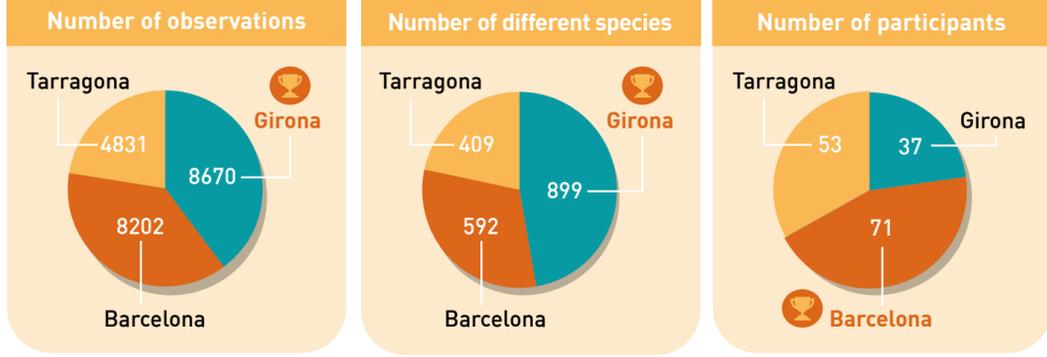


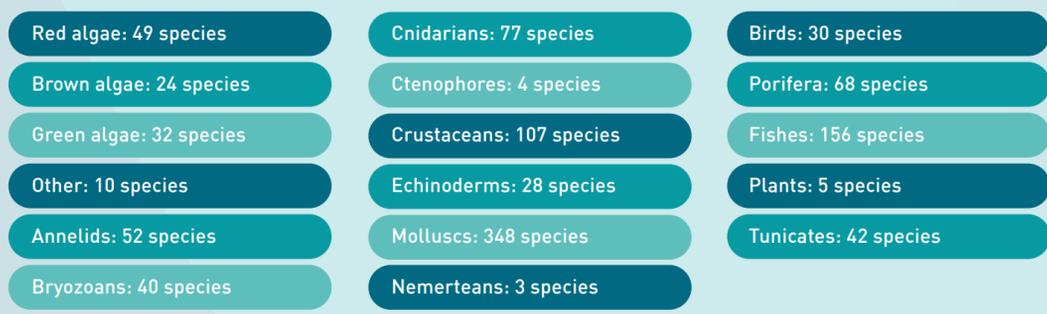
NOTEWORTHY RESULTS BiomARató 2022!



Which province was most active?



Which species were found in each taxonomic group?



Did you know...? Fun facts about marine species

All the pictures are photos submitted to the MINKA citizen science platform by volunteers during the BioMARató.

Observation: Adrian, Club Subaquàtic Cervera
Triggerfish have a flat oval body, eyes in a raised position and a small mouth, the eyes in a raised position and a small mouth. This species is **solitary and diurnal** and are rare sightings along the Mediterranean coast. Citizen science, which collects data in several regions, makes it possible to detect such rarities.

Observation: Guillem Mayor Samarra
Caranx crysos observations have been reported in all provinces; in some cases, the images contain dozens of specimens. This species is **thermophilic**, which means it can withstand high temperatures and, therefore, alert us about water warming.

Observation: Centre d'Estudis del Mar (CEM Vilanova)
 During BioMARató 2022, the **invasive algae *Caulerpa cylindracea*** was also reported in all provinces, in some cases, with high coverage and surface area. This species is Australian and can form large extensions of mats, preventing oxygen from spreading in the sediment.

Observation: Romuald Dumoutiert
 This small goby has **nocturnal behaviour** patterns and is challenging to observe. This photo is the only one reported in the entire BioMARató 2022 period, a remarkable finding!

Observation: Xavier Salvador
 Red coral is known for its high price and its use in jewellery. Due to its high exploitation, its populations have declined drastically. But now it is facing a new challenge, climate change, which is already showing its effects on this species. The photograph shows, on the left, a **completely dead colony** with necrotic tissue remains. On the right, a colony with **necrotic tissue** will soon be shed.

Observation: Plancton diving
 Manta rays are a species that can be found in the Mediterranean, they are usually located in the **open sea**, and their presence near the coast is sporadic. This year, two specimens of this species have been reported because **a nest caught them accidentally**. The specimen in the photograph, still alive, was released.

The five most active volunteers of the BioMARató. Learn more about them!

Oriol de Deu
 "This is the second time I have participated in the BioMARató, an event that, from my point of view, facilitates the participation of citizens in science. In this second edition, I have continued to discover the great biodiversity of our coastline. It is essential to protect such richness!"

Berta Companys
 "I was delighted to participate in this second edition of the BioMARató to follow up on several species in an area I know well and observe how biodiversity varies throughout the season. Moreover, it has been an opportunity to observe how the behaviour of some species has changed, including their abundance, due to the increasing temperature, compared to other years."

Romuald Dumoutiert
 "Participating in the BioMARató has allowed me to discover so many species. It has also encouraged me to pay more attention to the different biotopes and species around me. I believe that citizen science can provide a lot of data to the scientific community to detect trends in certain species and expand knowledge about particular species, among other things."

Núria González
 "I'm proud to have stopped saying "I've seen a lot of fishes", and, instead, now I can identify almost all of them. The BioMARató has been an essential tool to achieve this, with the help of the guided snorkelling sessions organised by Anèlides-Serveis ambientals marins and the use of identification handbooks. Moreover, it has been very gratifying to meet so many other people who love the sea and its inhabitants!"

Edu Alcaniz
 "The BioMARató has introduced me to the world of underwater fauna and flora. Thanks to this activity, I have learned about several species and some characteristics of their behaviour. In addition, it has put me in contact with experts who have helped me to classify the species I photographed and even have provided me with extra information!"

Acknowledgements

Participants in the BioMARató registered on MINKA:
 Albert, rogerpuig, jcoines, bertinhaco, olivencia88, xas, pilipinty, peixderoca24, joselu_00, anav08, xasalva, mariavtrilla, julsroca, jofre, mariaprat, planctondiving, carlos88, gnomimart, javi, titoret86, uri11rodri, patribaker, xavier_jmmora04, diego, marsalva, mariavtrilla, julsroca, jofre, mariaprat, yespi, oriol_d, iratxo mochilo75, teresa, pepe_molero, bernatgel, luccubsol, jaumesaltiveri, sandrajoel jaume-piera, lorna, truc0, paula, josepdegea, mllarch, saida, marinagm, cormorant, ealcaniz, loreto_rodriguez, arnau, claraloprod, andreuchavarria, judithcamps, andrea badosa, mvilabel, romu_freediving_photography, xatrac, estadesmarines, nuriasireni guillermoalvarez_fecdas, nuria, brais, bernat, demnos, oscarcg31, josepvilanova, masma, adrisoacha, adriacompte, carolina_rodriguez, Jorge, martiivg, noe18abril, manel, sonialinan, galleta, criisphens, matfer, alba, alba_bueno, albaz, albrusky, anaisdgr, anellides, bohs01, cem, didacgg01, juliagarcas, juliagr14, juliavivero, kentia, laiamc, laurabiomar, lidiameru, marc_perez_casals, mediambient_ajelprat mimo_fecdas, neele, okeanoslife, oriolbeltran, pau_esteban, paulagunas, ramonservitje, rinxolet, saita_diving, tallulah_sardin, uri_domingo, victorortega, adrian_diaz, Carmen, eloi_sanz, eminguez, eva, helenadelpozo, helenamarrugat, iris_jimenez, jaom, Jaume, mariagelpird, maryundadac, monmb, nataliarv, ngoncubells, polnavas01, underwaterbarcelona, xavi.

Organisers: Institut de Ciències del Mar, MINKA

Activities' coordinators: anèlides Serveis ambientals marins, Plàncton Diving, xatrac, FECDAS

Collaborators: iDiveBarcelona DIVING SCHOOL, Saita diving CLUB BARCELONA, VANAS DIVE, UNDERWATER BARCELONA ECO-FRIENDLY DIVE RESORT, OCEANICOS, Ajuntament de Calonge i Sant Antoni, Cos4Cloud, European Union, MINKE