NEPTUNE GRASS

(posedonia oceanica)











WHAT IS IT?

- Posidonia Oceanica (or Neptune Grass) is a marine flowering sea-grass found in un- or little-polluted sheltered coastal regions at depths of 1-35 metres up to where the sunlight penetrates.
- One of the largest, slowest growing, and longest-lived plants, individual clones can spread up to 15km, and the oldest is estimated to be around 100,000 years old!

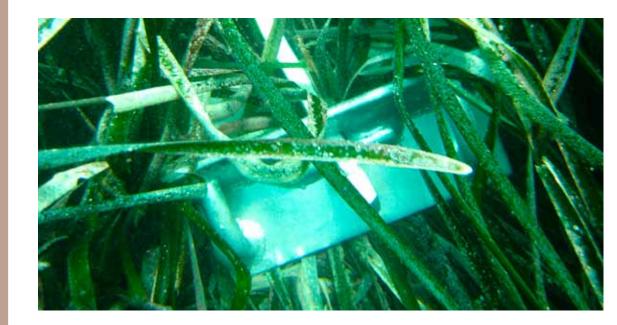
WHY IS IT IMPORTANT?

- One metre squared can produce up to 20 litres of oxygen per day.
- It can absorb up to 48 litres per day of carbon dioxide, making it important for carbon sequestration naturally helping to combat climate change.
- Its dense, matted meadows meadows provide a habitat for a number of marine organisms some of which are endangered.
- These meadows help stabilise the sea bed by helping to fix sediments and prevent coastal erosion, etc.



IS IT ENDANGERED?

- Approximately 34% of the population has been lost in the last 50 years.
- The rate of decline is several 100x faster than the rate of growth, making recovery difficult.
- There is evidence to show that the greatest decline is in the western Mediterranean.

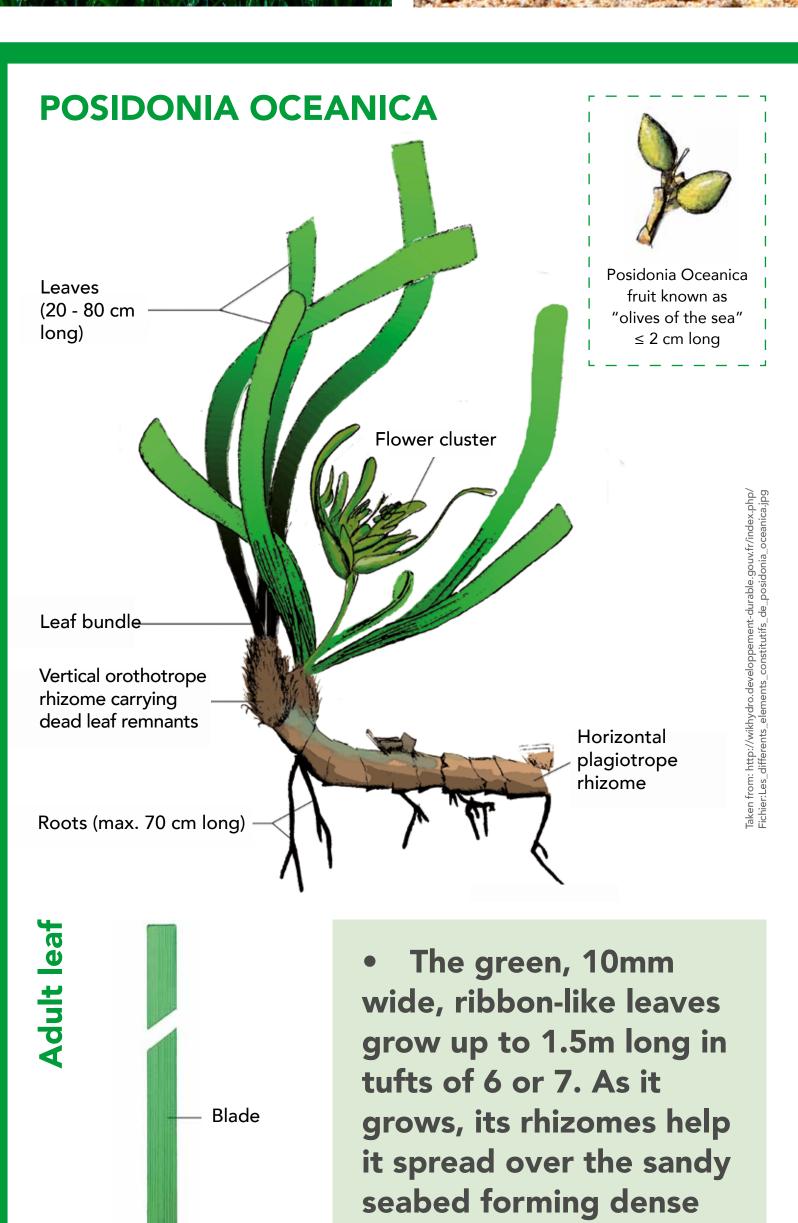


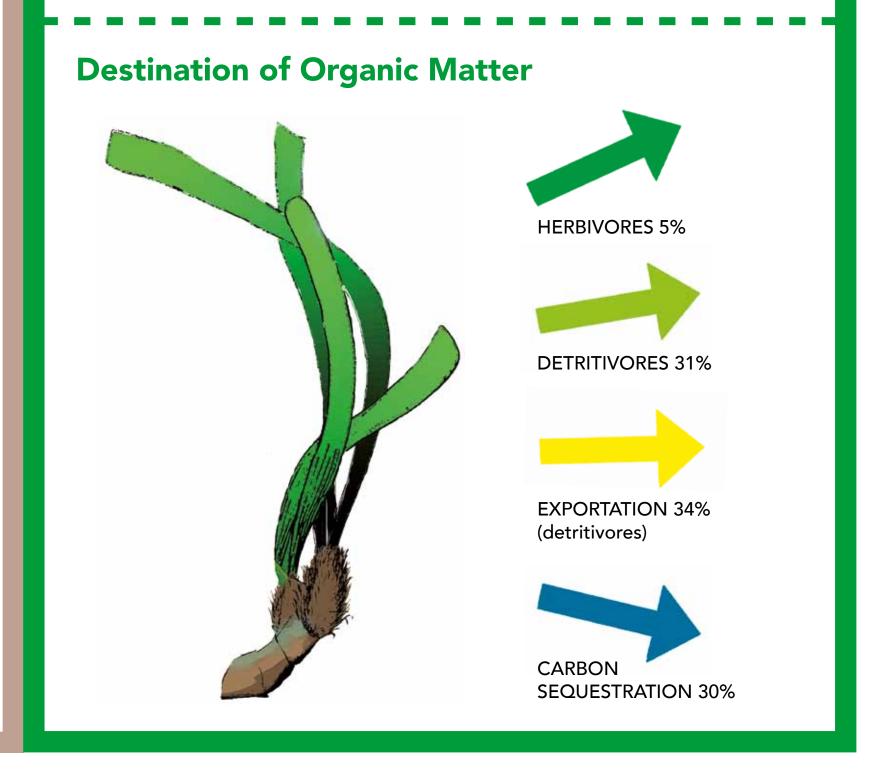
WHY IS IT ENDANGERED?

Posidonia Oceanica is rapidly declining due to man-made factors:

- coastal development: coastal construction and boat-anchoring,
- eutrophication (the increasing concentration of damaging chemical nutrients within an ecosystem),
- fish farming,
- mechanical trawling especially illegal trawling of the bottom of the seabed,
- alien-species invasion,
- climate change: warming of the water and ocean acidification.

There is evidence, however, that some areas of the Mediterranean which are under protection have been recolonised.





Petiole (sheath)

meadows which provide

shelter for a wealth of

marine organisms.