

Supplementary Materials

Algae 2024, 39(4): 277-291

<https://doi.org/10.4490/algae.2024.39.12.10>

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Supplementary Table S1. Detailed taxonomic information of the protistan communities characterized at the RT-S and RT-N field stations by 18S rRNA gene amplicon sequencing (<https://www.e-algae.org>).

Supplementary Table S2. Records of the harmful algal blooms caused by the dinoflagellate *Margalefidinium polykrikoides* in South Korean waters

Date	Station	Temperature (°C)	Salinity (psu)	Cell density (cells mL ⁻¹)	Reference
Sep 21, 1995	Kyongju, Pohang	21–22	NA	630–2,200	Suh et al. (2000)
Oct 8, 1995	Samchuk, Donghae	21	NA	300–1,300	Suh et al. (2000)
Sep 15, 1996	Mirukdo	23	NA	200–2,200	Suh et al. (2000)
Sep 15, 1996	Geojedo	23	NA	250–430	Suh et al. (2000)
Sep 15, 1996	Pusan	23	NA	2,500–3,000	Suh et al. (2000)
Sep 25, 1996	Kyongju	23	NA	1,000	Suh et al. (2000)
Aug 26, 1997	Narodo	24	NA	1,000	Suh et al. (2000)
Aug 26, 1997	Tolsando	24	NA	650–2,100	Suh et al. (2000)
Aug 26, 1997	Namhaedo	24	NA	800–1,600	Suh et al. (2000)
Sep 4, 1997	Namhaedo	25	NA	120–1,500	Suh et al. (2000)
Sep 4, 1997	Saryangdo	25	NA	2,000–10,500	Suh et al. (2000)
Sep 4, 1997	Geojedo	25	NA	500–5,000	Suh et al. (2000)
Sep 12, 1997	Narodo	24	NA	300–2,200	Suh et al. (2000)
Sep 12, 1997	Pohang	24	NA	5,100–21,900	Suh et al. (2000)
Sep 13, 1998	Narodo	24	NA	820–10,000	Suh et al. (2000)
Sep 13, 1998	Kumodo	24	NA	630–6,000	Suh et al. (2000)
Aug 29–Oct 13, 1995	Narodo	23.2–24	NA	30–970	Lee et al. (2010)
Sep 5–25, 1996	Narodo	25–26	NA	1,200–1,700	Lee et al. (2010)
Aug 25–Sep 10, 1997	Narodo	26	NA	600–1,500	Lee et al. (2010)
Aug 31–Sep 16, 1998	Narodo	24.7–24.9	NA	300–900	Lee et al. (2010)
Aug 11–Sep 15, 1999	Narodo	26.4–27	NA	24–260	Lee et al. (2010)
Aug 14–Sep 5, 2001	Narodo	24.4–25.2	NA	180–600	Lee et al. (2010)
Aug 2–Sep 18, 2002	Narodo	24–25.9	NA	20–410	Lee et al. (2010)
Aug 13–Sep 7, 2003	Narodo	23.5–24.2	NA	100–800	Lee et al. (2010)
Jul 20–Aug 8, 2005	Narodo	23.1–26.9	NA	100–2,700	Lee et al. (2010)
Aug 7–Oct 19, 2006	Narodo	25–27.1	NA	50–600	Lee et al. (2010)
Jul 27–Sep 4, 2007	Narodo	23.5–25.8	NA	50–250	Lee et al. (2010)
Sep 12–30, 1991	Korea	21.8–24.5	NA	3,000	Lee et al. (2013)
Oct 5–25, 1993	Korea	18.8–23.8	NA	9,800	Lee et al. (2013)
Aug 29–Oct 13, 1995	Korea	19.5–25.5	NA	30,000	Lee et al. (2013)
Aug 25–Sep 18, 1997	Korea	22.5–28	NA	20,000	Lee et al. (2013)
Aug 10–Sep 25, 1999	Korea	22.5–27.7	NA	43,000	Lee et al. (2013)
Aug 14–Sep 20, 2001	Korea	22.5–28.2	NA	32,200	Lee et al. (2013)
Aug 13–Oct 7, 2003	Korea	19.8–28.8	NA	48,000	Lee et al. (2013)
Jul 19–Sep 11, 2005	Korea	20.5–27.5	NA	25,000	Lee et al. (2013)
Jul 31–Sep 14, 2007	Korea	19.9–29.3	NA	32,500	Lee et al. (2013)
Oct 28–Nov 10, 2009	Korea	17.3–24.8	NA	1,700	Lee et al. (2013)
Aug 21, 2003	South Sea	NA	32.20 ± 0.32	1,900 ± 320	Lee and Lee (2006)
Jun 3–9, 2004	Yeosu	18.10–19.99	32.81–33.66	81 ± 5	Lee and Lee (2006)

NA, not available.