The most common salt marsh plant species in the Southeast provides us with a wealth of benefits!



Habitat

- Salt marsh is the second-most productive ecosystem on the planet. Its productivity is fueled by the recycling of nutrients, largely from *Spartina alterniflora*. The plant dies in the fall, forms wrack, and breaks down (decomposes) to release its nutrients back into the system.
- 75% of the commercially important species in the Southeast use the salt marsh as nursery grounds, such as the blue crab and shrimp.
- A number of animals such as shrimp, snails, fish, and birds also use the marsh for feeding grounds and protection.

Erosion control

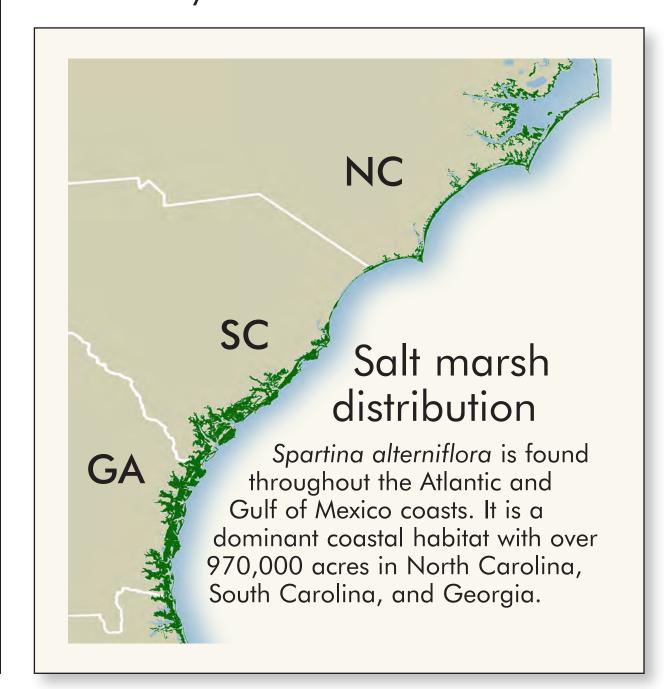
- Spartina rhizomes (underground stems) and root mats stabilize the marsh mud, protecting against erosion.
- Spartina stalks break up wave energy before it reaches the land, lessening the impacts of storms.
- Spartina stalks also trap sediment which helps protect against sea level rise.

Clean water

- Salt marshes filter pollutants from the water column that enter our estuaries from non-point sources such as houses and lawns.
- Spartina helps remove pollutants pesticides, heavy metals, and nutrients into less harmful forms.
- Marsh sediment can act as a sponge, burying and absorbing pollutants, thus minimizing the toxic effects.

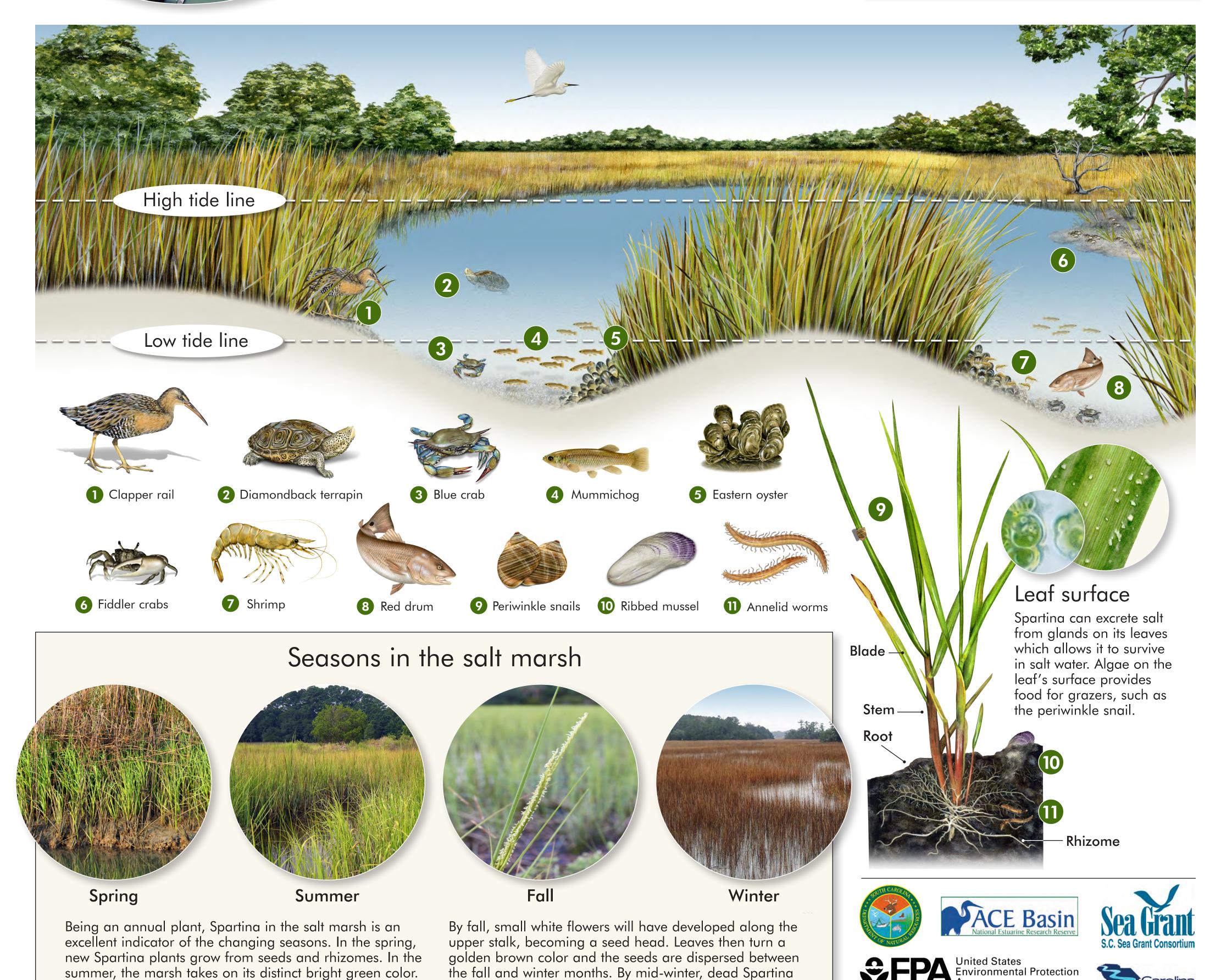
SMOOTH CORDGRASS DATTINA Palterniflora

A salt marsh is a coastal wetland that serves as the transition zone between land and salt water. The dominant salt marsh plant in southeastern estuaries is *Spartina alterniflora*. This amazing plant can tolerate being covered by salt water twice a day.



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breaks off and accumulates as mats of detritus ("wrack")

on the surface of the mud.