Phytoplankton Monitoring Network

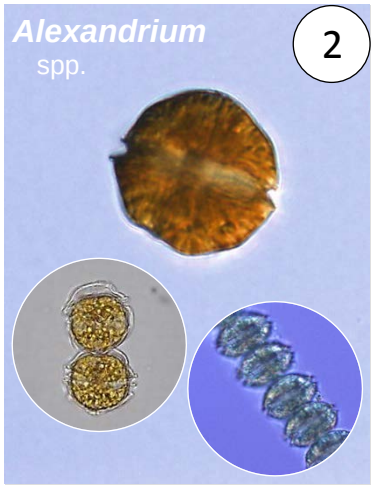
Promoting a better understanding of Harmful Algal Blooms by way of Volunteer Monitoring

Chesapeake Bay Region ID Sheet

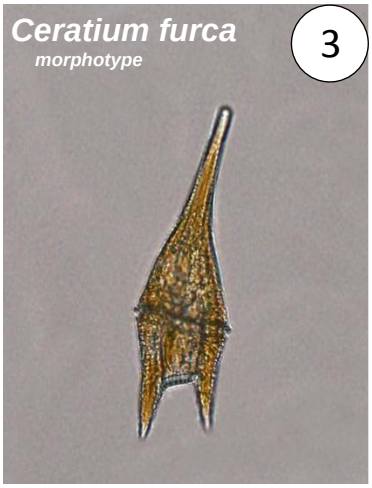
Target HAB Species

Images NOT to scale
Images: NOAA PMN

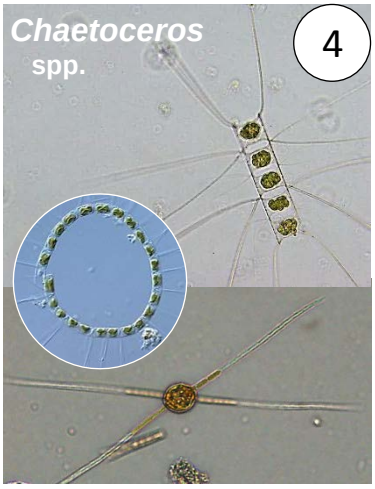
Akashiwo sanguinea



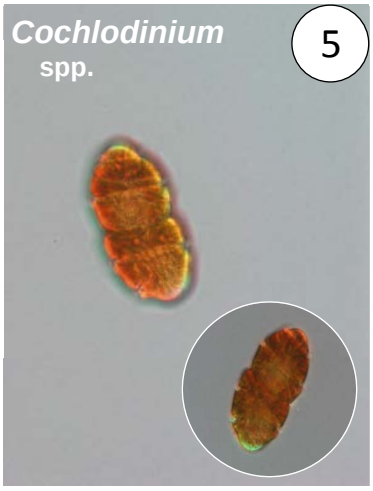
Alexandrium spp.



Ceratium furca *morphotype*



Chaetoceros spp.

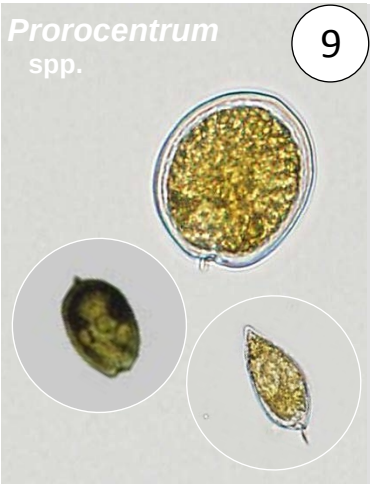


Cochlodinium spp.

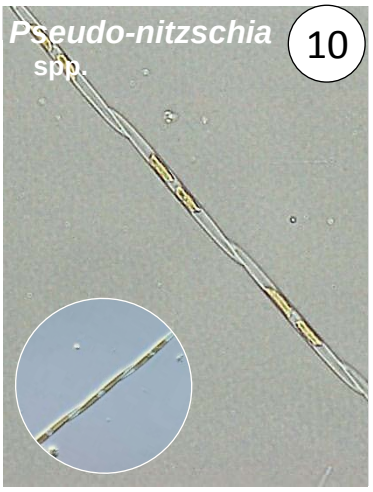
Dinophysis spp.

Karlodinium spp.

Lingulodinium polyedrum



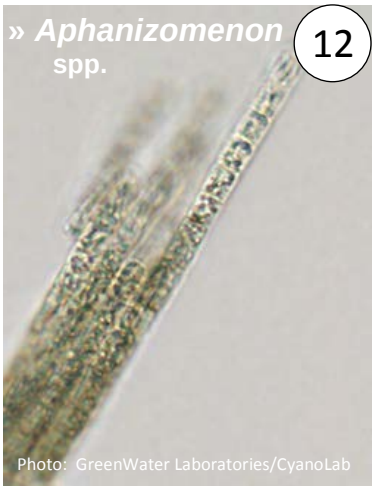
Prorocentrum spp.



Pseudo-nitzschia spp.

» *Anabaena* spp.

Photo: GreenWater Laboratories/CyanoLab

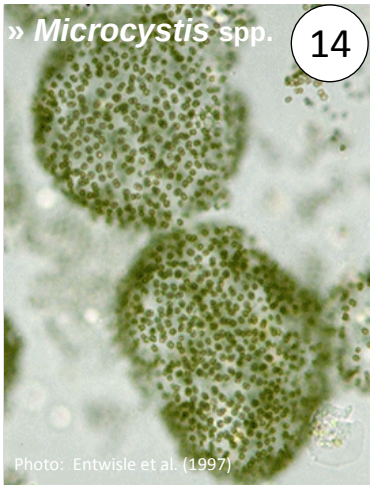


» *Aphanizomenon* spp.

Photo: GreenWater Laboratories/CyanoLab

» *Cylindrospermopsis* spp.

Photo: GreenWater Laboratories/CyanoLab



» *Microcystis* spp.

Photo: Entwisle et al. (1997)

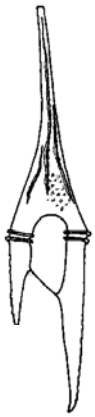
CHESAPEAKE BAY REGION TARGET HAB SPECIES

This sheet is designed to aid NOAA Phytoplankton Monitoring Network (PMN) citizen monitors on basic phytoplankton identification.

Only the taxa targeted by the PMN are listed. Not all phytoplankton collected can be identified with this sheet.

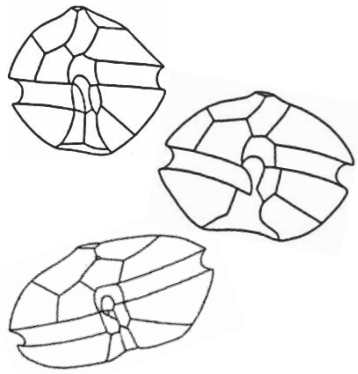
Illustrations NOT to scale
Illustrations: Tomas, C. (Ed.), 1997.

Ceratium furca morphotype — 3

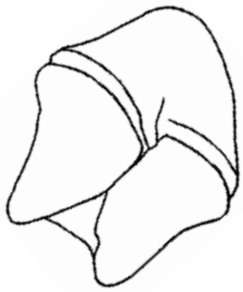


Alexandrium spp. — 2

Saxitoxin

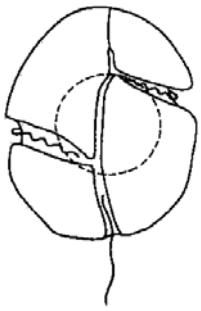


Akashiwo sanguinea — 1



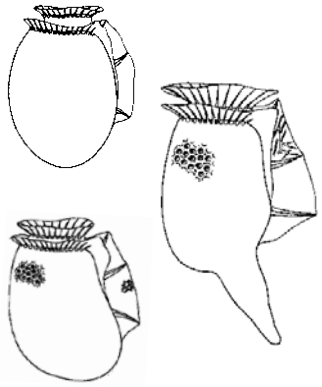
Karlodinium spp. — 7

Karlotoxin



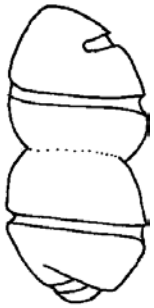
Dinophysis spp. — 6

Okadaic Acid

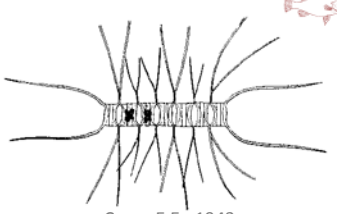


Cochlodinium spp. — 5

Unknown toxin



Chaetoceros spp. — 4



Cupp, E.E., 1943.

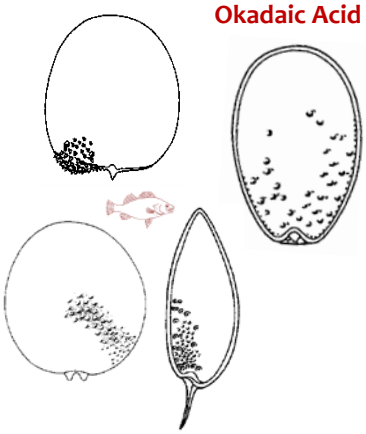
Pseudo-nitzschia spp. — 10

Domoic Acid

Cupp, E.E., 1943.

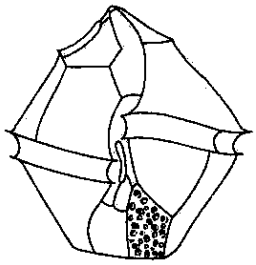
Prorocentrum spp. — 9

Okadaic Acid



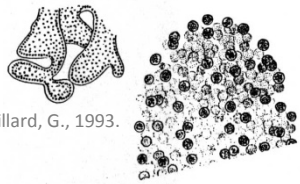
Lindulodinium polyedrum — 8

Yessotoxin



» *Microcystis* spp. — 14

Microcystin



Dillard, G., 1993.

» *Cylindrospermopsis* spp. — 13

Cylindrospermopsin

Dillard, G., 1993.

» *Aphanizomenon* spp. — 12

Saxitoxin

Dillard, G., 1993.

» *Anabaena* spp. — 11

Anatoxin-a

Dillard, G., 1993.

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