

Table 1. Diagnostic Pigments of Phytoplankton and Their Taxonomic and Size Class Association

Diagnostic Pigment	Taxonomic Association	Typical Cell Size	Phytoplankton Class
Fucoxanthin Peridinin	Diatoms Dinoflagellates	>20 μm	Microphytoplankton
19'-Hexfucoxanthin 19'-Butfucoxanthin Alloxanthin	Prymnesiophytes Pelagophytes Cryptophytes	2–20 μm	Nanophytoplankton
Zeaxanthin Total chlorophyll <i>b</i> (=chlorophyll <i>b</i> + divinyl-chlorophyll <i>b</i>)	Cyanobacteria, Prochlorophytes Chlorophytes, Prochlorophytes	<2 μm	Picophytoplankton