

Saccorhiza polyschides

Common name: Furbelows.

Irish names: Claíomh, Madra, Clabhthaí.

Phylum: Ochrophyta Class: Phaeophyceae Order: Tilopteridales Family: Phyllariaceae Genus: Saccorhiza Species: S. polyschides



Fig 1. Saccorhiza polyschides exposed at low-tide.

Morphology

- An annual brown kelp with a light to dark brown colour, with a digitate "finger-like" blade, a wide stipe and a large hedgehoglike holdfast.
- The stipe is large and flat, with characteristic marginal undulated wings near the base.
- The holdfast of mature individuals is a hollow bulbbous structure up to 50 cm wide of a yellow-brown colour covered in smooth short spikes.
- Usually individuals are 3 to 4 m long, but occasionally they can grow up to 10 m length.
- · A single individual can weigh up to 22 kg.

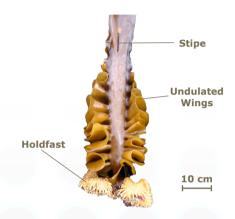


Fig 2. Morphology.

Reproduction

- Saccorhiza polyschides sporophytes are the macroscopic phase of a two-stage lifecycle (see LC4*).
- The reproductive tissue (sorus) appears as slightly raised and darkened areas on the undulated part of the stipe.
 - \bigcirc Male and female gametes occur on separate microscopic individuals \bigcirc (gametophytes).

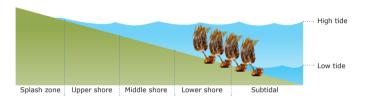


Fig 3. Detail of the sorus on the stipe.



Distribution and habitat

- Limited to the N Atlantic Ocean, found from Norway to Morocco.
- Sublittoral species present in exposed to sheltered shores.



Seasonality



Note: These seasonal characteristics may vary slightly from year to year.

Wild resource and cultivation







interesting facts

- This is the largest brown alga in Europe. As an annual species it grows very rapidly and was therefore cultivated at an experimental scale for its biomass.
- Its shape is highly dependent on hydrodynamic constraints.



- As an opportunistic species, S.polyschides fills spaces made in kelp beds after intense harvesting of L. digitata, or when L. hyperborea individuals are torn off by storms.
 - This species has been cultivated experimentally on long-lines in Ireland.

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