Table S2. Comparison of species richness, abundance (cells L^{-1}), and dominance between the Eastern Tropical Pacific Ocean off Mexico (ETPOM) and Southern Gulf of California (SGC) during the strong El Niño of 2023/2024.

	Eastern Tropical Pacific Ocean off Mexico			**Southern Gulf of California**		
	Species richness	**Abundance (cells L^{-1})**	**Dominant specie (abundance)**	**Species richness**	**Abundance (cells L^{-1})**	**Dominant specie**
Diatoms	86	20,200	*Guinardia striata* (Stolterfoth) Hasle 1996 (3060 cells L^{-1})	137	204,700	*Pseudo-nitzschia pseudodelicatissima* (Hasle) Hasle 1993 (55,300 cells L^{-1})
Dinoflagellates	69	37,000	*Gyrodinium fusiforme* Kofoid & Swezy 1921 (5460 cells L^{-1})	99	67,520	*Gyrodinium fusiforme* Kofoid & Swezy 1921 (10,640 cells L^{-1})
Silicoflagellates	4	260	*Dictyocha fibula* Ehrenberg 1839 (160 cells L^{-1})	4	1240	*Octactis octonaria* (Ehrenberg) Hovasse 1946 (700 cells L^{-1})
Ciliates	1	6860	*Mesodinium rubrum* Lohmann 1908 (6860 cells L^{-1})	1	14,120	*Mesodinium rubrum* Lohmann 1908 (14,120 cells L^{-1})
Cyanobacteria	1	980	*Trichodesmium hildebrandtii* Gomont 1892 (980 cells L^{-1})	1	780	*Trichodesmium hildebrandtii* Gomont 1892 (780 cells L^{-1})