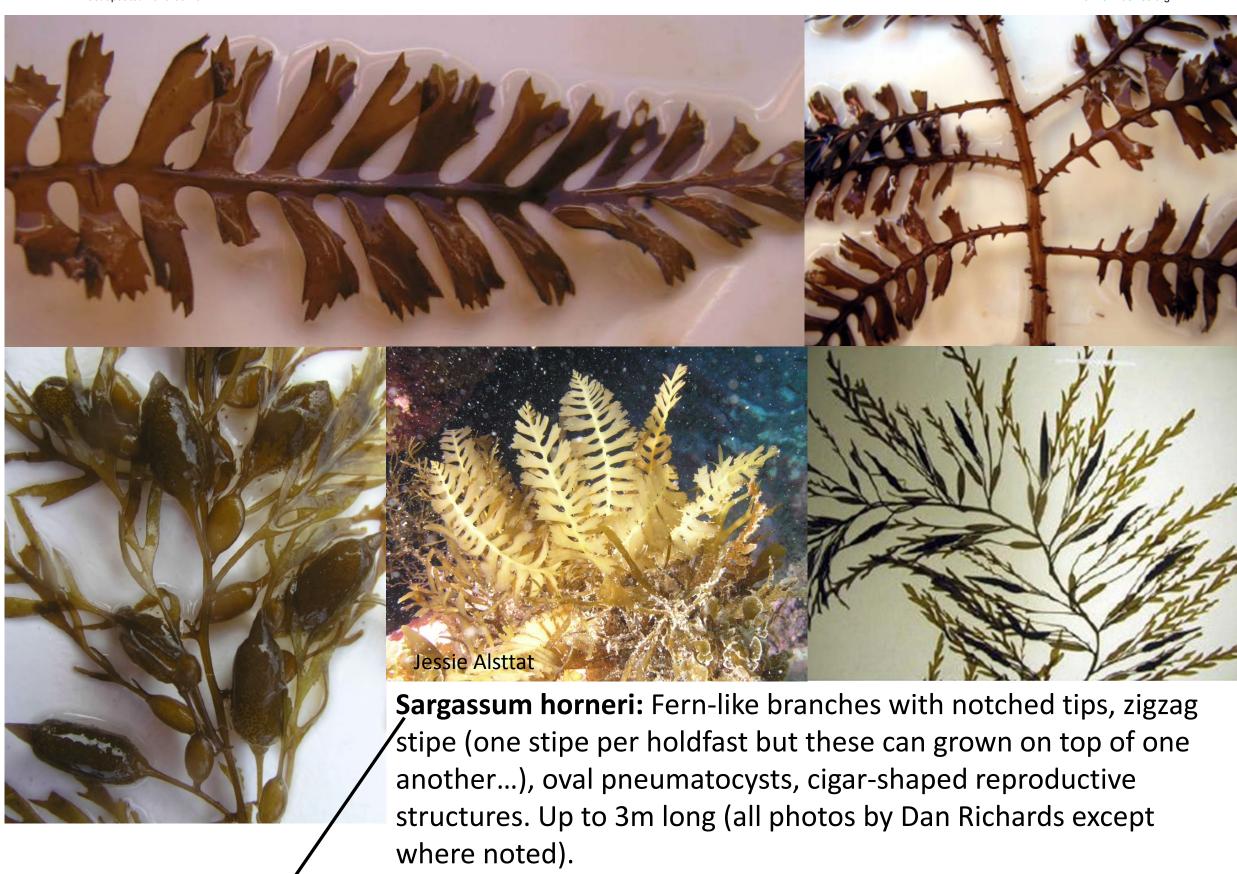
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Sargassum muticum: Felty/fibrous holdfast (1-several stipes per holdfast), tough and cylindrical alternating branches that are whorled at the base with flattened and toothed leaves that resemble Holly, spherical and single pneumatocysts. Up to 4m long.

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Caulacanthus okamurae: densely tufted, dark purple to brownish, profusely and irregularly branched, horn-like appearance at tips. Up to 30 mm long, attached by creeping stolons often on mussels/epiphytic. Usually smaller, redder, and softer than *Endocladia muricata* (photos by Dave Lohse unless otherwise noted).



Didemnum vexillum: "marine vomit," may be orange, pink, yellow, tan, cream. Surface has veins and pores and feels smooth, gelatinous, and leathery (not slimy). Can be lobed (resembling dripping wax). Can reproduce both sexually and asexually via fragmentation.

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cylindrical branches, grows on rock

Lomentaria hakodatensis: deep red, bushy, 3-10 cm tall, radial branching,







Undaria pinnatifida: yellowish to dark brown, claw-like holdfast, flat stipe that becomes a midrib with broadly lobed blade, usually 1-2 m long, frilly sporophylls coil around stipe when mature. Occurs in sheltered areas, especially on marinas, buoys, and floating structures in harbors.

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