

Dataset: protist abundance and biomass

Project: Trophic BATS

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Table 1: Plankton community identification chart based on shape and size used in the epifluorescence microscopy examination (modified version from Hansen et al, in prep).

Organism or taxonomic group	Size or size class (μm)	Typical shape	Fluorescence in Blue Light	DAPI Fluorescence in UV Light
Pico Euk	1-2, 2-4	circular or prolate	red	N/A
Nano Euk	4-6, >6	circular or prolate	red	N/A
Heterotrophic nanoflagellates	1-2, 2-5,	Circular	green	bright Blue
Heterotrophic dinoflagellates	5-10, 10-15, 15-20, >20	circular or prolate	green	very Bright Blue
Mixotrophic dinoflagellates	5-10, 10-15, 15-20, >20	Prolate	red and green	very Bright Blue
Autotrophic dinoflagellates	Varied	Prolate	red	very Bright Blue
Ciliates	Varied	circular or prolate, fringed by cilia	varied	bright blue; sometimes with multiple nuclei
Cryptophytes	Varied	oval with pointed end	green and yellow	N/A
Diatoms (centric)	Varied	circular or rectangular	red and green	N/A
Diatoms (pennate)	Varied	long and thin with tapered ends	red and green	slightly brighter in center