

## Marsh gumplant Grindelia stricta var. angustifolia

wetlands, like the natural levees that form It is found on higher ground within saltwater alongside tidal channels. Loast Miwok used to treat rashes. While exudes a sticky, aromatic resin, which the As suggested by its name, Gumplant jumplant likes its root zone better drained iickleweed favors perennially wet soil, ordgrass thrives under daily inundation and



## Pickleweed

winter. In some communities, its tender green tips plant, which means that it holds water in its leaves tends to blanket the shoreline. This is a succulent <sup>3</sup>ickleweed is a low-growing ground cover that be red in late summer and then turn brown in ind stems. Stems are typically green, but can also Sarcocornia pacifica,

like green beans or pickled are harvested and used to garnish salads, cooked



**Great blue heron** (Ardea herodias)

trogs, and voles) mammals (such as snakes) Like the Snowy egret, heron: amphibians, and small eat animals some reptiles, eat primarily fish but will also



retain some of the dark color for most of the breeding season. ores change back to yellow after the egrets lay their eggs, but the bills parts of their bodies changes. The lores (skin by the eye) turn from vellow to lime green, and the bill becomes dark along the top. The Egretta thula) s the egrets come into mating condition, the color of the featherless nowy egret (See inside map)



extremely high tide or storm surge rarely under water except for an The upper areas of a marsh that are

High Marsh

### Salt grass Distichlis spicata)

grass look spiky. low-growing mats of spiky-looking grass. together along the stems, which makes this The leaf blades are short, pointed, and close Salt grass spreads out to form thick,



Salt pan alive) debris is deposited upon located within salt marshes. They existing vegetation, killing it, or form when a mat of organic (once A water retaining depression

hypersaline (really salty)

when undrained water becomes



Pacific cordgrass (Spartina foliosa)

the water and the salt crystals left behind special pores in the leaves. The sun evaporates seawater and saltwater is need the daily tides to become visible on the grass blades. The plants Cordgrass is a salt excret or. Its roots take in ish away the crystals.

## Low Marsh

daily. Good habitat for cordgrass, insects, herons and egrets. I he low areas of the marsh that

plain. This zone is conspicuous because of the dominance of the short, stiff salt grass.

<sup>-</sup>he middle marsh is often called the marsh

Middle Marsh



MARIN COUNTY P A R K S PRESERVATION

#### boo

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# FIND THESE MARSH TREASURES



# **Black-necked stilt**

(Himantopus mexicanus)

sand. adapted for foraging in mud and pick at insects near the water's bird. This enables them to wade water. They have the largest leg stilts are adapted for foraging in surface. Their beaks are also to body length ratio of any living The long bills and legs of these up to their belly in deep water to

flood

Mud Flat

## Subtidal

Ivew ant prole slemine the path and look out for the special plants and adventure begins! Make your way South along East toward the bike/pedestrian path where the the Mill Valley Community Center and walk treasures listed on the map as you can! Start at find as many of the plant, animal, and habitat Discover the magic of Bothin Marsh as you

Welcome to your scavenger hunt adventure!



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**Search Path** 

North

TAM JUNCTION

Ridgway's rail is a handsome gray-and-rusty bird that lives most of its life concealed in dense vegetation. They have special salt glands that enable them to drink seawater. Chicks less than two weeks old are carried on the adults' backs during periods of high water or when the birds move across open water. Ridgway's rail needs high marsh to escape when the tide gets high, and hide in gumplant and picklweeed from predators such as hawks and falcons.

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Western sandpiper (Calidri<mark>s mauri)</mark>

Ridgway's rail Rallus obsoletus