



## Eileen J. Cox: her journey with diatoms

Ingrid Jüttner<sup>1,\*</sup>, David G. Mann<sup>2,3</sup>, Rosa Trobajo<sup>3</sup> & Elliot Shubert<sup>4</sup>

<sup>1</sup>Department of Natural Sciences, National Museum of Wales, Cathays Park, Cardiff CF10 3NP, UK

<sup>2</sup>Royal Botanic Garden Edinburgh, Edinburgh EH3 5LR, Scotland, UK

<sup>3</sup>Institute of Agriculture and Food Research and Technology (IRTA), Sant Carles de la Ràpita, E-43540, Catalonia, Spain

<sup>4</sup>The Natural History Museum, Cromwell Road, London SW7 5BD, UK

\*Author for correspondence: Ingrid.Juettner@museumwales.ac.uk

Eileen already had a keen interest in science during her school years. She studied Botany at Bristol University from 1967–1970, and it was her University teacher, Professor Frank Round, who inspired her interest in diatoms. During her PhD at Bristol under Frank Round's supervision (1970–1975) she investigated the biology of tube-dwelling diatoms. At the same time, she worked as Departmental Demonstrator in the Botany Department. She left Bristol University in 1976 and became a Claridge Druce Research Fellow at the University of Oxford (1977–1980). Her investigations focused on the genus *Navicula* and the ultrastructure of diatom cells more generally. From 1979–1980 Eileen took up a post as lecturer at Pembroke College, University of Oxford.

In 1980 Eileen moved to Germany and worked as a Royal Society European Exchange Research Fellow at the Litoralstation, Biologische Anstalt Helgoland. Here her studies focused on living diatoms, in particular the genus *Donkinia*, and she explored the value of live-cell features as diagnostic characters. From 1982–1985 she worked as a Max Planck research fellow at the Max-Planck-Institute at Plön, and from 1985–1988 as a Fellow of the German Research Foundation at the Max-Planck-Institute of Limnology, River Station, in Schlitz. During these years Eileen's research on *Navicula* continued, but she also worked on the genera *Placoneis*, *Parlibellus* and *Pinnularia*, and studied relationships between diatom distributions and the environment.

In 1989 Eileen returned to the UK to join the University of Sheffield, first as Research Associate, then as NERC Advanced Research Fellow and Honorary Lecturer, and carried out ecotoxicological studies on zooplankton. In 1992 she joined the Natural History Museum as Research Botanist to continue her research on diatoms. Here Eileen made many

important contributions to diatom taxonomy and systematics. She carried out important studies on the naviculoid diatoms, and on live diatoms including her novel research on valve morphogenesis.

Eileen has been involved in the organisation of many scientific meetings. In 1987 she organized the first meeting of the German-speaking diatomists in Schlitz, Germany, a meeting that has subsequently developed to include a much larger group of scientists from across Europe and from 2020 onwards will be the European Diatom Meeting. Other meetings she has helped organize include those held by the British Phycological Society, British Diatom Meetings, a North-West and Midlands Freshwater Group meeting, the Van Heurck Symposium on Taxonomy, a SETAC Europe meeting, a Society for the History of Natural History Meeting, and several European and International Phycological Congresses.

Eileen has taught extensively; hosted 7 post-doctoral fellows and many research visitors to the Natural History Museum; supervised 10 PhD students, 4 M.Sc./M.Phil. students, 1 M.Res. student, and 4 final year B.Sc. students; and examined 9 PhDs and 1 DSc. She is currently a member of six learned societies, has refereed manuscripts for 31 scientific journals, has been invited speaker at 32 scientific meetings, gave 28 invited lectures at universities and research institutes, and presented at 56 national and international conferences.

Eileen has given great service to several scientific societies, as council member, secretary or president. These include the British Phycological Society (president 2001–2002), the International Society for Diatom Research (president 2000–

2002), the Systematics Association, and the International Phycological Society.

Since 2007 Eileen has been Head of Postgraduate Studies in the Science Directorate of the Natural History Museum. As part of her role she develops and implements the training programmes of students at NHM, is responsible for strategic planning, and coordinates with research and training partners at universities and research institutions across the UK.

Eileen is currently Editor in Chief of *Diatom Research*, and was previously Associate Editor (2011–2014), she is a board member of *Fottea* (since 2010), was guest co-editor of the Journal of the North American Benthological Society (Special Issue on Ecology of Springs), guest co-editor of the Journal of Limnology (Special Issue on Spring Biodiversity and Conservation), and Co-Editor-in-Chief of the *European Journal of Phycology* (2004–2009).

Private hobbies include gardening, crafts such as cross stitching and sewing, visiting art museums and travelling, especially river and ocean cruises that have taken Eileen and Elliot recently to Alaska, the Caribbean, Germany, the Czech Republic, France and Portugal.

Readers may like to read Eileen's own description of her journey in diatoms, written for the young diatomists' blog (available at [https://youngisdr.blogspot.com/p/blog-page\\_12.html](https://youngisdr.blogspot.com/p/blog-page_12.html) or in this volume supplementary information).

#### Research publications (not including Abstracts)

1. Cox E.J. (1975) A reappraisal of the diatom genus *Amphipleura* Kütz. using light and electron microscopy. *British Phycological Journal* 10: 1–12. <https://doi.org/10.1080/00071617500650011>
2. Cox E.J. (1975) Further studies on the diatom genus *Berkeleya* Grev. *British Phycological Journal* 10: 205–212. <https://doi.org/10.1080/00071617500650191>
3. Cox E.J. (1976) Variation in valve structure between species of the diatom genus *Cymbella* C.A.Ag. *Nova Hedwigia* 28: 427–449.
4. Cox E.J. (1977) The distribution of tube-dwelling diatoms in the Severn Estuary. *Journal of the Marine Biological Association of the United Kingdom* 57: 19–28. <https://doi.org/10.1017/S0025315400021196>
5. Cox E.J. (1977) The tube-dwelling diatom flora at two sites in the Severn Estuary. *Botanica Marina* 20: 111–119. <https://doi.org/10.1515/botm.1977.20.2.111>
6. Cox E.J. (1977) Raphe structure in naviculoid diatoms as revealed by the scanning electron microscope. *Nova Hedwigia*, Beiheft 54: 261–174.
7. Cox E.J. (1978) Taxonomic studies on the diatom genus *Navicula* Bory. *Navicula grevillii* (C.A.Ag.) Heiberg and *N. comoides* (Dillwyn) H. & M.Peragallo. *Botanical Journal of the Linnean Society* 76: 127–143. <https://doi.org/10.1111/j.1095-8339.1978.tb01502.x>
8. Cox E.J. (1979) Studies on the diatom genus *Navicula* Bory. *Navicula scopulorum* Breb. and a further comment on the genus *Berkeleya* Grev. *British Phycological Journal* 14: 161–174. <https://doi.org/10.1080/00071617900650181>
9. Cox E.J. (1979) Taxonomic studies on the diatom genus *Navicula* Bory. The typification of the genus. *Bacillaria* 2: 137–153.
10. Cox E.J. (1979) Symmetry and valve structure in naviculoid diatoms. *Nova Hedwigia*, Beiheft 64: 193–206.
11. Ross R., Cox E.J., Karayeva N.I., Mann D.G., Paddock T.B.B., Simonsen R., Sims P.A. (1979) A suggested terminology for the siliceous components of the diatom cell. *Nova Hedwigia*, Beiheft 64: 513–533.
12. Winkler M.A., Cox E.J. (1980) Stalked bacteria in activated sludge. *European Journal of Applied Microbiology and Biotechnology* 9: 235–242. <https://doi.org/10.1007/BF00504490>
13. Cox E.J. (1981) Mucilage tube morphology of three tube-dwelling diatoms and its diagnostic value. *Journal of Phycology* 17: 72–80. <https://doi.org/10.1111/j.1529-8817.1981.tb00821.x>
14. Cox E.J. (1981) Observations on the morphology and vegetative cell division of the diatom *Donkinia recta* (Donk.) Grun. *Helgoländer Meeresuntersuchungen* 34: 497–506. <https://doi.org/10.1007/BF01995921>
15. Cox E.J. (1981) The use of chloroplasts and other features of the living cell in the taxonomy of naviculoid diatoms. In: Ross R. (ed.) *Proceedings of the 6th Symposium on Recent and Fossil Diatoms*: 115–133. Koenigstein, O. Koeltz.
16. Cox E.J., Ross R. (1981) The striae of pennate diatoms. In: Ross R. (ed.) *Proceedings of the 6th Symposium on Recent and Fossil Diatoms*: 267–278. Koenigstein, O. Koeltz.
17. Cox E.J. (1982) Taxonomic studies on the diatom genus *Navicula* Bory. IV. *Climaconeis* Grun., a genus including *Okedenia inflexa* (Breb.) Eulens. ex De Toni and members of *Navicula* sect. *Johnsoniae* sensu Hust. *British Phycological Journal* 17: 147–168. <https://doi.org/10.1080/00071618200650161>
18. Pockock K.L., Cox E.J. (1982) Frustular structure in the diatom *Rhabdonema arcuatum* (Lyngb.) Kütz. with particular reference to the cingulum as seen with the scanning electron microscope. *Nova Hedwigia* 36: 621–641.
19. Cox E.J. (1983) Observations on the diatom genus *Donkinia* Ralfs in Pritchard. II. Frustular studies and intra-specific variation. *Botanica Marina* 26: 553–566. <https://doi.org/10.1515/botm.1983.26.12.553>
20. Cox E.J. (1983) Observations on the diatom genus *Donkinia* Ralfs in Pritchard. III. Taxonomy. *Botanica Marina* 26: 567–580. <https://doi.org/10.1515/botm.1983.26.12.567>
21. Cox E.J. (1984) Observations on some benthic diatoms from North German lakes. The effect of substratum and light regime. *Verhandlungen der Internationalen Vereinigung der Limnologie* 22: 924–928. <https://doi.org/10.1080/03680770.1983.11897410>
22. Cox E.J. (1985) Auxosporulation by a naviculoid diatom and the taxonomic implications. *British Phycological Journal* 20: 169–179. <https://doi.org/10.1080/00071618500650181>
23. Cox E.J. (1986) Some taxonomic and ecological considerations of morphological variation within natural populations of benthic diatoms. In: Ricard M. (ed.) *Proceedings of the 8th International Diatom Symposium*: 163–172. Koenigstein, O. Koeltz.
24. Cox E.J. (1987) *Placoneis* Mereschkowsky: The re-evaluation of a diatom genus originally characterized by its chloroplast type. *Diatom Research* 2: 145–157. <https://doi.org/10.1080/0269249X.1987.9704994>
25. Cox E.J. (1987) Studies on the diatom genus *Navicula* Bory. VI. The identity, structure and ecology of some freshwater species. *Diatom Research* 2: 159–174. <https://doi.org/10.1080/0269249X.1987.9704995>
26. Cox E.J. (1988) Has the role of the substratum been under-estimated for algal distribution patterns in fresh-





Photographs of Eileen J. Cox. A: on a field trip to collect algae in the Bristol Channel, UK, with Paul Broady and the late Lynda Smith. 1976. Source: David Mann. B: at the 7<sup>th</sup> International Phycological Congress, Thessaloniki, Greece. 2001. Source: Elliot Shubert. C: with her husband Elliot Shubert at the wedding of Dawn Rose (Eileen's former PhD Student), UK, 2006. Source: Eileen Cox. D: Eileen and Elliot surrounded by their students during their freshwater algal course at the Kindrogan Field Centre, Scotland. Source: Ingrid Jüttner (furthest right in the photo). All rights reserved, used with permission. These images are not covered by the terms of the Creative Commons licence of this publication. For permission to reuse, please contact the rights holder (David Mann, Elliot Shubert, Eileen Cox, Ingrid Jüttner).



- water ecosystems? *Biofouling* 1: 49–63. <https://doi.org/10.1080/08927018809378095>
27. Cox E.J. (1988) Variation within the genus *Pinnularia* Ehrenb.: further evidence for the use of live material in diatom systematics? In: Round F.E. (ed.) *Proceedings of the 9th International Diatom Symposium*: 437–447. Bristol, Biopress, and Koenigstein, Koeltz Scientific Books.
  28. Cox E.J. (1988) Taxonomic studies on the diatom genus *Navicula* Bory. V. The establishment of *Parlibellus* gen. nov. for some members of *Navicula* sect. *Microstigmaticae*. *Diatom Research* 3: 9–38. <https://doi.org/10.1080/0269249X.1988.9705014>
  29. Cox E.J. (1989) Nomenclatural notes on *Parlibellus* Cox. *Diatom Research* 4: 399. <https://doi.org/10.1080/0269249X.1989.9705083>
  30. Cox E.J., Wagner R. (1989) Does *Agapetus fuscipes* cultivate algae in its case? *Hydrobiologia* 175: 117–120. <https://doi.org/10.1007/BF00765122>
  31. Cox E.J. (1990) Studies on the algae of a small softwater stream. I. Occurrence and distribution with particular reference to the diatoms. *Archiv für Hydrobiologie, Supplement (Monographische Beiträge)* 83: 525–552.
  32. Cox E.J. (1990) Studies on the algae of a small softwater stream. II. Algal standing crop (measured by chlorophyll-a) on soft and hard substrata. *Archiv für Hydrobiologie, Supplement (Monographische Beiträge)* 83: 553–566.
  33. Cox E.J. (1990) Studies on the algae of a small softwater stream. III. Interaction between discharge, sediment composition and diatom flora. *Archiv für Hydrobiologie, Supplement (Monographische Beiträge)* 83: 567–584.
  34. Cox E.J. (1990) Microdistributional patterns of freshwater diatoms in relation to their use as bioindicators. In: Simola H. (ed.) *Proceedings of the 10th International Diatom Symposium*: 23–35. Koenigstein, Koeltz Scientific Books.
  35. Cox E.J. (1990) *Biremis ambigua* (Cleve) D. G. Mann – an unusual marine epipelagic diatom in need of further investigation. In: Ricard M. (ed.) *Ouvrage dédié à la Mémoire du Professeur Henri Germain*: 63–72. Koenigstein, Koeltz Scientific Publications.
  36. Blackwell J.R., Cox E.J., Gilmour D.J. (1991) The morphology and taxonomy of *Chlorococcum submarinum* (Chlorococcales) isolated from a tidal rock pool. *British Phycological Journal* 26: 133–139. <https://doi.org/10.1080/00071619100650101>
  37. Cox E.J. (1991) What is the basis for using diatoms as monitors of river quality? In: Whitton B.A., Rott E., Friedrich G. (eds) *The use of algae for monitoring rivers*. Proceeding of an International Symposium at Landesamt für Wasser und Abfall Nordrhein-Westfalen Düsseldorf, Germany, 26–28 May 1991: 33–40. University of Innsbruck, Austria, E. Rott.
  38. Cox E.J., Naylor C., Bradley M.C., Calow P. (1992) Effect of differing maternal food ration on adult fecundity and offspring size in laboratory cultures of *Daphnia magna* Straus for ecotoxicological testing. *Aquatic Toxicology* 23: 63–74. [https://doi.org/10.1016/0166-445X\(92\)90016-G](https://doi.org/10.1016/0166-445X(92)90016-G)
  39. Cox E.J., Naylor C., Calow P. (1992) Frozen algae as food for *Daphnia magna* Straus in toxicity testing. *Ecotoxicology and Environmental Safety* 24: 58–62. [https://doi.org/10.1016/0147-6513\(92\)90035-2](https://doi.org/10.1016/0147-6513(92)90035-2)
  40. Naylor C., Cox E.J., Bradley M.C., Calow P. (1992) Effect of differing maternal food ration on susceptibility of *Daphnia magna* Straus neonates to toxic substances. *Aquatic Toxicology* 3: 75–82. [https://doi.org/10.1016/0166-445X\(92\)90017-H](https://doi.org/10.1016/0166-445X(92)90017-H)
  41. Cox E.J. (1993) Diatom systematics – a review of past and present practice and a personal view for future development. *Nova Hedwigia, Beiheft* 106: 1–20.
  42. Cox E.J. (1993) Freshwater diatom ecology: developing an experimental approach as an aid to ecological interpretation. *Hydrobiologia* 269/270: 447–452. <https://doi.org/10.1007/BF00028042>
  43. Cox E.J. (1994) Ecological tolerances and optima – real or imaginary? *Verhandlungen der Internationalen Vereinigung der Limnologie* 25: 2238–2241. <https://doi.org/10.1080/03680770.1992.11900607>
  44. Cox E.J., Norton T.A. (1994) The effects of stress on benthic algal communities. In: Sutcliffe D.W. (ed.) *Water quality and stress indicators in marine and freshwater ecosystems: linking levels of organisation (individuals, populations, communities)*: 1–14. Freshwater Biological Association, Kendal: Titus Wilson.
  45. Cox E.J. (1995) Studies on the diatom genus *Navicula* Bory. VII. The identity and typification of *Navicula gregaria* Donkin, *N. cryptocephala* Kütz. and related taxa. *Diatom Research* 10: 91–111. <https://doi.org/10.1080/0269249X.1995.9705330>
  46. Cox E.J. (1995) Morphological variation in widely distributed diatom taxa: taxonomic and ecological implications. In: Marino D., Montresor M. (eds) *Proceedings of the 13th International Diatom Symposium*: 335–345. Bristol, Biopress.
  47. Carvalho L.R., Cox E.J., Fritz S.C., Juggins S., Sims P.A., Gasse F., Battarbee R.W. (1995) Standardizing the taxonomy of salt lake *Cyclotella* spp. *Diatom Research* 10: 229–240. <https://doi.org/10.1080/0269249X.1995.9705346>
  48. Carvalho L.R., Sims P.A., Battarbee R.W., Cox E.J., Juggins S. (1996) *Campylodiscus clypeus* (Ehrenb.) Ehrenb. in inland saline lakes. *PACT 50 (Landscapes and Life)*: 471–484.
  49. Smith D., Hughes R.G., Cox E.J. (1996) Predation of epipelagic diatoms by the amphipod *Corophium volutator* and the polychaete *Nereis diversicolor*. *Marine Ecology Progress Series* 145: 53–61. <https://doi.org/10.3354/meps145053>
  50. Cox E.J. (1997) Assessing and designating diatom taxa at or below the specific level – a consideration of current status and some suggested guidelines for future use. *Nova Hedwigia* 65: 13–26.
  51. Cox E.J. (1998) The identity and typification of some navicula-like diatoms (Bacillariophyta) from freshwater or brackish habitats. *Phycologia* 37: 162–175. <https://doi.org/10.2216/i0031-8884-37-3-162.1>
  52. Cox E.J. (1999) *Craspedostauros* gen. nov., a new diatom genus for some unusual marine raphid diatoms previously placed in *Stauroneis* Ehrenberg and *Stauronella* Mereschkowsky (Bacillariophyta). *European Journal of Phycology* 34: 131–147. <https://doi.org/10.1080/09670269910001736192>
  53. Cox E.J. (1999) Studies on the diatom genus *Navicula* Bory. VIII. Variation in valve morphology in relation to the generic diagnosis based on *Navicula tripunctata* (O.F. Müller) Bory. *Diatom Research* 14: 207–237. <https://doi.org/10.1080/0269249X.1999.9705467>
  54. Cox E.J. (1999) Variation in patterns of valve morphogenesis between representatives of six biraphid diatom genera. *Journal of Phycology* 35: 1297–1312. <https://doi.org/10.1046/j.1529-8817.1999.3561297.x>
  55. Cox E.J., Ross R. (1999) (1380–1381) Proposals to conserve the names *Frustulia cuspidata* and *Navicula ambigua* (Bacillariophyceae) with conserved types. *Taxon* 48: 137. <https://doi.org/10.2307/1224631>

56. Tittley I., Cox E.J. (1999) Algae. In: Steele J. (ed.) Deptford Creek surviving regeneration: 48–50. London, Deptford Publishing Forum.
57. Cox E.J., Williams D.M. (2000) Systematics of naviculoid diatoms: the interrelationships of some taxa with a stauros. *European Journal of Phycology* 36: 273–282. <https://doi.org/10.1080/09670260010001735871>
58. Jüttner I., Cox E.J., Ormerod S. (2000) New or poorly known diatoms from Himalayan streams. *Diatom Research* 15: 237–262. <https://doi.org/10.1080/0269249X.2000.9705498>
59. Cantonati M., Corradini G., Jüttner I., Cox E.J. (2001) Diatom assemblages in high mountain streams of the Alps and the Himalaya. *Nova Hedwigia, Beiheft* 123: 37–61.
60. Cox E.J. (2001) What constitutes a stauros? A morphogenetic perspective. In: Jahn R., Kociolek J.P., Witkowski A., Compère P. (eds) Lange-Bertalot-Festschrift. Studies on diatoms, dedicated to Prof. Dr. Dr. h.c. Horst Lange-Bertalot on the occasion of his 65th birthday: 303–316. Ruggell, A.R.G. Gantner.
61. Jüttner I., Cox E.J. (2001) Diatom communities in streams from the Kumaon Himalaya, North-West India. In: Economou-Amilli A. (ed.) Proceedings of the 16th International Diatom Symposium: 537–562. Athens, Faculty of Biology, University of Athens.
62. Massé G., Rincé Y., Cox E.J., Allard G., Belt S., Rowland S. (2001) *Haslea salstonica* sp. nov. and *Haslea pseudostrearia* sp. nov., two new marine diatoms from the Salcombe estuary, Devon, U.K. *Comptes Rendus de l'Académie des Sciences* 324: 617–626. [https://doi.org/10.1016/S0764-4469\(01\)01330-0](https://doi.org/10.1016/S0764-4469(01)01330-0)
63. Cox E.J. (2002) Diatoms: the evolution of morphogenetic complexity in single-celled plants. In: Cronk Q.C.B., Bateman R.M., Hawkins J.A. (eds) Developmental genetics and plant evolution: 459–492. London, Taylor & Francis.
64. Cox E.J. (2002) A rationale for developing rapid biomonitoring techniques using live identification of diatoms. In: John J. (ed.) Proceedings of the 15th International Diatom Symposium: 43–50. Ruggell, A.R.G. Gantner.
65. Cox E.J. (2002) Generic concepts and intrageneric variation in diatoms with particular reference to *Navicula* Bory. In: John J. (ed.) Proceedings of the 15th International Diatom Symposium: 289–304. Ruggell, A.R.G. Gantner.
66. Rose D.T., Cox E.J. (2002) Diatoms (Bacillariophyta) from benthic habitats in seven upland lakes within the Mguna San Rafael National Park, Chile. *Boletín del Museo Nacional de Historia Natural, Chile* 51: 7–33.
67. Cox E.J. (2003) *Placoneis* Mereschkowsky revisited: towards the resolution of several typification and nomenclatural problems. *Botanical Journal of the Linnean Society* 141: 53–83. <https://doi.org/10.1046/j.1095-8339.2003.00115.x>
68. Cox E.J. (2003) Sorting out the rag-bag: live material, SEM data and the systematics of naviculoid diatoms. *Quekett Journal of Microscopy* 39: 447–458.
69. Cox E.J. (2003) Taxonomy of diatoms: a fascination with minutiae. In: Norton T.A. (ed.) Out of the past. Collected reviews to celebrate the jubilee of the British Phycological Society: 49–67. The British Phycological Society.
70. Jüttner I., Sharma S., Dahal B.M., Ormerod S., Chimonides P.J., Cox E.J. (2003) Diatoms as indicators of stream quality in the Kathmandu Valley and Middle Hills of Nepal and India. *Freshwater Biology* 48: 2065–2084. <https://doi.org/10.1046/j.1365-2427.2003.01138.x>
71. Cox E.J. (2004) Pore occlusions in raphid diatoms – a reassessment of their structure and terminology. *Diatom* 20: 33–46.
72. Cox E.J., Kennaway G.M. (2004) Studies of valve morphogenesis in pennate diatoms: investigating aspects of cell biology in a systematic context. In: Poulin M. (ed.) Proceedings of the 17th International Diatom Symposium: 35–48. Bristol, Biopress.
73. Cox E.J., Reid G. (2004) Generic relationships within the Naviculineae – a preliminary cladistic analysis. In: Poulin M. (ed.) Proceedings of the 17th International Diatom Symposium: 49–62. Bristol, Biopress.
74. Cox E.J., Ross R. (2004) (1633) Proposal to conserve the name *Pinnularia gastrum* Ehrenberg with a conserved type (Bacillariophyta). *Taxon* 53: 830. <https://doi.org/10.2307/4135460>
75. Cox E.J., Witkowski A. (2004) Workshop report on Taxonomy – types, nomenclature, new combinations. In: Poulin M. (ed.) Proceedings of the 17th International Diatom Symposium: 463–466. Bristol, Biopress.
76. Jüttner I., Reichardt E., Cox E.J. (2004) Taxonomy and ecology of some new Gomphonema species common in Himalayan streams. *Diatom Research* 19: 235–264. <https://doi.org/10.1080/0269249X.2004.9705873>
77. Trobajo R., Cox E.J., Quintana X.D. (2004) The effects of some environmental variables on the morphology of *Nitzschia frustulum* (Bacillariophyta), in relation its use as a bioindicator. *Nova Hedwigia* 79: 433–445. <https://doi.org/10.1127/0029-5035/2004/0079-0433>
78. Bentley K., Cox E.J., Bentley P.J. (2005) Nature's batik: a computer evolution model of diatom valve morphogenesis. *Journal of Nanoscience and Nanotechnology* 5: 25–34. <https://doi.org/10.1166/jnn.2005.004>
79. Congestri R., Cox E.J., Cavacini P., Albertano P. (2005) Diatoms (Bacillariophyta) in phototrophic biofilms colonising an Italian wastewater treatment plant. *Diatom Research* 20: 241–255. <https://doi.org/10.1080/0269249X.2005.9705634>
80. Cox E.J. (2005) A proposal to conserve the name *Pinnularia gastrum* Ehrenberg with a conserved type has been published. *Diatom Research* 20: 217–218. <https://doi.org/10.1080/0269249X.2005.9705629>
81. Toyoda K., Cox E.J., Sims P.A., Williams D.M. (2005) The typification of *Achnanthes* Bory based on *Echinella stipitata* Lyngbye, with an account of the morphology and fine structure of Lyngbye's species. *Diatom Research* 20: 375–386. <https://doi.org/10.1080/0269249X.2005.9705643>
82. Cox E.J., Williams D.M. (2006) Systematics of naviculoid diatoms (Bacillariophyta): a preliminary analysis of protoplast and frustule characters for family and order level classification. *Systematics and Biodiversity* 4: 385–399. <https://doi.org/10.1017/S1477200006001940>
83. Cox E.J. (2006) *Achnanthes* sensu stricto belongs with genera of the Mastogloiales rather than with other monoraphid diatoms (Bacillariophyta). *European Journal of Phycology* 41: 67–81. <https://doi.org/10.1080/09670260500491543>
84. Cox E.J. (2006) Raphe loss and spine formation in *Diademesma gallica* (Bacillariophyta) – an intriguing example of phenotypic polymorphism in a diatom. *Nova Hedwigia* 130: 163–175.
85. Toyoda K., Cox E.J., Sims P.A., Williams D.M. (2006) (1718) Proposal to conserve *Achnanthes brevipes* (Bacillariophyceae) against *A. adnata*, *A. bacillarioides* and *A. dubia*, with a conserved type. *Taxon* 55: 527–528. <https://doi.org/10.2307/25065603>

86. Trobajo R., Cox E.J. (2006) Examination of the type material of *Nitzschia frustulum* (Kütz.) Hassall and *N. palea* (Kütz.) W. Smith. In: Witkowski A. (ed.) Proceedings of the 18th International Diatom Symposium: 431–445. Bristol, Biopress.
87. Trobajo R., Mann D.G., Chepurinov V.A., Clavero E., Cox E.J. (2006) Taxonomy, life cycle, and auxosporulation of *Nitzschia fonticola* (Bacillariophyta). *Journal of Phycology* 42: 1353–1372. <https://doi.org/10.1111/j.1529-8817.2006.00291.x>
88. Carr A., Jones G.C., Cox E.J. (2008) An embedding, polishing and etching procedure for examining the 3-D structure of diatoms with SEM. *Cryptogamie Algologie* 29: 285–291.
89. Cox E.J. (2009) What's in a name? Diatom classification should reflect systematic relationships. *Acta Botanica Croatica* 68: 443–454.
90. Trobajo R., Clavero E., Chepurinov V.A., Sabbe K., Mann D.G., Ishihara S., Cox E.J. (2009) Morphological, genetic and mating diversity within the widespread bioindicator *Nitzschia palea* (Bacillariophyceae). *Phycologia* 48: 443–459. <https://doi.org/10.2216/08-69.1>
91. Cox E.J. (2010) Morphogenetic information and the selection of taxonomic characters for raphid diatom systematics. *Plant Ecology and Evolution* 143: 271–277. <https://doi.org/10.5091/plecevo.2010.403>
92. Jüttner I., Chimonides P.D.J., Ormerod S.J., Cox E.J. (2010) Ecology and biogeography of Himalayan diatoms: distribution along gradients of altitude, stream habitat and water chemistry. *Fundamental and Applied Limnology* 177: 293–311. <https://doi.org/10.1127/1863-9135/2010/0177-0293>
93. Jüttner I., Krammer K., Van de Vijver B., Tuji A., Simkhada B., Gurung S., Sharma S., Sharma C., Cox E.J. (2010) *Orycymba* (Cymbellales, Bacillariophyceae), a new cymbelloid genus and three new species from the Nepalese Himalaya. *Phycologia* 49: 407–423. <https://doi.org/10.2216/09-77.1>
94. Willis L., Page K.M., Broomhead D.S., Cox E.J. (2010) Discrete free-boundary reaction-diffusion model of diatom pore occlusions. *Plant Ecology and Evolution* 143: 297–306. <https://doi.org/10.5091/plecevo.2010.415>
95. Woodbridge J., Roberts N., Cox E.J. (2010) Morphology and ecology of a new centric diatom from Cappadocia (Central Turkey). *Diatom Research* 25: 195–212. <https://doi.org/10.1080/0269249X.2010.9705839>
96. Cox E.J. (2011) Morphology, cell wall, cytology, ultrastructure and morphogenetic studies. Overview and specific observations. In: Seckbach J., Kociolek J.P. (eds) *The Diatom World*: 23–45. Dordrecht, Springer. [https://doi.org/10.1007/978-94-007-1327-7\\_2](https://doi.org/10.1007/978-94-007-1327-7_2)
97. Cox E.J., Marxen J., Horvath P. (2011) Primary producers. In: Wagner R., Marxsen J., Zwick P., Cox E.J. (eds) *Central European stream ecosystems. The long term study of the Breitenbach*: 99–129. Weinheim, Wiley-VCH. <https://doi.org/10.1002/9783527634651.ch5>
98. Jüttner I., Cox E.J. (2011) *Achnantheidium pseudoconspicuum* comb. nov.: morphology and ecology of the species and a comparison with related taxa. *Diatom Research* 26: 21–28. <https://doi.org/10.1080/0269249X.2011.573707>
99. Martin-Cereceda M., Cox E.J. (2011) Morphological variation in a small *Thalassiosira* species (Bacillariophyta) under different culture regimes. *Botanica Marina* 54: 563–574. <https://doi.org/10.1515/BOT.2011.063>
100. Souffreau C., Verbruggen H., Wolfe A.P., Vanormelingen P., Siver P.A., Cox E.J., Mann D.G., Van de Vijver B., Sabbe K., Vyverman W. (2011) A time-calibrated multi-gene phylogeny of the diatom genus *Pinnularia*. *Molecular Phylogenetics and Evolution* 61: 866–879. <https://doi.org/10.1016/j.ympev.2011.08.031>
101. Trobajo R., Rovira L., Mann D.G., Cox E.J. (2011) Effects of salinity on growth and on valve morphology of five estuarine diatoms. *Phycological Research* 59: 83–90. <https://doi.org/10.1111/j.1440-1835.2010.00603.x>
102. Van de Vijver B., Jüttner I., Gurung S., Sharma C., Sharma S., de Haan M., Cox E.J. (2011) The genus *Cymbopleura* (Cymbellales, Bacillariophyta) from high altitude freshwater habitats, Everest National Park, Nepal, with the description of two new species. *Fottea* 11: 245–269. <https://doi.org/10.5507/fot.2011.025>
103. Bentley K., Clack C., Cox E.J. (2012) Diatom colony formation: a computational study predicts a single mechanism can produce both linkage and separation valves due to an environmental switch. *Journal of Phycology* 48: 716–728. <https://doi.org/10.1111/j.1529-8817.2012.01176.x>
104. Cantonati M., Fureder L., Gerecke R., Jüttner I., Cox E.J. (2012) Crenic habitats, hotspots for freshwater biodiversity conservation: toward an understanding of their ecology. *Freshwater Science* 31: 463–480. <https://doi.org/10.1899/11-111.1>
105. Cox E.J. (2012) Ontogeny, homology, and terminology – wall morphogenesis as an aid to character recognition and character state definition for pennate diatom systematics. *Journal of Phycology* 48: 1–31. <https://doi.org/10.1111/j.1529-8817.2011.01081.x>
106. Cox E.J. (2012) Diatoms and forensic science. In: Marquéz-Grant N., Roberts J. (eds) *Forensic ecology handbook. From crime scene to court*: 141–151. Chichester, Wiley. <https://doi.org/10.1002/9781118374016.ch9>
107. Cox E.J., Willis L., Bentley K. (2012) Integrated simulation with experimentation is a powerful tool for understanding diatom valve morphogenesis. *Biosystems* 109: 450–459. <https://doi.org/10.1016/j.biosystems.2012.05.012>
108. Gastineau R., Davidovich N.A., Bardeau J.F., Caruso A., Leignel V., Hardivillier Y., Jacqueline B., Davidovich O.I., Rince Y., Gaudin P., Cox E.J., Mouget J.L. (2012) *Haslea karadagensis* (Bacillariophyta): a second blue diatom, recorded from the Black Sea and producing a novel blue pigment. *European Journal of Phycology* 47: 469–479. <https://doi.org/10.1080/09670262.2012.741713>
109. Trobajo R., Mann D.G., Cox E.J. (2012) Studies on the type material of *Nitzschia abbreviata* (Bacillariophyta). *Nova Hedwigia, Beiheft* 141: 185–199.
110. Van de Vijver B., Ector L., Cox E.J. (2012) Ultrastructure of *Diatomella balfouriana* with a discussion of septum-like structures in diatom genera. *Diatom Research* 27: 213–221. <https://doi.org/10.1080/0269249X.2012.720612>
111. Wetzel C.E., Van de Vijver B., Cox E.J., Bicudo D.D., Ector L. (2012) *Tursiocola podocnemicola* sp. nov., a new epizoic freshwater diatom species from the Rio Negro in the Brazilian Amazon Basin. *Diatom Research* 27: 1–8. <https://doi.org/10.1080/0269249X.2011.642498>
112. Adams G.L., Pichler D.E., Cox E.J., O’Gorman E.J., Seeney A., Woodward G., Reuman D.C. (2013) Diatoms can be an important exception to temperature-size rules at species and community levels of organization. *Global Change Biology* 19: 3540–3552. <https://doi.org/10.1111/gcb.12285>
113. Jüttner I., Ector L., Reichardt E., Van de Vijver B., Jarlman A., Krokowski J., Cox E.J. (2013) *Gomphonema varioreducum* sp. nov., a new species from northern and western Europe and a re-examination of *Gomphonema exilissimum*.



- Diatom Research 28: 303–316. <https://doi.org/10.1080/0269249X.2013.797924>
114. Rose D.T., Cox E.J. (2013) Some diatom species do not show a gradual decrease in cell size as they reproduce. *Fundamental and Applied Limnology* 182: 117–122. <https://doi.org/10.1127/1863-9135/2013/0406>
115. Van de Vijver B., Cox E.J. (2013) New and interesting small-celled naviculoid diatoms (Bacillariophyceae) from a lava tube cave on Ile Amsterdam (TAAF, Southern Indian Ocean). *Cryptogamie Algologie* 34: 37–47. <https://doi.org/10.7872/crya.v34.iss1.2013.37>
116. Van de Vijver B., Kopalova K., Zidarova R., Cox E.J. (2013) New and interesting small-celled naviculoid diatoms (Bacillariophyta) from the Maritime Antarctic Region. *Nova Hedwigia* 97: 189–208. <https://doi.org/10.1127/0029-5035/2013/0101>
117. Willis L., Cox E.J., Duke T. (2013) A simple probabilistic model of submicroscopic diatom morphogenesis. *Journal of the Royal Society Interface* 10: 2013.0067. <https://doi.org/10.1098/rsif.2013.0067>
118. Zgrundo A., Lemke P., Pniewski F., Cox E.J., Latala A. (2013) Morphological and molecular phylogenetic studies on *Fistulifera saprophila*. *Diatom Research* 28: 431–443. <https://doi.org/10.1080/0269249X.2013.833136>
119. Cox E.J. (2014) Diatom identification in the face of changing species concepts and evidence of phenotypic plasticity. *Journal of Micropalaeontology* 33: 111–120. <https://doi.org/10.1144/jmpaleo2014-014>
120. Rose D.T., Cox E.J. (2014) What constitutes *Gomphonema parvulum*? Long-term culture studies show that some varieties of *G. parvulum* belong with other *Gomphonema* species. *Plant Ecology and Evolution* 147: 366–373. <https://doi.org/10.5091/plecevo.2014.1059>
121. Cox E.J. (2015) Diatoms, Diatomeae (Bacillariophyceae s.l., Bacillariophyta). In: Frey W. (ed.) *Syllabus of Plant Families. Adolf Engler's Syllabus of Plant Families, Edition 13*: 64–103. Stuttgart, Borntraeger.
122. Rad-Menendez C., Stanley M., Green D.H., Cox E.J., Day J.G. (2015) Exploring cryptic diversity in publicly available strains of the model diatom *Thalassiosira pseudonana* (Bacillariophyceae). *Journal of the Marine Biological Association of the United Kingdom* 95: 1081–1090. <https://doi.org/10.1017/S0025315415000120>
123. Van de Vijver B., Cox E.J. (2015) *Fallacia emmae* sp. nov., (Bacillariophyta) a new soil-inhabiting diatom species from the sub-Antarctic Region. *Cryptogamie Algologie* 36: 245–254. <https://doi.org/10.7872/crya/v36.iss3.2015.245>
124. Poulíčková A., Neustupa J., Hašler P., Tomanec O., Cox E.J. (2016) A new species, *Navicula lothargeitleri* sp. nov., within the *Navicula cryptocephala* complex (Bacillariophyceae). *Phytotaxa* 273: 23–33. <https://doi.org/10.11646/phytotaxa.273.1.2>
125. Jüttner I., Williams D.M., Gurung S., Van de Vijver B., Levkov Z., Sharma C.M., Sharma S., Cox E.J. (2017) The genus *Odontidium* (Bacillariophyta) in the Himalaya – a preliminary account of some taxa and their distribution. *Phytotaxa* 332: 1–21. <https://doi.org/10.11646/phytotaxa.332.1.1>
126. Poulíčková A., Letáková M., Hašler P., Cox E., Duchoslav M. (2017) Species complexes within epiphytic diatoms and their relevance for the bioindication of trophic status. *Science of the Total Environment* 599: 820–833. <https://doi.org/10.1016/j.scitotenv.2017.05.034>
127. Tyler J.J., Sloane H.J., Rickaby R.E.M., Cox E.J., Leng M.J. (2017) Post-mortem oxygen isotope exchange within cultured diatom silica. *Rapid Communications in Mass Spectrometry* 31: 1749–1760. <https://doi.org/10.1002/rcm.7954>
128. Zhang W., Jüttner I., Cox E.J., Chen Q., Tan H.X. (2018) *Cymbella liyangensis* sp. nov., a new cymbelloid species (Bacillariophyceae) from streams in North Tianmu Mountain, Jiangsu province, China. *Phytotaxa* 348: 14–22.

### Books and others contributions

- Cox E.J. (1975) Studies on the biology of tube-dwelling pennate diatoms. PhD dissertation, University of Bristol, UK. Vol 1: a–g, 197 pp, i–xii, Vol 2: 68 pls.
- Calow P. (ed.) (1990) River Water Quality. British Ecological Society, Ecological Issues No.1. (Committee: P. Armitage, P. Boon, P. Chave, E.J. Cox, A. Hildrew, M. Learner, L. Maltby, G. Morris, J. Seager, B.A. Whitton).
- Cox E.J. (1996) The identification of freshwater diatoms from live material. London, Chapman & Hall.
- Kelly M.G., Bennion H., Cox E.J., Goldsmith B., Jamieson J., Juggins S., Mann D.G., Telford, R.J. (2007) Common freshwater diatoms of Britain and Ireland: an interactive key: SRA2. CD-ROM. Bristol, Environment Agency.
- Cox E.J., Marxen J., Horvath P. (2011) Primary producers. In: Wagner R., Marxsen J., Zwick P., Cox E.J. (eds) *Central European Stream Ecosystems. The long term study of the Breitenbach*: 99–129. Weinheim, Wiley-VCH Verlag. <https://doi.org/10.1002/9783527634651.ch5>
- Wagner R., Marxen J., Zwick P., Cox E.J. (eds) (2011) *Central European Stream Ecosystems. The long term study of the Breitenbach*. Weinheim, Wiley-VCH Verlag. <https://doi.org/10.1002/9783527634651>

### Diatom taxa described by Eileen J. Cox

Year of publication is added after authors names.

- Achnantheidium minutissimum* var. *inconspicuum* (Østrup) Jüttner & E.J.Cox, 2010
- Achnantheidium pseudoconspicuum* (Foged) Jüttner & E.J.Cox, 2011
- Achnantheidium rostrumpyrenaicum* Jüttner & E.J.Cox, 2011
- Adlafia submuscora* Van de Vijver, Kopalová, Zidarova & E.J.Cox, 2013
- Aneumastus pseudotusculus* (Hust.) E.J.Cox & D.M.Williams, 2000 (currently *Aneumastus stroesei* (Østrup) D.G.Mann)
- Berkeleya hyalina* (Round & M.E.Brooks) E.J.Cox, 1975
- Berkeleya scopulorum* (Bréb. ex Kütz.) E.J.Cox, 1979
- Biremis* D.G.Mann & E.J.Cox, 1990
- Carinasigma latum* (E.J.Cox) G.Reid, 2012
- Chamaepinnularia antarctica* Van de Vijver, Kopalová, Zidarova & E.J.Cox, 2013
- Climaconeis delicatula* (Cleve) E.J.Cox, 1982
- Climaconeis fasciculata* (Grunow ex Cleve) E.J.Cox, 1982
- Climaconeis inflexa* (Bréb. ex Kütz.) E.J.Cox, 1982
- Climaconeis scalaris* (Bréb.) E.J.Cox, 1982
- Climaconeis scopulorioides* (Hust.) E.J.Cox, 1982
- Clipeoparvus* Woodbridge, E.J.Cox & N.Roberts, 2010

- Clipeoparvus anatolicus* Woodbridge, E.J.Cox & N.Roberts, 2010
- Craspedostauros* E.J.Cox, 1999
- Craspedostauros amphorooides* (Grunow ex A.Schmidt) E.J.Cox, 1999
- Craspedostauros australis* E.J.Cox, 1999
- Craspedostauros britannicus* E.J.Cox, 1999
- Craspedostauros capensis* E.J.Cox, 1999
- Craspedostauros decipiens* (Hust.) E.J.Cox, 1999
- Craspedostauros indubitabilis* (Lange-Bert. & S.I.Genkal) E.J.Cox, 1999
- Craspedostauros neoconstrictus* E.J.Cox, 1999
- Craticula glaberrima* (West & G.S.West) Van de Vijver, Kopalová, Zidarova & E.J.Cox, 2013
- Cymbella liyangensis* W.Zhang, Jüttner & E.J.Cox, 2018
- Donkinia lata* E.J.Cox, 1983 (now *Carinasigma latum* (E.J.Cox) G.Reid)
- Fallacia emmae* Van de Vijver & E.J.Cox, 2015
- Gomphonema chubichuense* I.Jüttner & E.J.Cox, 2000 (currently *Gomphosinica chubichuensis* (I.Jüttner & E.J.Cox) Kocielek, You & X.Wang)
- Gomphonema incognitum* E.Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema makaluense* E.Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema nediense* E.Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema nepalense* E.Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema pararhombicum* E.Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema saccatum* E.Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema sinestigma* Reichardt, Jüttner & E.J.Cox, 2004
- Gomphonema varioeduncum* Jüttner, Ector, Reichardt, Van de Vijver & E.J.Cox, 2013
- Haslea pseudostrearia* Massé, Rincé & E.J.Cox, 2001
- Haslea salstonica* Massé, Rincé & E.J.Cox, 2001
- Mayamaea cavernicola* Van de Vijver & E.J.Cox, 2013
- Microcostatus australoshetlandicus* Van de Vijver, Kopalová, Zidarova & E.J.Cox, 2013
- Navicula obtecta* Jüttner & E.J.Cox, 2000
- Odontidium himalongissimum* Jüttner, D.M.Williams & E.J.Cox 2017
- Odontidium longiovalum* Jüttner, D.M.Williams & E.J.Cox, 2017
- Odontidium parvoapiculatum* Jüttner, D.M.Williams & E.J.Cox, 2017
- Oricymba* Jüttner, Krammer, E.J.Cox, Van de Vijver & Tuji, 2010
- Oricymba japonica* (Reichelt) Jüttner, E.J.Cox, Krammer & Tuji, 2010  
(represented as *Cymbella japonica* Reichelt, 1898)
- Oricymba subaequalis* Jüttner, Krammer, Cox, Van de Vijver & Tuji, 2010
- Oricymba subovalis* Jüttner, Krammer & Cox, 2010
- Parlibellus* E.J.Cox, 1988
- Parlibellus berkeleyi* (Kütz.) E.J.Cox, 1988
- Parlibellus biblos* (Cleve) E.J.Cox, 1988
- Parlibellus delognei* (Van Heurck) E.J.Cox, 1988
- Parlibellus delognei f. ellipticus* (Lobban) E.J.Cox, 1988
- Parlibellus densepunctatus* E.J.Cox, 1988
- Parlibellus grevilleoides* (Hust.) E.J.Cox, 1988
- Parlibellus hagelsteinii* E.J.Cox, 1988
- Parlibellus plicatus* (Donkin) E.J.Cox, 1988
- Parlibellus rhombicus* (W.Greg.) E.J.Cox, 1988
- Parlibellus rhombiformis* (Hust.) E.J.Cox, 1988
- Parlibellus schuettii* (Van Heurck) E.J.Cox, 1988
- Parlibellus tubulosus* (Brun) E.J.Cox, 1988
- Parlibellus valens* (Hust.) E.J.Cox, 1988
- Parlibellus weissflogii* (Grunow ex Cleve) E.J.Cox, 1988
- Placoneis amphibola* (Cleve) E.J.Cox, 2003
- Placoneis anglica* (Ralfs) E.J.Cox (currently *Placoneis elginensis* (W.Greg.) E.J.Cox)
- Placoneis clementioides* (Hust.) E.J.Cox, 1987
- Placoneis clementis* (Grunow) E.J.Cox, 1987
- Placoneis constans* (Hust.) E.J.Cox, 2003
- Placoneis elginensis* (W.Greg.) E.J.Cox, 1987
- Placoneis insignita* (Hust.) E.J.Cox, 2003
- Placoneis interglacialis* (Hust.) E.J.Cox, 2003
- Placoneis navicularis* (Ehrenb.) E.J.Cox, 2003
- Placoneis pseudanglica* E.J.Cox, 1987 (currently *Placoneis anglophila* (Lange-Bert.) Lange-Bert.)
- Placoneis rostrata* (A.Mayer) E.J.Cox, 2003
- Placoneis subgastriformis* (Hust.) E.J.Cox, 2003
- Placoneis subplacentula* (Hust.) E.J.Cox, 2003  
(currently *Paraplaconeis subplacentula* (Hust.) Kulikovskiy & Lange-Bert.)
- Sellaphora barae* Van de Vijver & E.J.Cox, 2013
- Seminavis pusilla* (Grunow) E.J.Cox & G.Reid, 2004  
(currently *Navicymbula pusilla* (Grunow) Krammer)
- Synedra inaequalis* var. *jumlensis* Jüttner & E.J.Cox, 2000
- Ulnariaceae E.J.Cox, 2015

#### Taxa named after Eileen J. Cox

- Achnanthidium coxianum* Jüttner, Ector & C.E.Wetzel, 2019, this Festschrift
- Amphora eileencoxiae* Cantonati, Levkov & Lange-Bert., 2019, this Festschrift
- Climaconeis coxiae* G.Reid & D.M.Williams, 2002



*Distrionella coxiana* Casa & Van de Vijver, 2019, this Festschrift  
*Eileencoxia* S.Blanco & C.E.Wetzel, 2016  
*Eileencoxia guillauminii* (E.Manguin ex Kociolek & Reviere) S.Blanco & C.E.Wetzel, 2016 [replacement name for *Coxia guillauminii* (E.Manguin ex Kociolek & Reviere) Moser, Lange-Bert. & Metzeltin, 1998]  
*Gomphonema eileencoxiae* (Bahls) Bahls, C.E.Wetzel & Ector, 2018 [basonym *Kurtkammeria eileencoxiae* Bahls, 2017]  
*Gomphonella coxiae* R.Jahn & N.Abarca, 2019, this Festschrift  
*Hippodonta coxiae* Lange-Bert., 2001  
*Muelleria coxiana* Levkov, Vidaković, Cvetkoska, Mitić-Kopanja, Krstić, Van de Vijver & P.B.Hamilton, 2019, this Festschrift  
*Navicula eileencoxiana* Van de Vijver & Sabbe, 2019, this Festschrift

*Navicula eileeniae* Potapova & Ciugulea, 2019, this Festschrift  
*Parlibellus coxiae* A.Witkowski, Lange-Bert. & Metzeltin, 1996  
*Placoneis coxiae* Kociolek & E.W.Thomas, 2010  
*Sellaphora pausariae* Pouličková & D.G.Mann, 2019, this Festschrift  
*Simonsenia eileencoxiae* B.-S.Kim, J.-G.Park & Witkowski, 2019, this Festschrift

#### SUPPLEMENTARY DATA

Supplementary Data are available at *Plant Ecology and Evolution*, Supplementary Data Site (<https://www.ingentaconnect.com/content/botbel/plecevo/supp-data>) and consists of Eileen's own description of her journey in diatoms, written for the young diatomists' blog.