

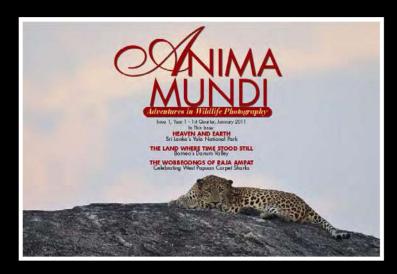


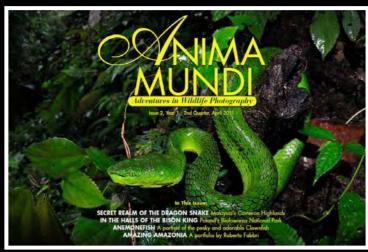
ORYX – Worldwide Photographic Expeditions is a well-established specialist photographic safari company that explores the planet's wildest and most scenic destinations as we focus on wildlife, nature, landscape and cultural photography.

ORYX's handcrafted photographic tours cover prime destinations in 18 countries on 5 continents! Our highly skilled tour leaders are also award-winning photographers, and strive to ensure that you capture truly breath-taking, inspirational and evocative images.

Contact us at info@oryxphotography.com, or visit our website at www.oryxphotography.com for more information about our high quality tours.











# DON'T FORGET TO SUBSCRIBE TO NIMA MUNDI - ADVENTURES IN WILDLIFE PHOTOGRAPHY

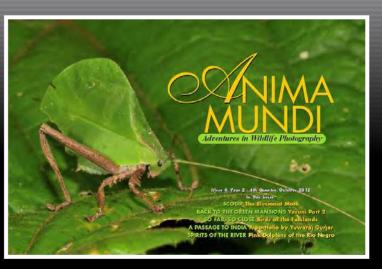
IT'S COMPLETELY FREE AND WITH NO STRINGS ATTACHED! KEEP TRACK OF PUBLISHED ISSUES, RECEIVE OUR QUARTERLY FREE NEWSLETTER, BE TOLD WHEN A NEW ISSUE IS OUT - ALL VIA EMAIL AND AT NO COST!

SIMPLY CLICK AND YOU'LL NEVER MISS ANOTHER ISSUE









ALL BACK ISSUES ARE PERMANENTLY AVAILABLE FOR FREE DOWNLOAD AT WWW.ANIMAMUNDIMAG.COM

### ADVERTISE ON ON MIMA MUNDI - ADVENTURES IN WILDLIFE PHOTOGRAPHY

With more than 15,000 downloads worldwide per issue (as per August 2012), ANIMA MUNDI has seen its readership consistently and rapidly growing in the brief span of only two years and eight published issues. Its authoritative and unbiased travel reports and wildlife articles offer a high level of scientifically-correct information - at absolutely no cost - to thousands and thousands of nature and photography enthusiasts all over the world. Each and every issue of ANIMA MUNDI - Adventures in Wildlife Photography is permanently available for FREE downloading - our mission is the dissemination and condivision of information to promote nature awareness and habitat conservation, and we are proud to reach out on a quarterly basis to a world of passionate, highly motivated, seriously interested readers who all share our passion for wildlife photography and travelling. This is a sample - among many others - of what our readers say:

Dear Andrea & Antonella,

I have just finished reading your latest edition of Anima Mundi and I was inspired to write and say how much I am enjoying your publication and following your adventures. My wife and dive/photo partner Cherie and I were so inspired by your feature on Yala National Park that we booked a Safari with Eco Team and we had a fantastic time. It was exactly as portrayed in your article and we also followed your recommendations for visiting the cultural triangle in Sri Lanka. As we were leading one of our dive tours on a live aboard exploring the Maldives last June, a private side trip to Sri Lanka was clearly not to be passed up due to your information. So, I guess it's good news for you both that others are reading and responding to your work. So, we just wanted to give you some feedback, say hello and wish you all the best with your future adventures. Keep up the great work.

Kevin & Cherie Deacon Dive 2000 Sydney, Australia. www.dive2000.com.au













Advertising on ANIMA MUNDI - Adventures in Wildlife Photography means reaching out and getting in personal contact with such people - passionate travellers, dedicated wildlife and nature photographers, world-famous field researchers. All sharing a common bond, all interested in serious, reliable information on wildlife and nature travelling and photographic workshops, trips and equipment. All waiting to hear from you!





#### Eye candy and inspiration for all

One of the greatest pleasure I experience while working on our digital magazine is actually assembling the separate articles - often greatly different from each other - in a cohesive ensemble, and so creating the actual issue. It's like cooking - mixing the varied ingredients and originating a wonderful recipe. And, being Italian, I love good food! So here's the tantalizing menu of this issue - I'm sure you'll enjoy all of it.

We start on page 4 with a rather unique feature on a rarely observed bird of near-legendary status - the majestic Harpy Eagle of the Amazonian rainforest. The somewhat less-than-optimal quality of the images by our friend and contributor Lucas Bustamante is justified by the rarity of the observation - an adult pair feeding their chick in a nest positioned at 40 meters height, far up in the impenenetrable Peruvian rainforest canopy!

Our trip report start on page 11 - this time we describe our demanding and somewhat less than successful expedition to Canada's remote Far North and the barren, wind-swept tundra of the Nunavik region on the Ungava peninsula. Its fabled wildlife - which includes great herds of caribou, wolves, musk-oxen and bears - eluded us in most part, but the flaming autumn colors and the remoteness of this pristine sub-arctic region did not disappoint us. Read on and judge by yourselves if it was all worth it or not...

We then offer you two spectacular photogalleries - the first begins at page 64 and pays homage to the tiny and incredibly colorful Oriental Dwarf Kingfisher of Asian rainforests; the second starts at page 69 and offers a selection of the winning images from Russia's Global Arctic Awards in 2014. In both cases there's

some spectacular eye candy and great inspiration for all discerning wildlife photographers.

We then continue on page 81 with a detailed field report on the efforts being currently made to study and protect the endangered Mona Coqui, an obscure but much-loved little frog from Puerto Rico, thanks to San Antonio Zoo's researcher Jen Stabile - a fascinating insight in the effort and dedication shown by those who work in relative obscurity to conserve our world's threatened natural heritage.

And speaking of conservation, for once we contradict ourselves on page 92, for the splendidly illustrated feature on shark diving in the Bahamas by our contributor Don Silcock examines and discusses in detail one aspect of wildlife photography we usually do not approve - i.e. the physical interaction of photographers with their subjects and the regular feeding/baiting of the same. It is a very controversial matter which always strongly polarizes opinions (we are usually strictly against it, and disapprove such practices), but in this case we are being flexible given the sorry state of shark conservation and the desperate plight of these stunningly beautiful predators worldwide. It's for a good and meritory cause, and so it's ok.

As you can see, we've done our best to concoct another great menu for you, which we hope you will enjoy and share with all until next issue.

In the meantime...

Have a good trip!
Andrea & Antonella Ferrari
www.animamundimag.com

We appreciate your feedback - constructive criticism, useful suggestions and interesting contributions are welcome.
Please drop us a line at editor@animamundimag.com

ANIMA MUNDI Adventures in Wildlife Photography is a Free Bimonthly Online Magazine www.animamundimag.com

Publishers Andrea and Antonella Ferrari editor@animamundimag.com

Editor-in-Chief Andrea Ferrari editor@animamundimag.com

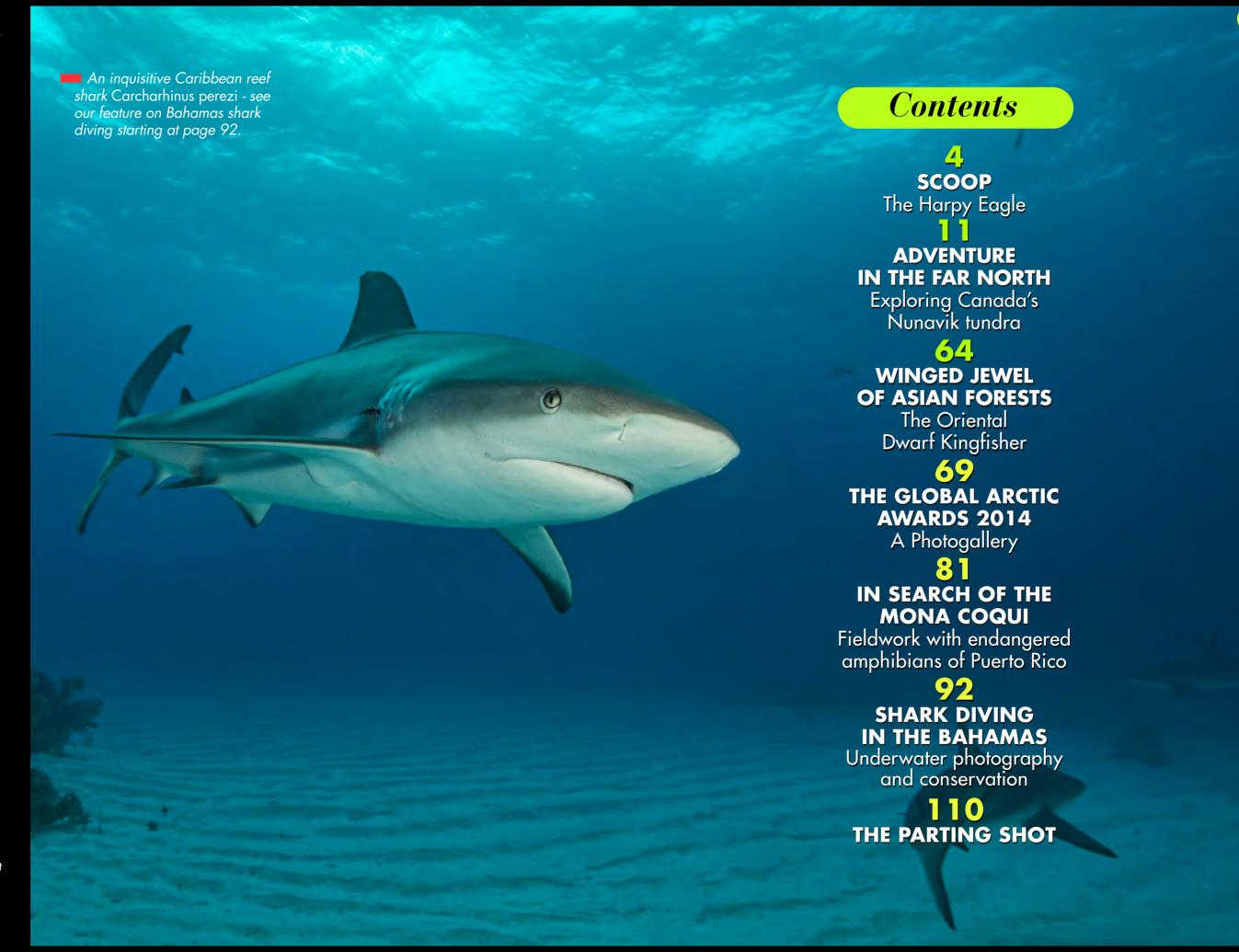
> Original Layout Design Laura Genovese Anna Bortolini

Videographer Antonella Ferrari anto@animamundimag.com

Video Editing Leon Joubert & Claudia Pellarini-Joubert info@bittenbysharks.com

Technical Support Komodo adv mail@komodo-adv.com

All rights reserved. Material in this publication may not be reproduced, modified or transferred electronically in any form without written permission from the copyright owners.



## PHOTOSHOT

THE WORLD OF PHOTOGRAPHY ON THE WEB



www.photoshot.com

+44 207 421 6000

sales@photoshot.com

## Wild Poland.com

Wildlife watching and photography in unscathed Eastern Europe



Huge resources on where to watch wildlife in Eastern Poland









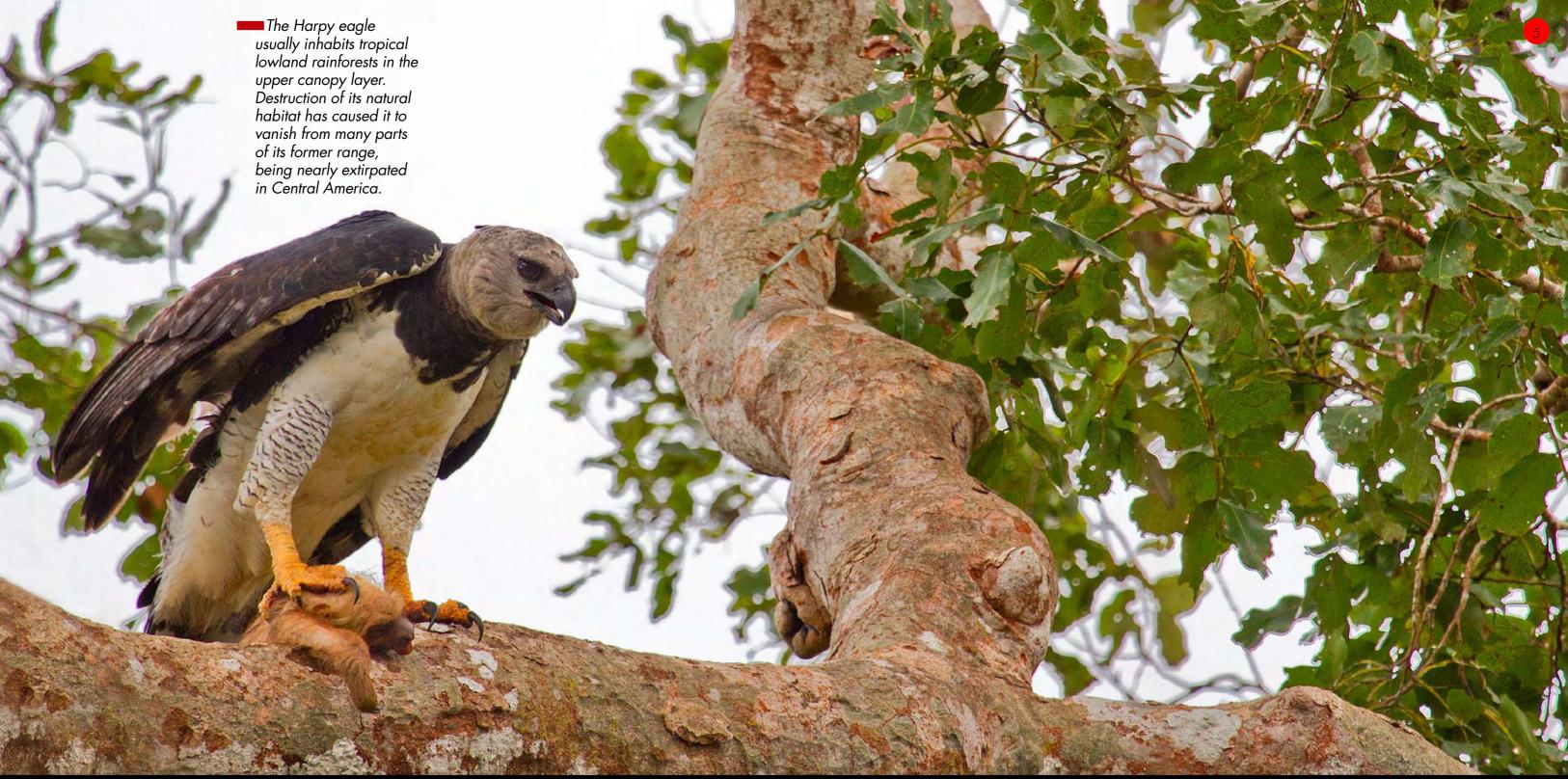




IF YOU ONLY SAW WHAT YOU WANTED, YOU PROBABLY MISSED A LOT - www.wildpoland.com





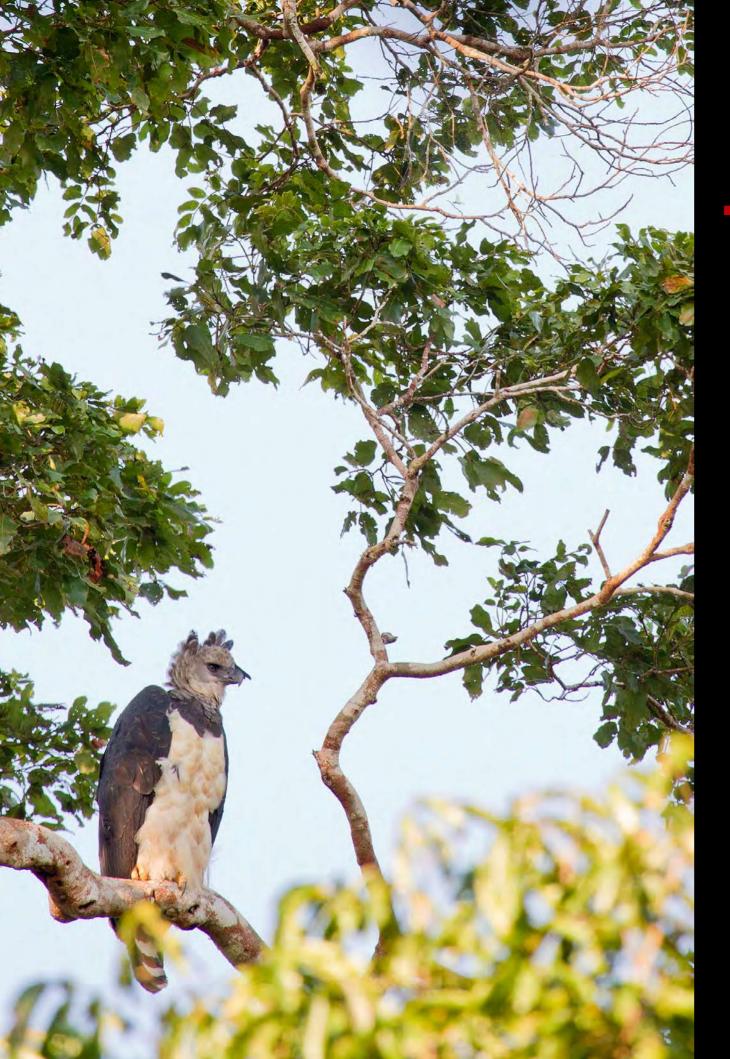


TEXT AND PHOTOS BY LUCAS BUSTAMANTE

really love to visit Tambopata Nature Reserve in the rainforest of the Peruvian Amazon. The place is perfect for taking wildlife pictures because there it is very easy to find large animals such as capybaras, peccaries, macaws, jaguars, etc. However, when I recently arrived at Refugio Amazonas, one of the three lodges from Rainforest Expeditions, I found the exotic surprise that a family of the seldom seen and severely endangered Harpy eagles were

in their nest! It was definitely an opportunity that few people have had. Together with Jaime and Jeff, two friends of mine, we climbed a 40-meters tall tree very close to the nest and we spent two whole full days up there, on a small platform. What an unforgettable experience! The mother and father brought different preys to the clumsy chick: a porcupine and a sloth, respectively, were on the menu during those two days. And how could we ever forget the

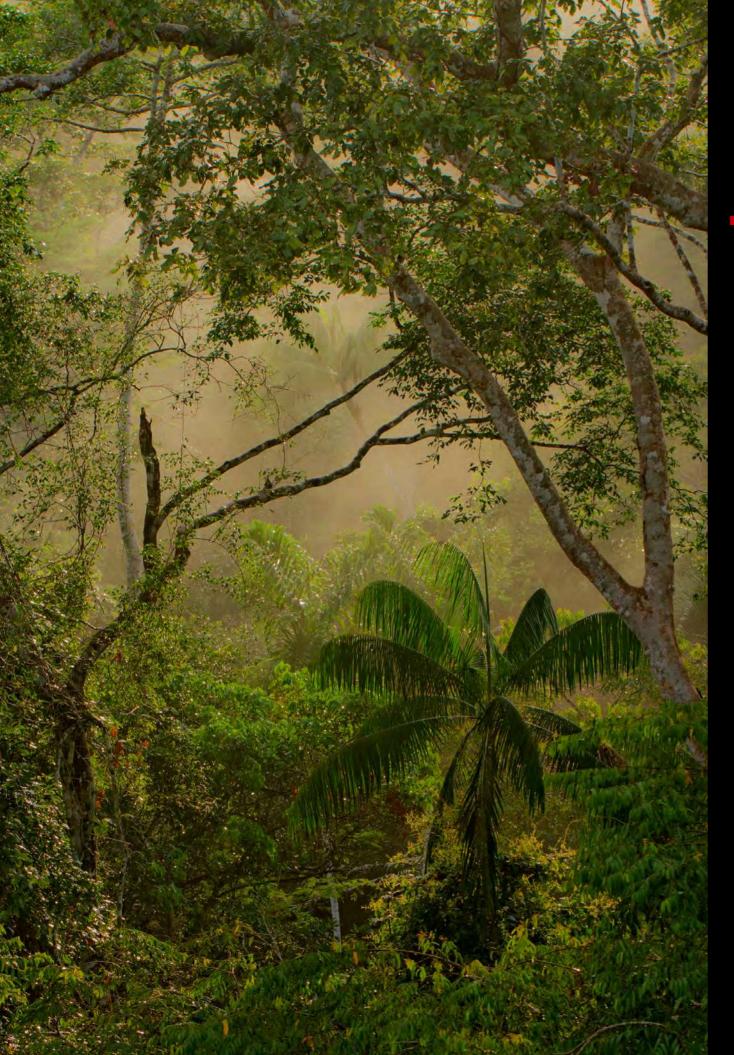
call of the female? In the undisturbed rainforests of Ecuador, there lives an Amazonian tribe called the Huaorani. They believe they are the descendants of the jaguar and the Harpy eagle, so they worship these two animals as their gods. As for myself, when I found myself in the jungle face to face, in this case, with the Harpy eagle, it was too like being in front of a griffin, the legendary creature symbol of divine powers.



The female Harpy
eagle lays two white
eggs in a large stick
nest, which commonly
measures 1.2 m (3.9
ft) deep and 1.5 m
(4.9 ft) across and
may be used over
several years. Nests
are located high up
in a tree, usually in
the main fork, at 16
to 43 m (52 to 141
ft), depending on the
stature of the local
trees. The Harpy often
builds its nest in the
crown of the kapok
tree, one of the tallest
trees in South
America. In many
South American
cultures, it is cultures, it is considered bad luck to cut down the kapok tree, which may help safeguard the habitat of this endangered species.







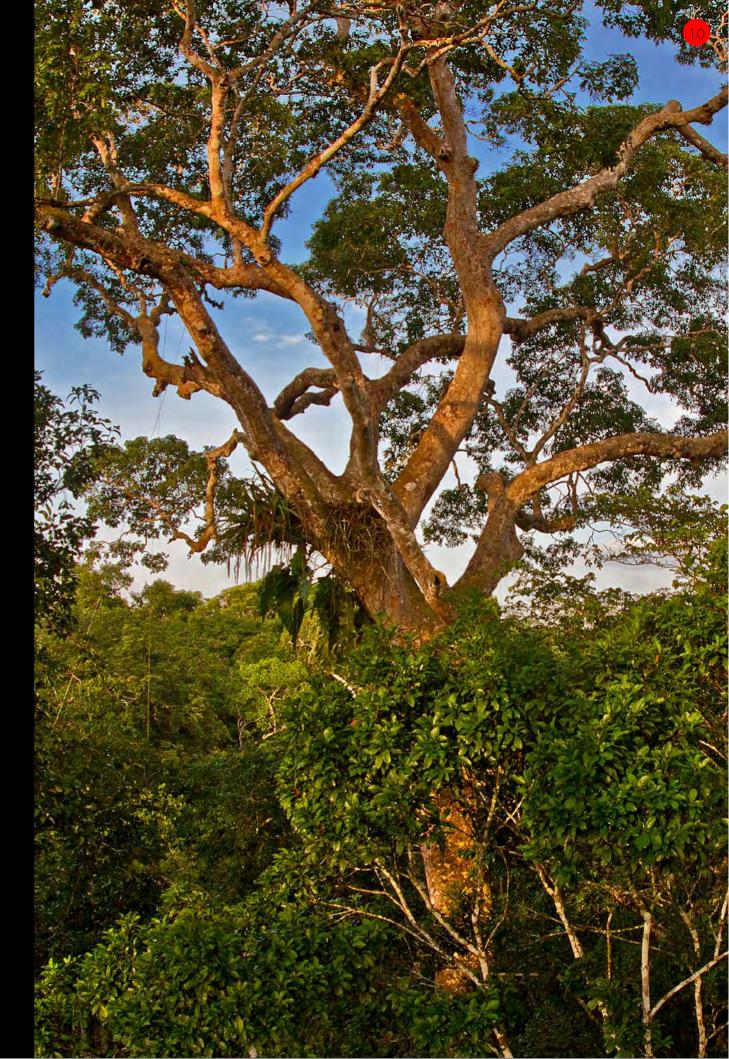
Although the
Harpy eagle still
occurs over a
considerable range,
its distribution and
populations have
dwindled
considerably. It is
threatened primarily
by habitat loss due
to the expansion
of logging, cattle
ranching,
agriculture, and
prospecting. prospecting.
Secondarily, it is
threatened by being
hunted as an actual
threat to livestock
and/or a supposed
one to human life, one to human life, due to its great size. Globally, the Harpy eagle is considered Near Threatened by IUCN and threatened with extinction by CITES (appendix I).







Harpy eagles
routinely take prey
weighing more than
7 kg (15 lb). They
possess the largest
talons of any living
eagle and they have
been recorded as lifting prey up to equal their own body weight. That allows the birds to snatch a live sloth from tree branches, as well as other as well as other huge prey items.
Males usually take relatively smaller prey, with a typical range of 0.5 to 2.5 kg (1.1 to 5.5 lb) or about half their own weight, while the larger females take larger prey, with a minimum recorded prey weight of minimum recorded prey weight of around 2.7 kg (6.0 lb). Adult female harpies regularly grab large male howler or spider monkeys or mature sloths weighing 6 to 9 kg (13 to 20 lb) in flight and fly off without landing, an enormous feat of strength.







Amphibians and reptiles are awesome... we show it!



An opportunity to escape from the routine and join us on an exciting adventure to experience tropical wildlife at its best!



Selva Verde Lodge & Rainforest Reserve



Sarapiquí, Costa Rica



Somewhere in the middle of a 500-acre tropical rainforest reserve is a place where you can get away from the world and be surrounded by it at the same time. That place is <u>Selva Verde</u> <u>Lodge & Rainforest Reserve</u>.

As one of Costa Rica's legendary eco lodges, we are committed to a sustainable future — not only for Selva Verde, but for the people and wildlife that call the Sarapiquí home. We proudly carry and support Costa Rica's Certification for Sustainable Tourism. We actively work with conservation partners, including the Sarapiquí Conservation Learning Center, to promote conservation and environmental education throughout the local community. Learn more about our efforts when you visit Selva Verde!

















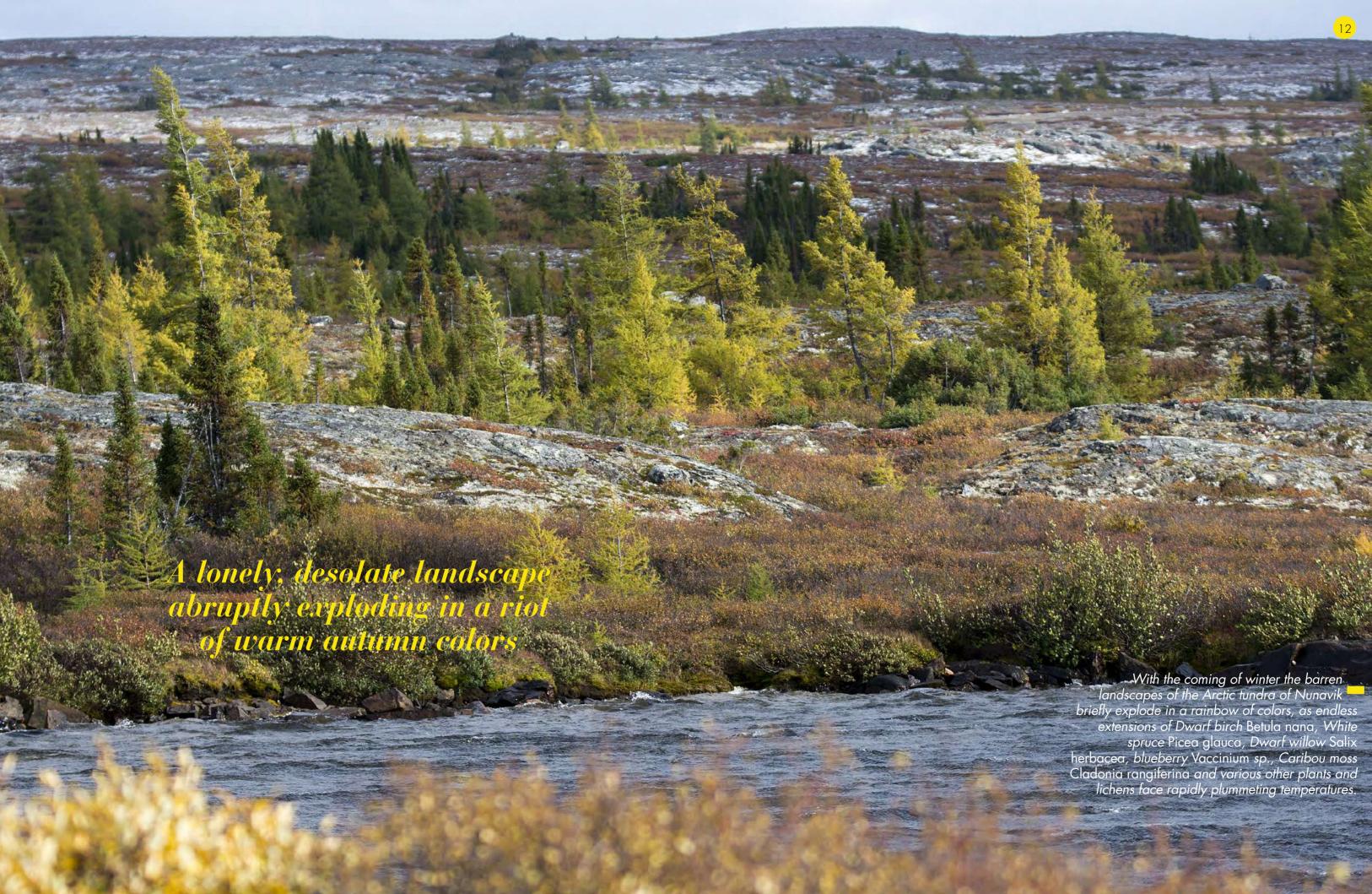
www.africawindows.co.za

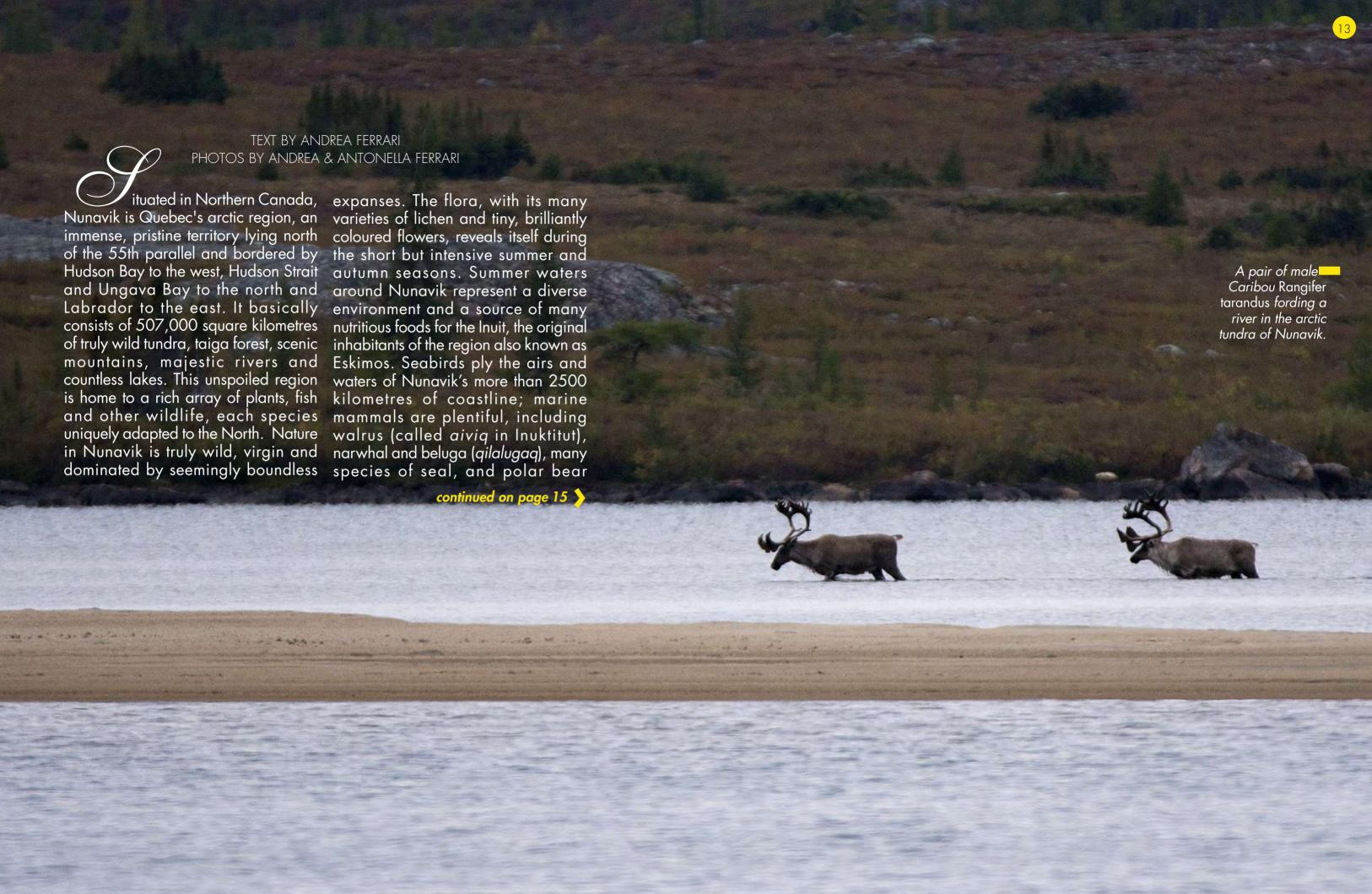




africawindows@lantic.net









A typical
Nunavik tundra
esker landscape
brightened by
an unexpected
rainbow - in full
sunlight.

(nanuk). Sightings of any of these species is an unforgettable but sadly rather uncommon experience for the visitor. Terrestrial wildlife in the region is just as diverse. The world's largest caribou herds, totalling almost one million head, roam freely in Nunavik and can be occasionally observed upclose - if lucky - in summer. The introduced Musk-ox (umimmaq) is a

more impressive species, and these can be approached more easily in summer and autumn, although in smaller numbers. Since time untold, marine mammals have been essential to Inuit life. Not only are they an important source of food - the pelts, bones, ivory and blubber of these animals were also traditionally used for tools, clothing, heating oil, shelters and boats. The most important species of marine mammals to the Inuit are ringed seal (natsig), bearded seal (ujjūk), walrus (aiviq) and beluga (qilalugaq). The near-legendary polar bear (nanuk) is an important symbol of the Arctic that is also classified by Inuit as a

continued on page 17 >



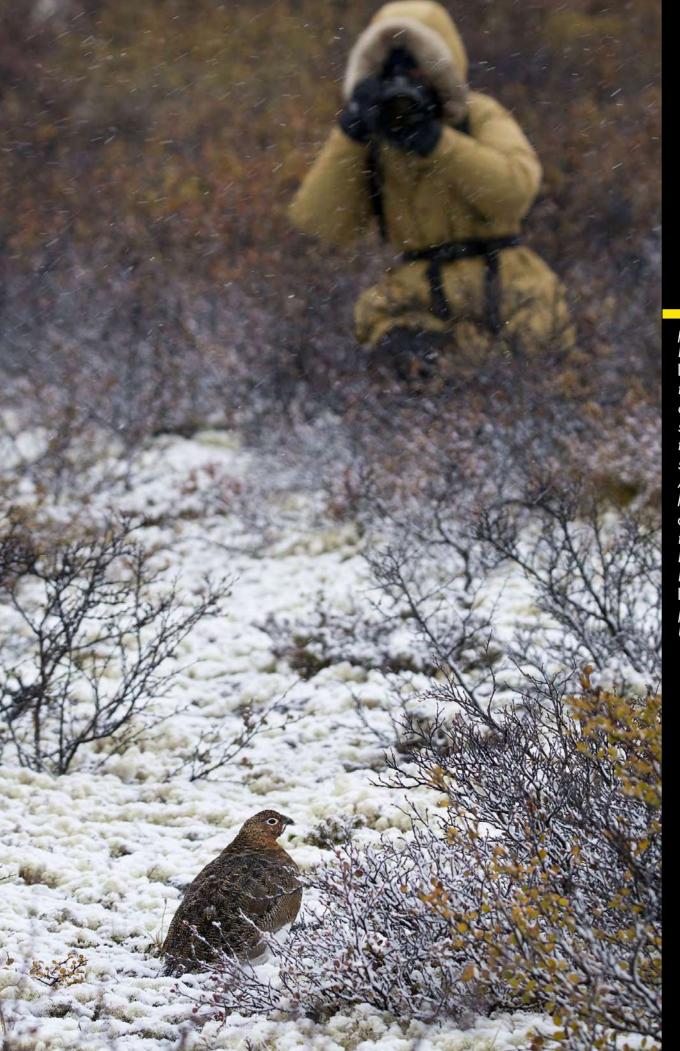
Endless vistas

unchanged since



A Short-tailed
Weasel
or Stoat
Mustela
erminea,
one of the few
mammals we
encountered in
the arctic tundra
of Nunavik.





Left, Antonella photographs a Rock Ptarmigan Lagopus muta in fall plumage during a snowfall; top right, Black scoter or American scoter Melanitta americana females; bottom right, Herring gull Larus argentatus juvenile, in Ungava Bay.





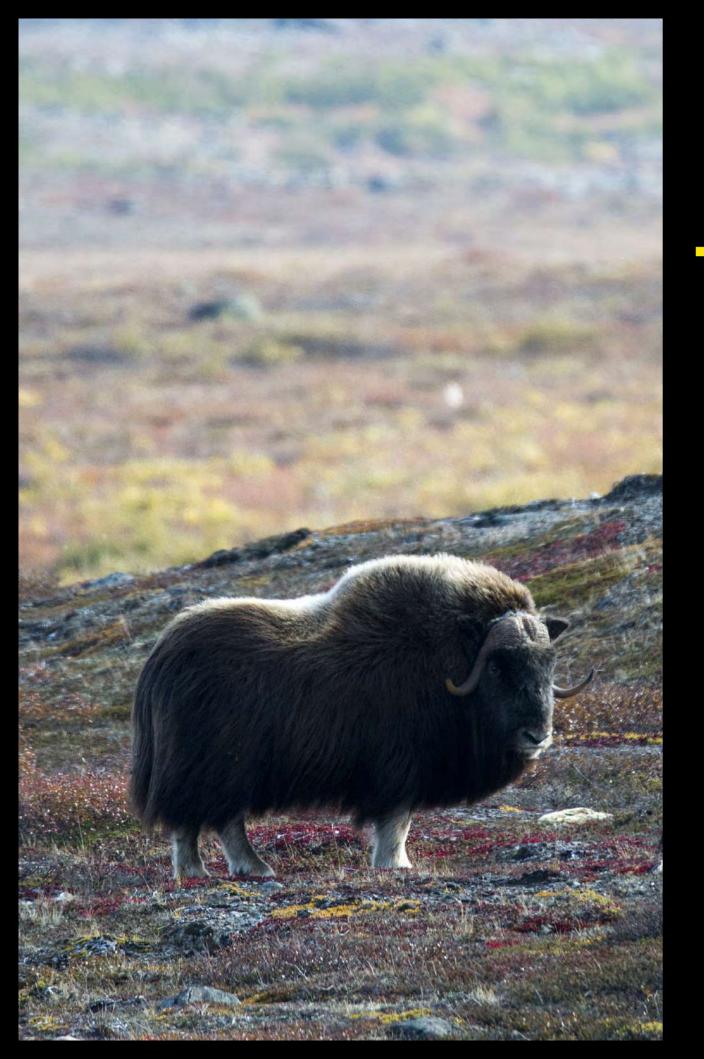




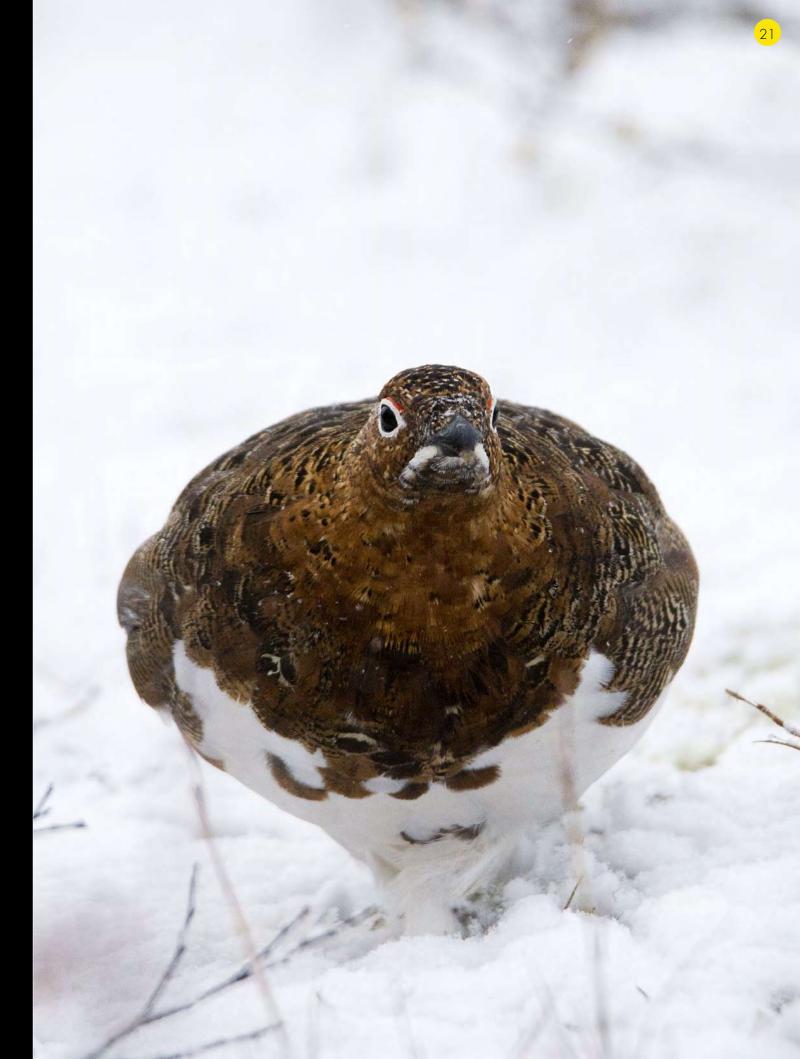
and cooked, but the thick skin (mattaq) is a delicacy, which happens to be rich in vitamin C. Beluga meat and fat is still used today to make igunaq and misiraq. Beluga skin was traditionally used for footwear, boat covers and dog whips. The history of Nunavik's muskox, on the contrary, dates back to August 1967. At that time, 15 youngs of these bovines, captured around Eureka on Ellesmere Island, were transported to an experimental farm located at Old Chimo (Kuujjuatuqaaq), a few kilometres downstream from present-day Kuujjuaq. It was hoped that captive musk-ox could be domesticated to boost socio-economic development.

continued on page 24

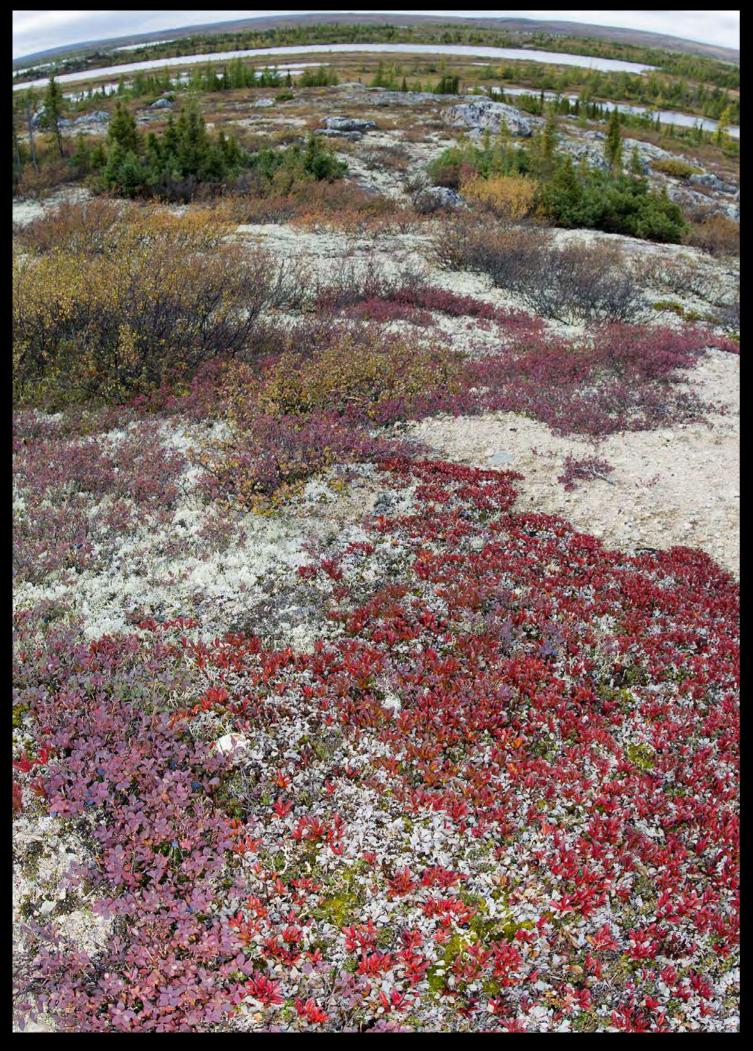
Canada geese Branta canadensis can be sighted migrating in huge flocks around October.



Left, a huge
Musk-ox Ovibos
moschatus bull;.
right, Rock
Ptarmigan
Lagopus muta
still in fall
plumage despite
the recent and
abundants
snowfalls. In a
few days it will
turn completely
white.



The billowing glory of the Aurora borealis lighting up the midnight sky A spectacular show of the Northern Lights, also known as Polar Lights or Aurora borealis, lights up the midnight sky above our wooden cabins at Wolf Camp, Wolf Lake, in the arctic tundra of Nunavik.





With the coming of winter the winter the barren landscapes of the Arctic tundra of Nunavik briefly explode in a rainbow of colors, as endless extensions of Dwarf birch Betula nana, Betula nana,
White spruce
Picea glauca,
Dwarf willow
Salix herbacea,
blueberry
Vaccinium sp.,
Caribou moss
Cladonia
rangiferina and
various other
plants and
lichens face
rapidly
plummeting
temperatures.

Inuit would use the soft, fine giviu (musk-ox wool) to make warm clothing for the harsh, cold winters and they would be able to incorporate meat from the animals into their diets during periods when caribou was not plentiful. Though the outcome of this socioeconomic experiment did not produce the desired results, the introduction of musk-ox to the tundra of Nunavik has been a great success. In Nunavik, the first animals to be released were three calves in 1973 near Tasiujaq. By the time the experimental farm at Old Chimo terminated operations in August 1983, a total of 52 head had been released at a few sites in the region. The new environment of these musk-ox suited them very well, and they began to reproduce successfully in the wild. Today, the Nunavik population is estimated at more than 2000 head. Since their situation is still precarious however, hunting is restricted by a quota system. In Inuktitut, musk-ox are called *umimmag* (the bearded ones). Musk-ox are one of the oldest species of mammals still living today. About one million years ago, the ancestors of these bovines roamed the steppes of Northern Asia, along with the mammoth. More than 90,000 years ago, this animal crossed the Bering Strait between Siberia and Alaska to populate North America. Fossils have been found in several sites in Canada and the United States, notably in Saskatchewan, Ontario and New







A large Musk-ox Ovibos moschatus bull in an icy drizzle, one of the few we could actually approach in the arctic tundra of Nunavik.





England. Hundreds of thousands of caribou roam the wilds of Nunavik. For centuries, the lives of many Nunavik Inuit have been closely tied to caribou and their migrations for subsistence and other purposes. For example, before the arrival of the modern world in the North in the 20th century, the hides of these animals were used to make clothing, such as the *qulittaq* (a parka held in great esteem because of caribou fur's exceptional insulating effect). Thread for sewing came instead from dried tendons.

#### SHORT SUMMERS LONG WINTERS

Nunavik is an immense region where spring may last for more than three months. The land, its forests and water bodies begin their annual reawakening near the end of March in the southern reaches of the region in communities such as Kuujjuarapik. However spring only arrives near the beginning of June in the north, in communities such as Ivujivik, Salluit, Kangiqsujuaq and Quaqtaq. Spring marks the return of Nunavik's migratory birds, large and small. Canada geese (nirliq) and eider duck (mitiq) to name but two species of waterfowl arrive among the first, to build their nests on offshore islands and await the hatching of their young. According to the Québec Breeding Birds Atlas, at the height of summer over 125 species of birds may be found in the southern forests of Nunavik and





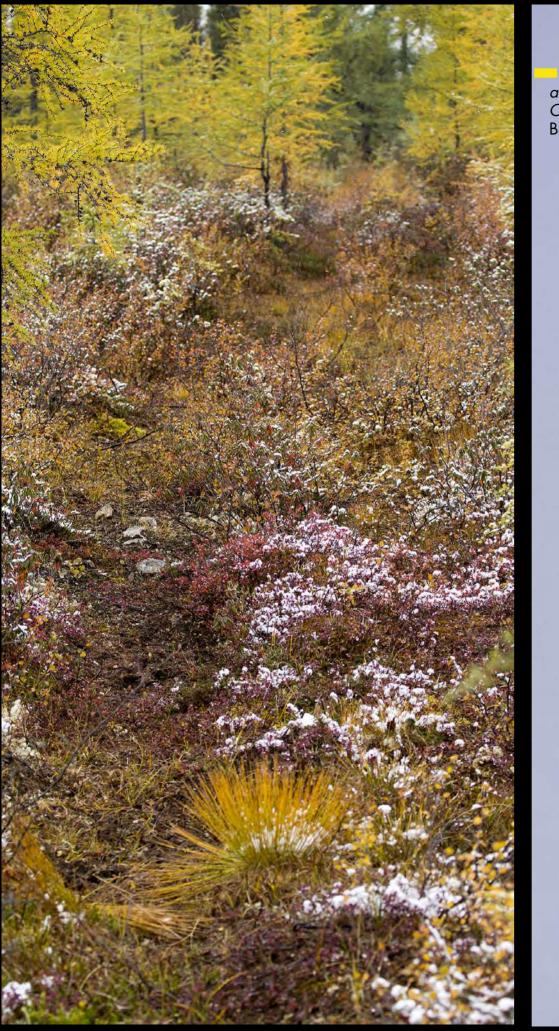
up to 50 species nest on the Ungava Peninsula above the tree line. Nunavik also nurtures populations of several birds of prey, well-known emblems of the North. These include the peregrine falcon (kiggavik) and the gyrfalcon (kiggaviarjuk), as well as the roughlegged hawk (qinnuajuaq), to name a few. Among the handful of bird species that reside year round in the region, it is worth mentioning the nocturnal snowy owl (ukpik) and one of its prey of choice, the ptarmigan (aqiggig). These species have adapted to the Arctic climate and may have feathered legs or be able to change their colouring according to the season.

## EXPLORING THE TUNDRA ENVIRONMENT

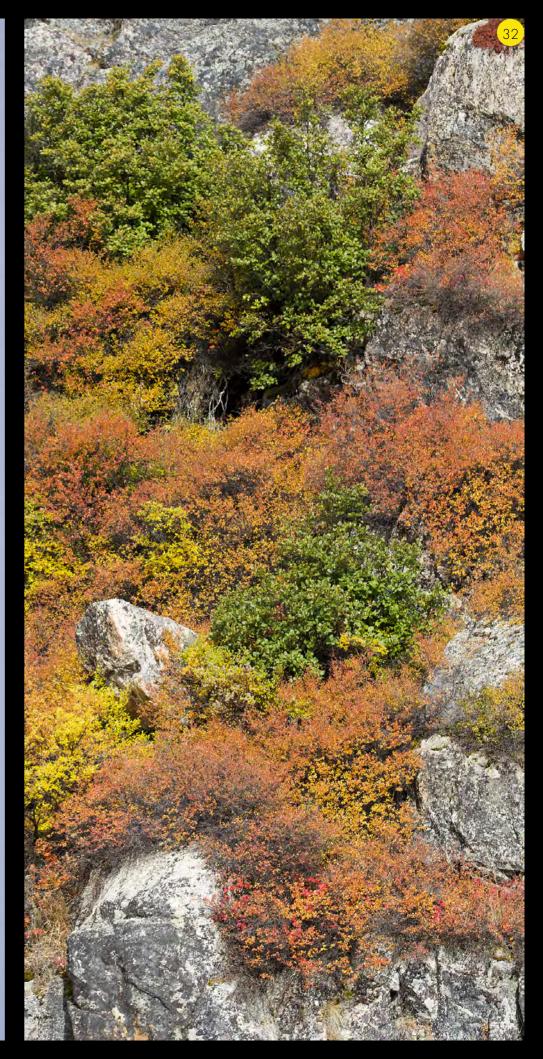
Exploring the Nunavik region is very costly and occasionally quite difficult, and wildlife photography there can prove exceedingly frustrating. Before committing to what could prove to be a very frustrating and uncomfortable trip, one should realize these are real expeditions to totally unspoilt, unpopulated, undeveloped areas where the great outdoors spread for thousands of miles in every direction. Accomodation is sparse and very basic, consisting mostly of run-down, unoccupied plywood cabins occasionally utilized by local and North American hunters, which still represent the majority of the very few

continued on page 35

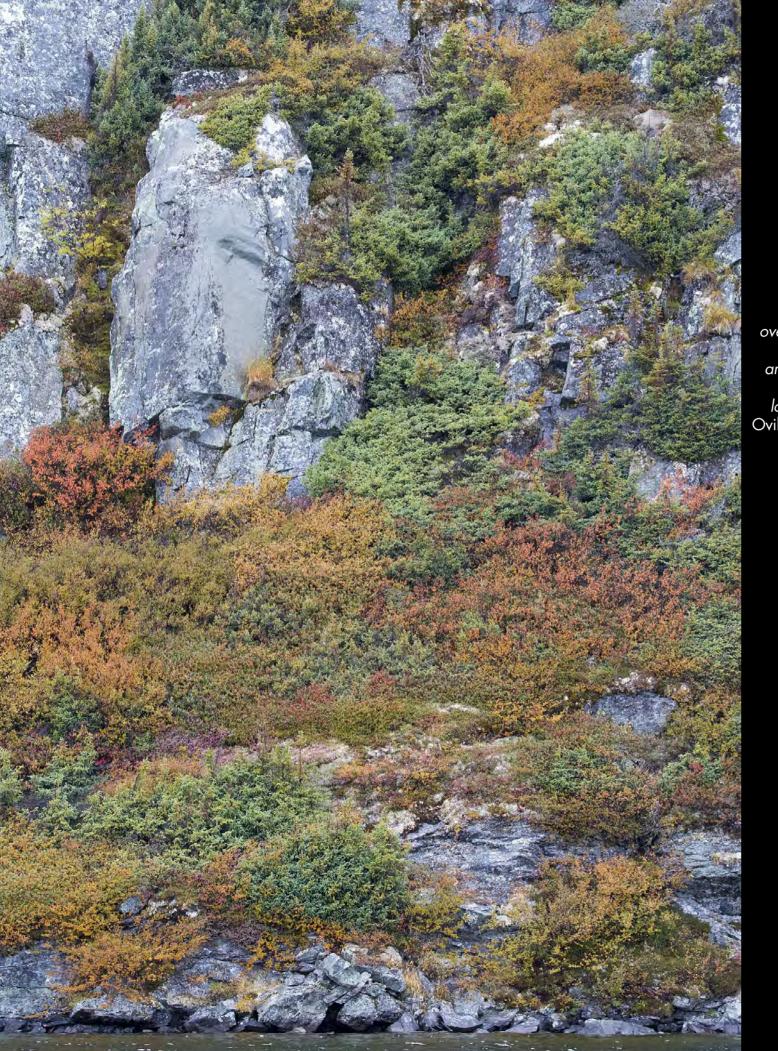












The steep granite cliffs overlooking Wolf Lake (left) are occasionally visited by lone Musk-oxen Ovibos moschatus (right).



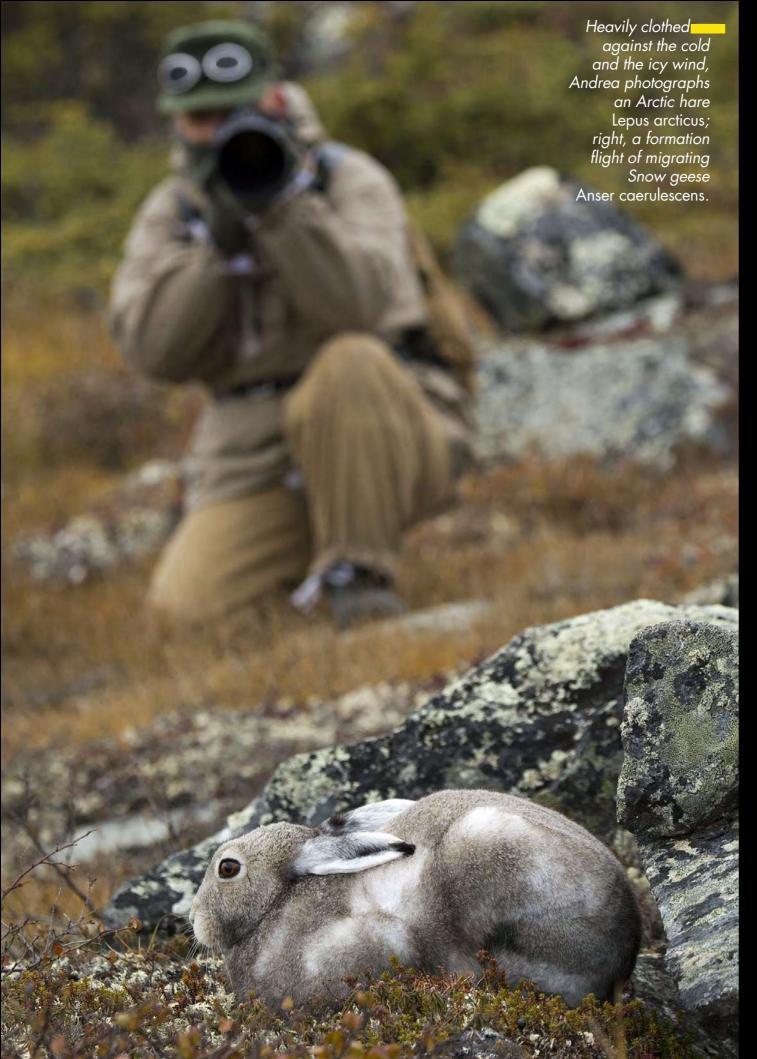






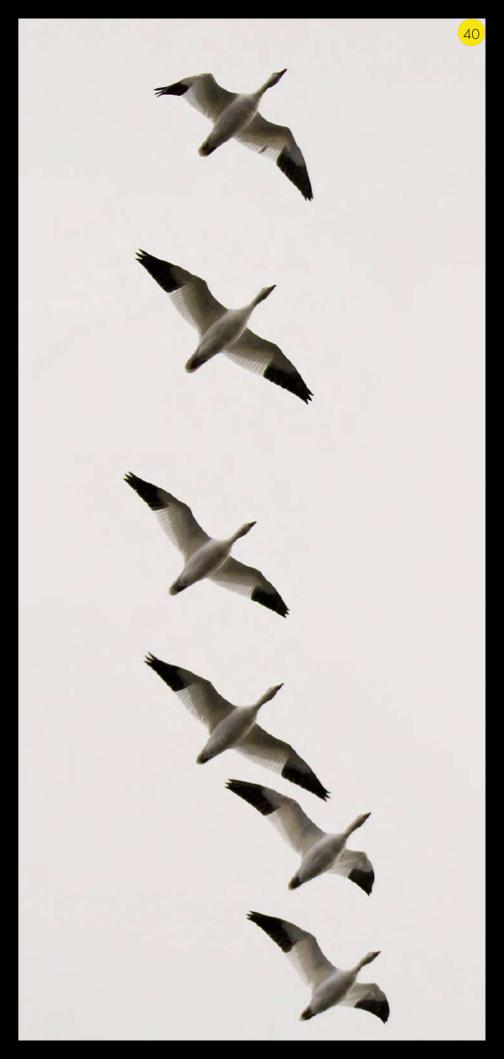






### A PRISTINE LAND OF GREAT EXTREMES

The best chances to see and approach the herds of caribou and musk-ox occur during the brief, stifling summer period - usually in August - when however the much-feared swarms of black flies and mosquitoes make life miserable for all, animals and visitors alike. Mosquito nets and full cover for hands and face are an absolute must for all - there have been documented cases of caribou actually having been driven insane by these implacable blood-sucking pests, which inflict countless, extremely painful, itchy bites. In summer the tundra is also lush and green - a strange sight. On the other hand, the best time for landscape photography and the spectacular, magical show of the Northern Lights or Aurora borealis is during September-October, when the tundra vegetation explodes in a veritable rainbow of reds and yellows before the onset of the long Arctic winter. Animals in October are less numerous and less easily approached (we only saw two caribou and never saw a bear in three weeks; only heard wolves once, at night), and weather can be absolutely upredictable - we often experienced bright warm sunlight, rain, drizzle, hail, thick fogs and snow blizzards in the course of a single day - but the stunning, endless tundra landscapes are at their absolute best, and there are no black flies or mosquitoes around.

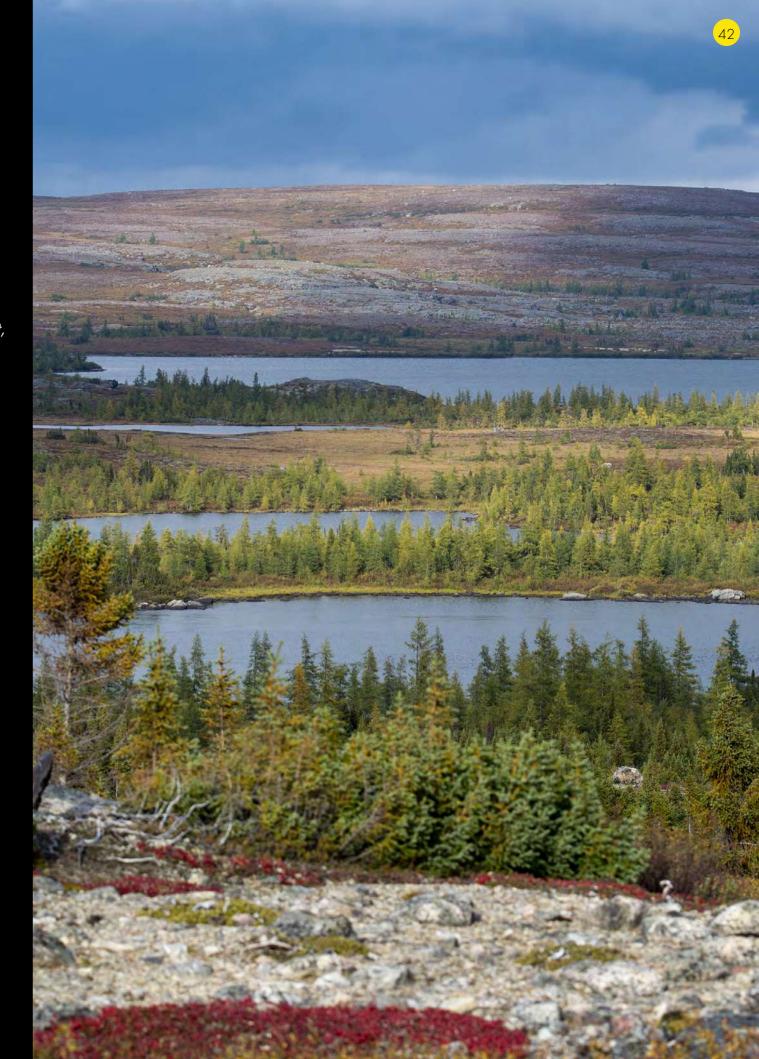


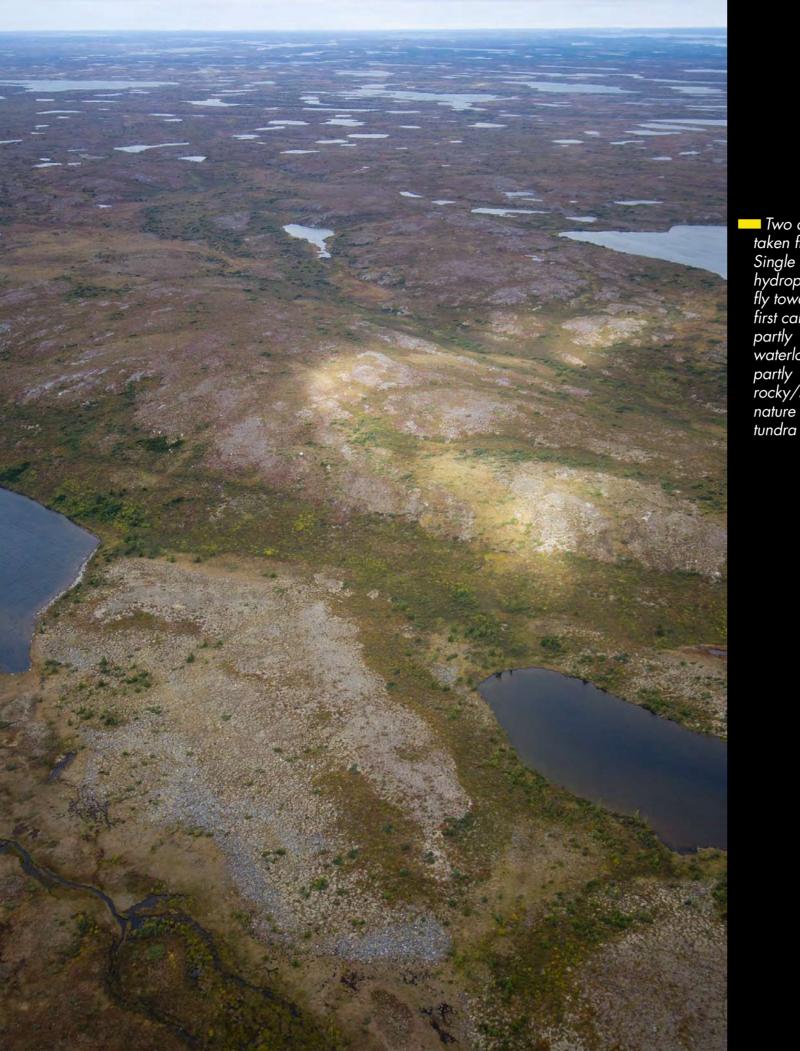


A big Musk-ox
Ovibos moschatus
bull faces the icy
wind of the tundra
- the harbinger of
the harsh Arctic
winter which is
coming fast.

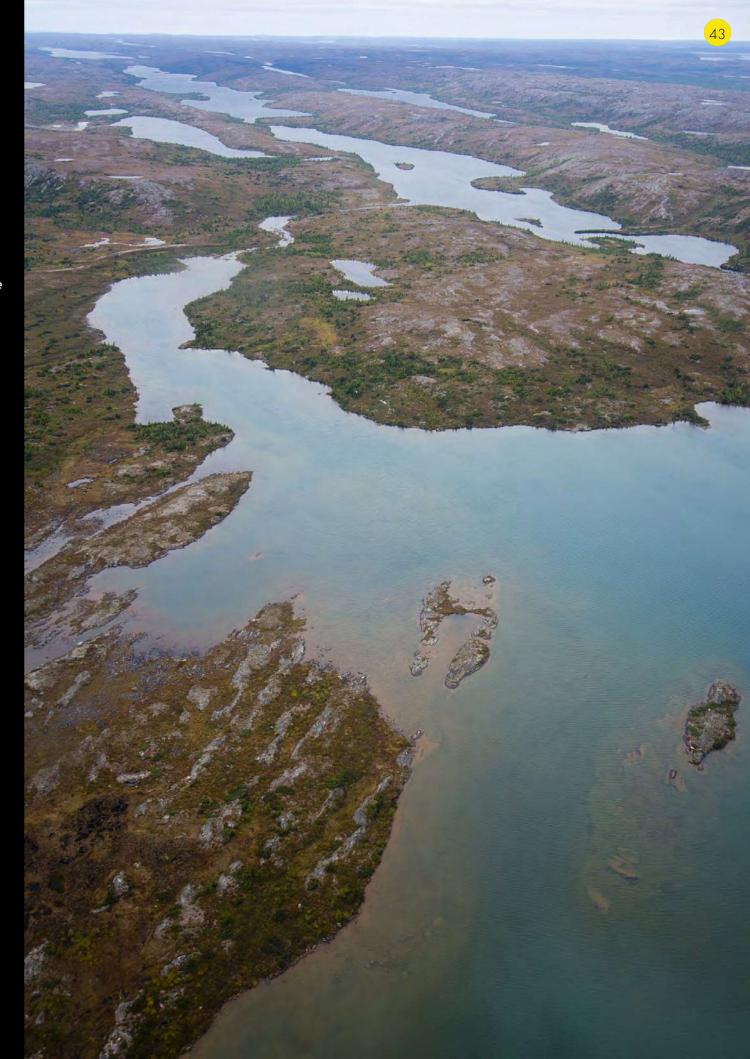


Left, Snowshoe
Hare Lepus
americanus; right,
esker landscape.

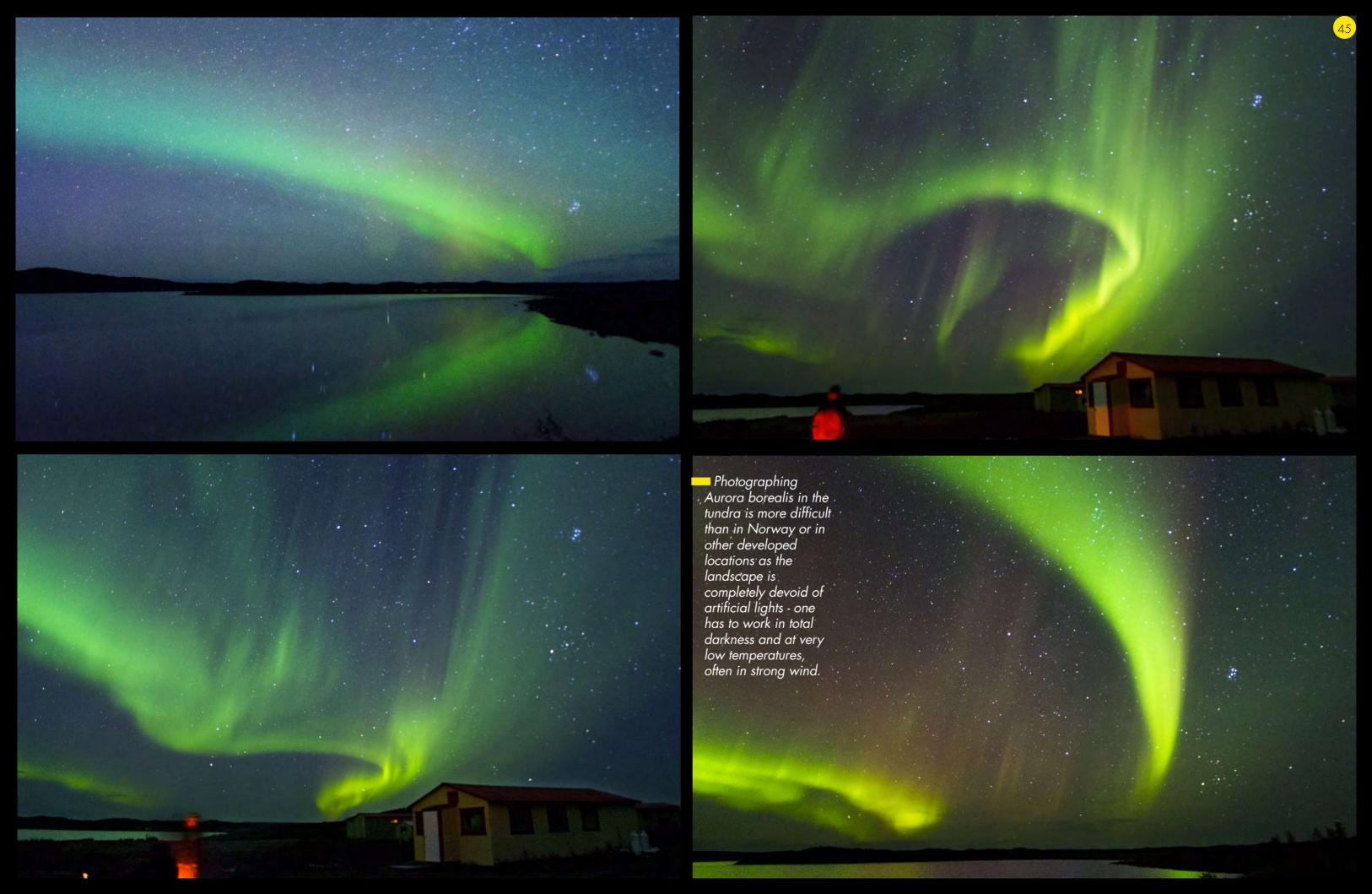




Two aerial shots taken from our Single Otter hydroplane as we fly towards our first camp - the partly waterlogged and partly rocky/sandy nature of the tundra is evident.









A beautiful
Peregrine Falcon Falco
peregrinus perches on
a lake shore.
This photo was taken
from our little boat.









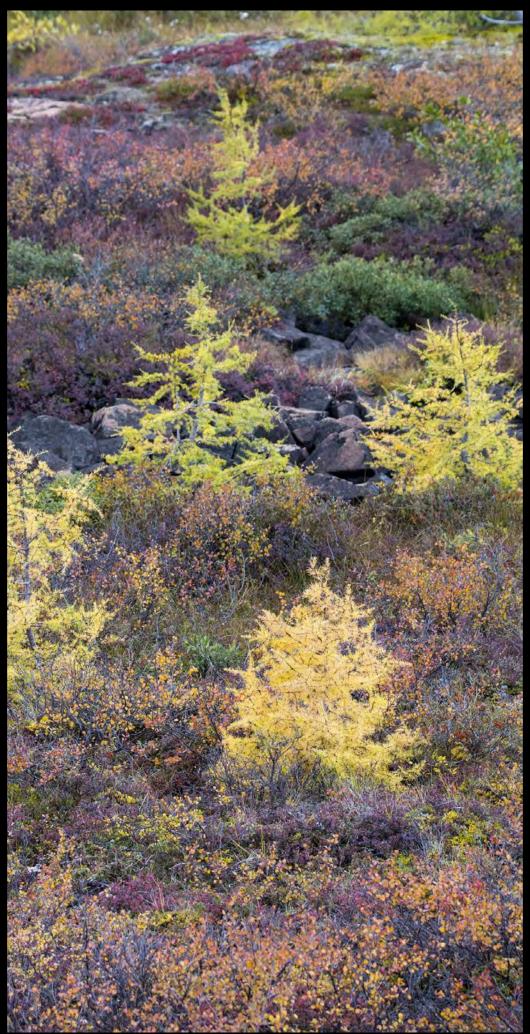




Two relatively common sights of the Nunavik tundra in October. Left, Arctic hare Lepus arcticus; right, Rock Ptarmigan Lagopus muta.

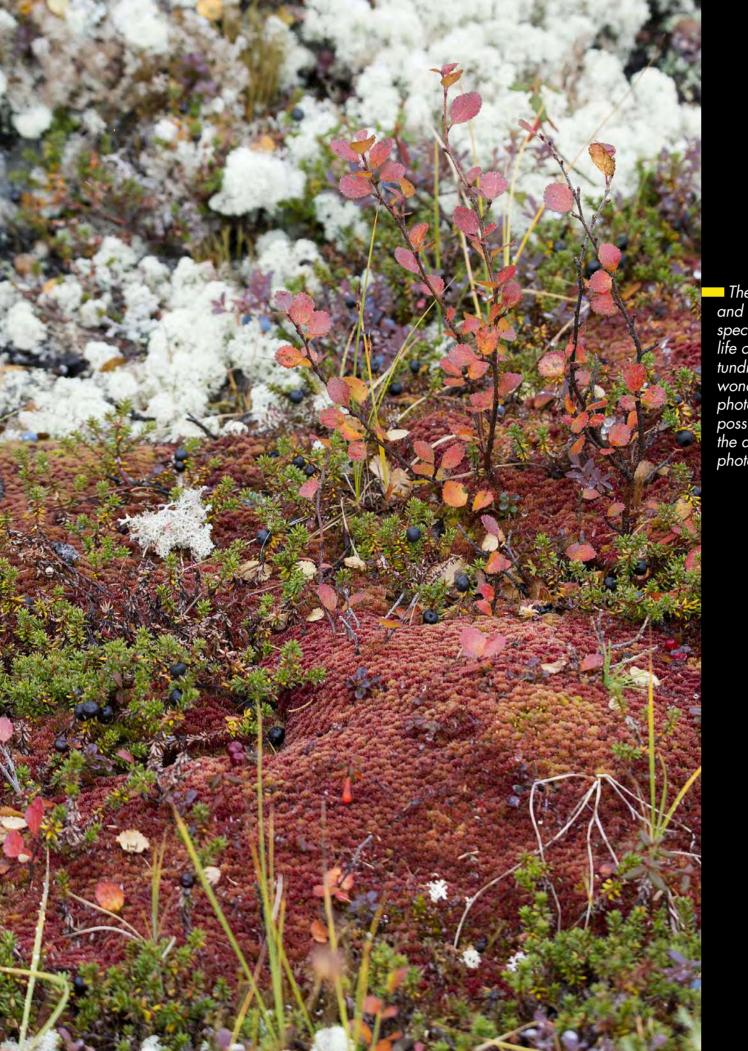




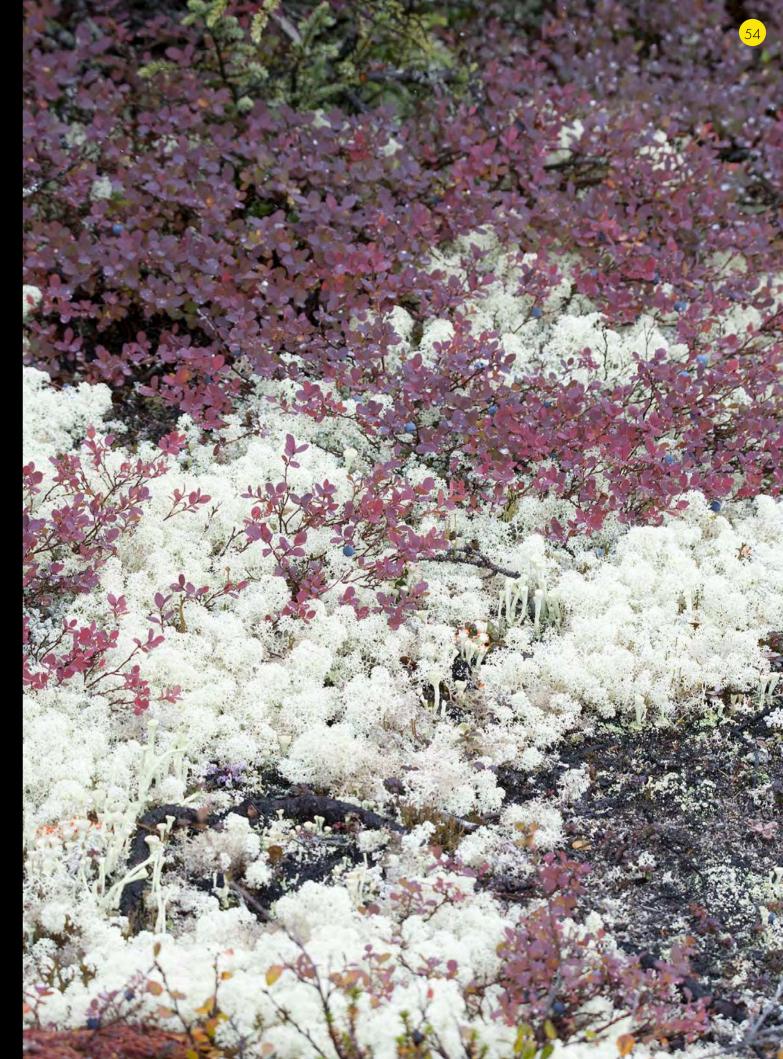




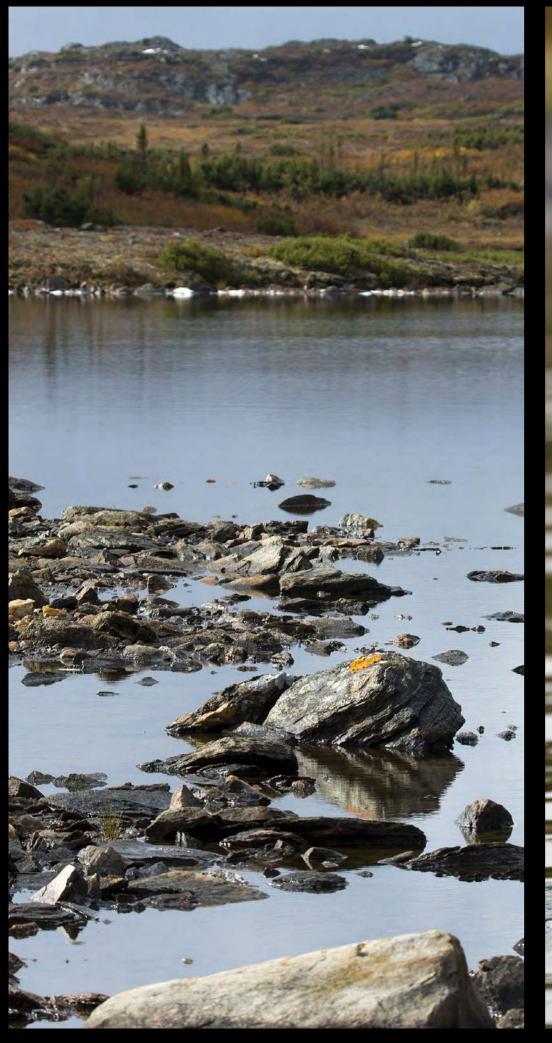




The miniaturized and highly specialized plant life of the Nunavik tundra offers wonderful photographic possibilities to the discerning photographer.



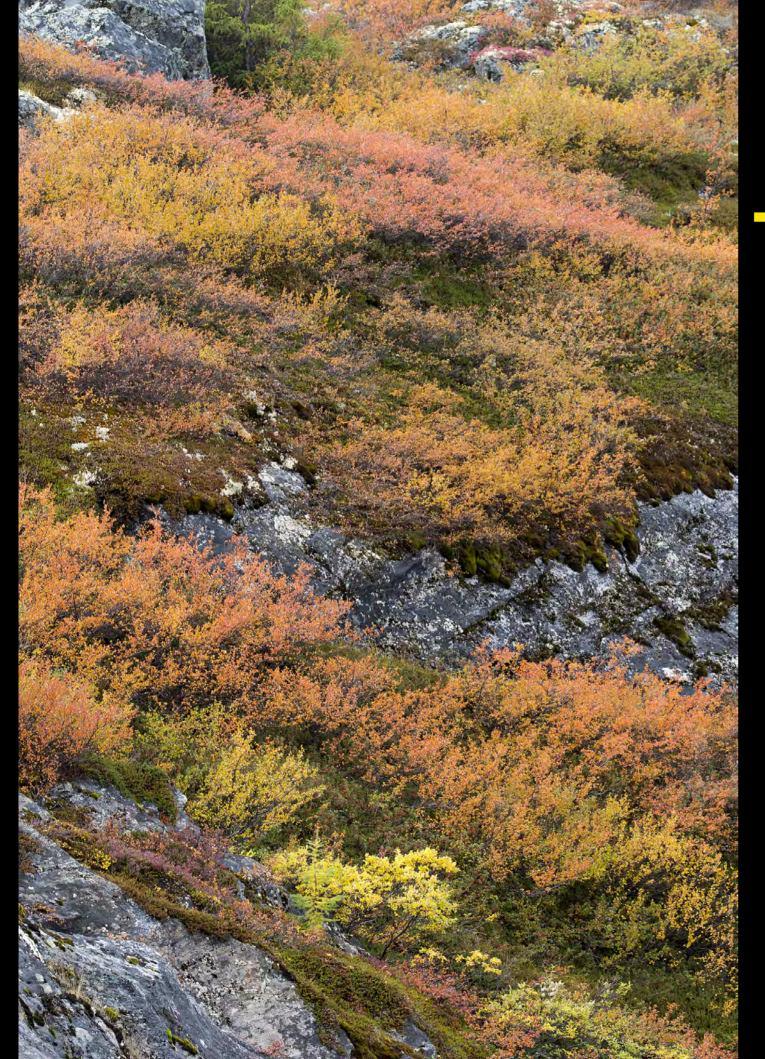




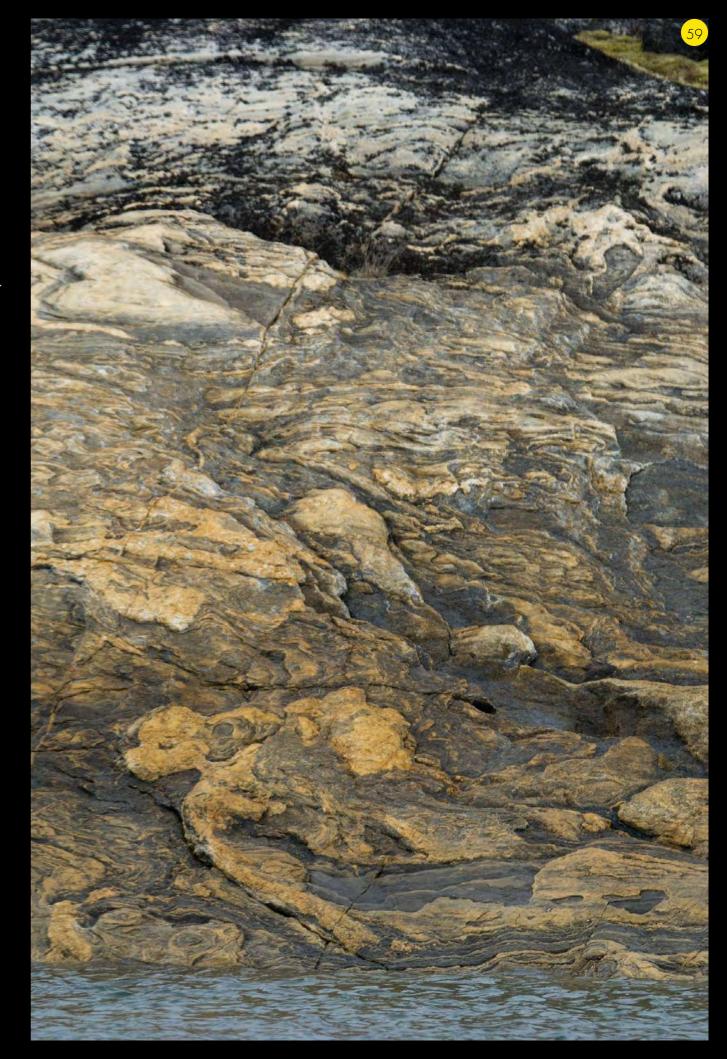








The barren,
occasionally
bush-covered
rocky shores
of the Ungava river
offer wonderfully
abstract and
occasionally very
colorful patterns.







# At-a-glance travel guide







### USEFUL TIPS FOR YOUR EXPEDITION

Some simple, common sense, field-tested advice and information to make the best out of your trip and avoid hassles, worries and problems

ROUTE: Your international flight will land at Pierre MEANS OF TRANSPORT: Small floatplanes to bunks in dormitory-style rooms. Single cabins of the Nunavik tundra, will depart the following morning. Once in Kuujjuaq you will be met at the airport by staff from Great Canadian Wildlife Adventures who will take you and your trip Euros are commonly accepted in Kuujjuaq - the only companions to the jetty, where you'll board a floatplane - loaded with fuel barrels and canned food provisions - for the low-level flight to the camp. **ACCOMODATION:** Visitors normally stay at This can be a short hop or a longer, 60-minute flight, depending on the location of the chosen camp.

Elliott Trudeau International Airport in Montreal, reach the base camps, then it's only walking. Bring accomodating two people are available at Wolf Canada. We strongly suggest to rest and spend the very sturdy, heavily insulated, waterproof calf-height. Camp. Basic heating is provided by oil stoves but night in one of the airport's hotels as the domestic rubber boots to ford brooks and walk on there is no running water and visitors must use flight to Kuujjuag, gateway to the endless expanses waterlogged moors but also expect long stretches of outdoor latrines. You'll need your own Arcticsandy, loose soil and rocky patches.

> **CURRENCY:** Canadian dollar, but US currency and outpost where one can actually pay for anything.

> unused hunting camps, in extremely basic plywood, semi-insulated barrack-style cabins, sleeping in

insulated sleeping bag. Those wishing to spend the night in Kuujjuaq (a good idea if you have a connecting flight) can stay at the excellent but somewhat pricey Auberge Kuujjuag Inn.

**FOOD:** Extremely basic - mostly stove-cooked frozen meat, processed meat or canned foodstuff. Do not expect fresh vegetables, fresh fruit or fresh eggs. Drinking water comes directly from the rivers.

## Exploring a beautiful and barren wasteland in complete solitude









and - for those interested - the complex, fascinating day and below freezing at night in October. Dress Inuktitut spoken by the local Inuits.

while fording streams or climbing rocky slopes as a

sensitive individuals might have the occasional absolute must here - again, remember you will be emergency evacuation would cost you a fortune.

LANGUAGE: American English, Canadian French to 30°C at noon!), exceptionally variable during the century and the many more which followed in the in several layers and bring thermal underwear. Keep in mind you won't be able to wash - neither your own **WORRIES:** Basically none. Care has to be taken dirty clothes nor yourself - for most of your stay.

sprained ankle - or worse - could easily become a **BESIDES**: Good-natured, friendly and hospitable, problem given the absolute isolation of the location. the Inuit and their ancestors have lived in harmony with nature for thousands of years, leading however **HEALTH:** No problems whatsoever. Particularly an existence of unbelievable hardships in these barren lands. Roughly 4500 years ago, a migration stomach problem being unused to drinking river began from Alaska, with the paleo-eskimo taking water. A small travel set of common medicines one 500 years to arrive in Nunavik and living there for the coasts of Hudson Bay, Hudson Strait and Ungava might normally need and a good insurance are an for 1500 years. Around 1000 AD, the Thule Bay. Only four of these communities have (ancestors of the Inuit), finally appeared in the populations of more than 1.000. These are on your own and in the middle of nowhere, and an western part of Northern Canada. Rapidly, groups Kuujjuaq, Puvirnituq, Inukjuak and Salluit. While the belonging to this new culture commenced migrating people's mother tongue and regular language of and settling eastward. The first European fur-trading communication is Inuktitut, many Inuit speak English CLIMATE: Warm and relatively humid in August (up posts, which were established during the 18th as a second language and some French as well.

19th century, changed everything - even if some areas continued to have no direct contact with people of European descent until the 20th century. Despite this, the fur-trading period sadly marked the beginning of drastic and irreversible changes in the lives of the Inuit of Nunavik. Even though today the Inuit way of life is more diversified than in the past, hunting, fishing and gathering activities for subsistence purposes remain central to life in Nunavik. Today, Nunavik is inhabited by close to 10.000 Inuit, who live in 14 modern villages along



**Nunavik Tourism Association** 

+819-964-2876 www.nunavik-tourism.com

**Great Canadian Wildlife Adventures** 

+608-370-5071 www.thelon.com





#### **GLENN BARTLEY'S PHOTOGRAPHY WORKSHOPS**

UNFORGETTABLE BIRD AND NATURE PHOTOGRAPHY WORKSHOPS FROM AROUND THE WORLD







ECUADOR COSTA RICA VANCOUVER ISLAND







CHURCHILL PERU PHOTOSHOP & PRIVATE LESSONS

For More Information:

www.glennbartley.com ~ rgbartley@gmail.com ~ 250-412-2904

**CLICK HERE TO SIGN UP FOR GLENN'S FREE MONTHLY NEWSLETTER** 





"My experience was EXCEPTIONAL! The trip exceeded my expectations in all areas. I hoped to get in a position to see owls and couldn't possibly have been happier. It was abundantly clear that David invested significant time and effort prior to the arrival of the group in scouting the area around Quebec and Ontario. He knew exactly where to go to find every species of owl. His knowledge and efforts were very much appreciated by the entire group. My primary objective was just getting in a position to photograph owls and was not expecting much in the way of photographic instruction. I was very pleasantly surprised and was very happy with the instruction. Prior to the trip I had a love/hate relationship with auto focus as it applies to photographing birds in flight. I've struggled with this for years. While I have a lot more to

NATURES PHOTO ADVENTURES

Photographic Learning Travel as yentures

"Our goal at Nature's Photo Adventures
is to lead instructional photographic workshops
to the some of the world's most beautiful and unspoiled destinations
while providing a rewarding and educational learning experience".

"We strive to exceed your expectations, taking you on an adventure and a once in a lifetime experience. Explore nature, share, learn and develop new levels of photographic skills and leave with fantastic photographs and

wonderful memories and new found friends."

David Hemmings - President, Nature's Photo Adventures

learn, and need to work at honing my skills, the trip with NPA helped me tremendously in being able to photograph birds in flight. Photographing birds in flight was my main objective. Prior to the trip I was nearly clueless in comparison to my skills after the trip. You can also see from my bird list that I found the trip productive from a birding perspective as well". Kevin McCarthy, USA

"I recommend NPA workshops! The level of services by workshop leaders was excellent. Quality of photographic instruction was exceptional and they

were always on hand to solve issues that arose, and I had more than my share of equipment issues. Quality of wildlife provided was good and I was amazed at how easily the subjects accepted new setups provided. Locations visited were right on for the spices targeted. My most memorable moment was using the flash setups the first time and capturing an image of the Swordbill Hummingbird. I feel that my level of photography has improved with the custom functions that were set up on my camera for me and the resulting images that I obtained. Overall experience and

expectations were achieved and we were fortunate to have a very compatible group on our tour, which made it very enjoyable. This was my first workshop and I would recommend them to friends".

Rosemary Harris, Canada

"Great trip, great experience and great workshop leader. Great opportunity for capturing images of magnificent and uncommon (in southern USA) birds. Organizers contribute to great group dynamics and superb attitude. Cool techniques". *Eric Grossman, USA* 

info@naturesphotoadventures.com http://www.naturesphotoadventures.com







A precious encounter with the stunningly colorful bird regales wonderful emotions and fond memories to passionate photographer Megh Roy Choudhury





The Oriental Dwarf Kingfisher Ceyx erithaca, also known as the Black-backed Kingfisher or Three-toed kingfisher, is a small species belonging to the Alcedinidae family. The ODK is a small, red and yellow kingfisher, averaging 13 cm (5.1 in) in length, with yellow underparts and glowing bluish-black upperparts. The Rufous-backed Kingfisher is sometimes considered a subspecies.

# Ceyx erithaca

The preferred habitat of this species is small streams in densely shaded forests. In the Konkan region of Southwest India, it breeds with the onset of southwest monsoon in June. The nest is a horizontal tunnel up to a metre in length.

#### TEXTS AND PHOTOS BY MEGH ROY CHOUDHURY

wait. I wait with a bated breath. I sit like a monk, in absolute silence, ensconced in a dream world. The sound of rain surrounds me with a harmonic drumming. Pearly droplets bounce off my skin, as sparkly and effervescent as champagne bubbles. Silver trickles of water fall and run down on the shiny leaves, before lazily cascading down to mother earth. A heavenly earthen aroma fills the air, permeating deep into my senses. A surging stream gurgles joyously over the rocks before plunging into a small gorge. The lush green of the evergreen trees completes the fairy tale ambiance. The scenario is picture perfect for my long awaited rendezvous with one of the Almighty's most breathtaking creations!!!

As I pray for the heavenly outpour to show some mercy, the rain god relents and chords of soft light filters through the barely perceivable gaps in the dense canopy. A red and orange missile whizzes through the still air and drops anchor on a branch in front of me. For an infinitesimal moment my entire world freezes. Sitting right in front of me is the Oriental Dwarf Kingfisher. "The Jewel of the Western Ghats" and one of the birds I wanted to have a glimpse of, before I breathe my last! It is without an iota of doubt, one of the most exquisite birds in the world. A rainbow would be deeply abashed to even compete with this jazzy bird. As my eyes hungrily feast

on the kaleidoscopic beauty, I feel a profound sense of euphoria like never before.

More drama is yet to unfold! The proud parents have built up a nest on the sloping banks of the stream and have their young ones anticipating a luscious meal. Prey after prey is caught and dished out to the hatchlings, which have a truly humungous appetite. Skinks, spiders, crabs, frogs and other creatures run helter-skelter to escape the wrath of these highly proficient hunters. Periodically, like a clockwork, either of the parents arrive at the nest, always clutching the next course of the meal. It always as a rule lands on the same perch and spends some time catching its breath. Some acrobatic moves are on display on the branch and often it bobs its head up and down like a Chinese doll. The next instant, it takes off and darts inside the nest. While the fledgelings devour their munchies, some heartfelt family moments are spent, some pearls of wisdom conveyed to the progeny. Then in a flurry of motion, the kingfisher flies out of the nest, relentless in the pursuit of its next target.

Almost as an afterthought, I start photographing these magnificent specimens of nature. It is an utterly exhausting effort to wield a camera



The clutch of four or five eggs hatches in 17 days with both the male and female incubating. The birds fledge after 20 days and a second brood may be raised if the first fails. The young are fed with geckos, skinks, crabs, snails, frogs, crickets, and dragonflies.

in such testing circumstances. Light is almost nonexistent and rain, which can start pouring cruelly and incessantly, creates a difficult situation to any photographer. A poor umbrella spread over my head makes a valiant effort to keep the nature's fury in check, often failing miserably. Camera and lenses have been draped in a watertight fashion as a secondary line of defense. Unheard of ISO and shutter speeds come into play, as I strive to fashion a respectable image of this resplendent treasure.

As I sit there underneath my makeshift accommodation and wait for the next foray of the kingfisher, I start reminiscing about my journey to this paradisiacal habitat. The awe-inspiring odyssey to this place weaves through the mystical Western Ghats, a magical land of verdant greenery. Torrential rain, innumerable waterfalls and dense green forest create an enchanting visual extravaganza. The beaten paths are encompassed by the colossal cerulean mountains, which appear to extend till the heaven. I feel I am on the top of the world as we saunter through the cloud covered soaring hills and abyssal valleys. One feels like stopping the vehicle and soak in the beauty of nature.

A pleasant intrusion to my dreamy reverie comes in, when the kingfisher disembarks again with a catch of a multicolored skink. Bewitched as ever, I go on a clicking spree. My eyes can't get enough of this tiny soul, which keeps me spellbound again and again. Two captivating, gleeful days in this cradle of

68

nature just fly by. The whole escapade makes me blissfully buoyant and supremely confident as I come through some of the most grueling conditions known to man. The realization that I have successfully accomplished the photographic documentation of this elusive bird also fills me with fathomless joy. I thank God one more time for inculcating in me, this love for nature and the passion for the wild. Wholly content and sated I head home, these unforgettable moments indelibly etched into my memory.

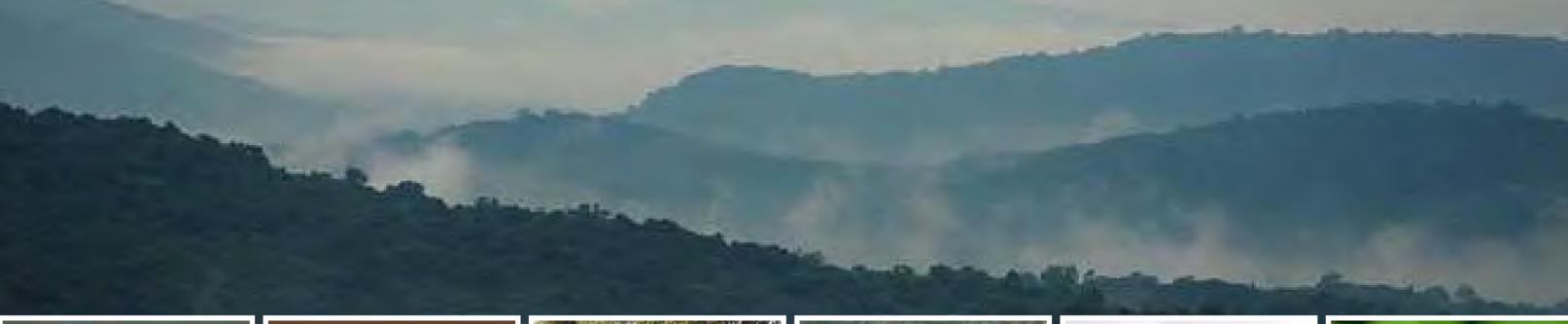
Chiplun, a tiny hamlet situated deep in the heart of the Konkan, is around 240 kms from Pune. Nishikant Tambe (fondly known as Nandu) is a true conservationist at heart. To him the Oriental Dwarf Kingfisher is the prime priority and it is treated like royalty. Any compromises which can harm the bird are not at all tolerated. Nests are not disturbed at any cost and a strict code of does and don'ts are conveyed to every photographer. A nominal amount collected by him wouldn't even cover the cost of two days of home stay and the delicious food served by his family members. You always end up admiring his intense fondness and dedication towards the ODKFs, which appear to relish the attention showered on them and are thriving in large numbers. I'm sincerely happy that these birds ultimately have found a safe haven in this tiny spot amidst the widely spread Western Ghats.



A widespread resident of lowland forest, this species is endemic across much of the Indian subcontinent and Southeast Asia. It is found in Bangladesh, Bhutan, Brunei, Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Singapore, Sri Lanka, and Thailand.

### Experience the wilderness in India's Western Ghats



















# Discover "Wild" India with expert naturalists



- Customized Jungle Safaris with or without an expert naturalist by your side
- Visit Historical & Cultural Places like Khajurao, Agra, Jabalpur, Jaipur, Nainital, Kolkata, Ahmedabad - and explore National Parks such as...
- Bandhavgarh, Kanha, Ranthambore, Corbett, Kaziranga, Tadoba, Bandipur, Sunderbans, Sasan Gir



**ADVERTISEMENT** 

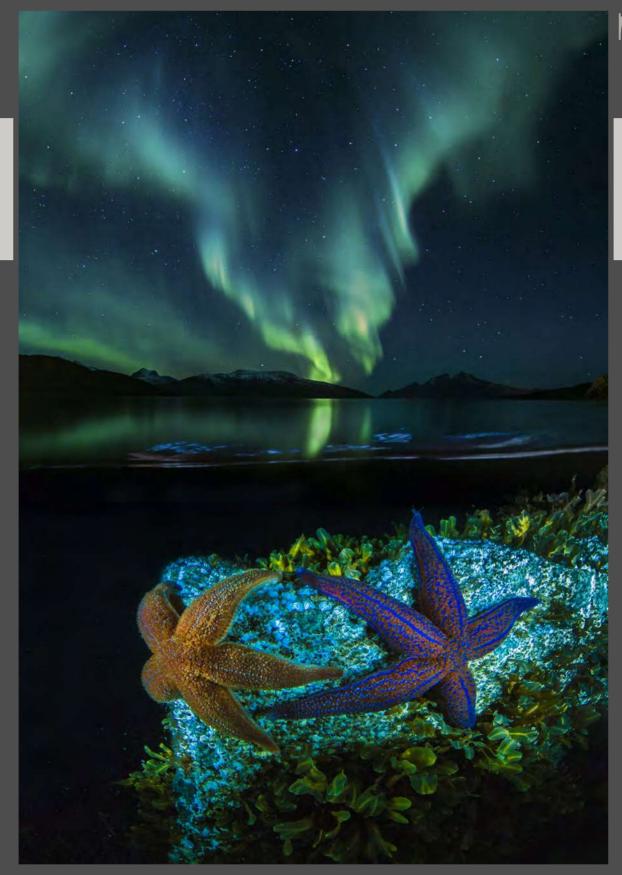


Vihang Jungle Safaris
Yuwaraj Gurjar ygurjar@gmail.com
Makarand Joshi +91 9869304053
http://www.facebook.com/g
roups/128091287228796/
www.yuwarajgurjar.com



#### - Portfolio





www.arcticawards.ru

#### The Global Arctic Awards

 $\Lambda$  competition which strives to show the splendor of the Arctic, offering a stunning selection of images which successfully pay homage to a variety of landscapes and wildlife from the frozen wastelands of the extreme North

#### A Gallery of the Spectacular Winners of the Third Edition

"Conquering the cold heart of Arctic is a challenge, but there is nothing impossible for those truly in love with the North".

The Global Arctic Awards is an international photography competition that is already for the third year collecting the best Arctic and North images all over the world. In 2014 "Antarctic" section was also added to Global Arctic Awards.

Photographers from 30 countries have taken part in Global Arctic Awards 2014. The project was fulfilled with the support of the government of the Yamal-Nenets Autonomous region and the Russian Geographic Society.

The hard task was put to 7 international jury members (Sergey Anisimov, Sergey Lidov, Alessandra Meniconzi, Roy Mangersnes, Bryan Alexander, Sergey Gorshkov, Bo Cederwall). But the choice has been done, the winners have been announced and can now be seen on the competition web site: http://arcticawards.ru/en/winners2014

The contest winners have been awarded the medals of international photography associations FIAP, PSA and UPI, as well as with prizes and gifts from Global Arctic Awards competition partners.

For the third year in a row Norwegian photographers have taken the "Arctic Photographer of the Year" title. This year it has gone to Audun Rikardsen.

During last two years the Global Arctic Awards project was presented in 15 different cities with 15 exhibitions all over Russia and Europe.

The Global Arctic Awards organizers contest express their sincere gratitude to the partners and sponsors, whose support has played a very important role.

Contact information:
http://arcticawards.ru
Facebook:
http://www.facebook.com/globalarcticawards
Contact person: Aleksey Anisimov
globalarcticawards@mail.ru



Polar Bear Hug (Daisy Gilardini -Canada)

Previous page: **Stars Of Two Worlds**(Audun Rikardsen -*Norway*)

#### - Portfolio

Diving Walrus
(Franco Banfi - Switzerland)







Magma On The Move (Orvar Porgeisson - Iceland)

> Run (Ivan Kislov - Russia) =



Fight of Arctic Foxes
(David Allemand - France)





Snowy
Arctic Fox
(Yves Adams Belgium)

#### - Portfolio



Feeding
Walrus
(Audun Rikardsen
- Norway)

#### - Portfolio



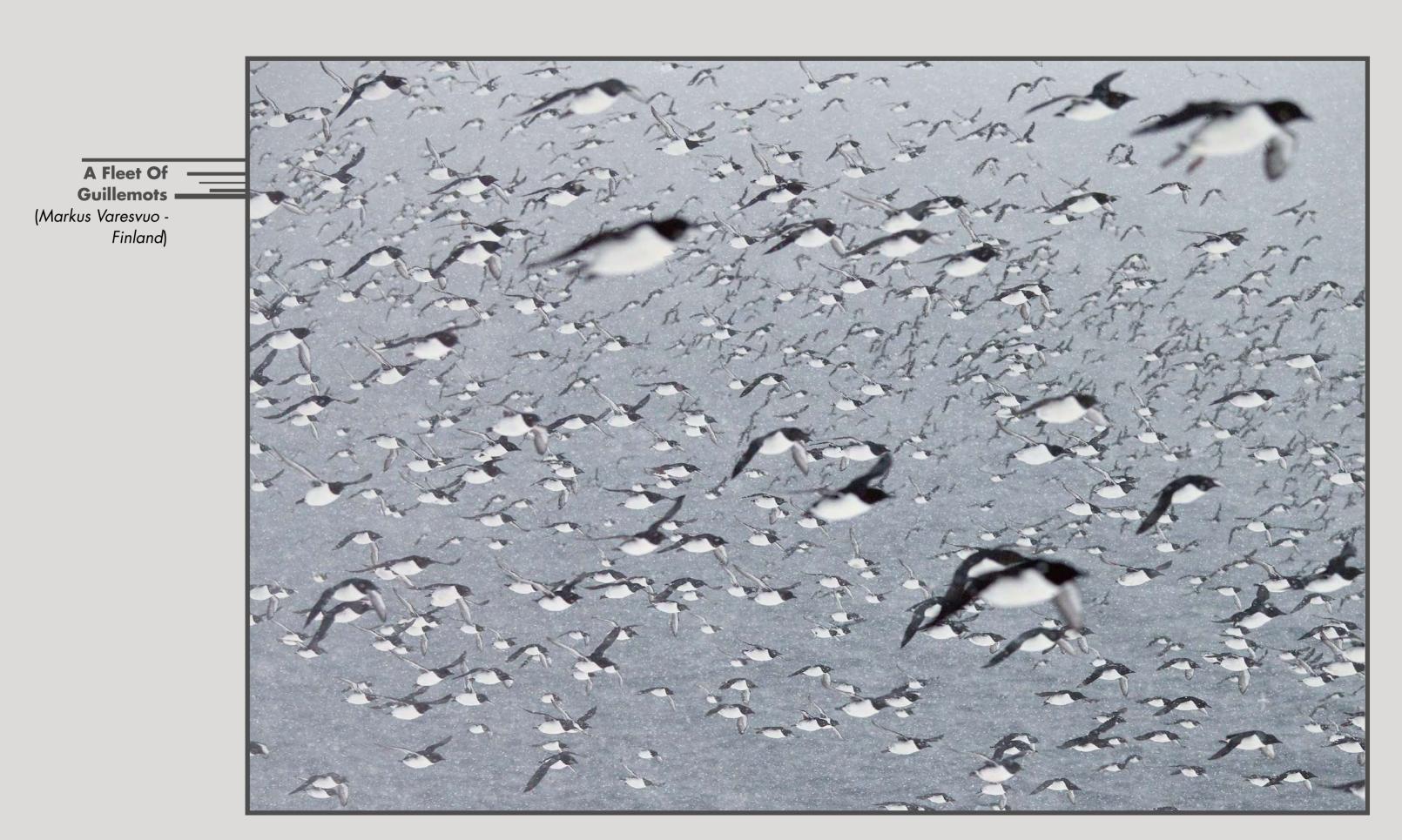
White Wings
Snowy Owl
(Marco Mattiussi Italy)



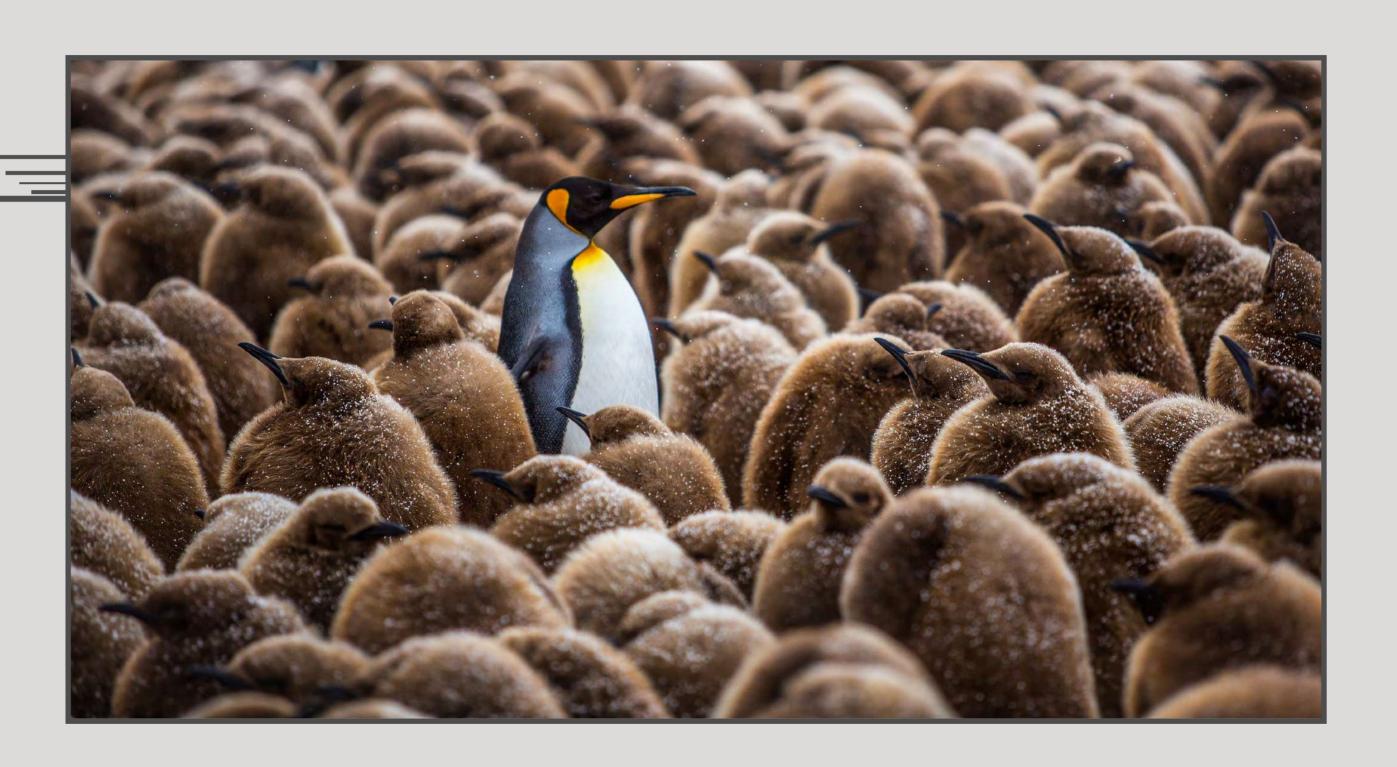


White Out
Arctic Fox
(Yves Adams Belgium)

- Portfolio



Kindergarten
Teacher =
(Dmitriy Moiseenko Russia)









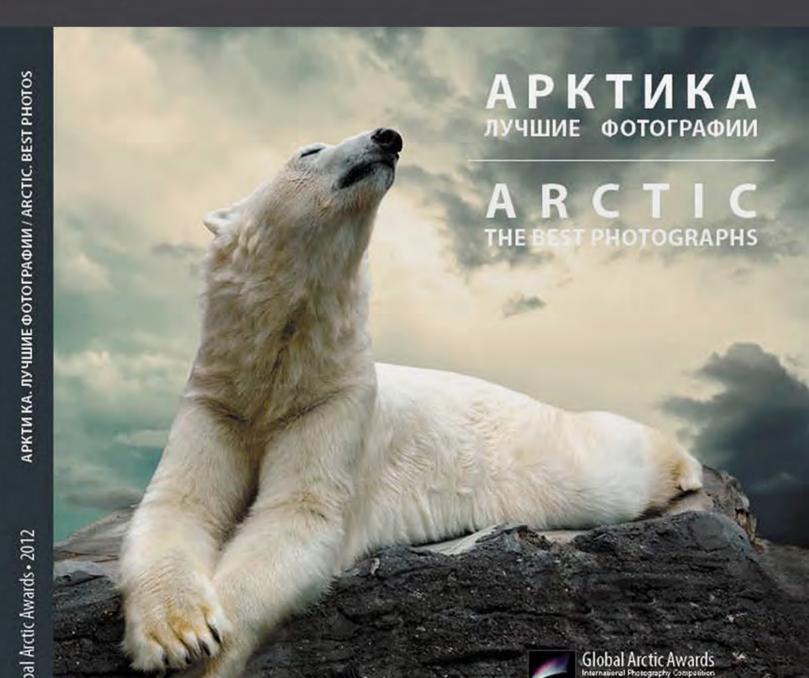












# Become the Best Arctic Photographer

Details on our web-site www.arcticawards.ru

Global Arctic Awards International Photography
Competition
of the North and Arctic pictures



TANALAHORIZON, your tour operator for the "extraordinary".

Since 1995 we stand for top-class adventure travels, sustainable photo tours, nature travels and other tours on the fourth-largest island of the world "MADAGASCAR."

Madagascar, an island in the Indian Ocean is still a great unknown in our widely travelled world. The island has much to offer and is the Mecca of ecotourism for animal and nature lovers. As a Madagascar Tour Operator, we are specialized in traveling through the fourth largest island in the world. We give great importance to sustainable tourism, as well as traveling and photographing in harmony with nature and the environment. We also appreciate the cooperation of and contact with the locals, who in part help to give you a pleasant and sustainable holiday in Madagascar.







www.tanalahorizon.com

## Mild About Sabah...

#### NORTH BORNEO SALFALIA MALAY 5 I A









NORTH BORNEO SAFARI SDN. BHD

Co. No. 609750-A / KPL/LN 4890

Phone/ Fax: + 60 89 237525 Email: inquiry@northborneosafari.com

www.northborneosafari.com

#### Fieldwork





Herpetologists Jen Stabile and Rafael L. Joglar report on the conservation status of a highly threatened amphibian from Puerto Rico





An aerial view of Mona Island, situated in n the heart of the Caribbean, 66 km west of Puerto Rico and 61 km east of the Dominican Republic.



A data logger being placed in situ on a palm tree trunk.

#### TEXT AND PHOTOS BY JENNIFER L. STABILE (SAN ANTONIO ZOO, TEXAS) AND RAFAEL L. JOGLAR (UNIVERSITY OF PUERTO RICO—RÍO PIEDRAS)

n the heart of the Caribbean, 66 km west of Puerto Rico and 61 km east of the Dominican Republic, lies a small jewel known as Mona. Mona, or Mona Island, is considered by some the Galapagos of the Caribbean. It is rich in both history and biodiversity and large iguanas Cyclura stejnegeri roam the island that was once the main destination of pirates and privateers.

The Mona Passage, the waters surrounding the island, connects the Atlantic Ocean with the Caribbean Sea. This 129 km stretch of sea is one of the most dangerous passages in the Caribbean, due to deep water and variable tide currents.

This is our second trip to Mona Island together, and marks ten years of a dedicated partnership to the conservation of the coqui frogs of Puerto Rico. The coqui frogs, (belonging to the genus Eleutherodactylus), are iconic to the Puerto Rican community, and can be found in both the forests and folklore throughout the Puerto Rican islands. Their call is what gives the island its true enchantment (Isla de Encanto), but unfortunately most of the 17 species of coqui are in declining, with three species already extinct. The purpose of our research endeavor was to investigate the biology of the Mona Island

Tree Frog, or Mona Coqui, Eleutherodactylus monensis in its natural environment. We also collected 20 specimens (10 breeding pairs) of Mona Coqui to further our captive research efforts. The specific aims of this combined program are to study distribution, population densities, potential causes for decline, reproductive biology, diet, and vocalization. The results of this project will contribute to the documentation of the species status and provide several management and conservation recommendations.

Our boat, El Torpedo, left Puerto Real, Cabo Rojo (southwestern Puerto Rico) at 3:00 AM; transporting equipment and our small research group. The boat ride can last anywhere from three to nine hours. It is important to leave for the island at night to avoid the rough late morning and afternoon waters of the Mona Passage. Mona Island belongs to Puerto Rico, and is managed by the Department of Natural and Environmental Resources (DNER) which issues a small number of permits to visit and work on the island. Since it is a natural reserve it does not have permanent residents, only park rangers and biologists are responsible for guiding visitors or participating in research projects. Because of its remoteness, Mona is the most





A pair of the highly endangered Mona Island Tree Frog, or Mona Coqui, Eleutherodactylus monensis caught in amplexus.





An immature specimen of the Mona Island Tree Frog, or Mona Coqui, Eleutherodactylus monensis. Dorsal coloration differs from that of the adults.



The egg mass tyipically laid by the Mona Island Tree Frog, or Mona Coqui, *Eleutherodactylus monensis*.

isolated island in the archipelago of Puerto Rico and it is biogeographically unique. As the sun began to rise, Mona slowly came into view in a pure expression of the Caribbean experience. From our small boat we can see the formation of large limestone cliffs and white sand beaches with swaying palm trees teaming with wildlife. You half expect a Pterodactyl to swoop down from the jagged cliff edge and into its coral filled, crystal waters. As we approached closer, deep caves began to take shape in the sea cliffs of this 11 x 7 km kidney-shaped island.

Ecologically it is a subtropical dry forest, rich in biodiversity and endemism; similar to what you find in southwestern Puerto Rico, Fajardo, Ceiba, Caja de Muerto, and the islands of Desecheo, Culebra and parts of Vieques. Most terrestrial reptiles and the only amphibian on the island are endemics and their common names have "de Mona" attached indicating that they are exclusive to this island: Coquí de Mona Eleutherodactylus monensis; Salamanquita de Monito Sphaerodactylus micropithecus; Salamanquita de Mona Sphaerodactylus monensis; Siguana de Mona Ameiva alboguttata; Lagartijo de Mona Anolis monensis; Víbora de Mona Typhlops monensis; Culebra Corredora de Mona Borikenophis [Alsophis] variegatus; Iguana de Mona Cyclura stejnegeri; Culebrón de Mona Epicrates monensis monensis; Lucía o Santa Lucía de Mona Spondylurus monae; and Lucía or Santa Lucía de Monito Spondylurus monitae. The non-endemic reptiles are: Salamanca Hemidactylus haitianus, of African origin; and the marine turtles Carey Eretmochelys imbricata, Tinglado or Tinglar Dermochelys coriacea, Peje Blanco Chelonia mydas, Cabezón or Caguana Caretta caretta and the extinct Tortuga Terrestre de Mona Geochelone (Monachelys) monensis. Overall there are 16 species of amphibians and reptiles and 92 % (11/12) of the terrestrial extant species are endemic.

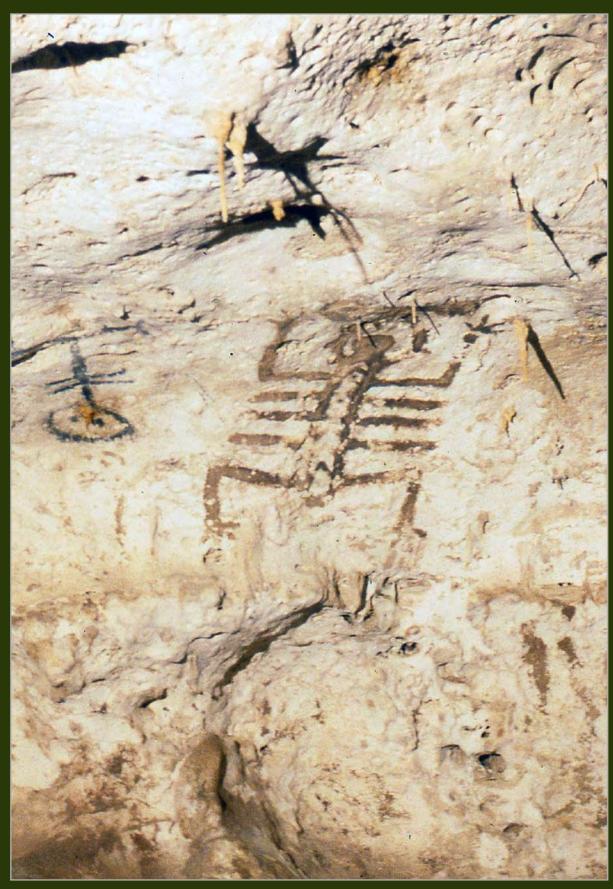
This trip to Mona is different than the last. This time the island is very dry, thanks to El Nino and to the extreme drought most of Puerto Rico has been experiencing. Many of the bromeliads that once held Mona Island Coqui are dead due to the lack of rainfall and humidity. Our work here this time was primarily in the islands caves. As we entered them we encountered historical documents, such as pictographs of Taino or pre-Taino origin. Records of pre-Taino culture, potentially the Casmiroids, inhabiting the Mona Passage date back to 1000 BC. The Taino, descendants of the indigenous South American and Caribbean Arawak, settled on Mona during the pre-Columbian times. They gave the island its original name after a Taino Cacique, or chief, Amona.

We proceeded to monitor transects previously established by our research team, taking data on temperature, moisture and vocalization patterns. We heard sounds of both dripping water and low repetitive chirps. These sounds are produced by the only amphibian found on the island, the Mona Coqui. This one just like the other 17 species of Puerto Rican frogs of the genus *Eleutherodactylus* is characterized by direct development,





Mona Island belongs to Puerto Rico, and is managed by the Department of Natural and Environmental Resources (DNER) which issues a small number of permits to visit and work on the island. Since it is a natural reserve it does not have permanent residents, only park rangers and biologists are responsible for guiding visitors or research projects.



Detail of one of the petroglyphs which can be found on Mona Island.

which means that they metamorphose directly into miniature coquis without going through a tadpole stage. On Mona, these frogs lay their eggs on vegetation, under rocks or under fallen leaves. The Mona Cogui is endemic to Mona Island and little is known of its current population status. The IUCN consider it a vulnerable species because its range is restricted and the effects of introduced predators on the island. In addition to its small range of only 57 km2 our research group is also concerned with chytridiomycosis (Bd) already present on Mona, alteration of habitat and climate change. To assist with data collection when we are not present on the island, we have set up an automated recorder to monitor call patterns. This recorder has a battery life of roughly 20 days, and can take up to 10,000 one minute recordings throughout the designated time slot.

Although the island was extremely dry, we were still able to collect 10 pairs of Mona Coqui and they have been transported safely back to the San Antonio Zoo. Our primary objectives for obtaining this captive colony are to establish captive populations to ensure survival in case of a catastrophic event in its natural environment, learn about its reproductive biology, and increase public awareness about the global amphibian crisis. Having worked with a small population in captivity already, we know that the Mona Coqui is unique in its reproductive behaviors as compared to other Puerto Rican coqui species. The male and female both assist in digging out the nest concavity used for oviposition. During the building of the nest, the male appears to cease calling and advertising for another

mate. This reproductive act witnessed by the male and female is uncommon and requires more research to fully understand this unique characteristic. Other immediate research goals include developing karyotype for the Mona Coqui. Vocalization and call patterns are also currently being recorded and processed, which will allow for an accurate account of this species level of activity and density as well as reproductive behaviors. Biological and historical documentation of the Mona Coqui will assist in the further implementation of conservation efforts for this unique amphibian species.

It is said that a trip to Mona Island will change your life. Time stands still on Mona, it is an island that lives in the past. Traces of history waiting to be explored are scattered throughout the isolated landscape. Christopher Columbus is thought to have "discovered" Mona Island in 1493, but the island was home to pre-Hispanic inhabitants, Taino and maybe pre-Taino. The Taino culture came to an end on Mona Island in 1578, 85 years after being discovered. During the late 1500's and for the three centuries following, the island was abandoned to pirates. If you venture into some of the caves on Mona you will find evidence of the original discoverers of the island. The Taino pictographs in Cueva de Espinar and Cueva Negra depict bats, other mammals (perhaps monkeys), birds, lizards and frogs. A testimony that we may have had something in common with Mona Island's first inhabitants: a shared interest in the islands wondrous biodiversity.



The large and herbivorous Iguana de Mona *Cyclura stejnegeri* is a typical endemic.



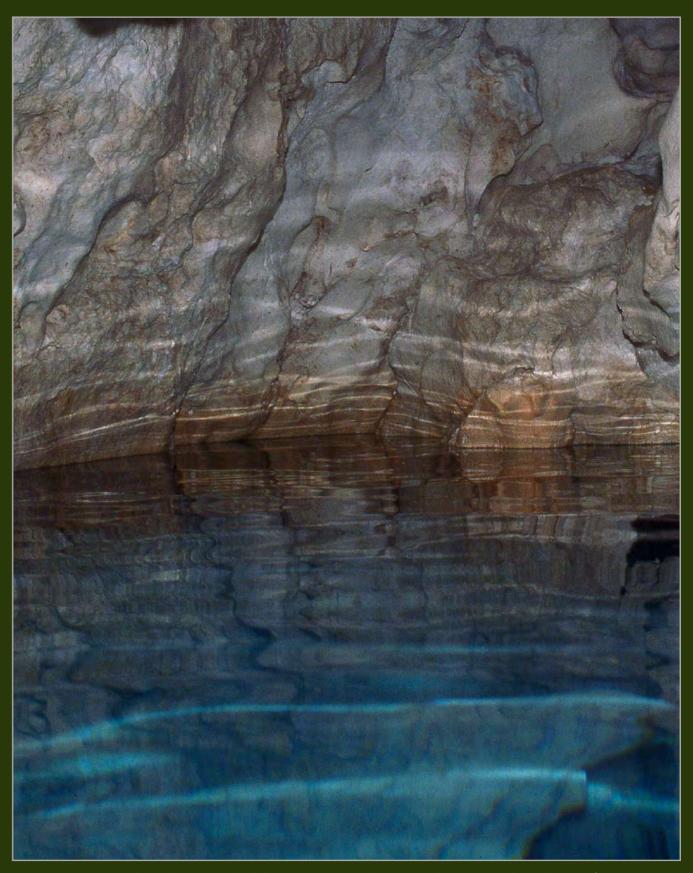
The island's dry coastal environment also hosts large numbers of crabs.

Culebrón (or Boa) de Mona Epicrates monensis monensis, an endemic species .





A beautiful specimen of the endemic Salamanquita de Mona Sphaerodactylus monensis.



The dry, eroded limestone rocky coastline is rich in karst formations.

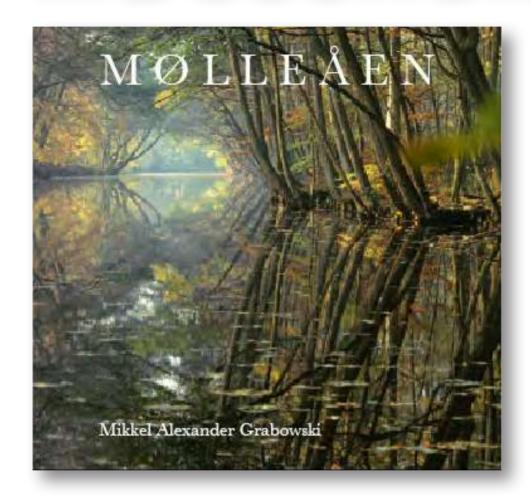


The typically wind- and water-eroded limestone cliffs of Mona face the azure Caribbean sea and offer a multitude of habitat niches in their karst crevices and caves.

## A magical journey through Denmarks Mill Brook Dale...

## MØLLEÅEN

- a protected wetland habitat of river, big lakes, deep forests and extensive swamps supporting an amazing variety of flora and fauna - just 10 km from the country's capital Copenhagen!





Fine art photography Coffee table book!!

ALL IMAGES SHOT ON FILM!

- Hard back 180 pages
  - 170g silk coated paper
  - Detailed maps with old local names
  - Text in both Danish and English
  - Flora and fauna in Latin names
  - · High quality offset printing
  - Signed by the artist









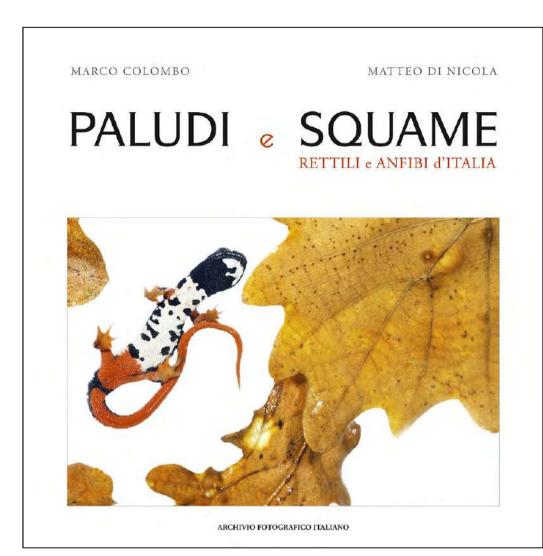
Photographed by

Mikkel Alexander Grabowski









### NEW HERP BOOK PALUDI E SQUAME: rettili e anfibi d'Italia

Published by the Italian Photographic Archive, this book comes from a great love for Italian herps, from the wish of making them known to the public in all their beauty and fascination, and last but not least their need of protection. This is the first strictly photographic book about Italian frogs, toads, newts, salamanders, turtles, lizards and snakes in their natural environments, through shots obtained over many years by the authors. This work has been published with the sponsorship of Rile-Tenore-Olona Local Park (Lombardy) and the patronage of Societas Herpetologica Italica (SHI).

The book is in Italian but don't be afraid, there are much more photographs than texts!

Authors: M.Colombo & M. Di Nicola

Product details: 28x28 cm, hardcover, 112 pages

**Publisher: Punto Marte** 

Price: 25 euro (shipping costs excluded)

You can watch a preview and order it at: http://paludiesquame.wix.com/paludiesquame

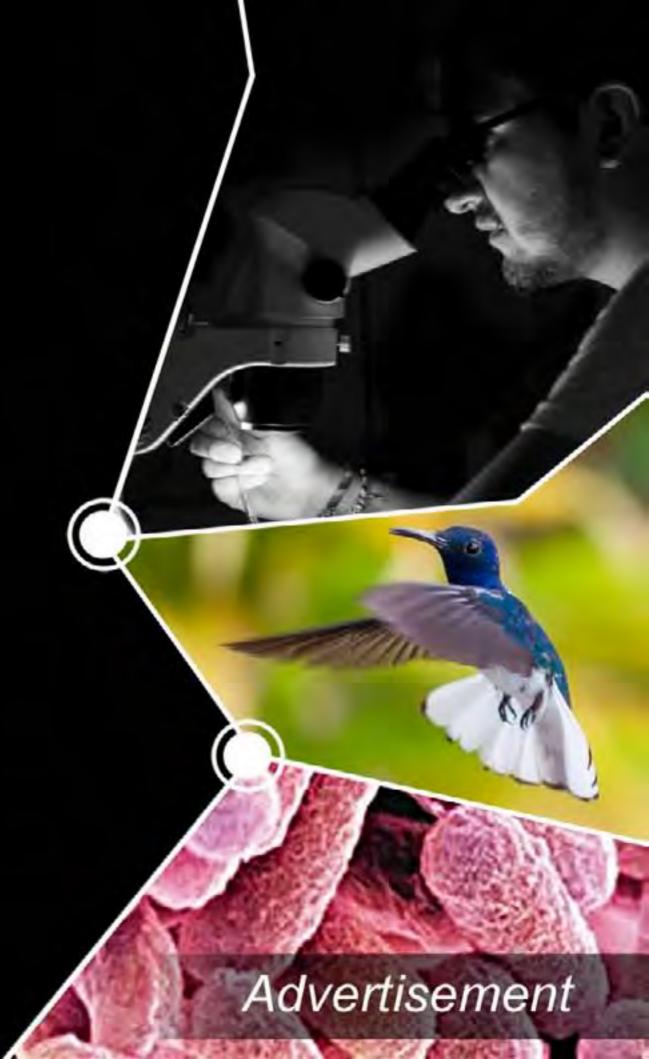
#### **ADVERTISEMENT**

www.quintopilar.com



Science, technology and society





## Trip Report



Should we accept the controversial idea of baiting large marine animals to be able to watch and photograph them? Probably yes - if it can promote their conservation





Tiger Shark Galeocerdo cuvier
The Tiger shark Galeocerdo cuvier (also featured on the opening spread) is the largest predatory fish in tropical seas. This impressive species gets its common name from the dark, vertical stripes found mainly on juveniles, which - as the animal matures - start to fade and almost disappear completely later on.



Tiger Shark Galeocerdo cuvier Large specimens of this species can grow to as much as 20 to 25 feet (6 to 7.5 meters) in length and weigh more than 1,900 pounds (900 kilograms).

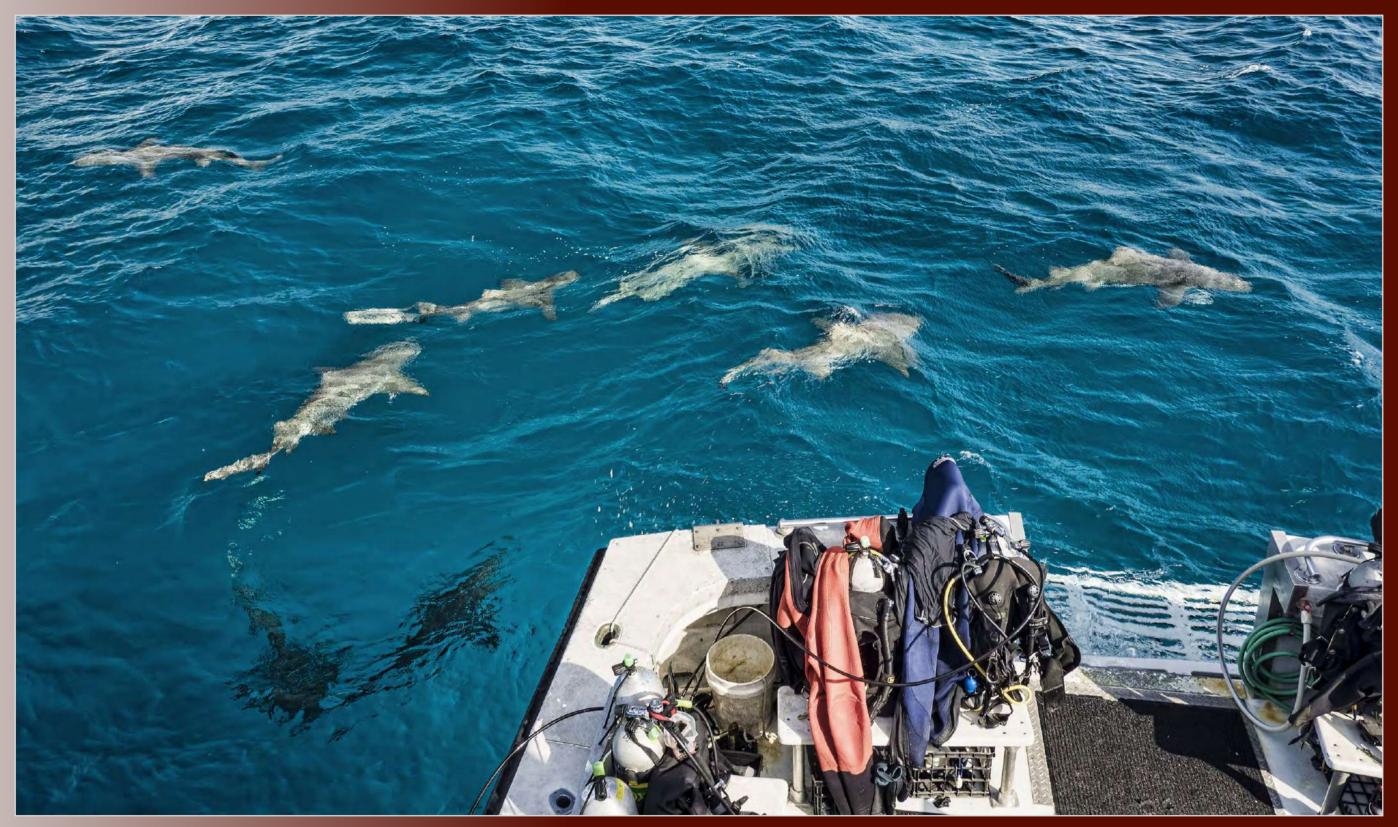
#### TEXT AND PHOTOS BY DON SILCOCK

ew creatures can provoke the almost instant primeval fear within us the way that sharks do. Perhaps it's because they inhabit an environment that is threedimensional and largely alien to us and one they seem to be the complete master of. Or possibly because when they do eat, they consume their prey with such apparent feral intensity that we automatically associate their name with personal danger. Maybe it's both and there is little doubt that the mass-media has had a significant role in propagating this extremely negative perception of sharks, leveraging as they have the fear and loathing that emanated from Peter Benchley's seminal movie Jaws into cheap but effective headline news whenever an attack does happen. But the sad reality is that the twin scourges of longlining and gill-netting have decimated the global shark population so much that in statistical terms deaths from shark attacks are somewhere between badminton and lawn bowling fatalities. Or as someone famously once said (quoting health department records...) sharks bite fewer people each year than New Yorkers do! The rise of the rich and the super-rich in China, plus the country's burgeoning middle class, has created an almost insatiable desire for shark fins - the signature ingredient for the soup of the same name - the consumption of which is an excellent way of signaling that you have arrived and are an integral part of the new

economy in that most populous of countries. Gone are the days when the Short-Fin Mako Shark was a relatively common sight in the Mediterranean, or Silky Sharks were abundant in the Gulf of Mexico - the sharkfinners having decimated those populations by 70% and 86% respectively. It's a similar story in the north-west Atlantic Ocean, where the Hammerhead Shark population has plummeted 89%, and the Central Pacific where there has been a 90% decline of the Oceanic White Tip. The numbers involved are simply absurd, with an estimated 200,000 sharks being caught each day, or put another way about 73 million sharks are removed from our oceans every year. The results of that slaughter are equally incredible with 75% of oceanic sharks and rays and 30% of all sharks and rays threatened, or near-threatened, with extinction! All driven by the incredible demand for a soup that has to be flavored artificially because it's principal ingredient adds little more than a specific texture to the broth...But so-what... does it really matter if these shark populations are being decimated? Ask the average guy in the street and the answer would probably be a resounding no - because in the mind of the general public the only good shark is a dead one!

But what is the role of the shark in the sea and just how dangerous are they to man? Hard to say when so many have been





Jumping into the Shark Ring
This is the sight meeting divers and underwater photographers once the boat gets at destination. A number of sharks - accustomed to divers and especially to being fed - circle on the surface in expectation. Despite what most people would think, accidents on such occasions have been rare - although they do have indeed taken place.





Tiger Shark Galeocerdo cuvier

The perfect predator/scavenger, with superb senses of sight and smell and an almost limitless menu of diet items with the stomach contents of captured sharks revealing stingrays, sea snakes, seals, birds, squids, and even license plates and old tires. Tiger sharks are to be found in tropical and sub-tropical waters throughout the world.



Caribbean reef shark Carcharhinus perezi
This elegant, stocky species is found on the east coast of the USA, ranging southwards down to the Caribbean and as far as Brazil.

butchered that it is now really quite rare to see sharks in large numbers and so, to form any kind of opinion, you have to travel to where they are protected as they simply don't come to you anymore. Thankfully there are countries that have realized that sharks are extremely important to their seas and fish stocks, plus the growth of shark tourism means that live ones are immensely more valuable than the dead and de-finned variety! One of the first such countries was the Bahamas - an island nation in the Caribbean, not far from Florida on the east coast of the United States, which is famed for its picturesque beauty and crystal clear waters. The Bahamas was never really at the absolute bleeding edge of the conservation movement having suffered from over-exploitation of its fish stocks over the years and in places over-development of tourist resorts in ecologically sensitive areas. But there is no major industry in the country and its people generally have a deep and visceral understanding of the importance the health of their surrounding waters is to their long-term prosperity.

Therefore the establishment of the Bahamas National Trust in 1959 to manage the first marine protected area in the world – the 112,640 acre Exuma Cays Land & Sea Park - can now be viewed as an incredible piece of foresight! The Bahamas have since added another 26 national parks covering

over 1 million acres of land and sea. together with enacting substantial supporting environmental legislation, including in 1986 making Exuma Cays a no-take marine reserve. Then in 2011 the government went one step further and became the 4th country in the world to establish a shark sanctuary by formally protected all sharks in Bahamian waters. Tacit recognition of the significance of sharks to the overall health of its fisheries and the cold hard fact that a live shark is worth a lot more in tourist dollars than a dead one - with "shark interactivity" said to worth an estimated \$50m a year to the country's economy...So in January 2015 I embarked on the epic three-day journey from my home in Bali to experience what are now said to be some of the richest waters on the planet.

The Bahamas have long been on my personal "to-do" list as I had heard great stories about the vibrancy of its shark population and the principal objective of my trip was to check out the veracity of those stories. But if the truth is told, I guess in reality I was mentally ticking off the Bahamas from my personal "bucket list" of places I must dive before I die...I certainly was not expecting to have an epiphany while there, but I have to say that as someone with a deep (no pun intended...)





Caribbean reef shark Carcharhinus perezi
This could be defined as a truly "typical" shark species because of its distinctive robust and streamlined shape, coloration, large eyes and short but rounded snout.



Caribbean reef shark Carcharhinus perezi Caribbean reef sharks grow up to 3m long and can weigh up to 70kg.

interest in the marine environment being amongst so many healthy sharks for the first time had a quite profound impact on me. Basically for the first time in over 30 years of diving it finally dawned on me just how and why sharks are so important to the world's oceans and therefore to us - the people who collectively extract so much from those waters! Let me explain...

The marine environment is a complex and multi-faceted thing, but if there is one global truism it is that everything has its place in the greater scheme of things and 400 million years of evolution have produced what could be referred to as a "fine balance". Sharks are a very necessary part of that fine balance and can be thought of as the masters of their ecosystems, whether that be a reef or open ocean. Their role at the top of the marine food chain means that they clean up the oceans with ruthless efficiency - ironically, the very thing about them which scares us so much. Without sharks the dead, the dying, the diseased and the dumb of the oceans can pollute and degrade the health of those ecosystems and the genetic quality of its inhabitants. The many species of sharks are there for a reason and they have evolved superbly, in true Darwinian fashion, to execute their mission. Remove the sharks and disruption occurs, something marine scientists refer to

rather prosaically as "trophic cascades" – think of the shark as the first in a long line of finely balanced dominos and if it is tipped over the rest start to go down as well.

The impact of shark finning in the Caribbean illustrates the impact of such cascades extremely well, for when the shark population declined it removed one of the natural limitations on the number of groupers in those waters. Groupers have voracious appetites and also breed rapidly, but a healthy shark population would keep overall numbers in check and maintain that fine balance. But as the number of sharks declined it allowed the number of groupers to increase, who subsequently consumed a disproportionate number of reef fish, which meant that the naturally occurring algae was no longer being consumed and so the reefs started to die.

There is no quick fix for these events because sharks grow slowly, mate intermittently, have long gestation periods and do not mass produce their young. Sharks therefore are basically an incredibly important part of our marine ecosystems and removing them en-masse, like the long-liners have done, results in immense disruption to our oceans.

The ultimate impact of all this is still far from understood, but the worst case scenarios are indicating a total global collapse of fisheries stock by 2048.





Tiger Shark Galeocerdo cuvier

The broad, blunt nose and the significant girth of this impressive species give it a commanding presence. Moreover, Tiger sharks have a reputation as man-eaters and are said to be second only to the Great White Carcharodon carcharias in attacking people, although this could be said of the Bull Shark Carcharhinus leucas too.



Caribbean reef shark Carcharhinus perezi

Although considered dangerous to humans, Caribbean reef sharks do not really have a history of unprovoked attacks on humans and are generally passive towards divers, snorkelers and swimmers. They can however become aggressive in the presence of food.

To begin to really understand the relationship between sharks and man in the sea you need to witness them in their natural environment and that was the incredible impact my trip to the Bahamas had on me. For the first time I was able to see a large number of different sharks all congregated in one location with a single common interest – the source of the aroma from the bait-boxes...The boxes used are plastic milk-crates packed with fileted fish carcasses and then "sealed" with a thick plastic top held in place with numerous cable ties. In the water the scent of the dead fish that percolates out from the bait boxes attracts any sharks in the area, but does not whip them into the frenzy that shark-feeding tends to do. They are positioned in the current so that the scent of the dead fish is carried downstream and the sharks swim in to the current up the "runway" to the baitbox. While it could be argued that the baitboxes create an artificial stimulus, my opinion is that it is probably the closest you can get to seeing how a healthy shark population would react when a large creature such as a whale or manatee dies. Over a period of 5 days we repeatedly entered the water where a large number of sharks were patrolling - Caribbean reef sharks, sand tigers, lemon sharks and on

Tiger Shark Galeocerdo cuvier



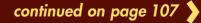


Tiger Shark Galeocerdo cuvier

several occasions the incredible tiger shark. Not once did I have cause to be really frightened... awed, inspired, wary and slightly intimidated for sure, but actually scared and concerned about my overall welfare – not once! It sounds almost trite and to a degree self-serving to say that you were surrounding by dozens of large sharks ranging in size from about 1.5m to, in the case of some of the larger tiger sharks, over 4m in length and were not scared. But it is true, and it's possible... because we humans are simply not a principal food-source for the sharks that were present. Those sharks are more like scavengers than predators and humans underwater are basically in the "too hard" basket because we are large, make a lot of noise and generally do not send the right signals to stimulate their highly evolved hunting instincts! This is particularly so in the Bahamas where that fine balance has largely been restored by the creation of the marine protected zones and the sharks have plenty of their "normal" food sources.

The best place in the Bahamas to experience sharks is Tiger Beach – which quite contrary to its name is nowhere near an island. First dived back in the early 1990's, when the area was known as Dry

Bank and had a strong reputation amongst big-game fishermen for shark action, it was christened Tiger Beach because the sandy bottom and shallow waters in the first shark photographs made it look like one... The Bahamas are said to take their name from Baja Mar - Spanish for "shallow seas" because the archipelago of 29 main islands and roughly 700 cays that form the country reside on top of two main limestone carbonate platforms called the Bahama Banks. The Great Bahama Bank covers the southern part of the archipelago and Little Bahama Bank covers the northern part, with incredible channels as deep as 4000m separating the two. Those channels are flushed with the clean rich waters of the Atlantic Ocean as the Gulf Stream makes its way through the Caribbean and then up the Florida coast. It is the combination of those rich waters and the shallow, sheltered cays and reefs of the Bahama Banks that make the area so prolific. Tiger Beach is located on the western edge of Little Bahama Bank, about 30km west of the town of West End on the north Bahamian island of Grand Bahama. The satellite tagging of tiger sharks in Bermuda since 2009 has revealed two really interesting facets of their behaviour - firstly they spend a lot of time at the surface, which is believed to be related to feeding and







Tiger Shark Galeocerdo cuvier
Tiger sharks have extremely low repopulation rates and long gestation periods, which make them highly susceptible to fishing pressure. Listed as near threatened throughout their range, they are being nevertheless slaughtered in large numbers everywhere for their fins, skin, meat and liver, which is rich in oil and vitamin A.

#### **SMILE! STAY CALM AND MEET YOUR CAMERA SUBJECTS**

Tiger shark Galeocerdo cuvier.





Tiger shark Galeocerdo cuvier.

#### TIGER SHARK

The Tiger shark *Galeocerdo cuvier* is the largest predatory fish in tropical seas and gets its name from the dark, vertical stripes found mainly on juveniles, which as they mature start to fade and almost disappear completely. Their large blunt-nose and significant girth gives them a commanding presence and they have a reputation as man-eaters and are said to be second only to great whites in attacking people. But because they have a near completely undiscerning palate, they are not likely to swim away after biting a human, as great whites frequently do. They are the complete scavenger, with superb senses of sight and smell and an almost limitless menu of diet items with the stomach contents of captured sharks revealing stingrays, sea snakes, seals, birds, squids, and even license plates and old tires. Tiger sharks are to be found in tropical and sub-tropical waters throughout the world. Large specimens can grow to as much as 20 to 25 feet (6 to 7.5 meters) in length and weigh more than 1,900 pounds (900 kilograms). They are hunted extensively for their fins, skin, and flesh plus their livers contain high levels of vitamin A, which is processed into vitamin oil. Tiger sharks have extremely low repopulation rates and long gestation periods which make them highly susceptible to fishing pressure and as a result they are listed as near threatened throughout their range.

#### Caribbean reef shark Carcharhinus perezi





Lemon shark Negaprion brevirostris.

#### CARIBBEAN REEF SHARK

The Caribbean reef shark *Carcharhinus perezi* (photo at left) is almost the shark "from central casting" because of its distinctive robust and streamlined shape, coloration, large eyes and short but rounded snout. Found on the east coast of the USA and southwards down as far as Brazil, Caribbean reef sharks grow up to 3m long and can weigh up to 70kg. Although considered dangerous to humans, they do not have a history of attacks on humans and are generally passive towards divers, snorkelers and swimmers. They can however become aggressive in the presence of food and if threatened, they will exhibit threatening behaviour by zigzagging while dipping the pectoral fins at intervals of 1-2 seconds. Adults begin to mate once they reach between 1.5 to 2m in length but the reproduction cycle is long because females only get pregnant every other year and the gestation period is another 12 months. Caribbean reef sharks are viviparous and the usual litter size is four to six pups which are about 0.5m long when born.

#### LEMON SHARK

The Lemon shark Negaprion brevirostris (photo at left) is one the best known and most researched sharks because they are able to handle captivity for extended periods of time, thereby providing scientists with extensive opportunity to observe their behaviour. Adult lemon shark often reach up to 3.5 meters in length and about 190 kilograms in weight, making it one the larger sharks. Named for its bright yellow or brown pigmentation and is found in tropical and subtropical waters in coastal areas of the Atlantic and Pacific Oceans, usually in moderately shallow water no deeper than 80 meters. Lemon sharks are a social species and are often seen in groups which have a structured hierarchy system based on size and sex, and are known for migrating from area to area, often over hundreds of kilometres to reach mating locations. They are viviparous and females give birth to 15 to 20 live pups after a gestation period of around 12 months. Lemon sharks rarely if ever demonstrate any aggressive behaviour to each other or towards humans and there has never been a recorded fatality from one of them attacking.





Caribbean reef shark Carcharhinus perezi
When facing a possible aggressor or trespasser in its own territory this species will exhibit threatening behaviour by zigzagging and arching its back while dipping the pectoral fins at intervals of 1-2 seconds, a behavior it has in common with several other "grey reef" sharks. These warning signs should never be ignored by divers.



Caribbean reef shark Carcharhinus perezi Caribbean reef sharks are viviparous, giving birth to live, autonomous progeny. The usual litter size is four to six pups, which are about 0.5m long when born.

hunting patterns. Secondly their migration patterns are very consistent, with 5-6 months of the northern spring and summer months spent in the open Atlantic Ocean to the north and west of Bermuda, followed by a migration south to the Bahamas where they spend the autumn and winter months. It is believed (but not yet proved) that the months in the open ocean are related to mating and feeding on the migratory loggerhead turtles that pass through at that time of year, while the time spent in the Bahamas is related to gestation as most of the tiger sharks observed at Tiger Beach are females and many of them are pregnant. Significantly the tagging also revealed that tigers, unlike the vast majority of sharks, are almost a "multi-mode" shark that behaves as an open-ocean pelagic during the warmer months and then like a reef shark in the colder ones.

Arriving for the first time at Tiger Beach is somewhat of a soul-searching experience because it's one thing to read and hear about the sharks that congregate there, but quite another to actually be there preparing for that first dive when there are up to a dozen 2-3m sharks circling the back of the boat and lots of others visible in the clear waters! The briefings provided on my trip were both extensive and exemplary, with everything clearly explained in a logical and non-sensational way from how to prepare to

go in the water, how to enter and what to do underwater plus we were closely watched and monitored throughout. But the fact of the matter is that waiting for a gap in the patrolling sharks and then carefully rolling in amongst them is not something you do on a daily basis...It was a little bit like that time I went sky-diving when my brain struggled to deal with why I was jumping out of a perfectly functional plane! Once underwater however, nerves settle and an awareness starts to form for the sharks and their behavior patterns – from the pushy way the Caribbean reef sharks approach and tend to work in a bit of a pack, to the sneaky way the large lemon sharks approach low to the bottom with a leery look straight out of one of those horror movies. But that new awareness fades to grey when the first tiger shark arrives. Tigers are large formidable creatures with a commanding presence that indicates they know their place at the top of the food chain. They move slowly and carefully, checking out what is going on and the other sharks clearly defer to them. The protocol at Tiger Beach is not to worry about the lemons and reef sharks, as the only real chance of being bitten is if you break the cardinal rule of getting too close to the bait box and even then a bite is unlikely to be lifethreatening, but you should always know where the tigers are and you should always face them - literally keeping the eye of the

continued on page 109 🔪





Lemon shark Negaprion brevirostris

Adult lemon sharks often reach up to 3.5 meters in length and about 190 kilograms in weight, making this species one the larger sharks. Named for its bright yellow or brown pigmentation, it is found in tropical and subtropical waters in coastal areas of the Atlantic and Pacific Oceans, usually in moderately shallow water.



**Lemon shark** Negaprion brevirostris

Lemon sharks are a social species and are often seen in groups which have a structured hierarchy system based on size and sex, and are known for migrating from area to area, often over hundreds of kilometres, to reach mating locations.

tiger in view at all times! Tiger sharks are intelligent and curious animals that tend to approach divers because their sensory systems pick up the tiny electrical and audible signals emitted from our instrumentation and photographic equipment. They will tend to bump with their snouts as they investigate the stimuli further and there is always the chance that will use their mouth and, as their jaws are so powerful, even a gentle nip would be lifethreatening. So photographers are instructed to use their cameras as a shield, with the strict instruction to let go if a tiger decides to do a taste test. While everybody else is issued a long piece of 1" plastic pipe that should be held vertically Jedi-stick style to create a kind of psychological barrier. Yes, I know... plastic pipe for a tiger shark? But it works because all the tiger sees is a long vertical thing which is orientated in the wrong direction for its horizontal mouth and therefore turns away. Remember, it's not about hunger – they are simply curious. Tiger Beach is quite unique and something that should be on every divers bucket list. Where else can you get to experience such a variety of sharks and come eyeball to eyeball with one of the ocean's apex creatures? All in relatively shallow water with superb visibility! But if you go, do so with an open mind and prepare yourself to see those sharks in the role that nature intended for them, not the one the mass-media has conditioned us to look at them.

Don Silcock's images, articles and extensive location guides can be found on-line on his website www.indopacificimages.com

# PELAGIC EXPEDITIONS RHODE ISLAND

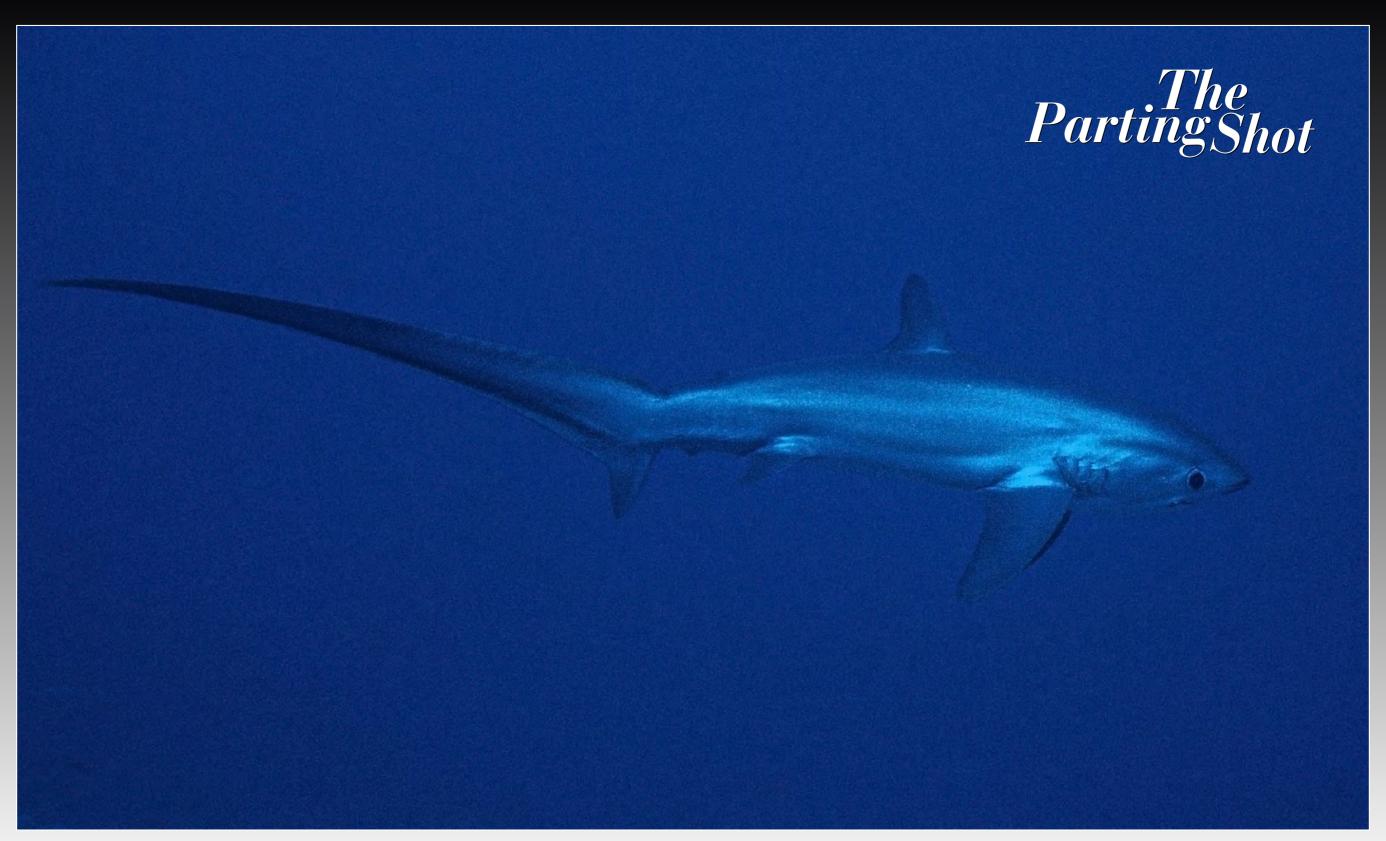


Specializing in Blue & Mako shark Encounters PelagicExpeditions@gmail.com

IMAGE: BILL FISHER - WWW.333PRODUCTIONS.COM







According to my own information and to that provided at the time by my friend Doug Perrine - underwater photographer extraordinaire and at that time owner of the specialized photo agency Innerspace Visions - I was the first ever, about 30 years ago, to photograph a free-swimming, live Oceanic or Big-eyed Thresher Shark Alopias pelagicus in the wild, while diving at the Layang-Layang atoll in the South China Sea. The resulting image - shot on one of the available 36 frames I had from my Fuji Velvia

50 ASA film roll in my Nikon F4 camera - is the one you see here: it was sold and published worldwide a number of times since then. Now a veritable avalanche of pictures qualitatively much better than this one are widely available, especially since a cleaning station consistently frequented by this striking species has been discovered several years ago in Moalboal, Philippines, and thanks to the amazing low-light capability shown by contemporary digital cameras. One today could easily shoot this in

ambient light at 2000+ ISO with no noise at all and with an almost unlimited number of shots available, while I just had to contend with my meager 36 slides and a sensitivity of 50 (more like 40, in fact) ISO. So please forgive the grainy film scan and the indifferent quality of the image - I share this old memory because I'm actually still very fond and proud of it despite its obvious technical faults. Besides, what an incredible thrill it was encountering this amazing shark for the first time!

## IN OMNIMA MUNDI'S NEXT ISSUE No.23, 3rd Quarter, July 2016

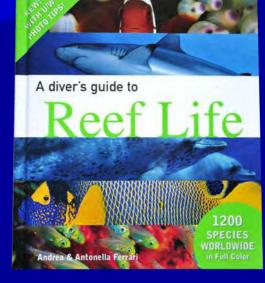


#### A Diver's Guide to Reef Life

1200 TROPICAL MARINE SPECIES WORLDWIDE in Full Color featuring 1300 spectacular color photos with full details on distribution, habitat, size, life habits and underwater photography tips

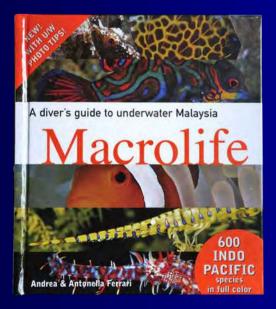
#### THIS IS WHAT THE DIVING COMMUNITY SAYS

JANE MORGAN, DIVE MAGAZINE: A stunning tropical marine life reference guide which is bursting at the seams with outstanding photographs. • WILLY VOLK, WETPIXEL.COM: No marine guide in the world will excite you with this much color, thrill you with this much variety, and fascinate you with this much information. This is an absolute must-have for any diver who has eyes and plans on using them while diving. • TIM ECOTT, author of Neutral Buoyancy: With 1200 tropical species, ranging from coral polyps, gorgonians, sea squirts, sponges, nudibranchs and all of the main fish groups, this is a truly comprehensive work, and probably the only reef guide most divers will need to take with them on a trip. The Ferraris also produced A Diver's Guide to Underwater Malaysia Macrolife, in my opinion the best of its kind. Now they have created an indispensable companion volume



that will serve every diver well. • BOB GOEMANS, SALTCORNER.COM: This work is truly a must for all that are interested in the underwater creatures that inhabit ourtropical waters. • CLAUDIA PELLARINI, SUBMERGE MAGAZINE: As essential as your passport on every dive trip from the Red Sea to the Caribbean and Indo Pacific.

## DIVE INTO DISCOVERY WITH NAUTILUS PUBLISHING



#### A Diver's Guide to Underwater Malaysia Macrolife

600 INDO-PACIFIC MACRO marine species featuring 800 SPECTACULAR COLOR PHOTOS with full details on distribution, habitat, size, life habits and underwater photography tips

#### THIS IS WHAT THE DIVING COMMUNITY SAYS

DIVERNET: Not only does it help identify the critters, but it also gives useful tips on how to photograph them. • BACKSCATTER: Best work I've yet seen. For Mabul or Kunkungan, this book should be as necessary as a passport. • FAMA MAGAZINE: Well written, quite informative, beautifully illustrated... a priced right, quality publication. Get a copy, you'll be happy you did! • TAUCHEN MAGAZINE: 600 marine species illustrated with spectacular photos and a compact text for a very useful and much needed underwater guide. • ASIAN DIVER: Illustrated with more than 800

extraordinary colour photos, this is the field guide of choice for all serious macro divers. • NORTHERN CALIFORNIA UNDERWATER PHOTOGRAPHIC SOCIETY: The photography is impressive - if you need to identify any species from this area, this guide is a gem. • UNDERCURRENT: We just discovered the ultimate guide to Indo-Pacific macro life - this book is a must for traveling divers. BBC WILDLIFE MAGAZINE: Identifies and describes 600 small marine species from the Indo-Pacific. Clear, concise, informative... packed with more than 800 colour photos. • FOUR LAKES SCUBA CLUB: Both a macro and a fish field guide for all serious divers from the Maldives to Australia. A must! • DIVER MAGAZINE: Colour photographs of the highest quality make it easy to identify what you have seen...An essential tool for anyone.

## A Diver's Guide to the Art of Underwater Photography

Creative Techniques and Camera Systems for Digital and Film

A highly-readable, technically-accessible, step-by-step guide in eight chapters to the secrets and wonders of underwater photography - featuring dozens of stunning, inspiring images by several of the world's most brilliant authors

#### THIS IS WHAT THE DIVING COMMUNITY SAYS

ALEX MUSTARD, WETPIXEL.COM: This book gives us a rare insight into the mindset, dedication and imagination involved in creating magnificent underwater images. I sat down and read this enjoyable book from cover to cover. The lack of techno-talk makes it a very accessible method to improve your photography. The images are some of the finest you will see in a guide to underwater photography. All the images are very well reproduced, which will not come as a surprise to anyone who owns any of the other books by the authors. A large format 360 page feast of fabulous images and thought provoking and enjoyable writing on taking pictures in the ocean. • UNDERCURRENT: This book is filled with spectacular images, designed not only to offer great technical guidance, but also help the underwater photographer discover and develop the artist within. Clearly the best and most beautiful "how-to" book ever produced. • JOHN BANTIN, DIVER MAGAZINE: With an enviable reputation for authoring fine books on underwater photography, the Ferraris have laced the pages of their new book with juicy pictures.

There is none of the pseudo-art talk that often ruins otherwise beautiful books of photographs. I read it from cover to cover, and it's a great read. The pictures do the talking, and need no talking-up. This 360page volume doesn't have a weak page in it. • MIKE SEVERNS DIVING: This book is less about the technical aspects of the craft and more about the art and the "eye." This is a big, fat, beautiful, coffee-table-type book that includes 400 photographs illustrating techniques to achieve such effects as artistic lighting and framing. Inspirational as well as educational.

