

RAPHIA IS THE QUARTERLY NEWSLETTER FOR THE CANADIAN ORGANIZATION FOR TROPICAL EDUCATION AND RAINFOREST CONSERVATION





Red Eyed Tree Frog

Scarlet Webbed Frog

Two Recent Photos from Cano Palma Biological Station



Caño Palma Biological Station Barra Colorado Wildlife Refuge Tortuguero, Costa Rica

NEWS FROM CANO PALMA

Hello from Cano Palma,

For those of you who are not familiar with me I am Mike Dunn and I am the current COTERC Manager at Cano Palma. I was chosen for this position because of my extensive background volunteering overseas and my keen interests in conservation and Biology. I have been on projects in Africa studying reptiles, South America monitoring rainforest populations and in Canada studying rattlesnakes. I have a keen interest in studying misunderstood and feared animals such as snakes. I have had a lot of opportunities at Cano Palma to work with the community to prevent unnecessary snake deaths.

One day in November, I was called over to the neighbouring community of San Francisco to catch a Fer-de-lance (*Bothrops asper*) from a resident's house. I grabbed our boat and made my way over to the frightened community members quickly. I had two things on my mind: keeping the snake safe from the humans and keeping the people safe from the snake (Most snakebite cases happen when a person is trying to kill a snake). Luckily, I was in time and the snake and the people were safe.

Amelia, the GVI school program coordinator, led me to the house where I observed a very scared *Boa constrictor*. Community members were giving it a wide berth and they gasped as I caught the snake with my bare hands. This was of course because they thought that it was a venomous snake, but a *Boa constrictor*, as its name suggests is a constricting (squeezing) snake with no need for venom. I told the watching crowd that the snake was harmless to people and they slowly came forward to see the intriguing animal.

Too often snakes are misidentified as venomous snakes and are killed out of fear. Many totally harmless species have been killed when I was unable to reach houses in time to save them. That is why I took the opportunity with the *Boa constrictor* to talk with the community about snake myths and snake safety. In the end, many of the children that were previously afraid of the snake were asking to hold it. Snakes have an amazing ability to dispel fear, often after a single touch, by being smooth and sleek instead of slimy and disgusting.

Conservation of all animals is important in all ecosystems is vitally important to the future of humanity on this planet. One of the first steps that we can take is to remove our fear of nature and its inhabitants. We have lived with nature for all of our existence as a species and still rely on its bounty to survive. A good gift to our planet this Christmas could be to find an animal that you are afraid of and learn more about it from books at your local library. You may surprise yourself by how much less you fear animals once you understand them a bit more.

Continued on Page 3

EUCHRE TOURNAMENT SUPPORTS COTERC

One of our most popular fundraising events has turned out to be the euchre tournaments that are held once in a while. The latest tournament was held on November 28, with another good turnout. Pizza was featured with a cash bar and there was a silent auction as well. The winners each received a prize for their prowess.

June and Blue Enright are the people who continue to organize these successful events, and we're grateful for their efforts. Thanks June & Blue!

Thanks once again to the management of the Toronto Zoo for allowing us to use the Atrium as the venue.



High Score Female Kristen Choffe; High Score Male-Dan Anderson; Most Lone Hands Brittany Weatherall; Most Honest Female Diana VanDusen; Most Honest Male Roger Pinfold

Continued from Page 2

OCTOBER 31/09

October has been an interesting month at the station. The turtle season has come to a close but the rest of the jungle seems to be coming alive. Migratory birds of all types are spotted on base, fishing in the canal and hunting turtle hatchlings on the beach. This may seem to be a harsh reality for the struggling hatchling turtles but it is a completely natural process. The birds have used this protein rich supplement to help them on their long migratory flights.

The station itself has seen many changes this month as well. A new monitoring program for reptiles, amphibians, birds and mammals has been initiated on the board walk trail. This walk will involve volunteers and locals in the data gathering methods. A new well has been completed and new cement pathways join the stations buildings together. New washing lines have been built to accommodate the volunteers.

COTERC volunteers have had an opportunity this month to work closely with the CCC (Caribbean Conservation Corporation). Morning and night walks with the CCC provided the COTERC volunteers with an opportunity to see the greater turtle presence in the Tortuguero National Park. The CCC volunteers shared their experiences and alternative turtle techniques. The CCC volunteers work turtles every day for 3 months and can provide useful insight due to their eclectic backgrounds. Volunteers have come from countries all over the world and many have worked other turtle projects. This background is beneficial to COTERC volunteers and staff. COTERC and the CCC volunteers were eager to work in partnership in the future.

NOVEMBER 30/09

As the last phase of GVI for 2009 ends the station has adopted a more quiet and serene atmosphere. The turtle night walks have finished up for the year and other less strenuous activities have commenced. Jungle walks are taken more often in search of the elusive animals that the volunteers are hoping to see before they leave. Morning census' excavations are more frequent which means more potential for seeing baby turtles and beach cleanups are in full effect. However, all of these practices can be halted with the rising water level during one of our frequent November floods.

The water level rose to 40cm above the boat dock at one point. The grounds were mostly covered in water and the pounding rain was constant for several days. This did not dampen the spirits of the CO-TERC volunteer's and many walking trips through the jungle were substituted for jungle paddles in kayaks. The paths were so flooded that it was possible to navigate 90% of the normally muddy jungle with ease in the kayak. However, it was a lot easier to lose your way when the trail markers were underwater.

Base alterations were brought to a standstill as materials had to be taken to higher ground and tools placed in water proofed areas. Debris from the river was strewn all over the biological stations grounds and roof repairs were made priority. The refrigerator was placed on blocks to prevent damage if the flooding rose higher. Luckily preparations in the kitchen were unnecessary as the waters subsided just before the base of the kitchen.

During this wet period, spectacled caiman were observed as far inland

as the boardwalk some 100 meters from the canal. The rains also brought out the frogs, which brought out the snakes. Many interesting snake species were observed this month; most impressive being the boa constrictors. This beautiful creature is the largest snake in Costa Rica and it fills a valuable ecological niche in keeping down the rodent population in the forest.



Venemous Fer de Lance



Harmless Boa Constrictor

Thank you to Anonymous, in honour of Colin Hutt, who made a recent donation to our Save An Acre fund. The funds donated to this special project have been set aside to purchase additional rainforest in the Tortuguero Region. For more details, please visit our website

www.coterc.org/donate.html

John S. Mitchell (1951-2009)

by Hyacinthe Mitchell

John would be honoured to be remembered by his peers in this edition of Raphia. His goal was always to document and help preserve wildlife and nature via his photography and videography. Most of all he was dedicated to informing others about nature's infinite variety, its fragility and immense beauty.

He was not only a skilled photographer technically but he had a strong aesthetic sense. He unstintingly shared his skills and knowledge in classrooms, lecture halls, photography clubs, and in conversation with anyone who'd listen. He taught nature and wildlife photography in a way that emphasized conservation of habitat and respect for the natural world. His students ranged from grade school to college level.

He reached an even larger audience through the documentaries he filmed for Discovery Channel (Profiles of Nature series), including ones on turtles, frogs, spiders, snakes and scorpions, to name a few. An important aspect of his work was the documenting of biologists and their research.

Over the years, he found himself in many dangerous situations. John was a real adventurer but he never took unnecessary risks. He experienced—and survived—encounters with bears, alligators and poisonous snakes, like a fer-de-lance in Mexico that he managed to film and protect from frightened villagers intent on killing it. He transferred that snake—subsequently named "Mitchell"—to a zoo in Villa Hermosa.

One of the great joys in John's life was the reaction of others to what he showed them and taught them. He has left us a legacy in his photographs and films, one that reminds us of our need to treasure and respect the natural world.

In John's own words: "My path led me to a love of nature and photography, so I try to tell stories through my images and shows about nature and our need to share this planet with all who live here. If any of my shows or work can impart this message to others, then I am happy and I have done my job properly."

Thank you, John.



John and Friends in Costa Rica: Brian Beck, Tom Mason, John Mitchell, Mike Burger, June Enright, Marc Lachange, Jim Brown, Blue Enright, Bryan Loyst

NOTES FROM THE CHAIR

by Tom Mason

What a year COTERC and Caño Palma has had. Mammal and bird studies have continued; the sea turtle program has been strong and our new manager Mike Dunn is doing a great job. We had a PhD candidate, April Stevens, at the station for the entire summer and I have just received word that one of our past PhD candidates, Todd Lewis has just become Dr. Lewis. CONGRATULATIONS!!! Todd.

The Station is changing in this coming year. As of January our tenants and partners for the past 5 years, GVI are leaving us. GVI will be moving south into the Tortuguero Park. There, they will take up residence in the south end of the Park to work on the sea turtles. This area has been worked by the Caribbean Conservation Corporation, (CCC) but as the beach was 21 miles long, little work or coverage was being done in the south, so GVI has chosen to help in that area where they feel their presence would better protect the sea turtles. The CCC will continue to do their work on the north end of the main beach and COTERC through Caño Palma will continue to work on the North Tortuguero Beach (known as Playa Norté). We wish GVI the best as they continue their conservation efforts

and I am sure that we will continue to work with them over the coming years.

The partnership with GVI has left us with an amazing facility on Caño Palma. We now have sleeping quarters for over 30 people; the infra-structure has composting toilets, new showers and laundry facilities, a separate library and newly repaired boathouse. We can now properly house volunteers, students and researchers for the coming years. As we will continue to do the mammal, bird and sea turtle monitoring, the facilities will be of tremendous value to our cause.

With GVI's departure we have begun to negotiate with other volunteer groups. Board members are drafting up a memorandum of understanding to send out to groups that have shown interest in joining us. This will create a source of volunteers for all the projects we run and those we will develop over the next few years.

Negotiations have also begun on a different front as well. For the past year we have been working with researchers at McMaster University and for many years we have had an affiliation with York University through their intern program and graduate studies.

We are now working on formalizing our positions with these universities. By doing this we hope to decrease our overhead in Canada, thus opening up more funding for work in Costa Rica and we expect a greater presence of university researchers and students at Caño Palma. Both institutes are showing a strong desire to cooperate and partner with us for the benefit of all. The COTERC board will keep everyone informed as discussions progress.

Personally I was disappointed this year, because I wasn't able to get to the Station or Costa Rica at all. It is the first year I have missed in 16. So I plan to make up for it in 2010. I already have a large group interested in going with me to the station and then continuing onto the Guayacan forest in the second week. From people that went last year, the trip should be magical. We will white water raft into the site, as well as out and go to an area where bushmaster and ocelots were observed last time. I also know that they found species of frogs last year that I have not seen myself in Costa Rica. It should be a great two weeks of discov-

So to all COTERC members, HAPPY NEW YEAR! And Thank You for supporting us as we grow.

REMEMBERING JOHN MITCHELL

By June Enright

I was very sad to hear of the recent death of John Mitchell, member and friend. I have fond memories of a trip to Caño Palma back in 1997 of which John was a member of the troop. John was as excited as the rest of us to get to the station but was slowed down a bit due to the large amount of equipment he was bringing with him. Lights, cameras, tripods etc. filled the boat as we made our way down the river and finally down the canal. My hope was that I would be able to see a three toed Sloth during this trip. I was told that this might not be a likely occurrence, but 15 minutes after getting to the dock, we heard yelling coming back at us from my hubby, Blue Enright, who had already ventured off while the rest of us were still stretching and unloading back packs and gear. Not only had he found a Sloth but one with a baby. We helped John bring the equipment down the path to the location and while John set up we all gaped, giggled and pointed at these large and slow moving lovely animals peering back at us from the top of their current tree. What a way to start a trip in the rainforest!

Throughout the trip John was always filming and taking pictures of the many animals found at the station or on our trips out to the National Park. I have to admit to cursing the lad whenever I had to make a trip to the toilets as John had managed to rig up lights and cameras around and inside in order to film a group of spider eating wasps who were busy making little mud pyramids along the inside door. They would fly in and place a spider inside the almost completed pyramid, and then seal it up, where their eggs would soon hatch to the waiting meal mum or dad had supplied.

I've always felt very fortunate on my trips to the station to have learned so much from others with me. There is the opportunity to learn a lot and develop special friendships when you are in such a unique place

TURTLE TRACKING ON PLAYA NORTE

By David Reid, Owen Sound, Ontario

I recently had the opportunity to return to Caño Palma for the second time. I first went to the station this past January 2009 with COTERC Directors Greg Mayne and Dr. Kym Snarr. I really enjoyed our first trip and when Greg informed me there was another trip being planned for September that would allow us to monitor sea turtles I jumped at the opportunity.

I am a Biologist by training and although I work in fisheries on Lake Huron during my undergrad days I took a course in herpetology and did a literature review on hatching sea turtle orientation. This glimpse into the world of sea turtles peaked my interest and so I was very anxious to finally see them in person.

After flying to San Jose and then settled and planned to participate comes early for turtle walking were in for a big surprise the next about 10 minutes when we ran eggs. I was told it was very unsomething special to finally get to amazing to see this big animal that sends sand in all directions. back to the sea when her duty

the sand than I would have imagined.



taking the bus and boat ride to the station I got in the turtle walk the next morning. And morning when you need to be on the beach at 5 a.m.! We morning because we had only been walking for into a female green sea turtle covering her usual to see the turtles in the daylight so it was see my first sea turtle in the light of day. It was covering its eggs with flaps of its large flippers And it was something to see her struggle her way was done. They are much faster at scurrying on

Over the next two weeks Greg kept us busy with many projects around the station including cleaning up the old debris around the buildings, replacing the tire bumpers on the dock, getting the equipment and materials ready that will be needed for the new well etc. Despite this I made sure that I participated on either the morning or night 10 km turtle walk almost every day. I saw about 9 or 10 turtles altogether during my 12 days at the station. Touching them while taking measurements was like traveling back through time and being able to touch a dinosaur.

At first it was rather unnerving to be walking along the black sand beach in the dark. During the first few nights we had a small moon to help us but as the moon rose later and became smaller I did become better at not tripping over the scattered logs. There is something surreal yet calming about walking along a beach in the dark, with a tropical breeze in your face, the waves lapping close by and a million stars in the sky. After walking for sometime you are almost lost in a trance that is at least until you see turtle tracks in the distance.

It was nice to meet the other volunteers and share the camaraderie with them including Mike, the new Station Manager, Tom and Ben from England, David from Winnipeg, locals Andres and Mario as well as of course all my traveling companions from Canada (Greg, Kym & Art, Ted & Teresa, Luca & Anne Marie and Jeff). I do wish Mike a wonderful experience during his time as Station Manager, it will be an adventure he can certainly replay in his mind for the rest of his life. My two weeks flew by, as I knew that it would, and I can only hope that I will have another opportunity to return to help out around the station and see those amazing turtles once again.

WELCOME TO THE JUNGLE

By Jeff Tribe

Jeff Tribe is a journalist for The Tillsonburg News, who recently visited Cano Palma Biological Station. Here is an excerpt from the four articles he wrote on his return.

"Expect 35°C heat and 1000 degree humidity. Expect to learn to look before you step, lean or place your hand on anything because amongst the fantastically-fascinating tropical coastland lowlands, there are critters who can do you harm. Expect to have the experience of a lifetime: sea turtles and the tropical rain forest and its denizens are ultimately cool.

And expect to meet your share of very interestingly crazy...or "passionately committed" individuals."

"Visitors to the Cano Palma Biological Station are not heading to a luxury resort, but can expect a true rainforest "life experience" including daily 4 a.m. serenades from troupes of mantled howlers."

FIESTA VERDE 2009—PROJECT SEA TURTLES

by Marilyn Cole

Fiesta Verde (originally called Tropical Treat) has become an annual tradition and our biggest fundraising event. Under the guidance of Rachel Atkins, her crew of volunteers, put together another wonderful evening of good food, good company, interesting guest speakers and a great assortment of live and silent auction items to tantalize our guests.

This annual event is an opportunity for local supporters and old friends to gather and share their reminiscences of their adventures at Cano Palma Biological Station.

We were pleased to see amongst our guests retired Toronto Zoo

General Manager, Cal White and his wife Lorna, long time supporters of COTERC, as well as the newly appointed General Manager Peter Evans.

Dr. Peter Silverman, O.O. and CO-TERC Advisory committee member, acted as the Emcee, providing a witty repartee to keep us entertained, while Randy Potter and his lovely wife Donna, got us all in the mood for some serious bidding wars on items ranging from an antique nursing chair to Harley Davidson designer clothing.

We also heard an update from April support from Deloitte. Stevens, a PhD candidate from McMaster University in Hamilton,

Ontario, who has been conducting research on the sea turtles found on Playa Norte adjacent to Cano Palma Biological station.

Our other guest speaker, Kay Choornook, a native of Hamilton, Ontario who wrote a book "Walking With Wolf" describing the life of Wolf Guindon, one of the Quaker founders of Monteverde and a leading conservationist in Costa Rica.

We are very grateful for the continued support of the Toronto Zoo management as well as financial support from Deloitte.

"What an opportunity of a lifetime this was for me. Having seen the tourist's side to Costa Rica, I wanted to experience the natural side. Cano Palma was not rated as a 4 star hotel so I had no takers to accompany me from my family and went alone. The station manager put me at ease and before long, I was part of the group of volunteers, though not young like most of them. What impressed me most was the trust placed in us, after we were trained, to conduct the work like professional - including hands on with the marine turtles. Working with the turtles was an emotional experience for me. I felt like a midwife, counting eggs while momma Green lay them, tuned into her rhythm of exertion and rest. Later I was able to complete this midwife experience by overseeing Hawksbill hatchlings make it safely to the ocean. I learned so much about marine turtles and their plight, and have become a real ambassador back home."

Deedee Davies

Regional Manager, Client Services Ontario Region Public Works & Government Services Seasons Greetings from Maggie and Jack!



COTERC WISH LIST

- * Binoculars and Spotting Scope
- * Biology and Ecology Technical books
- * Butterfly nets and mist nets
- * Night vision binoculars and scope

- * Portable Gasoline Generator
- * Power Tools
- * Digital Movie Camera
- * Dissecting microscopes
- * HP Ink cartridges #'s 27, 28, 56, 57
- * Motion Sensitive Cameras

FIESTA VERDE 2009 PHOTOS



Annette Simms & Andrea Beatson



Greg Mayne Director of Site Services



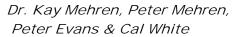
Donna With Special Harley Davidson Auction Items



Professor Frances Burton



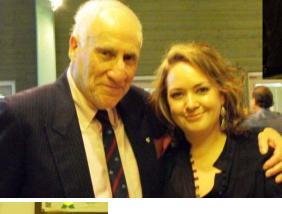
Guest Speaker Kay Choornook





Auctioneer Randy Potter





Dr. Peter Silverman, O.O. & Rachel Atkins



June Enright & Marilyn Cole



Tom Mason, COTERC Chair

The Story of the Wayward Machinist

By David Wright

What is a small town machinist doing in the tropical lowland forest in Costa Rica? I heard of Caño Palma Biological Station while I was working in Churchill, Manitoba a few years ago and thought that would be a good place to volunteer. I find volunteering is a good way to learn things and meet interesting people, doing interesting things in interesting places, so off I went.

When I left Winnipeg on the morning of September 1st it was 5 degrees Celsius. Three airplanes, a bus and a boat and about 36 hours later, I arrived at the station where the temperature peaks at 35 degrees and humidity is 85% or higher. It was a bit of a shock! I spent most of the first week trying to drink enough water to stay hydrated and perfecting the fine art of the afternoon siesta. The coolest, breeziest place I could find was a mesh hammock under the orchid garden. I never did find a time or place that I would call cool. The fact that I packed a toque and a fleece shows how unexpected this climate was. Another surprise was that everything is either growing or has something growing on it and sometimes both. This includes things like shoes, clothes and books. Things like computers, books, binoculars and radios have to be stored in closed cupboards that have a light bulb in them to try keep them dry and mold free.

At this point my writing was interrupted in typical Caño Palma fashion. I was hanging out in my favorite hammock when Anne Marie and Luca (COTERC volunteers) came along to hang up hammocks. Anne Marie noticed a bit of "rope" on the hook she was about to hook the hammock onto. Not a big deal until she very observantly noticed that the "rope" had eyes... with eyelashes. She fortuitously spotted an eyelash viper, one of the more venomous critters around here, on the very hook she was about to hang her hammock on. Someone went to get Mike (the station manager) and he proceeded to give us a very good demonstration of snake handling. He also told us the difference between poisonous and venomous animals, and he informed us that this girl (he also showed us how to sex a snake) uses a very effective Cytotoxic venom that could really mess you up by digesting tissue it comes in contact with. The moral of the story: NEVER EVER TOUCH A SNAKE no matter how small and harmless it may look, it just might have the means to kill you if it was so inclined. Also always look where you are putting your hands and feet. Another of the many learning experiences that a day at Cano Palma will toss your way.

The afternoon siesta is a great way to see wildlife. In a couple of hours a family of Howler Monkeys came and fed in the trees nearby. The two young ones were fun to watch as they were just learning to move from branch to branch. A prehensile tail would be a good thing to have. I wonder how many of them fall out of a tree before they become adults. The monkeys shared their trees with a big green iguana for a while. There was also a high stepping basilisk running around on the pond under the monkey tree. I was surprised with the variety of lizards around here. Everything from wee tiny brightly coloured whiptails to meter long iguanas. I am a bit of a bat nut so finding Honduran Tent Bats near the start of the boardwalk was one of the highlights of the trip. There is a group of Brazilian Long Nosed Bats that hang out on the boat dock. I had to rescue several of these guys (yes, I have rabies shots) when they were disturbed and got tangled in an Orb Weaver's web.

People rush around to far away places to see the big things, Polar Bears in Churchill, Lions tigers and elephants in Africa, leatherback turtles in Tortuguero. That is all well and good but I think the real adventure begins after you get past the big stuff. After you have spent enough time in a place to slow down and start to see the small stuff, that is when the real adventure begins. Things like the little lizards that climb the hammock poles. The wandering spider that shared my wall as I put my boots on in preparation for a night walk. Watching an Orb Weaver spider package a fly it has caught. Following an army ant highway, where are they coming from, where are they going to? Those are the interesting things and this place has no end of them. (wow!, a little blast of inspiration!)

There is a group of volunteers that deserve a note in Cano Palma history for going above and beyond the call of duty and the title of "Sand and Rock Haulers Extraordinaire". They went off in the boat with Mike to get sand for the new shower steps. They filled the boat with sacks of sand then hauled them all from the dock to the shower. The story does not end there. Mike and I went to San Francisco for groceries and when we returned we found more sacks of sand had been delivered to the dock. These had to be hauled to the shower. Just as we finished another boat came loaded to the gunwales with more sand that needed to be unloaded and hauled. I have never seen a boat with so little freeboard. It's a wonder that these guys did not sink. And the story still does not end there! The next day a bigger boat arrived with bags of cement and sacks of crushed rock that all had to be unloaded and hauled. With no exaggeration, several tons of material was moved. Well done guys!

As an accomplished machinist, David Wright brought his amazing "McGiver" skills to the station, performing miracles with little equipment, from repairing the kayak to participating in various research projects. Thanks, David!

COTERC is a registered Canadian charity whose mission is to provide leadership in education, research, conservation, and the educated use of natural resources in the tropics.

With your support you become a member of an incredible family of:

- Educators who teach environmental awareness to local children in Costa Rica.
- Conservationists who protect rainforest habitats and the species they support.
- Volunteers who collect data and perform general maintenance and support duties at the biological station in Costa Rica.
- Researchers who increase knowledge of rainforest plants and their uses; who study the biodiversity of insects; who monitor sea turtle nesting; and who study and monitor resident bird and mammal species.

Become a member today! Welcome to our family.

Membership Rates

Student—\$20

Senior—\$25

Individual—\$30

Family—\$40

Classroom—\$50

Current Projects

We invite you to join COTERC and become part of active

conservation. As a member, you receive our RAPHIA

newsletter four times per year and are entitled to a discounted stay at our Caño Palma Biological Station.

See for yourself what your money is doing!

Why Should I Join?

Your support ensures the continuity of research, conservation and education currently in progress in Costa Rica and Canada. Just as the summer tanager travels between Costa Rica and Canada, your financial

support will be used to further programs and connections in both countries.

Membership Category and Rate:
Your Name:
Address:
City, Province:
Postal Code:
Phone:
Email:
Send Raphia Newsletter by: □ Email □ Postal Service (in Canada only)
If Membership is a gift: Name of Recipient: Address: City, Province: Postal Code: Phone: Email: Gift Card to Read From:
Send Membership Package to: Donor Recipient Send Renewal Notice to: Donor Recipient Method of Payment: Visa
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HELP US TO BE MORE ENVIRONMENTALLY FRIENDLY!

We are now able to offer an electronic version of Raphia, and we'd like to encourage as many of our readers as possible to receive our newsletter in PDF format.

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