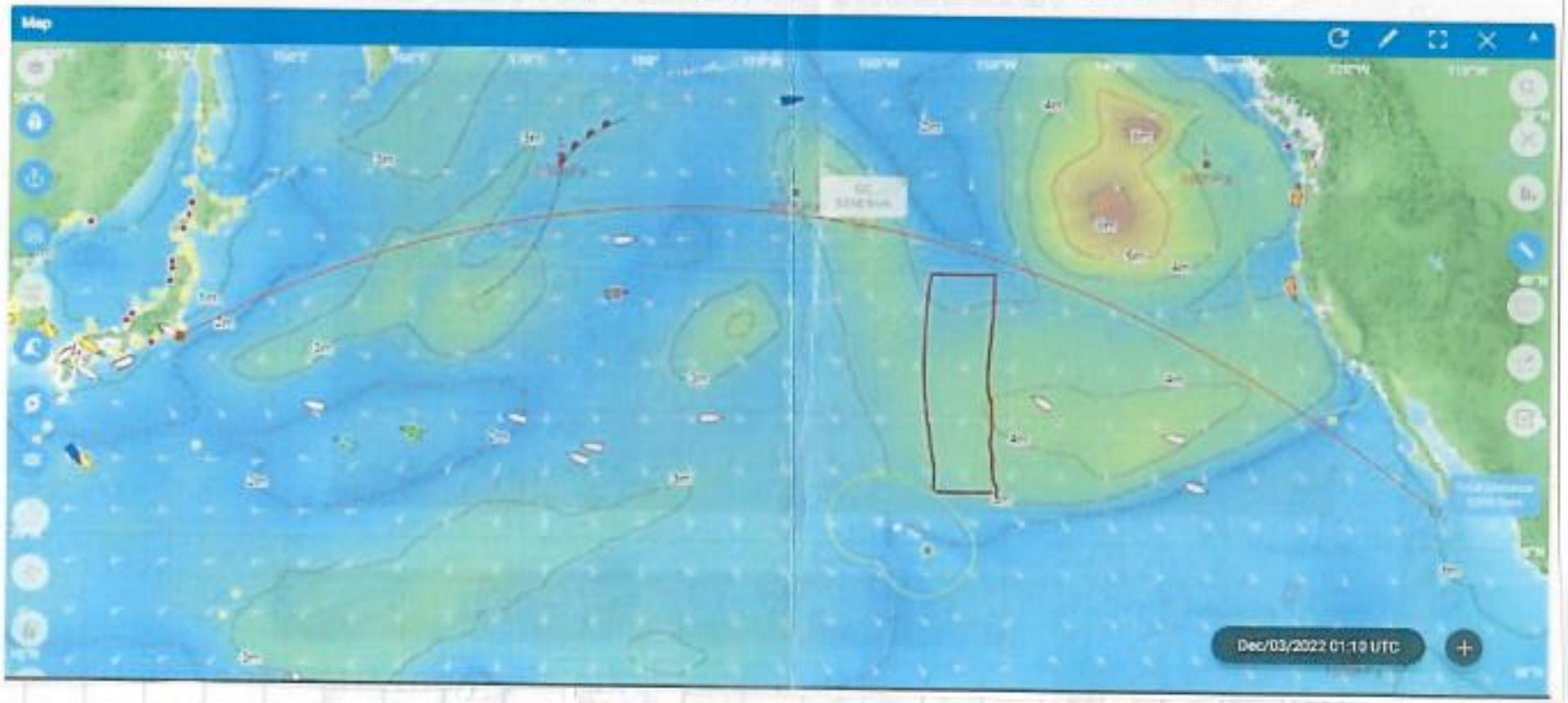
Monthly SST with Contour Lines

June 2021 SST



MOL Shipping Route from Kurita-san

Anticipated route for March 2023. Original map provided by Kurita-san (Dec 2022)



Photos to Print

7916 7896 7906
7901 7913 7920 7904

N=7 Canon - 5 (7953), 3 (7950), 7 (7947), 6 (7918),

7898 7895 7892

4 (7915), 2 (7912), 1 (7909),

+ PRE-CARAPACE Number Photos
+ BULGE Right side of head

MOTO6 - IN WATER COMPLETED + HEAD + BASKETS
N=19 14, 15, 9, 11, 13, 16, 8, 12, 10, 1, 5, 2, 6, 3, 20, 4, 7, 24, 17,

MOTO6 - DRY IN BASKETS COMPLETE
N=9 25, 24, 23, 22, 21, 20, 19, 18, 17,

N=9 16, 14, 13, 12, 10, 9, 8, 15, 11

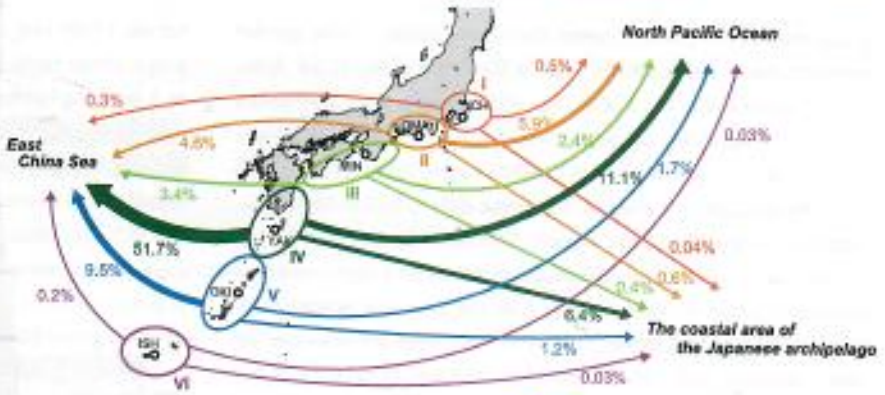
189

Latitudinal cline in the foraging dichotomy of loggerhead sea turtles reveals the importance of East China Sea for priority conservation

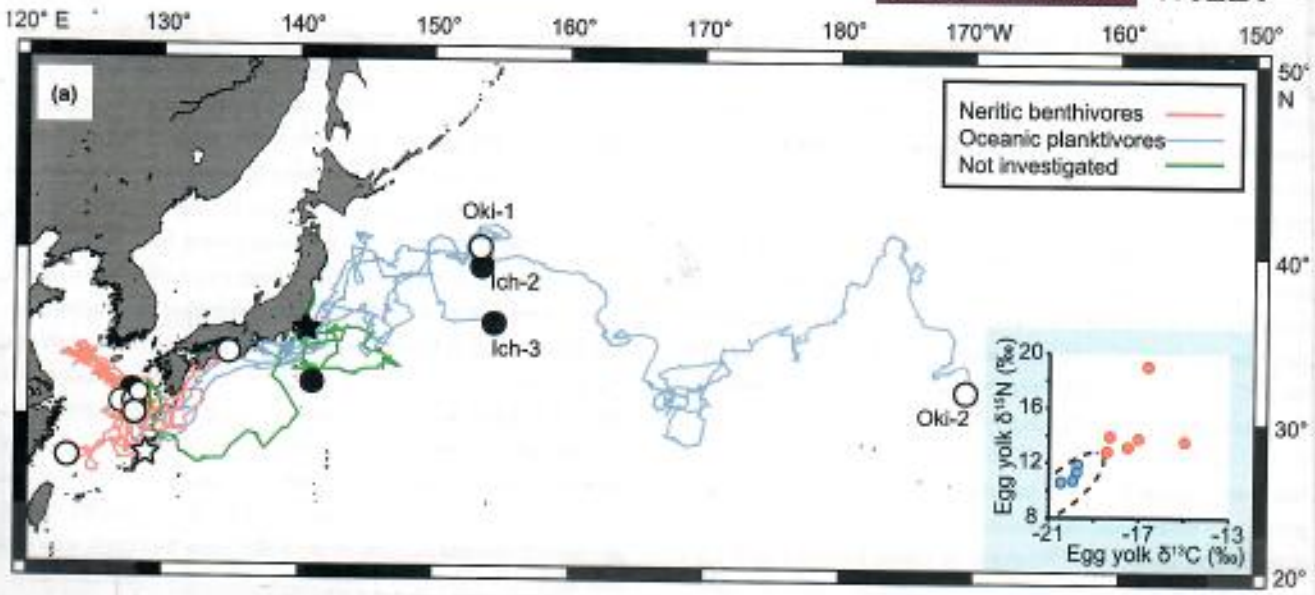
2023

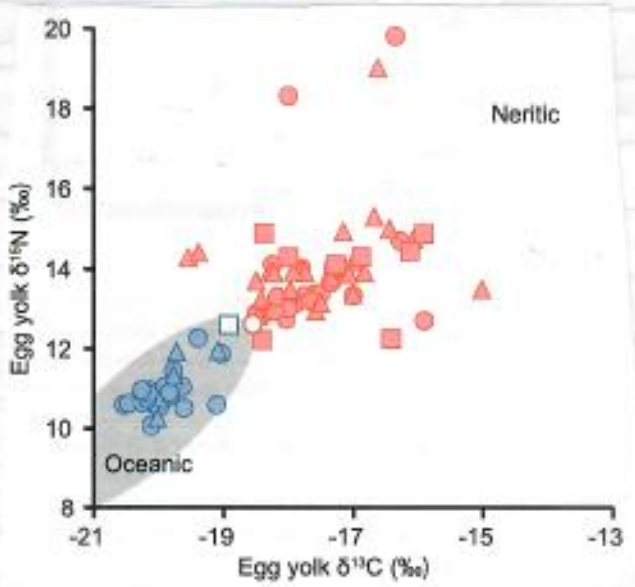
Junichi Okuyama[1] | Akemi Watabe[2] | Shunichi Takuma[2] | Kentaro Tanaka[3] | Kotaro Shirai[3] | Naoko Murakami-Sugihara[3] | Mamiko Arita[4] | Kento Fujita[5] | Hideaki Nishizawa[5] | Tomoko Narazaki[3,6] | Yoshiya Yamashita[7] | Kazunari Kameda[8]

Diversity and Distributions —WILEY— 7



4.2 | Latitudinal cline in the proportion of foraging dichotomy


120° E
130°
140°
150°
160°
170°
180°
170°W
160°
150°
50° N
40°
30°
20°
(a)
Neritic benthivores
Oceanic planktivores
Not investigated
Oki-1
Ich-2
Ich-3
Oki-2
Egg yolk δ15N (‰)
Egg yolk δ13C (‰)


Neritic
Oceanic
Egg yolk δ15N (‰)
Egg yolk δ13C (‰)

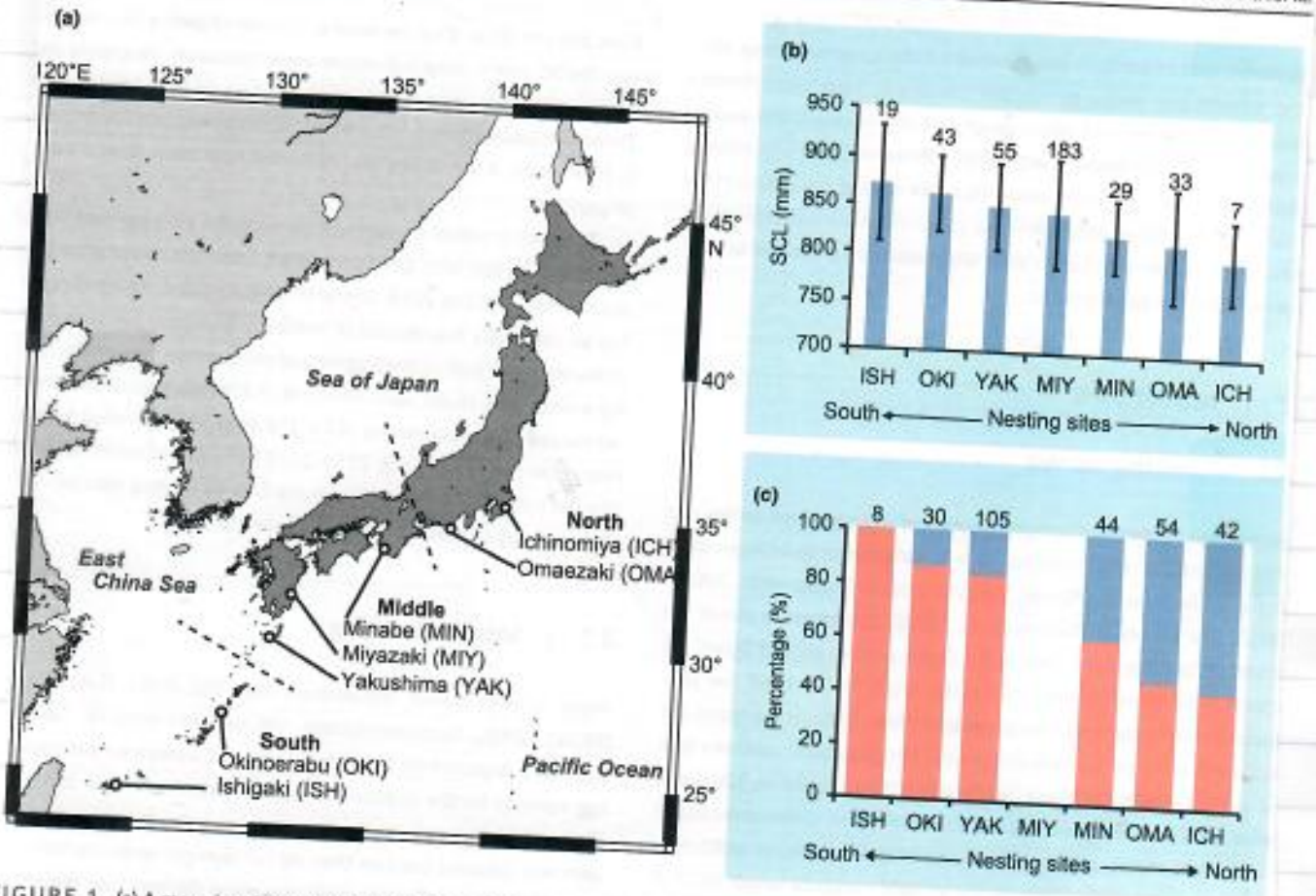
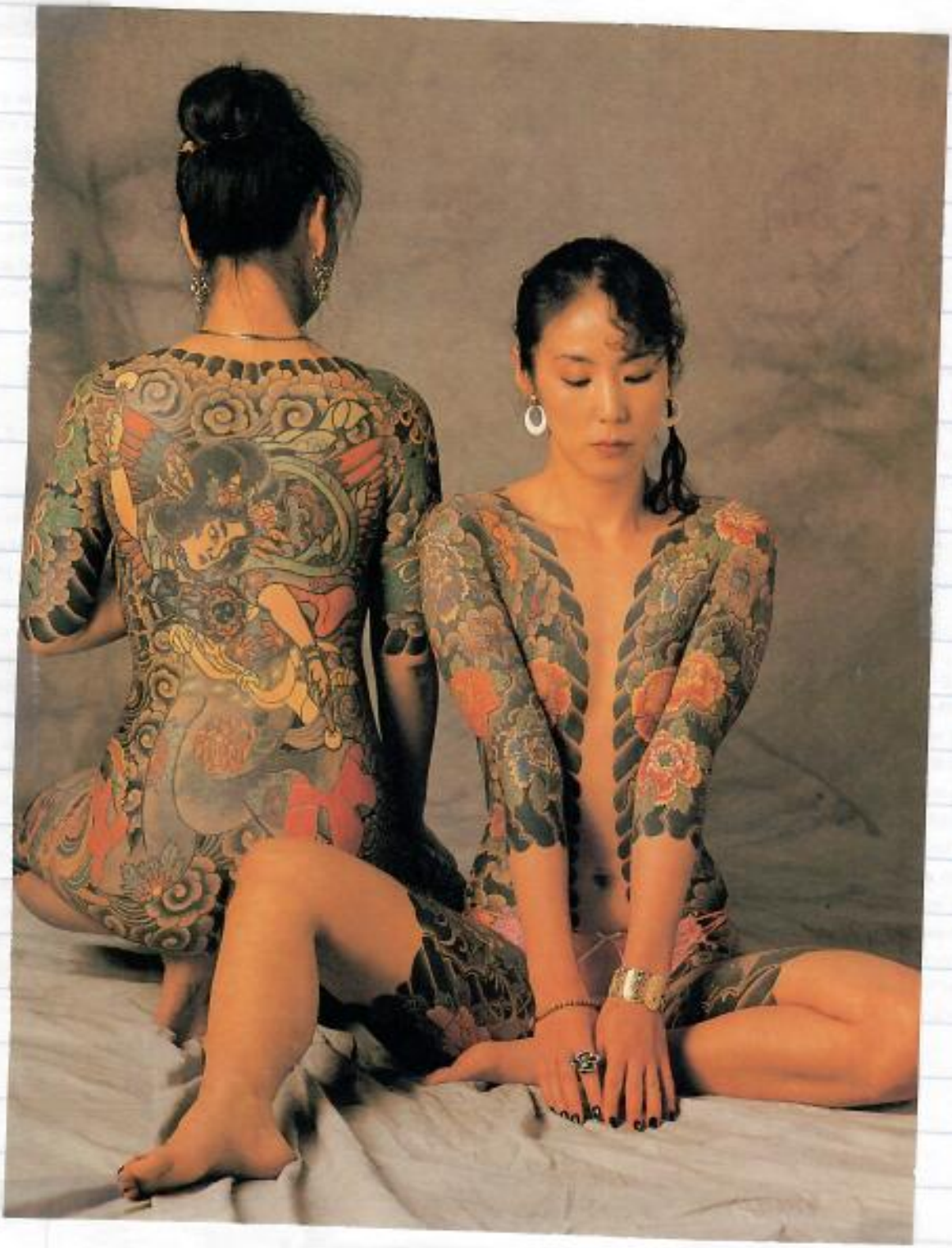
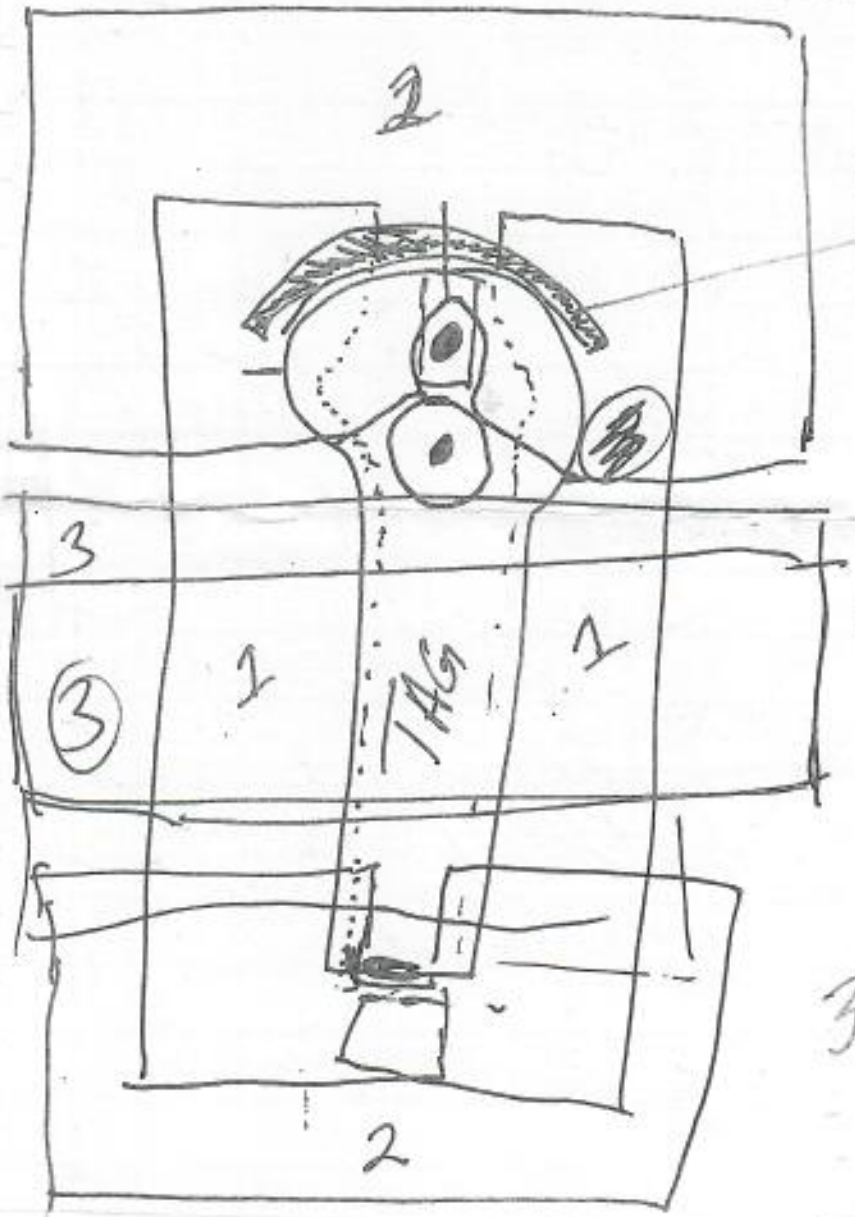


FIGURE 1 (a) A map showing the nesting locations of loggerhead turtles in Japan where surveys were conducted either in this study or in previous studies. Dashed lines represent the segments of nesting areas between north, middle and south. (b) A comparison of the straight carapace length (SCL) of nesting loggerhead turtles among the nesting sites. Vertical bars represent the standard deviations. The numbers above the columns represent the sample size for each site. (c) A comparison of the proportion of foraging types of nesting loggerhead turtles among the nesting sites. Red represents neritic foraging benthivores, while blue represents oceanic planktivores. Note that the proportion of foraging types in Ichinomiya (ICH) was estimated from the stable isotope ratios of egg yolk for all nests made during the research period and clutch frequency of nesting season of oceanic and neritic females (see Methods)



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

BY MARC RICE



Carbon Fiber bumper.

Make Side Pieces (#1) wider

3 LAYERS TOTAL

Model	Tracking	Sensors	Sensor Data Archive	Transmitted Data Products						Life (days)	L x W x H (mm)	Frontal Area (mm²)	Weight (g)
				Time Series	Dive Behavior	Haulout Behavior	Temperature		Mortality				
							Histos	Profiles					
SPOT-287 	Argos	Temp				✓	✓			543	70 x 41 x 23	850	72
SPOT-376 	Argos	Temp				✓	✓			914	99 x 55 x 21	1480	152
SPOT-387 	Argos	Temp				✓	✓			171	59 x 29 x 23	537	39
SPOT-395 	Argos	Temp				✓	✓			740	75 x 40 x 19	868	86
SPLASH10-F-323 	Fastloc, Argos	Depth, Temp, Light	✓	✓	✓	✓	✓	✓		240	226 x 71 x 76	NA	185
SPLASH10-F-344 	Fastloc, Argos	Depth, Temp, Optional Light	✓	✓	✓	✓	✓	✓		485	86 x 86 x 28	2430	231

WILDLIFE
COMPUTERS

8310 154th Ave NE, Suite 150
Redmond, WA 98052
+1 (425) 881 3048
tags@wildlifecomputers.com
WildlifeComputers.com

12 June, 2023

To whom it may concern:

Regarding the products of our company listed below, we certify that they do not fall foul of the items subject to export control in Wassenaar Arrangement, nor are the subject to export control in any other country.

Model number of the transmitters to be attached on the sea turtles: SPOT-387A				
Serial No.				
23U0955	23U0960	23U0964	23U0965	23U0966
23U0967	23U0968	23U0969	23U1011	23U1012
23U1013	23U1014	23U1015	23U1016	23U1017
23U1018	23U1019	23U1020	23U1021	23U1022
23U1023	23U1024	23U1025	23U1026	23U1027
23U1028	23U1029			

Wildlife Computer Inc.
Chief Operating Officer Kevin Ng

YMATSUD909@gmail.com

Agenda for STRETCH 061223 6/12/2023 ZOOM 11AM. W/ASSENMAE

1) Travel, Tagging, and Ship Procedures
Tagging June 19-23 with George, Marc, Laura, Larry, Dana, Bianca and 2 students. Bianca and Larry will stay through the 28th to help load turtles on the ship, will take photos as allowed and wave off the ship. UPDATING DAILY

Peter proposal TO ALBERTO?

2) Update on genetic samples for Peter Dutton possible project- No Action, but blood samples already taken and frozen? ALBERTO

3) Release planned for 17C waters along the planned ship route. Right now, 140W is good and 145W is close. Might 150W be close by the end of the first week of July? Input from Dana and Jeff P needed. We need clear unequivocal advice for Mori-San and Yamaguchi-San where to release the turtles. LBC proposal was to shoot for the 145-140 window as weather allows. We will have daily internet contact for only 3 hours and a sat phone on board to consult. We also need to prepare in case the shipper decides to change routes on departure or underway. Or we simply can't reach Mori-San.

4) Back-up plan for possible rough seas in preferred release area- None possible. We assume will be releasing from the lower (9m) sea door and are preparing for that. PRACTICE

5) Naming of turtles- We have 10 names from Japan, 5 from Hawaii, and 5 from Mexico. The 5 US names are not confirmed. Who will take responsibility of attaching names to tag numbers so we can label turtles properly on the website? 5 NAMES ALBERTO - Resend IN DATA ok Alternate names

6) Decision needed now on source of Cohort 3 Turtles- PNPA Captive Bred or Kochi Beach as per Cohorts 1 & 2. LBC proposal is that we keep everything consistent that we can including source of turtles, rearing and handling procedures, release location from year to year so years are as comparable as possible.

7) IT LOOKS LIKE WE ARE HEADING INTO A STRONG EL NINO THE FIRST YEAR OF STRETCH! So, this is not a practice year, but a GO year! Cali already sent us the first citing of a loggerhead in the Southern California Bight. Our prediction based on the TCH is that we should see our cohort of tagged turtles head for Mexico/California!

So, let's be sure we are monitoring for loggerheads in SoCal and prepared to get stable isotope data nailed down. Are they from Mexico, or the CNP? We should also be sure we have access to strandings to collect humeri for skeletochronology and stable isotopes over the next few years. We may not see any of our experimental turtles show up in these collections, but we need to know what the wild loggerheads are doing. If we need to find a student or some funding to help with this, let's talk. We simply can't miss this opportunity!

Yoshi

"control what we can control, everything else is out of control"

Table 2. *Caretta caretta*. Percent occurrence of major prey items in turtle stomachs from the Baja California Peninsula (BCP, N = 89 stomachs) and the Central North Pacific (CNP, N = 52; data from Parker et al. 2005). Energetic values (E, in kJ g^{-1} dry weight) were obtained from the following sources: [1]Castro-González et al. (1998); [2]Castro-González et al. (1995); [3]Chilton & Bull (1986); [4]Votier et al. (2004); [5]Szaniawska & Wolowicz (1986). Mean energetic values were calculated from all diet items occurring in >15% of stomachs

Prey	CNP oceanic	E (kJ g^{-1})	BCP neritic	E (kJ g^{-1})
Fish	7.7		85.2	20.1[1]
Decapods	55.8	16.2[2]	31.8	16.2[2]
Cephalopods	21.2	20.7[1]	1.1	
Pelagic gastropods	75.0	15.2[3]	0.0	
Barnacles (*Lepas* spp.)	51.9	1.9[4]	0.0	
Anthropogenic debris	34.6	0.0	0.0	
Scyphozoa (*Velella velella*)	25.0	2.9[1]	0.0	
Fish eggs	25.0	24[1]	0.0	
Pyrosoma	21.0	4.9[1]	0.0	
Amphipods	46.2	15.1[5]	0.0	
Mean prey quality (kJ^{-1})		11.2		18.2

By Nofi

6/5/2023 Measurements

	SCL	kg	SCL	kg
1	*39.3	(9.8)	*37.4	(8.3)
	36.0	(7.4)	34.4	(6.3)
1	*41.1	(11.0)	36.1	(7.9)
1	*40.6	(10.0)	*37.9	(8.6)
1	*38.8	(9.2)	*36.6	(8.0)
1	*38.0	(8.7)	*37.5	(8.4)
	36.3	(7.2)	35.6	(7.7)
1	*39.1	(8.5)		
	*38.3	(9.7)	36.1	(7.2)
	34.1	(6.7)	34.0	(6.4)
	33.9	(6.9)	35.9	Mock (7.1)
	35.2	(7.1)		
	36.0	(7.2)		
	33.3	(6.4)		
Smallest	*32.2	(5.4)		

kg = 197.1 kg = 433.6 lbs

X = 913.7 ÷ 25 = 36.5 cm

32.2 - 41.1 cm Range

X = 197.1 ÷ 7.9 kg (17 lbs)

5.4 - 11.0 kg Range

10 Larger than Mean of 36.5 SCL

Largest 7 38.0 - 41.1 cm

199

Local ID	Release	Tissue PIT Tag ID (Application date)	Internal Tag No. (Left forefoot)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)
		Installed on 12/5/2022		Measured on 12/5/2022			Measured on 1/8/2023			Measured on 2/5/2023			Measured on 3/8/2023		
CrW21-01	O	1/0001A7D08A	5525	31.8	25.6	5.6	33.3	26.8	6.4	34.8	27.8	6.0	35.3	28.2	7.2
CrW21-02	O	0001A10E40	5363	29.4	24.8	4.6	30.4	25.8	5.0	31.8	26.8	5.2	31.3	27.0	5.7
CrW21-03	O	0001A9A01A	5400	36.9	30.0	8.8	38.8	31.2	10.0	39.3	31.8	8.9	39.5	31.6	9.4
CrW21-04	O	0001B3F7F9	5479	33.5	28.1	6.7	34.9	29.2	7.7	36.3	30.5	7.9	37.3	30.6	8.5
CrW21-05	O	0001BF7E72	5575	31.1	26.1	5.3	32.6	27.3	6.0	34.3	28.6	6.4	35.3	28.8	6.8
CrW21-06	O	0001A3A846	5360	29.8	25.8	5.4	32.4	27.1	6.1	33.6	28.3	6.6	34.7	28.75	6.8
CrW21-07	O	0001B02798	5479	30.5	25.2	4.7	31.8	26.3	5.5	33.3	27.1	5.7	33.8	27.3	5.9
CrW21-08	O	0001B3E870	5378	31.4	26.2	5.2	33.1	27.5	6.0	34.4	28.7	6.5	35.5	28.9	6.7
CrW21-09	O	0001A9A21F	5359	31.4	26.8	5.8	33.0	27.8	6.8	34.4	29.3	7.3	35.4	28.5	7.6
CrW21-10	O	0001B3A8A4	5364	28.6	24.0	4.2	29.7	25.0	4.6	30.4	25.7	4.8	31.0	25.5	5.0
CrW21-11	O	0001A4B77C	5371	28.0	24.9	4.1	29.5	25.9	4.7	30.7	26.1	5.0	31.4	26.7	5.2
CrW21-12	O	0001B1E8E1	5312	32.0	25.4	4.9	33.1	26.5	5.5	33.1	27.0	5.8	33.9	27.4	5.9
CrW21-13	O	0001B3A068	5340	31.4	28.6	6.4	32.6	27.7	5.9	33.0	28.0	5.7	33.7	27.9	6.1
CrW21-14	O	0001B9D92A	5367	28.4	24.0	4.2	29.4	25.1	4.7	30.3	25.6	4.6	30.9	25.7	5.0
CrW21-15	O	0001B3BF08	5369	27.8	24.4	4.0	28.9	25.2	4.6	29.7	25.9	4.5	30.3	26.0	4.8
CrW21-16	O	0001B3B203	5346	31.4	26.1	5.5	32.8	27.1	6.2	33.8	27.8	6.2	34.8	28.2	6.6
CrW21-17	O	0001B3BF08	5341	29.4	24.7	4.4	30.4	25.8	5.0	31.5	26.5	5.2	32.0	26.2	5.4
CrW21-18	O	0001A4719F	5364	30.9	25.2	5.1	32.3	26.8	5.9	33.3	27.3	6.0	33.8	27.8	6.2
CrW21-19	x	0001B2E3D7	5356	31.8	28.2	5.7	33.3	29.3	6.4	34.0	30.4	6.8	34.3	30.4	6.8
CrW21-20	O	0001B86001	5345	31.1	26.5	5.4	32.8	27.3	6.2	33.8	28.2	6.4	34.8	28.6	6.8
CrW21-21	O	0001B8AF3B	5369	30.1	25.8	5.0	31.8	26.8	5.8	32.7	27.5	6.0	33.8	27.8	6.5
CrW21-22	O	0001B3F2B8	5340	31.8	26.1	5.7	32.7	27.1	6.3	33.8	28.0	6.7	34.6	28.4	6.9
CrW21-23	O	0001B0C8B8	5347	30.0	25.7	5.1	31.3	26.7	5.7	32.7	27.5	5.8	33.0	28.6	6.3
CrW21-24	O	0001B3BF0	5368	31.3	25.5	5.1	32.0	27.7	5.9	33.3	28.2	5.8	33.2	28.5	6.2
CrW21-25	O	0001B2E2D5	5368	29.1	24.9	4.4	30.5	25.8	5.0	31.3	26.4	5.0	31.8	26.0	5.4
CrW21-26	x	0001B2E4A0	5339	28.8	23.7	4.8	29.0	26.7	5.5	30.4	27.0	5.3	30.3	27.5	5.6
CrW21-27	O	0001B4B8B0	5316	30.0	25.0	4.8	32.2	26.7	5.0	33.5	27.8	6.4	34.2	28.3	6.0
CrW21-28	x	0001B82707	5314	28.3	26.3	4.7	28.6	28.7	4.9	29.0	27.4	5.0	28.2	27.3	4.9
CrW21-29	x	0001B29A88	5313	25.8	25.1	5.7	28.5	28.8	4.0	27.2	26.5	4.7	27.7	27.2	4.5

SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	SCL (cm)	SCW (cm)	BW (kg)	Note
Measured on 6/4/2023			Measured on 6/7/2023			Measured on 8/5/2023			
35.7	28.5	7.4	37.7	32.4	8.4	38.8	32.1	8.8	
32.8	28.2	5.8	34.6	28.1	6.4	36.0	30.1	7.4	
39.8	32.1	10.4	40.0	32.3	9.3	41.1	33.4	11.3	
37.7	31.5	8.6	38.8	32.7	8.8	40.8	33.8	10.0	
36.0	30.2	7.5	37.8	31.2	8.1	38.8	32.7	8.3	
34.8	29.4	7.1	36.9	30.3	7.9	38.0	31.8	8.7	
34.3	28.0	6.2	35.6	28.7	6.5	36.3	29.7	7.1	
36.2	29.8	8.9	37.7	31.1	7.8	39.1	31.8	8.3	
35.8	30.2	7.7	37.6	31.5	8.6	38.8	31.9	8.7	
31.6	26.7	5.2	33.0	27.5	5.7	34.0	28.8	6.7	
31.9	27.8	5.5	32.7	28.8	5.7	33.8	29.3	6.9	
33.3	28.5	6.5	34.4	29.4	6.9	35.2	30.1	7.1	
34.1	28.8	6.3	35.2	29.7	6.7	36.0	30.8	7.2	
31.2	26.9	5.6	32.4	27.8	5.9	33.3	28.1	6.4	
33.5	26.8	5.5	31.8	27.4	5.5	32.2	28.7	6.4	
35.1	29.2	7.0	36.4	30.0	7.5	37.4	30.8	8.9	
32.2	26.9	5.5	33.5	27.8	6.1	34.4	28.8	6.5	
33.4	28.0	6.8	35.8	29.4	7.5	36.1	30.8	7.8	
33.7	31.2	6.9	34.8	31.8	7.1	35.7	31.7	7.4	Slightly deformed carapace
35.0	29.5	7.1	36.7	30.4	7.9	37.0	31.6	8.8	
34.2	28.8	6.8	35.4	29.8	7.4	36.0	31.0	8.0	
35.9	29.1	7.1	36.4	30.0	7.8	37.9	32.8	8.4	
33.7	28.6	6.4	34.8	29.8	7.0	35.6	30.4	7.7	
34.0	29.3	6.3	35.8	29.6	6.5	36.1	30.9	7.3	
32.8	27.3	5.7	33.8	28.3	5.8	34.0	29.0	6.4	
32.9	28.4	5.8	33.8	29.1	5.7	32.0	29.0	6.2	Slightly deformed carapace
34.8	28.0	7.3	35.4	29.1	6.9	35.9	28.9	7.1	An individual with a transmitter attached for testing
28.0	27.8	5.3	29.3	28.1	5.0	30.0	28.0	5.4	Carapace deformed
27.9	27.7	4.8	28.8	28.5	4.9	28.6	28.6	5.0	Carapace deformed

12/5-6/5 = SCL & 5.0 cm 2.6 kg
(6 MONTHS)

N=28
BOSO POINT 2011

STRETCH

Larry Chowder
Polovina
Seminoff
DANA N=10
GB
CALI
ALBERTO
BIANCA
RICE
PARKER
Kurita
MORI N=5
SAITO
NOAH
SECRETARY

on website
BOSO POINT
AS OF 8-9-23 N = 28

41315
52697
65433
88054
88068
24193
50152
52693
52694
53754
19595
22151
22168
22535
23002
40471

Photos
#266 - 293

65421
68330
68331
+9 = 28 TOTAL

8/8/23 11
68336
68335
57150
57147
53769
50146
42714
42711
203045

AT JAPAN EXPLORATIONS 2010-2023

MULTIPLICATION TABLE

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24

Quotation marks are used around the exact words someone spoke. Use with titles of songs, short stories, chapter titles, short plays, episodes of television programs, magazine articles, and poems.

Italics are used with the titles of books, movies, newspapers, television programs, magazines, and long plays. (In handwriting, use **underlining**.)

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Kochi University

100

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ADVICE FROM A TURTLE...

SWIM WITH THE CURRENT
BE A GOOD NAVIGATOR
STAY CALM UNDER PRESSURE
BE WELL TRAVELED
THINK LONG TERM
SPEND TIME AT THE BEACH.

Message from heaven...

This chapter is amazing!
I'll see you when you get
here...

Shandell Eames Brunson

June 7, 1976
January 25, 2022