

**Anexo II.5-3 - Inventário florístico. Composição taxonômica do fitoplâncton obtido nas Campanhas de Monitoramento de Marlim Leste, Marlim Sul, Barracuda-Caratinga, Espadarte, PDET/AMEG e Cabiúnas.**

| TÁXON - MICROFITOPLÂNCTON                                       | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|---|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <b>CYANOPHYCEAE</b>   |                 |                 |                 |                        |           |           |          |
| <i>Anabaena</i> spp.  |                 |                 |                 |                        |           |           | X        |
| <i>Johannesbaptistia pellucida</i> Taylor & Drouet              |                 |                 | X               |                        | X         |           |          |
| <i>Katagnyneme</i> sp. Lemmermann                               |                 |                 |                 | X                      |           |           |          |
| Nostocales  | X               | X               |                 | X                      |           |           |          |
| <i>Oscillatoria</i> spp.  |                 |                 |                 |                        |           |           | X        |
| <i>Oscillatoria</i> cf. <i>luten</i>                            |                 |                 |                 |                        |           |           | X        |
| Oscillatoriales   |                 |                 |                 | X                      |           |           |          |
| Phormidiaceae   | X               | X               | X               |                        |           | X         |          |
| <i>Richelia intercellularis</i> J. Schmidt                      | X               | X               |                 | X                      |           |           |          |
| <i>Tyconema</i> sp. Anagnostidis & Komárek                      |                 |                 |                 |                        |           |           |          |
| <i>Trichodesmium hildebrandtii</i> Gomont ex Kosinskaja         | X               |                 | X               | X                      | X         |           |          |
| <i>Trichodesmium thiebautii</i> Gomont ex Gomont                | X               |                 | X               |                        |           |           |          |
| <i>Trichodesmium</i> cf. <i>thiebautii</i> Gomont ex. Gomont    |                 |                 |                 | X                      |           |           |          |
| <i>Trichodesmium</i> cf. <i>erytraerum</i> Gomont ex Kosinskaja |                 |                 |                 |                        |           |           |          |
| <i>Tyconema</i> sp. Anagnostidis & Komarek                      |                 |                 |                 | X                      |           |           |          |
| <i>Tyconema bornetii</i> (Bukal) Anagnostidis & Komarek         |                 |                 |                 | X                      |           |           |          |
| <b>CHLOROPHYCEAE</b>  |                 |                 |                 |                        |           |           |          |
| Cloroficea  |                 |                 |                 |                        |           |           | X        |
| <b>PRYMNESIOPHYCEAE (Cocolitoforídeos)</b>                      |                 |                 |                 | X                      |           |           |          |
| <i>Achradina</i> spp.   |                 |                 |                 |                        |           |           | X        |
| <i>Anoplosolenia</i> spp.                                       |                 |                 |                 |                        |           |           | X        |
| <i>Anoplosolenia brasiliensis</i> (Lohmann) Deflandre           | X               | X               | X               | X                      | X         | X         |          |
| <i>Calciosolenia</i> spp.                                       |                 |                 |                 |                        |           |           | X        |
| cf. <i>Calciosolenia granii</i> Schiller                        |                 |                 |                 |                        |           |           |          |
| <i>Calciosolenia murrayi</i> Gran                               | X               | X               | X               |                        |           | X         |          |
| cf. <i>Calciosolenia murrayi</i> Gran                           |                 |                 |                 |                        |           |           |          |
| <i>Calyptrosphaera oblonga</i>                                  |                 |                 | X               |                        |           |           |          |
| cf. <i>Calyptrosphaera</i> sp. Lohmann                          |                 |                 |                 | X                      |           |           |          |
| <i>Coccolithus</i> sp. Schwarz                                  | X               |                 | X               |                        |           |           | X        |

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Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| cf. <i>Coccolithus</i> sp. Schwarz   | X               |                 | X               |                        |           |           |          |
| Coccosphaerales  |                 |                 |                 |                        |           | X         |          |
| Cocolitoforídeos   |                 |                 |                 |                        |           |           |          |
| <i>Coronosphaera</i> spp. Gaarder  |                 |                 | X               |                        |           |           |          |
| cf. <i>Coronosphaera</i> sp. Gaarder   |                 |                 |                 | X                      |           |           |          |
| <i>Coronosphaera</i> cf. <i>maxima</i> (Halldal & Markali) Gaarder                   |                 |                 |                 |                        |           |           |          |
| <i>Daktylethra</i> cf. <i>pirus</i> (Kamptner) RE.Norris                             | X               | X               | X               | X                      |           | X         |          |
| <i>Discosphaera thomsoni</i> Ostenfeld   |                 |                 |                 |                        |           | X         |          |
| <i>Discosphaera tubifera</i> (Murray & Blackman) Ostenfeld                           | X               |                 |                 | X                      |           |           | X        |
| <i>Haloppapus</i> spp. Lohmann   |                 |                 |                 | X                      |           | X         |          |
| cf. <i>Hemiella</i> sp. Lohmann  |                 |                 |                 | X                      |           |           |          |
| <i>ingosphaera</i> spp   |                 |                 |                 |                        |           |           |          |
| <i>Michaelsarsia</i> sp.   |                 |                 |                 |                        |           |           |          |
| cf. <i>Polycrater</i> sp. Manton & Oates   | X               |                 |                 |                        |           |           |          |
| <i>Pontosphaera</i> cf. <i>discopora</i> Schiller                                    | X               |                 | X               |                        |           |           |          |
| <i>Pontosphaera syracusana</i> Lohmann   |                 | X               |                 |                        |           |           |          |
| <i>Rhabdosphaera</i> sp. Haeckel   |                 | X               | X               |                        |           |           |          |
| <i>Rhabdosphaera claviger</i> Murray & Blackman                                      |                 |                 | X               | X                      |           | X         |          |
| <i>Scyphosphaera apsteinii</i> Lohmann   |                 |                 | X               | X                      |           |           |          |
| <i>Syracosphaera</i> spp. Lohmann  | X               |                 | X               |                        |           |           |          |
| <i>Syracosphaera</i> cf. <i>pirus</i> Halldal & Markali                              |                 |                 |                 | X                      |           |           |          |
| <i>Syracosphaera prolongata</i> Gran ex Lohmann, emend. Heimdel & Gaarder            |                 |                 |                 | X                      |           | X         |          |
| <i>Syracosphaera</i> cf. <i>prolongata</i> Gran ex Lohmann, emend. Heimdel & Gaarder |                 |                 |                 | X                      |           |           |          |
| <i>Syracosphaera pulchra</i> Gran ex Lohmann, emend. Heimdel & Gaarder               |                 |                 |                 | X                      |           |           |          |
| <b>CRIOPTOPHYCEA</b>   |                 |                 |                 |                        |           |           |          |
| Criptophyceae  |                 |                 |                 |                        |           |           | X        |
| <b>BACILLARIOPHYCEAE (Diatomáceas)</b>   |                 |                 |                 |                        |           |           |          |
| <i>Actinopterychus</i> sp.   |                 |                 |                 |                        |           | X         |          |
| <i>Amphiprora</i> sp.  |                 |                 |                 |                        | X         |           |          |
| <i>Amphora</i> sp. Ehrenberg   |                 |                 |                 | X                      |           |           |          |
| cf. <i>Asterionella kariana</i> (Grunow) Round                                       |                 |                 |                 |                        |           |           |          |
| <i>Asterionellopsis glacialis</i> (Castracane) Round                                 |                 |                 |                 |                        | X         | X         |          |

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## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Asterionellopsis kariana</i> Grunow (in Cleve & Grunow) Round |                 |                 |                 | X                      |           |           |          |
| <i>Asterolampra marylandica</i> Ehrenberg                        |                 | X               |                 |                        |           |           |          |
| <i>Asteromphalus</i> sp. Ehrenberg                               | X               |                 |                 | X                      |           | X         |          |
| <i>Asteromphalus arachne</i> (Brébisson) Ralfs in Pritchard      |                 |                 |                 | X                      |           |           |          |
| <i>Asteromphalus flabellatus</i> (Brébisson) Greville            |                 |                 |                 |                        |           |           | X        |
| <i>Asteromphalus</i> cf. <i>flabellatus</i> (Brébisson) Greville |                 |                 |                 | X                      |           |           |          |
| <i>Asteromphalus</i> cf. <i>heptactis</i> Brébisson              |                 |                 |                 |                        |           |           |          |
| <i>Asteromphalus</i> cf. <i>hookeri</i> Ehrenberg                |                 |                 |                 | X                      |           |           |          |
| <i>Asteromphalus hyalinus</i> Karsten                            |                 |                 |                 | X                      |           |           |          |
| <i>Aulacoseira</i> sp.   |                 |                 | X               |                        |           |           |          |
| <i>Bacillaria paxillifera</i> (O. F.Müller) Hendeby              |                 | X               | X               |                        |           |           | X        |
| Bacillariales  |                 |                 |                 | X                      |           |           |          |
| <i>Bacteriastrum</i> spp. Shadbolt                               |                 |                 |                 | X                      |           | X         |          |
| <i>Bacteriastrum comosum</i> Pavillard                           |                 |                 |                 | X                      |           |           |          |
| <i>Bacteriastrum</i> cf. <i>comosum</i> Pavillard                |                 |                 |                 |                        | X         |           |          |
| <i>Bacteriastrum delicatulum</i> Cleve                           |                 |                 | X               | X                      |           | X         | X        |
| <i>Bacteriastrum</i> cf. <i>delicatulum</i> Cleve                |                 |                 |                 |                        | X         | X         |          |
| <i>Bacteriastrum elongatum</i> Cleve                             | X               |                 |                 | X                      |           | X         |          |
| <i>Bacteriastrum</i> cf. <i>elongatum</i> Cleve                  |                 |                 |                 |                        | X         |           |          |
| <i>Bacteriastrum furcatum</i>                                    |                 |                 |                 |                        |           | X         |          |
| <i>Bacteriastrum hyalinum</i> (Lauder) Gran & Yendo              |                 |                 |                 |                        |           | X         | X        |
| <i>Bacteriastrum</i> cf. <i>hyalinum</i> Lauder                  | X               |                 | X               |                        |           |           |          |
| cf. <i>Bleakeleya notata</i> (Grunow) Round                      |                 |                 |                 |                        |           |           |          |
| Diatomácea cêntrica  |                 |                 | X               | X                      |           |           |          |
| <i>Cerataulina dentata</i> (Hasle) in Hasle & Syvertsen          |                 |                 |                 | X                      |           | X         |          |
| <i>Cerataulina</i> cf. <i>dentata</i> Hasle                      |                 |                 | X               |                        |           |           |          |
| <i>Cerataulina pelagica</i> (Cleve) Hendeby                      |                 | X               |                 | X                      | X         |           | X        |
| <i>Chaetoceros</i> cf. <i>borealis</i> Bailey                    |                 |                 |                 |                        | X         |           |          |
| Chaetoceraceae   |                 |                 |                 |                        |           | X         |          |
| <i>Chaetoceros</i> spp. Ehrenberg                                | X               |                 | X               | X                      |           | X         | X        |
| <i>Chaetoceros aequatorialis</i> Cleve                           |                 |                 |                 | X                      |           | X         |          |
| <i>Chaetoceros</i> cf. <i>aequatorialis</i> Cleve                |                 |                 | X               |                        |           |           |          |

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## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                                    | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIUNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Chaetoceros affinis</i> Lauder                            |                 |                 |                 | X                      |           |           | X        |
| <i>Chaetoceros affinis</i> var. <i>willei</i> (Lauder) Cleve |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros atlanticus</i> Cleve                          |                 |                 | X               | X                      |           |           |          |
| <i>Chaetoceros</i> cf. <i>atlanticus</i> Cleve               |                 |                 |                 |                        | X         | X         |          |
| <i>Chaetoceros brevis</i> Schütt                             |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros</i> cf. <i>buceros</i>                        |                 |                 |                 |                        |           |           |          |
| <i>Chaetoceros</i> cf. <i>castracanei</i> Karsten            |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros coarctatus</i> Lauder                         |                 |                 |                 |                        | X         |           | X        |
| <i>Chaetoceros compressus</i> Lauder                         |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros</i> cf. <i>compressum</i> Lauder              |                 |                 | X               |                        |           |           |          |
| <i>Chaetoceros</i> cf. <i>concavicornis</i> Mangin           |                 |                 | X               | X                      |           | X         |          |
| <i>Chaetoceros</i> cf. <i>constrictus</i> Gran               |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros convolutus</i> Castracane                     |                 |                 |                 | X                      |           |           |          |
| <i>Chaetoceros</i> cf. <i>costatus</i> Pavillard             |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros curvisetus</i> Cleve                          |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros</i> cf. <i>curvisetus</i> Cleve               |                 |                 |                 |                        | X         | X         |          |
| <i>Chaetoceros daday</i> Pavillard                           |                 |                 |                 | X                      |           |           |          |
| <i>Chaetoceros danicus</i> Cleve                             |                 |                 | X               | X                      | X         | X         | X        |
| <i>Chaetoceros decipiens</i> Cleve                           |                 |                 |                 |                        |           | X         | X        |
| <i>Chaetoceros</i> cf. <i>debilis</i> Cleve                  |                 |                 |                 | X                      |           |           |          |
| <i>Chaetoceros</i> cf. <i>decipiens</i> Cleve                |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros</i> cf. <i>densus</i> Cleve                   |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros</i> cf. <i>diadema</i> (Ehrenberg)            |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros dichaeta</i> Ehrenberg                        |                 |                 |                 | X                      |           |           |          |
| <i>Chaetoceros</i> cf. <i>dichaeta</i> Ehrenberg             |                 |                 |                 |                        |           |           |          |
| <i>Chaetoceros didymum</i> Ehrenberg                         |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros</i> cf. <i>didymum</i> Ehrenberg              |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros diversus</i> Cleve                            |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros</i> cf. <i>diversus</i> Cleve                 |                 | X               |                 |                        |           |           |          |
| <i>Chaetoceros externus</i> Gran                             |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros laevis</i> Leuduger-Fortmorel                 |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros</i> cf. <i>lauder</i> Ralfs                   |                 |                 |                 |                        |           |           |          |
| <i>Chaetoceros lorenzianus</i> Grunow                        |                 |                 |                 |                        | X         |           | X        |

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Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                                   | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|---|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Chaetoceros cf. lorenzianus</i> Grunow                   |                 |                 |                 |                        |           |           |          |
| <i>Chaetoceros pelagicus</i> Cleve                          |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros peruvianus</i> Brightwell                    |                 |                 |                 | X                      | X         | X         | X        |
| <i>Chaetoceros cf. peruvianus</i>                           |                 |                 | X               |                        |           |           |          |
| <i>Chaetoceros pseudocurvisetus</i> Mangin                  |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros cf. pseudocurvisetus</i> Mangin              |                 |                 |                 |                        |           |           |          |
| <i>Chaetoceros simplex</i>                                  |                 |                 |                 |                        |           | X         |          |
| <i>Chaetoceros cf. socialis</i> Lauder                      |                 |                 |                 |                        | X         |           |          |
| <i>Chaetoceros cf. tenuissimus</i>                          |                 |                 |                 |                        |           | X         |          |
| <i>Chaetoceros teres</i> Cleve                              |                 |                 |                 |                        |           |           | X        |
| <i>Chaetoceros cf. teres</i> Cleve                          |                 |                 |                 |                        | X         | X         |          |
| <i>Chaetoceros tetrastichon</i> Cleve                       |                 |                 | X               | X                      |           | X         |          |
| <i>Chaetoceros cf. affinis</i> Lauder                       |                 |                 | X               |                        |           | X         |          |
| <i>Climacodium frauenfeldianum</i> Grunow                   |                 |                 |                 | X                      |           |           | X        |
| <i>Corethron criophilum</i> Castracane                      |                 |                 | X               |                        |           | X         | X        |
| <i>Corethron cf. hystrix</i> Hensen                         |                 |                 |                 |                        | X         |           |          |
| Coscinodiscophycidae  |                 |                 |                 |                        |           |           |          |
| <i>Coscinodiscus</i> spp. Ehrenberg                         | X               | X               | X               | X                      |           | X         | X        |
| <i>Coscinodiscus cf. centralis</i> Ehrenberg                |                 |                 |                 | X                      |           |           |          |
| <i>Coscinodiscus janischii</i> Schmidt                      |                 |                 |                 |                        |           |           | X        |
| <i>Coscinodiscus oculus-iridis</i> Ehrenberg                |                 |                 |                 |                        |           |           | X        |
| <i>Coscinodiscus cf. perforatus</i>                         |                 |                 | X               |                        |           |           |          |
| <i>Coscinodiscus cf. radiolatus</i>                         |                 |                 |                 | X                      |           |           |          |
| <i>Cylindrotheca cf. closterium</i> Ehrenberg               |                 | X               |                 |                        |           |           |          |
| <i>Cylindrotheca closterium</i> (Ehrenberg) Lewin & Reimann | X               |                 | X               | X                      | X         | X         | X        |
| <i>Cymatosira lorenziana</i> Grunow                         |                 |                 |                 |                        |           |           | X        |
| Soleniaceae   |                 |                 |                 | X                      |           |           |          |
| <i>Dactyliosolen blavyanus</i>                              |                 |                 |                 |                        |           | X         |          |
| <i>Dactyliosolen fragilissimus</i> (Bergon) Hasle           |                 |                 |                 |                        |           |           | X        |
| <i>Dactyliosolen cf. fragilissimus</i> (Bergon) Hasle       |                 |                 |                 |                        | X         |           |          |
| <i>Dactyliosolen phuketensis</i> (Sundström) Hasle          | X               |                 | X               | X                      |           | X         |          |
| <i>Delphineis surirella</i> (Ehrenberg) G. W. Andrews       |                 |                 |                 |                        |           |           | X        |
| cf. <i>Detonula confervacea</i> (Cleve) Gran                |                 |                 |                 | X                      |           |           |          |

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## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                                       | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIUNAS |
|---|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Detonula pulmilla</i> (Castracane) Gran                      |                 |                 |                 |                        |           |           | X        |
| <i>Diploneis</i> spp. Cleve                                     |                 |                 | X               | X                      |           |           | X        |
| <i>Diploneis bombus</i> var. <i>bombiformis</i> (Cleve) Hustedt |                 |                 |                 |                        |           |           | X        |
| <i>Diploneis chersonensis</i> (Grunow) Cleve                    |                 |                 |                 |                        |           |           | X        |
| <i>Ditylum brightwelli</i> (West) Grunow                        |                 |                 |                 |                        |           | X         | X        |
| <i>Entomoneis alata</i> (Ehrenberg) Ehrenberg                   |                 |                 |                 |                        |           |           | X        |
| <i>Eucampia</i> sp.   |                 |                 |                 |                        |           | X         |          |
| <i>Eucampia cornuta</i> (Cleve) Grunow                          |                 |                 | X               |                        |           | X         | X        |
| <i>Eucampia</i> cf. <i>cornuta</i>                              |                 |                 | X               |                        |           |           |          |
| <i>Eucampia</i> cf. <i>groelandica</i> Cleve                    |                 |                 |                 | X                      |           |           |          |
| <i>Eucampia zodiacus</i> f. <i>cylindricornis</i> Syvertsen     |                 |                 |                 |                        | X         | X         |          |
| <i>Eucampia zoodiacus</i> Ehrenberg                             |                 |                 |                 |                        | X         |           |          |
| Fragilariineae  | X               |                 | X               | X                      |           | X         |          |
| <i>Fragilariopsis</i> cf. <i>kergulensis</i> (O'Meara) Hustedt  |                 |                 |                 |                        | X         |           |          |
| <i>Fragilariopsis</i> cf. <i>oceanica</i> (Cleve) Hasle         |                 |                 |                 |                        | X         |           |          |
| <i>Fragillaria</i> spp.   |                 |                 |                 |                        |           |           | X        |
| <i>Glossleriella tropica</i> Schutt                             | X               |                 | X               | X                      | X         | X         |          |
| <i>Grammatophora</i> cf. <i>flexuosa</i>                        |                 |                 | X               |                        |           |           |          |
| <i>Guinardia</i> spp. H. Peragallo                              |                 |                 | X               | X                      |           |           |          |
| Soleniaceae   |                 |                 | X               |                        |           | X         |          |
| <i>Guinardia cylindrus</i> (Cleve) Hasle                        | X               |                 |                 |                        |           |           |          |
| <i>Guinardia</i> cf. <i>cylindrus</i> (Cleve) Hasle             |                 |                 |                 |                        | X         |           |          |
| <i>Guinardia delicatula</i> (Cleve) Hasle                       |                 |                 |                 | X                      |           | X         | X        |
| <i>Guinardia</i> cf. <i>delicatula</i> (Cleve) Hasle            |                 |                 |                 |                        | X         |           |          |
| <i>Guinardia flaccida</i> (Castracane) H. Peragallo             |                 |                 |                 | X                      | X         | X         | X        |
| <i>Guinardia striata</i> (Stolterfoth) Hasle                    |                 |                 | X               | X                      | X         | X         | X        |
| <i>Guinardia</i> cf. <i>striata</i> Stolterfoth                 |                 | X               |                 |                        |           |           |          |
| <i>Haslea wawrikan</i> (Hustedt) Simonsen                       |                 | X               | X               | X                      |           | X         | X        |
| <i>Helicotheca tamesis</i> (Shrubsole) Ricard                   |                 |                 |                 |                        |           |           |          |
| Hemiaulaceae  |                 |                 |                 |                        |           | X         |          |
| <i>Hemiaulus</i> sp.  |                 |                 |                 |                        |           | X         |          |
| <i>Hemiaulus hauckii</i> Grunow                                 | X               | X               |                 | X                      | X         | X         | X        |
| <i>Hemiaulus</i> cf. <i>indicus</i> Karsten                     |                 |                 |                 |                        | X         |           |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Hemiaulus membranaceus</i> Cleve                                      | X               |                 | X               | X                      |           | X         |          |
| <i>Hemiaulus sinensis</i> Greville                                       |                 |                 | X               | X                      | X         | X         | X        |
| <i>Hemiaulus</i> cf. <i>sinensis</i> Greville                            |                 |                 | X               |                        |           |           |          |
| <i>Lampriscus orbiculatum</i> (Shadbolt) Peragallo                       |                 |                 |                 |                        |           |           | X        |
| <i>Leptocylindricus mediterraneus</i> Peragallo                          |                 |                 |                 |                        |           | X         |          |
| <i>Leptocylindrus danicus</i> Cleve                                      | X               | X               | X               | X                      | X         | X         | X        |
| <i>Leptocylindrus</i> cf. <i>danicus</i> Cleve                           |                 |                 | X               |                        |           |           |          |
| <i>Leptocylindrus mediterraneus</i> (H. Peragallo) Hasle                 | X               | X               | X               | X                      | X         |           |          |
| <i>Leptocylindrus minimus</i> Gran                                       | X               | X               | X               | X                      | X         | X         |          |
| <i>Licmophora</i> spp. Agardh  |                 |                 | X               | X                      |           |           |          |
| <i>Lioloma</i> sp.   |                 |                 |                 |                        |           | X         |          |
| cf. <i>Lioloma</i> sp.   |                 |                 |                 |                        |           | X         |          |
| <i>Lioloma elongatum</i> (Grunow) Hasle comb. nov.                       |                 |                 |                 |                        |           | X         |          |
| <i>Lioloma</i> cf. <i>elongatum</i> (Grunow) Hasle comb. nov.            |                 |                 |                 |                        |           |           |          |
| <i>Lioloma pacificum</i> (Cupp) Hasle                                    |                 |                 |                 |                        |           | X         |          |
| <i>Lioloma</i> cf. <i>pacificum</i> (Cupp) Hasle                         |                 |                 | X               | X                      |           |           |          |
| <i>Mastogloia</i> spp. Wallich   |                 |                 |                 | X                      |           | X         |          |
| <i>Mastogloia</i> cf. <i>rostrata</i> (Wallich) Hustedt                  |                 |                 |                 | X                      | X         |           |          |
| cf. <i>Mastogloia thwaites</i> ex. W. Smith                              |                 | X               |                 |                        |           | X         |          |
| <i>Melosira</i> spp. C. A. Agradh  |                 |                 |                 | X                      |           |           |          |
| Coscinodiscineae   |                 |                 |                 |                        |           | X         |          |
| <i>Melosira nummuloides</i> C. A. Agardh                                 |                 |                 |                 |                        |           |           | X        |
| <i>Meuniera membranacea</i> (Cleve) P. C. Silva                          |                 |                 |                 |                        |           |           | X        |
| <i>Navicula</i> spp. Bory  |                 |                 | X               | X                      |           | X         | X        |
| <i>Navicula</i> cf. <i>transitrans</i> var. <i>derasa</i> (Grunow) Cleve |                 |                 |                 |                        | X         |           |          |
| Naviculaceae Kützinger   | X               | X               | X               | X                      |           | X         |          |
| <i>Neostreptothecha subindica</i> Von Stosch                             |                 |                 |                 |                        |           |           | X        |
| <i>Nitzschia</i> spp. Hassall  |                 |                 | X               | X                      |           | X         |          |
| <i>Nitzschia longissima</i> (Brebisson) Grunow                           |                 |                 | X               | X                      |           |           | X        |
| <i>Nitzschia</i> cf. <i>longissima</i> (Brebisson) Grunow                |                 |                 |                 |                        | X         |           |          |
| cf. <i>Nitzschia longissima</i> (Brebisson) Grunow                       |                 |                 |                 |                        |           | X         |          |
| <i>Nitzschia lanceolata</i> W. Smith                                     |                 |                 |                 | X                      |           |           |          |
| <i>Nitzschia</i> cf. <i>panduriformes</i> Gregory                        |                 |                 |                 |                        | X         |           |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIUNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Nitzschia rigida</i> (Kutzing) Peragallo                            |                 |                 |                 | X                      |           |           |          |
| <i>Nitzschia sicula</i> (Castracane) Husted                            |                 |                 |                 | X                      |           |           |          |
| <i>Odontella</i> cf. <i>aurita</i> (Lingbye) C. A. Agardh              |                 |                 |                 |                        |           | X         |          |
| <i>Odontella mobilienses</i> Grunow (= <i>Biddulphia mobiliensis</i> ) |                 |                 |                 |                        |           | X         |          |
| <i>Odontella</i> cf. <i>regia</i> (Schultze) Simonsens                 |                 |                 |                 |                        | X         |           |          |
| <i>Odontella sinensis</i> (Greville) Grunow                            |                 |                 |                 |                        |           |           | X        |
| <i>Palmeria</i> cf. <i>hardmaniana</i> Greville                        |                 | X               |                 |                        |           |           |          |
| <i>Paralia sulcata</i> (Ehrenberg) (= <i>Melosira sulcata</i> ) Cleve  |                 | X               | X               | X                      | X         | X         | X        |
| <i>Phaeodactylum tricornutum</i> Bohlin                                |                 |                 |                 |                        |           |           | X        |
| <i>Planktoniella sol</i> (Wallich) Schütt                              | X               |                 |                 | X                      | X         |           |          |
| Naviculales ( <i>Pleurosigma</i> / <i>Gyrosigma</i> )                  | X               | X               | X               | X                      |           | X         | X        |
| <i>Pleurosigma</i> spp. W. Smith                                       |                 |                 |                 |                        |           |           |          |
| <i>Pleurosigma angulatum</i> W. Smith                                  |                 |                 |                 |                        |           |           | X        |
| <i>Pleurosigma naviculaceum</i> Brebisson                              |                 |                 |                 |                        |           |           | X        |
| <i>Pleurosigma normanii</i> Ralfs                                      |                 |                 |                 |                        |           |           | X        |
| <i>Proboscia alata</i> (Brightwell) Sundström                          | X               | X               | X               | X                      | X         | X         | X        |
| <i>Pseudoguinaridia recta</i> von Stosch                               |                 |                 |                 |                        |           |           |          |
| <i>Pseudo-nitzschia "delicatissima"</i> (Cleve) Heiden                 | X               |                 | X               | X                      |           | X         | X        |
| <i>Pseudo-nitzschia "seriata"</i> (Cleve) H. Peragallo                 |                 | X               | X               | X                      |           | X         |          |
| <i>Pseudo-nitzschia</i> cf. <i>fraudulenta</i> (Cleve) Hasle           |                 |                 |                 |                        |           |           |          |
| <i>Pseudosolenia calcar-avis</i> (Schultze) Sundstrom                  |                 |                 | X               | X                      | X         | X         | X        |
| cf. <i>Raphoneis</i> Ehrenberg   |                 |                 |                 |                        |           |           |          |
| <i>Rhabdosphaera</i> sp. Haeckel                                       |                 |                 |                 | X                      |           |           |          |
| <i>Rhizosolenia</i> spp. Brightwell                                    |                 |                 |                 |                        |           |           | X        |
| <i>Rhizosolenia</i> cf. <i>acicularis</i> Sundstrom                    |                 |                 |                 | X                      |           |           |          |
| <i>Rhizosolenia</i> cf. <i>acuminata</i> (H. Peragalo) Gran            |                 |                 |                 |                        |           |           |          |
| <i>Rhizosolenia bergonii</i> H. Peragallo                              |                 |                 |                 |                        |           |           | X        |
| <i>Rhizosolenia</i> cf. <i>bergonii</i> H. Peragallo                   |                 |                 |                 | X                      |           |           |          |
| <i>Rhizosolenia castracanei</i> var. <i>castracanei</i>                |                 | X               |                 |                        |           |           |          |
| <i>Rhizosolenia</i> cf. <i>curvata</i> Zacharias                       |                 |                 |                 |                        | X         |           |          |
| <i>Rhizosolenia hebetata</i> f. <i>semispina</i> (Hensen) Gran         | X               |                 | X               | X                      | X         |           |          |
| <i>Rhizosolenia hebetata</i> Bailey                                    |                 |                 |                 | X                      |           |           | X        |

(continua)



## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Rhizosolenia cf. hebetata</i> Bailey                          |                 | X               |                 |                        |           |           |          |
| <i>Rhizosolenia cf. hyalina</i> Ostenfeld in Ostenfeld & Schmidt |                 |                 |                 |                        |           |           |          |
| <i>Rhizosolenia imbricata</i> Brightwell                         | X               |                 | X               |                        | X         |           | X        |
| <i>Rhizosolenia cf. imbricata</i> Brightwell                     |                 |                 |                 |                        |           | X         |          |
| <i>Rhizosolenia indica</i> Cleve                                 |                 |                 |                 |                        |           |           | X        |
| <i>Rhizosolenia pungens</i> Cleve-Euler                          |                 |                 |                 |                        |           |           | X        |
| <i>Rhizosolenia cf. pungens</i> Cleve-Euler                      |                 |                 |                 |                        | X         |           |          |
| <i>Rhizosolenia robusta</i> Norman                               |                 |                 |                 |                        | X         | X         | X        |
| <i>Rhizosolenia setigera</i> Brightwell                          |                 |                 | X               |                        | X         | X         | X        |
| <i>Rhizosolenia cf. setigera</i> Brightwell                      |                 |                 |                 | X                      |           |           |          |
| <i>Rhizosolenia styliformis</i> Brightwell                       | X               | X               |                 |                        |           |           | X        |
| <i>Rhizosolenia cf. styliformis</i> Brightwell                   |                 |                 |                 | X                      |           |           |          |
| <i>Roperia tessellata</i> (Roper) Grunow                         |                 |                 |                 |                        |           |           | X        |
| <i>Schroederella cf. schroederi</i> (Bergon) Pavillard           |                 |                 |                 |                        | X         |           |          |
| <i>Scyphosphaera apsteinii</i> Lohmann                           |                 |                 |                 | X                      |           |           |          |
| <i>Skeletonema costatum</i> (Greville) Cleve                     | X               |                 | X               |                        |           |           | X        |
| <i>Surirella</i> sp.   |                 |                 | X               |                        |           |           |          |
| <i>Surirella elongata</i>  |                 |                 |                 |                        |           | X         |          |
| <i>Synedra</i> spp. Ehrenberg                                    |                 |                 |                 |                        |           |           | X        |
| cf. <i>Synedra</i> spp. Ehrenberg                                |                 |                 |                 | X                      |           |           |          |
| <i>Synedra affinis</i> var. <i>tabulata</i>                      |                 |                 |                 |                        |           |           | X        |
| <i>Thalassionema nitzschioides</i> (Grunow) Mereschkowsky        | X               | X               | X               | X                      | X         | X         |          |
| <i>Thalassionema frauenfeldii</i> (Grunow) Hallegraeff           |                 |                 |                 |                        |           |           | X        |
| <i>Thalassionema cf. frauenfeldii</i> (Grunow) Hallegraeff       |                 |                 | X               |                        |           | X         |          |
| <i>Thalassionema</i> sp. Grunow ex Mereschkowsky                 |                 | X               | X               | X                      |           | X         |          |
| <i>Thalassiosira</i> spp. Cleve                                  |                 | X               |                 | X                      |           | X         | X        |
| <i>Thalassiosira cf. angulata</i> (Gregory) Hasle                |                 |                 |                 | X                      |           |           |          |
| <i>Thalassiosira eccentrica</i> (Ehrenberg) Cleve                |                 |                 |                 |                        | X         |           |          |
| <i>Thalassiosira cf. subtilis</i> (Ostenfeld) Gran               |                 |                 |                 |                        |           |           |          |
| <i>Thalassiothrix</i> sp. Cleve & Grunow                         |                 |                 |                 | X                      |           | X         |          |
| <i>Thalassiothrix gibberula</i> Hasle                            |                 |                 |                 |                        |           |           |          |
| <i>Thalassiothrix cf. gibberula</i> Hasle                        |                 | X               |                 |                        |           | X         |          |

(continua)

Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                                    | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIUNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Thalassiothrix longissima</i> Cleve & Grunow              |                 |                 |                 |                        |           | X         | X        |
| <i>Thalassiothrix</i> cf. <i>longissima</i> Cleve & Grunow   |                 | X               |                 | X                      |           |           |          |
| <i>Thalassiothrix mediterranea</i> Pavillard                 |                 |                 |                 |                        |           |           | X        |
| <i>Thalassiothrix mediterranea</i> var. <i>pacifica</i> Cupp |                 |                 |                 |                        |           |           | X        |
| <i>Toxarium</i> sp. Bailey                                   |                 |                 |                 |                        |           | X         |          |
| <i>Triceratium</i> spp. Ehrenberg                            |                 |                 |                 |                        |           | X         |          |
| <i>Triceratium</i> cf. <i>brookei</i> (Leuduger-Fortmorel)   |                 |                 |                 |                        |           | X         |          |
| <i>Triceratium favus</i> var. <i>quadrata</i> (Ehrenberg)    |                 |                 |                 |                        |           | X         |          |
| Complexo Tropiconeis   |                 | X               | X               | X                      |           | X         |          |
| <b>DINOPHYCEAE (Dinoflagelados)</b>                          |                 |                 |                 |                        |           |           |          |
| <i>Alexandrium</i> spp. Halim                                |                 |                 |                 |                        |           |           | X        |
| cf. <i>Alexandrium</i> spp. Halim                            |                 | X               |                 | X                      |           |           |          |
| <i>Amphidinium</i> sp. Claparede & Lachmann                  |                 |                 | X               | X                      |           |           |          |
| cf. <i>Amphidoma</i> Stein                                   |                 |                 |                 |                        |           |           |          |
| <i>Amphisolenia bidentata</i> Schröder                       |                 | X               |                 |                        |           |           |          |
| <i>Amphisolenia</i> cf. <i>bidentata</i> Schröder            |                 | X               |                 |                        |           |           |          |
| <i>Amphisolenia globifera</i> Stein                          |                 | X               |                 |                        |           | X         |          |
| <i>Amphisolenia</i> cf. <i>palaeotheroides</i> Kofoid        |                 |                 |                 |                        | X         |           |          |
| <i>Amphisolenia</i> cf. <i>schauinslandii</i> Lemmermann     |                 |                 |                 |                        | X         |           |          |
| <i>Amphisolenia</i> cf. <i>bidentata</i> Schröder            |                 |                 |                 | X                      |           |           |          |
| Brachydiniales   |                 |                 |                 | X                      |           |           |          |
| <i>Brachydinium</i> cf. <i>capitata</i> Taylor               |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium</i> spp. Schrank                                 | X               |                 | X               | X                      |           | X         | X        |
| <i>Ceratium</i> cf. <i>fuscus</i> (Ehrenberg) Dujardin       |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium</i> cf. <i>teres</i> Kofoid                      |                 | X               |                 |                        |           |           |          |
| <i>Ceratium</i> cf. <i>arcticum</i> Cleve                    |                 |                 |                 |                        | X         |           |          |
| <i>Ceratium azoricum</i> Cleve                               | X               |                 |                 |                        |           |           | X        |
| <i>Ceratium belone</i> Cleve                                 |                 |                 | X               |                        |           |           |          |
| <i>Ceratium biceps</i> Claparede & Lachmann                  | X               |                 |                 |                        |           |           |          |
| <i>Ceratium bigelowii</i> Graham & Bronnikovsky              |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium boehmii</i> Claparede & Lachmann                 |                 |                 | X               | X                      |           |           |          |
| <i>Ceratium breve</i> Ostenfeld & Schmidt                    | X               |                 | X               |                        |           | X         |          |
| <i>Ceratium</i> cf. <i>breve</i> Ostenfeld & Schmidt         |                 |                 |                 |                        |           |           |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                                    | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Ceratium candelabrum</i> (Ehrenberg) Stein                |                 | X               |                 |                        |           |           |          |
| <i>Ceratium carriense</i> Gourret                            | X               |                 |                 |                        | X         |           | X        |
| <i>Ceratium</i> cf. <i>carriense</i> Gourret                 |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium contortum</i> (Gourret) Cleve                    |                 |                 |                 | X                      |           |           | X        |
| <i>Ceratium contrarium</i> (Gourret) Pavillard               | X               |                 |                 | X                      |           |           |          |
| <i>Ceratium declinatum</i> (Karsten) Jörgensen               |                 | X               |                 | X                      |           | X         |          |
| <i>Ceratium</i> cf. <i>declinatum</i> (Karsten) Jörgensen    | X               | X               |                 |                        |           |           |          |
| <i>Ceratium deflexum</i> (Kofoid) Jörgensen                  |                 |                 |                 |                        | X         |           |          |
| <i>Ceratium euarquatatum</i> Jörgensen                       |                 |                 |                 |                        |           |           |          |
| <i>Ceratium extensum</i> (Gourret) Cleve                     |                 |                 |                 |                        |           |           |          |
| <i>Ceratium kofoidii</i> Balech                              |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium limulus</i> Gourret                              |                 |                 |                 |                        |           |           |          |
| <i>Ceratium lineatum</i> (Ehrenberg) Cleve                   |                 |                 |                 | X                      |           | X         |          |
| <i>Ceratium longirostrum</i> Gourret                         |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium</i> cf. <i>longissimum</i> (Schröder) Kofoid     |                 |                 |                 |                        |           |           |          |
| <i>Ceratium furca</i> (Ehrenberg) Claparede & Lachmann       |                 |                 | X               | X                      | X         | X         | X        |
| <i>Ceratium furca</i> var. <i>hircus</i> (Schroder)          |                 | X               |                 |                        |           |           |          |
| <i>Ceratium fusus</i> (Ehrenberg) Dujardin                   | X               | X               | X               |                        |           |           | X        |
| <i>Ceratium gibberum</i> Gourret                             |                 |                 |                 |                        |           |           | X        |
| <i>Ceratium hexacanthum</i> Gourret                          |                 |                 |                 |                        |           |           | X        |
| <i>Ceratium hircus</i> Schroder                              |                 |                 |                 |                        |           |           | X        |
| <i>Ceratium horridum</i> (Cleve) Gran                        |                 |                 |                 |                        |           |           | X        |
| <i>Ceratium</i> cf. <i>horridum</i> (Cleve) Gran             |                 |                 |                 |                        |           | X         |          |
| <i>Ceratium incisum</i> (Karsten) Jörgensen                  |                 |                 |                 |                        |           |           |          |
| <i>Ceratium inflatum</i> (Kofoid) Jörgensen                  |                 | X               |                 |                        |           |           |          |
| <i>Ceratium</i> cf. <i>inflatum</i> (Kofoid) Jörgensen       |                 | X               |                 |                        |           |           |          |
| <i>Ceratium macroceros</i> (Ehrenberg) Cleve                 |                 | X               |                 | X                      |           | X         | X        |
| <i>Ceratium massiliense</i> (Gourret) Jörgensen              | X               |                 |                 | X                      |           |           | X        |
| <i>Ceratium massiliense</i> var. <i>protuberans</i> (Karst.) |                 |                 |                 |                        | X         |           |          |
| <i>Ceratium pentagonum</i> Gourret                           | X               | X               | X               | X                      |           |           |          |
| <i>Ceratium pentagonum</i> var. <i>tenerum</i> Jörgensen     |                 |                 |                 |                        |           |           | X        |
| <i>Ceratium pulchellum</i> Schröder                          | X               |                 |                 | X                      |           |           |          |
| <i>Ceratium setaceum</i> Jörgensen                           | X               |                 |                 |                        |           |           |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIUNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Ceratium symmetricum</i> Pavillard  |                 |                 |                 |                        |           |           | X        |
| <i>Ceratium</i> cf. <i>tenuis</i> Ostenfeld and Schmidt                      |                 |                 |                 |                        |           |           |          |
| <i>Ceratium tenue</i> var. <i>tenuissimum</i> (Kofoid) Graham & Brownikovsky |                 | X               |                 |                        |           |           |          |
| <i>Ceratium teres</i> Kofoid   | X               | X               |                 | X                      | X         |           |          |
| <i>Ceratium trichoceros</i> (Ehrenberg) Kofoid                               |                 |                 |                 |                        |           | X         | X        |
| <i>Ceratium tripos</i> (O. F. Müller) Nitzsch                                |                 | X               |                 |                        |           |           | X        |
| <i>Ceratium</i> cf. <i>tripos</i> (O. F. Müller) Nitzsch                     |                 |                 |                 |                        |           | X         |          |
| <i>Ceratium tripos</i> sub. <i>atlanticum</i> Balech                         |                 |                 |                 |                        |           | X         |          |
| <i>Ceratium tripos</i> var. <i>atlanticum</i> (Ostenfeld) Paulsen            |                 |                 |                 | X                      |           |           |          |
| <i>Ceratium vultur</i> Cleve   |                 |                 |                 | X                      |           | X         |          |
| <i>Ceratocorys</i> spp. Stein  | X               |                 |                 |                        |           |           | X        |
| <i>Ceratocorys</i> cf. <i>gourreti</i> Paulsen                               |                 | X               |                 |                        |           |           |          |
| <i>Ceratocorys horrida</i> Stein   |                 | X               |                 |                        |           |           |          |
| <i>Ceratoperidinium yeye</i> Margalef ex A.R. Loeblich III                   |                 |                 |                 |                        |           | X         |          |
| <i>Ceratoperidinium</i> cf. <i>yeye</i> Margalef ex A.R. Loeblich III        |                 | X               |                 |                        |           |           |          |
| cf. <i>Ceratoperidinium yeye</i> Margalef ex A.R. Loeblich III               |                 |                 |                 | X                      |           |           |          |
| cf. <i>Cladopyxis bacillifera</i> Schiller                                   |                 |                 |                 |                        |           |           |          |
| <i>Cladopyxis brachiolata</i> Stein  | X               |                 | X               | X                      |           |           |          |
| <i>Cladopyxis</i> cf. <i>brachiolata</i> Stein                               |                 |                 |                 |                        | X         |           |          |
| <i>Cladopyxis</i> cf. <i>setifera</i> Lohmann                                |                 |                 |                 | X                      |           |           |          |
| <i>Cochlodinium</i> spp. Schütt  |                 |                 | X               | X                      |           | X         |          |
| <i>Corytodinium constrictum</i> (Stein) F. J. R. Taylor                      |                 |                 |                 |                        |           |           | X        |
| Dinophysiales  |                 |                 |                 | X                      |           | X         |          |
| <i>Dinophysis</i> spp. Ehrenberg   |                 | X               |                 | X                      |           |           | X        |
| <i>Dinophysis</i> cf. <i>acuminata</i>                                       |                 |                 |                 |                        |           | X         |          |
| <i>Dinophysis caudata</i> Saville - Kent                                     |                 |                 |                 |                        |           |           | X        |
| <i>Dinophysis</i> cf. <i>cuneus</i> (Schütt) Abé                             |                 |                 |                 |                        | X         |           |          |
| <i>Dinophysis dens</i> Pavillard   |                 |                 |                 |                        |           |           |          |
| <i>Dinophysis</i> cf. <i>dubia</i> Balech                                    |                 |                 |                 | X                      |           |           |          |
| <i>Dinophysis</i> cf. <i>exigua</i> Kofoid & Skogsberg                       |                 |                 |                 | X                      |           |           |          |
| <i>Dinophysis</i> cf. <i>parva</i> Schiller                                  |                 |                 |                 |                        | X         |           |          |
| <i>Dinophysis</i> cf. <i>schuetii</i> Murray & Whitting                      |                 |                 |                 |                        |           |           |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Dinophysis tripos</i> Gourret                                   |                 |                 |                 |                        |           |           | X        |
| <i>Dinophysis</i> cf. <i>tripos</i> Gourret                        |                 |                 |                 |                        | X         |           |          |
| <i>Dinophysis</i> cf. <i>uracantha</i> Stein                       | X               |                 |                 |                        |           |           |          |
| <i>Dissodinium bicorne</i> (Kofoid & Swezy) Taylor                 |                 |                 |                 | X                      |           |           |          |
| <i>Dissodinium robusta</i>   |                 |                 |                 |                        |           | X         |          |
| <i>Glenodinium</i> spp. (Ehrenberg) Stein                          |                 |                 |                 |                        |           |           | X        |
| Gonyaulacales  |                 |                 |                 | X                      |           |           |          |
| cf. <i>Gonyaulax</i> Diesing                                       |                 | X               |                 |                        |           |           |          |
| <i>Gonyaulax</i> spp. Diesing                                      | X               |                 |                 | X                      |           | X         | X        |
| <i>Gonyaulax digitale</i> (Pouchet) Kofoid                         |                 |                 |                 |                        |           |           | X        |
| <i>Gonyaulax</i> cf. <i>jollifei</i>                               |                 | X               |                 |                        |           |           |          |
| <i>Gonyaulax</i> cf. <i>polygramma</i> Stein                       | X               |                 |                 |                        |           |           |          |
| Gymnodineaceae   |                 | X               |                 |                        |           |           |          |
| Gymnodinales Lemmermann (H)  |                 |                 | X               | X                      |           | X         |          |
| <i>Gymnodinium</i> spp. Stein                                      |                 |                 | X               | X                      |           |           | X        |
| <i>Gymnodinium catenatum</i> Graham                                |                 |                 |                 | X                      |           |           |          |
| <i>Gyrodinium</i> spp. Kofoid & Swezy                              |                 |                 |                 | X                      |           |           | X        |
| <i>Heterocapsa niei</i> (Loeblich III) Morrell & Loeblich III      |                 |                 |                 |                        |           |           | X        |
| <i>Histioneis</i> sp. Stein  |                 | X               |                 |                        |           |           |          |
| <i>Histioneis</i> cf. <i>dolon</i> Murray & Whitting               |                 |                 |                 | X                      |           |           |          |
| <i>Histioneis cymbalaria</i> Stein                                 |                 |                 |                 | X                      |           |           |          |
| <i>Histioneis</i> cf. <i>inclinara</i> Kofoid & Skogsberg          | X               |                 |                 |                        |           |           |          |
| <i>Histioneis milneri</i> Murray & Whitting                        |                 |                 |                 |                        |           |           |          |
| <i>Kofoadinium pavillard</i> Cach. & Cach.                         |                 |                 |                 | X                      |           |           |          |
| cf. <i>Kofoadinium pavillardi</i> Pavillard                        |                 |                 |                 |                        |           |           |          |
| cf. <i>Kofoadinium velleloides</i> Pavillard                       |                 |                 |                 |                        |           |           |          |
| cf. <i>Murrayella</i> Kofoid                                       |                 |                 |                 |                        |           |           |          |
| <i>Murrayella</i> sp. Kofoid                                       |                 |                 | X               |                        |           |           |          |
| Noctilucales   |                 |                 |                 | X                      |           |           |          |
| <i>Ornithocercus magnificus</i> Stein                              | X               |                 |                 |                        |           |           | X        |
| <i>Ornithocercus quadratus</i> Schütt                              | X               |                 |                 |                        |           |           |          |
| <i>Ornithocercus</i> cf. <i>thumii</i> (Schmid) Kofoid & Skogsberg | X               |                 |                 |                        |           |           |          |
| <i>Ornithocercus steinii</i> Schütt                                |                 |                 |                 |                        |           |           |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                               | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|---|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Oxyphysis</i> spp. Kofoid                            |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum</i> spp. Stein                              |                 |                 | X               | X                      |           |           | X        |
| <i>Oxytoxum</i> cf. <i>belgicae</i> Meunier             |                 |                 |                 |                        | X         |           |          |
| <i>Oxytoxum</i> cf. <i>caudatum</i> Schiller            |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum adriaticum</i> Schiller                     |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum</i> cf. <i>adriaticum</i> Schiller          |                 |                 |                 |                        |           |           |          |
| <i>Oxytoxum biconicum</i> (Kofoid) Dodge & Saunders     |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum constrictum</i> (Stein) Bütschli            |                 | X               |                 |                        |           |           |          |
| <i>Oxytoxum</i> cf. <i>constrictum</i> (Stein) Bütschli | X               |                 |                 |                        |           |           |          |
| <i>Oxytoxum crassum</i> Schiller                        | X               | X               | X               | X                      |           |           |          |
| <i>Oxytoxum</i> cf. <i>crassum</i> Schiller             |                 |                 | X               |                        | X         |           |          |
| <i>Oxytoxum curvatum</i> Kofoid                         |                 |                 | X               |                        |           |           |          |
| <i>Oxytoxum</i> cf. <i>diploconus</i> Stein             |                 |                 |                 |                        | X         |           |          |
| <i>Oxytoxum globosum</i> Schiller                       |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum</i> cf. <i>globosum</i> Schiller            |                 |                 |                 |                        | X         |           |          |
| <i>Oxytoxum gracile</i> Schiller                        |                 | X               | X               | X                      |           | X         |          |
| <i>Oxytoxum</i> cf. <i>gracile</i> Schiller             |                 |                 |                 |                        |           |           |          |
| <i>Oxytoxum laticeps</i> Schiller                       |                 |                 | X               | X                      |           | X         |          |
| <i>Oxytoxum</i> cf. <i>laticeps</i> Schiller            |                 |                 |                 |                        | X         |           |          |
| <i>Oxytoxum longiceps</i> Schiller                      |                 | X               |                 | X                      |           |           |          |
| <i>Oxytoxum</i> cf. <i>longiceps</i> Schiller           |                 |                 |                 |                        |           |           |          |
| <i>Oxytoxum milneri</i> Murray & Whitting               |                 | X               |                 |                        |           |           |          |
| <i>Oxytoxum mitra</i> (Stein) Schiller                  |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum obliquum</i> Schiller                       |                 |                 |                 | X                      |           |           |          |
| <i>Oxytoxum</i> cf. <i>ovale</i> Schiller               |                 |                 |                 |                        |           |           |          |
| <i>Oxytoxum</i> cf. <i>pachiderme</i> Schiller          |                 |                 |                 |                        |           |           |          |
| <i>Oxytoxum parvum</i> Schiller                         |                 |                 | X               |                        |           |           |          |
| <i>Oxytoxum</i> cf. <i>parvum</i> Schiller              |                 |                 |                 |                        |           |           |          |
| <i>Oxytoxum sceptrum</i> (Stein) Schröder               |                 | X               |                 | X                      |           |           |          |
| <i>Oxytoxum</i> cf. <i>sceptrum</i> (Stein) Schröder    |                 | X               |                 |                        |           |           |          |
| <i>Oxytoxum scolopax</i> Stein                          |                 | X               | X               | X                      |           | X         | X        |
| <i>Oxytoxum sphaeroideum</i> Stein                      |                 |                 | X               | X                      |           |           |          |
| <i>Oxytoxum tessellatum</i> (Stein) Schütt              |                 | X               |                 |                        |           | X         |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON  | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Oxytoxum turbo</i> Kofoid   |                 | X               | X               | X                      |           | X         |          |
| <i>Oxytoxum variabile</i> Schiller   |                 | X               | X               | X                      |           | X         |          |
| <i>Oxytoxum cf. variabile</i> Schiller                                       |                 |                 |                 |                        |           | X         |          |
| <i>Oxytoxum viride</i> Schiller  |                 |                 |                 | X                      |           |           |          |
| Peridinales  |                 |                 |                 | X                      |           |           |          |
| <i>Phalacroma sp.</i> Stein  |                 |                 |                 | X                      |           |           |          |
| <i>Phalacroma cf. macronatum</i>   |                 |                 |                 |                        |           |           |          |
| <i>Phalacroma cf. argus</i> Stein  |                 |                 | X               |                        |           |           |          |
| <i>Phalacroma circumsutum</i> Karsten  |                 |                 |                 | X                      |           |           |          |
| <i>Phalacroma rapa</i> Stein   |                 |                 |                 |                        |           |           | X        |
| <i>Phalacroma rotundatum</i> (Claparède & Lachmann)<br>Kofoid & Michener     |                 |                 | X               | X                      |           |           |          |
| <i>Phalacroma cf. rotundatum</i> (Claparède & Lachmann)<br>Kofoid & Michener |                 |                 |                 |                        |           | X         |          |
| <i>Podolampas sp.</i> Stein  |                 |                 |                 | X                      |           |           |          |
| <i>Podolampas bipes</i> Stein  |                 |                 |                 | X                      |           |           | X        |
| <i>Podolampas elegans</i> Schütt   |                 |                 |                 | X                      |           |           |          |
| <i>Podolampas palmipes</i> Stein   |                 | X               | X               | X                      | X         |           |          |
| <i>Polykrikos sp.</i> Butschli   |                 |                 |                 | X                      |           |           |          |
| <i>Pronoctiluca spp.</i> Fabre-Domergue (H)                                  |                 |                 |                 |                        |           | X         |          |
| <i>Pronoctiluca pelagica</i> Fobre-Domergue                                  |                 |                 | X               | X                      |           | X         |          |
| <i>Pronoctiluca cf. pelagica</i> Fobre-Domergue                              |                 |                 |                 |                        |           | X         |          |
| <i>Pronoctiluca cf. rostrata</i> Taylor                                      |                 |                 |                 | X                      |           |           |          |
| <i>Pronoctiluca spinifera</i> (Lohmann) Schiller                             |                 |                 | X               |                        |           | X         |          |
| <i>Pronoctiluca cf. spinifer</i> (Lohmann) Schiller                          |                 |                 |                 | X                      |           | X         |          |
| Procentrales   |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum spp.</i> Ehrenberg   |                 |                 |                 | X                      |           | X         | X        |
| <i>Prorocentrum cf. aporos</i>   |                 |                 |                 |                        |           |           |          |
| <i>Prorocentrum balticum</i> (Lohmann) Loeblich                              |                 |                 | X               |                        |           |           |          |
| <i>Prorocentrum cf. balticum</i> (Lohmann) Loeblich                          |                 |                 |                 | X                      | X         | X         |          |
| <i>Prorocentrum compressum</i> (Bailey) Abe                                  |                 |                 | X               |                        |           |           | X        |
| <i>Prorocentrum cf. compressum</i> (Bailey) Abé                              |                 |                 |                 | X                      |           | X         |          |
| <i>Prorocentrum cf. dentatum</i> Stein                                       |                 |                 |                 |                        |           |           |          |
| <i>Prorocentrum cf. emarginatum</i> Fukuyo                                   |                 |                 |                 |                        |           | X         |          |

(continua)

## Anexo II.5-3 (continuação)

| TÁXON - MICROFITOPLÂNCTON                               | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIUNAS |
|---|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Prorocentrum gracile</i> Schütt                      |                 | X               | X               | X                      |           | X         | X        |
| <i>Prorocentrum cf. gracile</i> Schütt                  |                 |                 |                 |                        |           |           |          |
| <i>Prorocentrum cf. lenticulatum</i> Matzenauer         |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum lima</i> (Ehrenberg) Dodge              |                 |                 |                 |                        |           | X         |          |
| <i>Prorocentrum cf. lima</i> (Ehrenberg) Dodge          |                 |                 |                 | X                      |           | X         |          |
| <i>Prorocentrum cf. magnum</i> (Gaarder) Dodge          |                 |                 |                 |                        |           |           |          |
| <i>Prorocentrum maximum</i> (Gourret) Schiller          |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum cf. mexicanum</i> Tafall                |                 |                 |                 |                        | X         |           |          |
| <i>Prorocentrum micans</i> Ehrenberg                    |                 | X               | X               | X                      |           | X         | X        |
| <i>Prorocentrum cf. micans</i> Ehrenberg                |                 |                 |                 |                        | X         |           |          |
| <i>Prorocentrum cf. minimum</i> (Pavillard) Schiller    |                 |                 |                 |                        |           |           |          |
| <i>Prorocentrum cf. oblongom</i> Schiller               |                 |                 |                 |                        |           |           |          |
| <i>Prorocentrum cf. ovale</i> (Gourret) Schiller        |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum cf. rostratum</i> Stein                 |                 |                 | X               |                        |           |           |          |
| <i>Prorocentrum cf. scutellum</i> Schroder              |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum sigmoides</i> Böhm                      |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum cf. sphaeroideum</i> Schiller           |                 |                 |                 | X                      |           |           |          |
| <i>Prorocentrum triestinum</i> Schiller                 |                 |                 |                 | X                      |           |           | X        |
| <i>Protoperidinium</i> spp. Bergh                       |                 | X               | X               | X                      |           | X         | X        |
| <i>Protoperidinium cf. avellana</i> (Meunier) Balech    |                 |                 |                 |                        | X         |           |          |
| <i>Protoperidinium globulus</i> (Stein) Balech          |                 |                 | X               |                        |           |           |          |
| <i>Protoperidinium cf. globulus</i> (Stein) Balech      |                 |                 | X               |                        |           |           |          |
| <i>Protoperidinium cf. compressum</i> (Abé) Balech      |                 |                 |                 |                        |           |           | X        |
| <i>Protoperidinium conicum</i> (Gran) Balech            |                 |                 |                 |                        |           |           | X        |
| <i>Protoperidinium depressum</i> (Bailey) Balech        |                 |                 |                 |                        |           |           | X        |
| <i>Protoperidinium divergens</i> (Ehrenberg) Balech     |                 |                 |                 | X                      |           |           | X        |
| <i>Protoperidinium cf. divergens</i> (Ehrenberg) Balech |                 |                 | X               |                        |           | X         |          |
| <i>Protoperidinium grande</i> Kofoid                    |                 |                 |                 | X                      |           |           |          |
| <i>Protoperidinium cf. grande</i> Kofoid                |                 |                 |                 |                        |           | X         |          |
| <i>Protoperidinium cf. hirobis</i> Abé                  |                 |                 |                 | X                      | X         |           |          |
| <i>Protoperidinium cf. minutum</i> (Kofoid) Loeblich    |                 |                 | X               |                        | X         |           |          |
| <i>Protoperidinium oceanicum</i> (Van Höffen) Balech    |                 |                 |                 |                        |           |           | X        |
| <i>Protoperidinium pentagonum</i> (Gran) Balech         |                 |                 |                 |                        |           |           | X        |

(continua)



## Anexo II.5-3 (conclusão)

| TÁXON - MICROFITOPLÂNCTON                                | MARLIM<br>LESTE | MARLIM<br>SUL 1 | MARLIM<br>SUL 2 | BARRACUDA<br>CARATINGA | ESPADARTE | PDET/AMEG | CABIÚNAS |
|--|-----------------|-----------------|-----------------|------------------------|-----------|-----------|----------|
| <i>Protoberidinium pyriforme</i> Paulsen                 |                 |                 |                 |                        |           |           | X        |
| <i>Protoberidinium cf. saltans</i> Meunier               |                 |                 |                 |                        |           |           |          |
| <i>Protoberidinium cf. steinii</i> (Jørgensen) Balech    |                 |                 | X               |                        |           |           |          |
| <i>Protoberidinium tuba</i> Schiller                     |                 |                 |                 |                        |           |           | X        |
| <i>Protoberidinium venustum</i> (Matzenaler) Balech      |                 |                 |                 |                        |           |           | X        |
| <i>Pselodionum vaubanii</i> Sournia                      |                 | X               |                 |                        |           | X         |          |
| <i>Pselodinium cf. vaubanii</i> Sournia                  |                 |                 |                 | X                      |           |           |          |
| Pyrocystales   |                 |                 |                 | X                      |           |           |          |
| <i>Pyrocystis cf. fusiformis</i> (Haeckel) Blackman      |                 | X               |                 |                        |           |           |          |
| <i>Pyrocystis lunula</i> (Schütt) Schütt                 |                 |                 |                 |                        |           |           | X        |
| <i>Pyrocystis pseudonociluca</i> (W. Tohomson)           |                 |                 |                 |                        |           |           |          |
| <i>Pyrocystis cf. robusta</i> Kofoid                     |                 | X               |                 |                        |           |           |          |
| <i>Pyrophacus steinii</i> (Schiller) Wall & Dale         |                 |                 |                 |                        |           |           | X        |
| <i>Scrippsiella</i> spp. Balech ex Loeblich              |                 | X               | X               |                        |           | X         |          |
| <i>Scrippsiella trochoidea</i> (Stein) Loeblich          |                 |                 |                 |                        | X         |           | X        |
| <i>Scrippsiella cf. trochoidea</i> (Stein) Loeblich      |                 |                 | X               |                        |           |           |          |
| <i>Stephanopyxis turris</i> (Greville & Arnott) Ralfs    |                 |                 |                 |                        | X         |           | X        |
| Cf. <i>Stylodinium</i> Klebs                             |                 |                 |                 |                        |           |           |          |
| <b>EUGLENOPHYCEAE</b>                                    |                 |                 |                 |                        | X         |           |          |
| Euglenofíceas  |                 |                 |                 |                        |           | X         | X        |
| <b>PRASINOPHYCEAE</b>                                    |                 |                 |                 |                        |           |           |          |
| <i>Pterosperma cf. cristatum</i> Schiller                |                 |                 |                 |                        |           |           |          |
| <b>DICTYOCOPHYCEAE (Silicoflagelados)</b>                |                 |                 |                 |                        |           |           |          |
| <i>Dictyocha fibula</i> (Ehrenberg) Haeckel              |                 | X               | X               | X                      | X         | X         | X        |
| <i>Dictyocha cf. siderea</i> Schulz                      |                 |                 |                 | X                      |           |           |          |
| <i>Dictyocha speculum</i> (Ehrenberg) Haeckel            |                 |                 | X               |                        |           |           |          |
| Dictyochales   |                 |                 |                 | X                      |           |           |          |
| <i>Octonaria octactis</i> (Ehrenberg) Hovasse & Lachmann |                 |                 |                 | X                      |           |           |          |
| <i>Distephanus speculum</i> (Ehrenberg) Haeckel          |                 |                 |                 |                        |           |           |          |
| <i>Distephanus speculum</i> var. <i>octonaria</i>        |                 |                 |                 |                        |           | X         |          |
| cf. <i>Distephanus</i> sp. Haeckel                       |                 |                 |                 | X                      |           |           |          |
| <b>FLAGELADOS</b>  |                 |                 |                 |                        |           |           |          |
| <i>Ebria tripartita</i> (Schumann) Lemmermann            |                 |                 |                 |                        | X         |           | X        |