

Dinophyta

Dinophyceae

- 6 orders, >2,000 species
- Chlorophyll a, Chlorophyll c, peridinin, fucoxanthin, starch (storage product).
- Morpholog and ultrstructure:
epicone, hypocone, girdle, transverse flagellum, sulcus, longitudinal flagellum, theca (cellulose), trichocysts, nucleus with condensed chromosomes.
- Red tides:
Toxins: *Gonyaulax*: saxitoxin
Gymnodinium (Ptychodiscus): fish kills