**TAXONOMIC APPENDIX**

List of the coccolithophore taxa considered in this study.

*Calcidiscus leptoporus* (Murray and Blackman, 1898) Loeblich and Tappan, 1978

Calciosolenia brasiliensis (Lohmann, 1919) Young, in Young et al.*,* 2003

*Ceratolithus cristatus* Kamptner, 1950

*Coccolithus pelagicus braarudii* (Gaarder, 1962) Geisen *et al*., 2002

*Coccolithus pelagicus pelagicus* (Wallich, 1877) Schiller, 1930

*Emiliania huxleyi* (Lohmann, 1902) Hay and Mohler, in Hay *et al*., 1967

*Gephyrocapsa muellerae* Bréhéret, 1978

*Gephyrocapsa oceanica* Kamptner, 1943

*Gephyrocapsa* sp. (small < 3 μm)

*Helicosphaera carteri* (Wallich, 1877) Kamptner, 1954

*Helicosphaera hyalina* Gaarder, 1970

*Helicosphaera princei* da Gama and Varol, 2013

*Helicosphaera wallichii* (Lohmann, 1902) Okada and McIntyre, 1977

*Pontosphaera japonica* (Takayama, 1967) Nishida, 1971

*Pontosphaera multipora* (Kamptner, 1948 ex Deflandre in Deflandre and Fert, 1954) Roth, 1970

Rhabdosphaera clavigera Murray and Blackman, 1898

Syracosphaera pulchra Lohmann, 1902

*Syracosphaera* sp.

*Umbellosphaera irregularis* Paasche in Markali and Paasche, 1955

*Umbellosphaera tenuis* (Kamptner, 1937) Paasche in Markali and Paasche, 1955

*Umbilicosphaera sibogae* (Weber - van Bosse, 1901) Gaarder, 1970