





Adventures in Wildlife Photography

## HAPPY BIRTHDAY TO US:

Yes, we have good reason to celebrate - after one year's life and four full issues, our online quarterly magazine ANIMA MUNDI - Adventures in Wildlife Photography is still very much alive and kicking, which is no mean feat in these difficult times. And yes, again - we're still free for all, and will stay so in the future! Thanks to you all - it's your support and enthusiasm which keeps us standing, and it's just great seeing how constantly and rapidly the number of our readers (and contributors) worldwide keeps growing.

Readership is growing so fast, in fact, that we would like to take advantage of this occasion to repeat once more our magazine mantra - each issue of ANIMA MUNDI - Adventures in Wildlife Photography is literally and lovingly handmade, and its quality deserves to be comfortably enjoyed at leisure. The high-resolution pdfs should always be fully downloaded to one's desktop from our home page and then - and only then - should the issue be enjoyed! Several readers apparently limit themselves to opening the pdf via their browser, but we strongly discourage this method, as it can be frustratingly slow and make navigation to our active links virtually impossible. Remember - our motto is "Download, Enjoy and Share with All"!

So what's in our big one-candle cake you've just downloaded? Well, plenty of good stuff! We start on page 4 with an exclusive travel feature on Poland's Biebrza marshes - a remote and fascinating wilderness, an endless stretch of wetlands where European elk, beavers and wolves still roam - which we saw and photographed, for a change, when the landscape was aflame with the burning reds and yellows of a glorious autumn. Truly unforgettable! Then, starting from page 46, we serve you another destination, and this time we travel to exotic Brazil - thanks to our contributors, journalist Elsie Rotenberg and biologist Edelcio Muscat, it's beach and rainforest magic in the little-known and threatened environment of

Ubatuba's Mata Atlantica. Follow our Brazilian friends and discover dazzling hummingbirds, colorful birds and rare reptiles in one of the world's most unique and severely endangered habitats. But there's more obviously, as after exploring the wilds of North-eastern Europe and South America we couldn't leave Africa out - so flick to page 78 and be dazzled by our new contributor Piper MacKay's fantastic personal portfolio - a stunning, deeply moving collection of won-derful images shot (or should we say *created*?) by an enthusiastic North American woman photographer who fell in love with the wild beasts and the ancient cultures of Africa. And to top this issue's menu off - here's a great dessert on page 99 with our in-depth essay on the candy-colored, complex underwater universe of the soft corals community. Dive with us along some of the world's most colorful coral reefs and find out what makes them tick!

Still willing for more? Never worry, there's plenty more we're just saving for our upcoming issues in 2012 - we've just come back from an unbelievable four-week expedition to Ecuador (fullly detailed travel features on the Amazon and the Andes will be coming up soon), our friend David Hemmings is busy shooting in the Falklands as we are writing, there's a juicy feature on the pink dolphins of the Rio Negro in the making and we're preparing to leave for another four-week trip to a fantastic destination we're very familiar with - Borneo! And then of course we're cooking up a number of mouth-watering personal portfolios from several incredible nature photographers, and even a new regular feature which - with a bit of tongue-in-cheek - we have decided to call Beauty of the Beast. Curious to know more about it? Just wait for our next issue in April 2012 - 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 most welcome.

Please drop us a line at

nautilus@reefwonders net

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www.animamundimaa.com

Publishers
Andrea and Antonella
Ferrari
nautilus@reefwonders.net

Editor-in-Chief Andrea Ferrari andy@reefwonders.net

Layout Design & Art
Direction
Laura Genovese
Anna Bortolini

Videographer Antonella Ferrari anto@reefwonders.net

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

Distribution & Technical Support Peter Symes editor@xray-mag.com

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## TO TRAVEL IS TO LEARN.

When Giovanna Holbrook took on the challenge of leading two University of Florida science professors and a group of naturalists to the <u>Galápagos Islands</u> in 1971, she had no way of knowing the lasting impact that experience would have on her life and on the lives of those traveling with her. The group journeyed throughout the archipelago aboard a retired navy vessel, propelled by their spirit of adventure and thirst for knowledge. At that time, the Galápagos was just celebrating its twelfth year as a national park, conservation work at the <u>Charles Darwin Research Station</u> was still in its infancy, and tourism in the islands was virtually non-existent.

More than thirty years later, Holbrook Travel continues to serve the needs of teachers, students, academic institutions, and nature lovers. Although many changes have taken place over the years, Holbrook Travel has taken great care to remain true to its roots. As news of environmental concerns and world conflicts continue to fill the airwaves, it seems more important than ever to help people gain a better understanding and appreciation of the natural world and other cultures through firsthand experiences. In the words of Andrea Holbrook, president: "Our goal is to try to continue the great work my mother started."

EXPLORE HOLBROOK'S DIVERSE RANGE OF PROGRAMS ON OUR WEBSITE »



Selva Verde Lodge & Rainforest Reserve



Sarapiquí, Costa Rica



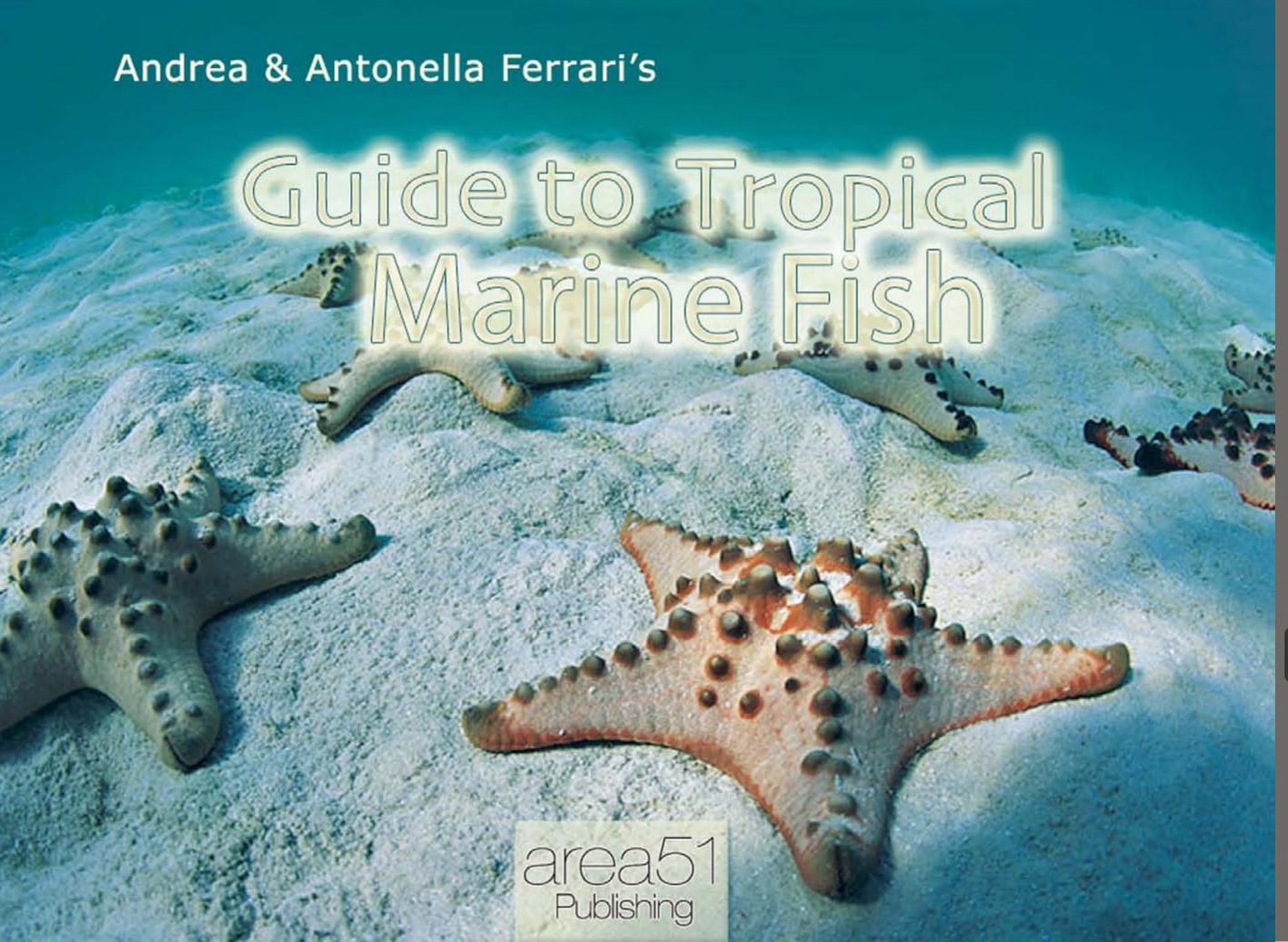
Somewhere in the middle of a 500-acre tropical rainforest reserve is a place where you can get away from the world and be surrounded by it at the same time. That place is <u>Selva Verde</u> <u>Lodge & Rainforest Reserve</u>.

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!









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## TEXT BY ANDREA FERRARI PHOTOS BY ANDREA & ANTONELLA FERRARI

mouthful of tender willow shoots and sucked down by the soft, squishy looking only mildly alarmed by our pre- ground. We had to leave the somewhat sence, the big male European Elk (in the firmer ground of the trail attempting to United States and Canada it would be sneak up a bit closer to the massive but called a bull moose) is watching us shy animal as it was sighted close to appreciatively, with that unmistakable some willow bushes, and moving about look of slightly bored derision all elks in the marsh – or at least trying to do so seem to have in their big soulful eyes. I gracefully and without too much noise can accept that - the huge animal is far from easy. Shifting my weight on seems able to move effortlessly, if rather the giving, mushy ground is no use – as heavily, among the tall sedge grasses the worrying sensation of being sucked and on the spongy, waterlogged peaty down deepens, I can see a huge "I toldsoil, while my rubber-booted feet feel you-so" satisfied grin on the Elk's face

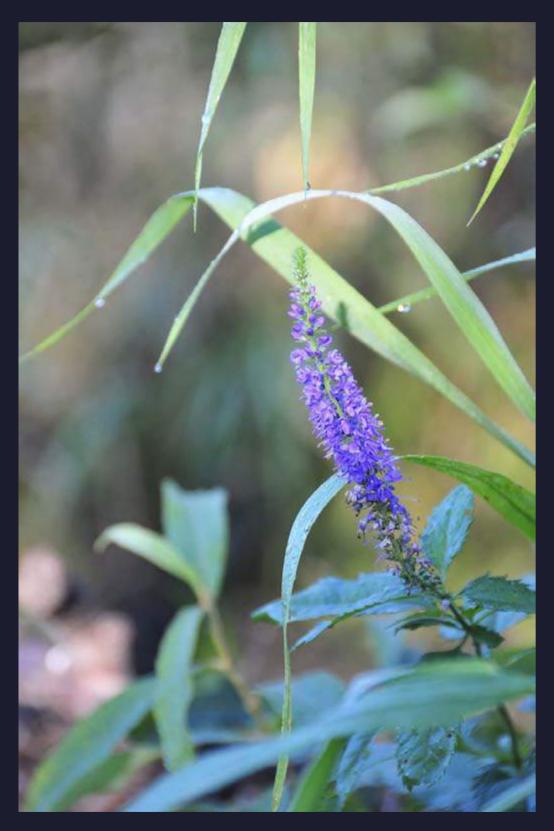
Unching reflectively on a like they're being slowly but surely

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A study in aerial grace and elegance - a flight of Eurasian (or Common) Cranes Grus grus gains altitude against the cool October sky of north-eastern Poland.







A few plants are still in flower as a male Roe deer
Capreolus capreolus emerges - like a legendary faun of
antiquity - from the tall grasses and bullrushes of the marsh.







The Eurasian
Lynx Lynx lynx is
one of the largest
predators of
European and
Siberian forests.
This stunningly
beautiful species is
however extremely
wary and almost
never sighted in
the wild.
Biebrza's acidic
soils are locally
dominated by
heathlands, where
Ericaceae such as
Calluna vulgaris
are often
abundant.

through my telephoto lens, and the uncomfortable feeling of being swallowed up alive and forever by a bottomless peat bog like some relic of the Pleistocene presents itself with utmost clarity. Of course having a big cumbersome backpack full of photo equipment on my back doesn't help, and when a stream of icy, crystal-clear bog water suddenly rushes down my calf soaking my foot I finally explode in a muttered curse. The big elk, predictably, looks at me once more, snorts the expected derisory comment, and canters away, disappearing among the tall grasses with an elastic, rubbery, slow-motion gait. But it's a draw – he got the last laugh, but I got my photo!

Walking for miles in sticky, deep mud or in ankle-deep, clear and ice-cold water on soft, spongy, treacherous vegetable mats which are in the process of being trasformed into peat is indeed part and parcel of the Biebrza Marshes experience – the well-kept wooden walkways, the occasional drier higher ground and the birch-topped, post-glacial sand dunes incongrously emerging now and then like small islands from the mesmerizing, endless sea of grass at Czerwone Bagno ("The Red Swamp") are somewhat unexpected and welcome luxuries after a long, wet slog.

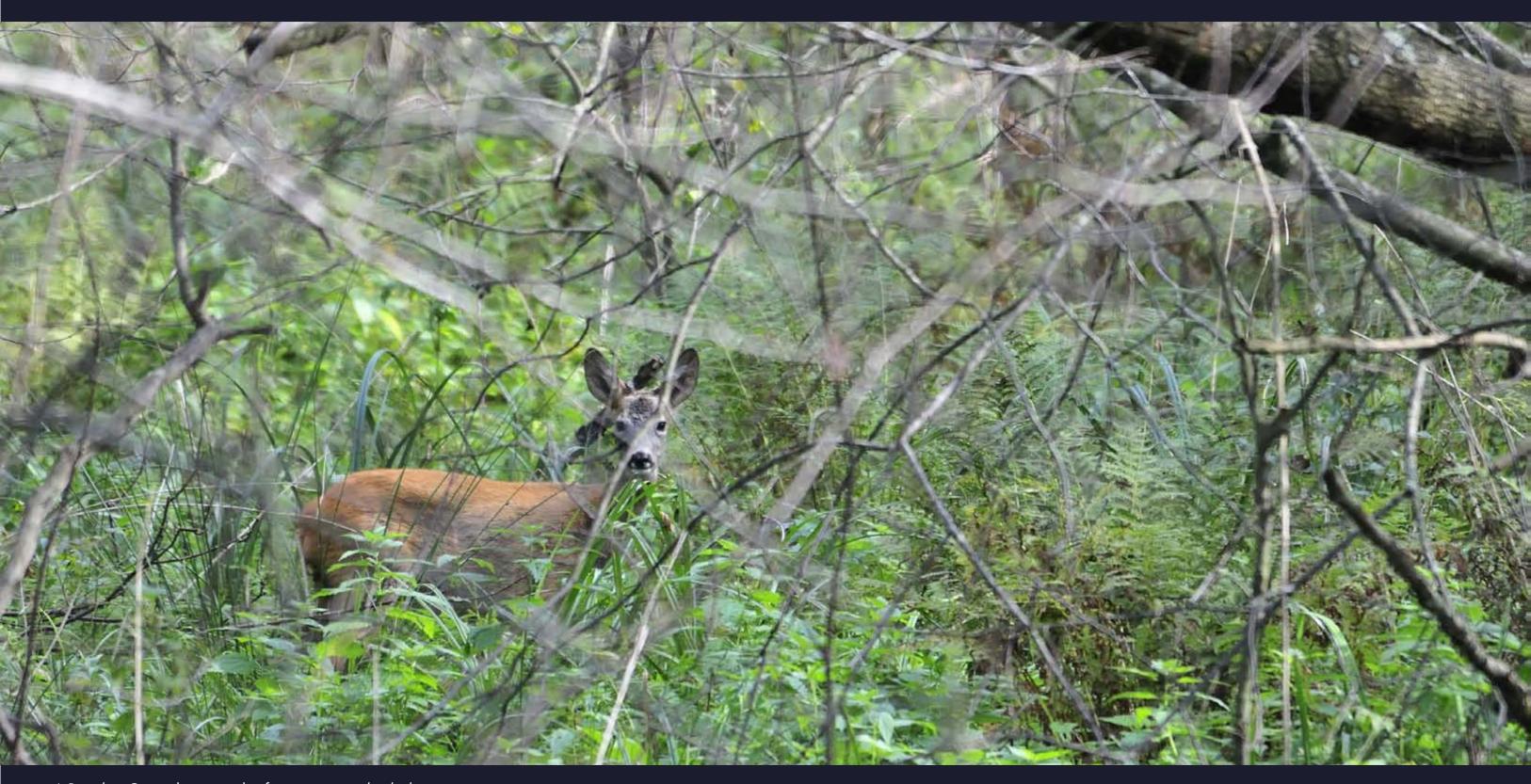
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Severely endangered elsewhere, the European Tree Frog Hyla arborea is still commonly encountered in Biebrza during spring and summer (photo Lukasz Mazurek).







A Roe deer Capreolus capreolus freezes among the thick shrubbery of a fern mire. The alder woods encircling the marshes offer excellent chances to view Roe deer and European Elk.







And yet the marshes are only one of swamp like no other, the open door to the innumerable facets of the Biebrza the tundra further north, and the last National Park, a complex, multi-laye- and only European lowland river valley red environment stretching for 1.160 with an intact longitudinal and crosssquare kilometers in the remotest cor- sectional hydrology. No wonder then if ner of North-Eastern Poland, along the this richly varied environment and its border with Belarus. This is a little many different habitats host an excep-European Amazon, a flat, wide river tional number of plant and animal spevalley counting scores of labyrinthine cies. left over by the last glaciation - a relic chose to visit in October, when the

smaller rivers, tributaries and canals Rather than visiting the Biebrza valley which snake through open meadows in late spring or early summer - when and cultivated fields, impenetrable thousands of breeding and migratory reed and sedge beds, fairy-tale fen birds congregate in the marshes and mires, waterlogged peat bogs, the nearby meadows, attacting scores swampy alder forests, birch and spruce of birdwatchers and wildlife photowoods and even enormous sand dunes graphers from all over Europe - we

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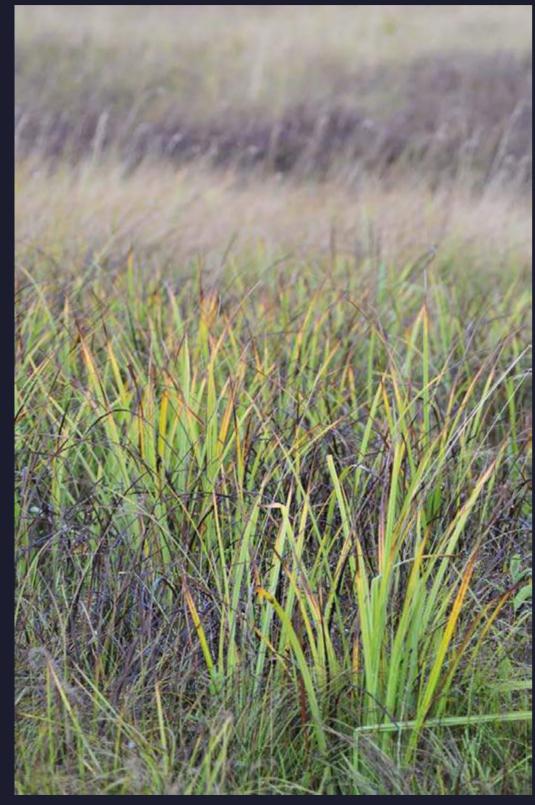


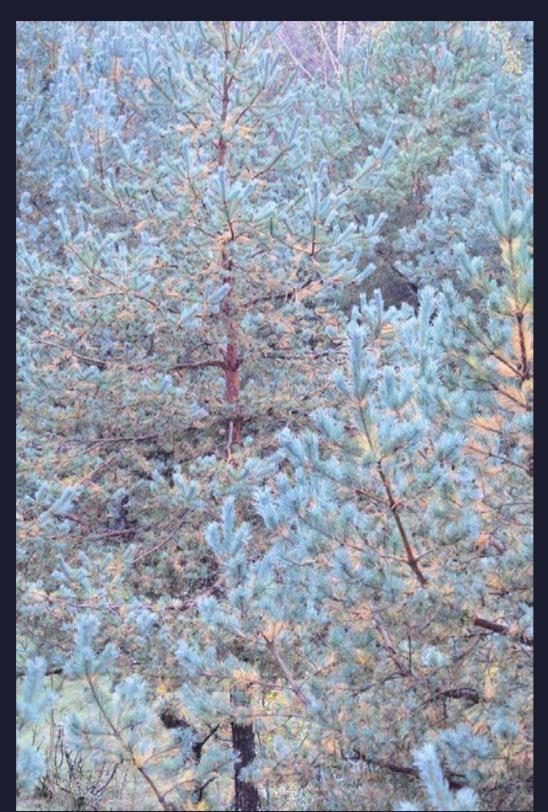














The difficulties encountered in approaching the largest mammals found in the Biebrza marshes are more than compensated by the dazzling color palette and variety shown by the vegetation's autumn foliage.



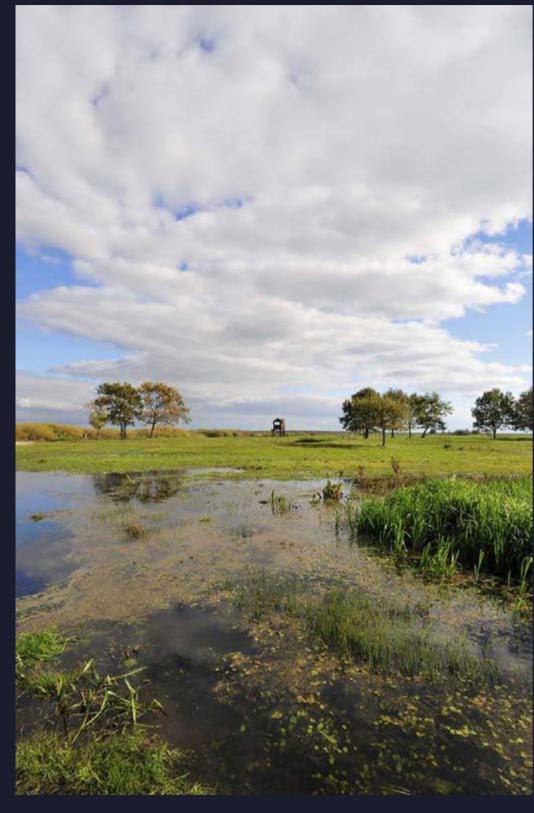














Two facets of Biebrza - the clear-water flooded meadows and a Common Toadflax Linaria vulgaris blooming on the dry, wind-swept sand dunes of Czerwone Bagno.









■ Black-tailed Godwits Limosa limosa can be frequently observed in



in general are not easy to achieve in are very shy here - one's visit to the this environment: most species are Biebrza marshes would be absolutely active in low-light conditions at dusk unforgettable, as the dizzying variety and/or twilight (especially beavers, of habitats and the stunning color which can be frustratingly difficult palette of the autumn vegetation in and rather disappointing subjects), October have very few equals. Scenic and getting close to subjects is made landscapes which can be viewed the terrain itself, which is often trea- are countless, and the highly variable se, makes searching for them so photographer's dream come true. much more interesting, and adds Bathed in the cool, muted light of the one is able to get a decent shot.

And yet make no mistake, large mam- But even if one were not to see one mal sightings and wildlife encounters single animal – mammals in particular even more difficult by the nature of from well-established vantage points cherously waterlogged and often weather and lighting conditions typiimpossible to negotiate. This, of courcal of the season can be a landscape immensely to the satisfaction when impending autumn evening, the open countryside shimmering in an ice-cold

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Click on the images and watch six short videos on the Biebrza marshes environment.







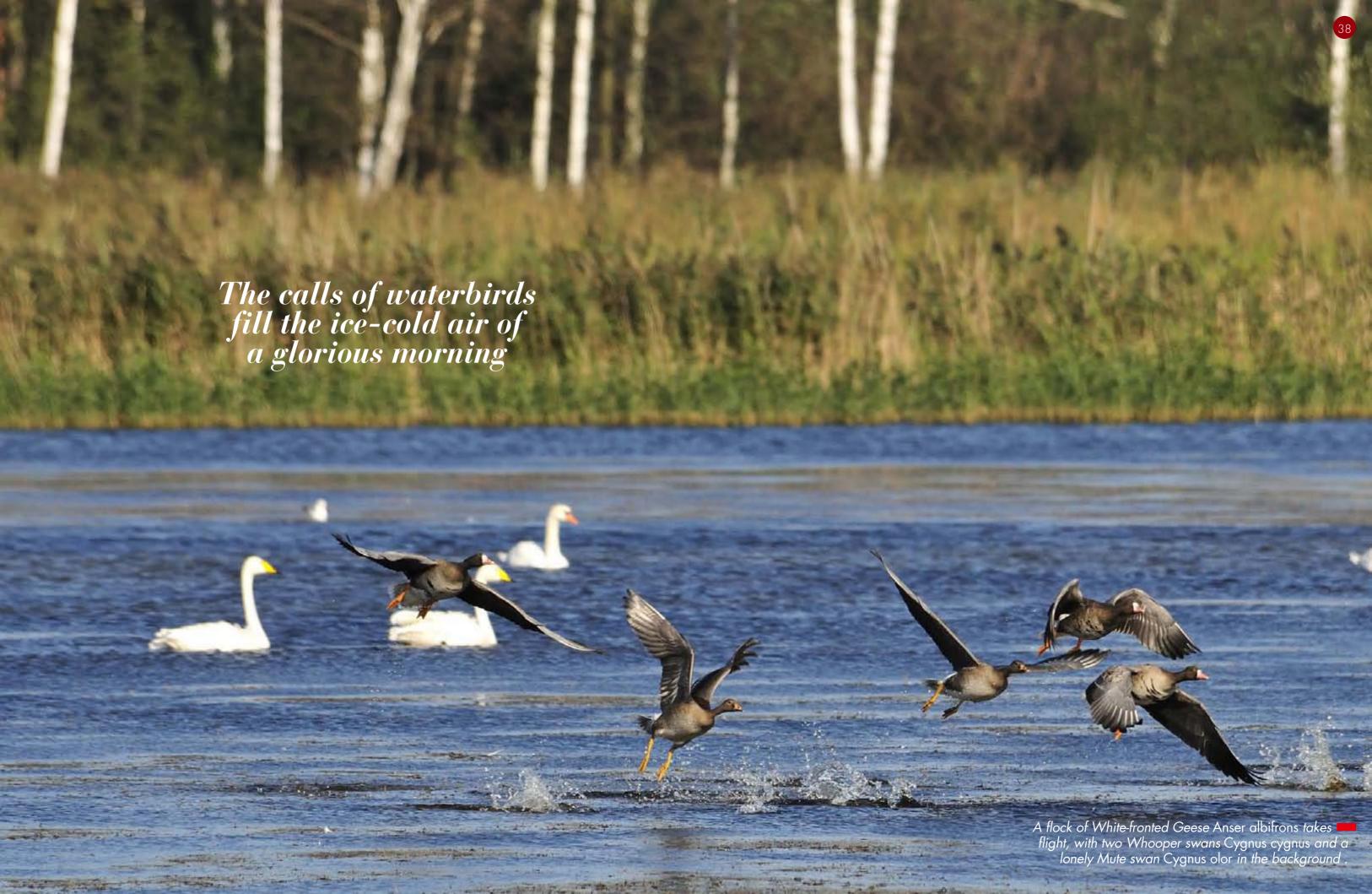


The Peat Bogs





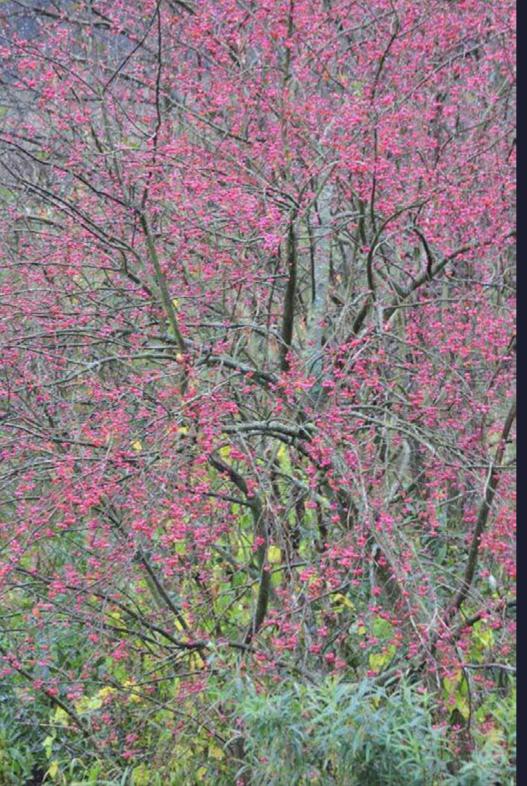
The open meadows and cow pastures around Biebrza are seasonally shrouded in cobwebs, creating hauntingly beautiful landscapes.
Right, a Common or Green Frog Rana sp. (probably lessonae) in a shallow roadside pool - Biebrza's amphibians can still be active at surprisingly low temperatures.





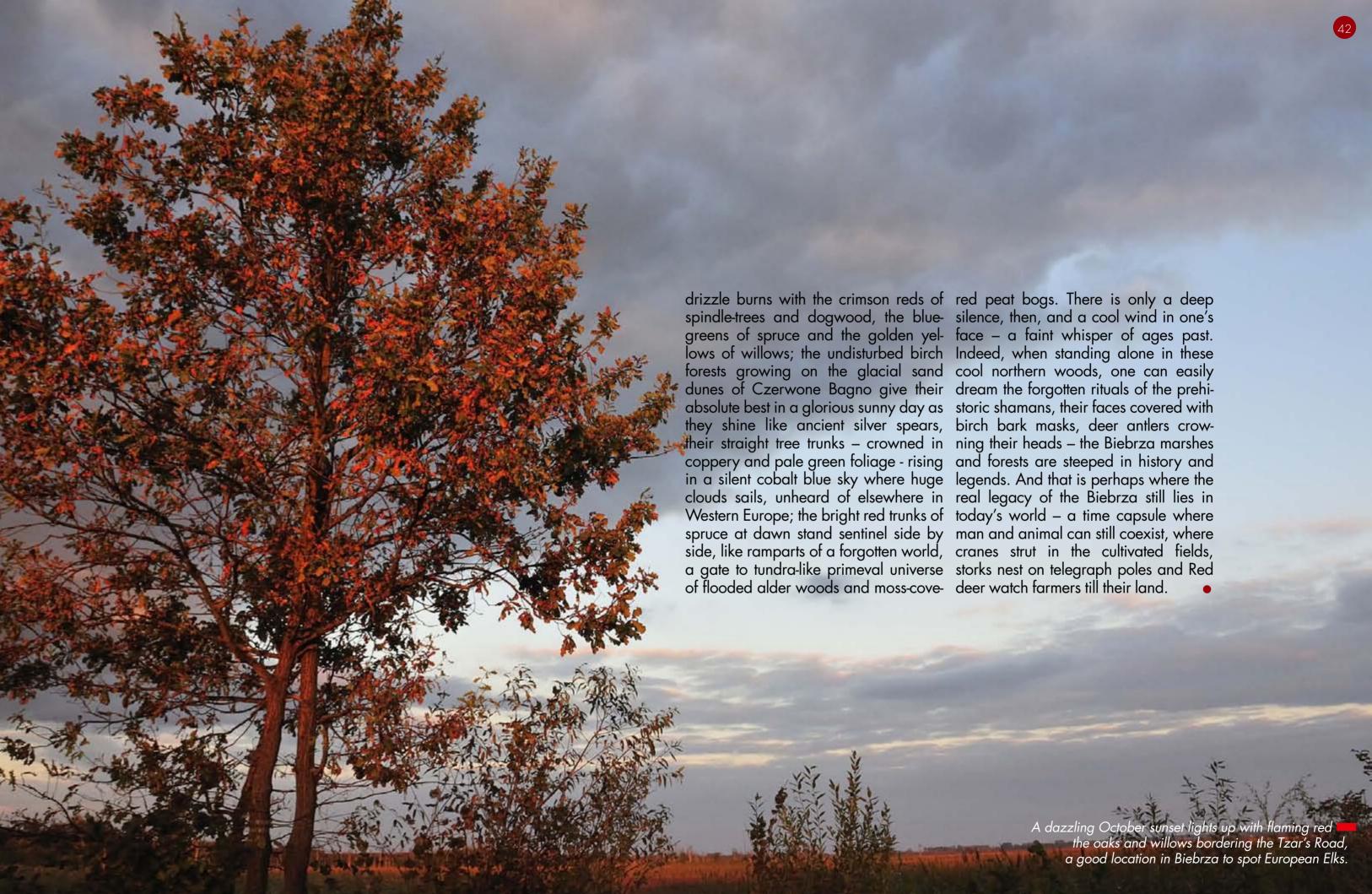








Fruiting spindle-trees Euonymus europaeus create stunning vistas in the autumnal landscapes of the Biebrza wetlands. The very low temperatures are a deciding factor in the brightness and intensity of its October colors.





Deep in the thickly forested alder bog woods, one last lucky encounter with a strikingly beautiful adult male European Elk - you can't get much closer than this!

## At-a-glance travel guide COUNTRY OF DESTINATION: POLAND



**ROUTE:** Your international flight will land at Chopin Warsaw International Airport, a thoroughly modern and well organized facility. From there it's a comfortable five-hour car drive due north-east on good, well-maintained roads to your destination, Biebrza National Park, close to the border with Belarus. There are many historically significant and scenic spots along the way so keep cameras ready.

MEANS OF TRANSPORT: You might rent a car in Warsaw and drive yourself to Biebrza but we do not advise you to - save yourself the trouble and have the trip organized by a guide who is familiar with the routes and the best wildlife viewing spots. Once in the Park you will have to drive for short distances daily and then walk - a lot - on very easy trails or in

the marshes themselves, occasionally in very cold and ankle-deep water, peat and/or mud.

**CURRENCY:** It's advisable to change one's own currency in the local one (Polish Zloty) upon arrival in Warsaw to save loss of valuable time looking for small local bank branches later on.

**ACCOMODATION:** Pick your choice from the beautiful Zagroda Kuwasy Hotel to simple, family-run cottages. There's a bit for everybody, so it really depends on your preferences. We elected to stay in small, cozy family-run wooden cottages to have a real taste of local life and traditional cuisine and did not regret it. Even basic, unexpensive accomodation is usually very clean and well heated.

FOOD: Fantastic! Heavy and abundant stuff due to the climate - plenty of smoked and cured pork, venison, herring, cabbage, pickles and preserved fruit. Surprisingly, little or no beef is consumed locally. Beware - this isn't an ideal destination for strict vegetarians! Don't miss pirogi (stuffed dumplings), the local bortsch (the celebrated eastern european red beet and sour cream soup) and Polish kompot, a brew of dried fruit and hot water which is both warming and refreshing - and which goes surprisingly well with the hearty food of the area.

**LANGUAGE:** Polish - obviously - and some German and Russian. Very little or no English at all is spoken in eastern Poland - one more reason to have a guide you can communicate with along.

## A deep connection between history, culture and nature







WORRIES: None. Locals are very decent, private, reasonably friendly country folk. Crime is virtually non-existent in the countryside. Food and drink everywhere are absolutely safe. Trails are easy to follow and usually well marked, there are no seriously dangerous animals (well, don't disturb big Elks or Wild boar!) and you will be really close to hamlets and villages most of the time anyway.

**HEALTH:** No worries worth mentioning, really.

**CLIMATE:** Continental European - reasonably warm summers, cool mid-seasons, freezing winters with lots of snow. Can be very cold at dawn and dusk - dress in layers. Good, well worn-in hiking boots and rubber wellingtons are an absolute must as there's a lot of marshy, boggy terrain to negotiate daily. Photography in the marshes can be occasionally frustrating for the presence of very high grasses and hedges, but light conditions during the day are usually excellent, presenting exceptionally rewarding opportunities to landscape photographers all year round.

**BESIDES:** Besides its well-known wildlife. Poland offers all the extraordinary attractions of one of the great cradles of European culture. Local hamlets in the north-eastern area provide interesting photo opportunities with their colorful wooden houses, and in Tykocin, nearby Bialowieza, one should not miss visiting the baroque Synagogue Bejt ha-Kneset ha-Godol, built in 1642. It will offer the opportunity for some sombre reflections about some of the Country's darkest moments in history

as the Jewish population of Tykocin - numbering 2.000 - was slaughtered en masse by the Nazis on 25-26 August 1941. Then of course there's the rebuilt and vibrant center of old Warsaw - razed to the ground during the Warsaw Ghetto Uprising of 1944 and subsequently rebuilt brick upon brick with spectacular results - which one should not miss visiting before flying back home at the end of the trip. Poland offers many other exceptionally beautiful, not-to-be missed destinations - such as the historically and artistically significant Krakow, a jewel of a city - which however lie beyond the scope of this guide. For art, architecture and music lovers it is a destination of a lifetime, and one of the most beautiful destinations one can think about if wishing to mix culture and nature/wildlife during a single trip within Europe.







"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

"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

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

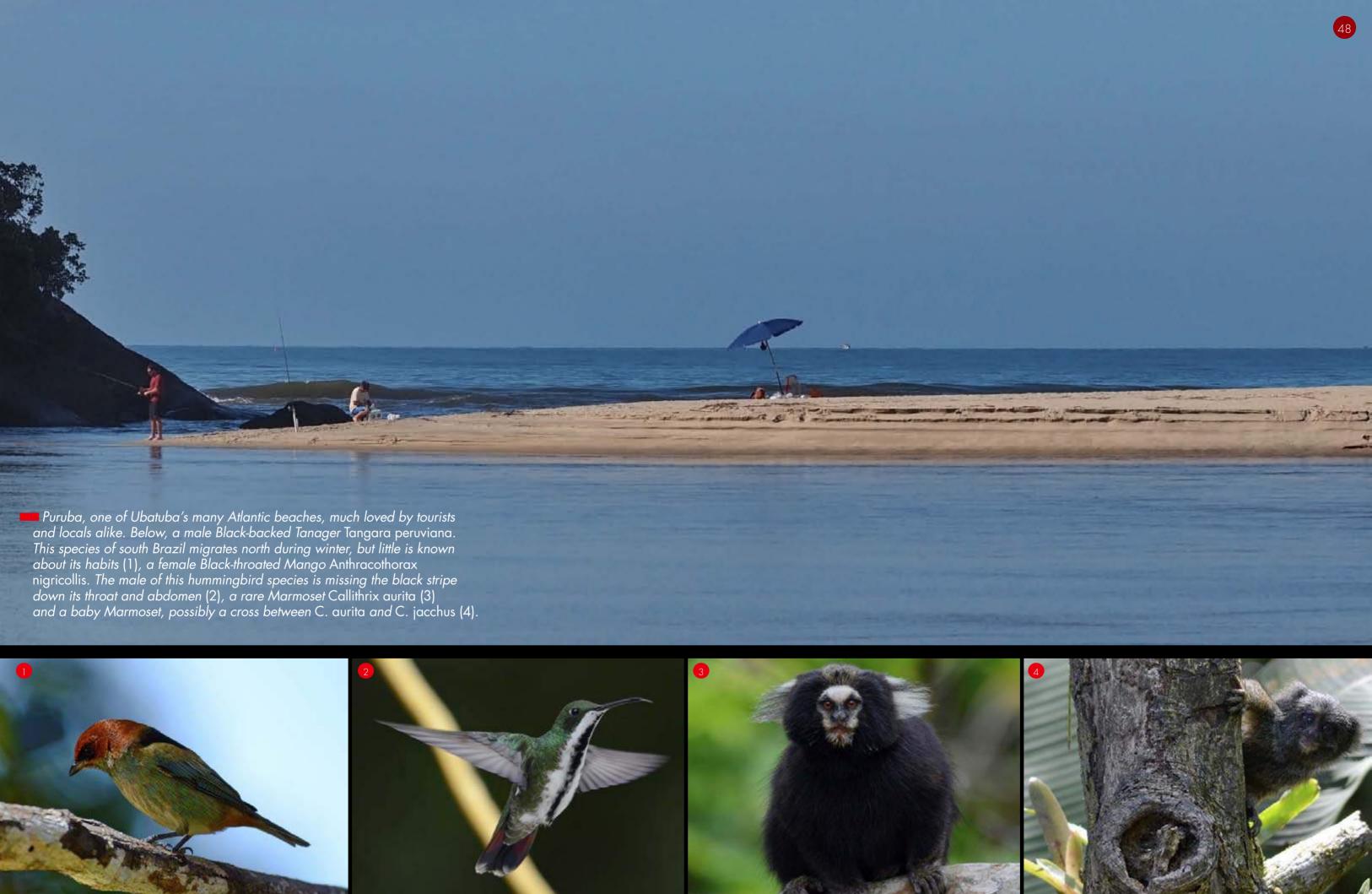
"Great trip, great experience and great workshop leader. Great opportunity for capturing images of magnificent and uncommon (in southern USA) birds. Organizers contribute to great group dynamics and superb attitude. Cool techniques". Eric Grossman, USA

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A Swallow-tailed Kite Elanoides forficatus swoops over one of Ubatuba's many beaches. This bird graces the skies of the area very occasionally, always in groups – it is one of the rare gregarious raptor species – and it is an agile and very elegant flyer, commonly performing fantastic mid-air acrobatics.



What I did know about were its stunning beaches (80 of them, some busy, others accessible only by boat or trail) and the magnificent scenery comprised of ocean, islands, mountains, lots of green and boulders, certainly one of Brazil's most beautiful coastal stretches. Driving along, there are moments in which stopping just to gape is almost compulsory. Oh, and I also knew it rained. A lot. Locals and tourists alike jokingly call Ubatuba "Ubachuva" -"chuva" in Portuguese means rain. No wonder: the area receives over 2,500 millimeters of yearly rainfall. People may hate the rain because it wrecks their day at the beach (and Brazilians love the beach), but I embrace it because it created this lush, chaotic, sensual, fascinating paradise, where 30-meter high trees, a mind-boggling variety of plants and countless animal species coexist. I have it as my next door neighbor, and more often than not it makes life that much more interesting, albeit sometimes a bit dangerous.

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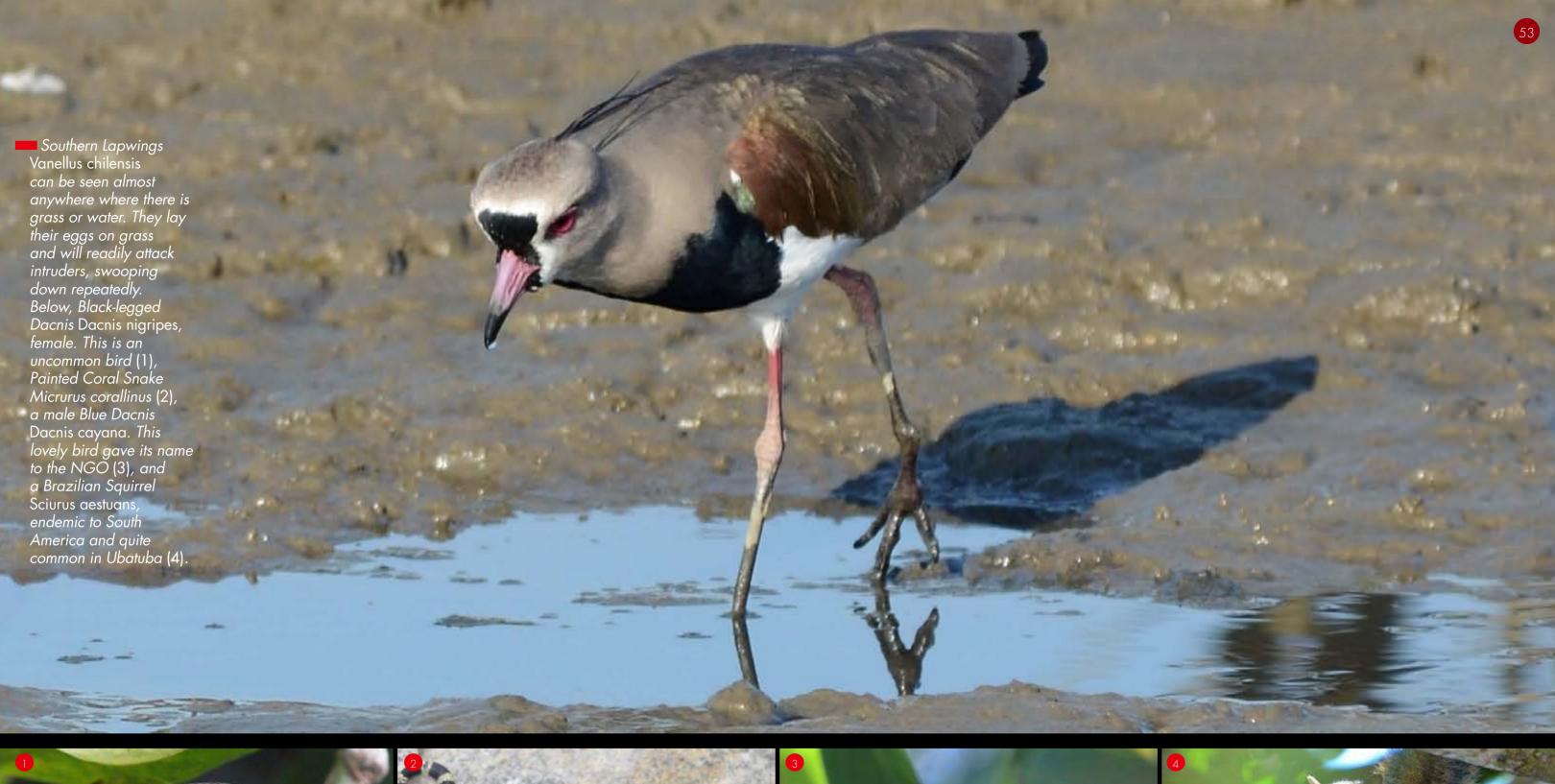


Left, portrait of a White-edged treefrog Hypsiboas albomarginatus. Right, a stunning Swallow-tailed Hummingbird Eupetomena macroura, one of the most beautiful species to be seen in Ubatuba's Atlantic Rainforest (1) and the colorful inflorescence of an Aechmea nudicaulis, a commonly observed bromeliad which is native to the Atlantic Rainforest (2).









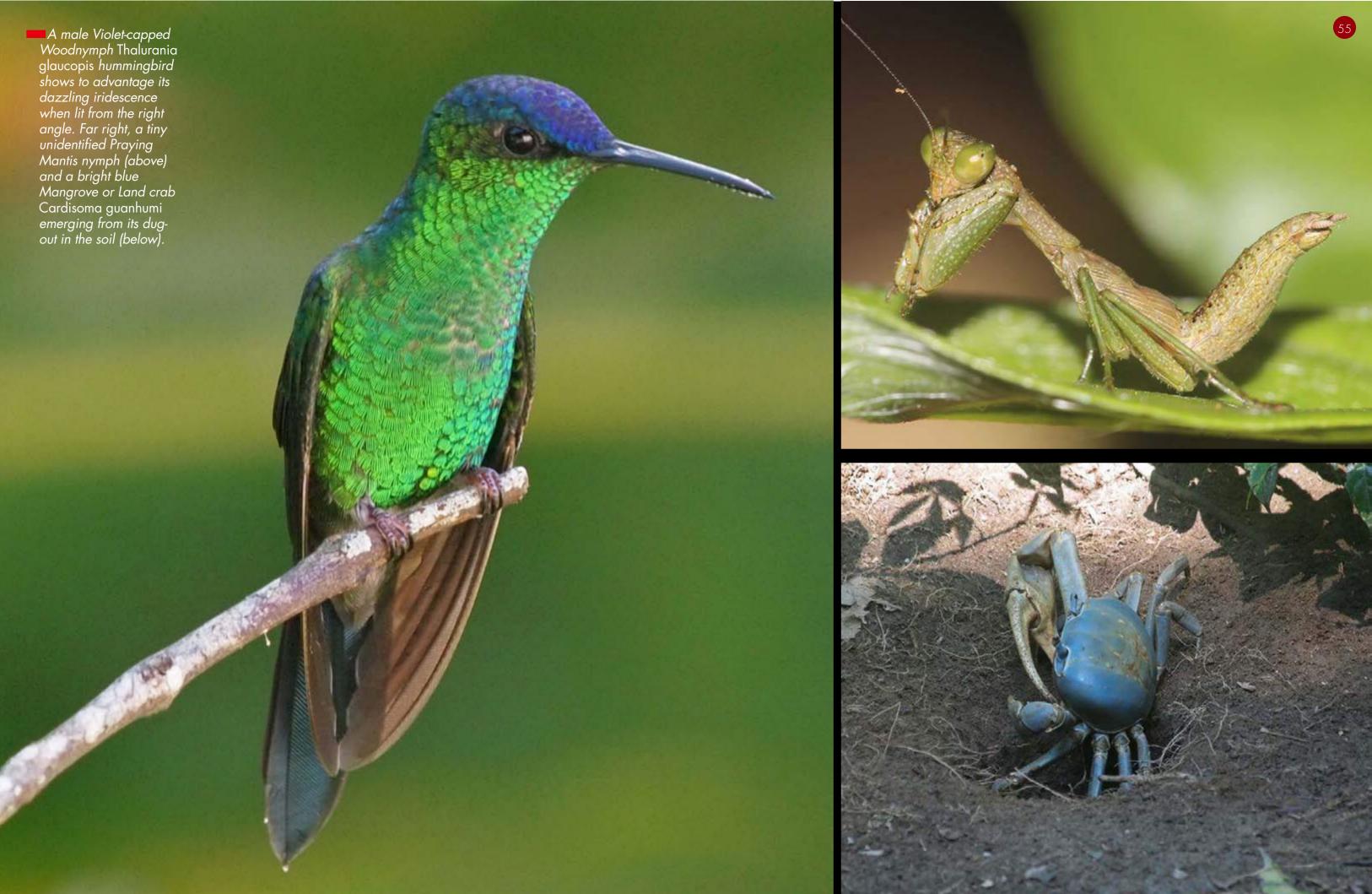


















Left, a bromeliad blooms high up in the forest canopy.
Right, a male
Goldenrumped
Euphonia
Euphonia
cyanocephala.
This is a yearly
winter visitor
to Ubatuba,
and a precious
one: its
distribution
isn't wide and
it is more easily
seen at higher
altitudes (1),
and a
Glitteringthroated
Emerald
Hummingbird
Amazilia
fimbriata (2).



















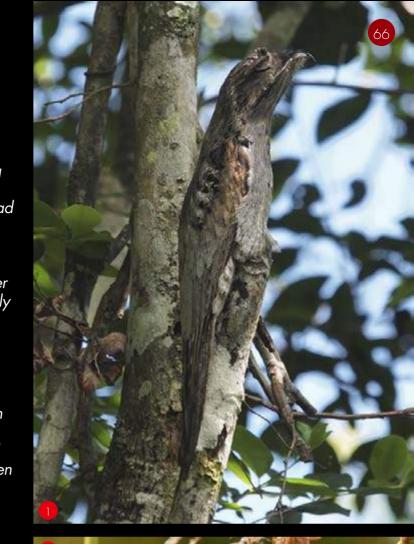








Left, a stunning portrait of a rare Golden Lancehead Bothrops (or Bothropoides) insularis, a venomous pitviper species found only on Ilha da Queimada Grande, off the coast of São Paulo. Right, a Common Potoo Nyctibius griseus. It is hard to spot, even when it is perched in it is perched in an open area, as it blends in perfectly with its surroundings. Resting or asleep during the day, this species is active only during the night (1). Below right, a Blue-winged Parrotlet Forpis xanthoptervaius xanthopterygius.
This is a highly social species, usually appearing in noisy flocks to feed on fruits and seeds (2).





I became completely smitten with the forest. Finding out how threatened it was and how close we were to losing our natural heritage and its irreplaceable biodiversity led to the next step: wanting to proactively preserve it. And thus Projeto Dacnis, the non-profit organization I run, was born. The research leg of the NGO is headed by Edelcio Muscat, a wonderfully inquisitive and patient biologist and herpetologist who developed his own view of Ubatuba's diversity through macro lenses. It is a joy to observe him handling the serpents that come his way; with a mixture of respect and tenderness he will eventually coax them into the perfect photo angle, then put them back into the box and set out to release them far from human presence. Edelcio's extensive knowledge of serpents, reptiles and amphibians has earned him a reputation that extends far beyond the borders of Ubatuba. Dacnis is involved in several research projects in and around the county – after all, the Atlantic Rainforest is far-reaching -, in partnership with ICMBio, the federal environmental agency, and Instituto Florestal, its state counterpart.

Two of these projects involve islands where there are fantastic and mythical serpent species; a third project is about surveying animal species in the Cambucá nucleus of the state reserve to develop a conservation and management plan for the area.

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Closer to home, our 40.5 hectare area of private reserve is undergoing the same process, and more often than not one of us will be there, camera, binoculars and voice recorder in hand, to map out our own turf and study the rare Buffy-tufted Marmosets that made their home there. The property's caretaker, Faustino, was brought up in an Indian village, speaks fluent Tupi, knows more about animals than many scientists and handles serpents better than most. He will phone Edelcio in a state of almost childish excitement to tell him there's a huge jararacucu or coral snake waiting for him there, or he will call me to lengthily describe the new hummingbird he saw. This kind of enthusiasm and respect for life is what makes Dacnis tick. And it is one of our objectives to instill this attitude in the local communities with which we work.







Left, a Great
Egret Ardea
alba is
reflected in the
still waters of a
coastal lagoon.
Right, a male
Yellow-legged
Thrush Turdus
flavipes.
This species
is found in
several parts
of Brazil,
but it is never but it is never but it is never common.
It hung around at Dacnis because the Brazilian cherry trees (Eugenia uniflora) were laden with fruit, one of which is in its mouth (1).
Below right, Blue Dacnis Dacnis cayana, cayana, female (2).









### 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:** Ubatuba is 240 km from São Paulo and 310 km from Rio de Janeiro. The majority of international flights lands in one of these two cities. From either one, access to Ubatuba is by road. From São Paulo there are several daily buses to Ubatuba and the trip takes four hours; it is a five-hour bus trip from Rio to Ubatuba. Another option is renting a car at the airport and driving yourself. If you are into serious birdwatching, the best recommendation is hiring a guide who will take care of the logistics for you, which usually includes getting you to Ubatuba.

out and your destinations here can easily be 40 km breakfasts - to more luxurious beachfront hotels and

worry about because he will get you around. Otherwise, rent a car here (or have friends in the area!) and have a map or GPS. Little local roads can be bad, unpaved, often sandy, rocky, muddy or all of the above.

**CURRENCY:** The national currency is the Brazilian Real, pronounced with a stressed "a". One real, two reais. You can get local currency in most ATMs, using your international credit card; travelers cheques may get you nowhere, but credit cards are widely accepted.

**ACCOMODATION:** There is lots of it, everywhere. **MEANS OF TRANSPORT:** Ubatuba is very spread From modest pousadas – analogous to bed & apart. If you have a guide, then there is nothing to self-catering facilities, the range is wide and will cater

to most tastes and budgets. If you want to wake up to birdsong in the forest, Dacnis (pictured above) offers two comfortable en-suite rooms and a well-equipped kitchen for you to prepare your own meals. Breakfast on the terrace is a lot more than what is on your plate: you also feast at the sight of countless hummingbirds around feeders right in front of you.

**FOOD:** Fish, shrimp and squid in all kinds of dishes are normal; availability and price depend on the time of year. We love finger food: breaded squid, fried manioc fingers, sun-dried meat in little balls, pastel (a fried, light, savory pastry filled with shrimp, meat or cheese) or pão de queijo (a fluffy cheese bread) go well with a very cold lager or a caipirinha – sugarcane spirit, lime, sugar and

Sun, sea, sand and rainforest - a winning combination







ice, the Brazilian national drink – at a day's end. The When hiking in the forest it is best to wear hiking boots places. Luckily there is no malaria traditional inhabitants of this part of the coast always and long pants, and always look before you put your or Yellow Fever in Ubatuba. had, as their main ingredients, what ocean and land foot down, especially behind big rocks: there could be yielded: fish, seafood, bananas, coconuts, hearts of a snake there, and some of the local ones are very **CLIMATE:** Late spring and summer – from the palm, peppers, manioc. They can be found in traditional venomous. Do not move rocks or sit on them before beginning of December until late March – can be dishes like moqueca, a fish and seafood stew, or fish inspecting the surroundings first. In places with low hot. It's less about the temperature (which very rarely with plantain, and are also part of recipes with a vegetation or high grass, ticks are a problem. climbs above 34°C) and more about heat combined modern, more refined, twist. Be careful if you add Mosquitoes and other nasty biting bugs are ubiquitous. with a consistently high humidity, which can make it pepper, as the local kinds are known to be fiery. Another Repellent is mandatory, and carrying anti-itch ointment muggy and unpleasant. During these months, hiking Brazilian specialty is barbecue.

Portuguese. Some people will speak English, but don't expect to find them everywhere. If you speak Spanish, you'll get around with no problems.

WORRIES: The crime rate in Ubatuba is comparatively low, and the most common occurrences **HEALTH:** The main concern are insect-transmitted are thefts of opportunity and burglaries during the high diseases, especially dengue fever in the summer season. It is never a good idea to leave valuables lying months. The water is okay, but not even the locals Ubatuba is often called "The capital of surf." Visits around in plain view in the car, for instance, and it drink it straight out of the tap (it smells of chlorine); to an indigenous village or a caiçara community can doesn't cost to keep an eye on your photographic filtered and bottled water is fine. The food, even raw, also be easily arranged for a bit of local color and equipment. Walking in town after dark should be safe. is generally safe, especially in the more popular a better feel for history.

in your medicine kit can do no harm. It is advisable to in the forest tires you out easily; it feels like a sauna avoid high season, between Christmas and the end of in there. This is also the rainiest part of the year, and LANGUAGE: Portuguese, or rather, Brazilian January, and the extended Carnaval holiday, which dramatic, intense summer storms are common. In happens fifty days before Easter, because it is very winter, daytime is usually sunny and beautiful, whilst crowded. Traffic will be bad and there will be gueues in nighttime the temperature can fall to about 12°C. in most places, so you will waste a lot of time you could be using better. And prices are higher, too.

**BESIDES:** Ubatuba is a laid-back, cozy beach town. Many secluded beaches are truly spectacular and if you are into sun, sand and water, they deserve to be explored. Some of them also offer good surfing, and





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# Dythms of Africa

Piper MacKay — a Wildlife Photographer in Her Own Words

A woman's passionate love affair with Africa, its wildlife and its cultures is at the origin of an extraordinary collection of animal and human portraits - all equally intense

As a professional cultural and wildlife photographer, I'm driven by my passion to document the beauty of our fragile planet in hope to protect wildlife and cultures living on the edge of extinction. My work is heavily concentrated on the African Continent and I've spent much time in Eastern Africa over the past six years documenting both the people and the wildlife. As many photographers before me, I came to this craft by chance. I had been plugging along in a fashion career in design and textiles for the past 20 years when I took that once-in-a-lifetime trip to Africa, a land I fell in love with the minute my feet touched down on its rich red soil and a trip that changed the trajectory of my career and life. I returned to Africa two more times in the first six months after that first trip. Although this new path has been filled with extreme challenges, when you find a passion that fills your soul and gives you a strong purpose to what you believe is right, the rewards of doing what you love outweigh the sacrifices. I believe the more compelling work comes when you invest time, living the stories you are trying to tell even when that means living in harsh conditions. It is important to interact and gain the trust of those whose stories you are telling, especially when sensitive



www.pipermackayphotography.com

and complicated. The world has enough images of poverty, pain and disaster, much more needful is imagery that reveals the beauty of nature and those living in harmony with the Earth. Powerful images help shape the view of the world and play an important role in disseminating how cultures and wildlife are coping with the rapid changes happening in the developing world. My passion for the natural world has grown into a lifelong commitment to inspire others to explore, respect and preserve the beauty of our fragile planet. I believe great change is made by one person who is emotionally touched by a personal experience and persons act with passion when they are emotionally and physically involved. I am now leading tours in Eastern Africa to create a heightened understanding of the issues faced by wildlife and cultures in this region. My work has been displayed at the Smithsonian Natural History Museum, The Museum of History and Industry and The Art Wolfe Gallery, as well as local galleries. It has been featured in nature, photography, and travel publications through representation of several photo agencies, including Nature Photographer, Rangefinder, Nature's Best, Birders and the World Wildlife Fund.







**Portrait of a Mursi girl,** Omo Valley, Southern Ethiopia. Canon EOS 7D, 1/640, f 2,8, ISO 100, 135mm (1)

Portrait of White Rhino, Lake Nakuru, Kenya. Canon EOS-1D Mark II, 1/800, f 7, ISO 1000, 500mm (2)



Portrait of a beautiful Mursi girl,
Omo Valley,
Ethiopia.
Canon EOS
5D Mark II,
1/200, f 2,8,
ISO 200,
200mm
(1)

Portrait of a male lion walking right towards me in the Masai Mara, Kenya.
Canon EOS-1D Mark III, 1/2500, f 8, ISO 2000.
700mm (2)









**Portrait of an elder Mursi woman,** Omo Valley, Southern Ethiopia. Canon EOS 5D Mark II, 1/1250, f 2,8, ISO 400, 185mm (1)

**Portrait of a Mursi warrior,** Omo Valley, Southern Ethiopia. Canon EOS 5D Mark II, 1/1000, f 4, ISO 200, 200mm (2)



**Peek-a-boo!** A baby baboon that was playing with me for about a half hour in Lake Nakuru, Kenya.

Canon EOS-1D Mark II, 1/400, f 5,6, ISO 200, 500mm (1)

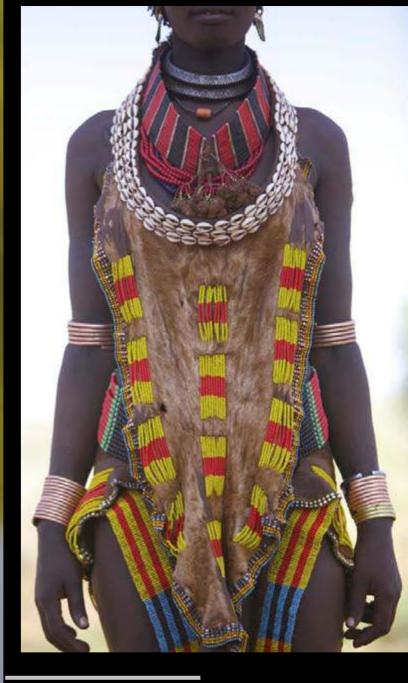
**Waterbuck** on the Masai Mara plains, Kenya. Canon EOS 5D Mark II, 1/640, f 10, ISO 500, 700mm (2)











**Beautiful colorful beaded skins** worn by the Hamer women, Omo Valley, Southern Ethiopia. Canon EOS 5D Mark II, 1/8000, f 2,8, ISO 1600, 120mm

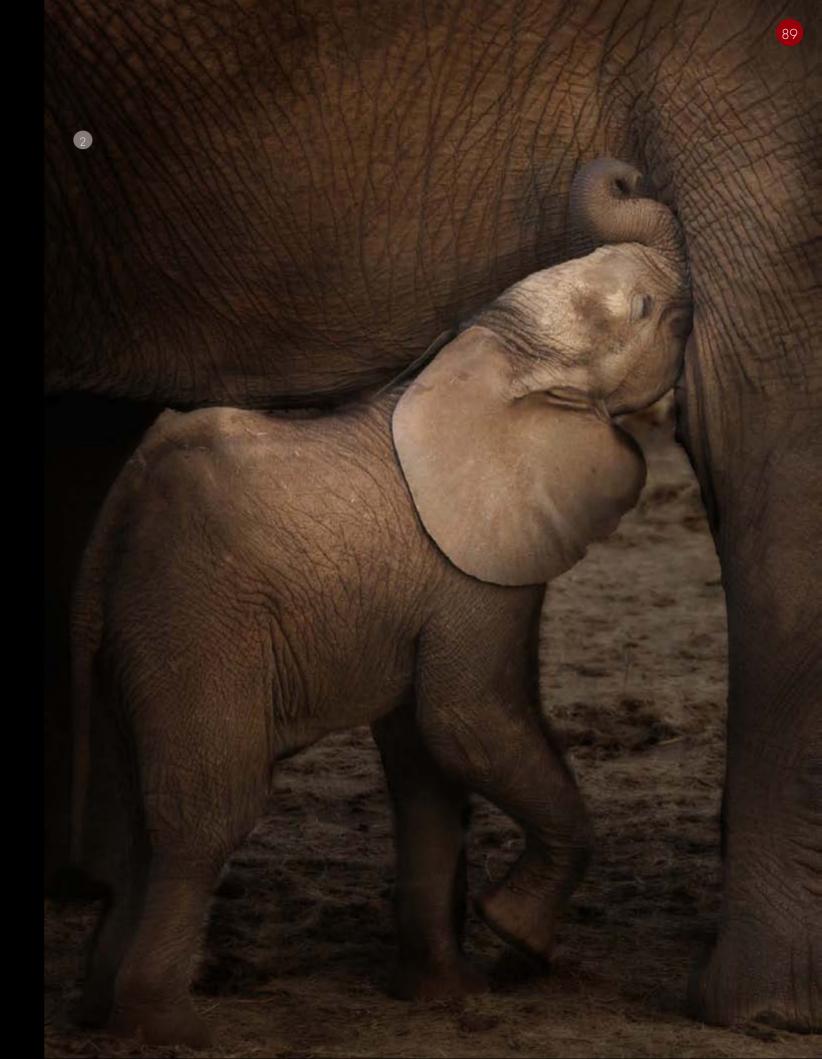
Portrait of two beautiful Mursi girls along the river, Omo Valley, Ethiopia. Canon EOS 5D Mark II, 1/640, f 4, ISO 200, 120mm





**Portrait of a Kara woman with child,** Omo Valley, Southern Ethiopia. Canon EOS 5D Mark II, 1/320, f 13, ISO 200, 35mm (1)

**Young elephant trying to nurse**, salt lick, Eastern Kenya. Canon EOS 5D Mark II, 1/250, f 6,3, ISO 1000, 500mm



Miracle in the Mara, six cheetah cubs in the Masai Mara, Kenya. A rare opportunity as most cheetahs have between 3-4 cubs and mortality rate is as high as 95%. Canon EOS-1D Mark III, 1/2500, f 13, ISO 2000, 700mm





**This cheetah** had already lost all of her cubs but this one and was going to great lengths to protect it. This image was part of the Nature's Best exhibit at the Smithsonian Natural History Museum. Masai Mara, Kenya. Canon EOS-1D Mark II, 1/1600, f 7,1, ISO 100, 500mm



Portrait of an elephant swimming across the Zambezi river in Botswana. Canon EOS 20D, 1/250, f 8, ISO 800, 255mm





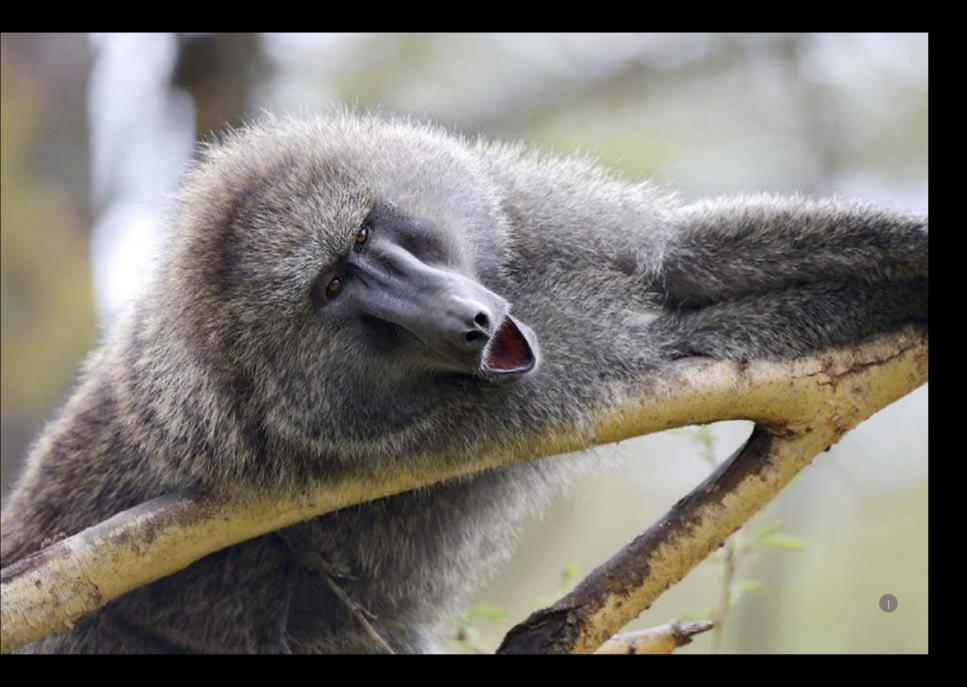


The most beautiful full maned male lions are found in the Masai Mara, Kenya. Canon EOS 20D, 1/1000, f 4, ISO 200, 500mm (1)

Portrait of a Mursi woman who wears ornamental clay lip plates, elaborate headdresses and beautiful body paint, Omo Valley, Ethiopia. Canon EOS 5D Mark II, 1/1250, f 2,8, ISO 200, 200mm (2)







Being scolded by a male baboon, Lake Nakuru, Kenya.
Canon EOS-1D Mark II, 1/160, f 4, ISO 500, 500mm (1)

Portrait of a Silverback Mountain Gorilla, Virunga hills, Rwanda. Canon EOS-1D Mark II, 1/100, f 2,8, ISO 1250, 105mm (2)







Portrait of a Mursi woman hiding a fresh cut in her lip with a leaf. At a young age a girls lower lip is cut by her mother and is held open by a wooden plug until the wound heals and a lip plate is inserted. Omo Valley, Southern Ethiopia. Canon EOS 5D Mark II, 1/400, f 2,8, ISO 200, 165mm (1)

Portrait of a beautiful Mursi girl, Omo Valley, Ethiopia. Canon EOS 5D Mark II, 1/160, f 5,6, ISO 320, 200mm (2)



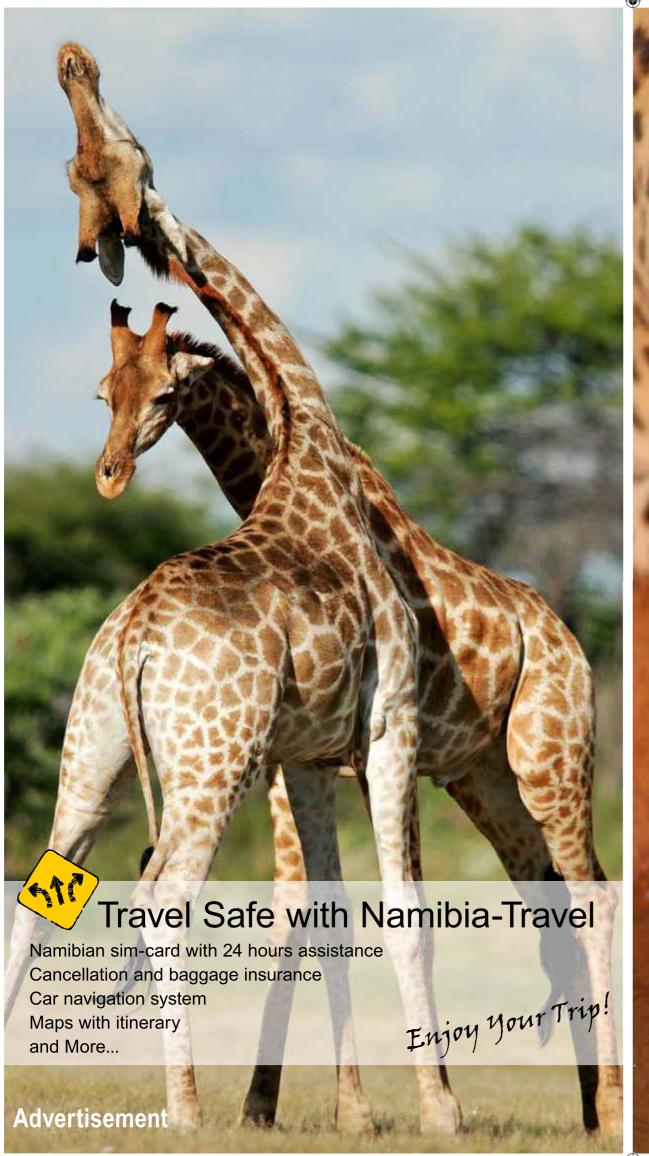


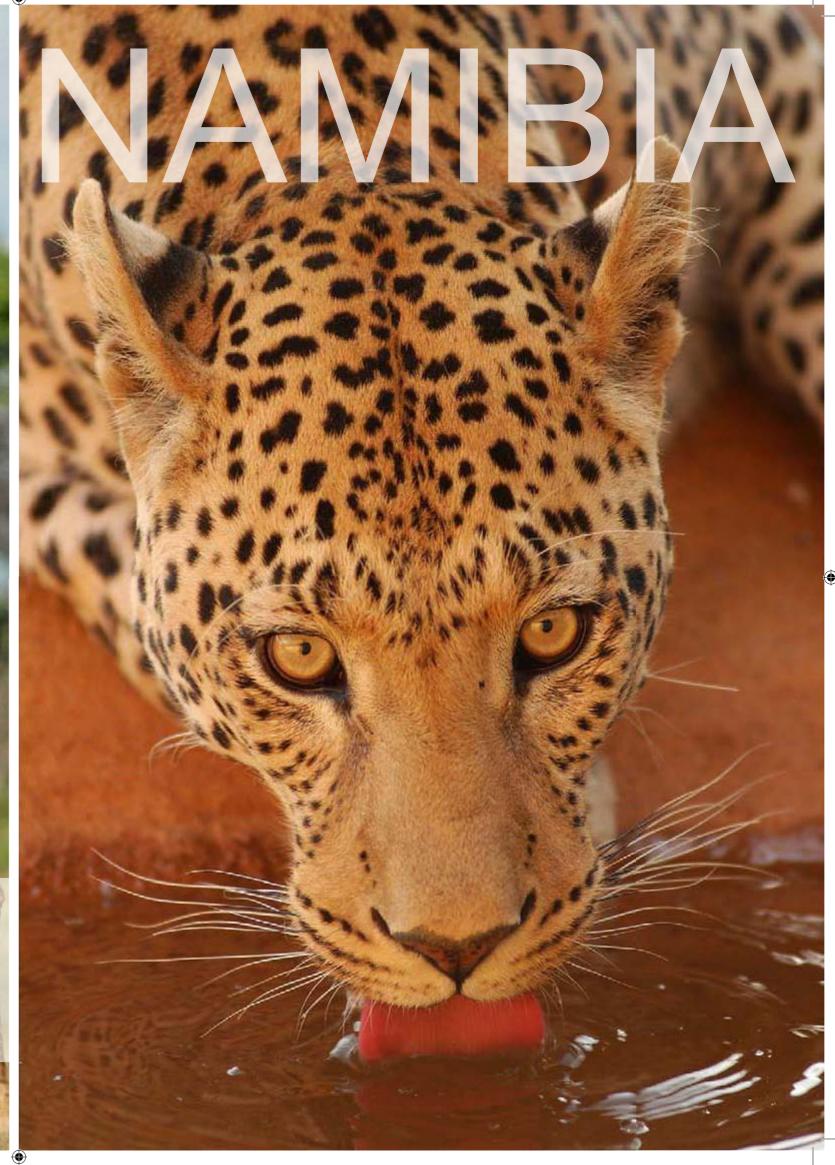
Portrait of the Kara warriors sitting along the banks of the Omo River, Ethiopia.

The Kara excel in face and body painting that is practiced daily in preparation of their dances and ceremonies.

They pulverize locally found white chalk, yellow mineral rock, red iron ore and black charcoal to decorate their bodies often mimicking the spotted plumage of a guinea fowl. The men create highly decorated clay hair buns, which can take up to three days to complete. Canon EOS 5D Mark II, 1/800, f 5, ISO 200, 200mm (1)









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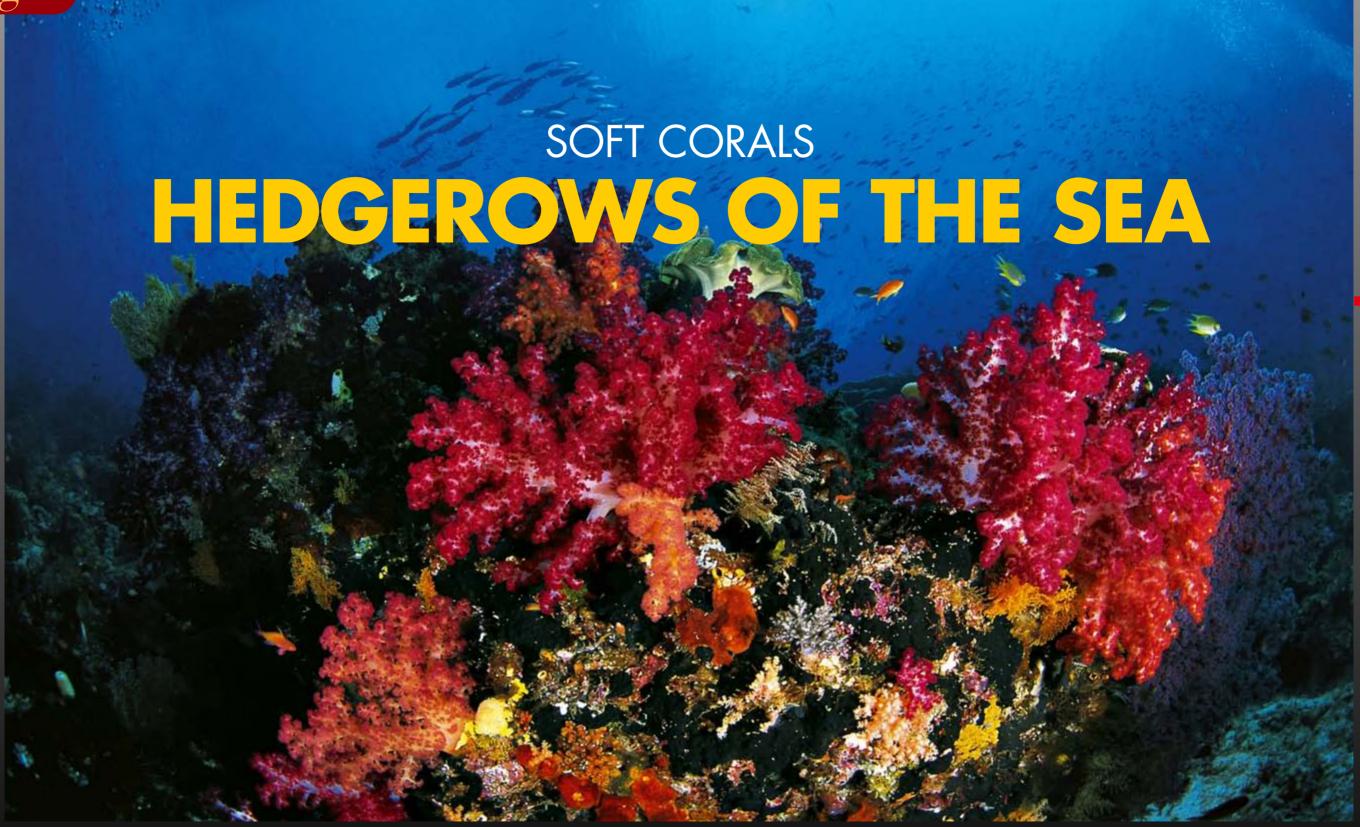


### SRILANKA

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Soft corals belonging to the genus Dendronephthya are some of the reef's most colorful benthic organisms. This vibrant underwater landscape was shot nearby Krilsland in Raja Ampat, West Papua.

**Spotlight** 

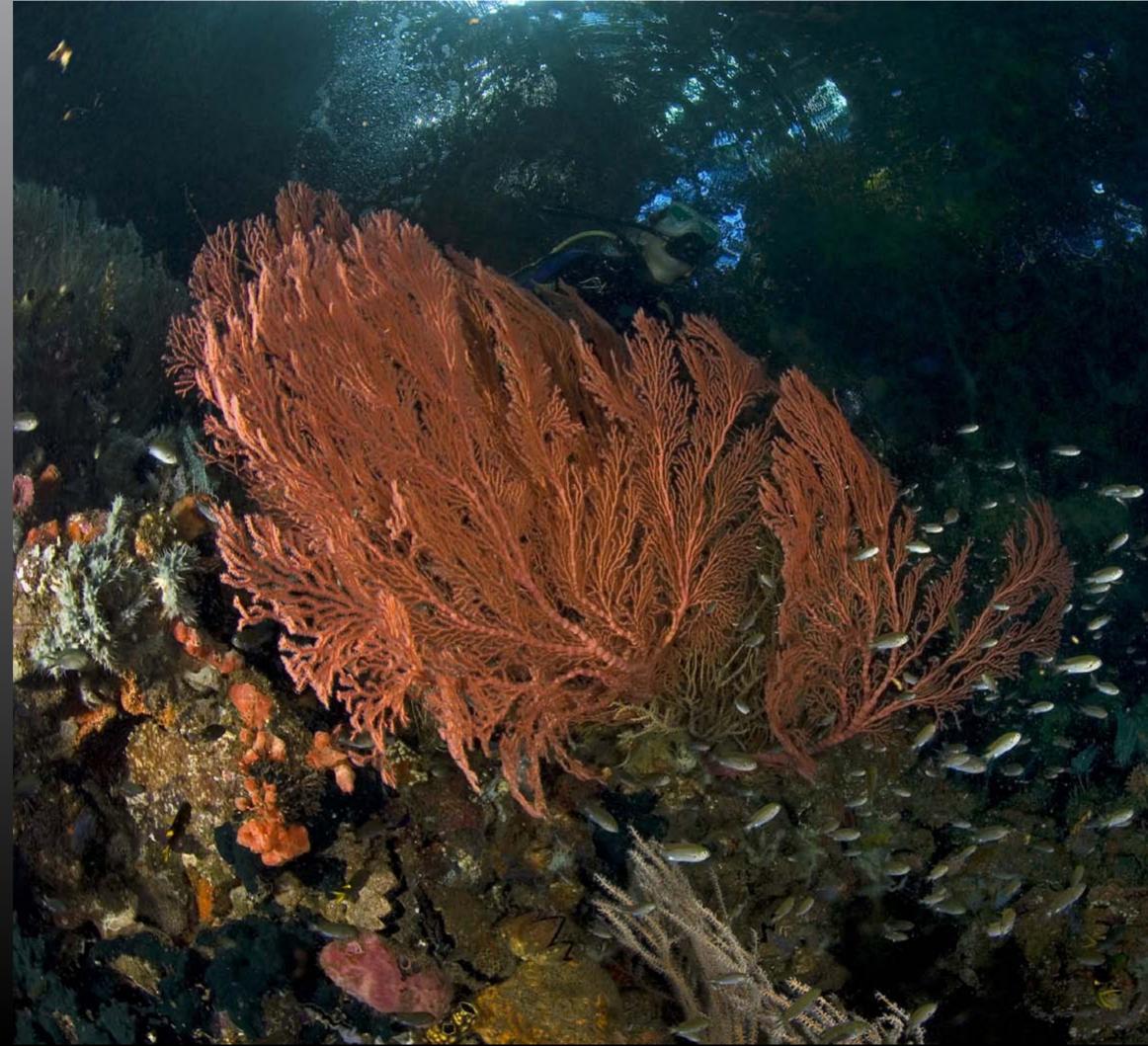


Taking a close look at the fascinating underwater micro-habitat created by these colorful and all-important denizens of the tropical coral reef

TEXT BY ANDREA FERRARI
PHOTOS BY ANDREA & ANTONELLA FERRARI

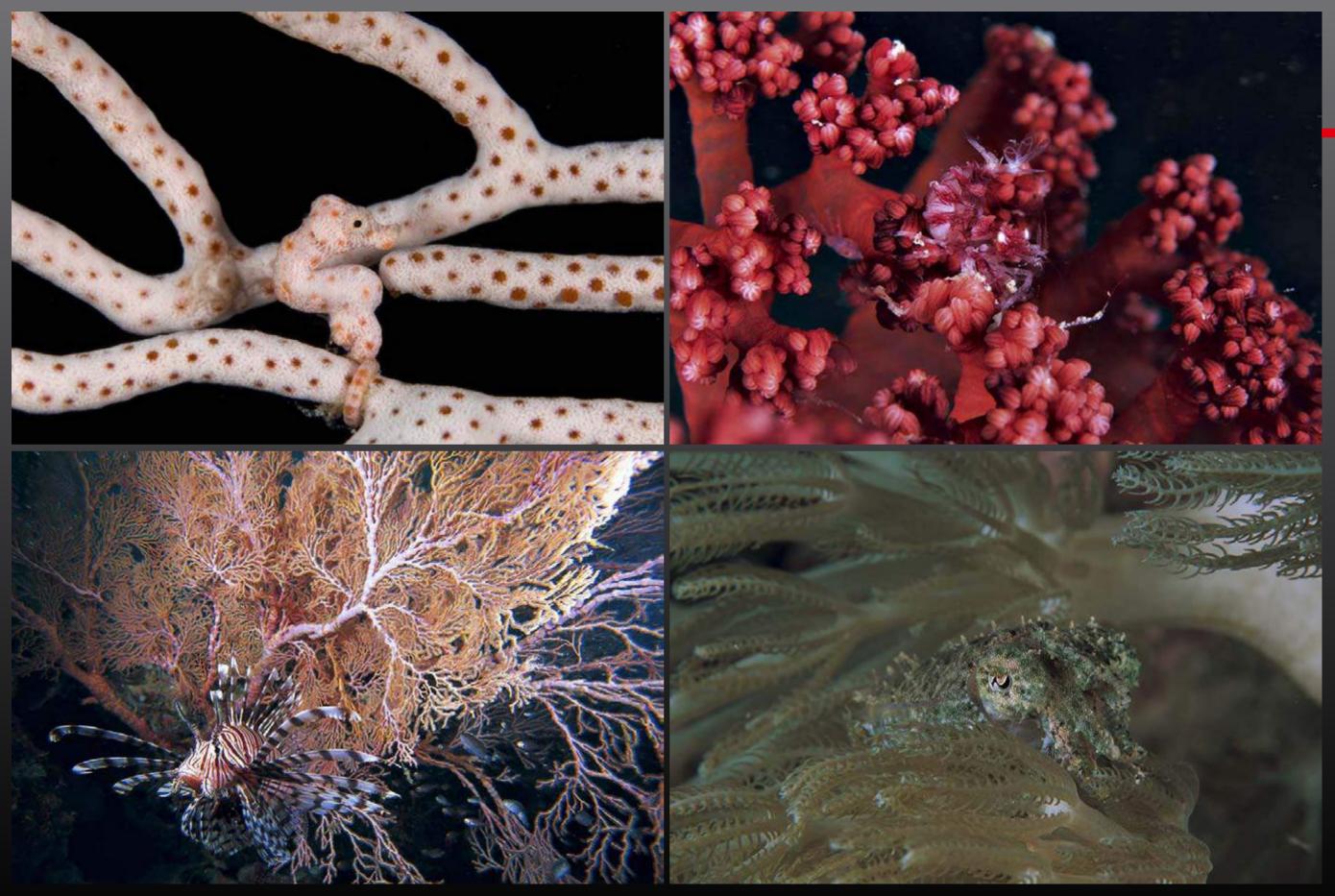
ink, red, orange, purple, yellow – soft corals come in all candy colors. And shapes too: from big fleshy cauliflowers (Dendronephthya) to three-meter wide sea fans (Muricella, Echinogorgia and many other genera), from slender seawhips (Juncella) to corkscrewing wires (Cirrhipathes). Soft corals proper, bushy thickets of black corals, horny gorgonians or sea fans and deepdwelling sea whips share however one common trait: they all are ahermatypic corals (meaning they are not reef builders like hard corals) and make wonderful photo subjects for wide-angle and fisheye aficionados. However, there's more to soft corals than it meets the eye...especially if one takes the trouble to get very, very close, and start scrutinizing their surface.

If we - correctly - consider a coral reef as a submerged rainforest, then soft, black and whip corals and gorgonians or sea fans can be thought of as standing isolated bushes or thorny thickets, often giving rise to habitats akin to those found in countryside hedges. Shrubs and hedgerows offer refuge to a multitude of creatures on land - from nesting birds to fledglings, from adult bugs to their larvae, from butterflies and caterpillars to lizards and small snakes: their role in a



underwater shot from Raja Ampat, West Papua, as Antonella hovers above a very large sea fan at The Passage. Also known as gorgonians, sea fans feature a hard, horny, very flexible structure of many delicate hues. They always grow facing the main current, so to offer a broader feeding surface to the polyps which constitute the colony.

Another



Soft corals belong to many different species and come in many different shapes, colors and textures. The many organisms living among them are equally diverse: clockwise, from top left, a Pygmy Seahorse Hippocampus denise, a well-camouflaged Soft Coral Partner Shrimp
Dasycaris
ceratops,
a tiny Papuan
Cuttlefish Sepia papuensis and a large Lionfish Pterois volitans. Notice the measure of camouflage shown by all.



The coral reefs of the Central Indo-Pacific - the epicentre
of marine
biodiversity can be
dizzingly alive
and colorful. These two wide-angle images - both prominently featuring soft corals and corals and gorgonians among a multitude of sponges, ascidians and hydroids - illustrate the extraordinary richness of the underwater landscape of Raja Ampat, in West Papua.



healthy natural habitat is invaluable. Think of black coral colonies, of large gorgonians, of thickets of fleshy soft corals in the same terms: all-important microhabitats in which an enormous number of small and often defenceless tiny creatures find a home and food, hidden and well-protected from the roving predators which inhabit the reef. Divers who will take the trouble to closely and carefully examine these shrubs of the deep will be regaled with a plethora of amazing sights and fascinating encounters.

#### A COMMUNITY OF CREATURES

Among the countless inhabitants of soft coral colonies, fish are the most easily observed. Most divers are in fact quite familiar with Pixy and Longnosed Hawkfish, Pygmy seahorses and small Cardinals, the latter often hiding among black coral colonies in thick schools. Less easy to observe are several very small, semitransparent gobies which can be seen on wire corals (look out! They'll always jump in a flash to the other side of the colony when you approach them) and soft corals proper, often taking the same color of the fleshy host they live on. Wire corals are also the habitat of choice of several small crabs belonging to the genus Xenocarcinus, many colorful Squat lobsters (Galathea) and shrimp belonging to the genus Hamodactylus or Dasycaris, often

Cauliflower soft corals such as this Dendronephthya colony can be outrageously colorful. Further left, two more common members of the soft coral biotope - a semitransparent Whip coral Goby Bryaninops sp. (top) and a partially transparent commensal shrimp **Periclemenes** brevicarpalis (bottom). Total or partial transparency is often adopted by soft corals symbionts as a defensive strategy.

continued on page 107







Thickly branched and often almost impenetrable, soft corals and sea fans offer refuge from
the threat
of roving
predators to a
multitude of small species.
Far left,
a Whitetip
Reef Shark Triaenodon obesus passes
by a deepwater soft
coral colony;
left top, the
amazingly
camouflaged
Sawblade
shrimp
Tozeuma armatum;
left below,
juveniles and
fry of countless
species often
hide among
soft corals.



107

Black Coral

to the genus

truly look like

underwater

here a Coral

miniata hides

in one on a

reef in the

Maldives.

Far left, two

more species

bushes -

Grouper Cephalopholis

Anthipates

colonies belonging

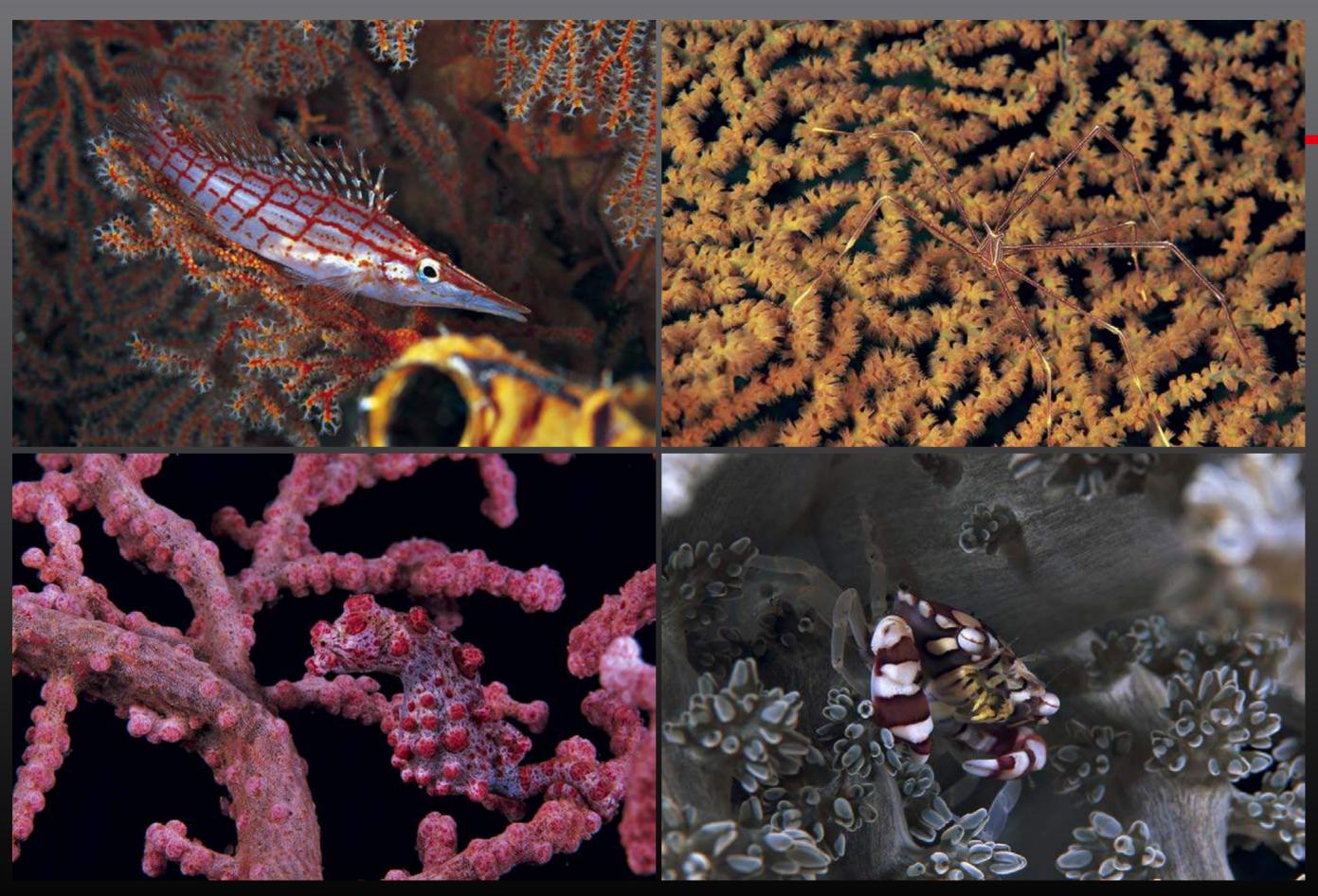
amazingly camouflaged to blend with their perch (some will even sport growths which cleverly mimic the expanded polyps of the coral colony). The most amazing of these however is the spectacular Sawblade shrimp Tozeuma armatum, a colorful long and thin shrimp which looks like a miniature samurai sword and which exclusively inhabits black coral colonies. Always remember to delicately and carefully check large thick colonies of cauliflower soft corals Dendronephthya – it is not uncommon to discover the beautiful Soft coral or Candy crab Hoplophrys oatesii contentedly perching among their inflated branches or on their fleshy terminal "blossoms".

Another wonderful master of camouflage is the bizarre Gorgonian horned shrimp Miropandalus hardingii - so good at its job, in fact, that most divers never see one in their life. Even more difficult to spot and great fun for the specialized photographer are the so-called allied and spindle cowries, several species of which are more or less commonly found on gorgonians and soft corals. These are incredibly well camouflaged and very small seashells which live symbiotically on soft coral colonies, feeding and mating on their hosts: they will often develop warts and papillae on their mantles, mimicking with amazing accuracy expanded coral polyps, literally disappearing on the colorful background they are found on.



commonly found in the soft corals biotope - a tiny Xeno crab Xenocarcinus conicus (top) and a Whip coral partner shrimp **Dasycaris** zanzibarica (bottom). Both species feature stunningly effective camouflage.

continued on page 111

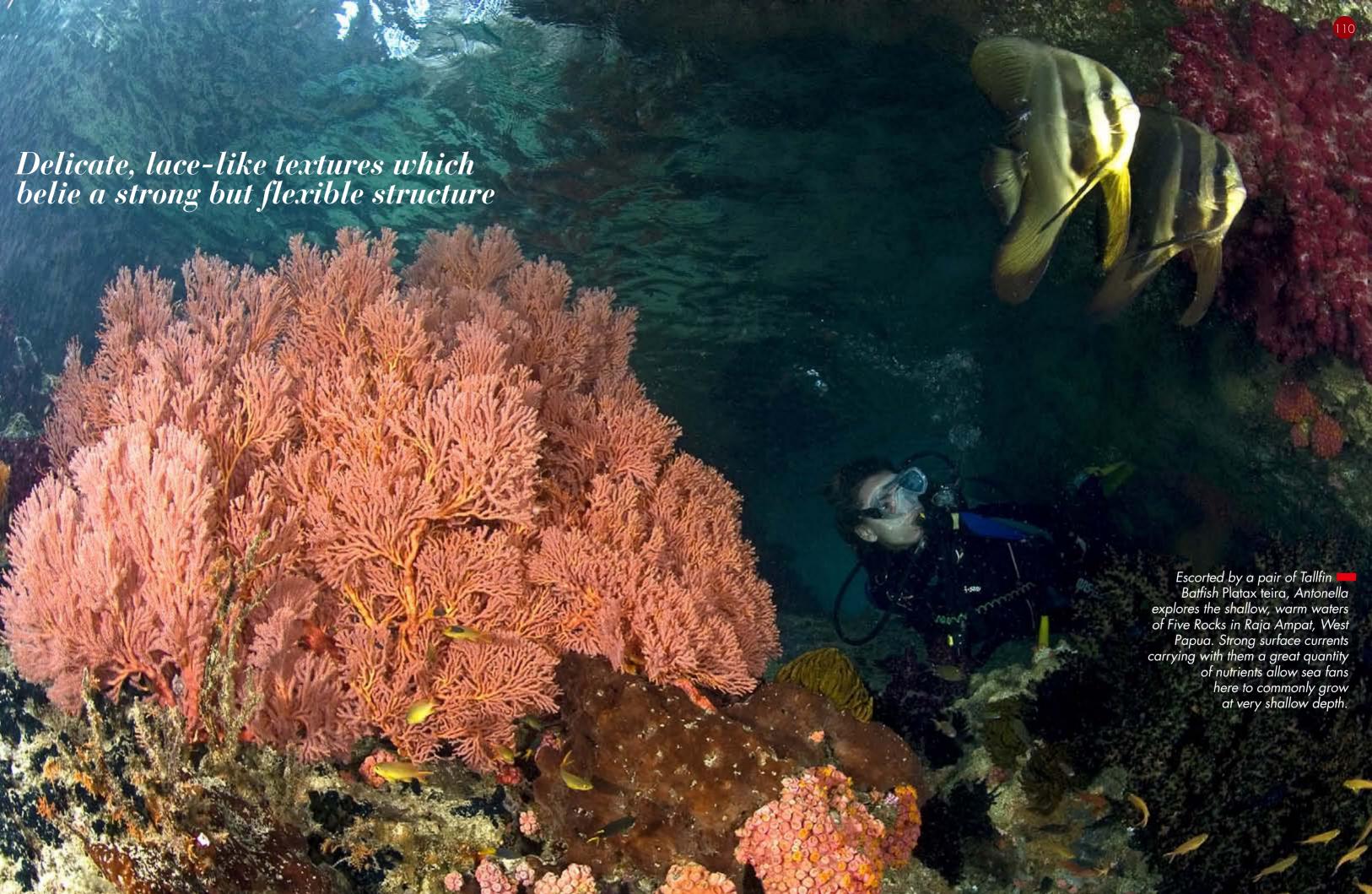


More examples from the soft coral biotope -clockwise, from top left, Long-nosed Hawkfish Oxycirrhites typus,
Spider Crab
Chirostylus
dolichopus,
Porcelain crab Lissocarcinus laevis and Pygmy Seahorse Hippocampus bargibanti. All show extensive use extensive use of mimicry and /or disruptive camouflage to perfectly blend in the soft coral colony environment.





Far left, Antonella hovers above a gigantic sea fan growing at a depth of 60 meters on the reef wall of Layang Layang atoll, in the South China Sea notice orientation of the colony to face the strong, nutrient-rich currents prevalent on reef walls. Left, a cauliflower soft coral is filled with
water and fully
expanded in
the shallow,
warm waters
of The
Channel in Raja Ampat, West Papua.



Lit from behind - taking advantage of the semi-transparent quality of their colonial host - they make wonderful subjects for the discriminating macro photographer.

## THE SECRET IS IN THE LIGHT

Lighting in fact is extremely important when portraying these minute but colorful critters, as their camouflage is so unbelievably good it's almost impossible to spot them in a flatly-lit photo. For those who like abstract shots, several common and very small brittlestars also offer unique chances to compose arty photographs, taking advantage of their colorful snake-like arms sinously draping themselves around the branches of the soft corals. As with all macrolife subjects, it is allimportant to stress once again not to damage the microhabitat on which these tiny and beautiful creatures are commonly found.

Sadly, many over-enthusiastic dive guides will roughly handle and occasionally even damage the corals in their eagerness to show these little inhabitants of the sea to their clients. Restrained and delicate manipulation, preferably using a blunt, thin tool like a pointer, is instead occasionally acceptable, as long as the subjects are not forcibly removed from their host - remember, these are habitat-specific species which are incapable of surviving if separated from their host.







Red luncella Whip Corals usually restricted to deep waters and here photographed near Walea Island in Central Sulawesi. Indonesia offer another variation on soft corals colonies structure and development. Far left, two more inhabitants of the soft coral biotope a Xeno crab Xenocarcinus tuberculatus (top) and a tiny Allied Cowry (bottom). In the lower photo the calcareous spicules which stiffen the soft coral colony are also quite evident.

Far left and hovering in the distance, Antonella is dwarfed by

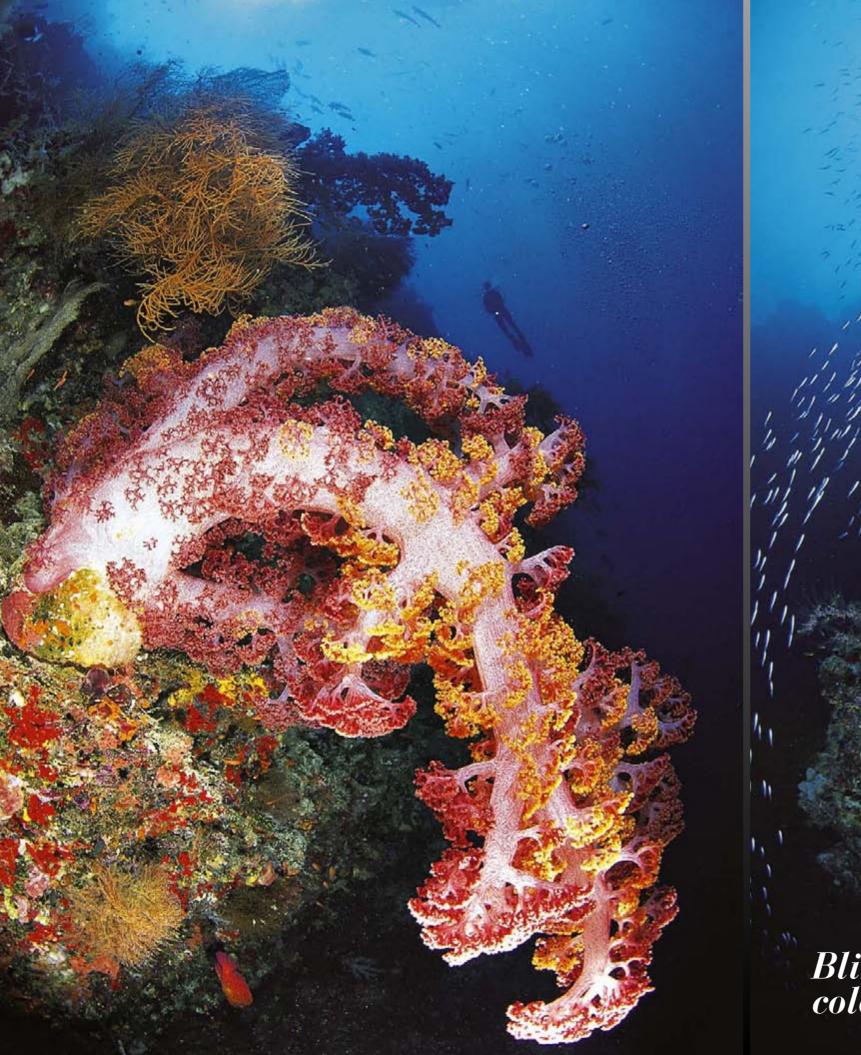
a gigantic Dendronephthya

spanning over two meters at Barracuda Point, Pulau Sipadan, Sulawesi Sea. Left, another soft coral

biotope in the same location,

one of the world's underwater biodiversity hotspots.

colony



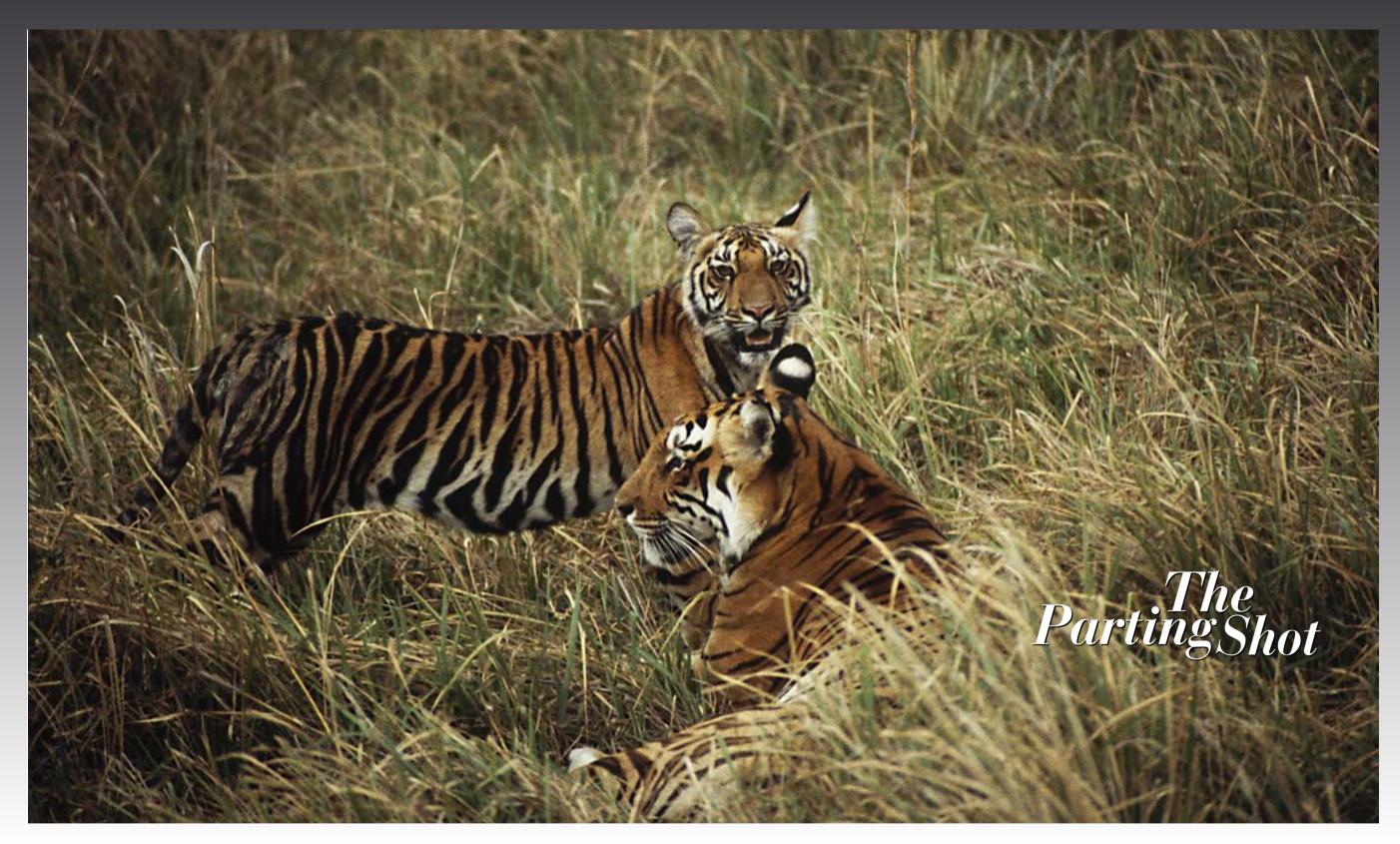






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Its sides rumbling with telluric intensity, our elephant shifts nervously its weight from leg to leg, snorting angrily, as we precariously perch to our makeshift howdah, exposed legs dangling over the sides. "Hutt, hutt" hushes urgently the mahout, kicking hard his naked heels against the elephant's temples, as a liquid pool of amber, black and white a few feet away suddenly coalesces in a huge adult tigress with her yearling cub at the side, lying matronly – but still somewhat intimidating

– in the tall dry grass. She looks at us in ice-cold disdain, but we are very well aware that the playful, inquisitive romping of her offspring might very well result in an unprovoked attack. As our mount perseveres in its battle dance, snorting and half-trumpeting in tiger hate, I try to frame the stunningly beautiful scene in my old 400 ISO Agfacolor-loaded Pentax, fumbling with f-stops, half-dazed with enthusiasm. It's a hot November late afternoon in Kanha National Park, Madhya

Pradesh, India. The year is 1990. Tigers everywhere are threatened with extinction - the WWF, conservationists and celebrities worldwide are rallying in a race against time, "Save the Tiger" is a popular campaign catchline which even becomes the title of a Jack Lemmon movie. We all think we can make a difference – surely this magnificent creature cannot disappear forever and become the stuff of legends. Many years have passed and I wonder today - what has become of our tigers?

# IN ONIMA MUNDI'S NEXT ISSUE No.6, Second Quarter, April 2012



celebration of the amazingly beautiful - and often very dangerous – snakes of Costa Rica



## GHOST ELEPHANTS OF THE ETOSHA PAN

Christopher Rimmer's personal portfolio in black and white – a homage to the ghostly giants of the Namibian desert



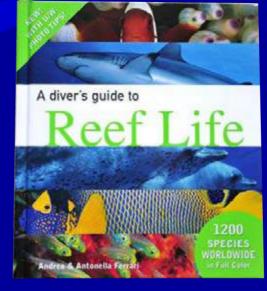
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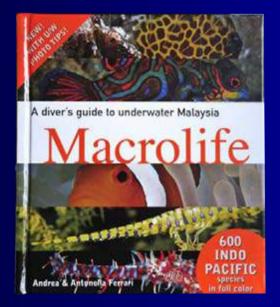
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There is none of the pseudo-art talk that often ruins otherwise beautiful books of photographs. I read it from cover to cover, and it's a great read. The pictures do the talking, and need no talking-up. This 360page volume doesn't have a weak page 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.

