

HPU-5
STRETCH +

Mead
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13-19 JANUARY
2026

COMPOSITION

100 sheets

2025-2026

GEORGE BVAZS[†] 1-800-688-8402

WIDE RULED



WILDLIFE
COMPUTERS




- P.I. MEET
- HPU 5TH;
STRETCH
SEA TURTLE
Workshop
9-10
OCTOBER
2025



"Mead® KONICHIWA"
MINASAN

SCHEDULE

DR. ITARU UCHIDA 1932-2024 92y.o.



	1	2	3	4	5	6	7	8
TIME								
<p>From: George Balazs <itsahonuworldinhawaii@hotmail.com> Sent: Saturday, July 12, 2025 5:34 PM To: George Balazs <itsahonuworldinhawaii@hotmail.com> Subject: S.T.R.E.T.C.H. 2.0</p> <p><u>Sea Turtle Research into the Ecology of Transpacific Caretta Habitats</u></p>								
WEDNESDAY	<p>Kanako Ota </p> <p>Staff Social Contribution Advancement Team Corporate Sustainability Division</p> <p>Mitsui O.S.K. Lines, Ltd. 1-1, Toranomon 2-Chome, Minato-ku, Tokyo 100-8688 Japan Mobile: (81-70)3873-1792 kanako.ota@molgroup.com</p> <p> </p> <p>TURTLE NET 2026</p> <p>TAKASHI KAMIO</p>							
THURSDAY								
FRIDAY								



"Mead® KONICHIWA"
MINASAN

SCHEDULE

DR. ITARU UCHIDA 1932-2024 92y.o.

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TIME								
From: George	 株式会社 船粉三井 〒105-8588 東京都港区虎ノ門1丁目1番1号 No.0470-3873-1792 kanakoro.ta@molgroup.com		 株式会社 加奈子 〒247-0297 千葉県船橋市中央1-1-1		itats			
Sent: Saturda								
To: George Ba								
Subject: S.T.R								
Sea Turtle R								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								

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NAGOYAMINATO.
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TAKASHI
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TURTLE
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2020



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COHORT

- 25 I GALAXY ACE 2023
- 28 II PERMANENT ACE 2024
- 28 III NEPTUNE ACE 2025



PORT OF NAGOYA
PUBLIC AQUARIUM



Sea Turtle Section

Matsumoto Tomomi

OVER

Nagoya Port Foundation
1-3 Minato-machi, Minatoku, Nagoya 455-0033 Japan
TEL +81-52-654-7080
FAX +81-52-654-7001
t-ogawa@nagoyaminato.or.jp

Hight and, in particular, coastal North Carolina may reveal much about the physical locations of mortality and the probability of stranding as a function of spatial location. Population biology and physical oceanography have, until recently, been scientific fields with little crossover. Hopefully, collaborative projects such as this

will continue in the future. Though qualitative, this research (a) provides a starting point for more robust analyses and (b) demonstrates that stranding research requires an understanding of ocean physics in addition to sources of mortality.

FOLLOWING REDWOOD LOGS, RUBBER DUCKS, AND DRIFT BOTTLES: TRANSOCEANIC DEVELOPMENTAL MIGRATIONS OF LOGGERHEAD TURTLES IN THE NORTH PACIFIC OCEAN

Wallace J. Nichols

Wildcoast, POB 324, Davisport, CA USA 95617

New technologies now allow us to answer some standing questions regarding the life history of Pacific loggerhead turtles. Mark and recapture data, combined with results from satellite telemetry, remote sensing, oceanography, and molecular genetic studies, provide a fundamental understanding of the distribution and movements of loggerhead turtles as they make a vast developmental migration around the Pacific Ocean.

Previous studies indicate that the majority of loggerhead turtles occurring along the coasts of California, USA, and the Baja California peninsula, Mexico, are immature and of Japanese origin. Their movements follow patterns that can be partially explained through comparisons with surface currents, primary productivity levels, and water temperatures.

Wild-captured and captive-raised loggerhead turtles were tracked along the west coast of the Baja California peninsula using satellite telemetry. These results combined with mark-recapture data, oceanography, diet analysis, and oceanographic patterns suggest a general pattern for the life history of loggerhead turtles utilizing the eastern Pacific Ocean.

Generalized Life History of North Pacific Loggerhead Turtles

1. North Pacific loggerhead turtles are born primarily on nesting beaches in southern Japan.
2. The strong Kuroshio Current, which runs from south to north along the east coast of Japan transports hatchlings and juvenile turtles into the North Pacific.
3. Over the course of two to six years, loggerhead turtles move from west to east, feeding along convergence and frontal zones (based on recent tag returns). Counter-current movement has been recorded during this pelagic developmental phase.
4. Drift bottles, satellite-linked buoys, surface current models, and debris have been used to document the surface current patterns in

the North Pacific. These flow patterns are similar to those of the developmental migrations of Pacific loggerhead turtles.

5. Loggerhead turtles are encountered along the coast of the California at a minimum SCL of 27 cm. Turtles larger than 85 cm are rare.

6. Along the Baja California coast loggerhead turtles feed primarily on pelagic red crabs (*Pleuroncodes plumosus*), which are extremely abundant nearshore during the spring and early summer months.

7. At maturity, loggerhead turtles begin a homing migration, returning to natal beaches in Japan, which may span an entire year. The homing migration crosses a region in the central Pacific known as the "garbage patch" where marine debris is known to accumulate. The trans-pacific track approximates a simulated, two stage track, using a constant swim speed of 29.5 cm/s and an initial heading of 170° (due west) and a secondary heading of 295°.

8. Mature loggerhead turtles appear to remain in the western Pacific, migrating annually between nesting beaches and feeding grounds in the South and East China Seas.

This synopsis emphasizes the importance of upwelling and convergence areas along the central Baja California coast and throughout the Pacific as pelagic feeding areas and migratory corridors for Pacific loggerhead turtles, underlining the importance of these regions to the recovery of Pacific loggerhead stocks. Loggerhead turtles utilize virtually the entire North Pacific Ocean during their lifetimes. Anthropogenic impacts and conservation efforts in one region will affect distant ecosystems. For example, the proposed fishery for pelagic red crabs along the Baja California coast may interfere with foraging loggerhead turtles, resulting in declines in loggerhead turtle numbers on western Pacific nesting beaches and reefs. Likewise, a reduction in mortality rates in Baja California may result in marked gains on Japanese fisheries. These connections emphasize the importance of international collaboration and communication among researchers.

Photos HPU ACEX RAMIREZ

STRETCH 2.0

Sea Turtle Research into the Ecology of Transpacific Caretta Habitats
Chelonia

HPU IT = BRODIE KINDER
ELIJAH MARTINEZ
PR - LIANNE

"AUSPICIOUS AIR AIRLINES"
1/20/26 JUNEYAO AIRLINE
HO 13307 855PM



PORT OF NAGOYA
PUBLIC AQUARIUM

7R-CLARKE

HO 13.9 ft
Port of Nagoya Aquarium
"Austrioides" 9/9 - Airline's



Delivery Order/Packing Slip

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 United States

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 Germantown, MD 20874
 United States

Tel No: 800-426-8157

Tel No: 800-426-8157

Order Summary

Order Date: 17-Dec-2025	Customer Order #: 144660061	Customer #: 691	Service Level: UPS 2nd Day Air
Ship Date: 17-Dec-2025	Delivery #: 88753722	No of Cartons: 1.00	Carrier: UPS
Pkt Ctn #: Q88753722	PO #: 63916225	Gross Weight (Lbs): 3.00	

Item #	Item Description	Lot Number	Expiration Date	Shipped Qty
69504	DNeasy Blood Tissue Kit (50)	58109014		2
Total Units				2

Special Insr (F):
 For Material Safety Data Sheets, see www.qiagen.com/safety

6

Meeting ZOOM PIS
 10/2/25 Thursday 1 PM
PSS 398461



- Send Zoom LINK. ✓
- BIOS ✓
- Program ✓

STRETCH ✓ 2.0

Oct 9 ✓
 Bring your
 Thumb /

• Hampton, S.A., E.S. Schemm, L.B. Crowder and D.P. Smay-Di-Domenico. 2022. Theorizing the relationship between climate change and digital connectivity with attention to environmental conditions through existing observations. *Frontiers in Marine Science*, section Global Change and the Future Ocean (submitted)

• Dong, X., Elizabeth, Larry B. Crowder, George H. Bassett, Jeffrey A. Sagarin, Alberto Abrego, Philippe Trépo, Catherine A. Lee-Fong, Laura Jim, Marnie K. Kline, Alexander M. Martinez-Garcia, Daniel M. Rucinski, Richard R. Rhee, Sara Garcia S. Santos, Koji Suguro, Julian Torres, Roger C. Yarnall, Y. Yarnall, Tomaszewicz, Noah Yamaguchi, Jeffrey J. Yarnall, Y. Yarnall, Y. Yarnall

- I. STRETCH Highlights: Looking Back at Accomplishments (George)
 - *STRETCH- A creative bold idea that became reality and has blossomed beyond expectation thanks to a Leader and his International Team.*
 - *Healthy vigorous little loggerheads obtained by Kochi University's Usa Laboratory expertly reared by the Port of Nagoya Public Aquarium.*
 - *Satellite tags with cutting-edge technology and reliability built by the very best company providing superior technical support.*
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- II. Brief recap of key analysis and outputs to date (Larry)
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 - *Briscoe D.K., L.B. Crowder, G.H. Balazs, J.A. Seminoff, A. Abreu, C.A. Lee Hing, M. Kurita, M. Mori, D.M. Parker, M.R. Rice, T. Saito, B.S. Santos, C.N. Turner Tomaszewicz, N. Yamaguchi and J.J. Polovina. 2025 Multi-decade northward shift of loggerhead sea turtle pelagic habitat as the eastern North Pacific Transition Zone becomes more oligotrophic. *Front. Mar. Sci.* 11:1513162. doi: 10.3389/fmars.2024.1513162.*
 - *Hampton, S.A., B.S. Santos, L.B. Crowder and D.K. Briscoe. 202-. Theorizing the increasing likelihood of intermittent thermal corridors with anomalous environmental conditions through existing observations. *Frontiers in Marine Science, section Global Change and the Future Ocean* (submitted).*
 - *Dana K. Briscoe, Larry B. Crowder, George H. Balazs, Jeffrey A. Seminoff, Alberto Abreu, Philippe Gaspar, Catherine A. Lee Hing, Laura Jim, Masanori Kurita, Masanori Mori, Yuki Oshima, Denise M. Parker, Marc R. Rice, Tomomi Saito, Bianca S. Santos, Koki Sugiura, Julien Temple-Boyer, Calandra N. Turner Tomaszewicz, Noah Yamaguchi, Jeffrey J. Polovina. "Promise or Peril in a*

Warming Ocean? An Emergent Pathway Leads North Pacific Loggerhead Sea Turtles into the northern California Current System" (In prep).

- *Others?*

III. Plans for current analysis by STRETCH team

- *Dana Briscoe/Jeff Polovina*
- *Alberto Abreu*
- *Cat Lee Hing*
- *Sydney Hampton*
- *Stephanie Caddell, "Protecting Juvenile Loggerheads: Evaluating bycatch risk in North Pacific foraging areas"*
- *Daviana Berkowitz*
- *Larry Crowder*
- *Others?*

IV. Fisheries management implications for STRETCH data.

- *New data are relevant to year-to-year variability in cohort movements due to variation in Nino conditions, marine heatwaves, and current patterns. This should allow us to model loggerhead habitats under climate variation and so inform on management challenges and responsibilities relative to risks (e.g. bycatch) in the open sea vs. in EEZs. Loggerheads likely respond to fixed and dynamic ocean features, but underlying governance maps are generally static. TURTLEWATCH provides seasonally dynamic protection. Under BBNJ, mobile marine protected areas can now be explored.*
- *This is relevant when talking about loggerheads in Baja and their interactions with artisanal longline and net fisheries. Understanding the timing, frequency, and location of entrance corridor(s) into Baja can shed light on where turtles might be most interacted with. If we can link this to ephemeral and lasting oceanographic features in the region, then we can shed light on the actual mechanisms (and maybe have predictive ability) for when/where turtles and Baja-based fisheries most overlap. Also, is it safe to assume that Baja turtles occurring west/outside of Gulf of Ulloa are at lower risk to fishery bycatch?*
- *The extended tracking for C2 has revealed a significant developmental habitat in the pelagic zone in front of Baja California. Could there be a measurable oceanographic feature that prevents turtles from entering the coastal habitats? (or what keeps them offshore). Cooler waters? Prey availability? Bathymetry? Frontal zones? Productivity? Currents? Would ARS movement (e.g. first passage*

time) analyses help address this question? From Jeff P: consider a paper on loggerhead use of pelagic and benthic habitat off Baja

- There could be a much greater number of turtles than was estimated from the Seminoff et al. 2014 evaluations using flight transects if loggerheads spend a significant amount of time in oceanic waters off Baja California
- Estimates of shipping and fishing interactions with juvenile loggerheads need to be updated to incorporate this crucial developmental habitat so that we can predict and mitigate the demographic impacts of the fishing activities involved.
- Adjusting the satellite tag programming that guarantees extended tracking is hugely important to adequately assess where and how long loggerhead juveniles remain in the pelagic habitat before entering coastal environments.

V. New opportunities: Tag programming to maximize transmission duration.

- Shall we plan to program a few turtles for maximum deployment duration? To help determine our strategy: (1) what is maximum expected attachment duration, (2) how well will the Kineis system perform? If we have some tags that, at least some days, transmit over continuous 24-hour periods then we will get the best possible assessment of the Kineis performance.
- Turtle health and impacts of tags on turtles.
- Initial evaluation of new mini-tags?

VI. When Does Stretch 1.0 End?

- Given the duration of transmissions, we could have Cohort IV turtles transmitting into 2028. Our current funding supports our last release in summer 2026, but analysis funding currently goes only through 2027. Who will the STRETCH team consist of then?
- What do we seek support for after STRETCH? Stretch 2.0 with Southern Hemisphere loggerheads?

L = 22

FRIDAY OCTOBER 10, 2025 Hawaii Standard Time at HPU's Aloha Tower Marketplace Campus-

730am Complimentary Morning Coffee, Tea, Juices and Pastries- Registration Check In, Free Parking Validation, Socializing, and Seating.

800-830am Opening Ceremonies-
L DAN ANNA L
L BRENDA
Hawaiian Blessings Ceremony and Welcoming Remarks by HPU Sponsors.

✓ Kurita, Balazs & Seminoff- Dedication of the HPU STRETCH Workshop to Dr. Itaru Uchida, Founding Director of the Magnificent Port of Nagoya Public Aquarium AND to Dr. Wallace J. Nichols, Champion of Baja's Japanese Loggerheads.

✓ 1 Crowder and Balazs- The Genesis and Evolution of Loggerhead STRETCH: What Sea Turtles Have to Teach Us About a Changing Ocean.

✓ 2 Jeffrey Polovina- Small Turtles in a Big Ocean: Insights from Satellite Tracking of Loggerhead Sea Turtles as They Navigate the Central North Pacific.

✓ 3 Dana Briscoe- Emerging Insights from the STRETCH Project: Juvenile North Pacific Loggerheads As Sentinels of Ocean Change.

4 Philippe Gaspar- The Active Dispersal Scenario of Juvenile North Pacific Loggerhead Turtles Revealed by Historical Satellite Tracking Data and Novel Operational Oceanography Products.

✓ 5 Masanori Mori and Masanori Kurita- Breeding and Raising Loggerhead Turtles at Port of Nagoya Public Aquarium.

✓ 6 Yamaguchi and Saito- The Features of Nesting Environment of the STRETCH Turtle Birth Beach.

Morning Break & Group Photos with Workshop Banner

7 Saito, Yamaguchi, and Sugiura- Loggerhead Turtle Nesting Trend on Kochi Beach from 2009 to 2024.

8 Sugiura, Yamaguchi and Saito- Migratory Routes and Responses to the Marine Environment of Female Loggerhead Turtles Visiting the Waters off Kochi Prefecture.

✓ 9 Tomoko Hamabata- Same Clutch, Different Journeys? A Research Proposal to Explore the Genetic Background of Movement Variability in Loggerhead Turtles.

✓ 10 Matthew Rutishauser- Wildlife Computers Inc: A Brief History, Current and Ongoing Projects, and Direct Involvement with STRETCH.

- 11 Thierry Work- Necropsy Findings of North Pacific Loggerheads.
 - 12 Robert Ahrens- Loggerheads at Loggerheads: Managing Turtle Interactions in Hawaii's Tuna Fishery.
- Group Discussions Questions & Answers**
- Lunch- On Your Own with Friends Old and New**
- 13 Laura Jim- Learning Through Turtles: Educational Opportunities with STRETCH.
 - 14 Marc Rice- Engaging The Public: Our Blog as a Tool for STRETCH Outreach.
 - 15 Jeffrey Seminoff- Loggerheads in the Eastern North Pacific: From Local Enigma to Conservation Flashpoint.
 - 16 Cali Turner Tomaszewicz- Demography and Habitat Use of Loggerheads along the North American West Coast: Insights from Skeletochronology and Stable Isotope Analysis.
 - 17 Alberto Abreu- What do STRETCH Loggerheads Tell Us About Their Recruitment into Mexican Habitats, and How can STRETCH Contribute to Loggerhead Conservation in Baja California?
 - 18 Denise Parker- Loggerhead Landscape, Landmark Frequented During Transpacific Travels.
 - 19 Bianca Silva Santos- Habitat Suitability and Transboundary Considerations of Loggerhead Sea Turtles in the Eastern North Pacific.

Group Discussions Questions & Answers & Closing Blessing

Estimated to Adjourn no later than 4pm.

Group Dinner, 5:30 PM **Old Spaghetti Factory at Aloha Tower Marketplace**
Campus of Hawaii Pacific University

OCT. 9, 2025

L-OTA L-Jeannie

March 5, 1976 ✓

49 YEARS AGO

16

Dr. Itaru Uchida, Director
Himeji City Aquarium
Tegarayama, Himeji City
670, Hyogo Pref., JAPAN

Dear Dr. Uchida:

I have received your letter of March 1 concerning your forthcoming visit to Hawaii. I would be very pleased to meet with you and discuss matters of common interest on sea turtle ecology and conservation. Please telephone me at 247-6631 or 946-1760 on the morning of March 29, so I will know you have arrived as planned. I will pick you up at your Waikiki Hotel on March 30 and take you to Coconut Island. If there is a change in travel plans, please write me as soon as possible.

I have enclosed several articles which you may find interesting.

Best regards and

Aloha,

GEORGE H. BALAZS
Jr. Marine Biologist

GHB:ec

Enclosures

STRETCH Workshop discussion ideas for Day 1 (9 October 2025)

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(24)

- I. STRETCH Highlights: Looking Back at Accomplishments (George)
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Stretch-related papers:

- *Early-Capistrán, M.M., N. Crane, L.B. Crowder, G. Garibay, J. Seminoff, and D. Johnston. 2024. Ethnobiological methods enhance our capacity to document*

STRETCHING
STRETCHING
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STRETCHING OF THE TIME!!

How Rare are H's!!
30 Locations

potential climate sentinels: A loggerhead sea turtle (Caretta caretta) case study. *Frontiers in Marine Science* 11:1407575, doi:10.3389/fmars.2024.1407575.
Hampton, S.A., B.S. Santos, L.B. Crowder and D.K. Briscoe. 202-. Theorizing the increasing likelihood of intermittent thermal corridors with anomalous environmental conditions through existing observations. *Frontiers in Marine Science*, section Global Change and the Future Ocean (submitted).

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III.

Plans for current analysis by STRETCH team (~10 min maximum)

- Dana Briscoe/Jeff Polovina
- Alberto Abreu — "Let's not lose track of them"
- Phillipe Gaspar — 25 satellites - 15 min
- Tomoko Hamabata — Laproscopie? call Benoit
- Cat Lee Hing ✓ *Ground Truth by Laproscopie so can estimate from Blood*
- Sydney Hampton, "Loggerhead Pathways: Linking Vertical & Horizontal Movements to Ocean Features"

one per DAY
now 1 per

Stephanie Caddell, "Protecting Juvenile Loggerheads: Evaluating bycatch risk in North Pacific foraging areas"

- Daviana Berkowitz
- Lamy Crowder
- Others? *7 years booked*
- what it is* *since July, 2015*
- Semi-off footprint* *— is what it is*

LOGGERHEADS OF THE
NORTH PACIFIC -
5TH ANNUAL HPU SEA TURTLE
WORKSHOP & STRETCH
INTERNATIONAL MID-POINT
TEAM MEETING



Photo by Ralph Pace



ALOHA TOWER MARKETPLACE
OCTOBER 10, 2025
MPR 3 & ZOOM

(26)

Resonance

~~MPR~~

How far it goes
MPR

N v e a l m o f e p l a i T t a l o m f e h e

More Kua
Key Decisions

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Mora / Kuei TA
Key Decisions

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Fisheries management implications for STRETCH data.

New data are relevant to year-to-year variability in cohort movements due to variation in Nino conditions, marine heatwaves, and current patterns. This should allow us to model loggerhead habitats under climate variation and so inform on management challenges and responsibilities relative to risks (e.g. bycatch) in the open sea vs. in EEZs. Loggerheads likely respond to fixed and dynamic ocean features, but underlying governance maps are generally static. TURTLEWATCH provides seasonally dynamic protection. Under BBNJ, mobile marine protected areas can now be explored.

125 times \rightarrow 25% KD ?

This is relevant when talking about loggerheads in Baja and their interactions with artisanal longline and net fisheries. Understanding the timing, frequency, and location of entrance corridor(s) into Baja can shed light on where turtles might be most interacted with. If we can link this to ephemeral and lasting oceanographic features in the region, then we can shed light on the actual mechanisms (and maybe have predictive ability) for when/where turtles and Baja-based fisheries most

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Reserve pattern

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overlap. Also, is it safe to assume that Baja turtles occurring west/outside of Gulf of Ulloa are at lower risk to fishery bycatch?

- The extended tracking for C2 has revealed a significant developmental habitat in the pelagic zone to the west of Baja California. Could there be a measurable oceanographic feature that prevents turtles from entering the coastal habitats? (or what keeps them offshore). Cooler waters? Prey availability? Bathymetry? Frontal zones? Productivity? Currents? Would ARS movement (e.g. first passage time) analyses help address this question? From Jeff P: consider a paper on loggerhead use of pelagic and benthic habitat off Baja
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- Adjusting the satellite tag programming that guarantees extended tracking is hugely important to adequately assess where and how long loggerhead juveniles remain in the pelagic habitat before entering coastal environments.

Current ~90 STRANDINGS
& year

V.

New opportunities: Tag programming to maximize transmission duration.

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- Turtle health and impacts of tags on turtles.
- Initial evaluation of new mini-tags?

"It's A HARD ocean - LC"

VI.

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- *What do we seek support for after STRETCH? Stretch 2.0 with Southern Hemisphere loggerheads?*

5:30 Working Group Dinner at Old Spaghetti Factory near HPU



**LOGGERHEADS OF THE
NORTH PACIFIC -
5TH ANNUAL HPU SEA TURTLE
WORKSHOP & STRETCH
INTERNATIONAL MID-POINT
TEAM MEETING**

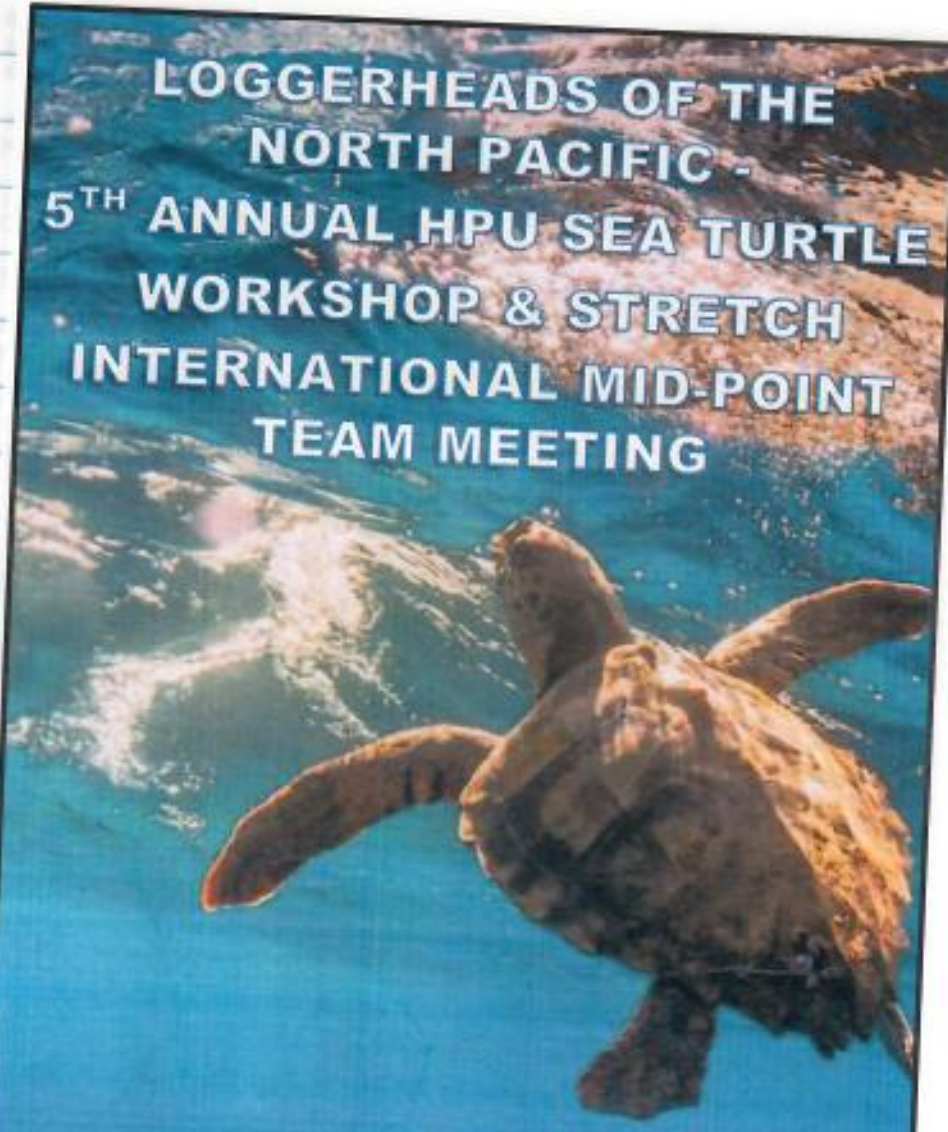


Photo by Ralph Pace



**ALOHA TOWER MARKETPLACE
OCTOBER 10, 2025
MPR 3 & ZOOM**



A DAY OF EXPLORING THE AMAZING TRANSPACIFIC WORLD OF LOGGERHEAD TURTLES IN A CHANGING OCEAN FROM JAPAN TO NORTH AMERICA AND RETURN

730am Complimentary Coffee, Tea, and Pastries, Registration Check-In, Free Parking Validation, Socializing and Seating.

800-830am Opening Ceremonies (Start of Zoom)

Ceremonial Hawaiian Blessing by Kahu Hanal Danny Akaka, Jr. and Anna Akaka

Welcome Remarks by Dr. Brenda Jensen, Acting HPU Provost

Director Masanori Kurita, George Balazs, & Jeffrey Seminoff - Dedication of the HPU STRETCH Workshop to **Dr. Haru Uchida**, Founding Director of the magnificent Port of Nagoya Public Aquarium and to **Dr. Wallace J. Nichols**, champion of Baja's Japanese Loggerheads,

Recognition of Mitsui O.S.K. Lines represented by Ms. Kanako Ota from Japan

PRESENTATIONS

1 - 830-845am - **Larry Crowder and George Balazs** - The Genesis and Evolution of Loggerhead STRETCH: What Sea Turtles Have to Teach Us About a Changing Ocean.

2 - 845-900am - **Jeffrey Polovina** - Small Turtles in a Big Ocean: Insights from Satellite Tracking of Loggerhead Sea Turtles as They Navigate the Central North Pacific.

3 - 900-915am - **Dana Bilscoe** - Emerging Insights from the STRETCH Project: Juvenile North Pacific Loggerheads as Sentinels of Ocean Change.

4 - 915-930am - **Philippe Gaspar (Zoom)** - The Active Dispersal Scenario of Juvenile North Pacific Loggerhead Turtles Revealed by Historical Satellite Tracking Data and Novel Operational Oceanography Products.

5 - 930-945am - **Masanori Mori and Masanori Kurita** - Breeding and Rearing Loggerhead Turtles at Port of Nagoya Public Aquarium.

6 - 945-1000am - **Noah Yamaguchi and Tomomi Saito** - The Features of Nesting Environment of the STRETCH Turtle Birth Beach.

1000-1030am - Morning Break and Group Photos with Workshop Banner

7 - 1030-1045am - **Tomomi Saito, Noah Yamaguchi, and Koki Sugiyura** - Loggerhead Turtle Nestling Trend on Kochi Beach from 2009 to 2024.

8 - 1045-1100am - Koki Suglura, Noah Yamaguchi and Tomomi Saito - Migratory Routes and Responses to the Marine Environment of Female Loggerhead Turtles Visiting the Waters off Kochi Prefecture.

9 - 1100-1115am - Tomoko Hamabata - Same Clutch, Different Journeys? A Research Proposal to Explore the Genetic Background of Movement Variability in Loggerhead Turtles.

10 - 1115-1130am - Matthew Rullshouser - Wildlife Computers Inc.: A Brief History, Current Ongoing Projects, and Direct Involvement with STRETCH.

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1200-1215pm Group Discussions, Questions & Answers

1215-145pm Lunch - On Your Own with Friends old and New

13 - 145-200pm - Laura Jim - Learning Through Turtles: Educational Opportunities with STRETCH.

14 - 200-215pm - Marc Rice - Engaging the Public: Our Blog as a Tool for STRETCH Outreach.

15 - 215-230pm - Jeffrey Seminoff (Zoom) - Loggerheads in the Eastern North Pacific: From Local Enigma to Conservation Flashpoint.

16 - 230-245pm - Call Turner Tomaszewicz (Zoom) - Demography and Habitat Use of Loggerheads along the North American West Coast: Insights from Skeletochronology and Stable Isotope Analysis.

17 - 245-300pm - Alberto Ábreu - What do STRETCH Loggerheads Tell Us About Their Recruitment into Mexican Habitats, and How can STRETCH Contribute to Loggerhead Conservation in Baja California?

18 - 300-315pm - Denise Parker - Loggerhead Landscape, Landmarks Frequented During Transpacific Travels.

19 - 315-330pm - Bianca Silva Santos - Habitat Suitability and Transboundary Considerations of Loggerhead Sea Turtles in the Eastern North Pacific.

330-400pm - Group Discussions, Questions & Answers, Closing Blessing



In memory of . . .

We dedicate the 5th Hawai'i Pacific University Sea Turtle Workshop to the memory of **Dr. Itaru Uchida**, Founding Director of the magnificent Port of Nagoya Public Aquarium; AND to the memory of **Dr. Wallace J. Nichols**, champion of Mexico's Baja California Japanese loggerhead turtles.



Dr. Itaru Uchida and George Balazs



Dr. Jeff Seminoff and Dr. Wallace J. Nichols

HAWAI'I PACIFIC UNIVERSITY

Hawai'i Pacific University would like to acknowledge the 'āina, the root culture, and the Indigenous People of Hawai'i. We also acknowledge how their wisdom and love have shaped Hawai'i in sustainable ways that allow us to enjoy these gifts today. We recognize the pain, sorrow, and multiple intergenerational losses that have been and continue to be inflicted on Kānaka Maoli. As an HPU community, both Indigenous and allies, we offer gratitude for the land itself, for those who have stewarded it for generations, and for the opportunity to learn, grow, work, and live in solidarity with one another. We commit to honoring Aloha, Pono, Kuleana. Holomua Me Ka 'Oia'i'o (move forward with truth).

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AC Marriott
10-9-2025

229

1111 Bishop St.

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Dotted
11 Bishop, --
Honolulu, HI 96813

Server: Jamie Rose M
Check #27
Guest Count: 4
Ordered: 10/9/25 8:15 AM
1 Drip Coffee \$6.00
1 Toast \$6.00
Subtotal \$12.00
x \$0.50
p \$5.00
Total \$17.50

Out Type C (EMV Chip Read)
SA CREDIT xxxxxxxx576
Time 8:19 AM

Transaction Type Sale
Authorization Approved
Approval Code 590690
Payment ID w7bXpMgMiqx
Application ID A0000000031010
Application Label VISA CREDIT
Terminal ID
Card Reader BBPK
Amount \$17.50

Welcome to The
Old Spaghetti Factory
3 Aloha Tower Drive
Suite 1106

Server: Yesenia
Time: 2:11/13
Guests: 1
10/09/2025
7:09 PM
3004

Spinach & Cheese Ravioli 22.50
Kona Big Wave 20oz 8.95
Subtotal 31.45
Tax 1.48
Total 32.93

25 28/18 56/23 21

Heath, CC

8 - 1045-1100am - Koki Sugita, Noah Yamaguchi and Tomomi Saito - Migratory Routes and Responses to the Marine Environment of Female Loggerhead Turtles Visiting the Waters off Kochi Prefecture.

necropsies

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Fracture Zones/Seamounts

18 - 300-315pm - Denise Parker - Loggerhead Landscape, Landmarks Frequented During Transpacific Travels.

19 - 315-330pm - Bianca Silva Santos - Habitat Suitability and Transboundary Considerations of Loggerhead Sea Turtles in the Eastern North Pacific.

330-400pm - Group Discussions, Questions & Answers, Closing Blessing



" A DAY OF ACOHA "

RYAN MELISSA



A DAY OF EXPLORING THE AMAZING TRANSPACIFIC WORLD OF LOGGERHEAD TURTLES IN A CHANGING OCEAN FROM JAPAN TO NORTH AMERICA AND RETURN

- 730am Complimentary Coffee, Tea, and Pastries. Registration Check-in. Free Parking Validation, Socializing and Seating.
- 800-830am Opening Ceremonies (Start of Zoom)
Ceremonial Hawaiian Blessing by Kahu Hanai Danny Akaka, Jr. and Anna Akaka
- Welcome Remarks by Dr. Brenda Jensen, Acting HPU Provost
- Director Masanori Kurita, George Balazs, & Jeffrey Seminoff - Dedication of the HPU STRETCH Workshop to **Dr. Igaru Uchida**, Founding Director of the magnificent Port of Nagoya Public Aquarium and to **Dr. Wallace J. Nichols**, champion of Baja's Japanese Loggerheads.
- Recognition of Mitsui O.S.K. Lines represented by Ms. Kanako Ota from Japan

PRESENTATIONS

- 1 - 830-845am - Larry Crowder and George Balazs - The Genesis and Evolution of Loggerhead STRETCH: What Sea Turtles Have to Teach Us About a Changing Ocean.
- 2 - 845-900am - Jeffrey Polovina - Small Turtles in a Big Ocean: Insights from Satellite Tracking of Loggerhead Sea Turtles as They Navigate the Central North Pacific.
- 3 - 900-915am - Dana Briscoe - Emerging Insights from the STRETCH Project: Juvenile North Pacific Loggerheads as Sentinels of Ocean Change. *39, 140W*
- 4 - 915-930am - Philippe Gaspar (Zoom) - The Active Dispersal Scenario of Juvenile North Pacific Loggerhead Turtles Revealed by Historical Satellite Tracking Data and Novel Operational Oceanography Products.
- 5 - 930-945am - Masanori Mori and Masanori Kurita - Breeding and Rearing Loggerhead Turtles at Port of Nagoya Public Aquarium. *1030*
- 6 - 945-1000am - Noah Yamaguchi and Tomomi Saito - The Features of Nesting Environment of the STRETCH Turtle Birth Beach. *1030*
- 7 - 1000-1030am - Morning Break and Group Photos with Workshop Banner. *1000*
- 7 - 1030-1045am - Tomomi Saito, Noah Yamaguchi, and Koki Sugitara - Loggerhead Turtle Nesting Trend on Kochi Beach from 2009 to 2024.



George Balazs <honumazu@gmail.com>

20 Introductory Statements with Speaker's Presentation Titles and Timeline for the STRETCH HPU 5th Sea Turtle Workshop, October 10, 2025.

1 message

George Balazs <itsahonuworlدينhawaii@hotmail.com>
To: George Balazs <honumazu@gmail.com>

Tue, Oct 7, 2025 at 3:26 PM

20 Introductory Statements with Speaker's Presentation Titles and Timeline for the STRETCH HPU 5th Sea Turtle Workshop, October 10, 2025.

730am Complementary Morning Coffee, Tea, Juices and Pastries- *Registration Check In*, Free Parking Validation, Socializing, and Seating.

800-830am Opening Ceremonies-

Hawaiian Blessings Ceremony by Kahu Hanai Danny Akaka Assisted by Anna Akaka.

Acting HPU Provost Dr. Brenda Jensen- Welcoming Remarks on behalf of Hawaii Pacific University.

Director Masanori Kurita, George Balazs, & Jeffrey Seminoff- Dedication of the HPU STRETCH Workshop to Dr. Itaru Uchida, Founding Director of the Magnificent Port of Nagoya Public Aquarium; AND to Dr. Wallace J. Nichols, Champion of Mexico's Baja California Peninsula Japanese loggerhead turtles.

Workshop Dedication Statement spoken by Masanori Kurita, Director of the Port of Nagoya Public Aquarium-

"I received the baton directly from Dr. Uchida, and I am participating in STRETCH as someone who carries on his legacy. I feel it is my mission to pass on the philosophy and passion that Dr. Uchida built to the next generation. I will talk about why Dr. Uchida began researching sea turtles, and what he envisioned when creating the Port of Nagoya Public Aquarium. I plan to conclude with the mechanical doll of Urashima Tarō."

Recognition of Mitsui O.S.K. Lines represented by Ms. Kanako Ota from Japan.

#1- 830-845am Larry Crowder and George Balazs- The Genesis and Evolution of Loggerhead STRETCH: What Sea Turtles Have to Teach Us About a Changing Ocean.

Larry Crowder is the Edward F. Ricketts Provostial Professor of Marine Ecology and Conservation at Hopkins Marine Station, Stanford Doerr School of Sustainability and a senior fellow at the Stanford Woods Institute for the Environment. He is also an Affiliated Faculty at Stanford Center for Ocean Solutions and Professor by Courtesy, Departments of Biology and Environmental Social Sciences. Current Interdisciplinary Projects include Dynamic Ocean Management in Costa Rica (DYNAMAR), Sea Turtle Research Experiment on the Thermal Corridor Hypothesis (STRETCH) and Traits-based tools to inform cross-jurisdictional fisheries management under climate change. He is an AAAS Fellow and was awarded Duke University's Scholar/Teacher of the year award in 2008-2009. Larry was recently named National Geographic Explorer and received a lifetime achievement award from the International Sea Turtle Society.

#2- 845-900am Jeffrey Polovina- Small Turtles in a Big Ocean: Loggerhead Sea Turtle Forage Habitats in the North Pacific.



Dr. Jeffrey Polovina is a marine ecosystem and fisheries scientist who worked at NOAA's Pacific Islands Fisheries Science Center for 38 years directing and conducting marine ecosystem research. Early in his career he developed the Ecopath ecosystem model however much of his research was focused on advancing our understanding of the impacts of fisheries and climate dynamics on the subtropical pelagic ecosystem with a focus on highly mobile species including loggerhead sea turtles.

#3- 900-915am Dana Briscoe- Emerging Insights from the STRETCH Project: Juvenile North Pacific Loggerheads As Sentinels of Ocean Change.

Dana Briscoe is a Lead Data Scientist with Stanford University. She has a background in oceanography and marine ecology and holds a PhD from the University of California Santa Cruz. She is a STRETCH co-PI and was lead author of the 2021 Thermal Corridor paper from which the STRETCH program arose. Dana will be sharing some of the key scientific insights gained from the project thus far and how the STRETCH turtles are serving as important ecosystem sentinels of a rapidly changing ocean.

#4- 915-930am (Zoom from France) Philippe Gaspar- The Active Dispersal Scenario of Juvenile North Pacific Loggerhead Turtles Revealed by Historical Satellite Tracking Data and Novel Operational Oceanography Products.

Philippe Gaspar is an Engineer in Applied Mathematics and a Doctor in Physical Oceanography from the University of Louvain (Belgium). As a postdoc at the French Met Office and then the Massachusetts Institute of Technology, he worked on the development of numerical ocean models and assimilation of satellite data in these models. In 1990, he became Head of the Satellite Oceanography Division of CLS-Argos (France), a team that pioneered the development of satellite altimeter products for sea level studies. In the 2000s, he developed a new field of activity at CLS focusing on the improvement and interpretation of marine animal's satellite tracking data. He is now a retired volunteer scientist at Mercator Ocean (France) where he co-develops the Sea Turtle Active Movement Model (STAMM), aiming to better understand the swimming activity of juvenile sea turtles.

#5- 930-945am Masanori Mori and Masanori Kurita- Breeding and Rearing Loggerhead Turtles at Port of Nagoya Public Aquarium.

Masanori Mori has been an aquarium keeper for 26 years and currently cares for sea turtles. Being part of the STRETCH project has been a highlight of my career, and he is grateful to share his passion with you today.

#6- 945-1000am Noah Yamaguchi and Tomomi Saito- The Features of Nesting Environment of the STRETCH Turtle Birth Beach.

Noah Yamaguchi is a Ph.D. student of Professor Tomomi Saito's laboratory at Kochi University. His research-life started with assessing population abundance of green turtles in the Yaeyama Islands by mark-recapture methods and drone surveys. Now, he researches the nesting environments for North Pacific loggerhead turtles. He joined STRETCH for MOL voyages in 2023 and 2024 as a caretaker of Cohorts 1 & 2.

***1000-1030am Morning Break & Group Photos with Workshop Banner

#7- 1030- 1045am Tomomi Saito, Noah Yamaguchi, and Koki Sugiura- Loggerhead Turtle Nesting Trend on Kochi Beach from 2009 to 2024.

Tomomi Saito, Ph.D., is a Professor at the Usa Marine Biological Institute, Kochi University. He earned his Ph.D. in Science from the University of Tokyo and previously worked at the Port of Nagoya Public Aquarium, specializing in sea turtle reproduction and conservation. His research focuses on the biology, ecology, and conservation of sea turtles, as well as marine and freshwater ecology and crustacean systematics. He has authored over 60 scientific papers, serves as Editor-in-Chief of an international journal, and is a member of the IUCN Marine Turtle Specialist Group.

#8- 1045-1100am Koki Sugiura, Noah Yamaguchi and Tomomi Saito- Migratory Routes and Responses to the Marine Environment of Female Loggerhead Turtles Visiting the Waters off Kochi Prefecture.

Koki Sugiura is an undergraduate student at Kochi University. He used to work at the Muroto Schoolhouse Aquarium, operated by the Sea Turtle Association of Japan, where he was involved in bycatch and nesting surveys of sea turtles. Aspiring to study satellite tracking, he transferred to Kochi University and joined the STRETCH project as a turtle caretaker, starting from the voyage of Cohort-III.

#9- 1100-1115am Tomoko Hamabata- Same Clutch, Different Journeys? A Research Proposal to Explore the Genetic Background of Movement Variability in Loggerhead Turtles.

Dr. Tomoko Hamabata's long-term research has focused on green turtles, using population genetics to study genetic diversity, connectivity, and local adaptations in coastal ecosystems. More recently, she has begun working on loggerhead turtles in Japan, with an initial focus on genetic structure and diversity. Building on this foundation and through collaboration within the STRETCH project, she would like to explore the genetic basis of movement patterns and individual variability in migration.

(48)

#10- 1115-1130am Matthew Rutishauser- Wildlife Computers Inc: A Brief History, Current and Ongoing Projects, and Direct Involvement with STRETCH.

Matthew Rutishauser works at Wildlife Computers and lives in Seattle, Washington, USA. Matt started off his career as a Lab Technician and Field Biologist at U.C. Santa Cruz working primarily with marine mammals. He then transitioned to building tags as an Engineer, and now is a Technical Product Manager guiding development of new tags at Wildlife Computers. Favorite field site: Cape Shirreff, Livingston Island, Antarctica. Favorite conference: Bio-Logging. Favorite ice cream flavor: Scout Mint.

#11- 1130-1145am Thierry Work- Necropsy Findings of North Pacific Loggerheads.

Dr. Thierry M. Work is currently the project leader for the National Wildlife Health Center Honolulu Field Station where he leads a team that provides support to safeguard wildlife and ecosystem health through research and technical assistance to federal, state, and international partners.

#12- 1145-1200 Noon- Robert Ahrens- Loggerheads at Loggerheads: Managing Turtle Interactions in Hawaii's Tuna Fishery.

Robert Ahrens is a fisheries scientist at NOAA's Pacific Islands Fisheries Science Center and former Associate Professor at the University of Florida. He specializes in quantitative modeling, bycatch estimation, and management strategy evaluation. His work integrates advanced statistical methods and policy frameworks to improve sustainable fishery management and reduce bycatch impacts.

*****1200-1215pm Group Discussions Questions & Answers**

*****1215-145pm Lunch- On Your Own with Friends Old and New**

#13- 145-200pm Laura Jim- Learning Through Turtles: Educational Opportunities with STRETCH

Laura Jim is a seasoned educator at Hawai'i Preparatory Academy on the Big Island, where she serves as Co-Director of the school's Sea Turtle Research and Stranding Program. She is dedicated to advancing HPA's mission by providing students with exceptional, hands-on learning experiences while supporting sea turtle research and community education. A passionate environmentalist, she actively contributes to stranding response, fishing line recycling, and coastal cleanups across Hawai'i Island.

#14- 200-215pm Marc Rice- Engaging The Public: Our Blog as a Tool for STRETCH Outreach.

Marc Rice is a marine biologist and former administrator at Hawaii Preparatory Academy (HPA). He has been involved with the school since 1971, holding various roles including science teacher, director of studies, and assistant headmaster. Since 1987, Rice has been a director of the HPA Sea Turtle Research Program, a cooperative partnership with the National Oceanic and Atmospheric Administration (NOAA). He is currently Co-Director of the Program along with Laura Jim. The program involves students in hands-on field expeditions to capture, tag, measure, and conduct health assessments primarily on green turtles. Rice has conducted or been part of over 400 field expeditions in Hawai'i and other locations like Japan, Australia, American Samoa, Palmyra Atoll, Lalo Island, Singapore, Vanuatu, and Fiji. Although he retired from HPA in 2024, he remains active in sea turtle research.

#15- 215-230pm Jeffrey Seminoff- Loggerheads in the Eastern North Pacific: From Local Enigma to Conservation Flashpoint.

Jeffrey Seminoff is Leader of the Marine Turtle Ecology & Assessment Program at NOAA-Southwest Fisheries Science Center in La Jolla, California. Since 1992 Jeffrey has been involved in ecological research and conservation of sea turtles. He has a Ph.D. from the University of Arizona (2000) and was a post-doc at the Archie Carr Center for Sea Turtle Research at the University of Florida before joining NOAA in 2002. Seminoff is a member of the IUCN Marine Turtle and IUCN Tortoise and Freshwater Turtle Specialist Groups, and is Past-President of the International Sea Turtle Society (2011). His research uses innovative approaches such as stable isotope analysis, biotelemetry, and aerial surveys to study sea turtles around the world. Jeff, his wife Jennifer, daughter Quin, and son Graeson enjoy sharing meals and laughter whenever the kids are in town, often while being watched by their two pugs, Arlo and Boo.

#16- 230-245pm Cali Turner Tomaszewicz- Demography and Habitat Use of Loggerheads along the North American West Coast: Insights from Skeletochronology and Stable Isotope Analysis.

Cali Turner Tomaszewicz is a Research Biologist at NOAA Fisheries' Southwest Fisheries Science Center in the Marine Mammal & Turtle Division. Cali began working with NOAA's Marine Turtle Ecology & Assessment Program in 2008, and focused on North Pacific Loggerheads during her PhD at the University of California San Diego in collaboration with NOAA and Grupo Tortuguero in Baja California, Mexico. During her PhD, she developed methods to use the bones from dead stranded turtles recovered along the Baja Pacific coast to combine skeletochronology (the analysis of bone growth layers) and stable isotope analysis, to investigate the age demographics and habitat movement patterns of North Pacific loggerheads recovered in this region, resulting in two publications. This work helped lay some of the groundwork for the STRETCH research project in investigating when loggerheads appear to recruit to the North American coast in the seminal 2021 Thermal Corridor paper, and Cali is still using the same techniques - and more - to help further our understanding of these turtles in cooperation with the NOAA stranding response teams and the US West Coast Sea Turtle Stranding Program partners.

#17- 245-300pm Alberto Abreu- What do STRETCH Loggerheads Tell Us About Their Recruitment into Mexican Habitats, and How can STRETCH Contribute to Loggerhead Conservation in Baja California?

Dr. Alberto Abreu is a Research Scientist and Professor at the Mazatlán Unit of the Institute of Marine Sciences and Limnology, part of the National Autonomous University of Mexico (UNAM). His core expertise lies in the population genetics of sea turtles, with a broader research interest in integrating genetic data with satellite telemetry to illuminate how behavioral patterns influence conservation outcomes.

#18- 300-315pm Denise Parker- Loggerhead Landscapes, Landmarks Frequented During Transpacific Travels.

Denise Parker currently lives in Newport, Oregon. She began her career working with Hawaii's Division of Land and Natural Resources Aquatic Division in 1989. She joined the National Marine Fisheries Service, Honolulu Lab, which later became the Pacific Islands Fisheries Science Center, National Oceanic and Atmospheric Administration (NOAA) in 1991. Denise first supported research on lobster and bottom fish before joining the Marine Turtle Research Program in 1994, working with sea turtles throughout the Pacific. Her main focus has been telemetry and tracking different species of sea turtles, including green, olive ridley, hawksbill, leatherback and loggerheads. In 2016, she became an independent researcher, a co-chair of the Marine Turtle Specialist Group for Ocean for a number of years and is contributing to the STRETCH program as well as continuing to assist in sea turtle research around the Pacific.

#19- 315-330pm Bianca Silva Santos- Habitat Suitability and Transboundary Considerations of Loggerhead Sea Turtles in the Eastern North Pacific.

Bianca Santos is an interdisciplinary marine scientist with expertise at the intersections of marine conservation, policy, and social-ecological systems. She recently completed her PhD in Environment and Resources at Stanford University, where her research focused on the adaptive management of highly migratory marine species from science, policy, and societal perspectives. She is currently the Global Ocean Program Associate with The Nature Conservancy and a research consultant with Loggerhead STRETCH.

*****330-400pm Group Discussions Questions & Answers & Closing Blessing
Estimated to Adjourn no later than 4pm.**

10/6/25, 6:11 PM

Hawaii Pacific University Catering - Administration System

Order Name: Sea Turtle Symposium - 10/10/2025



Hawaii Pacific University Catering
1 Aloha Tower Drive Suite 1404,
Honolulu, HI 96813
317.460.4180

INVOICE #3422
Friday, 10/10/2025
Ordered On: 10/7/2025
Last Modified: 10/7/2025 12:11:52 AM
Confirmed

Customer Information

First Name: Jeannie
Last Name: Manzano
Address: 500 Ala Moana
Blvd., Suite 4-200
City: Honolulu
State: Hawaii
Zip Code: 96813
Email: jmanzano@hpu.edu
Office Phone: (808) 543-8044

Delivery / Pickup Information

Method: On Campus
Delivery
Delivery Contact: Jeannie Manzano
Delivery Phone: 808-543-8044
Floor: 1st
Room: MPR#3
Table and Chairs Using Existing
Requested:
Serviceware: Disposable

52

Mobile Phone: (808) 277-0305
Department / College of Natural
Student and
Organization: Computational
Sciences

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Event Information

Guest Count: 75
Pick-up/ Delivery Friday, 10/10/2025

Date:

Event Start Time: 7:30 AM

: 4:00 PM

Clean Up Time: 4:00 PM

Payment Information

Payment Type : Invoice to
University
Department: College of Natural
& Comp
Event Authorized Event Not Yet
By: Authorized

FOOD

Sea Turtle Symposium - 10/10/25 - 75 Pax

Event Time: 7:30am

Event End: 4:00pm

Drop Bev & Food - 7am - 7:15a

(VG | PF) Seasonal Fresh Fruit Platter - per person

(V) Assorted Pastries to include Muffins, Scones, Danish, and
Croissants served with Butter and Jam - per dozen

Qty.	Price	Ext.
1	\$0.00	\$0.00

75	\$5.49	\$411.75
7	\$32.59	\$228.13

54

10/6/25, 6:11 PM

Hawaii Pacific University Catering - Administration System

BEVERAGE

	Qty.	Price	Ext.
Regular Coffee - per gallon	2	\$31.19	\$62.38
Iced Water - per gallon	2	\$2.49	\$4.98
Hot Water with Assorted Tea Bags - per gallon	2	\$31.19	\$62.38

LABOR

	Qty.	Price	Ext.
Labor	4	\$28.12	\$112.48

Labor 1 Associate at 4 hours - \$28.12 per hour

* Any amount charged by Aramark (such as an administrative, service, delivery, labor, or other charge or fee), unless expressly designated as a tip or gratuity, is not for the benefit of any employee(s) and is not a tip or gratuity. Charges or fees other than those designated as tips or gratuities are not distributed to employees except where expressly stated otherwise in writing.

	Order Totals
Sub Total	\$882.10
Tax (4.712%)	\$41.56
Order Total	\$923.66
Balance Due	\$923.66

Special Instructions

Invoice #3422

Notes from HPU Meeting Day 1

OCT. 9, 2025 STRETCH 9AM-4PM
BY LAURA JIM

Phillippe

- Processing of stretch tracking data
- Analysis of resulting swimming velocities
- Developments, tuning and use of a new version of STAMM based on STRETCH tracking data
- Dana has processed Cohort 1 & 2 Agos data using aniMotum software (Jonsen et al.) to smooth & resample all trajectories with a time step of 12 hours
- Working to improve the accuracy of the drift velocity estimation in the CCS
 - It isn't easy as they are using global data model but hoping there are other models that could be better
- Preliminary analysis s swimming velocities obtained with "legacy" drift correction suggest they perform drifting then homing seasonal migrations
- A simple adaptation of the STAMM model displays clear shortcomings
 - Season migrations are simulated but their amplitude is too small
 - Homing behavior is not simulated (this was expected)

BUSINESS SOFTWARE
MEETING 616 PIONEER PLAZA

If anyone is interested and wants to help on that task, STAMM is freely available (on github). "We would be happy to help implement in any lab."

Question from Jeff regarding models for lower trophic level modeling and the answer is yet with a reminder of Melani's thesis and opportunities for further studies

Question from Jeff models looked at west to east movements with there hasn't been much regarding the movements of loggerheads - including mechanisms - around the Gulf of California and Baja region. Has been a mystery on the timing of when they get there, etc. Alberto agreed that this is interesting and a placeholder for transition from oceanic to neritic. He assumed they would move immediately to neritic but they didn't. Why? Could the model adopt the model of going oceanic to neritic. Phillip says yes - model of velocity shows there is more food along the coast rather than open ocean. But they do need to get close enough but passive drift models mean none will make it there. So... ocean circulation is not the thing that will get them close to the coast. Must be a combination of swimming and oceanographic conditions.

Larry shared that 25 coastally tagged had some of these go back out to oceanic realm suggesting the switch might not be fixed.

Dana shared the model might be able to be tuned to the turtle's age. Phillippe - yes, could modulate growth as a function of habitat dependent growth.

Dana and Jeff

Current stuff; current draft with the idea that some turtles from cohort 2 have moved into higher latitudes and into the north pacific current. Implications of moving into the northern part of california current. Phillippe and Jeff adding in some newer analyses and datasets. Then I will move to Frontier for hopefully a close review.

Idea next is to look at the Baja area with added species distribution modeling. With a lot of expertise on the coastal area - original work was oceanic work - now seeing tracks putting a lot of focus on the nearshore environment off Baja and Mexican coast. Oceanic Baja might have seasonal inhabitants (based on food). What movement is there in and out? What is the coastal habitat like?

Larry: recent cohort has multiple going further north with first in Monterey Bay. Michelle used anthropogoy to confirm it was a loggerhead. So turtles are moving north imperically as well as satellite data. 2024 when loggerhead has shown up.

Interesting: What is allowing critters to head up to the northern regions?

Dana: Hope is following these two days is to keep the zoom meetings going and moving forward with smaller working groups.

Conversation is regarding the Bay that Jeff did aerial surveys. Though his surveys (2005-2007) were finding adult turtles so perhaps this is the reason for the differences between at sea or at the Bay - could just be "sampling" at the area. Perhaps there are some disparities with ages / sizes. Jeff reminds us of a changing ocean. The changes in productivity, prey base is less, etc. around the northern California / Pacific Northwest. If this is happening in the northern part of this current it would be interesting to know how things are changing in the gulf. If they are changing this might be why some turtles are hanging on the outside. Pure speculation without data - wondering what type of data collection can help us decide how the habitat has changed.

Larry - reminder that turtles will follow the "newer" oceans. This might be much different than what the "textbooks" offer.

Alberto

Two handles - in situ work in the gulf. He doesn't have that information but would be great to set up bridges with groups that are working there. Synchronizing questions that are being asked could be answered and will have tremendous impact on bycatch.

The second aspect is that seas are different with abundance of prey is different. Question is... how much information will be available to know where there is gelatinous species, red crabs, etc. This information can then help answer questions. Can this be added to the models to help make sense of their work.

Remember there are many turtles in the Central Pacific. Perhaps these will eventually find their way to the Bay once they are older (not our cohort who have moved there during their live tag).

Marc- extend tag duration? Larry - topic for this afternoon and what are the new opportunities that could ask for more funding. Perhaps too this could impact fisheries and conservation with the potential to better target fishing regulations to better manage (and allow for fisheries) rules and regulations. Mentioned the bycatch issues at the transition zone is a much larger population and should not be

Data mentioned quarterly cruises whose data could conceivably be used. Generate questions that can ask a question that targets a specific "need" which is then more enticing for funders.

Look up Turtle Watch and Mobile Protected Areas- fishers and permits is not black and white

George: Could definitely learn a lot about the gut contents of the turtles in bycatch. What an essential batch of data which we don't know that we are getting. Alberto feels it is available with the community nearshore who are fishing but what about the oceanic population? Cali shared that all strandings do get stomach contents.

Stephanie: Shared a bit about the sensitivity of the topic but the opening of two different programs to engage. Jess asked a question regarding

Dr. Hamabata

Analyze the genetics of stretch turtles. The hatchlings of each cohort derived from one female mother every year. So... the habitat variation occurred within the siblings. This implies the differences in habitat are not controlled by genetics. When she spoke to some members in Nagoya they shared that the movement appears to be very opportunistic and flexible. This shows the genetic contribution is very weak. We should examine more things because the turtles have multiple paternal matings such that within one clutch there can be genetic variation due to paternity. We should examine each and compare their movements. She would like to do that first.

Larry: Makes sense that they are likely half male and half female (based on next temperatures) but perhaps paternity might cause variances. We might expect behavior to be more heterogeneous and some might look at it naively but evolutionary biologists question that.

Jeff: Perhaps look at two different nesting beaches for our next cohort in order to compare behaviors. This will conceivably provide some extreme genetic variations.

Alberto: Do we look at sexing the next cohort? Larry says we could laparoscopy them.

Discussion with Japan group with questions about if we could do sexing in March prior to release and there is some hesitation. Just an idea - and things to think about.

PhD students for Stanford Lab

Float idea - (some embryonic stage) - get feedback with ideas that emerge that might kick open a whole new door

Catherine

Subteam: Alberto, Bianca, Jeff and ?

Interested in using the stretch dataset to look at from a comanagement approach on a global scale. Gaps are return rates in nesting females - is this signaling success. But George and Noah said we don't actually have that information for Kochi Beach. Is there any way that we could start getting that information?

Question about extending transmission times

Phillippe: Changes in Argos have elevated the amount of satellites available (every 15 minutes) so that we can get a good position every day. I think a couple of transmissions per day would be enough. Maybe 2 hours of transmission per day which will guarantee a location. Huge savings in time of energy. Suggesting to test that. Existing data is sufficient to allow for extending the time frame for this next cohort. Long trajectories over several years are necessary to see cyclical changes. Strongly in favor of extending with lifetag.

Dana: Make a really good point that the ability to have multiple years of data - legacy data of 3, 4, 5 years gave so much insight. If we could extend battery life would be a great idea.

Jeff S: health versus science, as long as the tag sizes and health to the turtles are appropriate, from long term science standpoint would be great as they often fall off just when the story starts to be told

Matt: New argos is opening up locations quite a bit. The fasto tag(?) is better than the argos tag but George notes that those tags are too big. With the spot tags the upper limit (turned off transitions) is 7 years (just doing its bookkeeping). He worries about antifouling methods / paint but if it wears off or falls off that could be the critical failure. With Argos locations might be 10 or 20 times per day to get a sufficient position.

Phillippe: With increased number of satellites position might be getting better and GPS not needed. Suggests with current tags and the addition of satellites we can probably look at the transition.

Matt: Maps are not yet incorporating the new satellites - they have not developed a good program. There is no backend support as they haven't really got these systems set.

George: Highlights the program of mock tag at Nagoya Aquarium - showing the attachment of turtles is not harming growth. The first one was for 6 months before purposeful removal and the second one is 1.5 years and still on.

Larry: Let's remind that we are placing the turtles at a place that they have never been placed and setting them in a place where they might be making the movement towards the Baja area. We can imagine hat we can do or what kinds of changes we can make that the technology can give us but what is the question we are asking? Group needs to identify priorities given what we have already learned - we need to see a cold year or we are not done. Remember 2027 is the end of STRETCH. If we are going to continue, it needs to be the next grant proposal. That proposal (to funders) needs to ask a specific question. Whether we can technologically do something we want to do has to be the experimental question or science that we agree to do.

Alberto: We are on the brink of figuring out what the turtles do while they are doing it and we can do that because we have higher accuracy. By extending the transmission are we losing this? Question is how we decide the new strategy using information we have. With the new satellites coming on we can see exactly what would happen if we alter transmission.

CCB / Turtle Newsletter idea to publish survivability of turtles based on satellite tag success. "Survival of 2 year old turtles at sea" in "rearing for research"

zoom

Meeting assets for STRETCH Team Meeting are ready!

Meeting summary

Quick recap

The meeting began with introductions and discussions of a physical oceanographer's work plan focused on analyzing sea turtle movements and ocean circulation patterns. The team reviewed their progress on analyzing swimming velocities and dispersal patterns of loggerhead turtles, including seasonal migrations and model improvements, while also discussing the expansion of turtles into new Pacific areas. The group explored various conservation and management approaches, including co-management strategies, satellite tag improvements, and survival rate findings, while emphasizing the importance of international collaboration and community engagement in protecting sea turtle populations.

Next steps

- Dana and Jeff to revise the current draft paper with Philippe and Julien's drift-corrected tracks analysis and submit to *Frontiers in Marine Science*.
- Dana, Jeff, and Alberto to form a working group to analyze turtle movements in the Baja California area.
- Alberto to explore opportunities for collecting stomach content samples from dead turtles found offshore to distinguish their diet from coastal turtles.
- Graduate students to analyze the data to determine what resolution of tracking data is necessary to understand turtle decision-making.
- Wildlife Computers team to provide information on how to optimize tag programming for longer battery life while maintaining adequate data collection.
- Team to analyze existing data to determine the impact of reducing transmission frequency on data quality.

- Team to investigate the new Argos/Kineis satellite constellation capabilities for improving tag transmission efficiency.
- Larry to visit MOL office in Tokyo on November 7th to provide a briefing on the STRETCH project.
- Larry to give a talk at PMPA on November 14th.
- Graduate students to consider writing a paper on the survival rates of the STRETCH turtles.
- Kimoko to examine multiple paternity in the turtle cohorts and compare their movement patterns.
- Larry to arrange a visit to San Diego for the students to meet with Jeff Seminoff.

Summary

Sea Turtle Ocean Research Planning

The meeting began with introductions, including Philippe Gaspar, a physical oceanographer who works with Mercator Ocean as a volunteer. Philippe presented his team's work plan, which includes three main tasks: analyzing sea turtle movement patterns using satellite tracking data, developing ocean circulation models to understand how the ocean controls turtle movements, and creating a database of historical sea turtle observations. The group discussed logistics for the day's activities, including lunch and dinner arrangements, and Stretch emphasized the collaborative nature of the team's work.

Loggerhead Turtle Dispersal Analysis

The team discussed their progress on analyzing swimming velocities and dispersal patterns of loggerhead turtles. Philippe explained that they have reprocessed Argos data and computed drift-corrected velocities, but noted that the current drift correction may not be accurate in the California current system. They are working to improve this estimation using the Mercator model. The team has observed seasonal migrations and oming behavior in the turtles, which aligns with their previous findings from legacy data. Philippe also mentioned their efforts to adapt and improve the STEM model for simulating these dispersal patterns, including testing different formulations and inputs. The group discussed the possibility of using output from the LTM model as a forcing term for STEM.

Philippe will be available for a few hours today and tomorrow to continue these discussions.

Loggerhead Turtle Movement Patterns

The group discussed loggerhead turtle movements in the Pacific, particularly focusing on their expansion into new areas like the Gulf of California and along the Pacific coast of Mexico. Jeffrey highlighted the need to explore mechanisms behind these movements, while pgaspar noted that their models initially overestimated loggerhead presence in the Gulf of California. The team agreed to form a working group to investigate these coastal habitats and their oceanographic conditions, with a focus on understanding seasonal movements and habitat use. They also discussed the potential for habitat-dependent growth in their models and the importance of considering changing ocean conditions that may affect turtle movements and prey availability.

Marine Conservation and Fisheries Management

The meeting discussed the challenges and opportunities in managing commercial fisheries and protecting marine life, particularly turtles. Stretch highlighted the need to balance fishing activities with conservation efforts, mentioning the success of the Turtle Watch program and the potential for mobile marine protected areas. The group explored the importance of analyzing stomach contents of dead turtles to understand their diet and identify areas of risk. Cali and others noted ongoing efforts to collect and analyze such data, though limitations exist due to decomposition and offshore strandings. The discussion also touched on the sensitive issue of bycatch, with interest expressed in collaboration with fishing communities and organizations in Baja to address this issue.

Sea Turtle Genetic Diversity Study

The team discussed genetic and behavioral variations in sea turtle cohorts, focusing on habitat differences and the potential impact of multiple paternities. They explored the possibility of introducing genetic variability by releasing turtles from different nesting beaches and considered sexing juvenile turtles through laparoscopic surgery, which was previously tested with a 98% survival rate. The group also discussed calibrating hormone tests to determine sex ratios and the potential need to repeat these tests for Pacific turtles, given the differences between Atlantic and Pacific

loggerhead populations.

STRETCH Project Progress Update

The meeting discussed the STRETCH project's progress and future plans, including a presentation at the FACES meeting in Wilkah and a visit to the MOL office in Tokyo on November 7th. Pat presented ideas for a co-management approach to studying leatherback turtles globally, focusing on nesting success and return rates. The team discussed the need to fill knowledge gaps, particularly regarding nesting female return rates, and the importance of international cooperation in managing oceanic turtle populations.

Loggerhead Turtle Conservation Collaboration

The discussion focused on conservation efforts for loggerhead sea turtles across the North Pacific, particularly highlighting successful social and cultural exchanges between fishing communities in Japan and Baja, California. These exchanges led to increased awareness and conservation actions, with one prominent fisherman in Baja becoming a conservationist after learning about the global impact of turtle bycatch. The conversation also touched on China's approach to loggerhead conservation, noting that while they have been successful with green turtles, their plan to raise loggerheads in captivity may not be effective due to population dynamics issues.

Global Sea Turtle Co-Management Strategies

The discussion focused on co-management approaches for sea turtle conservation, particularly examining different models across global regions and their effectiveness. Stretch described experiences in Belize where successful co-management often involves NGOs working alongside government agencies, though fisheries management has faced challenges due to limited resources and outdated regulations. The conversation explored how different cultural and political contexts affect management approaches, with examples from Japan, Mexico, and other regions, highlighting the need for tailored solutions. The group discussed the importance of knowledge sharing and community engagement, noting that successful conservation requires understanding both local needs and international connectivity of turtle populations.

Satellite Tag Transmission Optimization

The group discussed extending the transmission time of satellite tags to improve data collection and battery life. Philippe proposed testing longer transmission periods, potentially reducing it to 2 hours per day, given the new Argos satellite constellation's improved coverage. Luis emphasized the importance of long-term data collection for scientific insights, while Jeffrey highlighted the need to balance science benefits with animal welfare. Matt from Wildlife Computers explained the power efficiency of FastLock GPS and the potential of the new Argos system, but noted that current tags are already small enough without adding GPS. The team agreed to test the new transmission settings using existing data and consider extending tag lifetimes to several years.

Tag Deployment Extension Strategy

The team discussed extending tag deployments from 2026 to 4 years, but concerns were raised about funding the \$2,800 monthly Argos bills and analyzing data without ongoing support. They explored trade-offs between high-resolution daily data versus longer-term deployments, with Nari suggesting they could analyze existing data to determine the minimum transmission frequency needed. The group agreed to brainstorm new scientific questions and technological approaches, while Larry emphasized the need to make a strong case to funders for any future extensions beyond the current project's scope.

Loggerhead Turtle Survival Success → p. 71



The meeting focused on the survival rates of loggerhead turtles equipped with satellite tags, with participants expressing satisfaction at the turtles' resilience in the wild. George highlighted the importance of this finding, emphasizing that it contradicts earlier doom-laden predictions about turtle survival. The group discussed the potential for conservation opportunities in rearing turtles for research, despite some taboos within the turtle community. Jeff Seminoff agreed with George's

the current project's scope.

Loggerhead Turtle Survival Success

The meeting focused on the survival rates of loggerhead turtles equipped with satellite tags, with participants expressing satisfaction at the turtles' resilience in the wild. George highlighted the importance of this finding, emphasizing that it contradicts earlier doom-laden predictions about turtle survival. The group discussed the potential for conservation opportunities in rearing turtles for research, despite some taboos within the turtle community. Jeff Seminoff agreed with George's assessment of the turtles' survival rates and emphasized the need to discuss rearing practices further. The team also explored the possibility of analyzing survival rates using existing data sets and considered forming a working group to address sampling issues. The conversation ended with expressions of gratitude to key participants and a plan to continue discussions after the workshop.

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Jan
13

HNL → KIX
Flight HA 849
Operated by:
Hawaiian Airlines

Guest
George
Balazs

Details
Seat 02G
First/Business

Oahu - Honolulu, HI (HNL) to
Osaka Kansai, Japan (KIX)

Depart
01/13/2026 01:20 PM
Arrive
01/14/2026 06:45 PM

ATMOS-
757094715

Jan
19

KIX → HNL
Flight HA 850
Operated by:
Hawaiian Airlines

Guest
George

Details
Seat 02G
/Business

Osaka Kansai, Japan (KIX) to
Oahu - Honolulu, HI (HNL)

Depart
01/19/2026 08:45 PM
Arrive
01/19/2026 08:45 AM

HAB50
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0 173HA 662625
BALAZS/GEORGE
EJQOHV 1 PC
PRINT DATE GMT: 19JAN26
KIX
0 173HA 662625 **215**

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2 JAN
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Seat Cost:
Taxes and Fees:
Total Travel Cost:

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\$3,225.00 USD

\$213.21 USD

\$3,438.21 USD

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Tuesday 12:00pm Monday 8:45AM

(80)

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FLIGHT HAB50 C 19JAN2026 KIX > HNL

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18	08:15PM	1	2G
BOARDING ENDS 08:20PM			

LOYALTY: AS****715 GOLD
CONFIRMATION CODE: EJQOHV
E-TICKET: 1732315151635
(V200064)

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TO
HONOLULU/HNL

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09:00AM

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INOUE INTL
Terminal: 2

OSAKA KANSAI
INTERNATIONAL
Terminal: 1

HA849 13:20 18:45
13Jan2026 14Jan2026

Class: BC, C
Seat : 02G
Baggage (4) : 2PC
Fare basis : CLXURDJJ
Special Service Request:

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Marketed by : HAWAIIAN AIRLINES
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Frequent flyer number : 115219970

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Duration : 10:25

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INTERNATIONAL
Terminal: 1

HONOLULU DANIEL K
INOUE INTL
Terminal: 2

HA850 20:45 08:45
19Jan2026 19Jan2026

Class: BC, C
Seat : 02G
Baggage (4) : 2PC
Fare basis : CLWURDJJ
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Booking status (1) : OK
Frequent flyer number : 115219970

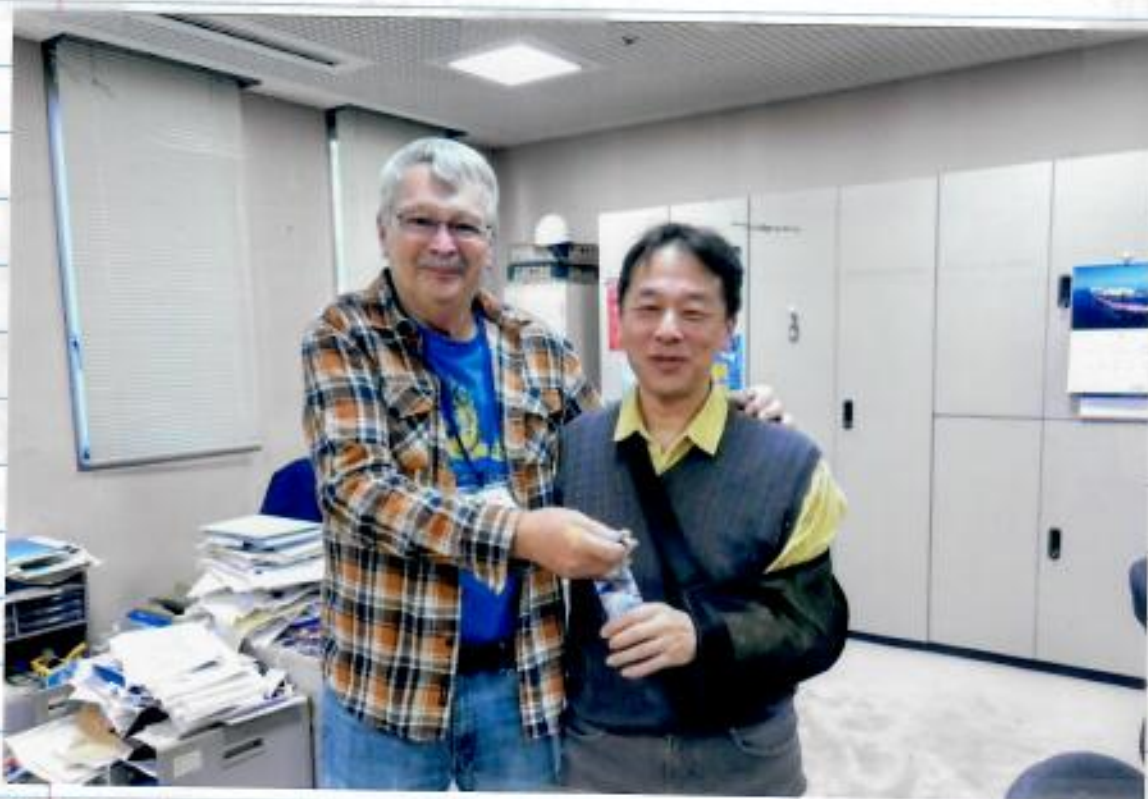
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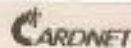
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合計金額 ¥263,000

TOTAL AMOUNT

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 ご出発 /Departure : 2026年01月19日
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Cc W-6
 アラスカ産の種別 (Carcass)
 採れた場所 (アラスカ州)
 採れた時期 (2001年)

採れた種別
 新アラスカ産の種別
Cc 97-11
 アラスカ産の種別 (Carcass)
 採れた場所 (アラスカ州)
 採れた時期 (2001年)

採れた種別
 新アラスカ産の種別
Cc 97-11
 アラスカ産の種別 (Carcass)
 採れた場所 (アラスカ州)
 採れた時期 (2001年)

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- まずは、ココをひねってちぎる。
- 大きい骨の首を指ではさんで手前におくと
- スポットと身の部分がきれいに剥けちゃう!
- 少し骨が残った所もしゅわしゅわがおいしい!
- 小骨は残りますが、食べやすいので大丈夫です。
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取扱区分 110
商品区分 0310

端末番号 TERMINAL 60522-510-69835
カード会社 CARD CO. ビザ/マスタ-(104)
承認番号 APPROVAL NO. 032024
処理通番 TRAN NO. 486455

金額 ¥16,071
AMOUNT

VISA CARDHOLDER
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。
ARCOO ATCOOFB No03 *2a996630000*
A000000031010
VISA CREDIT
売場 SALES COUNTER 係員 CLERK

お客様 COPY

1/15
LAWSON
CELL CABLE

関空エアロプラザ2階店
登録番号: T8170001012169
大阪府泉南郡田尻町泉州空港中3
電話: 072-455-4522 店コード: 220434
2026年1月16日(木) 08:19

クレジット売上票
[お客様控え]

合計 ¥1,078
(内消費税等 ¥98)
(10%対象 ¥1,078)
(内消費税額 ¥98)
点数 100

小計(税抜8%) ¥310
消費税等(8%) ¥24
合計 ¥334
(税率8%対象 ¥334)
(内消費税等8%) ¥24
クレジット支払 ¥334

名古屋港ポートビル

名古屋港ポートビル



クレジットカード売上票 お客様控

加盟店名: カト'ヤク'社
 電話番号: 052-682-1111
 ご利用日: 2026/01/17 16:04:02
 カード会社: MFGD
 カード番号: IC 438857000004036
 端末番号: 55088-880-27593
 端末番号: 55088-880-27593
 承認番号: 020834 / 取引区分: 売上
 支払区分: 一括 / 商品区分: 0900
 0900
 0900
 0900

SUSHI 1/17
クレジットカード売上票

加盟店名: 水木 加々池
 MERCHANT: 052-681-0041
 端末番号: 66169-620-10383
 ご利用日: DATE 2026/01/17 18:34:27
 会員番号: 438857*****4036 IC

美
O
Z

飲

ACCT # 会社: カト'ヤク'社
 承認番号: 0028210
 処理通番: 0886158
 取引内容: 伝票番号: 04924 有効期限: XX/XX
 売上
 支払区分: 取扱区分: 商品区分
 一括: 110 310

金額 ¥6,200

AMOUNT BALAZS/GEORGE 様 280

ご利用ありがとうございました 1450

またのご来店をお待ちしております 1380

ARC 00 ATC 00258 No.03 1450

AID A0000000031010 1650

VISA

APP LABEL VISA CREDIT

売場 SALES 係員 CLERK 30

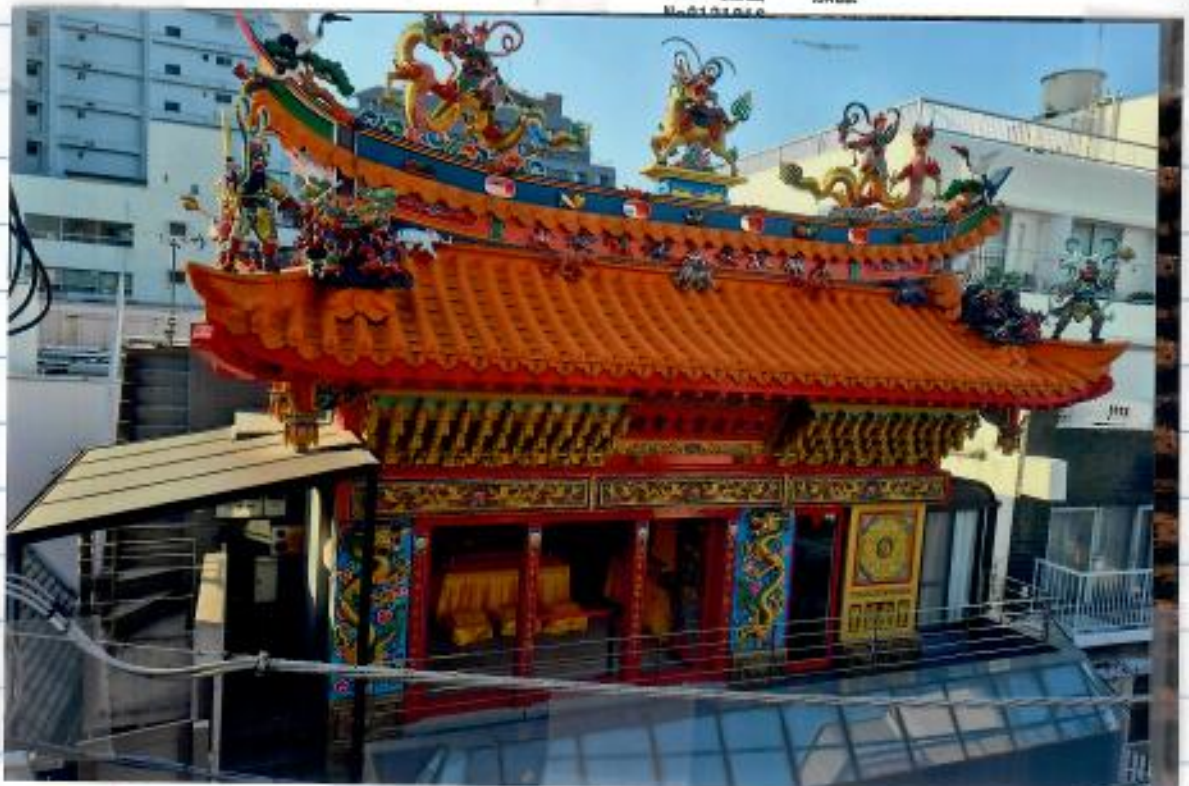
63)

63)

GMO-FG お客様控え 200

金

オーダー担当 加藤



1/18/26

クレジット売上票

加盟店名 川軒 加賀
MERCHANT 052-678-3310
端末番号 71134-620-30340
ご利用日 DATE 2026/01/18 20:53:38
会員番号 438857*****4036 IC

ACCT No
カード会社 CARD COMPANY ビザ/マスタ
承認番号 APP CODE 000158D
処理番号 TRAIL No 0983997
取引内容 伝票番号 有効期限
売上 51821 XX/XX
支払区分 取扱区分 商品区分
一括 110 990

金額 ¥3,840

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 DO ATC 00264 No.03
AID A0000000031010
VISA
APP LABEL VISA CREDIT
売場 SALES 係員 CLERK

GMO-FG

SKIN JAGGWA
お客様控え
LOPOH

BOX DINNERS

1-19-2026

PLUSTA

領収書
プラスタ名古屋幹線下09
TEL: 050-1792-3868

2026年 1月19日(月) 8:51 No:0001

ビュレグミブレミ ※ ¥194
世界の山ちゃん天 ※ ¥302
内税8%対象額 8.00% ¥496
内税8% 8.00% ¥36
合計 ¥496
クレジット ¥496
(消費税等 ¥36)

クレジット売上票

お客様控え

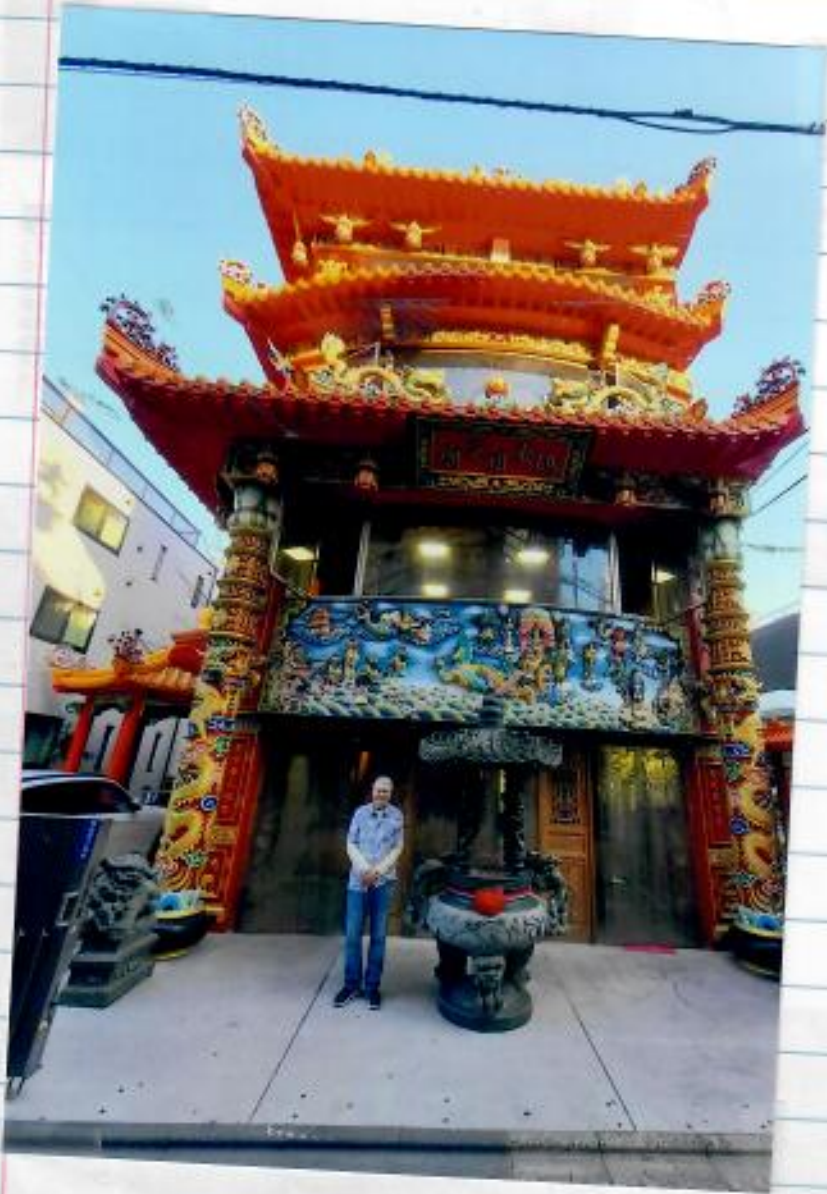
この控えは大切に保存して下さい。

ご利用日 DATE 2026/01/19 08:52:01
カード会社 a99664-014 IC/CR
CARD Company UJF Jカード V/M
会員番号 4388-57XX-XXXX-4036
ACCT No
端末番号 TERMINAL 6410490020001
承認番号 APPROVE No 060804

五平餅/食事処

食堂 中村

Address: 長野県木曾郡上松町寝覚/床入口
Tel & Fax: 0264-62-2183/3076
Email: gohei-n@web3.so-net.ne.jp



沈香 本行出品

MAZU Temple
Near SHIMA GAWA





JAPAN RAIL PASS
(GREEN 7DAYS)

567
-04

2026.-1.15~2026.-1.21
YEAR-MONTH-DAY (外-中 7日間用)



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

¥70000(A)

(4-タ) 00105-01
再発行 C11

7345/0154-229781

2026.-1.15(中) 金山駅MR2発行

指定券(グリーン)

RESERVED SEAT TICKET (GREEN CAR)

名古屋 → 中津川
NAGOYA → NAKATSUGAWA
JAN. 16 (9:00発) (9:49着) C54
SHINANO 5 CAR. 7 SEAT. 6-B
¥***

2026.-1.16名古屋駅南東1 (3-) 00147-01
7345/0154-229781

指定券(グリーン)

RESERVED SEAT TICKET (GREEN CAR)

関西空港 → 新大阪
KANSAI AIRPORT → SHIN-OSAKA
JAN. 15 (10:44発) (11:36着) C11
HARUKA 16 CAR. 1 SEAT. 1-B
¥***

2026.-1.15関西空港駅N13(4-) 60020-01
3316/3534-032128

指定券(グリーン)

RESERVED SEAT TICKET (GREEN CAR)

塩尻 → 千種
SHIOJIRI → CHIKUSA
JAN. 16 (17:03発) (18:56着) C52
SHINANO 20 CAR. 1 SEAT. 9-A
¥***

2026.-1.16塩尻駅FN1 (2-タ) 20373-01
7345/0154-229781

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. 15 (12:48発) (13:42着) C64
HIKARI 508 CAR. 10 SEAT. 1-C S
¥***

2026.-1.15新大阪駅N81 (4-タ) 30234-01
7345/0154-229781

新幹線指定券(グリーン)

RESERVED SEAT TICKET (GREEN CAR)

名古屋 → 品川
NAGOYA → SHINAGAWA
JAN. 18 (10:43発) (12:35着) C22
HIKARI 502 CAR. 9 SEAT. 8-C
¥***

2026.-1.18(中) 金山駅MR2(3-) 10106-01
7345/0154-229781

新幹線指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
品川 → 名古屋
SHINAGAWA → NAGOYA
JAN. 18 (16:40発) (18:14着) C32
HIKARI 651 CAR. 9 SEAT. 12-0

2026.-1.18(中) 全山線MR2(3-) 40109-01
7345/0154-229781

新幹線指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
名古屋 → 岡山
NAGOYA → OKAYAMA
JAN. 19 (9:03発) (11:06着) C06
HIKARI 501 CAR. 8 SEAT. 17-C

2026.-1.18(中) 全山線MR2(3-タ) 60566-01
3316/3534-032128

指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
岡山 → 宇多津
OKAYAMA → UTAZU
JAN. 19 (11:35発) (12:07着) C31
SHIOKAZE 9 CAR. 1 SEAT. 6-A

2026.-1.18(中) 全山線MR2(3-タ) 10573-01

指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
宇多津 → 岡山
UTAZU → OKAYAMA
JAN. 19 (15:06発) (15:41着) C41
NAMPU 16 CAR. 1 SEAT. 1-B

2026.-1.18(中) 全山線MR2(3-タ) 40571-01
7345/0154-229781

新幹線指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
岡山 → 新大阪
OKAYAMA → SHIN-OSAKA
JAN. 19 (16:14発) (16:59着) C51
SAKURA 556 CAR. 6 SEAT. 10-A

2026.-1.18(中) 全山線MR2(3-タ) 50572-01
7345/0154-229781

指定券(グリーン)
RESERVED SEAT TICKET (GREEN CAR)
新大阪 → 関西空港
SHIN-OSAKA → KANSAI AIRPORT
JAN. 19 (17:28発) (18:26着) C50
HARUKA 45 CAR. 1 SEAT. 1-A

2026.-1.18(中) 全山線MR2(3-タ) 00574-01
7345/0154-229781



Dear. George. 1/20/16
Here's a little something for you.
It's not much, but
I hope you like it.

Thanks for everything.

Nozomi





HAPPY BIRTHDAY