



CORAL
TRIANGLE
CENTER

Inspiring People Saving Oceans

SECOND QUARTER 2023 REPORT

CORAL TRIANGLE CENTER



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TABLE OF CONTENTS

BOARDS	iv
ABOUT US	01
CORAL TRIANGLE CENTER STRATEGIES	02
Foreword	03
On-the-ground Conservation Activities	04
Building Capacity In Marine Resource Management	07
Partnerships and Learning Networks	09
Outreach and Public Education	13
Center for Marine Conservation	16
Organizational Development	18
COLLABORATION	20

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ABOUT US

CORAL TRIANGLE CENTER

A center of excellence in tropical marine resource management:
Building local leadership for long-term conservation in the Coral Triangle



Inspiring People Saving Oceans

VISION

Healthy seas that enrich people and nature.

MISSION

To inspire and train generations to care for coastal and marine ecosystems.

VALUES

Excellence

In the quality of our teaching. In the performance and integrity of our staff.
In our commitment to being a world-class center of tropical resources management.

Local Stewardship

Based in the heart of the Coral Triangle, we maintain strong roots in the field and close ties to stakeholders at all levels. We value traditional knowledge and practices, and promote local ownership of our projects.

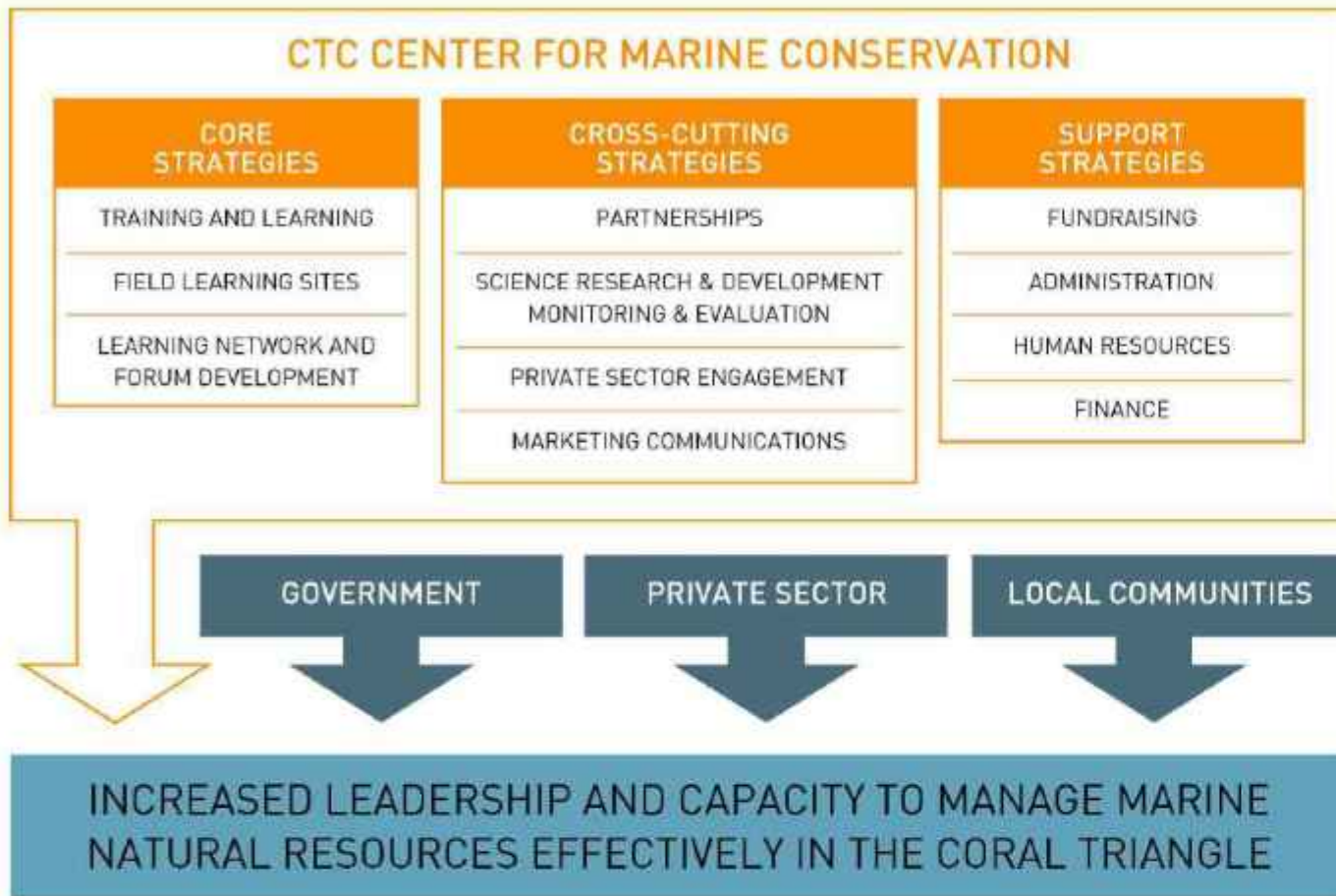
Collaboration

We build partnerships among leaders in government, communities, NGOs, education, and the private sector because only by engaging all constituencies can solutions be effective.

Result

We provide trusted information, are transparent in our actions, and hold ourselves accountable for the quality of our programs, changing our strategies as necessary and measuring our impact over time.

CORAL TRIANGLE CENTER STRATEGIES



CTC is an official development partner of the Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security (CTI-CFF) - a government-led initiative of the six countries of the Coral Triangle region namely Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and Timor-Leste. CTC supports the CTI-CFF in cross-cutting activities such as capacity building, women empowerment, local government leadership, sustainable tourism and private sector engagement. CTC is also a member of the International World Conservation Union (IUCN) and the International Coral Reef Initiative (ICRI)

FOREWORD

Transforming Global Ocean Commitments into On-the-Ground Action

On June 8, we marked World Oceans Day. It was once again the time of the year where we celebrate the ocean - the planet's life support system that regulates our climate, provides oxygen, food and livelihoods to billions, and connects us across continents.

On June 9, we marked Coral Triangle Day, shining the spotlight on the epicenter of marine biodiversity, which is home to 76% of the world's coral species, 37% of the world's reef fish species, and which supports millions of peoples' nutrition and livelihoods. The Coral Triangle includes Indonesia, Malaysia, Philippines, Papua New Guinea, Solomon Islands, and Timor-Leste.

Despite the extent to which humanity depends on the ocean and marine biodiversity, we must recognize that the abundance of environmental services that our oceans provide is finite. This underlines the urgent need to address the threats facing our seas. Harmful fishing methods, pollution, biodiversity loss and habitat degradation are just a few of the ways that human activities are seriously endangering our marine environment.

This year's World Oceans Day theme "Planet Ocean: The Tides are Changing" aims to highlight the importance of ocean health to our planet's survival, galvanize global support for ocean issues, and generate increased investment towards its management and sustainability.

This call comes after a series of inspiring global agreements and commitments for ocean protection. Last year, under the Indonesian Presidency, the G20 gave special attention to the role of the oceans to address climate change and sustainable blue economies. In December 2022, more than 195 nations agreed to protect a third of the planet for nature by 2030. The agreement, called the Kunming-Montreal Global Biodiversity Framework, is a landmark deal aimed at safeguarding the earth's biodiversity both at land and sea. In March 2023, UN Delegates reached a historic agreement on protecting marine biodiversity in international waters after nearly two decades of talks.

In Indonesia, we are moving closer towards achieving our vision to designate 32.5 million hectares or 10% of our seas as marine protected areas (MPA) by 2030. However, we need to invest in strengthening our capacity to manage these areas to ensure that they can achieve their conservation targets and provide benefits for our local communities. As we embark on developing strategies to further expand protection and meet our international commitment to protect 30% of our oceans, we should ensure that our actions are anchored on sound scientific evidence and are guided by the principles of equity and social inclusion.

We also need to reach out to a wider audience and relay the importance of protecting our seas and how everyone can contribute and act. Last month, we launched Indonesia's first ever ocean conservation-themed exhibition hall at our Center for Marine Conservation in Bali. With this exhibition we would like to reach out to the public and showcase the beauty and importance of our oceans to our daily life and our future. By using art and science, culture and technology we not only visualize the threats but also the solutions in an interactive way. Foremost, we hope our visitors come away inspired and compelled to act and care for our seas and marine life underwater.

I am inspired and hopeful that the oceans will receive the investment and partnerships needed to become healthy again and support prosperity for all. But we need speed. We need collaboration, transparency, accountability, and increased capacity to turn commitment into action now and at scale to address threats in an integrated and inclusive way.

More importantly, protecting our oceans and the Coral Triangle requires us to work at the nexus of coral reef science, conservation and management and to ensure that values, norms, traditions, inclusiveness and equity become essential guidelines to preserve the most diverse, abundant, and resilient coral reefs on the planet. We must create an environment where equitable distribution of the benefits from the ocean and its related industries becomes the norm.

Rili Djohani

Executive Director



ON-THE-GROUND CONSERVATION ACTIVITIES

Engaging Local Community through Citizen Science

For almost 30 years, there has been uncertainty regarding the total population of dugongs (Dugong dugon) in the Lease Islands marine protected area (MPA) in Maluku. To address this, CTC has conducted a dugong population survey and developed a citizen science mechanism to gather information, inviting community members in Saparua Island to report sightings of these charismatic marine mammals, as well as other protected animals, in the waters surrounding their village. The response so far has been outstanding.



The citizen science reporting mechanism is a part of the “Kalesang Dugong” collaborative program, jointly run by CTC and the Baileo Maluku Foundation. The program “Ayo Katong Lapor Dugong” or “Let’s Report Dugongs”, involves individuals completing an online Google Form using their electronic devices to record dugong encounters. The form asks for sender identity data (e.g., name, address, and contact) and other details of the sightings, including approximate number, size, location, time, and the animal’s condition. CTC introduced this mechanism in April 2023 and distributed a poster that provides information and guidance for reporting. The reporting form can be accessed via the link (bit.ly/LaporDugong) and is available in Bahasa Indonesia.

The poster was displayed in some local schools, government offices, and during capacity-building activities in the targeted villages of Boo, Porto, Mahu, Paperu, and Ihamahu on Saparua Island. In addition to raising awareness and promoting the conservation of dugongs and their seagrass habitats, the program also aims to educate community members on the critical role these species play in the marine ecosystem.



To date, CTC has received nine report submissions from the fishing community in Saparua, all of which indicated the presence of young and adult dugongs. The most promising locations to observe dugongs are in and around Boo Village and Paperu Bay during the morning or evening, where the transition occurs after the tide reaches its peak. CTC has also saved video recordings of local individuals encountering dugongs while swimming in the sea. Citizen science is not only advantageous for dugong conservation but also for the community. It offers an avenue for individuals to engage in the conservation process and acquire knowledge about the significance of dugongs and their seagrass habitats. In addition, individuals can acquire expertise and abilities that will equip them to become more efficient environmental stewards.

Managing Plastic Waste in Maluku’s Small Islands



Plastic waste poses a significant threat to the dugong population and seagrass ecosystem in the Lease Islands marine protected area (MPA) in Maluku. To mitigate the negative impact of plastic waste on the marine environment, CTC organized a training program on household waste management for women and provided education on waste for primary school students and teachers on Saparua Island as part of the “Kalesang Dugong” project.

From April 12-14, 2023, CTC, in partnership with the Baileo Maluku Foundation and Toma Maju Lease, a non-profit organization based in Saparua that specializes in waste management, held a training attended by 17 participants from the villages of Mahu, Ihamahu, Porto, Paperu, and Boo. Through the training, participants were equipped with knowledge of domestic waste management, identifying different types of waste, and the threats of single-use plastic waste to coastal and marine ecosystems. The sessions also covered the principles of reuse, reduce, and recycle, and interesting practices such as organic waste composting using biopores and making eco-bricks and handicrafts from plastic waste.

As a follow-up, participants will share information about plastic waste management with their peers in their villages. Some of them are also exploring ways to make plastic waste an extra income for the household or to support social activities in their communities. However, the main challenge is finding buyers for the sorted plastic waste as there are no waste collectors in Saparua. On April 13th, CTC organized a high-level meeting with representatives from various organizations including the Department of Fisheries and Marine Affairs (DKP) Maluku, Department of Environment (DLH) Maluku Province, Department of Environment and Solid Waste of the Maluku Tengah Regency, sub-districts, villages, and PT Milion Limbah Ambon (MLA). In the meeting, CTC presented and shared information about all the activities conducted during the first phase of the “Kalesang Dugong” project. The women trainees also had fruitful discussions about waste management in the Lease Islands with government and private sector representatives.

CTC also held public events to further enhance local communities’ knowledge about the impact of plastic waste in the ocean. CTC visited local elementary schools in Mahu, Ihamahu, and Boo, with the participation of 133 students and teachers. To commemorate World Environment Day on June 5, 2023, CTC led clean-up activities in multiple coastline areas alongside the Baileo Maluku Foundation, Toma Maju Lease Foundation, the Dursteede Community Surveillance Group (Pokmaswas) of Saparua, and community representatives from six villages. A total of 104 participants took part in the collaborative efforts, resulting in the cleaning and sorting of 89.85 kilograms of plastic waste collected from the beach areas. The collected plastic waste was then transported to a temporary processing facility in Ouw Village.

In parallel with these activities, the Saparua Sub-District Government is also actively working towards establishing a community waste bank in partnership with all village government officials. The waste bank will serve as a centralized collection point for clean, dry, and properly segregated waste from all households, including items like papers, plastic bottles, and metals. By implementing this waste bank program, local communities will have the opportunity to convert their waste into monetary value, encouraging more active involvement in waste sorting and recycling practices. Currently, there is only one plastic waste processing facility in Saparua, operated by the Toma Maju Lease Foundation since 2019. However, the facility has encountered some challenges in effectively selling the outcomes of waste sorting.

CTC also facilitated extensive discussions and communication among key stakeholders, including the Toma Maju Lease Foundation, the Saparua Sub-District Government, the Environmental Service Agency of Central Maluku Regency, and PT Milion Limbah Ambon to come up with a local policy and guidance that regulates the sustainable plastic waste collection, processing, and marketing. To ensure the effective implementation of the new regulation, it will be formally endorsed by a letter of agreement with all village and sub-district governments in Saparua. The shared agreement will establish a strong legal framework for the operation of the waste bank and impose stricter sanctions for any violations related to waste disposal on the island and its surrounding waters. These measures aim to promote responsible waste management and enforce regulations to protect the environment of Saparua Island.



Collaborative Resource Use Monitoring in the Lease Islands MPA

During this quarter, CTC conducted a comprehensive Resource Use Monitoring (RUM) survey in the Lease Islands MPA in Maluku Province. This survey involved collaboration with multiple governmental agencies and local communities, aiming to strengthen law enforcement, promote the adoption of sustainable practices, and discourage harmful activities by the local small-scale fishermen, private sectors, and tourism operators.

On May 25, 2023, a team of 10 members attempted to survey the northern waters of Haruku and Saparua Islands, which are part of the MPA. Unfortunately, due to severe weather and high waves, the team could not visit Nusalaut Island. However, during the navigation, the team interviewed resource users, gathering valuable data. This collaborative effort involved CTC, the Fisheries Monitoring Division of Island Cluster VII from the Marine Affairs and Fisheries (MAF) Agency of Maluku Province, the local community surveillance group (Pokmaswas) of Duurstede from Saparua Village, and the customary institution (kewang) of Porto Village. The collected data serves as important information to support the effective management of the MPA.

In order to streamline the data collection process, the team utilized personal cellular phones equipped with the "Kobocollect" application as a replacement for traditional paper data forms. The application proved to be efficient, working well both online and offline, enabling the team to enter and save data seamlessly. This technological approach presented an opportunity to enhance the capacity of Lease Islands MPA management personnel in effectively gathering crucial data.



A total of 12 resource users engaged in traditional fishing activities were identified during the survey and no violations of sustainable fishing practices were observed in the Lease Islands MPA. This positive compliance rate highlights the success of community outreach efforts regarding marine conservation and MPA zoning systems by the CTC team in Ambon, while also emphasizing the significant impacts of responsible marine resource utilization.

Regular RUM activities empower local stakeholders to actively monitor resource utilization, identify potential issues, and implement proactive measures to promote sustainability in the Lease Islands MPA. Moving forward, consistent monitoring and collaboration will be crucial in preserving and protecting this valuable marine ecosystem for future generations.



New Scientific Paper: Rapid physiological Colouration Change is a Challenge - But Not a Hindrance - To Successful Photo Identification of Giant Sunfish

A scientific paper, co-authored by CTC Executive Director Rili Djohani and Marine Conservation Adviser Marthen Welly, highlighting the use of photo identification techniques and a citizen science platform to study giant sunfish (*Mola alexandrini*) in the Nusa Penida Marine Protected Area has been recently published in *Frontiers in Marine Science*. The study aimed to determine if photo identification is possible and informative in studying the giant sunfish despite the species frequent and rapid color change. The article is available via [this link](#).



BUILDING CAPACITY IN MARINE RESOURCE MANAGEMENT

Empowering Women's Groups in Sustainable Tourism Leadership in the Nusa Penida MPA



In recent decades, there has been remarkable growth in women's contributions to the global tourism and hospitality industries. However, it is important to acknowledge that women have historically faced underrepresentation in management and leadership positions within these sectors. To address this issue at a local level, CTC recently organized a series of training for strengthening women's groups in sustainable tourism leadership in the Nusa Penida Marine Protected Area (MPA).

From June 13 to 18, 2023, CTC conducted capacity-building activities with the goal of providing participants with essential knowledge and skills. These activities also focused on creating alternative community-based tourism trails in both Nusa Penida and Nusa Lembongan Islands. The trainings were organized through a collaboration between CTC and Roote Trails, a sustainable tourism start-up based in Yogyakarta, which served as facilitators for the program, through the support of the Australian Volunteer Program (AVPI).

The first round of training in Nusa Penia spanned three days and was attended by 15 female participants from Ped, Batununggul, and Suana villages. The second training, also covering three days, was conducted in Nusa Lembongan and was attended by 11 female participants from Jungut Batu and Lembongan villages. These participants brought diverse backgrounds and perspectives, enriching the learning experience.



The trainings provided in-depth tourism knowledge and enhanced guiding skills to representatives from local women's groups within the Nusa Penida MPA. Most participants actively contributed to the creation of new alternative tourism activities and destinations, such as local seaweed farming, traditional dance workshops, natural salt making, and fermented cassava production. These unique attractions can later be incorporated into short community-based tourism trails, offering diverse experiences to visitors. Following the training, CTC and Roote Trails will be developing and promoting these trails to the public.



To ensure a comprehensive training program, CTC and Roote Trails team also conducted a two-day survey in both Nusa Penida and Nusa Lembongan prior to the sessions. These surveys played a crucial role in assessing the current tourism landscape and gaining a deeper understanding of the community's needs and aspirations. By tailoring the training to address these specific requirements, this initiative not only benefited the individuals but also contributes to the larger goals of marine conservation in the Nusa Penida MPA.

Fisheries Management Training in Mataram

In a collaborative initiative aimed at strengthening the management of the snapper grouper fishery in West Nusa Tenggara Province, CTC facilitated a capacity-building event called "Fisheries Management Training with an Ecosystem Approach" in the City of Mataram. This event took place from May 22 to 24, 2023, and was organized by the Marine Affairs and Fisheries (MAF) Department of West Nusa Tenggara (NTB) Province and Wildlife Conservation Society (WCS). The three-day training program focused on providing participants with comprehensive knowledge and skills in fisheries management strategies, the Ecosystem Approach to Fisheries Management (EAFM), evaluating fisheries using EAFM indicators, and developing Fisheries Management Plans (RPP) and Fisheries Action Plans (RAP). The curriculum was designed to meet the needs of diverse stakeholders, including personnel from the MAF Department of NTB Province, academics, NGOs, representatives of local fishers, and the private sector.



With a total of 19 participants, comprising 18 men and 1 woman, the training fostered a diverse and inclusive learning environment. The attendees engaged in interactive sessions, discussions, and a fisheries management simulation, enabling them to understand the essentials of sustainable fisheries practices. The event also served as an opportunity for senior practitioners to refresh their knowledge while providing valuable insights to junior members and newcomers to the committee.

The training participants provided positive feedback regarding the training program, emphasizing its substantial contribution to their knowledge of fisheries management strategies, EAFM principles, and fisheries action plans. Through collaborative initiatives like these, FPI2B, WCS, and the Provincial Government of West Nusa Tenggara have demonstrated their collective unwavering dedication to the sustainability of local and national fisheries management practices. By joining forces, we actively contribute to the preservation of the snapper-grouper fishery, as well as other target fish species, and the protection of key marine ecosystems within the Coral Triangle region.

Contemporary Coral Reef Monitoring and Analysis Workshop

On May 15-17, 2023, CTC and the People and Nature Consulting International (PNCI) held a comprehensive three-day training workshop at the CTC Center for Marine Conservation to equip CTC's coral monitoring team with cutting-edge skills in machine learning, statistics, and geospatial analysis to enhance coral reef monitoring capabilities. The training focused on leveraging machine learning to rapidly annotate large volumes of underwater images and complement in-situ reef health surveys. Participants gained hands-on experience using tools like ReefCloud.ai. It also covered statistical techniques for robust data analysis using R as well as demonstrations of testing assumptions, appropriate tests for different data types, data visualization, and interpretation. Finally, it provided practical guidance on mapping monitoring insights using QGIS. Participants learned to map CTC fish biomass data and explore spatial relationships. Overall, the workshop empowered CTC's monitoring team to harness leading-edge technology for efficient, accurate, and scalable coral reef monitoring. Participants left equipped with knowledge and skills to enhance decision-making through advanced analytics and visualization.



PARTNERSHIPS AND LEARNING NETWORKS

CTC Renews Partnership Agreement with the Ministry of Agriculture and Fisheries of Timor-Leste

CTC and the Ministry of Agriculture and Fisheries of Timor-Leste has renewed its partnership by formally signing a five-year cooperative agreement that will be implemented from 2023 until 2028. The agreement demonstrates CTC's long-term commitment to assist regional efforts to conserve the marine resources of the Coral Triangle, with a focus on enhancing the management and protection of Timor-Leste's abundant and unique marine and coastal resources. It is CTC's third partnership agreement signed with the MAF, the first one was in 2012, and the second in 2017.



CTC has been working in Timor-Leste since 2012 to build local capacity for managing the nation's marine resources and assist in the establishment of marine protected areas (MPAs). CTC has focused its efforts on increasing knowledge and awareness among officials, members of the community, women leaders, and MPA practitioners about issues such as marine biodiversity, integrated ecosystem-based management, the financial sustainability of MPAs, and community facilitation.



Under the renewed agreement, CTC will also promote sustainable marine tourism in Timor-Leste through the Green Fins program, support the survey and research on coral reef, seagrass, mangrove, and marine megafauna, provide technical assistance on marine spatial plan development, conduct joint communication and awareness program on marine resources management, and collaborate to secure the necessary funding, support, and assistance for the implementation of joint proposed activities. CTC's support of the Timor-Leste government is also anchored in its role as an official development partner of the Coral Triangle Initiative on Coral Reefs, Fisheries, and Food Security (CTI-CFF). As a development partner, CTC is committed to supporting the CTI-CFF's member countries, such as Timor-Leste, in managing its marine biodiversity.



CTC is proud to have supported the Timor-Leste Government in the process of the establishment of the two MPAs since 2014. CTC has assisted in laying a collaborative groundwork for the development of the MPAs in Atauro Island and Samba Sembilan Liquica. CTC conducted biophysical and socio-economic surveys, supported the development of the MPA zoning system and management plans as well as conducted numerous stakeholder consultations to generate support for the new MPAs. In the last two years, CTC has also expanded its work to support the establishment of new MPAs in Manufahi and Metinaro and to support strengthening the management of Nino Konis Santana National Park.

CTC Headlines the 5th Asia Pacific Coral Reef Symposium (APCRS) in Singapore

The Coral Triangle Center team, led by CTC Executive Director Rili Djohani, joined the 5th APCRS held in Singapore from June 19-23, 2023. With the theme 'Coral reef science and management in a rapidly changing world', the 5th APCRS was a forum for around 800 reef scientists and managers from 40 countries to present, discuss and integrate the science and conservation of Asia-Pacific coral reef ecosystems. The symposium's goal was to bring together the region's scientific community to "create new paradigms to meet the key challenges to the region's reefs in the future."

Ms. Djohani was the first plenary speaker during the symposium's first day where she talked about the importance of the Coral Triangle as a global epicenter for marine biodiversity. In her talk, entitled "Towards an Effectively Managed Coral Triangle in the Asia-Pacific: Are We on Track In Closing the Gap Between Science and On-the-ground Action?", she highlighted the growing pressures on the Coral Triangle's reefs from overfishing, habitat destruction, pollution, and climate change as well as the growth in efforts to protect the region's reefs over the last decade. She then highlighted how the nexus of coral reef science, conservation and management is where values, norms, traditions, inclusiveness and equity become essential guidelines to preserve the most diverse, abundant, and resilient coral reefs on the planet.

Other CTC team members highlighted lessons learned from our coral reef restoration program and capacity building program. CTC's Marine Conservation Adviser Marthen Welly presented on "Enhancing Capacity for Coral Restoration in Indonesia by Implementing Scientifically Based Standards and Protocols" while CTC's Coral Reef Restoration Task Force Coordinator Eureka Amadea gave a presentation on "Supporting Success in Reef Restoration: Assessment Indicators and Evaluation in Three Cases of Coral Reef Restoration in Bali, Indonesia."

CTC Training Manager Silvianita Timotius presented on "Building Capacity of MPA Personnel in Indonesia Toward Effective Management by 2030" together with her counterpart from MMAF Ririn Widiastutik while CTC Senior Program Manager Dr. Hesti Widodo presented on "Integrated Marine Conservation and Fisheries Management Approaches are Prerequisite for Reef Protection in Eastern Indonesia," drawing lessons learned from CTC's contribution to the USAID Sustainable Ecosystems Advanced Project.

One of our community partners, Muhayem Nasrum, from the Banda Islands Marine Protected Area Network also shared about local marine management efforts with his presentation "Reviving SASI System for Effective MPAs in the Banda Islands."

The 5th APCRS, hosted by the National University of Singapore and National Parks Board, consisted of four days of formal scientific proceedings with plenary talks, oral and poster presentations, as well as workshops and learning tours around Singapore. Held every four years and hosted by different institutions in the region, the number of participants has increased steadily from 250 in the first Symposium to more than 800 in the fifth Symposium. The expanding networks of people involved in the event illustrate the ever-growing interest and urgency in conserving coral reefs and marine resources in the region.



New Report: CTI-CFF Women Leaders Forum Inspiring Women Leaders in Marine Conservation



CTC, in collaboration with The Nature Conservancy (TNC) and the Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security Regional Secretariat and Women Leaders Forum organized a series of two online regional exchanges in October and November 2022 that highlighted successful women-led initiatives in marine resource management and ocean protection. To commemorate Coral Triangle Day on June 9, 2023, CTC shared the final report from these two learning exchanges, which is a compilation of case studies presented during the two online events. We hope that with this report, we will be able to recognize the achievement of women leaders who are championing marine conservation in the six Coral Triangle countries and encourage more women to take leadership in marine conservation activities. Download the report via this link: bit.ly/WLFRReport

CTC Hosts David and Lucille Packard CEO and Senior Technical Team in Bali

CTC hosted Nancy Lindborg, the president and CEO for the David and Lucile Packard Foundation together with the foundation's senior technical team at our Center for Marine Conservation on May 12, 2023. The David and Lucile Packard Foundation is one of CTC's donors and partners in our capacity building and training programs as well as our field learning sites in Nusa Penida Marine Protected Area and the Banda Islands Marine Protected Area Network.



Ms. Lindborg is responsible for the overall management of the Foundation and its grantmaking activities. She has spent most of her career working on issues of transition, democracy and civil society, conflict and humanitarian response. She worked for USAID and was president of Mercy Corps. She previously lived and worked in Nepal and Central Asia, and was a founding member of the National Committee for North Korea and served as co-chair of the board of the US Global Leadership Coalition.

Joining Ms. Lindborg for the visit were John Claussen (Ocean Program Officer), Civil Society and Leadership Team of Jamaica Maxwell (Director) and James McCaul (Advisor), Forest for People and Climate (FPCI) team of Joko Arif (Program Officer), Kai Carter (Director), Karina Chamorro (Program Assistant), and Rio Pangemanan (Advisor).

During their visit, the David and Lucile Packard Foundation team met with CTC Executive Director Rili Djohani, Senior Program Manager Hesti Widodo, Marine Conservation Adviser Marthen Welly and Regional Communications Coordinator Leitani Gallardo. The meeting centered around discussions about the global ocean agenda, marine resource management priorities in Indonesia, as well as integrating social inclusion principles in environmental conservation and programming. Following the discussion, the team visited the exhibition hall at CTC's Center for Marine Conservation where they tried out interactive exhibits and viewed our art installations. They then met with representatives from the Blue Swimming Crab Consortium - a group of non-government organizations in Indonesia working to promote sustainable fisheries of Blue Swimming Crabs across the country. The NGOs present included Photovoice International, Starling Resources, and Environmental Defense Fund (EDF).

CTC Explores Collaboration with Ocean X

The team from Ocean X, including its founder Mark Dalio, chief operating officer Max Khosrowshahi, and program officer Emily Daughtry, visited CTC's Center for Marine Conservation (CMC) on May 13, 2023 to explore future pathways for collaboration. They met with CTC Executive Director Rili Djohani, Marine Conservation Adviser Marthen Welly, Regional Communications Coordinator Leitani Gallardo and CMC Business Development Officer Herni Hastutie.

During the meeting, the Ocean X team visited the Center's new exhibits and expressed an interest in working with CTC on its upcoming marine expeditions to Southeast Asia and the Coral Triangle, collaborations for exhibition displays at the CMC, expanding ocean education for the youth, and possibility to meet again at the next UN Climate Change Conference of Parties (COP 28) in the fourth quarter of 2023. Following the meeting, the OceanX team pledged \$50,000 to support CTC's exhibition and public outreach programs.

Ocean X is an ocean exploration initiative founded by Mr. Dalio and his father Ray Dalio, founder of investment firm Bridgewater Associates. An initiative by Dalio Philanthropies, OceanX is on a "mission to explore the ocean and bring it back to the world. The initiative also supports and facilitates ocean research for scientists, science institutions, media companies and philanthropy partners. OceanX's marine research vessel, the OceanXplorer, is utilized in the organization's research and filming expeditions.



CTC Hosts Indonesian NGO Partners to Support Indonesia's MPA Vision Roadmap



On May 23-26, 2023, CTC hosted a workshop with an NGO consortium including, WWF Indonesia, RARE, YPL, Konservasi Indonesia, REKAM to share programs and perspectives as well as discuss how we can advance coastal and marine conservation in Indonesia together. The workshop also aimed to develop a funding proposal to support Indonesia's commitment to the 30x30 target and goal under the Kunming-Montreal Global Biodiversity Framework. Adding to its MPAs' vision and target by 2030, the Indonesian government agreed to include Other Effective Area Based Conservation Measures (OECM). MPAs are among the most widely used and recognized marine conservation tools worldwide, including in Indonesia.

However, MPAs alone are inadequate to address the environmental crisis and the 30x30 target. A recent study has identified more than 300 potential OECM sites in Indonesia. The promotion of OECM under Target 3 of the Kunming-Montreal Global Biodiversity Framework, as part of the goal to conserve 30% of marine areas by 2030, holds the promise of recognizing sites and practices that occur outside of MPAs that contribute to conservation. However, guidelines and legal frameworks for OECM development in Indonesia do not yet exist, there are no incentive mechanisms in place to make OECM operable or sustainable, and it is not yet clear which tools or indicator measurements are appropriate for OECM. CTC, in collaboration with MMAF, along with other NGOs, are working to support the achievement of Indonesia's MPA Vision 2030 objectives as well as support the development of the legal framework and guidelines for OECM in Indonesia.



Karma Kandara Launches Ocean Initiative Dessert for Conservation

Karma Kandara, located in Uluwatu, Bali, recently launched Ocean Initiative Dessert by its Executive Chef Joseph Antonishek on World Ocean Day, 8 June 2023. The dessert, which utilizes local ingredients, is designed to support CTC's conservation programs. Following the launch, Chef Antonishek hosted a special curated dinner for CTC to showcase the special dessert. In an exclusive interview with Epicure Magazine, Chef Antonishek unveils the idea behind the Ocean Initiative Dessert, a treat that captures the essence of vibrant coral reef while serving as a catalyst for supporting the conservation efforts of the home to 76 percent of the world's coral species. Click the link to read the full story. bit.ly/OceanInitiativeDessert



OUTREACH AND PUBLIC EDUCATION

Transforming Global Ocean Commitments into On-the-ground Action - An Op-Ed Article by CTC Executive Director Rili Djohani in the Jakarta Post.



June 8 is World Ocean Day. It is once again that time of year when we celebrate the ocean, the planet's life support system that regulates our climate, provides oxygen, food and livelihoods to billions, and connects us across continents. The next day, we mark Coral Triangle Day, shining the spotlight on the epicenter of marine biodiversity, which is home to 76 percent of the world's coral species, 37 percent of the world's reef fish species, and which supports millions of people with their food and livelihoods. Despite the extent to which humanity depends on the ocean and marine biodiversity, we must recognize that the abundance of environmental services that our oceans provide is finite. This underlines the urgent need to address the threats facing our seas. Harmful fishing methods, pollution, biodiversity loss and habitat degradation are just a few of the ways that human activities are seriously endangering our marine environment.

This year's World Oceans Day theme "Planet Ocean: The Tides are Changing" aims to highlight the importance of ocean health to our planet's survival, to galvanize global support for ocean issues, and to generate increased investment towards its management and sustainability. Read the full article in the Jakarta Post via this link.

bit.ly/JakPostCTC2023

CNN Indonesia Features Coral Restoration in Bali

Bali's waters offer marine biodiversity that is famous to foreign countries. One of them is the beauty of coral reefs with hundreds of types of coral animals that live in it. However, coral reefs face threats from weather and human activities. This phenomenon encourages coastal community groups to make efforts to save them. During World Ocean Day, CNN Indonesia featured the various coral restoration efforts in Bali and interviewed CTC Executive Rili Djohani and how these efforts contribute towards overall ocean health in the province. Click this link to watch the video recording via this link. bit.ly/CNNIndonesiaCTC2023



Featured Video: Protecting Dugongs in the Lease Islands

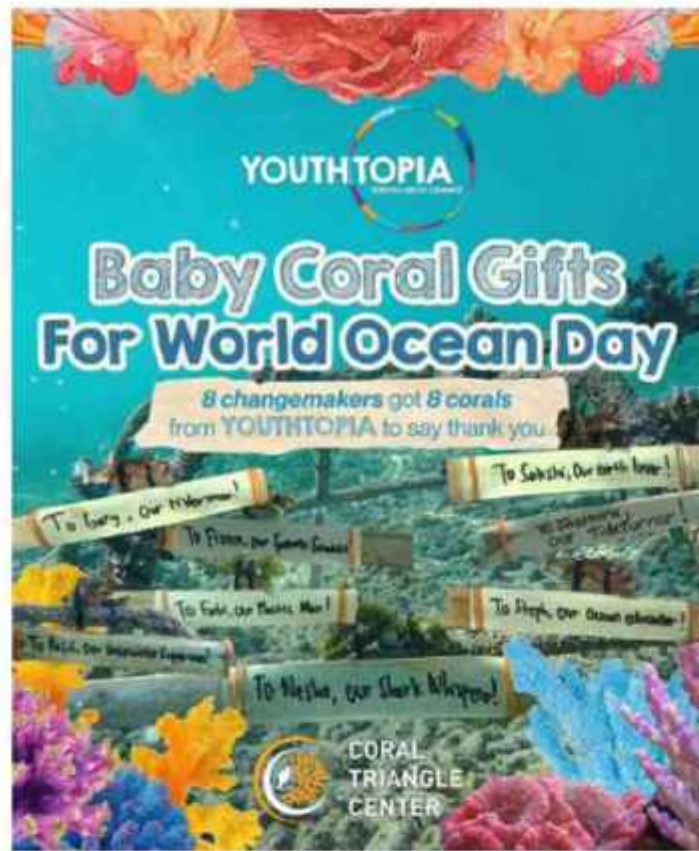


Watch this video and learn about the Kalesang Dugong Project, a two-year initiative that aims to protect the dugong and its habitat in four target villages in the Saparua Sub-districts: Booi, Porto, Mahu, and Ihamahu, located in the Lease Islands Marine Protected Area. Kalesang Dugong also aims to increase the capacity and awareness of local communities and key stakeholders, including indigenous peoples, women, youth, and private sector, so that they can contribute to the protection of dugongs. The project is supported by the Critical Ecosystem Partnership Fund (CEPF) for the Wallacea II Partnership Program and is being implemented by CTC in collaboration with the Baileo Maluku Foundation and the Mauku Provincial Edition. bit.ly/CTCKalesangDugongProject2023

Youthopia and CTC: Adopt a Coral Inspires a Sea of People

During this quarter, CTC collaborated with Youthopia to gift young changemakers all over the world with a baby coral to celebrate World Ocean Day. Founded by Melati Wijsen from Bye Bye Plastic Bags, Youthopia is a learning platform for young changemakers under the age of 25 to learn from each other and accelerate change.

Through this partnership, eight baby corals were adopted and transplanted in the Nusa Penida Marine Protected Area in honor of eight young change makers. CTC's Adopt-a-Coral Program uses the Mars Assisted Reef Restoration System (MARRS) method, which utilizes steel structures coated in resin and sand to which locally sourced coral fragments are attached. These "Reef Stars" are then anchored together in the sea bed to form a web-like structure across the destroyed reefs. The Reef Stars provide a strong platform on which the coral fragments can grow and form a reef. Through our collaboration with Youthopia, CTC is glad to see passionate, inspiring young people be a part of an initiative that brings awareness to the actions of these change makers.



CTC Shares Lessons on MPA Marine Protected Areas in Nusa Penida



CTC hosted 25 people from eight different universities and held a discussion with our GIS and Knowledge Management Specialist, Nyoman Suardana. The purpose of the visit to CTC was to discuss how the plan for the naval ships traffic would impact the marine protected area (MPA) in Nusa Penida.

The activities started with a tour around the Center for Marine Conservation after which Pak Nyoman briefly introduced the Coral Triangle region and explained the importance of MPAs. The CTC Team then described the Nusa Penida MPA, from the plan, to execution, to management. After the presentation, the guests were intrigued to learn more about the ecological facets of Nusa Penida MPA, questions varied greatly, from how coral reef ecosystems work, to what is considered a threat to them, and how does CTC tackle those threats.

The session ended with groups working to create a GPS system for naval ships, as well as small boats which could be used to detect a boat or ship's accurate position every 10 seconds. If there any boat or ship entered the naval traffic area or the core zone of our MPA, it would alert the tower and an officer in charge, so necessary action could be taken.



Wayang Samudra Performance: Honouring Greg Churchill's Legacy in Marine Conservation



In remembrance of our former board member, Gregory John Churchill, CTC organized a heartfelt Celebration-of-Life at the Tanjung Sari Hotel and Restaurant in Sanur, Bali, on May 21st, 2023. The event brought together his family, friends, and colleagues to pay tribute to his life and contributions. The highlight of the gathering was a captivating performance of "Wayang Samudra" (Ocean Puppets) by esteemed puppeteers, Mr. Sih Agung Prasetya and Mr. Sujono, hailing from Central Java. Their expertise in the ancient art of shadow puppetry added a touch of enchantment to the occasion.

The event commenced with a Hindu-Balinese ceremony led by a priest, setting a sacred atmosphere. Following the prayers, the puppeteers showcased their skill in illustrating the detrimental impacts of plastic pollution on marine animals and ecosystems throughout a 30-minute performance. In the storyline, Greg's puppet character symbolized his deep connection to the oceans and unwavering commitment to environmental conservation. As the puppet ventured into the sea to help marine creatures in the face of plastic pollution, a powerful message resonated with the audience, urging them to protect the oceans for a better future.



The artistic tribute had a profound impact on everyone present, serving as a reminder of the pressing need to tackle environmental issues, particularly plastic pollution. Inspired by the performance, the audience contemplated their own responsibilities in preserving the Earth's natural wonders. As the event ended, CTC Executive Director Rili Djohani presented Greg's puppet to his sisters: Barbara and Martha, symbolizing the ongoing pursuit of his mission. The Celebration-of-Life event paid tribute to Greg's life and the importance of ocean conservation. Attendees embraced the message of "Wayang Samudra," committing to carry on Greg's passion for a sustainable future. Through this collective dedication, Greg's memory will live on, inspiring positive change for future generations. The event combined art, remembrance, and environmental awareness, serving as a reminder of the significance of protecting marine ecosystems and the enduring impact of individual efforts in preserving our natural world.

CENTER FOR MARINE CONSERVATION

Indonesia's First Ever Ocean Conservation-Themed Exhibition Hall Opens In Bali



In honor of this year's International Day for Biological Diversity, CTC launched Indonesia's first ever ocean conservation-themed exhibition hall on May 20, 2023. The exhibition hall delves into the intersection of art, science, culture, and marine conservation. It features large-scale art installations that showcase the creativity of Indonesian and foreign artists' creativity in presenting our oceans' beauty, interactive displays that highlight the charismatic marine life of the Coral Triangle, and solutions to threats like climate change and plastic pollution. Visitors can also directly take conservation actions during their visit by adopting coral, signing up for an online course, or joining field trips and fun learning activities.



The opening was attended by circa 100 people, including our partners and supporters such as CTI-CFF Regional Secretariat Executive Director Dr. Mohd Kushairi Rajuddin, Ministry of Marine Affairs and Fisheries - BPSPL Denpasar Head Mr. Permana Yudianto, Chair of the CTC Board of Trustees, Yuli Ismartono, board members, as well as artists, photographers and explorers who have contributed their work to the exhibition. It also featured a special dance performance from Central Java showcasing the wisdom of living in harmonious coexistence with nature.

The dance performance entitled Hamemayu Hayuning Bawana was performed by Sih Agung Prasetya and Sujono Keron from the Lima Gunung Art Community. The dance exemplified the Javanese idea of protecting the beauty of the earth and promoting its sustainability. It told the story of how people learn the value of coexisting peacefully with nature. The performers are also the same puppeteers that developed CTC's Wayang Samudra, a collection of 32 wayang characters based on marine life.



Some of the featured artworks in the exhibition hall include Weaving the Ocean by Montreal and Bali-based artist Ari Bayuaji. Weaving the Ocean is an installation made of upcycled plastic ropes found washed ashore in Sanur's mangrove areas, which the artist and his team of weavers have beautifully transformed into intricate pieces such as the Gajah Mina, as well as large-scale installations resembling giant jellyfish and beautiful tapestries. There was also Harmony Island by Mulyana, an Indonesian artist based in Yogyakarta.



Harmony Island showcases a vibrant coral ecosystem through beautifully crafted crochet pieces made from surplus yarn from the garment industry. Admiring the intricate seascape provides an opportunity for visitors to remember our responsibility to preserve its beauty. Harmony Island was made in collaboration with 25 crocheters who helped bring the pieces to life and raised crochet into an art form.



Photographic exhibitions featuring stories from across the Coral Triangle are also found in the exhibition hall such as the I Love Banda exhibit by Dutch photographer Isabelle Boon. I Love Banda shines a spotlight on six teenage Banda islanders, showing what it's like to grow up on these remote islands, and to what extent history influences the identity of new generations. Through their realities, history and the present appear to interact in the pictures, giving a varied story about culture and identity.



There's also From the Deep, a photo exhibit by French marine biologist and explorer Alexis Chappuis. It features photographs taken from the mesophotic zone or marine habitats at depths of 30, 40, and down to 100 meters. Lying beyond the limits of recreational diving, little is known about these ecosystems and the photographs show how human impact has reached these depths of the ocean.

The exhibition hall also features one-of-a-kind interactive exhibits such as the Grand Blue Project by Swiss explorer Edi Frommenwiler. Presenting 60,000 video clips produced over 30 years, The Grand Blue Project is an interactive and extraordinarily comprehensive video library of Indonesia's marine biodiversity. It documents more than 1,000 species ranging from the smallest pygmy seahorses to the largest whales. It is an important resource for marine biologists and students and an inspiring library for nature lovers.



The exhibit hall also features a Mars Assisted Reef Rehabilitation System (MARRS) system, shown in ceramic sculpture, as well as interactive virtual games Reef Hero and Coral Music, which enable players to win by restoring coral reefs and identifying the different musical sounds in a healthy reef. In addition, other interactive exhibits include sustainable seafood game puzzles, a wave tank simulator, and more. A detailed exhibition hall booklet can be downloaded via this link. bit.ly/CTCExhibitionHall



ORGANIZATIONAL DEVELOPMENT

New Team Members



Ivo Panggabean, Executive Admin and Office Coordinator

Ivo has more than 15 years of experience in operations, office management, administration, travel and hospitality. She served as a trusted Executive Assistant to Senior Executives and Program Support to the Management Team in The Nature Conservancy and Travel and Hospitality industry. Her experience coordinating team schedules, workshops, meetings, and travel combined with functioning as the primary liaison to staff ensuring a positive culture in the organization will be very relevant and valuable to CTC. Ivo has been the operations manager for Tropical Yacht Charters for five years starting in 2018 and served as fisheries program support and office administrator for TNC's fisheries/ coastal and marine program from 2010-2017. Ivo reported to me directly in TNC from 2002-2010 as Senior Secretary. Prior to TNC, she worked in public relations for Ramada Bintang Bali resort from 1997 until 2021. Ivo has a Bachelor in Art from the University of Nommensen, Medan, North Sumatera.



Made Agung Pramatenya Putri Sima, CMC Facilitator

Prama has a Bachelor's Degree in communication science from Universitas Pendidikan Nasional (UNDIKNAS). With a strong GPA of 3.93, she has demonstrated her dedication to academic excellence. She has actively contributed to various organizations, including serving as a treasurer and a member of the editorial team. Formerly working as a customer service representative at Bali Safari and Marine Park, Prama excels at providing detailed information to visitors and resolving their issues while fostering positive relationships with tour guides. Prama is responsible for overseeing the daily operations of the CTC Center for Marine Conservation. In addition, she will serve as a game master, supporting the operation of the escape rooms. Prama will also host CMC visitors, conducting house tours and fun learning classes while providing assistance to the sales and marketing team in promoting CMC products.

Interns



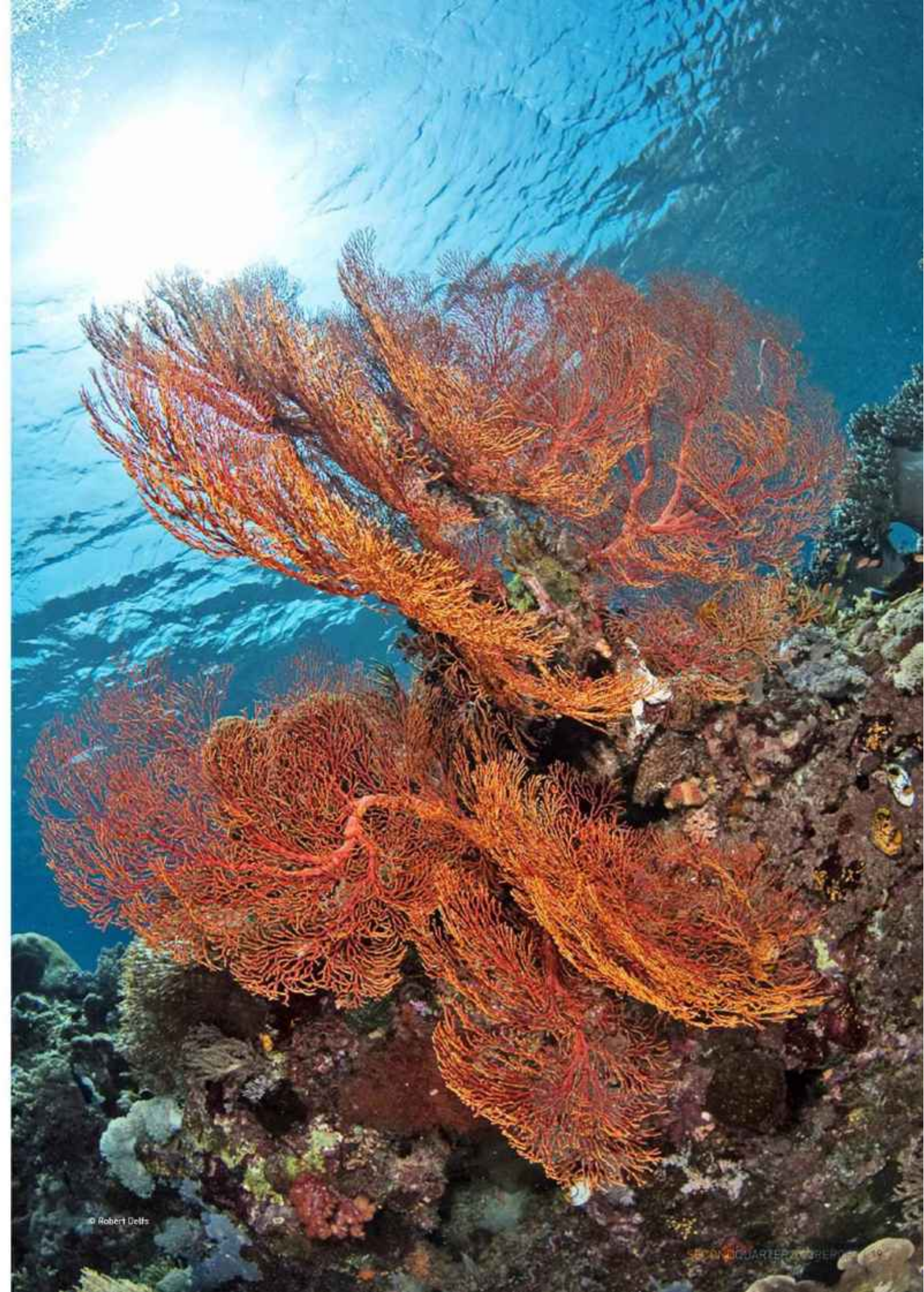
Aliya Jasmine Sizer

Jasmine is a student currently pursuing a degree in Conservation and Resource Studies with a minor in Marine Science at the University of California, Berkeley. Expected to graduate in May 2026, Jasmine has shown a strong passion for environmental conservation and a deep understanding of natural resource management. Jasmine's commitment to sustainability extends beyond the classroom, as she serves as the Director of Sustainability for the Delta Gamma Sorority, actively participates in the Surf Rider Club, and founded and led the Green Team Club in high school. Jasmine did her internship with CTC from June 5-27, 2023. She supported the coral restoration program in Nusa Penida MPA as well as the women leaders training for nature tourism program.



Tess Elizabeth Noone

Tess is a new graduate with a background in environmental conservation and sustainable development. She holds a degree in Human Dimensions of Natural Resources from Colorado State University, where she also minored in International Development Studies. Tess has conducted research on global marine protected areas as a Blue Parks Science Intern and has assessed ecological degradation factors as a field researcher in the Turks and Caicos Islands. She has also contributed to reef restoration projects in Madagascar and worked as an English teacher. With skills in research, species identification, and underwater surveys, Tess is well-equipped to make a positive impact in the field of environmental conservation. Tess started her internship with CTC on June 5, 2023, and she will be staying until November 1, 2023. Tess supports the coral restoration program and the sustainable tourism program in Nusa Penida, developing the nomination for the Coral Triangle Mission Blue Hope Spot, as well as providing support to the CTC communications team.



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COLLABORATION

National Governments in the Asia Pacific Region

01. Coral Triangle Initiative for Coral Reefs, Fisheries and Food Security (CTI-CFF) Regional Secretariat and National Coordinating Committees
02. Ministry of Agriculture and Fisheries, Timor-Leste
03. Center for South China Studies of Ministry Foreign Affairs
04. Department of Marine Parks, Malaysia
05. Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)

Ministry of Marine Affairs and Fisheries (MMAF) of the Government of Indonesia

01. MMAF Human Resources & Community Development Agency (BPSDM-KP)
02. MMAF DG KP3K, Directorate KKJI
03. MMAF Directorate Marine Biodiversity Conservation Area (KKHL)*
04. MMAF Fisheries Training Center in Banyuwangi
05. MMAF Fisheries Training Center in Tegal
06. MMAF Fisheries Training Center in Ambon
07. MMAF BPSPL Denpasar
08. MMAF Balai Kawasan Konservasi Perairan Nasional (BKPPN) Kupang
09. MMAF Pengawas Sumberdaya Kelautan Pas Banda

Provincial Governments and Agencies

01. Bali Provincial Government (Dinas Kelautan dan Perikanan)
02. NTT Provincial Government (Dewan Kawasan Konservasi Perairan Nasional - DKKPN)
03. Maluku Provincial Government (Bappeda and Dinas Kelautan dan Perikanan)
04. Klungkung District Government (Bupati, Bappeda, Dinas Peternakan - Perikanan dan Kelautan, Dinas Pariwisata)
05. Klungkung Regency Government (Pemerintah Klungkung)
06. Central Maluku District Government (District Planning and Marine-Fisheries Office)
07. Seram Timur District Government (Dinas Kelautan dan Perikanan)
08. Certification Institute for Marine Core Competencies - LSPK (Lembaga Sertifikasi Profesi Kelautan)
09. Pusat Pelatihan Mandiri Kelautan dan Perikanan (P2MKP)
10. Balai Teknologi Industri Kreatif Keramik (BBPT-BTIKK)
11. Balai Pengelolaan Hutan Mangrove Wilayah I

Non Government Organizations

01. International Coral Reef Initiative (ICRI)
02. Global Sustainable Tourism Council (GSTC)
03. International Union for Conservation of Nature (IUCN)
04. The Nature Conservancy (TNC)
05. World Wildlife Fund (WWF)
06. Conservation International (CI)
07. RARE Conservation
08. Conservation Strategic Fund (CSF)
09. Pusat Pendidikan Lingkungan Hidup (PPLH) Bali
10. Yayasan Bahera Nusantara - Bali
11. Yayasan Nusa Wisata, Nusa Penida
12. Friends of National Park Foundation - Nusa Penida
13. Yayasan Warisan Budaya Banda Naira - Kepulauan Banda
14. Aquatic Alliance Foundation
15. Yayasan Masyarakat dan Perikanan Indonesia (MDPI)
16. Mission Blue
17. Plastic Pollution Coalition
18. Reef World Foundation
19. Environmental Defense Fund (EDF)
20. Starling Resources
21. Oceanic Society
22. Lembaga Partisipasi Pembangunan Masyarakat (LPPM)
23. eL SiL Kie Raha
24. Yayasan Baileo
25. Rele Foundation
26. Australian Volunteers International (AVI)
27. Studio Gelombang
28. Seattle Aquarium
29. Mars Sustainable Solutions

Academic Institutions

01. Australian Tropical Marine Alliance (ATMA)
02. Murdoch University - Australia
03. Georgia University - USA
04. Wageningen University - Netherlands
05. Western University of Australia
06. Victoria Shanghai Academy - Hongkong
07. Indonesian Institute for Science - LIPI
08. Institut Pertanian Bogor - IPB
09. Brawijaya University - UNIBRAW
10. Udayana University - UNUD
11. Hasanudin University - UNHAS
12. Diponegoro University - UNDIP
13. Pattimura University - UNPATTI
14. University Warmadewa in Bali
15. Sekolah Tinggi Perikanan - STP
16. Universitas Pendidikan Ganesha Singaraja - UNDIKSA
17. University of Khairun
18. Sekolah Tinggi Perikanan Hatta Syahrir
19. University of Darussalam

Private/Corporates/Agencies

01. World Ocean Council
02. Young Presidents Organization
03. National Geographic Society
04. Asian Geographic Magazines Pte Ltd
05. The Body Shop Indonesia
06. Jengga
07. Grand Luley Resort
08. Kummara
09. GummyBox
10. OceanBeltz
11. PADI
12. Hotels in Bali (Hard Rock Hotel Bali, Fairmont, Mercure, Sudamata, Prama, Sanur Paradise, Tanjung Sari)
13. Dive Operators Community Komodo (DOCK)
14. BAHAWISRI Bali
15. BAHAWISRI Maluku
16. Smiling Tours
17. Buffalo Tours
18. Tierra Mar
19. Sustainable Solutions
20. Studio JvG

Bali and Nusa Penida

01. Lembongan Marine Association
02. Nusa Lembongan World Diving
03. Lembongan Dive Center
04. Lembongan Dive Operator Association
05. Blue Corner Dive Center
06. Big Fish Dive Center
07. Two Fish Dive Center
08. Bali Hai Cruise
09. Crystal Dive Center
10. All4diving
11. Ena Dive Center Marine Adventures
12. LivingSeas
13. Bali Diving Academy
14. Ceningan Divers Resort
15. Reef Seen Resort

Maluku and North Maluku

01. Blue Motion Dive Center
02. Mahu Lodge
03. Pari Dive

Community Based Organizations (CBOs)

Bali & Nusa Penida

01. Satya Posana Nusa
02. Celagi Buana Putra
03. Majelis Ailit
04. Forum Krana Muda
05. Mangrove Tour Jungul Batu
06. Forum Petani Rumpun Laut
07. Forum Nelayan
08. Karang Taruna Sanur Kajah
09. Yayasan Pembangunan Sanur
10. Kelompok Nuansa Pulau

Banda

01. Kelompok Konservasi Masyarakat Pulau Ay
02. Kelompok Konservasi Masyarakat Pulau Rhun
03. Kelompok Konservasi Masyarakat Pulau Hatta
04. Kelompok Kreatif Anak Banda (KKAB)

Lease, Sula and Buano Islands

01. Moluccas Coastal Care (MCC)
02. Happy Green Islands (HGI)
03. Klasik Gereja Protestan Maluku
04. DPD Komite Nasional Pemuda Indonesia (KNPI)

Donors

01. SymAsia Foundation
02. Rainbow Foundation
03. David and Lucile Packard
04. Margaret A. Cargill Philanthropies
05. Walton Family Foundation
06. Critical Ecosystems Partnership Fund (CEPF)
07. Waterloo Foundation
08. National Geographic
09. Hard Rock Hotel Bali
10. USAID Sustainable Ecosystems Advanced (SEA) Project
11. USDO (United States Department of Interior)
12. Australian Government (Department of Environment & Energy)
13. AusAid (Australian Consulate-General Bali)
14. UN Environment Programme
15. Arafura and Timor Seas Ecosystem Approach (ATSEA)
16. Bloomberg Philanthropies



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