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HAUT & FORT HAUTS-DE-FRANCE

Pas-de-Calais



world 🔵 ocean network





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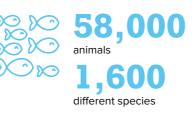
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2nd most visited tourist site north of Paris 220

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One thousand coral cuttings replanted in the Maldives with Reefscapers.



produce of the sea





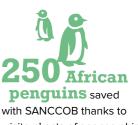












with SANCCOB thanks to the visitors' acts of sponsorship.



Blue Living Lab,

the incubator for innovative projects dedicated to the sustainable blue economy.



OUR MISSION: 30 YEARS AT THE SERVICE OF THE OCEANS

ince it was created in 1991, Nausicaá has been striving to raise everyone's awareness and educate them about the life of the Oceans and their vulnerability. A perpetually evolving aquarium, Nausicaá benefits from the everyday commitment of **its team of 220 employees** to deploy its actions in Boulogne-sur-Mer and around the world. The Oceans - an essential space for our planet's equilibrium - represent 71% of the earth's surface, but they are also the victim of Mankind's actions.

The deterioration of our planet's condition is now a fact acknowledged by everyone. It is sparking a growing civic mobilisation. Each one of us has a role to play. Because the **Oceans, climate and human life are closely interlinked** and each day it becomes more urgent to defend our marine environments. **That is Nausicaá's raison d'être**.

The richness of the exhibitions proposed and the presence of 58,000 living species position Nausicaá as a vector of knowledge and understanding of the Oceans. Thanks to its educational and scientific expertise Nausicaá aims to make committed players of its thousands of visitors.

FROM THERE, COMING TO NAUSICAÁ MEANS ACTING, BECAUSE YOUR EXPERIENCE OF THE OCEANS STARTS HERE.

Nausicaá is a committed enterprise that contributes to a public service mission entrusted to it by the Boulogne Urban Community. Economically, Nausicaá plays an essential role in the attractiveness of Hautsde-France region for tourists, and in its vitality. Scientifically, Nausicaá develops reproduction programmes that benefit other aquariums, natural spaces and, more generally speaking, humanity's heritage. Lastly, educationally, Nausicaá is a partner of the French Department of Education and fosters an awakening of the students' civic awareness.

Faced with the urgency of the situation, Nausicaá also aims to mobilise the commitment of a whole region. Fishermen, teachers, consumers and inhabitants unite to adopt reflexes that will guarantee a **sustainable management of the Oceans**, as proposed, for instance, by the Mr. Goodfish programme. We believe that each one of us can, in our own way, contribute to protecting the marine ecosystem to allow it to flourish. By federating all these players, **NAUSICAÁ EMPOWERS THEIR COMMITMENT TO THE OCEANS**.

Beyond an educational and scientific experience, the creation of a community of commitments, Nausicaá takes on the role of influencer in the struggle to preserve the Oceans by each year accomplishing useful initiatives that have an impact. From the beaches of Boulogne-sur-Mer to those of South Africa, from the region's schools to scientific circles, from the Boulogne Urban Community to the UN General Assembly, NAUSICAÁ HAS AN IMPACT ON THE FUTURE OF THE OCEANS. That is what Nausicaá has pursued as a co-founder of the World Ocean Network and as one of the instigators of the large-scale celebration that is World Oceans Day, and as the main architect of its official recognition by the United Nations, but tomorrow we must go even further.

For 30 years, Nausicaá's actions have played an active part in the defence of a cause, that of the protection of an asset shared by humanity as a whole. It is the pride of its team and of its partners to be at the service of this cause every day. Tomorrow, Nausicaá's ambition is to **transform this experience into a commitment so that each citizen can become aware of its influence**. With them, **NAUSICAÁ HAS THE OCEANS IN COMMON**.





DIFFERENT PERSPECTIVES



DOMINIQUE GODEFROY, CHIEF EXECUTIVE OFFICER OF NAUSICAÁ:

Nausicaá is of course and above all a place of discovery, awareness-raising and preservation. But it is also a centre of scientific excellence.

With its exhibitions and conferences, it is one of the largest European sites dedicated to knowledge of the maritime world and the ties that bind it to Mankind, attracting visitors and scientists from the world over.

Nausicaá is also a veritable hive of innovation with the Blue Living Lab, a place that opens its arms to players in the blue economy.



FRÉDÉRIC CUVILLIER, MAYOR OF BOULOGNE-SUR-MER, PRESIDENT OF THE BOULOGNE **URBAN COMMUNITY. AND FORMER MINISTER:**

Besides its economic success, Nausicaá has conquered the hearts of the people of Boulogne, over the years becoming a source of local pride and, today, is fully part of our heritage.

Since the first stone was laid through to completion of the 10,000 cu.m big tank, a veritable technological feat, Nausicaá has become a project that matches the ambitions of the people of Boulogne.

Besides the considerable economic and tourist benefits for the Côte d'Opale, the French National Sea Centre is

also a worldwide ambassador for the sea, an incredible tool at the service of a noble cause: preserving the Oceans and contributing to the struggle against global warming.

The last few months have been difficult for our inhabitants, shopkeepers, and tourism professionals. In 2021, we are delighted to see the reopening of Nausicaá which will make it possible to boost the dynamics of our region's tourism and contribute to raising the awareness of as many people as possible regarding the challenge, more essential than ever, of protecting our oceans.



CHRISTOPHE SIRUGUE. **GENERAL MANAGER OF NAUSICAÁ:**

Nausicaá, is an incredible human adventure, an odyssey that began 30 years ago and which has resulted today in the largest aquarium in Europe in which a team of 220 enthusiasts work.

Since its creation, Nausicaá has undertaken the task of making known the wealth of our oceans, and the species that inhabit them, by presenting their habitat and encouraging their preservation.

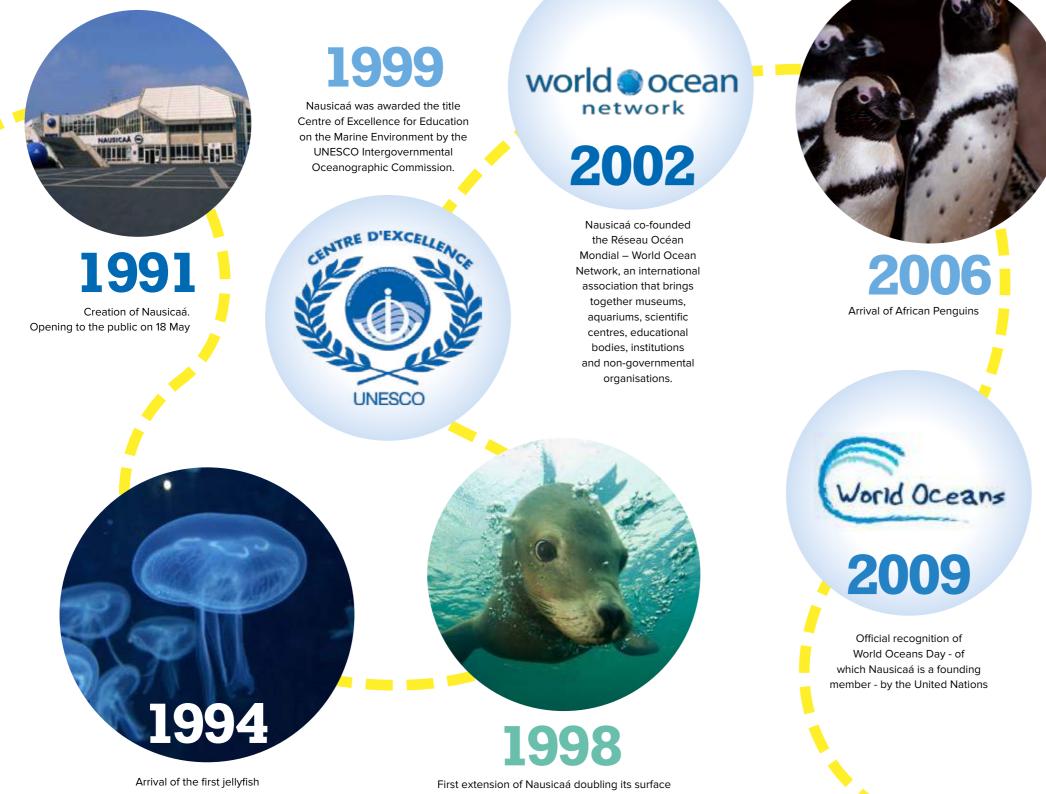
It is also a place of intergenerational amazement. Since its opening in 1991, more than 18 million visitors have discovered Nausicaá and have been made aware of the need to preserve our oceans.

In the current context of climate change, and with the approach of COP26 in Glasgow in November 2021, Nausicaá's mission takes on a special importance this year. More than ever the role it plays in research, mediation and dissemination is important for helping to ensure that mankind's impact on the environment is better taken into account

We are delighted to be able to celebrate this year that is so special for us with our visitors who we can at last welcome back after this long period of closure owing to the pandemic. Our mission remains the same: creating a unique experience around the Oceans with new exhibitions, original events and, of course, new species to be discovered!



30 YEARS : THE NAUSICA Á ODYSSEY



area to 4,500 sq.m of exhibition space.

2021

Nausicaá celebrates its 30th birthday.

Retirement of Philippe VALLETTE, Nausicaá's Executive Director. Arrival of Christophe SIRUGUE.

2020

Immersive "In the Eye of the Climate" exhibition

2018

Second extension of Nausicaá which changes dimension to become the largest aquarium in Europe.

2010

Official launch in France of the Mr.Goodfish campaign, a European programme for the responsible consumption of the produce of the sea involving all of the sector's players, from the fishermen to the consumers, not to mention the fishmongers and the restaurant profession.



LIVE AN IMMERSIVE AND SENSITIVE EXPERIENCE

Coming to Nausicaá, means living a total immersion in the maritime world thanks to its interactive experiences and exceptional exhibitions. It also means sharing an intimate relationship with water, in perpetual movement. Immersion in the High Seas, embark on a grand tour of the world's seas or plunge into the eye of the climate, welcome to Nausicaá!

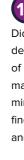


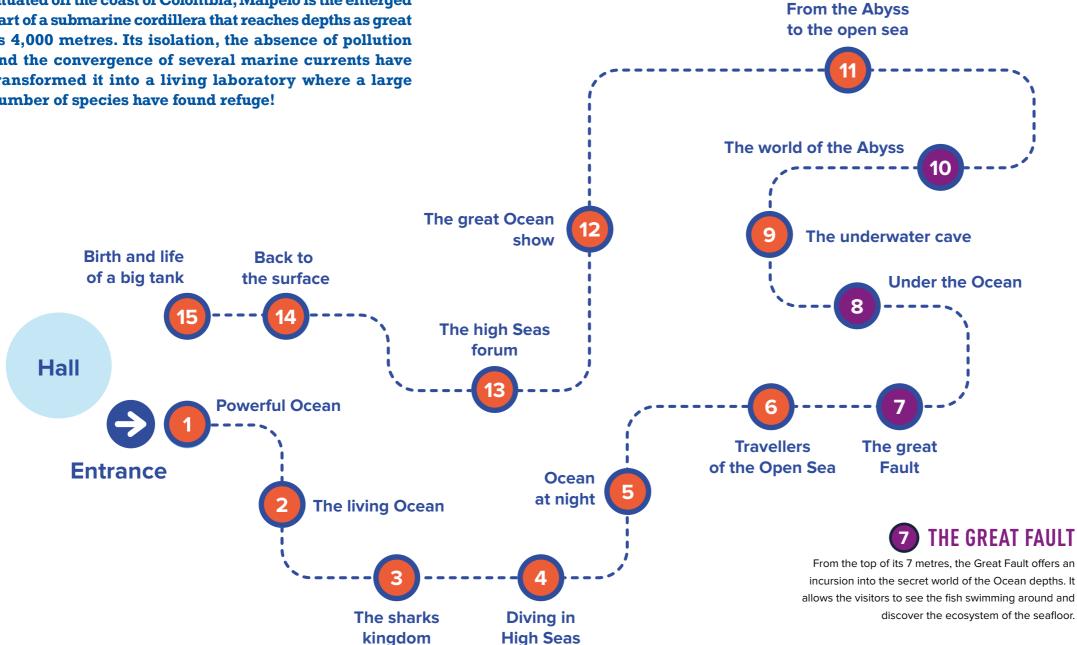


Inspired by Malpelo Island, "Journey on the High Seas" is an invitation to discover one of our planet's last unexplored territories.

Situated off the coast of Colombia, Malpelo is the emerged part of a submarine cordillera that reaches depths as great as 4,000 metres. Its isolation, the absence of pollution and the convergence of several marine currents have transformed it into a living laboratory where a large number of species have found refuge!







110 THE WORLD OF THE ABYSSES

Did you know that two thirds of the world's surface is at a depth of more than 2,500 m, but that only a tiny fraction of it has been explored? However, the seafloor has many hidden treasures: unknown species and precious minerals could offer solutions for the future if we could find a way of exploiting them in a profitable, sustainable and responsible way.





Who has never dreamt of wandering around amongst sharks, shoals of fish and manta rays? A unique experience to be lived as you pass through the tunnel more than 18 metres long.



The great Ocean show

the great manta ray.

BEHIND THE SCENES OF THE BIG TANK

The keepers' beach, fish kitchens, aquariological reserves, filtration unit, ... Take a look behind the scenes at Nausicaá! For an hour, the visitors can watch the daily meeting between the keepers and the fishes of the High Seas. And, to go further, they can also learn more about this tank's technical aspects and technological feats.

Through this immense bay the visitors are completely immersed in the depths of the High Seas, as close as they can get to the rays, shoals of fish and sharks.

Breathtaking: 20m long, 5m high, 54 tonnes, you quickly forget the technical feat that has allowed us to present to you the ballet of the 40 species that populate the biggest tank in Europe. Amongst them, sandbar sharks, batfishes, sardines, guitarfishes, eagle rays as well as



The animals of the High Seas

MANTA RAY

An emblematic animal of the High Seas, the biggest ray in the world, the manta ray can reach a length of 8m and weigh as much as 1.8 tonnes. It lives in reefs, close to the surface, between a depth of 0 and 1,000m. The great manta rays get together at the highest points, where the currents carry the plankton they feed on. They complete their food with small fish and crustaceans.





STINGRAY

In October 2020, two giant black-spotted stingrays joined the big tank for the "Journey on the High Seas" exhibition. Bravo, the biggest ray has a span of 1.5m for a length of 2.6m and weighs 120kg; Delta has a span of 1.20m for a length of 2m and weighs 60kg. This ray has a round body and a poisonous sting at the end of its tail.

GIANT GROUPER

The giant grouper is a marine species that lives mainly in coral reefs, lagoons and caves. The giant grouper is hermaphroditic. It can change sex according to the reproduction needs. This flexibility makes it possible to maintain a balance in the population.



BROWN JELLYFISH

Right from the beginning of the tour, give in to the enchantment of the fascinating show offered by the golden jellyfish. They grow in the cool waters of the north Pacific, but they also appreciate warmer waters. The golden jellyfish is also nicknamed the "sea nettle" owing to the microscopic 'hairs' that cover its tentacles.

> "Since 1995 and the birth of the first baby jellyfish, we have acquired an acknowledged experience for raising jellyfish. Today, we are a breeding and rearing site, thereby meeting the Centre's needs. For example, the golden jellyfish originating in California, grow in the reserve and join the exhibition tank once they have reached the required size. Unlike the other jellyfish, these ones are particularly voracious; they feed several times a day on fish eggs, bits of fish and shrimp."



Sharks and rays, endangered species that need protecting

More than forty species of fish, sharks and rays live together in the High Seas tank. Each one can find their own place! If the sharks and rays fascinate us so much, it's quite simply because these two species are so impressive and majestic! The reduction in the numbers of these species is causing an imbalance in the ecosystems which is further contributing to their gradual disappearance. Nausicaá supports a number of initiatives in order to preserve these two essential species.



SUPPORT THE FONDATION MALPELO, A MARINE SANCTUARY OFF THE COAST OF COLOMBIA



The veritable source of inspiration for the "Journey on the High Seas" exhibition, Malpelo Island is home to a vast marine sanctuary, inhabited by an incredible variety of species. Sharks, rays, groupers... the list of marine animals that live in this Marine Protected Area is long!

Created in 1999 by the Franco-Colombian biologist Sandra Bessudo, the Fondation Malpelo's mission is to promote the protection of Colombia's marine and coastal ecosystems, and the sustainable use of natural resources. NAUSICAÁ contributes to the research and preservation initiatives around hammerhead sharks led by the Fondation Malpelo by providing its financial support and the skills of its teams. NAUSICAÁ and its Endowment Fund are also committed to raising funds to support these initiatives, and promote them to inform and raise the awareness of as many people as possible regarding the protection of hammerhead sharks.

PRESERVING THE MANTA RAY WITH PLANETA OCEANO





The manta ray is an emblematic yet very vulnerable species. It is thought that one of the largest populations of this species in the world migrates from Ecuador to the waters of northern Peru, where it is the victim of accidental fishing. This threat, combined with this population's low level of reproduction, endangers its conservation despite the measures taken to protect it.

Since 2007, Planeta Oceano has been working for the conservation and restoration of the coastal and marine environments, in particular off Peru and for manta rays. In the framework of its mission, the association carries out research aiming to improve our understanding of this species' spatial ecology, in other words, the link between manta rays and their environment (movements, behaviour, habitats, etc.). The association also develops research, educational and awareness-raising initiatives regarding the environment by seeking the involvement of the local communities and players. Nausicaá and its Endowment Fund are committed to showcasing the initiatives of Planeta Oceano to inform and raise everyone's awareness of the importance of preserving manta rays, and to raising funds to support this association's research works.



STUDYING WHALE SHARKS WITH THE MEGAPTERA ASSOCIATION

Since 2016, Nausicaá's teams have taken part in the missions organised by MEGAPTERA to study whale sharks in the Gulf of Tadjourah in Djibouti. The whale shark is the largest fish in the world, but also one of the least well-known.. It is harmless to humans, but today, it is threatened with extinction. From November and throughout the southern hemisphere's summer, whale sharks gather along the coast of Djibouti in Africa, in particular, where there are large concentrations of plankton. For scientists, this offers a perfect opportunity to study these animals close up.



QUESTIONS TO LUDWIG COULIER, KEEPER AT NAUSICAÁ

You have already taken part in missions with MEGAPTERA to study whale sharks. Why is this important for Nausicaá?

"These missions allow us to broaden our knowledge of these whale sharks' habitat and movements, and also to raise the public's awareness of the disappearance of sharks in general."

What is the goal for this mission?

"During this expedition week, we also took advantage of the dives to photograph the whale sharks in order to identify them. And we place beacons on them making it possible to transmit data by satellite when the shark comes up close to the surface. These data tell us where the animal is and gives us the temperature of the water there."

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2-MANKIND **AND SHORES**

Mankind and the Sea, a relationship which goes back to the dawn of time and one that we are not going to see disappear any time soon! With the "Mankind and Shores" exhibition, Nausicaá invites you on a journey to discover biodiversity, distant ecosystems and the many services rendered to Mankind by the sea. Ready for a great tour of the world's seas?



STOPOVERS IN THE MEDITERRANEAN

In order to reproduce the depths of the Mediterranean as accurately as possible, the





To learn more about the composition of marine biodiversity, there can be no doubt: you must set out to explore the tropical lagoon. In this paradise of marine biodiversity, there are hundreds of brightly coloured tropical fish swimming around side by side.



TOUCH TANK

You want to live an unforgettable experience taking you as close as possible to the Oceans? The touch tank is designed to enable direct contact between humans and animals. You just have to move your hand close to the surface of the water to stroke the pollack, cat shark ... And if you're lucky: the rays. They really are very affectionate !





The animals in Mankind and Shore

JELLYFISH

There are jellyfish everywhere at Nausicaá, or nearly! Present since 1994, the first baby jellyfish were born at Nausicaá in 1995 and since then Nausicaá has developed its expertise in the reproduction and raising of jellyfish. More than ten different species of jellyfish are born and grow in Nausicaá's reserves.

SPECTACLED CAIMAN

The spectacled caiman lives in still fresh waters, marshes and slow-flowing rivers in tropical forests. They are at the heart of the submerged forest! Did you know? At Nausicaá they are fed with chicken and fish, just twice a month. And for the record, caiman have adapted well to the many different changes of climate, because they still live where they already were in the days of the dinosaurs!

CORAL

Coral, the planet's greatest builder, is a fragile, endangered living being. At Nausicaá, the various tanks and aquariums are home to more than 70 species of coral. This unusual animal is made up of tiny individuals that together form the reefs and live in symbiosis with microscopic algae. Despite its plant-like appearance, coral is actually an animal.

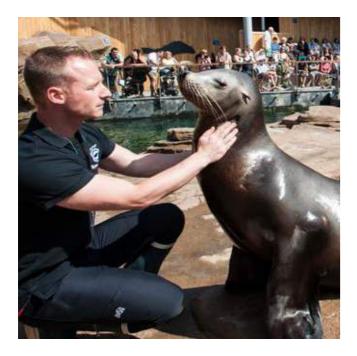
ZEBRA SHARK

They live mainly in the Indian and Pacific Oceans, close to coral reefs. They can be found down to depths of 63 metres but usually between 5 and 30 metres. They spend nearly the whole day lying on a reef, amongst the coral. They feed on shellfish, small fish and crustaceans. The zebra shark can grow to a length of 2.40 metres. Harmless to humans, you can even get up very close to them. This is an oviparous species: the female lays 2 to 4 eggs in envelopes between 15 and 20 cm long.

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Californian sea lion, symbol of Nausicaá's expertise

Hunted for their fur and meat, sea lions were nearly driven to extinction! In 1980, the Îles du Détroit National Park was created to protect them and today, thanks to the marine reserves, many species are now protected. As for sea lions they are a species protected by the Washington Convention.



As early as 1998, Nausicaá chose to take some in and thus became the only European centre to present them. All the sea lions were born in European zoos that are partners of the programme. Since then the Centre has never ceased to work for the preservation of this species and has developed real scientific expertise on this subject. Nausicaá has become the benchmark on the international level regarding the medical training of sea lions, thus earning the Centre and its team of handlers a number of international awards, notably from the International Marine Animal Trainers Association (IMATA).

PROTECTING THE CÔTE D'OPALE'S MARINE MAMMALS WITH CMNF



Harbour seals, grey seals, porpoises, dolphins... the marine mammals in the waters of the Côte d'Opale are the sign of an exceptional biodiversity and attract large numbers of tourists and nature lovers. For the specialists, these animals also illustrate the good health of the Ocean, hence the importance of observing and studying them. This mission is at the heart of the initiatives of the Coordination Mammalogique du Nord de la France (CMNF) association, present since 1993 in the Nord and Pas-de-Calais areas. Equipped with telescopes and cameras, the volunteers scour the coast looking for mammals, to study them and, sometimes, to come to their assistance when these animals are in difficulty.

Nausicaá and its Endowment Fund are committed to raising funds for supporting the CMNF's research works and to showcase these initiatives to inform and raise the awareness of as many people as possible regarding the protection of marine mammals. " Our sea lions live in a reserve entirely dedicated to them. We look after their physical and mental well-being by proposing a variety of activities during the day. For their health, they undergo medical training that consists of asking them to allow us to handle them to brush their teeth, listen to their heart beat, treat any small injuries they may have, or even take an X-ray or ultrasound scan. Other work sessions consist of getting them to exert themselves physically, by reproducing their natural behaviour such as jumping. Lastly, we stimulate their mental capacities by teaching them to recognise letters and shapes.

Jean-Luc Bourgain, sea lion keeper





WELCOME TO KAI AND MOANA!

In the framework of the European Zoos and Aquariums Association's Eaza-Ex-Situ Program (EEP), Nausicaá has welcomed two female eared seals. After a period of quarantine, they will join the five males already present here.

The first eared seal, Kai, arrived from Parc Astérix on 15 March. Her transfer was carefully planned and was carried out under optimum conditions, notably thanks to the geographical proximity of Parc Astérix and the close collaboration between the teams of keepers. As for Moana, the second eared seal, she will by joining Nausicaá in September, from Duisburg zoo in Germany.



An immersive & sensory experience: "In the eye of the climate"

Melting ice caps, rising sea levels, hurricanes, fires... the climate is a major preoccupation for Nausicaá, because the Oceans are at the heart of the gigantic global climate machine. With its new exhibition, "In the eye of the climate", The French National Sea Centre proposes a tour to its visitors taking them through the heart of the climatic events that we are experiencing on a daily basis. Highlight of this exhibition: a spectacular sensory immersion unique in the world to discover and experience the consequences of global warming. More than ever, Nausicaá calls out to its visitors regarding their power to act: the future of the Oceans and of our planet is in our hands!

The visitors will be amazed by this new exhibition as soon as they come into Nausicaá's entrance lobby with the sight of a house on the point of falling off a cliff, the striking consequence of coastal erosion. The climatic upheavals are very real and are experienced on a daily basis, whether from their home with the living room of a house on the coast, or in a polar landscape in Greenland or in the forests of South America. The tour continues with the discovery of endangered species: penguins, jellyfish, coral, ... they are all suffering from the effects of global warming. At the end of the exhibition, the visitor will discover that solutions exist for preserving the environment and living more ecologically: they become players and in turn have the power to act!

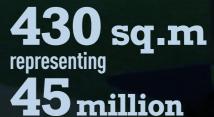
NAUSICAÁ PRESENTS "SENTINELS OF THE CLIMATE"



An exhibition of some twenty photographs taken by the Belgian photographer-adventurer Christian Clauwers. An icy storm-swept landscape, a penguin colony, icebergs of every shape and size... his photos show the landscapes of these regions from the end of the world that are undergoing these profound changes. This man calls himself a "world nomad" and he battles to raise awareness, inspire and mobilise public opinion on the subject of climate change by sharing his photographs. With this exhibition, Nausicaá and Christian Clauwers invite the visitors to take a journey, and also and above all to think about the species and natural environments that are today threatened by climate change.



A projection surface on the floor and walls:



pixels

The African Penguin, an endangered b

Nausicaá has been showing penguins to the public since 2006. In more than 15 years, more than twenty chicks have been hatched in the framework of the European penguin breeding programme. Excellent news for this endangered species. Once they are autonomous, the young penguins join the colonies in the other centres to broaden the conservation programme and thus preserve the genetic diversity of the different colonies.



NAUSICAÁ SUPPORTS SANCCOB

Nausicaá supports SANCCOB (Southern African Foundation for the Conservation of Coastal Birds) which works for the preservation and rehabilitation of oil-coated, injured, sick and orphaned marine birds. Present in South Africa, SANCCOB essentially takes care of African Penguins. This association also carries out research, training and awareness-raising actions to enable the African Penguins to build up their colonies: every year they care for a thousand penguins and release them to their natural habitat!

Nausicaá and its Endowment Fund are also committed to raising funds to support SANCCOB's initiatives, and promote them to inform and raise the awareness of as many people as possible regarding the protection of African Penguins. The donations collected at Nausicaá have already enabled SANCCOB to save 200 penguins, some of which have been released by the Nausicaá teams on the spot. These donations also make it possible to raise awareness regarding conservation through environmental education and to take part in research projects.

DID YOU KNOW?

At Nausicaá, each penguin is given a name, formed with two syllables at the most, that it will quickly recognise, and this has been found to be very useful when the keeper wants to communicate with them. The names of Nausicaá's penguins are always related to the sea, South Africa or simply these birds characteristic attitude.

The African Penguin lives in South Africa and is a particularly vulnerable species in the face of the threats posed by human activities. Because of climate change, the fish that the penguins feed on are moving further away from the Cape, and overfishing reduces their number too. The parent penguins must therefore swim further and further away to catch the fish they need to feed their young and many of the chicks die awaiting their parents' return. Oil pollution, tourism and its coastal constructions, not to mention accidental captures linked to fishing have severely impacted their population. Predators such as seals, sharks and land animals are also a threat to this vulnerable species that depends on humans for its conservation.

Constance. penguin keeper at Nausicaá





Fewer than **2** % of the African penguin population in their natural habitat.



D 22 adult penguins.



More than twenty chicks hatched at Nausicaá since 2009



A COMMITTED TEAM OF 30 YEARS STANDING

There are 220 committed people who breathe life into the Nausicaá adventure on a daily basis. From welcoming the visitors to caring for the animals, not to mention creating exhibitions and events, hosting school visits: meet the technical and administrative professions, the people who make Nausicaá tick.





AQIA CLUN























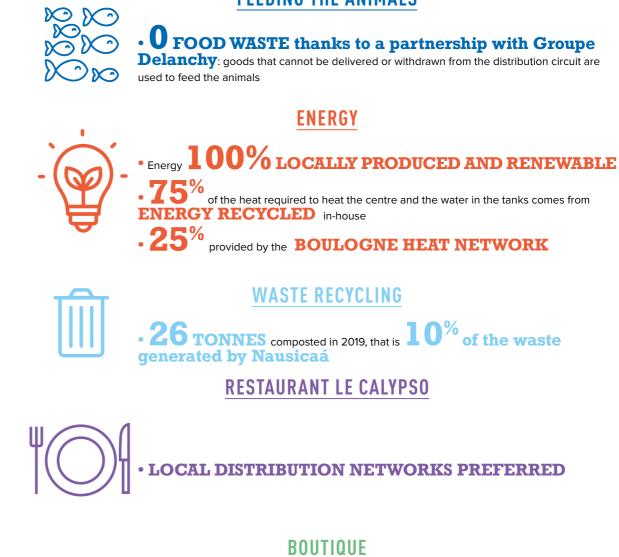






Un engagement quotidien pour l'Océan

Nausicaá is an enterprise that is committed to the future of our planet. In 30 years, it has established itself as a major player for raising awareness of the marine environment. And if the French National Sea Centre encourages its public to act, the same goes for all of its teams! In 2018, Nausicaá therefore committed itself to a CSR approach in order to deploy sustainable development practices. From the tanks to the restaurant, including the boutique, everything is done to ensure our activities are responsible, ethical and sustainable. In 2020, the Centre also took part in the construction of the Fondation de la Mer's Ocean Benchmark to put in place targeted actions and indicators to measure and reduce its impact on the marine environment.





• A range of textile products and publications A ZERO WASTE range Products MADE IN FRANCE.

FAIRTRADE AND RESPONSIBLE ECO-RESPONSIBLE PACKAGING

MOBILITY



1/5 of Nausicaá's vehicles are ELECTRIC

MAINTENANCE



 All the cleaning products are **RESPECTFUL OF THE MARINE ENVIRONMENT**

FEEDING THE ANIMALS

U FOOD WASTE thanks to a partnership with Groupe

Delanchy: goods that cannot be delivered or withdrawn from the distribution circuit are

of the heat required to heat the centre and the water in the tanks comes from

provided by the **BOULOGNE HEAT NETWORK**

• 26 TONNES composted in 2019, that is 10% of the waste

LOCAL DISTRIBUTION NETWORKS PREFERRED

RESPECTFUL OF THE MARINE ENVIRONMENT

The staff have **E-BIKES** at their disposal for getting about



The aquariology department: passionate keepers

At Nausicaá, 30 keepers passionate about their jobs take care of the animals' well-being, while offering the visitors the best observation conditions and the most fascinating information. Cleaning the glazing, preparing the meals, feeding, water quality control, diving in the tanks, raising and taking cuttings are all part of the tasks that keep the aquariology teams busy every day.

FEEDING AND À LA CARTE CARE

Feeding time is a special moment that makes it possible to check that the animals are in good health, gain their trust so you can get closer to them and thus monitor their growth. When it comes to feeding, the keepers assess the animals' needs by putting in place a system of consumption monitoring, organising weighing sessions (measurement, sorting, census-taking) and varying their meals. They raise plankton to feed the new-born animals and the jellyfish. They also deal with their everyday care: administering treatments, calculating doses, planning preventive treatments, ... and all this coordinated with the Aquariology manager, under the control of the vet who works with the establishment.

TANK MAINTENANCE

The keepers watch over the proper functioning of the aquariums, and the quality of the water. They clean all the tanks (the glass on the animal side, walls, decors, etc.) and carry out the little jobs fitting out the aquariums and maintaining the small items of aquariological equipment. In the case of the big tanks, these tasks may involve diving.

RELATIONS WITH THE PUBLIC AND PROFESSIONALS

At Nausicaá, the keepers have to meet the visitors and organise events such as feeding the animals (every day, Nausicaá proposes a range of events: feeding the sharks, tropical lagoon, dives, etc.).

They also take part in specialist congresses in order to learn about the latest developments in the area of animal care, and to discuss their experiences with other professionals.

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DID YOU KNOW?

In order to carry out this work, all the divers have obtained a professional diver qualification ("class 0" level granted by the French National Professional Diving Institute).



A team dedicated to exhibitions

"Island stories" in 2011

NISTURES-

HISTOIRES DILES

AND

Some fifteen exhibitions have been organised at Nausicaá since 1991. Among the seventeen million visitors who have discovered and walked through these precious projects, not many know that there is a dedicated team working behind the scenes to run them. From the initial idea to its realisation, putting on an exhibition ... Well that's a long story! The exhibitions at Nausicaá are based on a scientific finding with the goal of examining the major ecological challenges related to the Oceans. The content is developed with the expertise of specialists in the area being addressed. Our previous exhibitions have thus led us to collaborate with TARA Océan, Météo France, IFREMER and UNESCO's Intergovernmental Oceanographic Commission among others. "Ocean and Climate" in 2015

In order to create the written and visual content, the Exhibitions team relies on the know-how and resources of the Nausicaá Learning Centre. The documentalists search through their databases and through their networks for the most relevant information and visuals and submit them to the Exhibitions department.



THERE ARE SEVERAL KEY STEPS BEFORE ARRIVING AT THE FINAL PROJECT:

- determining the exhibition's concept, along with its scenographic and aquariological programme,
- finding the partners and right contacts,
- choosing and launching the search for the animals,
- making the content that will feed the exhibition,
- and, lastly, setting up the exhibition.



Births at Nausicaá

Nausicaá is a marine biodiversity conservatory: more than 2,000 animals are born here every year. These births are part of the European inter-aquariums breeding programmes for endangered species such as the African Penguin, Bluespotted Ribbontail Ray, Guitarfish, Epaulette Shark and Zebra Shark.

ZEBRA SHARKS

Three baby zebra sharks were born between July and December 2020. These births were an event for this species listed by IUCN (International Union for Conservation of Nature) as being endangered in its natural habitat. It was also good news for the European conservation programme, of which they are part.





GUITARFISH

Since 2009, 50 guitarfishes (a species threatened with extinction in its natural habitat) have been born at Nausicaá. Placed in a nursery once they are born, these babies are the subject of the keepers' special attention. Thanks to the team's expertise and know-how, the guitarfishes are then moved to the big tank or are entrusted to partner aquariums in the framework of a European breeding programme, which is coordinated by Nausicaá.

Nausicaá's African Penguin colony comprises 22 birds, most of which live as couples. Since 2009, the keepers at Nausicaá have observed the hatching of 23 penguin chicks. These hatchings are part of a European breeding programme that aims to preserve this species that is endangered in its natural habitat. The young penguins are sent to other partner conservation-programme establishments to enlarge the colonies and maintain genetic diversity.





JELLYFISH IN THE NURSERY

PENGUINS

Gracious, diaphanous, but as fragile as coral, jellyfish need protecting. These marine animals, 95% made of water, are major players for ensuring a good balance in the Oceans by regulating the plankton populations. Over the years, Nausicaá has acquired confirmed skills in the area of controlled breeding and the large-scale production of jellyfishes. The acknowledged know-how of the keepers has enabled the French National Sea Centre to become a supplier for a large number of institutions such as, for example, the Lisbon Universal Exposition in 1998.

Nausicaá, coral breeding expert

Today, two thirds of the world's coral reefs are seriously endangered. But they play a fundamental role in balancing biodiversity and constitute a shield against violent natural phenomena. There is an extraordinary garden hidden within the aquarium reserves of Nausicaá, a coral nursery. For more than 20 years, the French National Sea Centre has developed its expertise in the production of coral and raises 70 different species, which makes it the leading coral producer in Europe.

THE ART OF CORAL PROPAGATION

Starting from a few coral shoots divided up and attached to supports using a non-toxic resin, the keepers take a large number of cuttings which develop in the reserves and are then transplanted to the exhibition's coral bed where they develop harmoniously thanks to the care they receive each day. Corals need light in order to grow. They are therefore transplanted to a large south-facing glass canopy overlooking the lagoon. Additional light is provided by special lamps that are used to light monuments and stadiums.





WITH REEFSCAPERS, NAUSICAÁ SUPPORTS THE RESTORATION OF CORAL REEFS

For more than 10 years, Nausicaá has been supporting the Reefscapers association whose number-one goal is to restore the coral reefs of the Maldives. In 2019, thanks to the sponsorship of Nausicaá 10 coral structures were installed at Landaa Giraavaru in the Maldives, representing 700 reconstituted coral colonies. These new colonies are monitored regularly by the biologists on the spot to check they are developing properly.



Ten years in favour of a more sustainable consumption of seafood products

The European Mr.Goodfish programme, which was launched in March 2010 in France by Nausicaá, the French National Sea Centre, in Italy by the Acquario di Genova and in Spain by the Finisterrae Aquarium, raises public awareness regarding sustainable seafood consumption. Each season, the Mr.Goodfish programme publishes a list of products of the sea that are recommended by marine resource specialists. The goal: inform consumer choice and preserve fragile seafood stocks by consuming other stocks that are available in abundance. And to take things further at the time of its birthday, there is a space dedicated to it at the end of the "Mankind and Shores" exhibition.





RAISING THE VISITORS' AWARENESS OF THE BENEFITS OF RESPONSIBLE CONSUMPTION

To celebrate the 10th birthday of the Mr.Goodfish programme, Nausicaá gives prominence to a new space dedicated to sustainable consumption at the end of the "Mankind and Shores" exhibition. At the heart of this reinvented scenography, the visitors can interact with a Digital Food Bar. The choice made by the visitor-consumer at the stall has the power to influence the sea produce sector as a whole, and encourage a more responsible type of fishing. By following Mr.Goodfish's recommendations according to the seasons and stock levels, it is a whole sector that strives to preserve this resource.

DID YOU KNOW?

If every person in France ate a species recommended by Mr.Goodfish just once a year, 20,000 tons of endangered species could be saved.



2,400 MEMBERS OF MR.GOODFISH FOR A SUSTAINABLE CONSUMPTION OF THE PRODUCE OF THE SEA

Mr.Goodfish's selection criteria were established in France in partnership with IFREMER. They are four of these rigorously scientific criteria: the resource's stock level, the size, season and status of the species according to the latest notifications of the ICES (International Council for the Exploration of the Sea) on the stock levels that are issued every year. Since 2017, the Mr.Goodfish programme has also been making recommendations concerning the produce of fish farming, meeting three criteria: feed, rearing practices and impact on the environment.



A PARTNER "Shoal of Fish"

Recognising Mr.Goodfish, it's easy! Mr.Goodfish is represented by a blue logo affixed to the labels of fishmongers' stalls and to restaurant menus; it is also displayed by all the professionals involved in the initiative.



MR. GOODFISH ON YOUR SMARTPHONE

Opting for responsible fish consumption, means taking your smartphone and downloading the "Mr. Goodfish" mobile app. There you will find a list of fish recommended according to the season and their provenance.



A RESEARCH AND INNOVATION CENTRE

For 30 years, Nausicaá has been a place of scientific research and innovation. The Learning Centre and the Blue Living Lab are two places where the general public, students, scientists and start-uppers can find the support and resources they need to make a success of their projects.



Blue Living Lab : an incubation programme that is unique in Europe, with the French Tech Tremplin label

Fishing and fish farming, tourism, transport, health, combating pollution, biotechnologies, transformation of the produce of the sea, the Blue Living Lab has been working with start-ups, businesses, students and researchers since 2020 to help them develop projects that are in line with the Blue Society. Offering more than simple incubator support service, the Blue Living Lab should be experienced as an open innovation and experimentation platform, connected directly to the general public and Nausicaá communities. The Blue Living Lab wants to support innovation so that companies can benefit from the Centre's unique knowledge and know-how in the area of the maritime economy and ocean-related research, on the regional, national and international scales.

PRODRONES,

knowing the ecosystems and preventing their deterioration caused by human activities

Based in Wimille, near Boulogne-sur-Mer, PRODRONES is specialised in the acquisition and analysis of aerial and underwater images. It also works with a firm of environmental consultants to carry out observations on the natural environment. Incubated since 2020, PRODRONES is backed up by the expertise of Nausicaá and the Blue Living Lab to develop an Artificial Intelligence system for the automatic recognition of underwater species. This technology will be useful for learning about existing ecosystems before intervening on an underwater site and ensuring that any works carried out will not harm the species present there. Film shoots are organised regularly in the Nausicaá tanks, making it possible to adjust and optimise the measuring and observation instruments. Eventually, the goal is to acquire a large amount of data useful for animal care: measuring coral growth, mapping the species present in the tanks and measuring species by means of aerial filming, notably to avoid disturbing the animals. The visitors to Nausicaá will be able to contribute to "feeding" this artificial intelligence, by helping the algorithm to identify the species present in our tanks.

COPEFISH, copepods for the development of fish farming and biotechnological applications

Sponsored by Lille University and SATT Nord, the project has been hosted by Nausicaá since 2019. The keepers collect fish larvae in the tanks, a place of spontaneous reproduction for a large number of species present at the French National Sea Centre. The COPEFISH team works at the Centre where they raise copepods, little marine invertebrates that are at the foot of the food chain. These copepods then serve as food for the larvae born in the aquarium's waters. Copepod farming is tested here as a solution for helping newly domesticated species to grow. This innovation opens up perspectives for the aquarium-keeping and fish-farming markets. It also makes it possible to raise endangered species in a controlled habitat, thus contributing to reducing the pressure on the natural stocks and ensuring their long-term preservation.

CORAIL ARTEFACT, art at the service of coral conservation

In the framework of an artistic project commissioned by Lille 3000 for the Dubai Universal Exposition in October 2021, Nausicaá is providing its support to Jérémy Gobé, a visual artist who has a developed technical know-how around coral and lace. Based in the aquariological reserves, the artist working on the Corail Arte Fact project, is being incubated at Blue Living to develop an ecological coral cutting-taking solution using biosourced and biodegradable materials coupled with 3D printing. " The project owners that we support benefit from the fundamentals of an incubation programme: mentoring, networking, co-working and training space. At the heart of the French National Sea Centre, they can also access a number of installations for testing their prototypes, a tasting area is even on hand for their food products. The projects can be presented to the public in the framework of exhibitions and events. Co-designing workshops are organised with the citizens and experts present on the spot.... Entering the Blue Living Lab programme means accessing a veritable living laboratory for trying out and challenging the sustainable solutions that will make things happen in the future.

Gaëlle JEAN, Assignment Manager Blue Living Lab



THE BLUE LIVING LAB IS:

A new group of **5** start-up arriving in May 2021

8 start-ups receiving support

A team of **5** people at the service of the incubatees



NEW GENERATION COMMITTED TO THE OCEANS

Since its creation, Nausicaá has promoted the awakening of civic awareness in children and adults alike; through its exhibitions and also thanks to the educational content that the teams place at the disposal of teachers and students; allowing them to experience the majesty of the Oceans to the full, even from their classroom!





Nausicaá, partner of the **National Education System**

Nausicaá is a one-of-a-kind Centre focusing on the discovery of the marine environment, that is enjoyable, educational and scientific, essentially concentrating on the relationship between Mankind and the Sea. For 30 years, thanks to the partnership that exists between the French National Sea Centre and the Department of Education, an appropriate educational offer is proposed to schools.

EDUCAÁ, NAUSICAÁ'S MAGAZINE FOR TEACHERS AND THEIR STUDENTS

Designed for schools, Educaà proposes news, topical subjects, teaching material that can be used in the classroom, and concrete feedback on inspirational educational practices. Every three months, each issue explores a theme and proposes new learning opportunities to take the Oceans into the classroom.

EVERY YEAR:

Nearly **20,000** children and their accompanying staff take part in an educational workshop at Nausicaá.

For 30 years, **1,001** different types of resources have been imagined to inspire educational innovation for teachers at every level.

THE NAUSICAÁ LEARNING CENTRE:

Open by appointment from Monday to Friday, this centre processes and manages information - monitoring, analysing, writing, desk research, distribution, archiving for children, school groups, students, teachers, professionals and researchers. Multiple resources and information on the marine environment and sustainable development can be consulted there.

BESPOKE EDUCATIONAL SUPPORT

Today, a team of scientific mediators and four teachers provide support on a daily basis to teachers and their students in their academic project, from nursery school to university level with:

- creation of key material suited to the Department of Education's syllabuses
- support for teachers to help them implement their academic projects: training courses, special access, advice...
- creation of educational dossiers and other digital and interactive teaching material for teachers
- creation of educational tools for students with, for instance, the recent development of an escape-game for high-school students
- provision of educational kits and boxes of books
- choice of workshops and events for enhancing the visit.





WE ARE ALL PLAYERS COMMITTED TO THE OCEANS

resources, are all challenges that we must take up. national or European level.









500 teachers and educational staff on average each

year take part in our training courses and special access schemes, to allow them to discover the latest educational resources, new features and exhibitions and thus enable them to better prepare the visit before, during and after coming here with their groups.

Inventing solutions and realising them for a better management of the Oceans, innovating and experimenting by using and drawing our inspiration from the marine

Nausicaá is committed to and with young people to make it easier for them to take action by coordinating partnerships or taking part in multi-partner projects at the local,

NAUSICAÁ HAS AN IMPACT ON THE FUTURE OF THE OCEANS

From the beaches of Boulogne-sur-Mer to those of South Africa, from the region's schools to scientific circles, from the Boulogne Urban Community to the UN General Assembly, Nausicaá has an impact on the future of the Oceans. Co-founder of the World Ocean Network and one of the initiators of the celebration of World Oceans Day, the French National Sea Centre will play an active part in the United Nations Decade of Ocean Science for Sustainable Development (2021-2030). Goal: to put science at the service of countries in their implementation of the Agenda for sustainable development (SDG14) on the oceans.



An international commitment

As an enterprise committed to raising the awareness of the public at large regarding the battle against climate change, and in particular the place of the Oceans in climate regulation, Nausicaá serves as the spokesperson for the Oceans at the time of major international conferences and defends the concept of Blue Society.

ZOOM IN ON TWO EMBLEMATIC INITIATIVES

COALITION FOR BIODIVERSITY

In 2021, Nausicaá joined the worldwide coalition #UnitedforBiodiversity. Created on the initiative of the European Commission, it aims to reach out to public opinion, in the broadest sense, in order to encourage the decision-makers to act and always implement more concrete actions in favour of the preservation of biodiversity.

Nausicaá has answered this call by joining more than 200 aquariums, zoos, research centres, botanical gardens, national parks and museums in 47 countries. France, with 27 institutions, including the ZooParc de Beauval and Besançon Museum, is currently the second best represented country in the Coalition.

UNITED FOR #BIODIVERSITY

JOINT FOUNDER OF WORLD OCEANS DAY

To pay tribute to the beauty and riches of the world's Oceans, World Oceans Day was imagined nearly 30 years ago to mobilise and unite the world's populations around a project for the sustainable management of the oceans. Celebrated every year on 8 June, it brings together thousands of organisations in 70 countries on the 5 continents. Nausicaá, a founding member, and the partners in the World Ocean Network have strived since 2003 to obtain official recognition of this day with the backing of the Global Ocean Forum.

For 30 years, Nausicaá has been raising public awareness regarding a better management of the oceans and their resources. This year, Nausicaá is working with The SeaCleaners, and together they are proposing to say STOP to the waste washed up or dumped on our beaches!

#MakeWaves is a worldwide initiative for collecting the waste on beaches, designed to raise the awareness of as many people as possible regarding the devastating effect of this pollution. Launched by Nausicaá and The SeaCleaners, the #MakeWaves initiative comes within the framework of the United Nations Decade of Ocean Science for Sustainable Development.



NAUSICAÁ FIGURES AMONG THE FOUNDING MEMBERS OF THE "OCEAN AND CLIMATE PLATFORM" ASSOCIATION, LAUNCHED AT UNESCO IN JUNE 2014.

In 2020, the Ocean and Climate Platform brought together more than 80 members - research institutes, NGOs, aquariums, private sector, French institutions and international agencies, local authorities. The Platform works for a better understanding by the political decision-makers and the general public of the scientific messages on the interactions between the oceans, climate and biodiversity, and to have them taken into account. Goal: take the Oceans into account in the decisions and commitments made by the countries regarding the climate. In 2021, the Platform published a report to which Nausicaá contributed the section on "An ocean of solutions for the climate and biodiversity", in order to share Ocean-based solutions for combating climate change and the loss of biodiversity.





LASTINGLY Showcasing Hauts-de-france Region

The second most visited tourist site north of Paris, Nausicaá contributes to establishing the national and international reputation of the Boulogne area, and more broadly that of Hauts-de-France region. Committed to a more responsible type of tourism, the French National Sea Centre works in close collaboration with the Boulogne Urban Community and the Boulogne Tourist Office to offer a magical moment for our visitors.



For a sustainable tourism

From Nausicaá to Boulogne-sur-Mer, it will only take you a few minutes to feel the nature surrounding you. Between the coastline and the rural hinterland, you are sure to be overwhelmed by the diversity of the Boulogne landscapes and the feeling of authenticity they give off. From the sandy beaches, dunes and cliffs, not to mention the hedged meadows, marshes, hills and forests...





BOULOGNE-SUR-MER, A MUST-SEE TOWN ON THE CÔTE D'OPALE

France's Number One fishing port, the leading European platform for the transformation of the produce of the sea, also a city of Art and History and home to the biggest aquarium in Europe, Boulogne-sur-Mer offers its visitors multiple points of interest.

The fortified town is a tremendous testimony to 2,000 years of history with its extremely rich heritage: the 13th century ramparts, the belfry, a UNESCO World Heritage Site, Notre-Dame Basilica, which has the largest crypt in France, the Château Comtal, ... But the "Old Town" isn't just an open-air museum, it's also a maze of paved streets where it's great to go for a stroll.

LES DEUX CAPS, A REMARKABLE PROTECTED NATURAL SITE

The Côte d'Opale, counts 120 kilometres of dunes, beaches and cliffs bordering the Channel and the North Sea. The two most significant places along this coastline are Cap Blanc-Nez, a 132-metre high cliff between Calais and Boulogne-sur-Mer, and Cap Gris-Nez a bit further south: although this cliff is only 50 metres high it is nonetheless a strategic spot, because this is the closest point to England.

These two sites have been listed in the Network of Great Sites in France since 2011. A hike along Les Deux Caps site is magnificent, whether at high or low tide. And with a bit of luck, you'll even be able to catch a glimpse of some seals from the clifftops!

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The Great Site of France label materialises the desire to promote responsible and sustainable tourism in an area visited for its beauty, the spirit of its surroundings, its cultural and gournet assets and its inhabitants, who are so proud and happy to welcome you! All the players here strive to protect the scenery and enhance its sites, preserve biodiversity and its fragile natural spaces, welcome visitors and raise their awareness, develop eco-mobility, play a role in social integration and promote local sustainable and social economic developments.





Practical information

Nausicaá, Centre National de la Mer Boulevard Sainte Beuve 62200 Boulogne-sur-Mer

www.nausicaa.co.uk Telephone: +33 (0)321 309 999 E-mail: info@nausicaa.fr

Opening times:

Open from 9.30am to 6.30pm every day* *Nausicaá will be closed on 25 December 2021. On 1st January 2022, open from 2 to 6.30pm

Rates

1-Day ticket - All exhibitions:

Buy your ticket on-line and book for the following times: 9.30am / 10.30am / 11.30am / 12.30pm / 1.30pm / 2.30pm / after 3.30pm ADULT (aged over 12): starting from €28.50 (in July and August starting from €30). CHILD (aged 3 to 12): starting from €21.50 (in July and August starting from €23).

Special rates:

Seniors (over 60), students, job seekers, large-family card (SNCF card only) and people with a disability. ADULT (aged over 12): starting from €25. CHILD (aged 3 to 12): starting from €18.

Annual ticket:

Come as many times as you want and make the most of multiple advantages. This also exists for families (2 adults and 2 children) ADULT (aged over 12): €65 CHILD (aged 3 to 12): €50

Nausicaá + accommodation:

Take the time to visit Nausicaá and extend your stay on the Côte d'Opale! Whether you prefer hotels, Gîtes de France or guest rooms: there is something for every taste and budget. OFFERS FOR 2 TO 6 PEOPLE: starting from €50.85/person.

MEDIA REQUESTS

For any requests for information, interviews or film shoots, please contact the Communication/Press service:

• by phone on +33 (0)321 309 999 by e-mail at:

communication@nausicaa.fr Nausicaá / Marine Barbarin

marine.barbarin@nausicaa.fr +33 (0)671 061 422

Agence MCD / Emilie Van Durme evandurme@motcomptedouble.fr +33 (0)787 949 611

The Nausicaá **Endowment Fund**

Highlighting the ties binding Mankind and the Sea, informing the public of the challenges affecting the Oceans, raising public awareness regarding the defence of marine ecosystems, stressing the importance of sustainable consumption and the challenges facing the High Seas, those are what Nausicaá has been committed to for more than 30 years.

Discovering Nausicaá, means living an experience inviting you to act and take part in the creation of the Blue Society, a sustainable and fair society, with everyone involved with the sea.

At the end of 2017, Nausicaá set up its Endowment Fund which is fully in line with those missions and wishes to scale up the strength of this message with each of our Planet's inhabitants, through projects that hinge around three strategic areas: Preservation of biodiversity, civic education and mobilisation, research and innovation.

ITS MISSIONS:

• Help people to discover and love the sea to raise the public's awareness of the importance of better managing the oceans, and inviting everyone to act. • Offer an experience that encourages interaction and participation. · Contribute to the creation of a more sustainable and fair society with everyone

involved with the sea.

- have a real impact on our environment.
- · JOIN OUR FORCES by pooling our knowledge, skills and means of action.
- of the Oceans' resources.
- with the local players and thus strengthen our local ties.
- PROMOTE YOUR IMAGE thanks to Nausicaá's worldwide reputation as a tourist, cultural, economic and scientific hub.
- emblematic personalities, such as the Pioneers of the High Seas.

WHY COMMIT YOURSELF AT NAUSICAA'S SIDE ?

• MAKE A CIVIC COMMITMENT by investing in relevant and ambitious projects that

• BECOME A PLAYER IN THE BLUE SOCIETY by promoting the sustainable exploitation

• TAKE PART IN THE LOCAL DYNAMICS AROUND NAUSICAÁ by joining in its synergy

• JOIN OUR CIRCLE OF SPONSORS and partners, and gain privileged access to



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