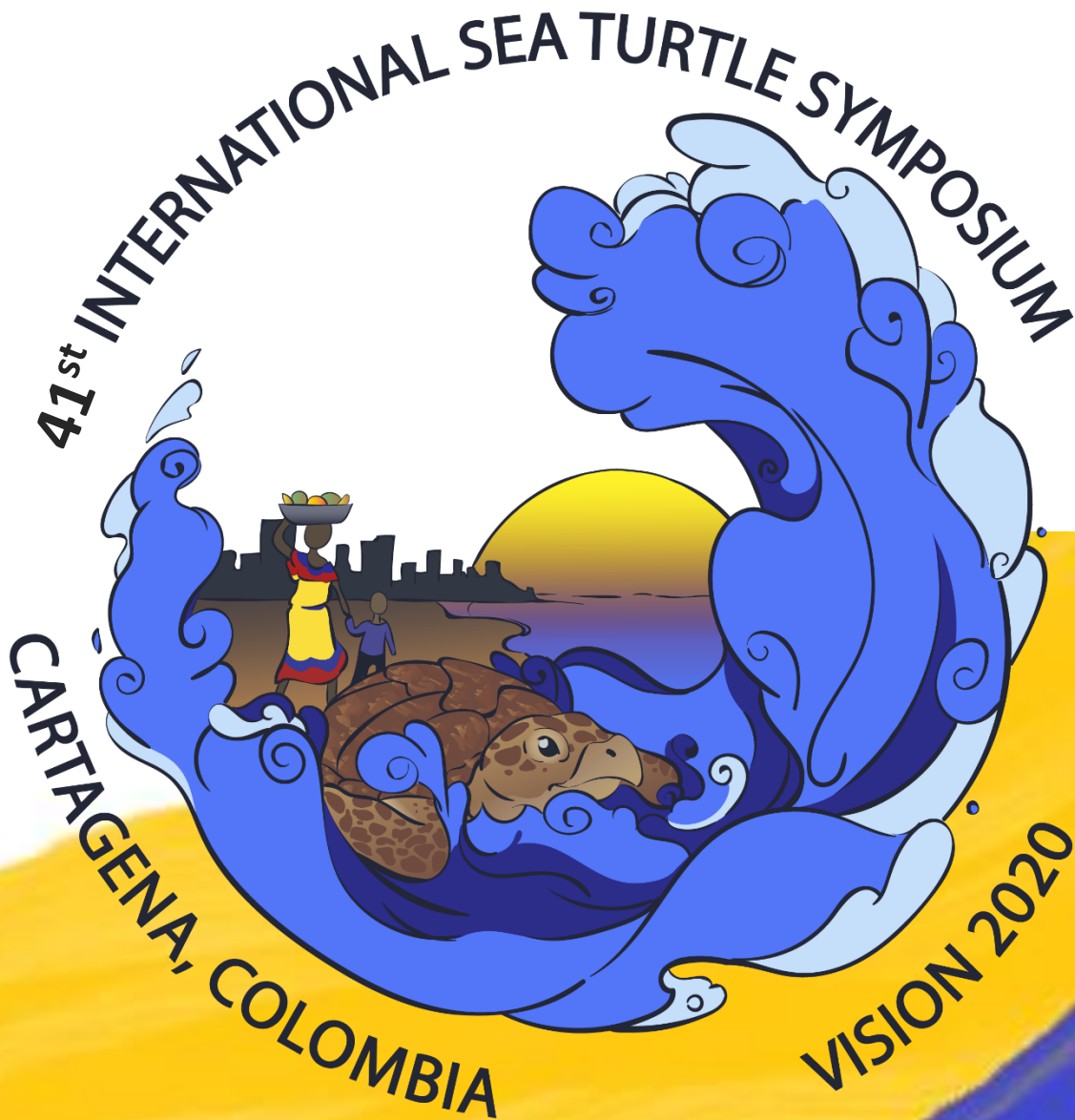


# PROGRAM



The 41<sup>st</sup> International Sea Turtle Symposium and  
the International Sea Turtle Society gratefully acknowledge  
the generous and valuable financial support from our sponsors:

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PENDOLEY ENVIRONMENTAL



**Dear ISTS attendees,**

I am delighted to welcome you to my home, Colombia, the second most diverse country in the world. Colombia is a land full of unique natural and cultural wonders. It is only in Colombia where you can lay on the beach and at the same time look up and see the majestic snowed mountains of the “Sierra Nevada de Santa Marta”, where you can visit rivers of multiple colors, or enjoy the thousands of bird species singing in the Amazon Forest. Colombia is a privileged land with shores along the Caribbean Sea and the Pacific Ocean, both of which are marine ecosystems that provide fundamental services not only to the species that inhabit them, but also to many coastal communities and inland populations.

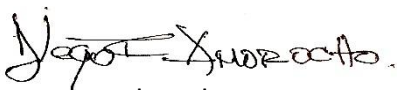
The biodiversity value of our waters is extremely high, and sea turtles play a vital role in their conservation. Sea turtles are so important that every year a group of experts meets to learn about updates on their status, research and management, and exchange knowledge and experiences, with the sole purpose of furthering the conservation of these species. Today we initiate the **41<sup>st</sup> Annual International Sea Turtle Symposium**, and I feel very proud to host participants from more than 70 countries in the beautiful city of Cartagena, a city recognized by the UNESCO as a World Heritage Site.

As president of the International Sea Turtle Society (ISTS), we wanted our motto **“*Bridging communities and technology for marine turtle conservation*”** to highlight the importance of connecting and raising awareness in people that work towards the conservation of marine resources. By doing so, together we can achieve the protection and maintenance of sustainable processes using the technology available nowadays to facilitate the tools and knowledge necessary to overcome future challenges and connect new generations to sea turtle conservation.

Sea turtles currently face multiple human and natural pressures that have led to the decrease of many populations and the degradation of critical habitats for their survival. But not all hope is lost as there are also multiple sea turtle conservation success stories. Both scenarios provide a myriad of reasons to continue fighting for sea turtle conservation in this new decade. I hope that by celebrating the **41<sup>st</sup> Annual International Sea Turtle Symposium** you will gain the opportunity to learn, create strong bonds with new and old friends, and enjoy all the color and flavor the Caribbean has to offer!

These past years, we have sailed tumultuous waters, but we have now arrived safely to port!

¡¡Bienvenidos!!



Diego Amoroch, Ph.D.

President, International Sea Turtle Society

## COVID-19 Precautions

Dear participants:

Colombia has done a great job at keeping COVID-19 cases low, and we want to respect and reciprocate this achievement. We are expecting ~700 people from all over the world who will be sharing the same space for seven days, so as a Society we should aim at doing our part to keep everyone safe and healthy and be socially responsible.

- We will require a well-fitting mask for all indoor events. The current variant is the most transmissible one yet.
- Try to distance as much as practical during indoor events.
- When possible, choose to congregate in well-ventilated or outdoor spaces.
- If you feel slightly ill with any kind of symptoms, please ISOLATE and let the symposium organizing committee know ASAP ([program@internationalseaturtlesociety.org](mailto:program@internationalseaturtlesociety.org)). QR codes will be displayed throughout the venue, where you can anonymously report your symptoms, and we will immediately send a notification to all participants.
- Mask will be available at the registration desk and other key points.
- Hand sanitizer dispensers will be placed in every room.
- Microphones will be cleaned after every talk.
- For any suspect case of COVID-19, a rapid test (if available) will be provided as well as guidance to where to go for a PCR test. In case of positive results, room isolation will be expected, and if the person happen to share a room with others, roommates who tested negative will be asked to wear a mask and keep their distance at all times.

We heartily thank you for your understanding and help in making this a great and safe Symposium for everyone.

¡Muchas gracias!

## GENERAL INFORMATION

The host hotel for the 41<sup>st</sup> Annual Symposium on Sea Turtle Biology and Conservation is:

### Hilton Cartagena Hotel

Address: Avenida Almirante Brion,  
El Laguito, Cartagena de Indias,  
130001, Colombia

Phone: +57-5-6948000

E-mail: [CTGHI\\_RM@hilton.com](mailto:CTGHI_RM@hilton.com)



The Hilton Cartagena Hotel is located in “El Laguito” Peninsula, surrounded by the Caribbean Sea on all three sides. It offers colorful views and a calm environment. The International Airport “Rafael Núñez” is only 15 minutes away (10 km/6 miles). Average taxi rates from the airport to the hotel range between \$6 USD and \$10 USD (approximately \$25,000.00 COP)

Some of the main amenities of the Hotel include two international food restaurants, “El Tinajero” and “Las Chivas”, where you can enjoy gourmet food and wood-fired pizzas. In addition, there is a great variety of fitness options, such as a full-equipped gym, four swimming pools and a wellness center.

You can also find a currency exchange office and souvenir stores.

Check-in time: 15:00

Check-out time: 12:00

If you are staying at the hotel, buffet-style breakfast and hotel-wide Wi-Fi are included. Breakfast is served from 6:30 am until 10:00 am.



## **Cartagena de Indias: The Heroic**

Cartagena de Indias, also known as the Heroic and the Walled City, is one of the most emblematic and best-preserved historical cities in America. It was declared UNESCO's World Heritage Site in 1984.

Enjoy walking, especially during sunsets, along the beach or through the cobblestone streets of the city's historical center, which is surrounded by 11 km of historical walls. Anywhere you go, you will be welcomed with friendly faces and an exciting menu of dances, rhythms, songs and delicious food. Whenever you get a chance, enjoy a "tinto" (coffee), a "Pie de Coco" (coconut pie), or some "Arroz con coco" (Coconut rice).

For touristic places to visit while in Cartagena, you can check [www.cartagenadeindias.travel](http://www.cartagenadeindias.travel)

### **Language**

The official language of Colombia is Spanish; however, English is spoken in hotels and main touristic places.

### **Time Zone**

Standard time zone is UTC/GMT -5 hours.

### **Weather**

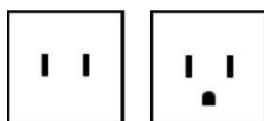
Cartagena is a Caribbean city, with an average relative humidity of 85% from December to March. Usually during these months, there is breeze and a pleasant climate. The temperature is around 30°C.

### **Insurance**

Registration fees do not include insurance of any kind. It is strongly recommended that all delegates take out their own travel and medical insurance prior to coming to ISTS41. The policy should include loss of fees/deposit through cancellation of your participation in the meeting or through cancellation of ISTS41 itself, loss of airfares for any reason, medical expenses, loss or damage to personal property, additional expenses and repatriation should travel arrangements have to be altered. Neither the ISTS President or International Sea Turtle Society will take any responsibility for any participant failing to insure. Please speak to your travel agent or airline in regard to this matter.

### **Electrical Plugs**

Voltage in Colombia is 110-120 volts and frequency 60 Hz. The image below shows a Colombian power outlet (Type A).



**Currency and Credit Cards**

The official currency of Colombia is the Colombian Peso (COP), which has denominations in bills of 1,000, 2,000, 5,000, 10,000, 20,000, 50,000, and 100,000; and coins of 50, 100, 200, 500 and 1,000.

Currently, the official exchange rate of US dollar fluctuates between 4,000 and 4,800 COP per 1 US dollar. This might change in the upcoming days due to a volatile economy.

All participants are advised to avoid changing money outside authorized sites. You can change money at the Cartagena Airport (Americambios and GloboCambio, at international arrivals, from 7:00 to 20:00) and at the Hilton Cartagena Hotel.

The main credit and debit cards (MasterCard, Visa) are accepted at most hotels, major restaurants, and shops.

**Tipping**

Tipping is a common practice in Colombia. In restaurants, the tip is usually included in the bill but its payment is voluntary. If not included, a 10% tip is customary in restaurants.

**Things To Do**

Make sure to check the ISTS41 website for special offers and tourist packages:

<https://www.ists41cartagena.org/location/things-to-do/>

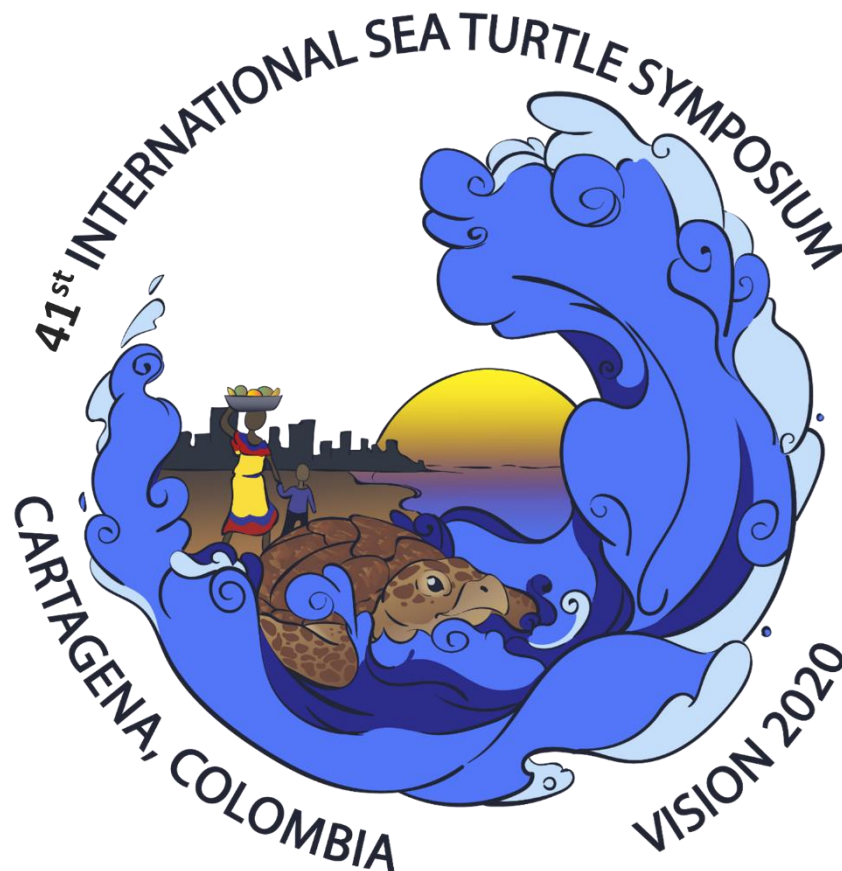


## THE 2023 SYMPOSIUM LOGO

The logo for the 41<sup>st</sup> International Sea Turtle symposium with the motto of **Vision 20/20** focuses on a new scope of what should be community-based conservation worldwide, applying technologies and field techniques for new researchers to deal with future challenges in conservation biology of sea turtles.

The 2023 logo, "*Palenqueras*, symbol of the women of Cartagena", combines conservation with culture. It incorporates the focus of hawksbill sea turtle preservation with the iconic fruit sellers, *Palenqueras*, of Cartagena. Dressed in colorful costumes and wearing a great smile, the *Palenqueras* embellish the Historical Center of Cartagena de Indias, becoming part of the landscape. The reason for their name is due to their origins, because these women, who sell delicious tropical fruits and sweets, are native to the first slave-free's people town in America, called San Basilio de Palenque, a district of Mahates- department Bolivar, which capital city is Cartagena. She is showing a child the turtle, symbolizing the importance of passing this passion for conservation on to the next generation.

This year's logo was designed by Sarah Shaver, an amateur artist from the UCF's Marine Turtle Research Group. She specializes in digital art and multimedia paintings.





# SYMPOSIUM INFORMATION

## Registration

On-site registration will be open as follows:

### **Mezzanine Bolívar Ballroom**

Saturday, 18 March	8:00 am – 5:00 pm
Sunday, 19 March	8:00 am – 5:00 pm
Monday, 20 March	8:00 am – 5:00 pm
Tuesday, 21 March	8:00 am – 5:00 pm
Wednesday, 22 March	8:00 am – 12:00 pm and 1:00 pm – 3 pm
Thursday, 23 March	8:00 am – 12:00 pm and 1:00 pm – 3 pm

## Attendee Name Badge

It is important that name badges be worn for each session. Without a name badge, you will not be admitted to the meeting rooms or poster sessions.

## Poster Display and Presentations

This year all posters will remain on display throughout the Symposium (March 20 to 23) and will be available for viewing at all times. Posters will be located in different areas of the Hotel: Cartagena de Indias meeting room and Foyer Bolivar. Posters numbers will be color-coded based on the session, so you can easily locate them in the rooms.

All posters must be set-up on **Monday, 20 March** between 2:00 pm and 5:00 pm.

All posters must be taken down and removed on **Friday, 24 March** by 1:00 pm.

There will be three scheduled “Meet the Authors” events, with one event held each day from Tuesday 21st March to Thursday 23rd March. Each event will vary by session topic, meaning presenters of posters are encouraged to be present at their posters during those events that include their corresponding session topic. Note that each session topic is included within two “Meet the Authors” events. **Students nominated for the Archie Carr Award must be present at their poster during both their corresponding “Meet the Author” events in order to be considered for the award.**

**Tuesday, 21 March from 6:25 pm to 7:25 pm.** Presenters of posters from sessions:

- Anatomy, Physiology and Health
- Conservation, Management and Policy
- Education, Outreach, and Advocacy
- In-water Biology
- Nesting Biology
- Social, Economic, and Cultural Studies

**Wednesday, 22 March from 6:25 pm to 7:25 pm.** Presenters of posters from sessions:

- Conservation, Management and Policy
- Education, Outreach, and Advocacy
- Fisheries and Threats
- Nesting Biology
- Population Biology and Monitoring

**Thursday, 23 March from 6:25 pm to 7:25 pm.** Presenters of posters from sessions:

- Anatomy, Physiology and Health
- Fisheries and Threats
- In-water Biology
- Population Biology and Monitoring
- Social, Economic, and Cultural Studies

## **Oral Presentation Uploads**

Presentations will be uploaded in the Foyer Bolívar Ballroom (at the Registration desk). There will be volunteers with a dedicated computer to upload presentations from Saturday, 18 March through Thursday, 23 March. You must have your presentation uploaded at the latest the **DAY BEFORE** your session to ensure that your PowerPoint presentation will be available for your talk.

- **Saturday, 18 March from 8 am to 5 pm:**
  - Presentations for all sessions
- **Sunday, 19 March from 8 am to 5 pm:**
  - Presentations for all sessions
- **Monday, 20 March from 8 am to 5 pm:**
  - Presentations for all sessions
  - Last chance if presenting Tuesday, 21 March
- **Tuesday, 21 March from 8 am to 5 pm:**
  - Presentations for all sessions
  - Last chance if presenting Wednesday, 22 March
- **Wednesday, 22 March from 8 am to 12 pm and from 1 pm to 3 pm:**
  - Presentations for all sessions
  - Last chance if presenting Thursday, 23 March
- **Thursday, 23 March from 8 am to 12 pm and from 1 pm to 3 pm:**
  - Presentations for all sessions
  - Last chance if presenting Friday, 24 March

## **Oral Presentations**

All oral presentations must be given in English; there will be simultaneous translation from English to Spanish available. Time slots for oral presentations will be 12 minutes each; you must complete your talk in 10 minutes to allow 2 minutes for questions. This is especially important for oral presentations made by Student Award candidates as performance on questions (your answers) is an integral part of the student presentation assessment process.

On the day of your presentation, please plan to arrive 15 minutes before the start of the session where you will present to meet with your Session Chairs. This will be your last chance to check that your presentation is running ok (but not change, update or reload your Power Point file). Session Chairs will also provide logistical instructions about the session.

## **Simultaneous Translation**

All talks will be in English. For non-English-speaking members of the audience, we will provide simultaneous translation from English to Spanish during all sessions from Tuesday 17 March to Friday 24 March. There will be approximately 350 headphones available. You will need to provide an ID to pick up a pair of headphones, and your ID will be returned to you when you return the equipment.

**IMPORTANT NOTE:** the Special Session “Community-Based Conservation Of Marine Turtles: The Next Generation” will be held in SPANISH, and simultaneous translation will be available from Spanish to English. Please plan to get your headphones ahead of the start of the session!

## **Breaks**

Morning and afternoon breaks will be set in the Foyer Bolívar Ballroom beginning Tuesday, 17 March between 10:15 am and 11:30 am (time will vary each day) and at 3:30 pm. Lunch breaks will be from 12:30 pm to 2 pm (except on Friday, 24 March, from 1 pm to 3 pm). During lunch breaks you can visit any of the restaurants and food stands in or near the hotel.

## **Hotel Food and Restaurant Options**

- **Las Chivas** is open for breakfast, lunch, and dinner. Breakfast and lunch are by buffet while dinner is restaurant-style. **Pizza Al Forno** is open for dinner on the Las Chivas Terrace overlooking the pools.
- **Society Bar**, located in the lobby, offers space for everything from casual drinks with colleagues to business or informal meetings.
- **Sunset Bar:** order a cocktail or soft drink from this friendly Cartagena bar. Let the attendants serve you on your sun lounge as you revitalize with a light snack.
- **Sunset Grill**, nestled beachside under the almond trees, grab food almost any time of day

## **Welcome Social**

The Opening Night will be held on Monday, March 20 at the Hotel Hilton Cartagena and will have two events: The **Cultural Night**, in the Bolivar Ballroom from 7 pm to 8 pm, and the **Welcome Social**, in the Gardens from 8 pm to 11 pm. Don't miss this cultural experience with local children in a "*comparsa*" (traditional carnival dance group)! The Cultural Night will have free entry, but make sure you buy your ticket for the Welcome Social on the website (from your account).

## **Video Night**

Video Night will be held on Tuesday, 21 March from 7:30 pm to 10:30 pm in the Bolivar Ballroom A. The Video Night is a great opportunity to see other sea turtle projects around the world and learn about their education, research and conservation programs, learn from other sea turtles' communication experiences, and just enjoy a night of fun and interesting sea turtle videos.

<b>Video Night Line-Up</b>				
<b>Order</b>	<b>Title (Minutes)</b>	<b>Country</b>	<b>Presenter</b>	<b>Organization</b>
<b>1</b>	It's Turtle Time! (1.6)	USA	Carol McCoy	Coastal Wildlife Club, Inc.
<b>2</b>	A Tale of Two Species (4.9)	USA	George Shillinger	Upwell
<b>3</b>	Build a Better Box for Sea Turtles (3.0)	México	Katherine Comer Santos	The Science Exchange Internship Program
<b>4</b>	The dangerous life of a leatherback (3.0)	Suriname	Soraya Wijntuin	WWF-Guianas
<b>5</b>	Leatherback turtles: A Regional Action Plan for the NWA Leatherback population (3.5)	Suriname	Soraya Wijntuin	WWF-Guianas
<b>6</b>	French Guiana Sea Turtle cartoon spot (1.7)	French Guiana	Mathilde LASFARGUE	French Biodiversity Agency (Office Français de la Biodiversité)
<b>7</b>	French Guiana Sea Turtles Network - A vision about Sea Turtles: Meeting KWATA (2.9)	French Guiana	Mathilde LASFARGUE	French Biodiversity Agency (Office Français de la Biodiversité)

## Video Night Line-Up

Order	Title (Minutes)	Country	Presenter	Organization
8	La caminata (5.9)	Costa Rica	David Godfrey, Georgina Zamora Quílez	Sea Turtle Conservancy
9	La Voz del Mar: Hope for Hawksbill Turtles (7.6)	El Salvador	Melissa Valle, Kelly Hogan	ProCosta y Wild Earth Allies
10	Turtle Conservation in Lamu, Kenya (3.7)	Kenya	Hashim Said	WWF-Kenya
11	Brigada Comunitaria Tortuguera de Puerto Morelos (2.8)	México	Erika Yazmin Hernández Ortiz	CONANP. Parque Nacional Arrecife de Puerto Morelos
12	Sea Turtle Research and Conservation in the Bijagós Archipelago (2.2)	Guinea-Bissau	Rita Patrício	MARE - ISPA, Portugal
13	Menos plástico es fantástico en Mahahual (3.0)	México	Ana Antillanca Oliva	Menos plástico es fantástico AC
14	The Banc d'Arguin in Mauritania, a major foraging ground for green turtles (3.3)	Mauritania	Rita Patrício	MARE - ISPA
15	Strengthening Sea Turtle Conservation in Colombia (4.9)	Colombia	Juan Manuel Rguez-Baron and Roderic Mast	SWOT, JUSTSEA Foundation
16	Monitoreo Tortuga Carey Cozumel (4.1)	México	Roberto Luis Herrera Pavón	El Colegio de la Frontera Sur- Chetumal
17	First Sea Turtle Research Surveys in Carriacou, Grenada (6.0)	Grenada	Paul Jobsis (or Kate Charles, or Kenrith Carter)	University of the Virgin Islands
18	Open Season Documentary Trailer (2.3)	Grenada	Dr Kenrith Carter & Kate Charles	Ocean Spirits Inc.
19	Karumbé en TIKTOK: Los videos más virales sacando epibiota (5.0)	Uruguay	Alejandro Fallabrino	Karumbé
20	Primera eclosión de tortuga Laúd en Ecuador (4.8)	Ecuador	Kerly Briones	Fundación Contamos Contigo Ecuador
21	Fishermen "the cornerstone of marine turtle conservation" (2.2)	Tunisia	Hamed Mallat	Sfax Faculty of Sciences
22	Tortugas, poesía al mar (2.4)	Brasil, Venezuela, Costa Rica	Gilberto Borges Guzman	Fundación AVISTA, AMVT, ProOcean

Video Night Line-Up				
Order	Title (Minutes)	Country	Presenter	Organization
23	Cayman Turtle Centre's Conservation Efforts (5.0)	Cayman Islands	Vandanaa Baboolal	Cayman Turtle Conservation and Education Centre
24	Nelson Mandela University Turtle Trotters (3.6)	South Africa	Amanda Robbins	Nelson Mandela University
25	CretaceusPark (3.2)	Colombia	Diana del Pilar Ramirez Acosta	Fundación Tourtugas
26	Campamento ASUPMATOMA:1995-2022 (7.1)	México	Rene Pinal y/o Abilene Colin	ASUPMATOMA A.C.
27	Proyecto de Conservación de Tortugas Marinas en Playa La Barqueta, Provincia de Chiriquí (4.8)	Panamá	Juan Blas (En representación Cristina Ordoñez)	Universidad Autónoma de Chiriquí
28	Turtle Scott (4.2)	Panamá	Scott Crystal	Save The Turtles Playa Venao
29	Viviendo con pasión en San Cristobal (2.3)	México	Zulema Guevara Oviedo	Rancho San Cristobal

### **Speed Chatting with Turtle Experts**

This is a fundraising function that provides a way for symposium newcomers and veterans alike to spend time chatting with an all-star gathering of sea turtle aficionados and experts. It is intended to be an “ice-breaker” for getting to know people you’ve always wanted to meet but have never approached. Speed Chatting sign-up will be fully virtual this year and is on a first-come, first-serve basis. You can sign up for these events through an online google sign-up document (watch out for an email from the Student Committee), or visit the Student Committee Desk at the Symposium to learn more.

Speed chatting takes place on Wednesday, 22 March, from 7:30 pm to 9:30 pm in the Bolivar Ballroom C-D in conjunction with the following events:

- **Turtle Trading Post:** This event is open to students, travel grant recipients, NGOs, and groups in countries experiencing economic, environmental, and/or humanitarian hardship. The idea is for researchers with unneeded, gently-used research gear to donate it to those who can give it a second life. Donations will be accepted until 3 pm on Wednesday, 22 March.
- **Student Social Mixer:** Students, this is a chance for you to mingle with your compatriots away from those pesky advisors! Drinks available at the hotel bars.

## **Silent and Live Auctions**

Auction donation items should be brought to the Kalamary room between Saturday, 18 March and Monday, 20 March, from 9:00 am to 5:00 pm. Silent Auction items will be open for viewing and bidding beginning Tuesday, 21 March from 9:00 am to 5:00 pm in the Kalamary room. The deadline for silent auction bids is 4:00 pm, Thursday, 23 March. Check in frequently to ensure your bid remains the highest bid for that very special object!

The Live Auction on Thursday evening, 23 March from 8:00 pm to 12:00 am at the Bolivar Ballroom, is a casual event with lots of fun, cheer, and competition! Veteran bidders compete with fresh hands and try to outbid each other for a variety of unique donated items, many of which are rare treasures. Proceeds from both the Silent and Live Auctions go toward travel grants for the next symposium. There will be a cash bar on-site for refreshments (alcoholic and non-alcoholic).

## **Art Mural**

The 41<sup>st</sup> International Sea Turtle Symposium has arrived for the first time in Colombia, and for the second time in South America. This is a unique opportunity that has filled all Colombians, and Latinos in general, with great joy and pride to be able to celebrate our beloved sea turtles on our land.

With the motto of the symposium "Bridging communities and technology for marine turtle conservation", and as part of the legacy that the symposium wants to leave in the city of Cartagena, we thought of an artistic work that promotes the importance of sea turtles for ecosystems and the important role communities play in their conservation.

For this great mission, The Turtleman Foundation, Artesanias Tortugas Sin Fronteras, and the Hilton Cartagena Hotel joined our team as we commissioned the artist Akilles to capture our legacy in a beautiful mural on the Mezzanine on the 2nd floor of the Hilton Cartagena (Avenida Almirante Brion, El Laguito, Cartagena de Indias, Province of Cartagena, Bolívar)

For the duration of the symposium, you will be able to see Akilles paint from start to finish a very beautiful hawksbill turtle (*Eretmochelys imbricata*) in its environment.

The artist will reserve a space on the mural so that the symposium participants can also leave their mark as a handprint. You can get a ticket at the registration desk for this, with the mural open for marking on Wednesday 22nd and Thursday 23rd between 3pm and 5pm. All funds raised will go to the Travel Grant Program to support students and participants from underrepresented countries.





## **Awards Ceremony and Farewell Banquet**

The **Awards Ceremony** will take place in the Bolivar Ballroom A-F on Friday, 24 March at 7 pm. Come and show your support to award recipients and bid farewell to sea turtle friends, old and new, until you meet again in 2024. After the ceremony ends, the **Farewell Banquet** will start in the Bolivar Ballroom C-D-B from 8 pm to 9:30 pm. You may purchase tickets for the Banquet through the website (from your account), or on site at the registration desk, until Monday, **20 March at NOON**. At this time, we must provide the hotel with a final head count. Finally, join us at the **Closing Party** from 9:30 pm to 11 pm in the Bolivar Ballroom A-F, to celebrate another successful ISTS symposium by taking a spin on the dance floor after dinner.

## 2023 Exhibitors and Vendors

Located in the Guacamayo meeting room, the Exhibitor/Vendor Venue will be the hub of the general session. Attendees are welcome to navigate the venue anytime over the following days and hours:

- Tuesday, 21 March from 8:30 am to 7:15 pm
- Wednesday, 22 March from 8:30 am to 7:15 pm
- Thursday, 23 March from 8:30 am to 7:15 pm
- Friday, 24 March from 8:30 am to 1:00 pm

**WWF:** WWF is an independent conservation organization, with over 30 million supporters and a global network active in over 100 countries. WWF's mission is to stop the degradation of the Earth's natural environment and to build a future in which humans live in harmony with nature, by conserving the world's biological diversity, ensuring that the use of renewable natural resources is sustainable, and promoting the reduction of pollution and wasteful consumption. Visit [www.panda.org/news](http://www.panda.org/news) for the latest news and media resources and follow us on Twitter @[WWF media](https://twitter.com/WWF_media)

**ASUPMATOMA A.C.:** s a non-profit organization that started out in environmental protection in Los Cabos, B.C.S., México in the '90s. The organization was formalized in 1995 and founded the pioneer turtle camp on the Baja California Peninsula. Our efforts focus principally on the protection, conservation, and investigation of marine turtles with an emphasis on community outreach and environmental education. We protect three species of sea turtles: olive ridley, leatherback, and black turtle in 18 km of beach on the Pacific side of Cabo San Lucas"

**AYOTZINTLI AC:** a Mexican NGO that has been working with different communities in Mexico for 12 years, not only supporting marine turtle conservation projects, but also developing productive projects such as the creation of coconut handicrafts, elaboration of turtle and blanket turtles; Environmental education projects with innovative tools such as photography, theater and circus: creation of various volunteer programs to support projects economically and with human material and creation of different training spaces for university students, professionals and people from the communities in new methodologies for sea turtle conservation.

**CLS:** CLS, a unique provider of ARGOS satellite telemetry services for environmental applications and the first satellite system used by biologists for wildlife animal tracking, offers a full range of ARGOS products and services. With [Kinéis](#), a 25 nanosatellite constellation carrying the next ARGOS instrument, CLS is preparing the future of telemetry. Come and discover the wide range of solutions currently available for wildlife tracking.

**CREMA:** The Rescue Center for Endangered Marine Species (CREMA) is a Costa Rican NGO created in 2014. The main objective of this NGO is to protect, conserve and promote adequate

ecosystem management of marine resources. CREMA focuses part of its work and research on the conservation of sea turtles and sharks. In addition, acts as an advisor in national and international environmental decision-making; thus, achieving changes in the laws and regulations for the protection of marine species in Costa Rica. Currently, the NGO has several conservation projects in the Pacific of Costa Rica: monitoring of sea turtle nesting beaches and acoustic tagging projects in water for hawksbill turtles, manta rays, and several species of sharks. In addition, the organization works with artisanal fishermen, thus promoting good fishing practices in the country.

**Fabien Cousteau Ocean Learning Center:** The FCOLC is a 501(c)(3) established in 2016 by Fabien Cousteau, the first grandchild of Jacques-Yves Cousteau. Our mission is dedicated to protecting and preserving our planet's waters, coastal areas, and marine habitats by facilitating education, research, collaboration, advocacy, and empowerment. Through our programs, we collaborate with our partners to develop educational initiatives, conservation efforts and marine research projects that will protect the earth's waters while connecting the world to our oceans. Our programming includes sea turtle conservation and women empowerment in Nicaragua, educational activities and curriculum for ocean conservation, and marine ecosystem restoration and awareness in Florida. For more information, visit: <https://www.fabiencousteauolc.org/>

**Fundación Coriácea:** We are a Colombian NGO, created 15 years ago, that contributes to the conservation of marine, freshwater and terrestrial turtles through research, scientific communication and environmental education. We have worked together with other organizations and with local communities in the Caribbean and Pacific regions. We also advise university students, and welcome volunteers who want to support and learn on the different fronts of the Foundation. Currently, we develop environmental education and scientific communication initiatives that connect people with marine turtles, such as the Club de Revista (Scientific Journal Club). Because conservation is only possible through collaborative work, we are very interested in establishing alliances with people and entities such as the Coastal Systems Research Group (Sisco), with which we are presenting at the Symposium. Since 2005, Sisco has been developing applied and training research, as well as technological developments focused on coastal socio-natural systems. Recently, they have focused their efforts on scientific tourism, conservation of remote beaches, and monitoring of environmental quality on urban beaches. More information at [www.fundacioncoriacea.org](http://www.fundacioncoriacea.org) and [www.sistemascosteros.org](http://www.sistemascosteros.org)

**La Tortuga Laúd:** A book about the story of a beautiful leatherback turtle, the largest species of marine turtle in the world, that lives in the Venezuelan sea. Author: María Fernanda Bosque.

**LAST:** "LAST (Latin American Sea Turtles) is a NGO, working together to make a change in sea turtle conservation. We are member of WIDECAS, an international scientific network with country coordinators resident in more than 40 countries and territories of the Wider Caribbean Region. Our field teams are integrated by local assistants with unparalleled experience in sea turtle research and conservation, people with vast experience working with volunteers and environmental enthusiasts developing creative strategies to avoid the extinction of these

species. In our effort to create environments where humans and sea turtles can live together in balance, we have developed different projects. A group of conservation and research programs on the both coasts of Costa Rica. We have also generated a voluntourism project to create alternative livelihoods by training local partners on how to receive volunteers and tourism in community homestays. This increases their local opportunities to have a better income and reduces the pressure over the turtles, their eggs and their critical habitats."

**Lotek:** Founded in 1984, Lotek is a world leader in the design and manufacture of fish and wildlife monitoring systems. Our innovative and internationally recognized radio, acoustic, archival and satellite monitoring solutions allow researchers to track animals, birds and fish of almost any size, in almost any environment. Our craft is biotelemetry technology; our passion is the environment. We are committed to providing innovative solutions for a sustainable future. Whether an animal moves through a terrestrial, freshwater, marine or avian habitat, Lotek has a system to track it.

**Oceanic Society:** The State of the World's Sea Turtles (SWOT) Program is a global effort that harnesses the power of sea turtles to engage the public in ocean conservation action. Over the last 18 years, SWOT has developed the first global database of sea turtle biogeography, built a vast global network of partners, and produced a range of high-quality, science-based communications tools that improve our collective knowledge of sea turtle status and distribution, educate and inform the public, and support field-based sea turtle conservation efforts worldwide. At the center of the SWOT Program is the award-winning, annually published State of the World's Sea Turtles (SWOT) Report that sources and shares important research findings and success stories in a format that is easy to read, practical, and widely distributed. SWOT Report expands the accessibility of poorly-known, unpublished, and "paywalled" science to a broad audience and showcased the work of expert writers, photographers, and cartographers to develop stories using approachable writing, detailed illustration, and beautiful images. Stop by the SWOT booth to pick up a free copy of the latest SWOT Report!

**SEE TURTLES:** SEE Turtles a non-profit organization that protects sea turtles through conservation travel and volunteer tours, our Billion Baby Turtles, Sea Turtles & Plastic, and Too Rare To Wear programs, Sea Turtle Week, our education programs, and by promoting inclusivity in the sea turtle community. Our award-winning programs help save sea turtle hatchlings on important nesting beaches around the world, recycle plastic from turtle habitats, work with the tourism industry to end the turtleshell trade, and educate students and travelers about how to help save sea turtles. Our table will have turtle-themed products for sale as well as educational materials from our Too Rare To Wear program and a sign up for our annual Sea Turtle Week campaign.

**The Turtleman Foundation:** Our cooperative program with various organizations has allowed us to help save sea turtles along our coasts and do our part in ocean conservation. Being known for the marble turtles, the "El Hombre Tortuga" Foundation was born, through which every year we work to support conservation groups such as:

- Programa de Conservación de Tortugas y Mamíferos Marinos - Mundo Marino UTADEO - Colombia
- Fundación Contamos Contigo - Ecuador
- Fundación Tourtugas - Colombia
- Fundación Coriácea - Colombia
- Fundación Museo Del Mar - Colombia
- El Centro de Tortugas Georgia Sea - USA
- Centro de Conservación de Tortugas Marinas Navarra Beach - USA
- Florida Leatherbacks Inc - USA

**Universidad del Sinú:** The main objective of the Marine Biology program at the University of Sinú is to train Marine Biologists with skills to address the study of marine organisms and processes in order to solve problems related to biodiversity and the production of goods and services linked to marine environments. Likewise, it focuses in the design of policies in the area of Marine Biology relevant and applicable to the Colombian context in particular, but taking into account current globalized conditions. The program's efforts are aimed at generating top-level human resources that can successfully face the challenges of a career in the area of marine-fishery resource management and in biotechnological processes to encourage entrepreneurship and the formulation of business plans for the development of new companies.

**Wildlife Computers:** Wildlife Computers is the leading provider of advanced wildlife telemetry solutions. Propelled by its mission to promote the sustainable use of our global environment, Wildlife Computers creates the most innovative marine technologies that empower data-driven decisions. Wildlife Computers provides unique consultative services, an unsurpassed commitment to quality, and impeccable customer service to get you the data you need when you need it. Learn more at <https://wildlifecomputers.com/>

## 41<sup>st</sup> ANNUAL SEA TURTLE SYMPOSIUM COMMITTEE CHAIRS AND KEY ORGANIZERS

<b>President</b>	Diego Amorocho
<b>Past President</b>	Kellie Pendoley
<b>President-Elect</b>	Stephen Dunbar
<b>Secretary</b>	Manjula Tiwari
<b>Treasurer / Book keeper</b>	Nicholas Blume / Terry Meyer
<b>Logistics Coordinators</b>	Fanny Suarez, Ana María Moncada
<b>Program Coordinator</b>	Natalie Wildermann
<b>Program Chairs</b>	Juan Manuel Rguez-Baron, Matt Ware
<b>Poster Session Chairs</b>	Gabriela Vélez-Rubio
<b>Registrars</b>	Nicholas Blume, Natalia Teryda, Laura Prosdoscimi
<b>Webmaster / I.T. Liaison</b>	Paul Whittock
<b>Fundraising Officer</b>	Ingrid Yañez
<b>Nominations Committee</b>	Mustapha Aksissou (Chair), Ryan Welsh, Imed Jribi, Nicholas Pilcher, Jeanette Wyneken
<b>Vendor Chair</b>	Juan S. Ayala
<b>Workshops Committee</b>	Joe Pfaller, Daphne Wrobel Goldberg, Bia Dias
<b>ISTS Career Awards Committee</b>	Mariluz Parga (Chair), Michael Salmon, Frank Paladino, Ana Liria Loza, Jesús Tomas
<b>Grassroots Conservation Award Committee</b>	Ingrid Yañez, Manjula Tiwari, Angela Formia, Alejandro Fallabrino
<b>Student Awards Committee</b>	Andrea Phillott
<b>Silent and Live Auction Team</b>	Marina Zucchini, Roderic Mast, Ashleigh Bandimere, Patti Villegas, Jenn Homcy, Cindy Vargas
<b>Volunteer Coordinator</b>	Daniela Rojas-Cañizales
<b>Student Committee</b>	Gabriela Arango, Renato Bruno, Matthew Ramirez, Janie Reavis, Kirsty Scott, Lyndsey Tanabe
<b>Video Night Team</b>	Jose Urteaga, Jimena Gutierrez, Ani Henriquez
<b>Proceedings Compilers</b>	Gabriela Vélez-Rubio, Juan M. Rguez-Baron, Jeffrey Seminoff

## 41<sup>st</sup> ANNUAL SEA TURTLE SYMPOSIUM COMMITTEE CHAIRS AND KEY ORGANIZERS

<b>Regional Travel Grant Chairs</b>	Alexander Gaos (Chair), Angela Formia (Africa), Karen Eckert (Caribbean), Emma Harrison (Mexico, Central America & Caribbean), Alan Rees (North Africa & Middle East), Aliko Panagopoulou (Europe), Alejandro Fallabrino (South America), Andrea Phillott (South Asia), Maggie Muurmans (Southeast Asia/Pacific), Kelly Stewart (USA & Canada)
<b>Regional Meetings and Reunion</b>	<p><b>Africa:</b> Manjula Tiwari, Angela Formia, Andrews Aguekumhene, Jacques Fretey</p> <p><b>Indian Ocean &amp; Southeast Asia:</b> Lalith Ekanayake, Zahirul Islam</p> <p><b>RETOMALA:</b> Raúl García, Jimena Gutiérrez-Lince, Daniela Rojas-Cañizales, Juan Manuel Rguez-Baron, Héctor Barrios-Garrido</p> <p><b>Mediterranean Reunion:</b> Sandra Hochscheid, Imed Jribi, Yakup Kaska, Aliko Panagopoulou</p> <p><b>Pacific Islands/Oceania:</b> Irene Kelly</p> <p><b>East Asia:</b> Connie Ka-yan NG, Takashi Ishihara</p>
<b>MTSG Group Meeting</b>	Roderic Mast, Paolo Casale
<b>Sea Turtle Trading Post</b>	Kate Mansfield
<b>Communications and Social Media</b>	Ingrid Yañez, Laura Prosdocimi, Paul Whittock, Marcos Cossio
<b>Workshop Organizers</b>	See program below (ISTS Workshops)
<b>Session Chairs</b>	See program below (chairs listed for each oral session block)



Saturday, March 18	Sunday, March 19	Monday, March 20	Tuesday, March 21	Wednesday, March 22	Thursday, March 23	Friday, March 24
On-site Registration 8 am - 5 pm Foyer Bolívar Ballroom	On-site Registration 8 am - 5 pm Foyer Bolívar Ballroom	On-site Registration 8 am - 5 pm Foyer Bolívar Ballroom	On-site Registration 8 am - 5 pm Foyer Bolívar Ballroom	On-site Registration 8 am - 12 pm / 1 pm - 3 pm Foyer Bolívar Ballroom	On-site Registration 8 am - 12 pm / 1 pm - 3 pm Foyer Bolívar Ballroom	
Trading Post: Donations drop-off 8 am - 5 pm Foyer Bolívar Ballroom	Trading Post: Donations drop-off 8 am - 5 pm Foyer Bolívar Ballroom	Trading Post: Donations drop-off 8 am - 5 pm Foyer Bolívar Ballroom	Trading Post: Donations drop-off 8 am - 5 pm Foyer Bolívar Ballroom	Trading Post: Donations drop-off 8 am - 12 pm / 1 pm - 3 pm Foyer Bolívar Ballroom		
Oral Presentation Upload 8 am - 5 pm Foyer Bolívar Ballroom	Oral Presentation Upload 8 am - 5 pm Foyer Bolívar Ballroom	Oral Presentation Upload (last chance to upload presentations for Tuesday's talks) 8 am - 5 pm Foyer Bolívar Ballroom	Oral Presentation Upload (last chance to upload presentations for Wednesday's talks) 8 am - 5 pm Foyer Bolívar Ballroom	Oral Presentation Upload (last chance to upload presentations for Thursday's talks) 8 am - 12 pm / 1 pm - 3 pm Foyer Bolívar Ballroom	Oral Presentation Upload (last chance to upload presentations for Friday's talks) 8 am - 12 pm / 1 pm - 3 pm Foyer Bolívar Ballroom	
Silent Auction Items drop-off 9 am - 5 pm Kalamary room I	Silent Auction Items drop-off 9 am - 5 pm Kalamary room I	Silent Auction Items drop-off 9 am - 5 pm Kalamary room I	Silent Auction 9 am - 5 pm Kalamary room I	Silent Auction 9 am - 5 pm Kalamary room I	Silent Auction 9 am - 4 pm Kalamary room	
		Exhibitors/Vendors Setup 6:00 pm Guacamayo meeting room	Exhibitors/Vendors 8:30 am - 7:15 pm Guacamayo meeting room	Exhibitors/Vendors 8:30 am - 7:15 pm Guacamayo meeting room	Exhibitors/Vendors 8:30 am - 7:15 pm Guacamayo meeting room	Exhibitors/Vendors Close 1 pm Guacamayo meeting room
		Poster setup 2 pm - 5 pm Cartagena de Indias meeting room and Foyer Bolívar	Poster Display All day Cartagena de Indias meeting room and Foyer Bolívar	Poster Display All day Cartagena de Indias meeting room and Foyer Bolívar	Poster Display All day Cartagena de Indias meeting room and Foyer Bolívar	Posters Taken Down by 1 pm Cartagena de Indias meeting room and Foyer Bolívar
Workshop 11: Future Tech for Large-scale Monitoring 9 am - 1 pm Bolívar Ballroom A	Workshop 7: Applications of Sea Turtle Reference Genomes 9 am - 1 pm Bolívar Ballroom A	Workshop 1: A Strategy Framework on the Development of Solutions to Address Trafficking and Direct Take of Sea Turtles 8:00 am - 5:30 pm Bolívar Ballroom A	Opening Remarks Dr. Diego Amorcho 8.30 - 9.00 am Keynote Address Ximena Rojas Giraldo (DECRA) 9.00 - 9.15 am Dr. Hector Barrios-Garrido 9.15 - 9.45 am Brad Nahill 9.45 - 10.15 am Bolívar Ballroom C-D-B-E	Population Biology and Monitoring II 8.30 am - 10.20 am Bolívar Ballroom A-F	In-water Biology II 8.30 am - 10.20 am Bolívar Ballroom A-F	Population Biology and Monitoring IV 9 am - 11 am Bolívar Ballroom A-F
Workshop 4: Reducing Bycatch 9 am - 6 pm Bolívar Ballroom F	Workshop 2: Drones and Turtles 9 am - 1 pm Bolívar Ballroom F	Workshop 9: Male Sea Turtles: Current Global Conservation and Research Efforts 8:00 am - 12:00 pm Bolívar Ballroom D		Fisheries and Threats I 8.30 am - 10.20 am Bolívar Ballroom C-D	Anatomy, Physiology and Health I 8.30 am - 10.20 am Bolívar Ballroom C-D	Conservation, Management and Policy III 9 am - 11 am Bolívar Ballroom C-D
Workshop 12: Strengthening Community-based Environmental Education 9 am - 6 pm Bolívar Ballroom B	Workshop 5: Designing Behavior Change Campaigns for Sea Turtle Conservation 9 am - 1 pm Bolívar Ballroom B	Workshop 3: Sea Turtle Medicine and Rehab 1:30 pm - 5:30 pm Bolívar Ballroom B	MORNING BREAK 10.15 - 10.45 am Foyer Bolívar	MORNING BREAK 10.20 am - 10.50 am Foyer Bolívar	MORNING BREAK 10.20 am - 10.50 am Foyer Bolívar	MORNING BREAK 11 am - 11.30 am Foyer Bolívar
Workshop 10: 4th Workshop on Plastic Pollution and Sea Turtles 2 pm - 5 pm Bolívar Ballroom C	Workshop 8: Student Committee 2 pm - 6 pm Bolívar Ballroom C	Workshop 6: The Climate-threats matrix 1:30 pm - 5:30 pm Bolívar Ballroom C	Special Session (Illegal Trade) 10.45 am - 12.15 pm Bolívar Ballroom C-D-B-E	Nesting Biology III 10.50 am - 12.28 pm Bolívar Ballroom A-F	In-water Biology III 10.50 am - 12.40 pm Bolívar Ballroom A-F	Keynote Address Dr. Rod Mast 11.30 - 12.00 am Dr. Luis G. Naranjo 12.00 - 12.30 pm Closing Remarks Dr. Diego Amorcho 12.30 - 1 pm Bolívar Ballroom C-D-B-E
	Regional Meeting: RETOMALA 9 am - 6 pm Bolívar Ballroom D	Regional Meeting: Africa 8:00 am - 12 pm Bolívar Ballroom C		Fisheries and Threats II 10.50 am - 12.28 pm Bolívar Ballroom C-D	Education, Advocacy and Outreach 10.50 am - 12.28 pm Bolívar Ballroom C-D	
	Regional Meeting: Oceania 2 pm - 6 pm Bolívar Ballroom A	Regional Meeting: IOSEA 1:30 pm - 5:30 pm Bolívar Ballroom D	LUNCH BREAK 12.15 pm - 2 pm	LUNCH BREAK 12.30 pm - 2 pm	LUNCH BREAK 12.30 pm - 2 pm	LUNCH BREAK 1 pm - 2:30 pm
	Special Meeting: WIDECAS 8 am - 5 pm Guacamayo meeting room	Regional Meeting: Mediterranean 8:00 am - 12 pm Bolívar Ballroom B	Social, Economic and Cultural Studies 2 pm - 3:26 pm Bolívar Ballroom A-F	In-water Biology I 2 pm - 3:26 pm Bolívar Ballroom A-F	In-water Biology IV 2 pm - 3:26 pm Bolívar Ballroom A-F	Student Judges Lunch 1 pm - 3 pm Chivas Restaurant
		Special Meeting: Laud OPO Network 8:00 am - 5:30 pm Bolívar Ballroom F	Nesting Biology I 2 pm - 3:26 pm Bolívar Ballroom C-D	Conservation, Management and Policy I 2 pm - 3:26 pm Bolívar Ballroom C-D	Fisheries and Threats III 2 pm - 3:26 pm Bolívar Ballroom C-D	Mural Unveiling Ceremony 2:30 pm - 3 pm Mezzanine 2nd Floor
		Special Meeting: WIDECAS 8 am - 5 pm Guacamayo meeting room	AFTERNOON BREAK 3.30 pm - 4.00 pm Foyer Bolívar	AFTERNOON BREAK 3.30 pm - 4.00 pm Foyer Bolívar	AFTERNOON BREAK 3.30 pm - 4.00 pm Foyer Bolívar	ISTS Business Plenary 3 pm - 5 pm Bolívar Ballroom C-D-B-E
	Special Meeting (by invitation only): Planning meeting Colombian Ministry of Environment 9 am - 12.30 pm Kalamary II		Population Biology and Monitoring I 4 pm - 5.02 pm Bolívar Ballroom A-F	Population Biology and Monitoring III 4 pm - 5.02 pm Bolívar Ballroom A-F	Anatomy, Physiology and Health II 4 pm - 5.02 pm Bolívar Ballroom A-F	Awards Ceremony 7 pm - 8 pm Bolívar Ballroom A-F
	Volunteer meeting 6 pm Kiosko La Marina		Nesting Biology II 4 pm - 5.02 pm Bolívar Ballroom C-D	Conservation, Management and Policy II 4 pm - 5.02 pm Bolívar Ballroom C-D	Fisheries and Threats IV 4 pm - 5.02 pm Bolívar Ballroom C-D	Farewell Banquet 8 pm - 9:30 pm Bolívar Ballroom C-D-B
	Cultural Night 7 pm - 8 pm Bolívar Ballroom C-D-B-E		SHORT BREAK 5.05 pm - 5.20 pm	SHORT BREAK 5.05 pm - 5.20 pm	SHORT BREAK 5.05 pm - 5.20 pm	Closing Party 9:30 pm - 11 pm Bolívar Ballroom A-F
	Welcome Social 8 pm - 11 pm Gardens ("Jardines")		Special Session (Technology) 5.20 pm - 6.20 pm Bolívar Ballroom C-D-B-E	Special Session (Hatcheries and Ecotourism) 5.20 pm - 6.20 pm Bolívar Ballroom C-D-B-E	Special Session (Community) 5.20 pm - 6.20 pm Bolívar Ballroom C-D-B-E	
				Art Mural Handprints 3 pm - 5 pm Mezzanine 2nd Floor	Art Mural Handprints 3 pm - 5 pm Mezzanine 2nd Floor	
			Poster Session (Meet the Authors) 6.25 pm - 7.25 pm Cartagena de Indias meeting room and Foyer Bolívar	Poster Session (Meet the Authors) 6.25 pm - 7.25 pm Cartagena de Indias meeting room and Foyer Bolívar	Poster Session (Meet the Authors) 6.25 pm - 7.25 pm Cartagena de Indias meeting room and Foyer Bolívar	
			Board of Directors Meeting 6 pm - 11 pm Sala VIP Tinajero	MTSG meeting 6 pm - 8 pm Bolívar Ballroom AF	Travel Grant Chairs Lunch 6 pm - 2 pm Chivas restaurant	
			Video Night 7:30 pm - 10:30 pm Bolívar Ballroom AF	Student Social Mixer 7:30 pm - 10:30 pm Speed Chatting w/Experts 7:30 pm - 9:30 pm Turtle Trading Post 7:30 pm - 9:30 pm Bolívar Ballroom CD	Live Auction 8 pm - 12 am Bolívar Ballroom C-D-B-E	



**Interactive Online**  
**Schedule**

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# REGIONAL AND SPECIAL MEETINGS

## SUNDAY, 19 March

### Regional Meeting: RETOMALA

**Room and Time:** Bolivar Ballroom D, 9 am – 6 pm

### Regional Meeting: Oceania

**Room and Time:** Bolivar Ballroom A, 2 pm – 6 pm

### Special Meeting: WIDECAST

**Room and Time:** Guacamayo meeting room, 8 am – 5 pm

## MONDAY, 20 March

### Regional Meeting: Africa

**Room and Time:** Bolivar Ballroom C, 8 am – 12 pm

### Regional Meeting: IOSEA

**Room and Time:** Bolivar Ballroom D, 1:30 pm – 5:30 pm

### Regional Meeting: Mediterranean Reunion

**Room and Time:** Bolivar Ballroom B, 8 am – 12 pm

### Special Meeting: Laud OPO Network

**Room and Time:** Bolivar Ballroom F, 8 am – 5:30 pm

### Special Meeting: WIDECAST

**Room and Time:** Guacamayo meeting room, 8 am – 5 pm

### Special Meeting: Planning meeting Colombian Ministry of Environment

**Room and Time:** Kalamary II, 9 am – 12:30 pm

# WORKSHOPS

*Note: Full descriptions of workshops are on the [symposium website](#).*

## SATURDAY, 18 March

### **Workshop 11: Future Technologies for Large-scale Monitoring of Marine Turtle Nesting Populations**

**Organizers:** Liliana Poggio Colman and Ana Rita Patrício

**Room and Time:** Bolivar Ballroom A, 9 am – 1 pm

### **Workshop 4: Reducing Bycatch by Building Capacity for Collaborative Research among Fishers and Conservationists**

**Organizers:** Michel Anthony Nalovic & Juan Manuel Rguez-Baron

**Room and Time:** Bolivar Ballroom F, 9 am – 6 pm

### **Workshop 12: Strengthening Community-based Environmental Education through efficient use of Technological Communication Tools**

**Organizers:** Amalia María Cano-Castaño, Anjelika Solé Abdo Abou Issa, Antonio Trujillo, Diana del Pilar Ramírez Acosta, and Georgina Zamora

**Room and Time:** Bolivar Ballroom B, 9 am – 6 pm

### **Workshop 10: 4th Workshop on Plastic Pollution and Sea Turtles**

**Organizers:** Daniel González-Paredes. Co-organizers: Alejandro Fallabrino, Andrés Estrades, Mark Hamann, Brendan Godley, and Emily Duncan

**Room and Time:** Bolivar Ballroom C, 2 pm – 6 pm

# WORKSHOPS

*Note: Full descriptions of workshops are on the [symposium website](#).*

## SUNDAY, 19 March

### **Workshop 7: Applications of Sea Turtle Reference Genomes for Research and Conservation Management**

**Organizers:** Blair Bentley, Camila Mazzoni, and Lisa Komoroske

**Room and Time:** Bolivar Ballroom A, 9 am – 1 pm

### **Workshop 2: 4th ISTS Drones and Turtles Workshop**

**Organizers:** Alan Rees, Ray Cathy, Thane Wibbels, Nerine Constant, Naty Teryda

**Room and Time:** Bolivar Ballroom F, 9 am – 1 pm

### **Workshop 5: Designing Behavior Change Campaigns for Sea Turtle Conservation**

**Organizer:** Roderic Mast, Rachel Smith, Brian Hutchinson, and Ashleigh Bandimere

**Room and Time:** Bolivar Ballroom B, 9 am – 1 pm

### **Workshop 8: Student Committee Workshop: Career Paths and Key Approaches to Prepare and Succeed in the Sea Turtle World**

**Organizers:** Renato Saragoca Bruno, Matthew Ramirez, and Gabriela Arango

**Room and Time:** Bolivar Ballroom C, 2 pm – 6 pm

# WORKSHOPS

*Note: Full descriptions of workshops are on the [symposium website](#).*

## MONDAY, 20 March

**Workshop 1: A strategy framework on the development of solutions to address the key threat of sea turtle trafficking and direct take in the Caribbean, Central and South America**

**Organizers:** Ann Marie Lauritsen

**Room and Time:** Bolivar Ballroom A, 8 am – 5:30 pm

**Workshop 9: Male Sea Turtles: Current Global Conservation and Research Efforts**

**Organizers:** ProOcean Marine Research Conservation and Innovation & Archie Center for Sea Turtle Research

**Room and Time:** Bolivar Ballroom D, 8 am – 12 pm

**Workshop 3: Medicine and Rehabilitation Sea Turtle Workshop**

**Organizer:** Daniella Freggi

**Room and Time:** Bolivar Ballroom B, 1:30 pm – 5:30 pm

**Workshop 6: The Climate-threats Matrix: Understanding and Quantifying the Interactions of Cumulative Stressors with Climate Change and the resulting Impacts on Sea Turtles**

**Organizers:** Matthew Lettrich

**Room and Time:** Bolivar Ballroom C, 1:30 pm – 5:30 pm

# SESSION DESCRIPTIONS

## **ANATOMY, PHYSIOLOGY AND HEALTH**

This session includes research on all aspects of sea turtle form and function, as well as the causes and consequences of individual and population-wide health problems and how these relate to the environment. Relevant topics include studies and reports on anatomy, physiology, reproductive biology, thermoregulation, osmoregulation, functional morphology, diseases, veterinary care, rehabilitation, epibionts, parasites, health assessment, embryology, and pathology.

## **IN-WATER BIOLOGY (BEHAVIOR, ECOLOGY, MIGRATION, TELEMETRY, FORAGING)**

After entering the ocean as hatchlings, sea turtles do not leave the sea again except to nest (or occasionally to bask). This session broadly encompasses the biology of sea turtles in the ocean. It includes research on turtles of all life-history stages, with the goal of better understanding the biology and ecology of turtles in their underwater habitats. Suitable topics include behavioral or observational studies related to migration, diving, foraging, or navigation, as well as sightings, surveys and monitoring of turtles at sea (e.g., in developmental habitats or foraging areas), conservation status evaluations, and the structure and dynamics of populations, subpopulations, and metapopulations. Other topics include telemetry and movements, patterns of resource use and residency, mating behavior and social interactions, feeding behavior and diet composition, the ecological role turtles play in their diverse habitats, and the implications of habitat condition on the health and sustainability of turtles.

## **NESTING BIOLOGY (ECOLOGY, BEHAVIOR, AND REPRODUCTIVE SUCCESS)**

This session will focus on nesting beaches, nesting females, nests, hatchlings, eggs, and closely related topics. Relevant subjects include assessments of nesting population size, modeling of population parameters, long-term monitoring of nesting trends, forecasting population change, behavior of turtles on nesting beaches, hatching/emergence success and hatchling production, sea-finding behavior, environmental impacts on egg viability or nesting, newly discovered or newly colonized nesting areas, and related topics. Reports of nesting activity for short-term periods (<10 years) may be included in the poster session; studies revealing long-term nesting trends may be suitable for oral presentation if they reveal lessons relevant to other geographic areas.

## **POPULATION BIOLOGY AND MONITORING (STATUS, MODELING, DEMOGRAPHY, GENETICS, NESTING TRENDS, IN-WATER TRENDS)**

This session focuses on sea turtle population assessments and related topics. Specific topics include population demography (i.e. survival probabilities, growth rates and reproductive rates); abundance and trends; population structure and population connectivity; population genetics (e.g., mixed stock analysis); management unit/population segment definitions.



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Studies from both nesting and foraging habitats are welcomed, as are modeling approaches to population biology in which mathematical or simulation models are used to elucidate marine turtle population parameters and vital rates.

### **FISHERIES AND THREATS**

This session focuses on the evaluation of natural and anthropogenic threats that degrade the condition of critical sea turtle habitats, or which increase the risk of mortality and major population declines of sea turtles on any geographic scale. Topics include fisheries bycatch, characterization of fishing gear and fishing effort, directed take, strandings due to any factor (including cold-stunning), impact of degradation of nesting and feeding habitats, impacts of urban development in coastal areas, and emerging threats from climate change, among others. Presentations may also include evaluation of potential impacts of either known or newly discovered threats, as well as proposed or actual measures taken to reduce risks to turtle populations.

### **CONSERVATION, MANAGEMENT AND POLICY**

This session will highlight work on economic, legal, policy, and management aspects of sea turtles and their conservation. Topics include studies and reports that address issues of legislative support and enforcement, policies and programs that safeguard sea turtles and their habitats, management issues related to sea turtle monitoring and conservation, and related matters. This session will also include reports on the implementation, results, and impact of initiatives and international agreements pertaining to sea turtle protection.

### **EDUCATION, OUTREACH AND ADVOCACY**

Sea turtles cannot be protected or conserved unless people take an interest in their continued survival. This session focuses on innovative educational methods for raising awareness of sea turtles and promoting their conservation in different parts of the world, as well as efforts to develop and enhance advocacy efforts on behalf of sea turtles at any level of community or government. Topics include a broad range of approaches to educational outreach and to advocacy, as well as strategies for influencing decision-makers and efforts to convert potential adversaries (e.g., fishermen or egg poachers) into allies.

### **SOCIAL, ECONOMIC AND CULTURAL STUDIES**

Sea turtles play a crucial role not only in marine ecosystems, but also in human societies. This session includes presentations that broadly explore the human dimension of sea turtles and the importance of turtles in diverse cultures and societies around the world. Some presentations focus on research projects, but others highlight initiatives related to the conservation of sea turtles and their habitats, or efforts to understand local attitudes toward sea turtles and conservation. Topics include but are not limited to: social science and/or anthropological research; discussions of cultural considerations related to conservation and management; sea turtles in local folklore, mythology, and culture; examinations of conflict

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and conflict resolution; studies of information and/or technology transfer between local peoples and other experts.

**SPECIAL SESSION: Wildlife Crime: Illegal Trade In Marine Turtles**

This session investigates issues and limitations currently hampering the fight against the illegal trade in marine turtles. From differences in scale (i.e., local, regional, and/or global) to socioeconomic values to legislation and enforcement, the panelists will discuss combining participatory research and conservation approaches to reduce this illegal trade.

**SPECIAL SESSION: How Can Technology Improve Current Conservation Efforts?**

Technology has played a key role in research and conservation of sea turtles for the last several decades. From cellphones to satellite tracking, from drones to net illumination, the advancement of technology has allowed scientists to find better ways to monitor, study, and protect sea turtles in their natural environment. In this 1-hour Panel discussion, we host experts from a variety of disciplines to discuss the value of novel and well-established technologies and explore how these approaches can be used to their full potential for advancing sea turtle conservation in coastal communities worldwide.

**SPECIAL SESSION: The Ultimate Goal Of Hatcheries: Finding A Balance Between Business And Conservation**

Many sea turtle conservation projects across the globe include hatcheries in their repertoire of 'eco-friendly' activities. In many cases these are well-justified, in others it is often hard to find the conservation advantages. Rather, these practices are linked to 'visible solutions' and 'business strategies' with more apparent benefit to the implementor than for the turtles. This session will explore some of the early life stage biology of sea turtles, highlight the importance of these in the design of conservation (and even tourism appreciation) strategies, and identify some of the "best practices" that could be applied to achieve a balance between ecotourism and conservation

**SPECIAL SESSION: Community-Based Conservation Of Marine Turtles: The Next Generation**  
(Will be held in Spanish, with simultaneous translation to English available)

Community empowerment can deliver better marine turtle conservation outcomes. This session explores ways to rapidly scale up our conservation strategies designed to build stronger and deeper alliances with the native and local communities with whom we have the privilege to work. We will have the pleasure to listen to stories directly from leaders of the communities dedicated to the conservation of marine turtles, as well as established researchers and educators that have worked hand-by-hand with coastal communities.

<b>SATURDAY 18<sup>th</sup> MARCH AT-A-GLANCE</b>		
<b>On-Site Registration, Help and Information, T-Shirt Sales</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Trading Post: Donations drop-off</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Oral Presentation Upload</b>	Foyer Bolivar Ballroom	8 am – 5pm
<b>Silent Auction: Items drop-off</b>	Kalamary room I	9 am – 5 pm
<b>Workshop 11: Future Technologies for Large-scale Monitoring of Marine Turtle Nesting Populations</b>	Bolivar Ballroom A	9 am – 1 pm
<b>Workshop 4: Reducing Bycatch by Building Capacity for Collaborative Research among Fishers and Conservationists</b>	Bolivar Ballroom F	9 am – 6 pm
<b>Workshop 12: Strengthening Community-based Environmental Education through efficient use of Technological Communication Tools</b>	Bolivar Ballroom B	9 am – 6 pm
<b>Workshop 10: 4th Workshop on Plastic Pollution and Sea Turtles</b>	Bolivar Ballroom C	2 pm – 6 pm

**SUNDAY 19<sup>th</sup> AT-A-GLANCE**

<b>SUNDAY 19<sup>th</sup> MARCH AT-A-GLANCE</b>		
<b>On-Site Registration, Help and Information, T-Shirt Sales</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Trading Post: Donations drop-off</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Oral Presentation Upload</b>	Foyer Bolivar Ballroom	8 am – 5pm
<b>Special Meeting: WIDECAST</b>	Guacamayo meeting room	8 am – 5 pm
<b>Silent Auction: Items drop-off</b>	Kalamary room I	9 am – 5 pm
<b>Workshop 7: Applications of Sea Turtle Reference Genomes for Research and Conservation Management</b>	Bolivar Ballroom A	9 am – 1 pm
<b>Workshop 2: 4th ISTS Drones and Turtles Workshop</b>	Bolivar Ballroom F	9 am – 1 pm
<b>Workshop 5: Designing Behavior Change Campaigns for Sea Turtle Conservation</b>	Bolivar Ballroom B	9 am – 1 pm
<b>Regional Meeting: RETOMALA</b>	Bolivar Ballroom D	9 am – 6 pm
<b>Workshop 8: Student Committee Workshop: Career Paths and Key Approaches to Prepare and Succeed in the Sea Turtle World</b>	Bolivar Ballroom C	2 pm – 6 pm
<b>Regional Meeting: Oceania</b>	Bolivar Ballroom A	2 pm – 6 pm

<b>MONDAY 20<sup>th</sup> MARCH AT-A-GLANCE</b>		
<b>On-Site Registration, Help and Information, T-Shirt Sales</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Trading Post: Donations drop-off</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Oral Presentation Upload</b> (last chance to upload presentations for Tuesday's talks)	Foyer Bolivar Ballroom	8 am – 5pm
<b>Workshop 1: A strategy framework on the development of solutions to address the key threat of sea turtle trafficking and direct take in the Caribbean, Central and South America</b>	Bolivar Ballroom A	8 am – 5:30 pm
<b>Workshop 9: Male Sea Turtles: Current Global Conservation and Research Efforts</b>	Bolivar Ballroom D	8 am – 12 pm
<b>Regional Meeting: Africa</b>	Bolivar Ballroom C	8 am – 12 pm
<b>Regional Meeting: Mediterranean Reunion</b>	Bolivar Ballroom B	8 am – 12 pm
<b>Special Meeting: Laud OPO Network</b>	Bolivar Ballroom F	8 am – 5:30 pm
<b>Special Meeting: WIDECAST</b>	Guacamayo Meeting Room	8 am – 5 pm
<b>Silent Auction: Items drop-off</b>	Kalamary room I	9 am – 5 pm
<b>Special Meeting (by invitation only): Planning Meeting Colombian Ministry of Environment</b>	Kalamary II	9 am – 12:30 pm
<b>Workshop 3: Medicine and Rehabilitation Sea Turtle Workshop</b>	Bolivar Ballroom B	1:30 pm – 5:30 pm
<b>Regional Meeting: IOSEA</b>	Bolivar Ballroom D	1:30 pm – 5:30 pm
<b>Poster Setup</b>	Cartagena de Indias meeting room and Foyer Bolivar	2 pm – 5 pm

**MONDAY 20<sup>th</sup> AT-A-GLANCE**

**MONDAY 20<sup>th</sup> MARCH AT-A-GLANCE**

<b>Exhibitors and Vendors Setup</b>	Guacamayo meeting room	6 pm
<b>Volunteer Meeting</b>	Kiosko La Marina	6 pm
<b>Cultural Night</b>	Bolivar Ballroom (C-D-B-E)	7 pm – 8 pm
<b>Welcome Social</b>	Gardens (“Jardines”)	8 pm – 11 pm

**6 PM: VOLUNTEER MEETING**

**Kiosko La Marina  
20<sup>th</sup> MARCH 2023**

**7 PM – 8 PM: Cultural Night**

**Bolivar Ballroom C – D – E - F  
20<sup>th</sup> MARCH 2023**

**8 PM – 11 PM: Welcome Social**

**Gardens (“Jardines”)  
20<sup>th</sup> MARCH 2023**

<b>TUESDAY 21<sup>st</sup> MARCH AT-A-GLANCE</b>		
<b>On-Site Registration, Help and Information, T-Shirt Sales</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Trading Post: Donations drop-off</b>	Foyer Bolivar Ballroom	8 am – 5 pm
<b>Oral Presentation Upload</b> (last chance to upload presentations for Wednesday's talks)	Foyer Bolivar Ballroom	8 am – 5pm
<b>Exhibitors and Vendors</b>	Guacamayo meeting room	8:30 am – 7:15 pm
<b>Silent Auction</b>	Kalamary room I	9 am – 5 pm
<b>Poster Display</b>	Cartagena de Indias meeting room and Foyer Bolivar	All day
<b>Opening Remarks and Keynote Address</b>	Bolivar Ballroom (C-D-B-E)	8:30 am – 10:15 am
<b>Special Session: Wildlife Crime: Illegal Trade in Marine Turtles</b>	Bolivar Ballroom	10:45 am – 12:15 pm
<b>Social, Economic, and Cultural Studies</b>	Bolivar Ballroom (A-F)	2 pm – 3:26 pm
<b>Nesting Biology I</b>	Bolivar Ballroom (C-D)	2 pm – 3:26 pm
<b>Population Biology and Monitoring I</b>	Bolivar Ballroom (A-F)	4 pm – 5:02 pm
<b>Nesting Biology II</b>	Bolivar Ballroom (C-D)	4 pm – 5:02 pm
<b>Special Session: How can Technology improve Community Conservation Efforts?</b>	Bolivar Ballroom (C-D-B-E)	5:20 pm – 6:20 pm
<b>Poster Session: Meet the Authors (Anatomy, Physiology and Health; Conservation, Management and Policy; Education, Outreach and Advocacy; In-water Biology; Nesting Biology; Social, Economic, and Cultural Studies)</b>	Cartagena de Indias meeting room and Foyer Bolivar	6:25 pm – 7:25 pm

**TUESDAY 21<sup>st</sup> AT-A-GLANCE**

**TUESDAY 21<sup>st</sup> MARCH AT-A-GLANCE**

<b>ISTS Board of Directors Meeting</b>	Sala VIP Tinajero	6 pm – 11 pm
<b>Video Night</b>	Bolivar Ballroom (A-F)	7:30 pm – 10:30 pm

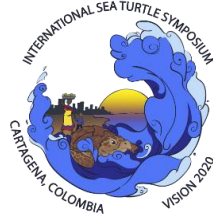


# OPENING SESSION

TUESDAY 21<sup>st</sup> MARCH 8:30 AM - 10:15 AM

Bolivar Ballroom C - D - B – E

## OPENING REMARKS



**ISTS President Diego Amorocho**

*Welcome to the 41st Annual Sea Turtle Symposium*

## Keynote Presentations:

**Ximena Rojas Giraldo**

*Director of the Direction of Marine, Coastal and Aquatic Resources Affairs (DAMCRA)  
– Ministry of Environment and Sustainable Development, Republic of Colombia*

Welcome and Keynote address

**Hector Barrios-Garrido**

*TropWATER/GTTM-GV, Adjunct Research Fellow/Co-Founder*

Evolution of sea turtle community-based conservation in Latin America and the Caribbean

**Brad Nahill**

*SEE Turtles, President & Co-Founder*

Fundraising for Sea Turtle Conservation: Ideas, Advice, & Opportunities

**10:15 AM - 10:45 AM: MORNING BREAK**

**10:45 AM – 12:15 PM: SPECIAL SESSION**  
**Wildlife Crime: Illegal Trade in Marine Turtles**

**Moderator:**

Christine Hof PhD, *WWF-Coral Triangle Program/Australia*

**Panelists:**

Jesse Senko PhD, *Arizona State University/USA*

Hector Barrios-Garrido PhD, *TropWATER/Australia, GTTM-GV/Venezuela*

Nicholas Pilcher PhD, *National Center for Wildlife/Saudi Arabia, Marine Research Foundation/Malaysia*

Brad Nahill, *SEE Turtles/USA*

**Bolivar Ballroom C - D - B - E, 21<sup>st</sup> MARCH 2023**

**12:15 PM – 2:00 PM: LUNCH BREAK**

**2:00 PM: SESSION 1: SOCIAL, ECONOMIC, AND CULTURAL STUDIES #1**

**Chairs:** Andrea Phillott, Karla Georgina Barrientos Munoz, Hector Barrios-Garrido, Seh Ling Long

**BOLIVAR BALLROOM A - F, 21<sup>st</sup> MARCH 2023**

\*Denotes Archie Carr best student paper award candidate; ^ Denotes Grassroots paper award candidate; Presenting author in **BOLD**

**2:00** BEYOND CONSERVING SEA TURTLES: EMPOWERING WOMEN AND GIRLS IN STEM EDUCATION AND ECONOMIC INDEPENDENCE  
**Martin Molina** | Pamela Fletcher | Eleanor Angone | Justin Muir | Aracely Parrales | Marvin Hernandez | Oscar Gonzalez | Fabien Cousteau

**2:12** PEOPLE, TECHNOLOGY, AND INNOVATION: A SOCIO-ECOLOGICAL FRAMEWORK TO UNDERSTAND INDIVIDUAL AND COMMUNITY-LEVEL RESPONSES TOWARDS BYCATCH REDUCTION SOLUTIONS  
**Cindy Vargas** | Jeffrey A. Seminoff | Carlos Delgado Trejo | Nestor Davalos | Victoria Andrade Valencia | Raquel Briseño Dueñas | Diana Arely Ramos de la Torre | Joanna Alfaro Shigueto | Clara Ortíz Alvare | Agnese Mancini | Maria Isabel Miranda Marin |

Karen Oceguera Camacho | Helga Oceguera Camacho | Jesus Lucero Romero | Anibal Murillo Lopez | Yadira Trejo Hernandez | Allison Hadden Martinez | Katherine Comer Santos | Catherine Hart | Luis Tello Sahagún | Adalberto García Domínguez | Margarita Mascareño López | Fabian Castillo | Alan Zavala Norzagaray | Kassandra Luna | Elsa Coria Galindo | Cecilia Blasco | Heriberto Santana Hernandez | Bryan P. Wallace | Elena M. Finkbeiner | James P. Collins | Jesse Senko

**2:24** \*A COLLECTION OF ECUADORIAN ARTISANAL FISHERS' PERSPECTIVES ON OCEAN CONSERVATION

**María Isabel Dabrowski** | Amanda Rocafuerte | Julia Wondolleck | Luis Paladines | Francesco Saltos | Samantha Barreiro | Jurgen Flores | Leonardo Rodriguez | Valeria Crespo Ochoa | Callie Veelenturf

**2:36** A SOCIO-ECOLOGICAL CHARACTERIZATION OF HOUSEHOLDS THAT ENGAGE IN HAWKSBILL EGG COLLECTION ON THE PACIFIC COAST OF EL SALVADOR AND NICARAGUA

**Jose Ricardo Urteaga Augier** | Michael J. Liles | Eduardo Altamirano | Sofia Chavarría | Velkiss Gadea E. | Alexander R. Gaos | Ana Henríquez | Heydi Salazar | Alejandra Rivera A | Melissa Valle | Ingrid L. Yañez

**2:48** ^THE WAYUU VOICES: A CHANGING CONNECTION WITH THE MARINE TURTLES

**Jordano Javier Palmar Gonzalez** | Martin Oquendo | Tibisay Rodriguez | Francisco Rodriguez | Royner Carrasquero | Natalie Wildermann | Ninive Espinoza-Rodriguez | Daniela Rojas-Cañizales | Hector Barrios-Garrido

**3:00** TURTLEOPOLIS—APPLYING BLANCHETTE'S SUGGESTIONS ABOUT INDUSTRIAL HOG PRODUCTION ANIMALITY TO LIFE IN TORTUGUERO, COSTA RICA

**Zoe A. Meletis**

**3:12** LOSS OF HERITAGE CULINARY TRADITIONS OF BAJA CALIFORNIA SUR - MEXICO DUE TO THE ENDANGERED EXTINCTION OF SEA TURTLES

**Graciela Tiburcio-Pintos**

## 2:00 PM: SESSION 2: NESTING BIOLOGY #1

**Chairs:** Catherine Hart, Ray Carthy, Adriana A. Cortés Gómez, Mariana Fuentes

**BOLIVAR BALLROOM C - D, 21<sup>st</sup> MARCH 2023**

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**2:00** ADAPTATION OF SEA TURTLES TO CLIMATE CHANGE: WILL PHENOLOGICAL RESPONSES BE SUFFICIENT TO COUNTERACT CHANGES IN REPRODUCTIVE OUTPUT?

**Mariana Fuentes** | Jonathan Monsinjon

**2:12** THERMAL MONITORING IN BOAVISTA ISLAND, CABO VERDE WEST AFRICA

**Leila Almeida** | Adolfo Marco | Ana Liria Loza | Christophe Eizaguirre | Manjula Tiwari | Thomas Reischig | Samir Martins | Pilar Santidrian

- 2:24** DODGING THE SURF: FACTORS BEHIND THE EXPOSURE AND TOLERANCE OF WAVE WASH-OVER FOR LOGGERHEAD TURTLE NESTS IN THE NORTHERN GULF OF MEXICO  
**Matt Ware**
- 2:36** ALL EGGS IN ONE POOR QUALITY BASKET: ASSESSING HAWAIIAN GREEN SEA TURTLE (HONU) RESILIENCE IN LIGHT OF CLIMATE CHANGE IMPACTS  
**Camryn D. Allen** | Alexander R. Gaos | Shawn K. K. Murakawa | Yonat Swimmer | Devin Johnson | Marylou K. Staman | Jan Willem Staman | Debbie Herrera | Thomas J. Cutt | Chanel Y. K. Browne | Michele A. Olry | T. Todd Jones | Summer L. Martin
- 2:48** EVALUATION OF THE EFFECTIVENESS OF SANDBAGS FOR THE INCUBATION OF CLUTCHES OF *Lepidochelys olivacea*, IN THE PACIFIC COAST OF NICARAGUA.  
**Heydi Yessenia Salazar** | José Urteaga | Velkiss Gadea | Daniela Padilla | Juan Berroterán | Carmen Guevara
- 3:00** 21 YEARS OF POLYSTYRENE BOX INCUBATION RECORDS: WHAT DO THEY TELL US ABOUT THE HUMAN ELEMENT IN EX SITU MANAGEMENT OF SEA TURTLE EGGS?  
Frank Smith | Scott Boyce | Matthew Ware | Madison McLoughlin | Monica Monda | Mariana M.P.B. Fuentes | **Katherine Comer Santos**
- 3:12** \*^INSIGHTS INTO NESTING ECOLOGY OF MARINE TURTLE POPULATIONS UNDER CONSERVATION: TWO DECADES OF MONITORING IN KENYA  
**Casper H. van de Geer** | Annette C. Broderick | Matt I.D. Carter | Athuman A. Irei | Fikiri K. Kiponda | Joseph Kiptum | Joey Ngunu | Nicola Parazzi | Hannah Sawyer-Kerr | Sam Weber | Ricardo Zanre | Brendan J. Godley

## 3:30 PM – 4:00 PM: AFTERNOON BREAK

### 4:00 PM: SESSION 3: POPULATION BIOLOGY AND MONITORING #1

**Chairs:** Ximena Vélez-Zuazo, Pilar Santidrián Tomillo, Rocio Álvarez-Varas, Alberto Abreu-Grobois

**BOLIVAR BALLROOM A - F, 21<sup>st</sup> MARCH 2023**

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- 4:00** LIFE-HISTORY OF *Lepidochelys olivacea* MODEL: A CASE STUDY OF GUATEMALA'S POPULATIONS  
**B. Alejandra Morales-Mérida** | Marc Girondot
- 4:12** SEX RATIO ESTIMATION OF GREEN SEA TURTLES (*Chelonia mydas*) AT FORAGING SITES IN THE GALÁPAGOS ISLANDS.  
**Silvia Rebeca Zavala-Montoya** | Maximilian Hirschfeld | Daniela Alarcón-Ruales | Juan Pablo Muñoz-Pérez | Gregory Lewbart | Kenneth J Lohmann

- 4:24** GROWTH RATE AND ESTIMATED AGE AT SEXUAL MATURITY IN THE MARINE PROTECTED AREA OF ALDABRA ATOLL, SEYCHELLES, FOR TWO SYMPATRIC, IMMATURE TURTLE SPECIES  
**Cheryl Sanchez** | Nancy Bunbury | Jeanne A Mortimer | Luke A'Bear | Michael Betts | Rainer von Brandis | April J Burt | Lorraine Cooke | Janske van de Crommenacker | Jock C Currie | Naomi Doak | Frauke Fleischer-Dogley | Emma Mederic | Bruno Mels | Pierre Pistorius | Heather Richards | Paolo Casale
- 4:36** ESTIMATION OF GREEN TURTLE *Chelonia mydas* SOMATIC GROWTH FROM A LONG-TERM MARK-RECAPTURE PROGRAM IN THE SOUTHWESTERN ATLANTIC OCEAN (33°-35° S)  
**Gabriela Manuela Velez-Rubio** | Alejandro Fallabrino | Daniel González-Paredes | Gustavo Martínez Souza | Andrés Estrades | Angel M Segura
- 4:48** \*SEA TURTLES' IDENTIFICATION USING DEEP LEARNING AND MULTIMEDIA APPROACH  
**Arturo Ríos-Ramos** | Leonardo A. Marcelo-Posadas | Alejandro A. Ramirez-Acosta | Mireya S. García-Vázquez

## 4:00 PM: SESSION 4: NESTING BIOLOGY #2

**Chairs:** Catherine Hart, Ray Carthy, Adriana A. Cortés Gómez, Mariana Fuentes

**BOLIVAR BALLROOM C - D, 21<sup>st</sup> MARCH 2023**

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- 4:00** \*SMALLER SIZE OF NESTING LOGGERHEAD FEMALES (*Caretta caretta*) IN THE GULF OF MEXICO: EFFECTS ON NEST PLACEMENT AND PRODUCTIVITY.  
**Luna O.M. Vieira** | **Laura Fuentes-Tejada** | **Matthew Ware** | **Ian Silver-Gorges** | **Mariana M.P.B. Fuentes**
- 4:12** GREEN TURTLE (I`A SA) NESTING ABUNDANCE, HATCHLING PRODUCTION, AND MOVEMENT BEHAVIOR IN THE CENTRAL SOUTH PACIFIC OCEAN: ROSE ATOLL NATIONAL WILDLIFE REFUGE (MULIĀVA OR MOTU O MANU), 2012-2019  
**Shawn K.K. Murakawa** | Alexander R. Gaos | Devin S. Johnson | Brian Peck | Mark MacDonald | Elyse Sachs | Camryn D. Allen | Marylou Staman | Frank Pendleton | Kyle Van Houtan | T. Todd Jones | Summer L. Martin
- 4:24** SANDY POINT FORTY YEARS ON: EMERGING HOTSPOT FOR THREE SEA TURTLE SPECIES  
**Kelly R. Stewart** | Claudia D. Lombard | Peter H. Dutton
- 4:36** ^LEATHERBACK TURTLES IN GRENADA, WEST INDIES: A TWENTY-YEAR SUMMARY OF RESULTS 2002-2022  
**Kate. E Charles** | Carl Lloyd | Kenrith. D Carter | Kester. G Charles | Cliff Hypolite | Stephen Roberts | Ran Charles | Clare. E Morrall

**4:48** BETWEEN THE ATOLLS - A SUMMARY OF SEA TURTLE NESTING IN THE MALDIVES FROM 2018-2022  
Isha Afeef | Emily Mundy | Martin Stelfox | **Stephanie Koehn**

## 5:05 PM – 5:20 PM: SHORT BREAK

## 5:20 PM – 6:20 PM: SPECIAL SESSION

### How Can Technology Improve Current Conservation Efforts?

**Moderator:**

Jeffrey Seminoff PhD, *NOAA Fisheries/USA*

**Panelists:**

Andrews Agyekumhene PhD, *University of Ghana/Ghana*

Claire Jean, *Kelonia/France*

Lourdes Martínez-Estévez PhD, *Fundación ProCAT/Costa Rica-Mexico*

Bárbara Sellés-Ríos, *Osa Conservation/Costa Rica*

**Bolivar Ballroom C - D - B - E, 21<sup>st</sup> MARCH 2023**

## 6:25 PM – 7:25 PM: MEET THE POSTER

### AUTHOR(S) SESSION #1:

Anatomy, Physiology and Health  
Conservation, Management and Policy  
Education, Outreach and Advocacy  
In-water Biology  
Nesting Biology  
Social, Economic, and Cultural Studies

**Cartagena de Indias Meeting Room / Cartagena de Indias Mezzanine /  
Guacayamo Mezzanine,  
21<sup>st</sup> MARCH 2023**

**6 PM – 8 PM: BOARD OF DIRECTORS MEETING**

**Sala VIP Tinajero  
21<sup>st</sup> MARCH 2023**

**7:30 PM – 10:30 PM: VIDEO NIGHT**

**Bolivar Ballroom A - F  
21<sup>st</sup> MARCH 2023**

**WEDNESDAY 22<sup>nd</sup> MARCH AT-A-GLANCE**

<b>On-Site Registration, Help and Information, T-Shirt Sales</b>	Foyer Bolivar Ballroom	8 am – 12 pm 1 pm – 3 pm
<b>Trading Post: Donations drop-off</b>	Foyer Bolivar Ballroom	8 am – 12 pm 1 pm – 3 pm
<b>Oral Presentation Upload</b> (last chance to upload presentations for Thursday's talks)	Foyer Bolivar Ballroom	8 am – 12 pm 1 pm – 3 pm
<b>Exhibitors and Vendors</b>	Guacamayo meeting room	8:30 am – 7:15 pm
<b>Silent Auction</b>	Kalamary room I	9 am – 5 pm
<b>Poster Display</b>	Cartagena de Indias meeting room and Foyer Bolivar	All day
<b>Population Biology and Monitoring II</b>	Bolivar Ballroom (A-F)	8:30 am – 10:20 am
<b>Fisheries and Threats I</b>	Bolivar Ballroom (C-D)	8:30 am – 10:20 am
<b>Nesting Biology III</b>	Bolivar Ballroom (A-F)	10:50 am – 12:28 pm
<b>Fisheries and Threats II</b>	Bolivar Ballroom (C-D)	10:50 am – 12:28 pm
<b>In-water Biology I</b>	Bolivar Ballroom (A-F)	2 pm – 3:26 pm
<b>Conservation, Management and Policy I</b>	Bolivar Ballroom (C-D)	2 pm – 3:26 pm
<b>Art Mural Handprints</b>	Mezzanine 2 <sup>nd</sup> Floor	3 pm – 5 pm
<b>Population Biology and Monitoring III</b>	Bolivar Ballroom (A-F)	4 pm – 5:02 pm
<b>Conservation, Management and Policy II</b>	Bolivar Ballroom (C-D)	4 pm – 5:02 pm
<b>Special Session: The ultimate goal of hatcheries: finding a balance between business and conservation</b>	Bolivar Ballroom (C-D-B-E)	5:20 pm – 6:20 pm



**WEDNESDAY 22<sup>nd</sup> MARCH AT-A-GLANCE**

<b>Poster Session: Meet the Authors (Conservation, Management and Policy; Education, Outreach, and Advocacy; Fisheries and Threats; Nesting Biology; Population Biology and Monitoring)</b>	Cartagena de Indias meeting room and Foyer Bolivar	6:25 pm – 7:25 pm
<b>MTSG Meeting</b>	Bolivar Ballroom (A-F)	6 pm – 8 pm
<b>Student Mixer, Speed Chat with Experts, and Trading Post</b>	Bolivar Ballroom (C-D)	7:30 pm – 10:30 pm

## 8:30 AM: SESSION 5: POPULATION BIOLOGY AND MONITORING #2

**Chairs:** Ximena Vélez-Zuazo, Pilar Santidrián Tomillo, Rocío Álvarez-Varas, Alberto Abreu-Grobois

**BOLIVAR BALLROOM A - F, 22<sup>nd</sup> MARCH 2023**

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- 8:30** \*ESTIMATING OFFSHORE SEA TURTLE DENSITY AT SMALL SCALE: A COMBINED APPROACH WITH UAV AND MULTI-SENSORS DATALOGGERS  
**Chiara Agabiti** | Livia Tolve | Giulia Baldi | Marina Zucchini | Federica Restelli | Daniela Freggi | Paolo Luschi | Paolo Casale
- 8:42** RECENT DESIGN IMPROVEMENTS FOR A STEREO-VIDEO CAMERA EQUIPPED UNOCCUPIED AERIAL VEHICLE FOR MEASURING SEA TURTLES, AND OTHER MARINE FAUNA  
**Susan Piacenza** | Elliott Chimienti | Fischer Hill | Azara Tilt | Kenneth J. Faller | Joseph Piacenza
- 8:54** LONG-TERM TREND OF OLIVE RIDLEY TURTLES NESTING IN BRAZIL REVEALS ONE OF THE LARGEST ROOKERIES IN THE ATLANTIC  
Jaqueline C de Castilhos | Bruno de Barros Giffoni | Luciana Medeiros | Alexandro Santos | Frederico Tognin | Augusto César Coelho Dias da Silva | Fábio Lira das Candeias Oliveira | Ederson Luíz Fonseca | Marilda Inês Weber | Ana Carolina Corrêa de Melo | João Artur Gonzalez de Abreu | Maria Ângela Marcovaldi | Manjula Tiwari | **Gustavo Stahelin**
- 9:06** THE IMPORTANCE OF LONG-TERM MONITORING AND TAGGING FOR THE SPECIES HAWKSBILL TURTLES (*Eretmochelys imbricata*) AT FEEDING, FORAGING SITES AND NESTING BEACHES IN JIQUILISCO BAY, EL SALVADOR  
**Sofia Chavarría** | Melissa Ivette Valle Linares | Ana Vilma Henríquez Pocasangre | Marvin Ernesto Pineda Menjívar | Ramón Neftaly Sánchez Romero | Carlos Mario Pacheco Turcios | Michael Liles | Alexander Gaos | Ingrid Yañez
- 9:18** RECENT DECLINE OF THE GREEN TURTLE NESTING POPULATION AT TORTUGUERO, COSTA RICA  
**Roldan Valverde** | Jaime Restrepo | Emily G. Webster | Iván Ramos
- 9:30** \*HAWKSBILL NESTING TRENDS INCREASED SIGNIFICANTLY AT SANDY POINT NATIONAL WILDLIFE REFUGE, ST. CROIX OVER 30 YEARS  
**Makayla Q Kelso** | Claudia Lombard | Paul Jobsis | Dante Trivett | Kelly R Stewart
- 9:42** IN-WATER SURVEYS AT MONA AND MONITO ISLANDS, PUERTO RICO, 1992-2022  
**Robert P Van Dam** | Carlos E Diez
- 9:54** TWENTY YEARS OF MONITORING AND TRACKING GREEN TURTLES IN WEST AFRICA: WHAT HAVE WE LEARNT?

**Paulo Catry** | Aissa Regalla | Castro Barbosa | Cheibani Senhoury | Ebaye Sidina | Rita Patrício

**10:06** LOW RATE OF MULTIPLE PATERNITY AND A BALANCED BREEDING SEX RATIO IN HAWKSBILL TURTLES

**Kathryn Levasseur** | Seth Stapleton | Joseph Quattro

## **8:30 AM: SESSION 6: FISHERIES AND THREATS #1**

**Chairs:** Mariela Pajuelo, Jesse F. Senko, Jeffrey Mangel, Yonat Swimmer

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**8:30** \*A COMMUNITY SURVEY FROM SUMATRA, INDONESIA: WHAT ARE THE PURPOSES OF SEA TURTLE USE AND WHICH FACTORS INFLUENCE IT?

**Adela Hemelikova** | Nur Fadli | Awaluddin Awaluddin | Teuku Reza Ferasyi | Pavel Zoubek | Tomas Ouhel | Christine Madden Hof | Kimberley Riskas | Jiri Vojar

**8:42** SURVEY OF MARINE TURTLE USE BY COMMUNITIES IN FIJI

Aisake Batibasaga | **Duncan Williams** | Christine Madden Hof | Karalaini Rereavosa

**8:54** \*GLOBAL PATTERNS OF ILLEGAL MARINE TURTLE EXPLOITATION

**Kayla Marie Burgher** | Bryan P. Wallace | Maria del Mar Mancha-Cisneros | Brendan J. Godley | Irene Kinan-Kelly | Trevor Fox | Frances Humber | Volker Koch | Andrew T. Smith | Jesse F. Senko

**9:06** \*^MARINE TURTLE TAKE IN THE GUAJIRA PENINSULA, VENEZUELA: A CURRENT ISSUE AND CONSERVATION ROOTS

**Royner Alexander Carrasquero Labarca** | Jordano Palmar | Martin Oquendo | Ninive Espinoza-Rodriguez | Daniela Rojas-Cañizales | Hector Barrios-Garrido

**9:18** \*SELECTIVITY IN BEHAVIORAL RESPONSE TO PREY-LIKE PLASTIC BY SEA TURTLES

**Ye lim Moon** | Gi Myung Han | Won Joon Shim | Dong Jin Han | Eun Vit Cho | Hee-jin Noh | Sang Hee Hong

**9:30** ODORS FROM MARINE PLASTIC DEBRIS ELICIT FORAGING BEHAVIOR IN SEA TURTLES

**Joseph B. Pfaller** | Kayla Goforth | Michael A. Gil | Matthew S. Savoca | Kenneth J. Lohmann

**9:42** \*IMPACT SEVERITY ASSESSMENT OF PLASTIC INGESTION ON MARINE TURTLES ACCORDING TO QUANTITIES AND CHARACTERISTICS OF INGESTED PLASTICS

**Daniel González-Paredes** | Alejandro de la Fuente | Virginia Ferrando | Gabriela Vélez-Rubio | Mark Hamann

**9:54** \*FAST GROWING URBAN AREAS AS POTENTIAL DRIVERS OF SEA TURTLE NEST PREDATION

**Keilor Enrique Cordero Umaña** | Pilar Santidrián Tomillo

**10:06** \*THE IMPACT OF CLIMATE CHANGE ON HAWKSBILL TURTLES (*Eretmochelys imbricata*): ASSESSING PRIMARY SEX RATIOS AND SEA LEVEL RISE IN THE UNITED ARAB EMIRATES  
**Hind M. Al Ameri** | Annette C. Broderick | Himansu S. Das | Miguel R. Varela | Brendan J. Godley

## 10:20 AM - 10:50 AM: MORNING BREAK

### 10:50 AM: SESSION 7: NESTING BIOLOGY #3

**Chairs:** Catherine Hart, Ray Carthy, Adriana A. Cortés Gómez, Mariana Fuentes

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- 10:50** \*^SPECIES TURN-OVER ON GANDOCA BEACH, COSTA RICA: ONCE IMPORTANT FOR LEATHERBACK NESTING, IT IS NOW CONSIDERED TO BE THE MOST IMPORTANT NESTING SITE FOR THE CRITICALLY ENDANGERED HAWKSBILL TURTLE (*Eretmochelys imbricata*) IN CARIBBEAN COSTA RICA  
**Juliana Masís Solano** | Andrey Castillo MacCarthy | Ariana Oporta MacCarthy | Henry Alguera MacCarthy | Jordy Sandoval Morales | Jose William Tijerino Mora | Justin Ortiz Sanarrucia | Adrubal Gamez Rojas | Esteban Sandoval MacCarthy | Christine Figgener
- 11:02** PREDATION OF LOGGERHEAD SEA TURTLE NESTS CAUSE A POTENTIAL EFFECT TO THE NEST SEX RATIO ON DALYAN BEACH, TÜRKİYE  
Melis Yılmaz | Dogan Sozbilen | **Yakup Kaska**
- 11:14** THE HAWAI'I ISLAND HAWKSBILL PROJECT  
**Kelleigh Downs** | Alexander Gaos | Shaya Honarvar
- 11:26** \*RESPONSE OF HATCHLING GREEN (*Chelonia mydas*) AND HAWKSBILL (*Eretmochelys imbricata*) SEA TURTLES TO ACOUSTIC CUES  
**Bethany Holtz** | TriciaLyn Beamer | Gigi Hess | Courtney Parks | Scott McRobert
- 11:38** 21 YEARS OF SEA TURTLE NESTING SURVEYS IN SOUTHEAST COAST OF PUERTO RICO  
**Luis A Crespo**
- 11:50** HISTORICAL RECORDS OF LOGGERHEAD TURTLE (*Caretta caretta*) NESTING AT TORTUGUERO, COSTA RICA.  
**Jaime Restrepo** | Daniela Rojas-Cañizales | Roldán A. Valverde
- 12:02** FROM TERRA INCOGNITA TO HOTSPOT: THE LARGEST SOUTH PACIFIC GREEN TURTLE NESTING POPULATION IN THE FORGOTTEN REEFS OF NEW CALEDONIA  
Jacques Fretey | **Tyffen Read** | Marc Girondot

**12:14** \*HATCHING SUCCESS OF GREEN TURTLE (*Chelonia mydas*) EGGS RECOVERED FROM FEMALES PREYED UPON BY JAGUARS (PANTHERA ONCA) AT TORTUGUERO NATIONAL PARK, COSTA RICA  
**Renato Saragoça Bruno** | Nerine Constant | James Zúñiga | Gustavo Ortiz | Alan Bolten | Karen Bjorndal

## **10:50 AM: SESSION 8: FISHERIES & THREATS #2**

**Chairs:** Mariela Pajuelo, Jesse F. Senko, Jeffrey Mangel, Yonat Swimmer

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**10:50** CRAWL SCENE INVESTIGATION (CSI): MEASURING HATCHLING MORTALITY FROM ARTIFICIAL LIGHTING

**Ashley Britt Chelberg** | Blair E Witherington | Shigetomo Hiram

**11:02** RECORDS OF STRANDING SEA TURTLES IN THE NESTING BEACHES OF THE SOUTHERN NICOYA PENINSULA, COSTA RICA

Carmen Mejías-Balsalobre\* | Daniela Rojas-Cañizales | Isabel Naranjo | Randall Arauz

**11:14** INTERACTIONS OF MARINE TURTLES WITH NEARSHORE RECREATIONAL FISHING GEAR ON THE ISLAND OF MAUI, HAWAII

**Thomas J. Cutt** | Chanel Y.K. Browne | Gregg A. Levine | Alexander R. Gaos | Mckenzie E. Mungai | Irene K. Kelly | Summer L. Martin

**11:26** MAPPING SEA TURTLES VULNERABLE TO VESSEL STRIKES WITHIN REGIONAL, NEARSHORE, HOTSPOTS IN FLORIDA, USA

**Ryan Welsh** | Blair Witherington

**11:38** ARTISANAL LOBSTER FISHING AND ITS RELATIONSHIP WITH THE HAWKSBILL TURTLE IN LOS CÓBANOS COMPLEX NATURAL PROTECTED AREA AND PUNTA AMAPALA, EL SALVADOR.

**Marvin Ernesto Pineda Menjívar** | Carlos Mario Pacheco Turcios | Sofía Beatriz Chavarría Pérez | Melissa Ivette Valle Linares | Ramón Neftaly Sánchez Romero | Ana Vilma Henríquez Pocasangre | Michael Liles | Alexander Gaos | Ingrid Yañez

**11:50** \*CANARY ISLANDS AS LOGGERHEAD ENTANGLEMENT HOTSPOT: APPLYING STANDARD PROTOCOLS ON HISTORICAL DATABASES

**Andrea Fariñas-Bermejo** | Patricia Ostiategui-Francia | Pascual Calabuig-Miranda | Ana Calero-Estévez | Santiago Mayans-Vázquez | Medina Félix Manuel | Trini Melgarejo-Hernández | Sonia Plasencia-Rodríguez | Miguel Ángel Rodríguez-Domínguez | Alejandro Suárez-Pérez | Ana Liria-Loza

**12:02** \*BEHAVIORAL RESPONSES OF SEA TURTLES TO EVADE ENTANGLEMENT IN FISHING NETS

**Janie L Reavis** | Blair Witherington | Michael Bresette | Dale DeNardo | Jesse F. Senko

**12:14** \*INTERACTIONS OF MARINE TURTLES IN FLORIDA'S COMMERCIAL AND RECREATIONAL TRAP FISHERIES: 30+ YEARS OF DATA REVEAL A WIDESPREAD AND PERSISTENT THREAT

**Rachel Smith** | Sue Schaf | Carlee Jackson | Raymond Carthy

## 12:30 PM – 2:00 PM: LUNCH BREAK

### 2:00 PM: SESSION 9: IN-WATER BIOLOGY #1

**Chairs:** Alexander Gaos, Summer L. Martin, Gabriela Velez-Rubio, Kara Dodge, Katharine Hart

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- 2:00** SEA TURTLE CONNECTIVITY BETWEEN THE CUBAN SHELF AND OTHER AREAS  
**Felix Guillermo Moncada Gavilan** | Jorge Brenner | Cynthia J. Lagueux | Gonzalo Nodarse | Julia Azanza | Yanet Forneiro | Michel Hernandez
- 2:12** \*VARIATIONS IN DIVE BEHAVIOR AMONG TWO FORAGING GROUPS OF LEATHERBACK SEA TURTLES (*Dermochelys coriacea*) MAY CORRESPOND WITH DIFFERENCES IN PREY DISTRIBUTION AND ENVIRONMENTAL CONDITIONS  
**Mitchell Rider** | Larisa Avens | Heather Haas | Samir Patel | Neil Hammerschlag | Chris Sasso
- 2:24** SPATIAL DENSITY MODELS FOR FOUR SPECIES OF SEA TURTLE ON THE EAST COAST OF THE UNITED STATES  
**Andrew DiMatteo** | Laura Sparks
- 2:36** TRACKING MALE TURTLES FROM AMVRAKIKOS GULF: AN IMPORTANT FORAGING AREA FOR LOGGERHEAD TURTLES IN GREECE  
**Alan F Rees** | Panagiota Theodorou | Dimitris Margaritoulis
- 2:48** PHOTO IDENTIFICATION AS A TOOL TO STUDY SEA TURTLE POPULATIONS IN KENYAN MARINE PROTECTED AREAS  
**Joana Hancock** | Jenni Choma | Leah Mainye | Jillian Hudgins | Stephanie Kohnk
- 3:00** \*CONNECTIVITY BETWEEN REEF AND MANGROVE HABITATS OF HAWKSBILL SEA TURTLES IN A TROPICAL UPWELLING REGION FROM THE EASTER TROPICAL PACIFIC  
**Veronica Valverde-Cantillo** | Maike Heidemeyer | Chris Lowe | Frank V. Paladino | Mario Espinoza
- 3:12** IMPORTANCE OF NERITIC HABITATS ALONG MIGRATION ROUTE FOR ADULT HAWKSBILL TURTLES IN THE SOUTH-WEST INDIAN OCEAN  
**Manon Niviere** | Claire Jean | Mayeul Dalleau | Jérôme Bourjea | Stéphane Ciccione | Anne Barat | Vanessa Didon | David Rowat | Gérard Rocamora | Jamal Mahafina |

Ravaka Ranaivoson | Lalatiana Odile Randriamiharisoa | Joel Henri Jao | Mouchitadi Madi Bambou | Elliott Barichasse | Abissain Chamsi Said | Katia Ballorain

## 2:00 PM: SESSION 10: CONSERVATION, MANAGEMENT AND POLICY #1

**Chairs:** Brad Nahill, Aiki Panagopoulou, Matthew Godfrey, Shaleyra Kelez

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- 2:00** SHARING THE SUCCESSES: FIFTEEN YEARS SINCE REDISCOVERY OF HAWKSBILL TURTLES IN THE EASTERN PACIFIC OCEAN  
**Ingrid Yanez**
- 2:12** STRENGTHEN HAWKSBILL SEA TURTLE CONSERVATION IN THE MEXICAN PACIFIC. WWF MEXICO.  
**Esbaide Eliosa-Garcia** | Catherine Hart | Lourdes Martínez-Estevez | Eduardo Nájera-Hillman | Daniel Flores-Díaz
- 2:24** FIFTEEN YEARS OF HAWKSBILL (*Eretmochelys imbricata*) CONSERVATION IN EL SALVADOR: A HISTORY OVERVIEW AND LESSONS LEARNED.  
**Ana Vilma Henriquez Pocasangre** | Sofía Beatriz Chavarría Pérez | Melissa Ivette Valle Linares | Ramón Neftaly Sánchez Romero | Carlos Mario Pacheco Turcios | Marvin Ernesto Pineda Menjívar | Michael Liles | Alexander Gaos | Ingrid Yañez
- 2:36** SHELLBANK: A TRANSNATIONAL MARINE TURTLE DNA TRACEABILITY TOOL  
**Christine A Madden Hof** | Michael P Jensen | Erin J La Casella | Kelly Morgan | Greta J Frankham
- 2:48** SEA TURTLE CONSERVATION AT THE PANAMENIAN CARIBE; WHAT ELSE CAN WE DO?  
**Raul Garcia** | Roldan Valverde
- 3:00** IN-DEPTH BIOECOLOGICAL AND CONSERVATION ASSESSMENT OF *Chelonia mydas* IN THE GULF OF VENEZUELA  
**Hector Barrios-Garrido** | Nínive Espinoza-Rodríguez | Daniela Rojas-Cañizales | Jordano Palmar | Martin Oquendo | Royner Carrasquero | María Gabriela Montiel-Villalobos | María José Petit-Rodríguez | María Gabriela Sandoval | Graciela Pulido-Petit | Natalie Wildermann | Mark Hamann
- 3:12** OVER 20 YEARS OF THE PROCTMM STRENGTHENING THE CONSERVATION OF SEA TURTLES IN THE COLOMBIAN CARIBBEAN  
**Guimar Aminta Jauregui-Romero** | Carmen Lucia Noriega-Hoyos | Nataly Morales-Rincón | Jorge Bernal-Gutiérrez | Ana María Pacheco | Karen Pabón-Aldana

## 3 PM – 5 PM: ART MURAL HANDPRINTS

Mezzanine 2<sup>nd</sup> Floor  
22<sup>nd</sup> MARCH 2023

## 3:30 PM – 4:00 PM: AFTERNOON BREAK

### 4:00 PM: SESSION 11: POPULATION BIOLOGY AND MONITORING #3

**Chairs:** Ximena Vélez-Zuazo, Pilar Santidrián Tomillo, Rocío Álvarez-Varas, Alberto Abreu-Grobois

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- 4:00** EVIDENCE OF POLYANDRY AND POLYGyny IN LOGGERHEAD SEA TURTLE FROM SOUTHWEST ATLANTIC  
Laís Amorim | Lara Chieza Caliman | Ana Carolina Barcelos | Paula Rodrigues Guimarães | Jacob Lasala | Ana Claudia Marcondes | **Sarah Maria Vargas**
- 4:12** FIRST REGIONAL CENSUS OF THE OLIVE RIDLEY NESTING IN ATLANTIC AFRICA REVEALS WEST-CENTRAL AFRICA IS HOSTING THE LARGEST OLIVE RIDLEY TURTLE BREEDING COLONY IN THE ATLANTIC  
Mensah Akomedi | Tidiane Diaby | Isidore Ayissi | Henry Raynus | Gilles Soro | Ursula Koumbo Tagagoum | Marc Girondot | **Alexandre Girard**
- 4:24** (LAST MINUTE WITHDRAWAL)
- 4:36** MIXED-STOCK AGING ANALYSIS REVEALS VARIABLE GREEN SEA TURTLE MATURITY RATES IN A RECOVERING POPULATION  
**Cali N. Turner Tomaszewicz** | Larisa Avens | Erin L. LaCasella | Tomoharu Eguchi | Peter H. Dutton | Robin A. LeRoux | Jeffrey A. Seminoff
- 4:48** GENETIC COMPOSITION AND ORIGIN OF GREEN TURTLES FORAGING AT THE BANC D'ARGUIN NATIONAL PARK, MAURITANIA  
**Ana Rita Patrício** | Sophia Coveney | Anna Barbanti | Castro Barbosa | Annette Broderick | Nahi El Bar | Joana Hancock | Aissa Regalla | Cheibani Senhory | Ebyte Sidina | Benoît de Thoisy | Dominic Tilley | Sam B. Weber | Paulo Catry



## 4:00 PM: SESSION 12: CONSERVATION, MANAGEMENT AND POLICY #2

**Chairs:** Brad Nahill, Aliko Panagopoulou, Matthew Godfrey, Shaleyla Kelez

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- 4:00** FIVE YEARS OF PROTECTING SEA TURTLES WITH DOGS AND DRONES ON BOA VISTA, CAPE VERDE: A REVIEW  
**Thomas Reischig** | Marcel Maierhofer | Adilson Monteiro | Euclides Resende | Hiltrud Cordes
- 4:12** ^THE DECADAL EVOLUTION OF TECHNOLOGY IN COMMUNITY-BASED SEA TURTLE CONSERVATION IN KENYA  
**Hashim Omar Said** | Lily Dali Mwasi | Hassan Bwanamkuu Mohamed
- 4:24** \*FIND THE TUNISIAN PIECE OF THE CONSERVATION PUZZLE: TUNSEA AS A PLATFORM TO COLLECT DATA ON MARINE TURTLES IN TUNISIA.  
**Hamed Mallat** | Emna Derouiche | Sahar Chebaane | Malek Azzabi | Marwen Abderrahim | Yassine Ramzi Sghaier | Imed Jribi
- 4:36** AN ETHICAL TOOL FOR THE LIFE ASSESSMENT OF LONG-TERM MARINE TURTLES IN RESCUE CENTERS.  
**Daniela Freggi** | Andrea Badaile
- 4:48** SEA TURTLES STRANDING RESEARCH: A SYSTEMATIC REVIEW  
Daiane Santana Marcondes | **Gabriel Fraga da Fonseca** | Maikon Di Domenico | Camila Domit | Mauricio Cantor

**5:05 PM – 5:20 PM: SHORT BREAK**

## 5:20 PM – 6:20 PM: SPECIAL SESSION

### The Ultimate Goal of Hatcheries: Finding a Balance between Business and Conservation

#### Moderator:

Nicholas Pilcher PhD, *National Center for Wildlife/Saudi Arabia, Marine Research Foundation/Malaysia*

#### Panelists:

Eblin Vianey Pérez Castillo, *Asociación Caguama/Colombia*  
Gustavo Lara, *Ministerio de Ambiente y Desarrollo Sostenible/Colombia*  
Jeanette Wyneken PhD, *Florida Atlantic University/USA*  
Diego Amorocho PhD, *CIMAD/Colombia*

**Bolivar Ballroom C - D - B - E, 22<sup>nd</sup> MARCH 2023**

## 6:25 PM – 7:25 PM: MEET THE POSTER

### AUTHOR(S) SESSION #2

Conservation, Management and Policy  
Education, Outreach, and Advocacy  
Fisheries and Threats  
Nesting Biology  
Population Biology and Monitoring

**Cartagena de Indias Meeting Room / Cartagena de Indias Mezzanine /  
Guacayamo Mezzanine,  
22<sup>nd</sup> MARCH 2023**

## 6 PM – 11 PM: MTSG MEETING

**Bolivar Ballroom A – F, 22<sup>nd</sup> MARCH 2023**

## 7:30 PM – 10:30 PM: STUDENT EVENTS

**Student Social Mixer, 22<sup>nd</sup> March 2023**

**Speed Chatting with the Experts  
Turtle Trading Post**

**Bolivar Ballroom C - D  
22<sup>nd</sup> MARCH 2023**

<b>THURSDAY 23<sup>rd</sup> MARCH AT-A-GLANCE</b>		
<b>On-Site Registration, Help and Information, T-Shirt Sales</b>	Foyer Bolivar Ballroom	8 am – 12 pm 1 pm – 3 pm
<b>Oral Presentation Upload</b> (last chance to upload presentations for Friday's talks)	Foyer Bolivar Ballroom	8 am – 12 pm 1 pm – 3 pm
<b>Exhibitors and Vendors</b>	Guacamayo meeting room	8:30 am – 7:15 pm
<b>Silent Auction</b>	Kalamary room I	9 am – 4 pm
<b>Poster Display</b>	Cartagena de Indias meeting room and Foyer Bolivar	All day
<b>In-water Biology II</b>	Bolivar Ballroom (A-F)	8:30 am – 10:20 am
<b>Anatomy, Physiology and Health I</b>	Bolivar Ballroom (C-D)	8:30 am – 10:20 am
<b>In-water Biology III</b>	Bolivar Ballroom (A-F)	10:50 am – 12:40 pm
<b>Education, Advocacy and Outreach</b>	Bolivar Ballroom (C-D)	10:50 am – 12:28 pm
<b>Travel Grant Chairs Lunch</b>	Chivas Restaurant	12:30 pm – 2 pm
<b>In-water Biology IV</b>	Bolivar Ballroom (A-F)	2 pm – 3:26 pm
<b>Fisheries and Threats III</b>	Bolivar Ballroom (C-D)	2 pm – 3:26 pm
<b>Art Mural Handprints</b>	Mezzanine 2 <sup>nd</sup> Floor	3 pm – 5 pm
<b>Anatomy, Physiology and Health II</b>	Bolivar Ballroom (A-F)	4 pm – 5:02 pm
<b>Fisheries and Threats IV</b>	Bolivar Ballroom (C-D)	4 pm – 5:02 pm
<b>Special Session: Community-Based Conservation of Marine Turtles: The Next Generation</b>	Bolivar Ballroom (C-D-B-E)	5:20 pm – 6:20 pm

**THURSDAY 23<sup>rd</sup> MARCH AT-A-GLANCE**

<p><b>Poster Session III: Meet the Authors (Anatomy, Physiology and Health; Fisheries and Threats; In-water Biology; Population Biology &amp; Monitoring; Social, Economic, and Cultural Studies)</b></p>	<p>Cartagena de Indias meeting room and Foyer Bolivar</p>	<p>6:25 pm – 7:25 pm</p>
<p><b>Live Auction</b></p>	<p>Bolivar Ballroom (C-D-B-E)</p>	<p>8 pm – 12 am</p>

## 8:30 AM: SESSION 13: IN-WATER BIOLOGY #2

**Chairs:** Alexander Gaos, Summer L. Martin, Gabriela Velez-Rubio, Kara Dodge, Katharine Hart

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- 8:30** DIETARY PLASTICITY LINKED TO DIVERGENT GROWTH TRAJECTORIES IN A CRITICALLY ENDANGERED SEA TURTLE  
**Matthew D. Ramirez** | Larisa Avens | Anne B. Meylan | Donna J. Shaver | Angela R. Stahl | Peter A. Meylan | Jamie M. Clark | Lyndsey N. Howell | Brian A. Stacy | Wendy G. Teas | Kelton W. McMahon
- 8:42** WHERE DO EASTERN PACIFIC LEATHERBACK TURTLES DISPERSE DURING THEIR PELAGIC JUVENILE PHASE?  
**Tony Candela** | Philippe Gaspar | George L. Shillinger
- 8:54** DISPERSAL OF JUVENILE LEATHERBACK TURTLES FROM DIFFERENT CARIBBEAN NESTING BEACHES: A MODEL STUDY  
Philippe Gaspar | Tony Candela | **George L. Shillinger**
- 9:06** FEEDING INTERACTIONS BETWEEN HAWKSBILLS TURTLES AND REEF FISH IN SANDY BAY WEST END MARINE RESERVE, ROATÁN, HONDURAS  
Benjamin Streit | Lidia Salinas | **Stephen Dunbar**
- 9:18** RESOURCE SELECTION BY GREEN TURTLES: INSIGHTS FROM FORAGING HABITATS AT THE NORTHERN EDGE OF THE EASTERN PACIFIC RANGE  
**Andrew S Maurer** | Garrett E Lemons | Sheila V Madrak | Bryant Chesney | Tomo Eguchi | Jeffrey A Seminoff
- 9:30** ENVIRONMENTAL FACTORS AFFECT DIVE DURATION AND SPACE USE IN JUVENILE CARIBBEAN HAWKSBILL SEA TURTLES (*Eretmochelys imbricata*)  
Jordan Matley | Jonathan Jossart | Lora Johansen | Scott Eanes | **Paul Jobsis**
- 9:42** \*SHOULD I STAY OR SHOULD I GO? ENVIRONMENTAL DRIVERS OF RESIDENCE AND OUTWARD TRANSIT DURING FORAGING  
**Emily Webster** | Mark Hamann | Stephanie Duce | Nicholas Murray | Col Limpus
- 9:54** \*LOGGERHEAD SEA TURTLES SHOW BEHAVIORAL PLASTICITY WHEN USING NERITIC FORAGING AREAS: THE CASE IN THE ADRIATIC SEA FROM 37 YEAR OF CAPTURE-MARK-RECAPTURE  
**Giulia Baldi** | Giovanni Furi | Massimo Del Vecchio | Pasquale Salvemini | Carola Vallini | Valeria Angelini | Sauro Pari | Kamyla Lombardi Moraes | Chiara Profico | Vincenzo Olivieri | Dimitris Margaritoulis | Alan F. Rees | Anxhela Çurri | Sandra Hochscheid | Daniela Freggi | Bojan Lazar | Paolo Luschi | Paolo Casale
- 10:06** \*INTERACTIONS AMONG HAWAIIAN HAWKSBILLS SUGGEST PREVALENCE OF SOCIAL BEHAVIORS IN MARINE TURTLES

## 8:30 AM: SESSION 14: ANATOMY, PHYSIOLOGY AND HEALTH #1

**Chairs:** Daphne Wrobel Goldberg, Amanda Southwood Williard, Roldan Valverde, Jeanette Wyneken

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- 8:30** \*ANNUAL MONITORING OF THE FREQUENCY OF NUCLEAR ABNORMALITIES IN PERIPHERAL BLOOD OF GREEN TURTLE (*Chelonia mydas*) OF QUINTANA ROO: ASSOCIATION OF ENVIRONMENTAL AND BIOLOGICAL FACTORS  
**Claudia Lorena Rodríguez Salazar** | Mauricio Comas García | Tania Zenteno Savin | Vanessa Labrada Martagón
- 8:42** \*METABOLIC COST OF THE SYNCHRONOUS NESTING IN OLIVE RIDLEY SEA TURTLES  
**B. Gabriela Arango** | David C. Ensminger | Diana Daniela Moreno-Santillán | Martha Harfush-MeléndeZ | Elpidio Marcelino López-Reyes | José Alejandro Marmolejo-Valencia | Horacio Merchant-Larios | Daniel E. Crocker | José Pablo Vázquez-Medina
- 8:54** \*INTERACTIONS BETWEEN TOXIC ALGAE AND PLASTIC POLLUTION: ADDITIVE THREATS FOR GREEN SEA TURTLES (*Chelonia mydas*)?  
**Talita V. Vieira Batista** | Angel R. Moreira González | Camila Domit | Luiz L. Mafra Júnior
- 9:06** \*INCUBATION TEMPERATURE, MORPHOLOGY, AND LOGGERHEAD (*Caretta caretta*) SEA TURTLE HATCHLING HYDRODYNAMICS  
**Alexis K. Moyle** | Sarah L. Milton
- 9:18** \*INFLUENCE OF PLASTICIZER ON THE GREEN TURTLE MICROBIOME  
**Mariana Santos Ingles** | Vitoria Bonfim Iurk | Fernanda Fecci | Mario R C Meira-Filho | Camila Domit | Marcos Pileggi
- 9:30** \*OCCURRENCE OF FIBROPAPILLOMATOSIS IN GREEN TURTLES (*Chelonia mydas*) IN RELATION TO ENVIRONMENTAL CHANGES IN COASTAL ECOSYSTEMS IN TEXAS AND FLORIDA: A RETROSPECTIVE STUDY  
**Costanza Manes** | Raymond Carthy | Daniele Pinton | Alberto Canestrelli | Ilaria Capua
- 9:42** MONITORING CHEMICAL EXPOSURE AND EFFECT USING CELL-BASED BIOASSAYS  
**Kimberly Finlayson** | Grace Perkins | Janelle Kenney | Col Limpus | Fred Leusch | Christine Madden Hof | Jason van de Merwe

**9:54** \*ASSESSING THE HEALTH IMPACT OF PLASTIC-POLLUTION ON GREEN SEA TURTLES (*Chelonia mydas*) IN ECUADOR, COMPARING THE GALÁPAGOS NATIONAL PARK, MACHALILLA NATIONAL PARK, AND THE MAINLAND.  
**Juan Pablo Muñoz-Pérez** | Gregory A. Lewbart | Helen Chadwick | Tania Toapanta | Elvis D. Okoffo | Patricia Secoura | Daniela Alarcón-Ruales | Jen S. Jones | Ceri Lewis | Fernando Cisneros | Esteban Cobos | Cristina Vintimilla-Palacios | Felipe Vallejo | Cristina Miranda | Rubén Alemán | Kamila Escobar | Jason Castañeda | Bryan Wallace | Brendan J. Godley | Matthew Cole | Penelope Lindeque | Shelly Vaden | Kevin V. Thomas | Carlos A. Valle | Kathy A. Townsend

**10:20 AM – 10:50 AM: MORNING BREAK**

**10:50 AM: SESSION 15: IN-WATER BIOLOGY #3**  
**Chairs:** Alexander Gaos, Summer L. Martin, Gabriela Velez-Rubio, Kara Dodge, Katharine Hart  
**BOLIVAR BALLROOM A - F, 23<sup>rd</sup> MARCH 2023**

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**10:50** INTER- AND INTRASPECIFIC VARIATION IN TROPHIC ECOLOGY OF MARINE TURTLES: FREQUENCY, POTENTIAL DRIVERS, AND IMPLICATIONS FOR CONSERVATION  
**Christine Figgner** | Joseph Bernardo | Pamela T Plotkin

**11:02** USING MINIMUM APPROACH DISTANCE TO QUANTIFY SIZE-MEDIATED SEA TURTLE RESPONSE BEHAVIOR AT ARTIFICIAL REEFS IN THE NORTHERN GULF OF MEXICO  
**Tabitha Renee Siegfried** | Jackson Reimer | Emma Roberto | Christopher Noren | Alex Vidal | Kristi Dixon | Morgan Dubois | Susan Piacenza

**11:14** PRELIMINARY OBSERVATIONS ON IMPLANTATION AND EFFICACY OF INTERNAL ACOUSTIC TAGS IN LOGGERHEAD SEA TURTLES (*Caretta caretta*) AND EXTERNAL ACOUSTIC TAGS IN LEATHERBACK SEA TURTLES (*Dermochelys coriacea*)  
**Kara Dodge** | Charles Innis | Adam Kennedy | Jeff Kneebone | Linda Lory | Sarah DiCarlo | Sarah Perez | Alessia Brugnara | Kristen Luise | Deana Edmunds | Christine Sinnigen | Melissa Joblon | Kathryn Tuxbury | Mary Beth Tims | Nina Nahvi | Edward Kim | Emily Jones

**11:26** ESTIMATING SCUTE GROWTH RATES USING RADIOCARBON ANALYSIS  
**Amy Wallace** | Jenna Bennett | William Patterson | III | Hannah Vander Zanden

**11:38** FORAGING ECOLOGY OF EAST PACIFIC GREEN TURTLES (*Chelonia mydas agassizii*) IN PERU: RELATIONSHIPS WITH ONTOGENY AND ENVIRONMENTAL VARIABILITY  
 Javier Quiñones | Jeffrey Seminoff | Evelyn Paredes-Coral | Vanessa Bachmann | Sixto Quispe | Jennifer Chauca | **David Lizardo Sarmiento Barturén**



- 11:50** FORAGING ECOLOGY OF EASTERN PACIFIC HAWKSBILL SEA TURTLES: A HIGH-RESOLUTION STUDY IN A FORAGING GROUND IN THE GULF OF CALIFORNIA, MEXICO  
**Lourdes Martinez Estevez** | Diana Steller | Kelly M. Zilliacus | Juan Pablo Cuevas Amador | Felipe Cuevas Amador | Dorota Szuta | Scott D. Miller | Gage H. Dayton | Bernie R. Tershy | Donald A. Croll
- 12:02** \*INFERRING HABITAT USE AND FORAGING ECOLOGY DURING SEA TURTLE “LOST YEARS” USING STABLE ISOTOPE ANALYSIS  
**Tiffany M. Dawson** | Sierra P. Bornheim | Katrina F. Phillips | Kate L. Mansfield
- 12:14** \*GUAM'S GREEN SEA TURTLES EXHIBIT MULTIPLE STRATEGIES FOR INTER-NESTING MOVEMENTS AND POST-NESTING MIGRATIONS INTO THE WESTERN PACIFIC  
**Josefa M.B. Muñoz** | Alexander R. Gaos | Camryn D. Allen | Jessy R. Hapdei | Summer L. Martin | T. Todd Jones | Shaya Honarvar | Brian W. Bowen
- 12:26** \*COMBINING SATELLITE AND ACOUSTIC TELEMETRY ENABLES ANALYSIS OF POST-NESTING MOVEMENT PATTERNS FOR NORTHWEST ATLANTIC OCEAN LEATHERBACK SEA TURTLES (DERMOCHELY CORIACEA)  
**Derek M. Aoki** | Annie Page-Karjian | Justin R. Perrault | Jeffrey R. Guertin | Scott Benson | Andrew DiMatteo | Claudio Quesada-Rodriguez | Aimee Hoover | George L. Shillinger

## **10:50 AM: SESSION 16: EDUCATION, OUTREACH, AND ADVOCACY #1**

**Chairs:** Rebecca Mott, Zoe A. Meletis, Guiomar Aminta Jauregui Romero,  
Mustapha Aksissou

**BOLIVAR BALLROOM C - D, 23<sup>rd</sup> MARCH 2023**

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- 10:50** GYPSY TURTLE: A MUSICAL, PLAYFUL AND TECHNOLOGICAL STRATEGY FOR THE PROTECTION OF SEA TURTLES FROM ENVIRONMENTAL EDUCATION.  
**Diana del Pilar Ramirez**
- 11:02** NATURE EDUCATION-BASED SEA TURTLE PROJECTS: INCLUDING NATURE IN OUR EDUCATIONAL PROGRAMS IN ORDER TO ENHANCE EMOTIONAL CONNECTIONS & ENVIRONMENTAL BEHAVIOURS  
**Georgina Zamora Quílez** | Juan Daniel Guerrero Blanco
- 11:14** GROWING THE SEA TURTLE WEEK CAMPAIGN TO RAISE AWARENESS  
 Bethany Holtz\* | Brad Nahill | Paula Von Weller
- 11:26** *(LAST MINUTE CHANGE TO POSTER)*
- 11:38** ENVIRONMENTAL EDUCATION IN PANDEMIC: VIRTUALITY AS A TOOL TO BRING THE OCEAN AND SEA TURTLES CLOSER TO EDUCATIONAL CENTRES AND HOMES

**Ayelén Pacheco Viola** | Vanessa Vigo | Juan Manuel Ordoqui | Gabriela Vélez - Rubio  
| Carolina Lewis | Sharon Nuñez | Lauren Rincón | Joaquin Fernández | Gabriela  
Nusspaumer

**11:50** \*INNOVATIVE EDUCATIONAL METHODS FOR RAISING AWARENESS ABOUT SEA  
TURTLES AND DEVELOPING STANDARDIZED MONITORING PROTOCOLS: A PILOT  
PROJECT USING THE ADDIE MODEL IN PACIFIC NICARAGUA

**Felicity Amoroso** | Pamela Fletcher

**12:02** ^PRESERVING HAITI'S ENDANGERED SEA TURTLE POPULATIONS THROUGH  
COMMUNITY-BASED EDUCATION AND OUTREACH INITIATIVES

**Jamie Aquino** | Francklin Barbier | Claude Pressoir | Charlens Calixte | Cleeford  
Joseph | Myson Samedi | Courtney Vail | Annabelle Brooks

**12:14** AMIGOS DE LAS TORTUGAS: USING PARTNERSHIPS TO BRING TOGETHER  
COMMUNITIES IN NEED

**Rebecca Mott** | Yvette Fernandez

## 12:30 PM – 2:00 PM: LUNCH BREAK

## 12:30 PM – 2 PM: Travel Grant Chairs Lunch

**Chivas Restaurant**  
**23<sup>rd</sup> MARCH 2023**

## 2:00 PM: SESSION 17: IN-WATER BIOLOGY #4

**Chairs:** Alexander Gaos, Summer L. Martin, Gabriela Velez-Rubio, Kara Dodge,  
Katharine Hart

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**2:00** \*IDENTIFYING CRITICAL IN-WATER HABITAT FOR LEATHERBACK SEA TURTLES  
(*Dermochelys coriacea*) NESTING AT SANDY POINT NWR, ST. CROIX USVI  
**Nina I. Mauney** | Corey Garza | Elliott L. Hazen | Claudia D. Lombard | Birgitte I.  
McDonald | Thomas Connolly | Kelly R. Stewart

**2:12** \*'LOST YEARS' SEA TURTLE DISPERSAL IN THE GULF OF MEXICO  
**Katrina Phillips** | Nathan Putman | Kate Mansfield

**2:24** \*UNUSUAL BENTHIC EPIBIOTA OF GREEN TURTLES (*Chelonia mydas*) AS INDICATOR  
OF BRUMATION IN URUGUAYAN COASTAL WATERS

**Marina Belen Reyes** | M. Gabriela Palomo | Fabrizio Scarabino | Gabriela M. Vélez-Rubio

**2:36** \*IN-WATER METHODOLOGY FOR ASSESSMENT OF FEEDING HAWKSBILLS IN GORGONA NATIONAL PARK, COLOMBIAN PACIFIC.

**Juan Sebastián Ayala** | Diego Amorocho

**2:48** \*HABITAT USE OF TURTLES, SHARKS, AND RAYS ACROSS A HETEROGENOUS LANDSCAPE OFF SAONA ISLAND

**Aloyse Thais Abreu** | Elizabeth Whitman | Courtney Knauer

**3:00** FIRST STUDY TRACKING MALE GREEN TURTLES (*Chelonia mydas*) AT OGASAWARA ISLANDS REVEALED MIGRATION ROUTES AND MOVEMENT IN THE POST-BREEDING SEASON

**Takuya Fukuoka** | Chihiro Kinoshita | Shohei Kobayashi | Toshihide Kitakado | Hideaki Nishizawa | Chiyo Kitayama | Satomi Kondo

~~**3:12**~~ (LAST MINUTE WHITDRAWAL)

## 2:00 PM: SESSION 18: FISHERIES AND THREATS #3

**Chairs:** Mariela Pajuelo, Jesse F. Senko, Jeffrey Mangel, Yonat Swimmer

**BOLIVAR BALLROOM C - D, 23<sup>rd</sup> MARCH 2023**

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**2:00** \*IDENTIFYING TURTLE BYCATCH HOTSPOT AREAS IN SABAH, MALAYSIA.

**Kooi Chee Ho** | Nicolas James Pilcher

**2:12** ARE OLIVE RIDLEY AND EAST PACIFIC GREEN TURTLES OUT OF DANGER? PRELIMINARY RESULTS FROM RAPID BYCATCH ASSESSMENTS FROM NORTHWESTERN MEXICO

**Agnese Mancini** | Carlos Delgado Trejo | Nestor Davalos | Victoria Andrade Valencia | Raquel Briseño Dueñas | Diana Arely Ramos de la Torre | Joanna Alfaro Shigueto | Clara Ortíz Alvarez | Maria Isabel Miranda Marin | Karen Ocegüera Camacho | Helga Ocegüera Camacho | Jesus Lucero Romero | Anibal Murillo Lopez | Yadira Trejo Hernandez | Allison Hadden Martinez | Katherine Comer Santos | Catherine Hart | Luis Tello Sahagún | Adalberto García Domínguez | Margarita Mascareño López | Fabian Castillo | Alan Zavala Norzagaray | Cassandra Luna | Elsa Coria Galindo | Jesse Senko | Cindy Vargas | Cecilia Blasco | Heriberto Santana Hernández | Bryan P. Wallace | Jeffrey A. Seminoff

**2:24** GAS EMBOLISM IN MARINE TURTLES BYCAUGHT IN BOTTOM TRAWL FISHERIES IN THE SOUTH ATLANTIC OCEAN: AN IMPORTANT CONSIDERATION IN MORTALITY REDUCTION

**Mariluz Parga** | Danielle Monteiro | José Luis Crespo | Sergio Estima | Nicole Stacy | Yonat Swimmer | Daniel García-Párraga | Jorge Hernandez | Brian Stacy

- 2:36** RESULTS OF A LONG TERM MONITORING OF BYCATCH IN THE GULF OF GABÈS (TUNISIA): IMPACT ON SEA TURTLES  
**Mohamed Nejmeddine Bradai** | Béchir Saidi | Samira Enajjar | Lobna Ben Nakhla | Anis Zarrouk
- 2:48** BYCATCH OF MARINE TURTLES BY FRENCH LONGLINE FISHERIES IN THE SOUTHWEST INDIAN OCEAN  
**Mathieu Barret** | Marie Debord | Claire Jean | Stéphane Ciccione
- 3:00** REVISITING LOGGERHEAD BYCATCH IN THE PERUVIAN SMALL-SCALE LONGLINE FLEET  
**Mariela Pajuelo** | Joanna Alfaro-Shigueto | Jeffrey Mangel
- 3:12** MARES COMUNIDAD: WORKING WITH LOCAL COMMUNITIES IN PACIFIC MEXICO TO REDUCE SEA TURTLE BYCATCH AND IMPROVE HUMAN WELL-BEING  
**Jeffrey Seminoff** | Agnese Mancini | Victoria Andrade Valencia | Luis Tello-Sahagún | Joanna Alfaro Shigueto | Cecilia Blasco | Raquel Briseño Dueñas | Fabián Castillo Romero | Katherine Comer Santos | Elsa Coria Galindo | Nestor Dávalos | Carlos Delgado Trejo | Catherine Hart | Jesus Lucero Romero | Cassandra Luna | Margarita Mascareño López | Isabel Miranda | Anibal Murillo López | Karen Ocegüera | Helga Ocegüera | Yadira Trejo Hernández | Adalberto García Domínguez | Heriberto Santana Hernández | Diana Arely Ramos de la Torre<sup>15</sup> | Jesse Senko | Cindy Vargas | Alan Zavala Norzagaray | Bryan Wallace

**3 PM – 5 PM: ART MURAL HANDPRINTS**

**Mezzanine 2<sup>nd</sup> Floor  
 23<sup>rd</sup> MARCH 2023**

**3:30 PM – 4:00 PM: AFTERNOON BREAK**

## 4:00 PM: SESSION 19: ANATOMY, PHYSIOLOGY AND HEALTH #2

**Chairs:** Daphne Wrobel Goldberg, Amanda Southwood Williard, Roldan Valverde, Jeanette Wyneken

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**4:00** (LAST MINUTE WITHDRAWAL)

**4:12** \*GEOMETRIC MORPHOMETRY VARIANCES IN THE SKULL OF HARD-SHELL MARINE TURTLES IN THE GULF OF VENEZUELA: IDENTIFYING MULTIPLE POPULATIONS  
**Irama Perozo-Díaz** | Teresa Martínez-Leones | Natalie Wildermann | Hector Barrios-Garrido

**4:24** \*MORE THAN JUST 'FLAPPING' FLIPPERS: A NEW UNDERSTANDING OF POWERSTROKING IN NEONATE LOGGERHEAD SEA TURTLES  
**Samantha E. Trail** | Christopher J. Mayerl | John G. Capano | Armita R. Manafzadeh | Noraly M.M.E. van Meer | Richard W. Blob | Jeanette Wyneken | Elizabeth L. Brainerd

**4:36** \*ESTROGENIC HORMONAL PROFILE AND DEMOGRAPHIC PARAMETERS OF THE GREEN TURTLE (*Chelonia mydas*) MEXICAN CARIBBEAN POPULATION  
**Alma Guadalupe Vázquez Gómez** | Horacio Merchant Larios | Victor Manuel Gómez Muñoz | Vanessa Labrada Martagón

**4:48** HOW A THOUSAND COINS KILL "AOMSIN", A GREEN SEA TURTLE  
**Nantarika Chansue** | Norrapat Towanabud | Pasakorn Brikshavana | Nipon Lertsiriladakul | Rampaipat Penchome | Nopadon Pirarat | Sirawich Srisiri | Thanida Haetrakul

## 4:00 PM: SESSION 20: FISHERIES AND THREATS #4

**Chairs:** Mariela Pajuelo, Jesse F. Senko, Jeffrey Mangel, Yonat Swimmer

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**4:00** ALTERNATIVE LOBSTER FISHING METHODS TO REDUCE HAWKSBILL SEA TURTLE BYCATCH.

**Carlos Mario Pacheco Turcios** | Marvin Ernesto Pineda Menjívar | Sofía Beatriz Chavarría Pérez | Ana Vilma Henríquez Pocasangre | Ramón Neftaly Sánchez Romero | Melissa Ivette Valle Linares | Michael Liles | Alexander Gaos | Ingrid Yañez

**4:12** DEVELOPING SOLAR-POWERED NET ILLUMINATION TO REDUCE SEA TURTLE BYCATCH  
**Jesse F. Senko** | Agnese Mancini | Jennifer Blain Christen | Christopher Lue Sang | Lekelia Jenkins | John Wang

**4:24** \*CAN LED LIGHTS REDUCE SEA TURTLE BYCATCH IN A COSTA RICAN SMALL-SCALE BOTTOM-SET GILLNET FISHERY?  
**Jeffry Madrigal-Mesén** | Jesús Rojas | Randall Arauz | Mario Espinoza

**4:36** AN ENSEMBLE RANDOM FOREST FRAMEWORK FOR PROTECTED SPECIES BYCATCH ESTIMATION  
**Chris Long** | Zachary Siders | Robert Ahrens

**4:48** \*INCORPORATING MULTIDIMENSIONAL BEHAVIOR INTO A DYNAMIC MANAGEMENT TOOL FOR A CRITICALLY ENDANGERED AND MIGRATORY SPECIES  
**Nicole Barbour** | George L Shillinger | Eliezer D Gurarie | Aimee L Hoover | Philippe Gaspar | Julien Temple-Boyer | Tony Candela | William F Fagan | Helen Bailey

## 5:05 PM – 5:20 PM: SHORT BREAK

## 5:20 PM – 6:20 PM: SPECIAL SESSION

### The Ultimate Community-Based Conservation of Marine Turtles: The Next Generation

(In Spanish – simultaneous translation to English available)

#### Moderator:

Adriana A. Cortés-Gómez PhD, *SEE Turtles/Mexico*

#### Panelists:

Ruth “Chachita” Nibeth Martínez, *Leader Chocó Community/Colombia*

Jordano Palmar, *Wayuu Indigenous Community, GTTM-GV/Venezuela*

Neca Marcovaldi PhD, *Fundação Pró TAMAR/Brasil*

Alexandre Girard, *NGO RASTOMA/Africa, National Museum of Natural History/France*

**Bolivar Ballroom C - D - B - E, 23<sup>rd</sup> MARCH 2023**

**6:25 PM – 7:25 PM: MEET THE POSTER**

**AUTHOR(S) SESSION #3**

Anatomy, Physiology and Health  
Fisheries and Threats  
In-water Biology  
Population Biology & Monitoring  
Social, Economic, and Cultural Studies

**Cartagena de Indias meeting room and Foyer Bolivar,  
23<sup>rd</sup> MARCH 2023**

**8 PM – 12 AM: LIVE AUCTION**

**Bolivar Ballroom C – D – B- E  
23<sup>rd</sup> MARCH 2023**

**FRIDAY 24<sup>th</sup> MARCH AT-A-GLANCE**

<b>Exhibitors and Vendors</b>	Guacamayo meeting room	9 am – 1 pm
<b>Population Biology and Monitoring IV</b>	Bolivar Ballroom (A-F)	9 am – 11 am
<b>Conservation, Management and Policy III</b>	Bolivar Ballroom (C-D)	9 am – 11 am
<b>Closing Remarks</b>	Bolivar Ballroom (C-D-B-E)	11:30 am – 1 pm
<b>Student Award Judges Lunch</b>	Chivas Restaurant	1 pm – 3 pm
<b>Posters Removal</b>		Before 1 pm
<b>Mural Unveiling Ceremony</b>	Mezzanine 2 <sup>nd</sup> Floor	2:30 pm – 3 pm
<b>ISTS Business Plenary</b>	Bolivar Ballroom (C-D-B-E)	3 pm – 5 pm
<b>Awards Ceremony</b>	Bolivar Ballroom (A-F)	7 pm – 8 pm
<b>Farewell Banquet</b>	Bolivar Ballroom (C-D-B)	8 pm – 9:30 pm
<b>Closing Party</b>	Bolivar Ballroom (A-F)	9:30 pm – 11 pm



## 9:00 AM: SESSION 21: POPULATION BIOLOGY AND MONITORING #4

**Chairs:** Ximena Vélez-Zuazo, Pilar Santidrián Tomillo, Rocío Álvarez-Varas, Alberto Abreu-Grobois

**BOLIVAR BALLROOM A - F, 24<sup>th</sup> MARCH 2023**

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- 9:00** NATAL HOMING OF MALE GREEN TURTLES (*Chelonia mydas*) IN AVES ISLAND, VENEZUELA AND ATOL DAS ROCAS, BRAZIL  
**Marco García-Cruz** | Kathryn M Rodríguez-Clark | Karen A Bjorndal | Alan B Bolten | Eugenia Naro-Maciel | Brian Shamblin | Richard van der Wal | Edith van der Wal | Carlos Carreras
- 9:12** \*ATLANTIC-WIDE CONNECTIVITY IN ASCENSION ISLAND GREEN TURTLES, REVEALED BY MITOCHONDRIAL DNA  
**Sophia Coveney** | Eva Jiménez-Guri | Samantha Ball | Annette C Broderick | Brendan J Godley | Joana M Hancock | Welton Pereira | Aissa Regalla | Rita G Rocha | Dominic Tilley | Benoît de Thoisy | Sam B Weber | Sarah Maria Vargas | Ana Rita Patrício
- 9:24** \*WHOLE MITOCHONDRIAL GENOME SEQUENCING TO IMPROVE POPULATION GENETIC INFERENCE AND PHYLOGENY OF MEDITERRANEAN LOGGERHEAD TURTLES  
**Livia Tolve** | Alessio Iannucci | Luisa Garofalo | Andrea Ninni | Andrea Capobianco Dondona | Cristiano Cocumelli | Alessandra De Lucia | Mattia Falconi | Angela Formia | Federico Iacovelli | Cecilia Mancusi | Erica Marchiori | Letizia Marsili | Toni Mingozzi | Stefano Nannarelli | Chiara Natali | Giuliana Terracciano | Marco Alberto Luca Zuffi | Andrea Novelletto | Claudio Ciofi
- 9:36** \*GENOMICS OF THE SEA TURTLE COLONIZATION UNDER GLOBAL WARMING  
**Astrid Luna-Ortiz** | Gisela Marín-Capuz | Anna Barbanti | Cinta Pegueroles | Jose Luis Crespo-Picazo | Silvia Giralt | Elena Abella | Marta Pascual | Carlos Carreras
- 9:48** GENOMICS AND CONSERVATION OF THE MEDITERRANEAN LOGGERHEAD (*Caretta caretta*) NESTING POPULATIONS: STRUCTURING, ADAPTATION AND PRIORITISATION.  
Anna Barbanti | Cinta Pegueroles | Dimitris Margaritoulis | Alan Rees | Oguz Turkozan | Celal Ulger | Mona Khalil | Robin Snape | Annette Broderick | Andreas Demetropoulos | Abdulmaula Hamza | Yaniv Levy | **Marta Pascual** | Carlos Carreras
- 10:00** GREEN, YELLOW OR BLACK? GENETIC DIFFERENTIATION AND ADAPTATION SIGNATURES IN A HIGHLY MIGRATORY MARINE TURTLE  
**Rocio Álvarez-Varas** | Noemi Rojas-Hernandez | Maike Heidemeyer | Cynthia Riginos | Hugo A. Benitez | Raul Araya-Donoso | Eduardo Resendiz | Monica Lara-Uc | Daniel A. Godoy | Juan Pablo Muñoz-Perez | Daniela E. Alarcon-Ruales | Joanna Alfaro-Shigueto | Clara Ortiz-Alvarez | Jeffrey C. Mangel | Juliana A. Vianna | David Veliz
- 10:12** DIFFERENTIAL GENE EXPRESSION BETWEEN AND WITHIN SPECIES OF SEA TURTLE EXPOSED TO A BIOLOGICALLY REALISTIC THERMAL STRESS

**Blair Bentley** | Nicola Mitchell | Brian Haas | Scott Whiting | Oliver Berry

**10:24** CONNECTIONS BETWEEN SENSORY AND IMMUNE RESPONSES AND DIFFERENCES IN THE HIGHLY CONSERVED SEA TURTLE GENOMES

**Camila Mazzoni** | Elisa Ramos | Tomas Carrasco-Valenzuela | Larissa Arantes | Yaron Tikochinski | Peter Dutton | Blair Bentley | Lisa Komoroke

**10:36** \*TO WHOM BELONGS THE GENOTYPE OF THE UMBILICAL CORD? EXPLORING NON-INVASIVE METHODS FOR SEA TURTLES

**Gisela Marín-Capuz** | Marta Pascual | Cinta Pegueroles | Carlos Carreras

**10:48** EXPANDING THE SEA TURTLE GENOMICS TOOLBOX TO CHARACTERIZE DIET AND GUT MICROBIOME IN THE SOUTHEASTERN UNITED STATES

**Erin E. Seney** | Christine M. Sarkis | Brandon D. Hoenig | Stephanie A. Gaspar | Genesys Santana | Anna M. Forsman

## **9:00 AM: SESSION 22: CONSERVATION, MANAGEMENT AND POLICY #3**

**Chairs:** Brad Nahill, Aiki Panagopoulou, Matthew Godfrey, Shaleyla Kelez

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**9:00** \*STRANDING PATTERNS OF *Caretta caretta* IN SOUTHEASTERN AND SOUTHERN BRAZIL: HIGH (AND INCREASING) MORTALITY RATES

**Gabriel Fraga da Fonseca** | Maikon Di Domenico | Pedro Volkmer de Castilho | Maurício Cantor | André Barreto | Camila Domit

**9:12** NASTNET, A NEW INITIATIVE TO BOOST SEA TURTLE CONSERVATION ACROSS NORTH AFRICA

Abdulgula Hamza | **Imed Jribi** | Wassim Amdrous

**9:24** SHOULD HEAD-STARTING BE IN THE CONSERVATION TOOLBOX FOR SEA TURTLES?

**Sean Alexander Williamson** | Richard David Reina | Nicki Mitchell | Anna Ortega | George Shillinger

**9:36** \*HEADSTARTED GREEN TURTLES EXHIBIT INCREASED SURVIVAL TO ADULTHOOD AND THE CAPACITY TO RECOVER WILD, DECLINING POPULATIONS: A CAYMAN ISLANDS CASE STUDY

Anna Antonia Ortega\* | Walter Mustin | Nicola Mitchell | Philip Miller | George Shillinger

**9:48** \*WARM BEACH, WARMER TURTLES: USING DRONE-MOUNTED THERMAL INFRARED SENSORS TO MONITOR SEA TURTLE NESTING ACTIVITY

**Bárbara Sellés Ríos** | Eleanor Flatt | Johan Ortiz García | Júlia García Colomé | Orane Latour | Andrew Whitworth

- 10:00** INTRODUCTION AND IMPACT OF TURTLE FRIENDLY LIGHTING TO CRITICAL SEA TURTLE NESTING HABITAT IN THE CAYMAN ISLANDS  
**Jane L. Hardwick** | Timothy J. Austin | Gina Ebanks-Petrie | Janice M. Blumenthal
- 10:12** REGIONAL ACTION PLAN FOR NORTHWEST ATLANTIC LEATHERBACK SEA TURTLES, *Dermochelys coriacea*, IN THE WIDER CARIBBEAN REGION  
**Soraya Wijntuin**
- 10:24** \*SEA TURTLES AT THE SEAFLOWER BIOSPHERE RESERVE, COLOMBIA CARIBBEAN, LIFE AND THREATS: COLLABORATIVE EFFORTS  
**Diana Carolina Castaño Giraldo** | Julián Alberto Prato Valderrama
- 10:36** MITIGATING SEA TURTLES BYCATCH ON THE PERUVIAN MAHI MAHI LONGLINE FISHERY: A SUCCESS STORY AFTER 18 YEARS OF WORK  
Evelyn Luna Victoria | Aimee Leslie | Samuel Amoros | Allyson Caballero | Angel Farid Mondragon | Nicolas Rovegno | Mariluz Parga | Nelly de Paz | Milagros Mitma |  
**Shaleyla Kelez**
- 10:48** SOCIALISATION AND CHALLENGES IN THE IMPLEMENTATION OF TURTLE EXCLUDER DEVICE (TEDS) IN MALAYSIA  
**Liyana I. Khalid** | Nicolas J. Pilcher

**11:00 AM – 11:30 AM: MORNING BREAK**

# CLOSING SESSION

FRIDAY 24<sup>th</sup> MARCH 11:30 AM – 1:00 PM

Bolivar Ballroom C - D - B - E

## Keynote Address

**Rod Mast, PhD**

*Oceanic Society, President & CEO*

SWOT - From Local to Global, and Back Again

**Luis G. Naranjo, PhD**

*WWF-Colombia, Conservation and Governance Director*

Together possible: an example of public-private alliance for sea turtle conservation

## Closing Remarks

**ISTS President Diego Amorocho**

**1 PM – 2:30 PM: LUNCH BREAK**

**1 PM – 3 PM: Student Awards Judges Lunch**

**Chivas Restaurant**

**2:30 PM – 3 PM: MURAL UNVEILING CEREMONY**

**Mezzanine 2<sup>nd</sup> Floor**

## **3 PM – 5 PM: ISTS BUSINESS PLENARY**

**Bolivar Ballroom C – D – B - E  
24<sup>th</sup> MARCH 2023**

*Please attend the ISTS Plenary Meeting to discuss ISTS business operations, vote on ISTS 2023 resolutions, and learn about the election results for 2024.*

## **7 PM – 8 PM: AWARDS CEREMONY**

**Bolivar Ballroom A - F  
24<sup>th</sup> MARCH 2023**

## **8 PM – 9:30 PM: FAREWELL BANQUET**

**Bolivar Ballroom C – D – B  
24<sup>th</sup> MARCH 2023**

## **9:30 PM – 11 PM: CLOSING PARTY**

**Bolivar Ballroom A - F  
24<sup>th</sup> MARCH 2023**

## POSTER SESSION

### 6:25 PM – 7:25 PM: MEET THE POSTER AUTHOR(S) SESSIONS

Cartagena de Indias meeting room and Foyer Bolivar,

**Tuesday, 21<sup>st</sup> MARCH 2023:**

Anatomy, Physiology and Health  
Conservation, Management and Policy  
Education, Outreach and Advocacy  
In-water Biology  
Nesting Biology  
Social, Economic, and Cultural Studies

**Wednesday, 22<sup>nd</sup> MARCH 2023:**

Conservation, Management and Policy  
Education, Outreach, and Advocacy  
Fisheries and Threats  
Nesting Biology  
Population Biology and Monitoring

**Thursday, 23<sup>rd</sup> MARCH 2023:**

Anatomy, Physiology and Health  
Fisheries and Threats  
In-water Biology  
Population Biology & Monitoring  
Social, Economic, and Cultural Studies

## ANATOMY, PHYSIOLOGY AND HEALTH

\*Denotes Archie Carr best student paper award candidate; ^ Denotes Grassroots paper award candidate; Presenting author in **BOLD**

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**Mitzi C. Núñez-Solano** | Israel Llamas-González | Catherine E. Hart | Jaime Rendón von Osten | Armando H. Escobedo-Galván

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