Supplementary Materials

**[Table S1.](#_Toc45217525)** [List of diatom taxa found in loggerhead skin samples (HPM9, HPM69, HPM70, HPM25, HPM48, HPM33 and HPM71) and their relative abundances.](#_Toc45217525)

[2](#_Toc45217525)

**Table S1.** List of diatom taxa found in loggerhead skin samples (HPM9, HPM69, HPM70, HPM25, HPM48, HPM33 and HPM71) and their relative abundances.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Taxa** | **HPM9** | **HPM69** | **HPM70** | **HPM25** | **HPM48** | **HPM33** | **HPM71** |
| *Achnanthes elongata* Majewska & Van de Vijver\* | 33.2 |  |  | 5.8 | 5.0 | 11.5 | 0.3 |
| *Achnanthes* sp.1 |  |  |  |  |  |  | 4.8 |
| cf. *Achnanthes* |  | 1.0 |  |  |  |  |  |
| *Amphora* cf. *bigibba* Grunow |  | 0.5 |  |  | 0.2 |  |  |
| *Amphora* cf. *delicatissima* Krasske |  | 0.2 |  |  |  |  |  |
| *Amphora* cf. *proteoides* Hustedt |  |  | 0.2 |  |  |  |  |
| *Amphora* cf. *pusio* Cleve |  |  |  |  |  |  | 0.3 |
| *Amphora* cf. *rhombica* var. *intermedia* Cleve |  |  |  | 0.6 |  |  |  |
| *Amphora* sp.1 |  | 0.7 |  |  |  |  |  |
| *Amphora* sp.2 |  | 0.2 |  |  |  |  |  |
| *Amphora* sp.3 |  |  | 0.2 |  |  |  |  |
| *Amphora* sp.4 |  |  |  | 0.6 |  |  |  |
| *Amphora* sp.5 |  |  |  | 0.3 |  |  |  |
| *Amphora* sp.6 |  |  |  |  |  | 0.3 |  |
| *Amphora* sp.7 |  |  |  |  |  |  | 0.3 |
| *Amphora* *turgida* W.Gregory |  | 0.2 |  |  |  |  |  |
| *Astartiella* cf. *bahusiensis* (Grunow) Witkowski, Lange-Bertalot & Metzeltin |  | 3 |  |  |  |  |  |
| *Bacillaria* sp.1 |  |  |  |  |  | 0.3 |  |
| *Berkeleya* cf. *fennica* Juhlin-Dannfelt |  |  |  | 5.2 |  |  | 52.2 |
| *Bidulphia* sp.1 |  |  | 0.2 |  |  |  |  |
| *Catacombas* cf. *camtschatica* (Grunow) D.M.Williams & Round |  |  |  |  |  |  | 0.3 |
| *Catenula* sp.1 |  |  | 1.2 |  |  | 0.3 |  |
| *Chelonicola* sp.\* |  | 49.5 | 12.5 |  | 5.7 | 6.3 | 1.4 |
| *Cocconeis* *convexa* Giffen |  |  | 0.9 |  |  |  | 0.7 |
| *Cocconeis* *neothumensis* var. *marina* De Stefano, D.Marino, & Mazzella |  |  | 0.2 |  |  |  |  |
| *Cocconeis* *scutellum* Ehrenberg |  | 0.5 | 0.7 | 0.3 |  | 0.3 | 1.4 |
| *Cocconeis* sp.1 |  | 0.2 |  |  |  |  |  |
| **Taxa** | **HPM9** | **HPM69** | **HPM70** | **HPM25** | **HPM48** | **HPM33** | **HPM71** |
| *Cocconeis* sp.2 |  | 3.1 |  |  |  |  |  |
| *Cocconeis* sp.3 |  | 0.7 |  |  |  |  |  |
| *Cocconeis* sp.4 |  |  | 0.2 |  |  |  |  |
| *Cocconeis* sp.5 |  |  | 0.2 |  |  |  |  |
| *Cocconeis* sp.6 |  |  |  |  | 0.2 |  |  |
| *Cyclophora* *tenuis* Castracane |  |  |  | 0.3 |  |  |  |
| *Cyclotella* sp.1 |  |  |  |  | 0.2 |  |  |
| *Cyclotella* sp.2 |  |  |  |  | 0.2 |  |  |
| *Cyclotella* sp.3 |  |  |  |  |  | 0.3 |  |
| *Cyclotella* sp.4 |  |  |  |  |  |  | 1.4 |
| *Cyclotella* sp.5 |  |  |  |  |  |  | 0.3 |
| *Denticula* sp. |  |  | 0.5 |  |  |  |  |
| *Dimeregramma* *acutum* Hustedt |  | 0.2 |  |  |  |  |  |
| *Diploneis* *decipiens* var. *parallela* A.Cleve |  | 0.2 |  |  |  | 0.3 |  |
| *Diploneis* *smithii* (Brébisson) Cleve |  | 0.2 |  |  |  |  |  |
| *Diploneis* sp.1 |  | 0.5 |  |  |  |  |  |
| *Diploneis* sp.2 |  | 0.2 |  |  |  |  |  |
| *Diploneis* sp.3 |  |  |  |  |  | 0.3 |  |
| *Encyonema* cf. *minutum* (Hilse) D.G.Mann |  |  |  |  |  |  | 0.3 |
| *Encyonema* sp.1 |  |  | 1.4 |  |  |  |  |
| *Encyonema* sp.2 |  |  | 2.3 |  |  |  |  |
| *Fragilaria* sp.1 |  |  | 0.2 |  |  |  |  |
| *Fragilariopsis* sp.1 |  |  |  | 0.3 |  |  |  |
| *Grammatophora* sp.1 |  |  | 0.2 |  |  |  |  |
| *Grammatophora* sp.2 |  |  |  | 0.3 |  |  |  |
| *Halamphora* cf. *coffeiformis* (C.Agardh) Mereschkowsky | 0.7 | 0.7 |  | 0.3 |  |  |  |
| *Halamphora* *coffeiformis* (C.Agardh) Mereschkowsky |  |  | 0.2 |  |  |  | 1.0 |
| *Halamphora* *wisei* (M.M.Salah) I.Álvarez-Blanco & S.Blanco |  | 0.2 |  |  |  |  |  |
| **Taxa** | **HPM9** | **HPM69** | **HPM70** | **HPM25** | **HPM48** | **HPM33** | **HPM71** |
| *Haslea* cf. *stundlii* (Hustedt) Blanco, Borrego-Ramos & Olenici | 0.2 |  | 4.6 |  | 1.0 |  |  |
| *Haslea* sp.1 |  | 1.0 |  |  |  |  |  |
| *Hyalosira* sp.1 |  |  |  | 0.3 |  |  |  |
| *Hyalosira* spec.3 (Witk.) |  | 1.2 |  |  |  |  |  |
| *Hyalosynedra* *hyalina* (Grunow) Álvarez-Blanco & S.Blanco |  |  |  | 0.3 |  |  |  |
| *Licmophora* *abbreviata* C.Agardh |  |  |  | 3.1 |  |  |  |
| *Licmophora* *hyalina* (Kützing) Grunow |  |  |  | 16.6 |  |  |  |
| *Mastogloia* sp.1 |  |  |  |  |  | 0.3 |  |
| *Melosira* sp.1 |  |  | 0.2 |  |  |  |  |
| *Medlinella amphoroidea*\* Frankovich, Ashworth & M.J. Sullivan |  |  |  |  |  |  | 2.4 |
| *Nagumoea* sp. | 1.2 |  |  | 5.2 | 0.2 |  |  |
| *Nanofrustulum* *sopotense* (Witkowski & Lange-Bertalot) E.Morales, C.E.Wetzel & Ector |  | 0.2 |  |  |  |  |  |
| cf. *Navicula* sp. |  | 0.5 |  |  |  |  |  |
| *Navicula* cf. *agnita* Hustedt |  |  | 0.2 |  |  |  |  |
| *Navicula* cf. *capitatoradiata* H.Germain ex Gasse |  |  | 0.2 |  |  |  |  |
| *Navicula* cf. *longa* var. *irregularis* Hustedt |  |  |  |  | 0.2 |  |  |
| *Navicula* sp.1 | 0.5 |  |  |  |  |  |  |
| *Navicula* sp.2 |  | 0.2 |  |  |  |  |  |
| *Navicula* sp.3 |  |  | 0.2 |  |  |  |  |
| *Navicula* sp.4 |  |  |  | 1.2 |  |  |  |
| *Navicula* sp.5 |  |  |  | 0.3 |  |  |  |
| *Navicula* sp.6 |  |  |  |  |  | 1.4 |  |
| *Navicula* sp.7 |  |  |  |  |  |  | 16.5 |
| *Nitzschia* cf. *lanceolata* W.Smith |  |  | 0.2 |  | 7.1 |  |  |
| *Nitzschia* sp.1 |  | 0.2 |  |  |  |  |  |
| *Nitzschia* sp.2 |  | 0.2 |  |  |  |  |  |
| *Nitzschia* sp.3 |  |  | 0.2 |  |  |  |  |
| *Nitzschia* sp.4 |  |  | 0.2 |  |  |  |  |
| **Taxa** | **HPM9** | **HPM69** | **HPM70** | **HPM25** | **HPM48** | **HPM33** | **HPM71** |
| *Nitzschia* sp.5 |  |  | 0.2 |  |  |  |  |
| *Nitzschia* sp.6 |  |  |  | 2.5 |  |  |  |
| *Nitzschia* sp.7 |  |  |  |  | 3.1 |  |  |
| *Nitzschia* sp.8 |  |  |  |  | 1.4 |  |  |
| *Nitzschia* sp.9 |  |  |  |  |  | 0.7 |  |
| *Nitzschia* spec.210/1 (Witkowski) |  |  | 1.9 |  |  |  |  |
| cf. *Pinnularia* sp.1 |  | 0.2 |  |  |  |  |  |
| cf. *Pinnularia* sp.2 |  | 0.2 |  |  |  |  |  |
| cf. *Planothidium* sp. |  | 0.2 |  |  |  |  |  |
| *Planothidium* cf. *frequentissimum* (Lange-Bertalot) Lange-Bertalot |  |  |  |  | 0.2 |  |  |
| *Planothidium* sp.1 |  |  | 0.5 |  |  |  |  |
| *Planothidium* sp.2 |  |  | 0.7 |  |  |  |  |
| *Planothidium* sp.3 |  |  |  |  |  | 0.3 |  |
| *Planothidium* sp.4 |  |  |  |  |  | 1.7 |  |
| *Poulinea* *lepidochelicola* Majewska, De Stefano & Van de Vijver\* | 63.9 | 35.5 | 63.7 | 56.0 | 74.8 | 72.7 | 4.1 |
| *Proschkinia* sp.1 |  |  |  |  |  |  | 0.3 |
| *Psammodictyon* cf. *panduriforme* (W.Gregory) D.G.Mann |  |  |  |  | 0.2 |  |  |
| *Pseudogomphonema* cf. *kamschaticum* (Grunow) Medlin |  |  | 3.9 |  |  | 1.0 | 1.0 |
| *Rhoicosphenia* *marina* (Kützing) M.Schmidt |  |  | 0.2 |  |  |  |  |
| *Stauroneis* sp.1 |  |  |  |  | 0.2 |  |  |
| *Surirella* *librile* (Ehrenberg) Ehrenberg |  |  | 0.2 |  |  |  |  |
| *Surirella* cf. *angusta* |  |  | 0.2 |  |  |  |  |
| *Surirella* cf. *minuta* |  |  | 0.2 |  |  |  |  |
| *Synedra* *commutata* Grunow |  |  | 0.5 |  |  |  |  |
| *Synedra* sp.1 |  |  |  |  |  |  | 0.7 |
| *Tabularia* sp.1 | 0.2 |  |  |  |  |  |  |
| *Tabularia* sp.2 |  |  |  | 0.3 |  |  |  |
| *Tabularia* sp.3 |  |  |  |  |  | 0.3 |  |
| **Taxa** | **HPM9** | **HPM69** | **HPM70** | **HPM25** | **HPM48** | **HPM33** | **HPM71** |
| *Tabularia* sp.4 |  |  |  |  |  | 0.3 |  |
| *Tursiocola* sp.1\* |  |  |  |  |  | 0.7 |  |
| **\*Presumably obligately epizoic diatom taxa** | **97.1** | **85.0** | **76.2** | **61.8** | **85.5** | **91.3** | **8.2** |