

Supplementary material

**Table S1:** Zooplankton sampling dates from 2009 to 2011. Aliquot size analysed to estimate parasitized copepod abundances, date and time of sampling, tidal period and copepod taxa infected by *Ellobiopsis chattoni* are provided. \* indicates sampling performed at the protected station (B); -: absence of infected copepods.

Season	Aliquot size	Date	Time (h)	Tide	Infected taxa
Summer 2009	1/8	01/24	10:00	Low	-
	1/10	01/26*	10:20	Low	<i>P. crassirostris</i> , <i>Paracalanus</i> spp., <i>O. hebes</i>
	1/4	01/29	11:00	Low	-
	1/4	01/30	13:15	Low	-
	1/2	07/16	10:40	High	<i>A. lilljeborgii</i>
Winter 2009	1/4	07/18*	09:15	Low	<i>D. oculata</i> , <i>P. crassirostris</i> , <i>Paracalanus</i> spp.,
	1/4	07/22	15:30	Low	<i>P. crassirostris</i> , <i>Paracalanus</i> spp.,
	1/8	07/24	10:30	High	-
	1/5	07/26	09:30	High	<i>P. crassirostris</i> , <i>Paracalanus</i> spp., <i>O. hebes</i>
	1/8	01/12	09:10	Low	<i>A. lilljeborgii</i>
Summer 2010	1/4	01/14	09:20	Low	-
	1/4	01/24	09:00	High	-
	1/2	07/21	08:45	Low	<i>P. crassirostris</i> , <i>Paracalanus</i> spp.,
Winter 2010	1/4	07/23	08:50	Low	-
	1	07/26	08:45	High	<i>P. crassirostris</i> , <i>Paracalanus</i> spp.,
	1/8	07/28	08:40	High	-
	1/8	07/30	08:40	High	<i>A. lilljeborgii</i> , <i>P. crassirostris</i> , <i>Paracalanus</i> spp.,
	1/4	08/01	08:15	High	-
	1/2	01/17	08:45	High	<i>A. lilljeborgii</i> , <i>O. hebes</i>
Summer 2011	1/4	01/19	08:30	High	<i>O. hebes</i>
	1/4	01/21	08:40	High	-
	1/2	01/24	08:45	High	<i>P. crassirostris</i> , <i>Paracalanus</i> spp.,

**Table S2:** Pelagic copepod species found off Ubatuba, SE Brazil during 2009-2011. \*: host species for *Ellobiopsis chattoni*.

Taxa	Taxa
<b>Calanidae</b> (Dana, 1849)	<b>Acartidae</b> Sars, 1903
<i>Calanoides carinatus</i> (Kröyer, 1849)	<i>Acartia lilljeborgii</i> Giesbrecht, 1889*
<i>Nannocalanus minor</i> (Claus, 1863)	<i>A. tonsa</i> Dana, 1849
<i>Undinula vulgaris</i> (Dana, 1849)	<b>Oithonidae</b> Dana, 1853
<i>Neocalanus</i> sp Sars, 1925	<i>Dioithona oculata</i> (Farran, 1913)*
<b>Paracalanidae</b> Giesbrecht, 1892	<i>Oithona hebes</i> (Giesbrecht, 1891)*
<i>Acrocalanus</i> sp Giesbrecht, 1888	<i>O. nana</i> Giesbrecht, 1892
<i>Calocalanus pavo</i> (Dana, 1848)	<i>Oithona plumifera</i> Baird, 1843*
<i>C. pavoninus</i> Farran, 1936	<i>O. simplex</i> (Farran, 1913)
<i>Calocalanus</i> sp Giesbrecht, 1888	<b>Oncaeidae</b> Giesbrecht, 1893
<i>Paracalanus aculeatus</i> Giesbrecht, 1888*	<i>O. mediterranea</i> (Claus, 1863)
<i>P. indicus</i> Wolfenden, 1905	<i>O. curta</i> Sars, 1916
<i>P. nanus</i> Sars, 1925	<i>Oncaea venusta</i> Philippi, 1843
<i>P. quasimodo</i> Bowman, 1971*	<i>Monothula subtilis</i> (Giesbrecht, 1891)
<i>Paracalanus</i> sp. Boeck, 1865*	<i>Triconia conifera</i> (Giesbrecht, 1891)
<i>Parvocalanus crassirostris</i> Andronov, 1970*	<b>Sapphirinidae</b> Thorell, 1859
<b>Mecynoceridae</b> Thompson, 1888	<i>Sapphirina nigromaculata</i> Claus, 1863
<i>Mecynocera clausii</i> Thompson, 1888	<i>Sapphirina</i> sp Thompson, 1829
<b>Eucalanidae</b> Giesbrecht, 1892	<i>Copilia mirabilis</i> Dana, 1849
<i>Subeucalanus pileatus</i> (Giesbrecht, 1888)	<b>Corycaeidae</b> (Dana, 1852)
<i>S. crassus</i> (Giesbrecht, 1888)	<i>Corycaeus speciosus</i> (Dana, 1842)
<b>Clausocalanidae</b> Giesbrecht, 1892	<i>Ditrichocorycaeus amazonicus</i> (F. Dahl, 1894)
<i>Clausocalanus furcatus</i> (Brady, 1883)	<i>Farranula gracilis</i> (Dana, 1853)
<i>Ctenocalanus</i> sp (Giesbrecht, 1888)	<i>Onychocorycaeus giesbrechti</i> (F. Dahl, 1894)
<i>C. cf heronae</i> Vega-Perez & Bowman, 1992	<b>Clausidiidae</b> Emblenton, 1901
<b>Euchaetidae</b> Giesbrecht, 1892	<i>Hemicyclops thalassius</i> Vervoot & Ramirez, 1966
<i>Euchaeta marina</i> (Prestandrea, 1883)	<i>Saphirella</i> spp. T. Scott, 1894
<b>Scolecitrichidae</b> Giesbrecht, 1892	<b>Ectinosomatidae</b> Oloffson, 1917
<i>Scolecithix</i> sp Brady, 1883	<i>Microsetella novergica</i> (Dana, 1847)
<b>Metridinidae</b> Sars, 1902	<i>M. rosea</i> (Dana, 1847)
<i>Pleurommama</i> sp Giesbrecht & Schmeil, 1898	<b>Miraciidae</b> Dana, 1846
<b>Centropagidae</b> Giesbrecht, 1892	<i>Macrosetella gracilis</i> (Dana, 1848)
<i>Centropages velificatus</i> de Oliveira, 1946	<b>Euterpinae</b> Brian, 1921
<b>Pseudodiaptomidae</b> Sars, 1902	<i>Euterpina acutifrons</i> (Dana, 1852)
<i>Pseudodiaptomus acutus</i> (F. Dahl, 1894)	<b>Clytemnestridae</b> Scott, 1909
<b>Temoridae</b> (Giesbrecht, 1849)	<i>Clytemnestra scutellata</i> Dana, 1848
<i>Temora stylifera</i> (Dana, 1849)	<b>Longipediidae</b> Sars, 1903
<i>T. turbinata</i> (Dana, 1849)	<i>Longipedia americana</i> Wells, 1980
<b>Candaciidae</b> Giesbrecht, 1892	<b>Monstriloida</b>
<i>Candacia</i> sp Dana, 1846	<i>Monstrilla</i> sp Dana, 1849
<b>Pontellidae</b> Dana, 1853	<i>Cymbasoma</i> sp Thompson, 1888
<i>Labidocera acutifrons</i> (Dana, 1849)	
<i>L. fluviatilis</i> F. Dahl, 1894	
<i>Calanopia americana</i> F. Dahl, 1894	
<i>Pontellopsis brevis</i> (Giesbrecht, 1889)	