Benissa

Ecological path for the coast







auladelamar

Walking along the coastline

The coastline of Benissa has numerous coves and steep rock faces of great beauty and ecological value. For this reason, the Department of Environment of Benissa's City Council and the Directorate General for Coasts have invested on the **creation of coastal ecological routes** in order to project and keep the cliffs, recovering autochthonous ecosystems.

Nowadays, there are 3 environmental routes on Benissa's coast. Those routes have been designed in order to enjoy nature respecting, at the same time protected communities and endemic plants. Route Cala Bassetes - Sea Workshop, route Sea Workshop - Cala Pinets and route Cala LLobella – Advocat, equipped at its end with a Bio – healthy park.





The low-difficulty routes, little less than 2,5 kilometres long, are equipped with easy access stairs. The walk takes approximately 1 hour and a half each one, since along the route some informative boards help us to read the coastline landscape.



The cliff as an ecosystem

The plants we find along the route are adapted to the Mediterranean climate. They have ribbon-shaped and small leaves that are hard or covered by filaments in order to lose as little water as possible by transpiration. We can observe this phenomenon in the Albaida and the marine Bufalaga. Some plants, such as the Mediterranean saltbus, "sweat" small salt crystals through their leaves.

In such communities we find important plants, some of them protected, like Mediterranean thyme and the Cat's Head rockrose, endemic of the Western Mediterranean. It is an endangered species worldwide and it is protected by the Habitats Directive (92/43/CEE). In Benissa we find these plants in two micro-reserves (*Cala Basetes and Cala Fustera*), guaranteeing their protection and monitoring.

Small earthly birds, mammals, reptiles, insects, etc., find protection and food in the vegetation. A lot of birds make their nests in the steep rock faces, and others flock to the rocks at its base to feed on small invertebrates. Seagulls are the most common birds in the coast's steep rock faces.





The wind and swell action

The coastline of Benissa is formed by high, stony and abrupt coasts (steep rock faces) between small beaches. The continuous impact of the waves excavates the base of the steep rock faces, and fragments from the top become unstable and fall, accumulating at the hase

The sand of the beach comes from the deposits flowed out by rivers and ravines, and by the sediments dragged by the water currents or swell. We can observe the action of the wind when it hits the rocks, producing holes and shaping the landscape.

Diving in the coast

The rocks accumulated in the base of the steep rock faces are suitable for sheltering numerous species, that are capable of surviving the continuous swell, splashes and desiccation. This is the reason why we find sharp, pointed, concave and jelly shapes and animals such as limpets, sea snails and algae.

On the soft substrates we may find species with flat or worm-like shapes (soles), that bury themselves to avoid dehydration (clams) or to go unnoticed. Others have filtering tufts (anemonae) or arms to move (octopuses).













Posidonia oceanica

The dark spots that can be observed in the sea are the prairies of *Posidonia oceanica*, that is, a genus of marine plant, exclusive to the Mediterranean Sea. The prairies provide an ideal shelter where numerous species reproduce, feed and find protection and are protected by the Directive on



the Conservation of Natural Habitats (92/43/EEC). Rests of P. oceanica in the shore denotes the good quality of the water near the coast.

"Green" areas

In addition, in Benissa you will find numerous "green" areas, on the coast and countryside, where you can enjoy the landscape and nature, as well as observation points, picnic and rest areas, bio – healthy parks, games, etc.

Of these sites include San Jaume, Fanadix, Calcides, Altamira, Magraner y Racó de Galleno.





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INTERPRETIVE PANELS LLOBELLA – ADVOCAT

STOPPING PLACE 1. CALA LLOBELLA

clear waters are an indicator of its environmental quality and it

STOPPING PLACE 2. COASTAL PINEWOODS

Benissa's coastal pinewoods, adapted to live in low-humidity and high sun radiation conditions, allows for the existence of several kinds of animals as a shelter for biodiversity. STOPPING PLACE 3. UNDERWATER ROUTES

The Benissa coastline has 6 underwater routes. There are 30 minute ong routes with a maximum average depth of 5.5 metres. Look at the rocky and sandy bottoms and *Posidonia oceanica* prairies and

STOPPING PLACE 4. PASEO ECOLÓGICO ADVOCAT By observation-points and a signed path, this itinerary allows us to enjoy, without riscks, beautyful cliffs and awsome transparent rocky seabeds. At the very end of the trail you will find a rest area with exercise equipment, call bio-healthy park. exercise equipment, call bio-hea STOPPING PLACE 5. THE CLIFF

rowing on the Benissa's cliffs, for example Cat's head rockrose and which guarantee the protection and tracking of those species. **STOPPING PLACE 6. BIOINDICADORES**

ecosystems. Theese are very sensitive to changes at the ecosystems conditions. Some examples are corals, *Posidonia oceanica*, lichens, bees, ants, dragonflies, frogs, etc.

INTERPRETIVE PANELS AULA DEL MAR-PINETS

STOPPING PLACE 1. DISCOVER YOUR ENVIRONMENT The Sea Workshop is a tourist information office, museum and environmental education centre. It is the departure point of the coastline itineraries. STOPPING PLACE 2. THE COASTLINE OF BENISSA

Some birds flock to the base of the steep rock faces to feed on small nvertebrates, such as the whimbrel. STOPPING PLACE 3. ETHNOLOGY

All the members of the families go to "jump in the water" to Benissa coves and beaches in the early days of August, during the Marà. STOPPING PLACE 4. THE QUEEN OF OUR SEABED The Posidonia oceanica is not an alga, but a marine plant with oceanica from Benissa are in good conditions, and thence we have to

TOPPING PLACE 5. COASTAL GEOMORPHOLOGY In Cala Fustera the strata are curved making a zigzag drawing like a snake. It is a succession of concave and convex folds, produced millions of years ago.

STOPPING PLACE 6. THE CLIFF AS AN ECOSYSTEM From here we can observe flying over the sea looking for fish to feed legged gull, the Audouin's gull and the Black-headed gull. STOPPING PLACE 7. STONY SEABEDS

urchins, fishes, etc., in the always immersed area. TOPPING PLACE 8. COASTAL DYNAMIC

shells and P. oceanica. They protect the beach from the swell erosion.

Ayuntamiento de Benissa Concejalía de Medio Ambiente www.benissasostenible.es



PEÑÓN DE IFAC

cork oaks for visitors to participate in their conservation.

Participate in the conservation of the route

The coastline of Benissa have steep rock faces of great beauty and ecological value, so during your visit try not forget...

- Please, use authorised roads and foodpaths for protect plants and animals.
- Do not disturb neither harm animals and plants.
- Do not pull up plants or flowers, you may take as many pictures as you like.
- Our rubbish pollute. Please use the nearest containers.
- Domestic animals must be held. Please do not forget to collect your dog's excrements.
- Respect private property.

The best way to preserve a natural place is to walk without trace.

For further information, doubts or suggestions please visit our website: www.benissasostenible.es

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