

Pocket Field Guide

SAV species list

Cd - Hornwort - Ceratophyllum demersum

Cal - Water starwort - Callitriche sp.

Egd - Brazilian waterweed - Egeria densa

Ex - Unknown waterweed - Elodea sp.

Ec - Common waterweed - Elodea canadensis

En - Western waterweed - Elodea nuttallii

Hd - Water stargrass - Heteranthera dubia

Hv - Hydrilla - Hydrilla verticillata

Mx - Unknown milfoil - Myriophyllum sp.

Mh - Low watermilfoil - Myriophyllum humile

Ma - Parrot feather milfoil - Myriophyllum brasiliense/aquaticum

Ms - Eurasian watermilfoil - Myriophyllum

Nx - Unknown naiad - Najas sp.

Nfl - Northern naiad - Najas flexilis

Ngr - Slender naiad - Najas gracillima

Ngd - Southern naiad - Najas guadalupensis

Nm - Spiny naiad - Najas minor

Px - Unknown pondweed - Potamogeton sp.

Pc - Curly pondweed - Potamogeton crispus

Pe - Leafy pondweed - Potamogeton epihydrus

Pi - Illinois pondweed - Potamogeton illinoensis

Pn - American pondweed - Potamogeton nodosus

Ppf - Redhead grass - Potamogeton perfoliatus

Ppu - Slender pondweed - Potamogeton pusillus

Rm - Widgeongrass - Ruppia maritima

Sp - Sago pondweed - Stuckenia pectinata

Ut - Bladderwort - Utricularia

Va - Wild celery - Vallisneria americana

Zm - Eelgrass - Zostera marina

Zp - Horned pondweed - Zannichellia palustris

U - Unknown species

Tier 1 monitoring parameters

Basic observer and site information

Photo required (if present)

SAV species





Hornwort (aka Coontail)

Ceratophyllum demersum



Location: Freshwater tributaries

General ID: Though it lacks true roots, hornwort may be observed attached to the sediment by a holdfast-type structure or floating freely below the water surface. Stems grow up to 3 m long. Brittle, stiff leaves grow in whorls of 9 or 10. Whorls are denser toward the end of the stem. Leaves fork into linear, flat segments. Fine teeth grow on one side of the leaf margin.

Similar morphology: Eurasian watermilfoil

Fun facts:

- Neither a dicot nor a eudicot, but is closely related to eudicots
- Found in all 50 states
- Most often found in slow-moving waters

Order Ceratophyllales • Family Ceratophyllaceae

Sampling in the Chesapeake Bay **Salinity Zones Sampling Guidelines** Oligohaline (and Tidal Fresh) MD **August and September** Mesohaline Tidal Fresh Oligohaline Mid-July to mid-August Mesohaline Polyhaline Polyhaline & 80 Km May man adapted from VIMS

Field packing list **Y**



Tier 1

On-site reporting

- Smartphone equipped with the Water Reporter app
- SAV species guide

Off-site reporting

- Paper
- Pencil
- Watch or Clock
- Camera

Oligohaline

- GPS-enabled device
- SAV species quide

- Dry bag
- Waterproof camera Boat

Tier 2

- Datasheets
- Pencils
- Dry erase marker
- Clipboard
- SAV species guide
- Pocket field guide
- Watch or clock
- Camera
- GPS-enabled device
- 8" Secchi disk with attached measuring tape
- Device to classify sediment
- First aid kit

Optional items

- Binoculars
- Hand lens
- Mask and snorkel
- Life jacket

• Trash bag

Hornwort (aka Coontail) Cd Ceratophyllum demersum Order Ceratophyllales • Family Ceratophyllaceae

Tier 2 monitoring parameters Basic observer and site information Sampling ranges Secchi depth Water depth Total SAV density **Epiphytes** SAV at surface 3 m Bottom sediment Photo Required (if present) SAV species Other macrophytes SAV flowers and seeds Long-range data 200 m Shoreline type Visible shoreline erosion Marine debris Other human impact

Water starwort

Callitriche sp.



Location: Fresh waters throughout Bay

Cal

Oligohaline

Oligohaline

Fc

General ID: Egg-shaped leaves are bright green and grow about 2 cm long and up to 8 mm wide, and may be observed at or just above the surface growing in rosettes that resemble small green flowers. Below the surface, each joint of the stem has two leaves that grow opposite one another.

Similar morphology: Common waterweed

Fun facts:

- Multiple species occur in the Bay; C. stagnalis is shown at the left
- Provides habitat for insects
- Food source for ducks

Eudicot • Order Lamiales • Family Plantaginaceae

Brazilian waterweed

Egeria densa



Location: Not common in the Bay; found in fresh waters

Egd

General ID: Forms thick mats at the surface of the water. Stems are highly branched. Leaves form in whorls of four and are densest near the top of the stem. Leaves are dark or bright green, serrated, long, and narrow (up to 2.5 cm long and 0.75 cm wide). Small white flowers form in the spring and the fall.

Similar morphology: Hydrilla, common waterweed

Fun facts:

- Native to South America
- Introduced to U.S. waters by aquarium owners emptying their aquaria in rivers and ponds

Monocot • Order Alismatales • Family Hydrocharitaceae

Common waterweed

Elodea canadensis



Location: Freshwater tributaries: occasionally in saltier waters where freshwater springs are found

General ID: Oval leaves grow directly on thin, branched stems (no leaf stalks). Leaves grow in whorls, with 3 per node. Tips of leaves are blunt and margins have fine teeth that are only visible using a hand lens. Leaves are densest toward stem tip.

Similar morphology: Hydrilla, western and Brazilian waterweeds

Fun facts:

- Food for beavers, muskrats, and ducks
- Can grow in deep or shallow waters
- Habitat for invertebrates, small fishes, and amphibians

Monocot • Order Alismatales • Family Hydrocharitaceae

Western waterweed

Fn

Elodea nuttallii



Location: Fresh waters and upper reaches of Bay tributaries

General ID: Long, slender, branched stems grow up to 1 m long. Whorled leaves grow directly on stems (in threes or fours) and are evenly spaced along stem. Leaves are short (up to 16 mm) and narrow. Leaves are pale green in color. Flowers are white.

Similar morphology: Hydrilla, common waterweed

Fun facts:

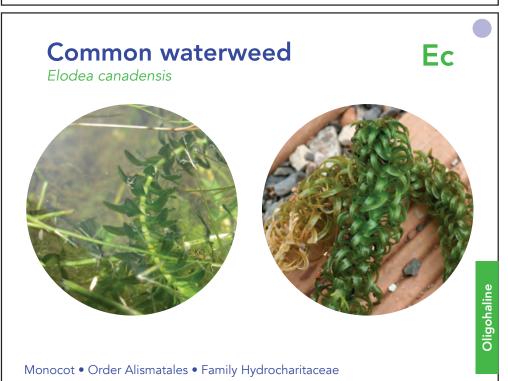
- Native to North America
- Invasive in Europe and Asia

Monocot • Order Alismatales • Family Hydrocharitaceae









Water stargrass

Heteranthera dubia



Location: Freshwater tributaries

General ID: Tall, somewhat bushy plant with grass-like leaves that grow on branching stems. The bottom of each leaf wraps around the stem like a sheath. Leaves are arranged alternately. Yellow, 6-petaled flowers may grow above water in the summer.

Similar morphology: Naiads

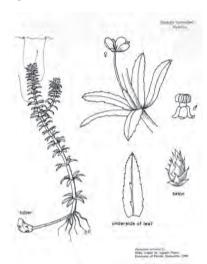
Fun facts:

- Flowers only open above the surface of the water
- There is also a terrestrial form of this species

Monocot • Order Commelinales • Family Pontederiaceae

Hydrilla

Hydrilla verticillata



Location: Fresh and brackish waters of the Bay, in areas with muddy substrate

General ID: Stems are long and branching. Leaves grow in whorls of 3-5, and can be straight, lance shaped, or very small. Leaves are linear and serrated. Flowers are white and very

Similar morphology: Common waterweed

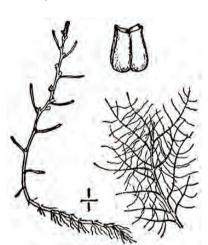
Fun facts:

- Non-native in the Chesapeake Bay
- Can live in lower light conditions than other SAV species
- Food source for migratory birds

Monocot • Order Alismatales • Family Hydrocharitaceae

Low watermilfoil

Myriophyllum humile



Mh

Oligohaline

Hd

Location: Freshwater coastal ponds, lakes, and reservoirs along shoreline

General ID: Morphology is extremely variable depending on water level. Leaves are very fine and grow suboppositely or scattered along stems. Each leaf has up to 20 hair-like segments (up to 10 per side) that make this plant appear fuzzy.

Similar morphology: Eurasian watermilfoil

Fun facts:

• Not common in Chesapeake Bay

Oligohaline

Parrot feather milfoil

Ma

Myriophyllum brasiliense (or aquaticum)



Location: Fresh waters of the Bay

General ID: Stems are stout; pinnate leaves grow in whorls of 5. Each side of the leaf has up to 25 protrusions. May be observed growing along the shoreline submerged and exposed. Maintains structure out of the water and can survive growing terrestrially along shoreline

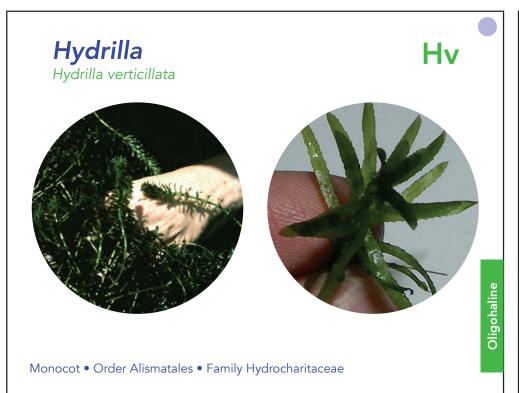
Similar morphology: Eurasian watermilfoil

Fun facts:

- Can grow out of water and onto land
- No male plants exist outside of South America
- Native to the Amazon
- Introduced to the U.S. in Washington, D.C.

Eudicot • Order Saxifragales • Family Haloragaceae

Eudicot • Order Saxifragales • Family Haloragaceae









Eurasian watermilfoil

Ms

Myriophyllum spicatum



Location: Widely distributed in fresh and brackish waters of the Bay and its tributaries

General ID: Delicate leaves resemble feathers and grow in whorls of 4 (usually) or 5. Leaves are pinnate and lose their shape when removed from the water. In the summer, reddish flowers grow in spikes above the water.

Similar morphology: Parrot feather milfoil, hornwort

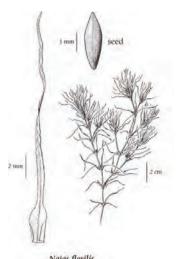
Fun facts:

- Is an introduced species in the Bay
- Provides habitat for insects and aquatic species

Eudicot • Order Saxifragales • Family Haloragaceae

Northern naiad

Najas flexilis



Location: Rivers and fresh and brackish Bay waters, in areas with sandy substrate

General ID: Narrow leaves are slightly broader at the base and grow up to 6 mm long. Leaves are opposite or in whorls, and curve out from the stem. Stem is slender and branching.

Similar morphology: Slender, southern, and spiny naiads

Fun facts:

- Also known as the "nodding waternymph"
- Sensitive to pollution
- Food source for water birds

Monocot • Order Alismatales • Family Hydrocharitaceae

Slender naiad

Najas gracillima



Ngr

Oligohaline

Oligohaline

Location: Rivers and fresh Bay waters, in areas with sandy substrate

General ID: Leaves are narrower than those of southern and northern naiads. Tiny teeth are very difficult to see on leaf edges. Leaves are opposite or whorled and grow up to 28 mm in length. Leaves grow more densely near the top of the slender, branching stem.

Similar morphology: Northern, southern, and spiny naiads

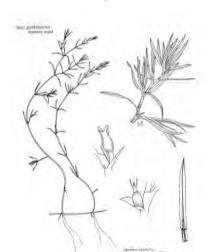
Fun facts:

• Also called the "thread-like waternymph"

Monocot • Order Alismatales • Family Hydrocharitaceae

Southern naiad

Najas guadalupensis



Ngd

Location: Rivers and fresh Bay waters, in areas with sandy substrate

General ID: Narrow, flat, straight leaves grow up to 33 mm long. Leaves are opposite or whorled on slender, branching stems.

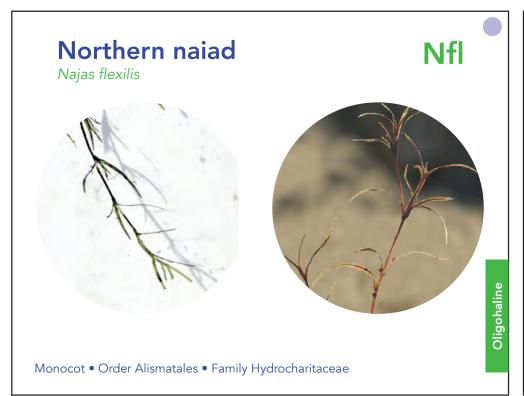
Similar morphology: Slender, northern, and spiny naiads

Fun facts:

- Found across the Americas
- Considered a weed in some areas
- Food source for water birds and fish
- Also called "bushy pondweed"

Monocot • Order Alismatales • Family Hydrocharitaceae

Eudicot • Order Saxifragales • Family Haloragaceae

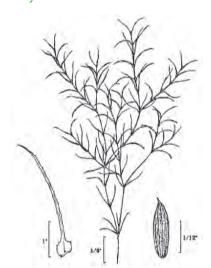






Spiny naiad

Najas minor



Location: Rivers and fresh Bay waters, in areas with sandy substrate

Nm

General ID: Leaves are narrower than those of Southern and Northern naiads. Tiny teeth on leaf edges are visible to the naked eye. Stiff, recurved leaves grow oppositely or whorled on slender, branching stems.

Similar morphology: Slender, southern, and northern naiad

Fun facts:

- Also called the "brittle waternymph"
- Introduced species from Europe

Oligohaline

Pe

Monocot • Order Alismatales • Family Hydrocharitaceae

Curly pondweed

Potamogeton crispus



Location: Found in fresh and slightly brackish waters of the Bay

General ID: Stems are round and branching, with alternate leaves that may grow opposite near water surface. Leaves are wavy with distinct mid-vein and may appear reddish-brown as summer progresses.

Similar morphology: Redhead grass

Fun facts:

- Introduced to the Chesapeake Bay in the 1800's
- Leaves appear crimped

Monocot • Order Alismatales • Family Potamogetonaceae

Leafy pondweed

Potamogeton epihydrus



Location: Found in slow moving, freshwater less than 2 m deep; not common in Chesapeake Bay

General ID: Has both floating and submerged leaves, which are bright green with a light-colored stripe down the center. Floating leaves are paddle-like. Stems are flat and grow u p to 18 cm long. Flowers are small and brownish green.

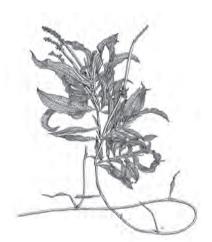
Similar morphology: Other pondweeds

Fun facts:

- Eaten by waterfowl
- Provides habitat for aquatic animals

Illinois pondweed

Potamogeton illinoensis



Location: Rare in the Bay, may be found in freshwater areas

General ID: Long stems support ellipse-shaped leaves. Leaves grow submerged and floating. Submerged leaves are longer than floating ones, and have pointed tips. Floating leaves are paddle-like. Stems are long, cylindrical, slim, and branching. Small green flowers grow on spikes.

Similar morphology: Other pondweeds

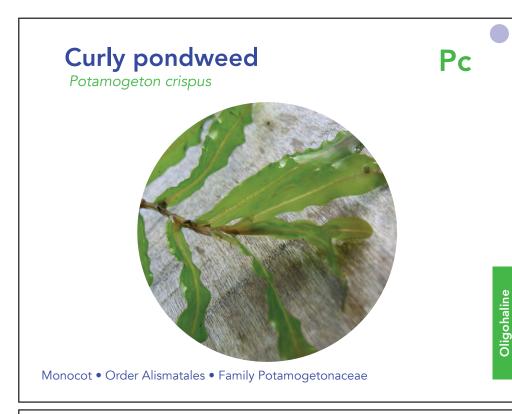
Fun facts:

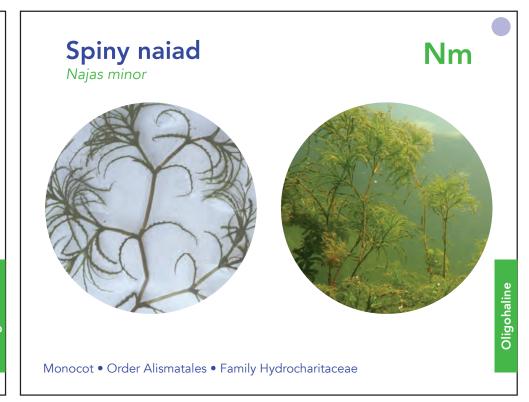
• Also known as "shining pondweed"

Monocot • Order Alismatales • Family Potamogetonaceae

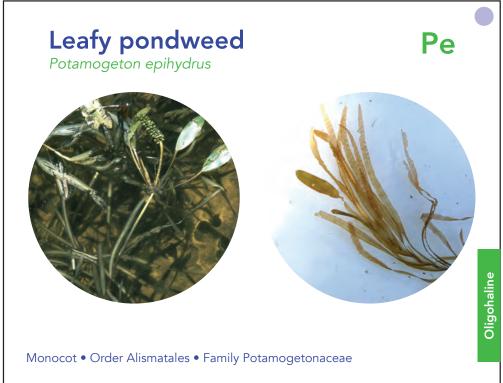
Oligohaline

Monocot • Order Alismatales • Family Potamogetonaceae









Ppf

American pondweed

Potamogeton nodosus



Location: Rivers, ponds, and tidal fresh and brackish waters of the Bay

General ID: Floating leaves may appear dense at the surface. Stems can be up to 2 m long. Floating leaves are oval and are 10-18 cm long and up to 2-5 cm across. Underwater leaves are sparse, and are smaller and blade-like. Flower stalks grow above water.

Similar morphology: Other pondweeds

Fun facts:

- Also called "longleaf pondweed"
- Food source and shelter for turtles. fishes, ducks, and invertebrates
- Has submerged and floating leaves

Monocot • Order Alismatales • Family Potamogetonaceae

Redhead grass

Potamogeton perfoliatus



Location: Brackish waters with muddy substrate and slow currents

General ID: Flat, oval leaves have several highly visible veins and are arranged alternately along the stem, occasionally opposite near the surface. Leaf bases attach directly to and wrap around the stem.

Similar morphology: Curly pondweed

Fun facts:

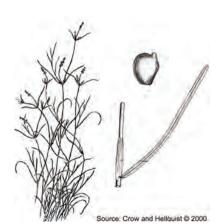
- Named for the redhead ducks that consume it
- Also a food source for other waterfowl

Monocot • Order Alismatales • Family Potamogetonaceae

Slender pondweed

Ppu

Potamogeton pusillus



Location: Upper and middle Bay and fresh to slightly brackish tributaries

General ID: Long, thin, grass-like leaves have pointed tips and may be purplish in color. Leaves are arranged alternately and have prominent mid-veins. Stems are slender and branching. Flowers grow in whorls on spikes.

Similar morphology: Sago pondweed, horned pondweed, and widgeongrass

Fun facts:

- Also called "small pondweed"
- Eaten by waterfowl

Widgeongrass Ruppia maritima



Location: Middle to lower Bay throughout brackish and salty tributaries and mainstem

General ID: Long, narrow, threadlike leaves grow alternately on narrow stems. A sheath grows at the base of each leaf. Leaves grow up to 10 cm long and 0.5 mm wide. During the late summer, flower stalks grow and branch upwards with distinct flowers and drupelets.

Similar morphology: Horned and sago pondweed (when not flowering)

- May be found growing with eelgrass
- Most common in sandy substrate
- Important food source for ducks, geese, and other waterfowl

Monocot • Order Alismatales • Family Ruppiaceae

Oligohaline

Oligohaline

Monocot • Order Alismatales • Family Potamogetonaceae

Fun facts:

Potamogeton perfoliatus





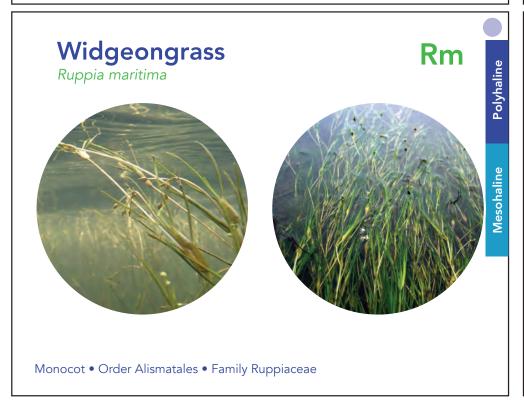
Ppf

Monocot • Order Alismatales • Family Potamogetonaceae

Potamogeton nodosus

Monocot • Order Alismatales • Family Potamogetonaceae

American pondweed





Mesohaline

Bladderwort

Utricularia



Location: Freshwater ponds and ditches

Up

General ID: Typically found floating, with stems and leaves submerged. Stems are branching and grow horizontally. Leaves are alternate, stemlike, linear, and may grow oppositely or whorled. Bladders grow on stems and leaves. True roots are absent. Flowers grow on leafless stems when present.

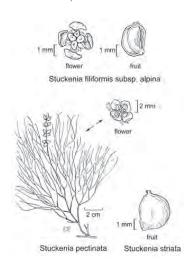
Fun facts:

- Several species inhabit the Chesapeake Bay
- Are carnivorous; they trap and digest organisms in bladders
- Free-floating and rootless
- Often called "ditch grass"

Eudicot • Order Lamiales • Family Lentibulariaceae

Sago pondweed

Stuckenia pectinata



Location: Fresh to brackish waters throughout the Bay

General ID: Stems are slender and branching. Leaves are arranged alternately, and are long, threadlike, and tapered to a point. The basal sheath may be pointed. Stems and leaves may appear fan-like. Seed clusters may appear above the water surface and resemble grape clusters.

Similar morphology: Horned pondweed and widgeongrass

Fun facts:

- This species was formerly classified as Potamogeton pectinatus
- Inhabits the Americas, Europe, Africa, and Asia
- Easiest to differentiate from widgeongrass when seeds are present

Monocot • Order Alismatales • Family Potamogetonaceae

Eelgrass

Zostera marina



Location: Saltier waters of the Bay

General ID: Eelgrass shoots typically consist of 3-5 strap-like leaves enclosed in a basal leaf sheath. Leaves can grow to be 4 feet long, but vary in size depending on the plant's location. Eelgrass has thick, creeping rhizomes with many roots and nodes.

Similar morphology: Wild celery Fun facts:

- Eelgrass beds provide refuge for many species including seahorses, pipefish, juvenile fishes, blue crabs, and scallops.
- Eelgrass is the only true seagrass found in the Chesapeake Bay.

Wild celery

Vallisneria americana



Location: Fresh to slightly brackish tidal waters of the Bay

General ID: Ribbon-like leaves grow in clusters from the base of the plant. Leaves are long and flat with blunt, rounded tips and a light green midvein. They grow up to 1.5 m long and 1

Similar morphology: Eelgrass

Fun facts:

• Provides food for migratory and overwintering birds

Monocot • Order Alismatales • Family Zosteraceae



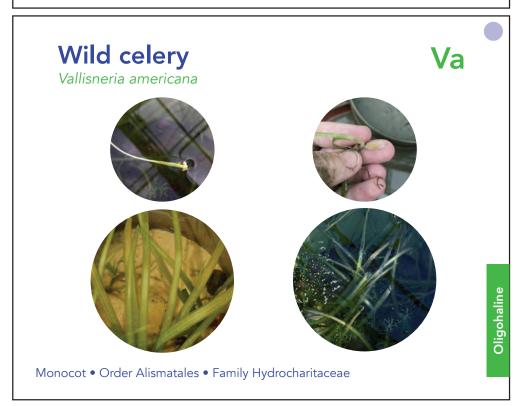
Monocot • Order Alismatales • Family Hydrocharitaceae



Zm

Oligohaline







Horned pondweed

Zp

Polyhaline

Mesohaline

Oligohaline

Zannichellia palustris



Location: Widely distributed in the Bay, most abundant in the Mesohaline mid-Bay

General ID: Stems are slender and branching. Long, linear, threadlike leaves are arranged oppositely or in whorls. Leaf tips are pointed and the basal sheath of the leaves is thin. This plant can be distinguished by its hornlike seeds that appear in pairs or sometimes in a set of four.

Similar morphology: Sago pondweed, widgeongrass

Fun facts:

- Multiple variations of this species exist; several are shown on this page
- Two forms are found in the Bay: one grows upwards, the other grows along the bottom sediment with stems and roots together

Monocot • Order Alismatales • Family Potamogetonaceae

Epiphytes





What are they? Epiphytes are algal species that grow on SAV. In terrestrial systems, epiphytic plants may grow on other plants, such as trees.

Are they parasites? No. Epiphytes use SAV and other plants as a substrate on which to grow, and do not always impact their host negatively. However, when nutrients are overly abundant, epiphytic algae may cover too much of the host SAV surface, blocking light and inhibiting photosynthesis.

Location: Often found growing on SAV in and around the Bay.

General ID: Varies immensely depending on species of epiphyte. May grow on stem or base of SAV.

Green freshwater algae





Genera: Chara, Nitella
Common Name: Muskgrass

General ID: Resemble some SAV species, but these are algae, not vascular plants. Leaves

branch, and grow off branching stems in whorls.

Green freshwater macroalgae

Red saltwater algae





Genera: Gracilaria, Agardiella Common Name: Red algae

General ID: Red in color, highly branched structure.

Red saltwater macroalgae

Oligohaline

Lyngbya





Bacteria • Phylum Cyanobacteria

What is it? Lyngbya is a freshwater cyanobacteria.

Location: Lyngbya has been found in the northern Bay covering SAV beds, and in fishing gear during the summer.

General ID: Grows in strands that clump together and form mats in warm, fresh waters.

Impacts on SAV species: Can grow over SAV beds and inhibit photosynthesis.

Warnings: Associated toxins may cause skin and gastrointestinal inflammation; avoid direct contact with Lyngbya. Wash your skin with soap if contact occurs!



Monocot • Order Alismatales • Family Potamogetonaceae

Brown saltwater algae



Genus: Ascophyllum

Common Name: Knotted wrack

General ID: Long fronds with rounded tips

and air bladders.

Brown saltwater macroalgae



Genus: Fucus

Common Name: Bladder wrack

General ID: Long, branching fronds with

air bladders.

Green saltwater algae



Species: Ulva lactuca

Common Name: Sea Lettuce



Genus: Ulva

Common Name: Enteromorpha

General ID: Sea lettuce resembles green sheets of cellophane. Turf green seaweed is similar to sea lettuce, but grows in a tubular morphology. Both may be found attached to the substrate by holdfasts, but are more often observed in mats or clumps rolling around with the

Green saltwater macroalgae

Water chestnut

Trapa natans





What is it? Water chestnut is an invasive floating aquatic plant that is actively managed in the Chesapeake Bay.

Location: Has been found in upper Chesapeake Bay tributaries and in the Potomac River.

General ID: Triangle-shaped leaves form rosettes that float on the surface of the water. The plant itself is bulky but the flowers are small and white.

Impacts on SAV species: Leaves can block sunlight from reaching SAV, competes for space.

What to do if you see it: If you see water chestnut while sampling SAV, alert MD DNR at (410) 260-8634.

Harmful algal blooms



What is it? Certain algae species can produce toxins dangerous to humans and aquatic species. When these species reproduce very quickly, or "bloom", they can form a harmful algal bloom, or "HAB".

General ID: May look like thick mats or clumps are growing on or near the water surface. May be red, green, or brown in color.

What should you do? It is difficult to distinguish a harmful algal bloom from a non-harmful one, so it is best not to sample in areas with an algal bloom. Instead, report suspicious algal blooms to the Chesapeake Bay Safety and Environmental Hotline at (877) 224-7229.

Leaf arrangement vocabulary

These four diagrams introduce you to terminology that is used throughout this pocket quide to denote leaf arrangement.

Basal

Whorled



Alternate





Opposite

Note: Do not determine leaf arrangement based on where the stem divides, as this will likely reflect an atypical arrangement from the majority of the plant.

Quick conversions: 1 cm = 0.4 in 1 m = 3 ft

Photo attribution Organized by page number from left to right

- 7 Chesapeake Bay Program (CBP) Andreas Rockstein, Jon Sullivan
- 9 Dr. Mary Gillham Archive Project, Richard Place
- 11 CBP, T. Pennington
- 13 Andreas Rockstein, Merike Linnamägi
- 15 Christian_Fischer, Radio Tonleg
- 17 Fritzflohrreynolds, jillllybean
- 19 USFWS, Darkmax
- 21 Donald Cameron
- 23 André Karwath, Evelyn Simak
- 25 burita2012
- 27 Robert H. Mohlenbrock, SERNEC
- 29 Donald Cameron, Show Ryu

- 31 Robert H. Mohlenbrock
- 33 Robert H. Mohlenbrock , MD DNR
- 35 Kristian Peters
- 36 Britton & Brown
- 37 Edward G. Voss, Barre Hellquist
- 39 Dick Culbert, Na. J. Pilla, Fernando Arcas
- 41- jillllybean
- 43 Kristian Peters, Natural Resources Wales
- 45 all by ChristianFisher2
- 47 Brooke Landry, Tim Carruthers
- 49 CBP, Brooke Landry
- 51 Himeji Science Museum
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- 62 Bob Peterson, Peter Southwood
- 63 Henry Hemming, Ansgar Gruber
- 64 all by MD DNR
- 65 Allen Gathman, DennisM2, Carnat Joel
- 66 Ohio Sea Grant
- 67 Luke McGuff, CBP, Hans Hillewaert, CBP, NOAA's National

Ocean Sciences, Georgia DNR

Creatures you may see near SAV



Snails



Crustaceans



Amphipods



Bivalves



Seahorses



Fishes

Lily pads

Genus Nuphar • Genus Nymphoides • Nelumbo lutea



What is it? Various species of lily pad that inhabit the Chesapeake Bay.

Location: Fresh waters in the Chesapeake Bay watershed.

General ID: Rounded leaves with waxy coatings float on water surface.

Impacts on SAV species: Can block sunlight from reaching SAV.





Site ID:

(YYMMDD.hhmm.FL)

Image description:

Contact list

- To report suspicious algal blooms, call the Chesapeake Bay Safety and Environmental Hotline at (877) 224-7229.
- To report a stranded marine mammal or sea turtle, call the Maryland Marine Mammal and Sea Turtle Stranding Response Program at 1-800-628-9944.
- For a natural resources emergency or to request assistance, call the Maryland Department of Natural Resources at 1-800-628-9944 or (410) 260-8888.
- To report a fishing or wildlife violation, contact Maryland Wildlife Crimestoppers at (443) 433-411.