drawings for *Microtheca octoceras* (EC 787, http://download.naturkundemuseum-berlin.de/Ehrenberg/Ec%20Drawings/Ec%20 draw%20001-999/Ec%20draw%20700-799/ECdraw787.jpg) yields even more *Odontella*-like specimens, perhaps of another species altogether. Following Pritchard, the many plastids and long surface projections Ehrenberg illustrated suggest that his specimens would now be placed in *Trieres* (Ashworth & al., l.c.).

Ehrenberg's drawings to one side, searching for extant specimens of Microtheca octoceras has not been successful. In his 1838 description, Ehrenberg noted that "Sie ist nur im Ostseewasser des Hafens von Kiel beobachtet ... Im Ostseewasser bei Kiel" [only found in the Baltic Sea at Kiel harbour ... Baltic Sea near Kiel; our translation]. Ehrenberg's collection is mostly preserved as a series of micas, rather than glass slides, held in BHUPM. The unpublished hand-written catalogue for Ehrenberg's collection indicates folder K36 B7 as a possible source of specimens. That material is from Cuxhaven, Germany, some distance from Kiel harbour. The micas from Cuxhaven on folder K36 B7 have no annotations or labels, suggesting that Ehrenberg may not have examined this material. Another folder, K36 B8, also labelled Cuxhaven, has plenty of annotations; specifically, the label for mica strip 5 ("Cuxhaven 4") indicates that the specimen picked out with a red paper ring is "Microtheca". Examination of the unpublished drawings shows only one that refers to Cuxhaven, the others have no specific locality annotations. Nevertheless, inspection of the "Cuxhaven 4" mica yielded no appropriate specimens (D. Lazarus, pers. comm.) and, given that nearly all the remaining illustrations, published and unpublished, are taken from live material, it is highly likely that the water mounts Ehrenberg would have used to examine these specimens were never preserved (D. Lazarus, pers. comm.). It would seem, then, that no authentic specimens of *Microtheca octoceras* exist or are likely to be found. Yet it is possible to establish that *Microtheca octoceras* is a diatom and an *Odontella*-like species.

Microtheca octoceras is synonymous with an Odontella-like species, those that are now included in Trieres, most probably with Biddulphia mobiliensis (= Trieres mobiliensis), and thus would have priority for both the genus and species name. As there are no actual specimens of Microtheca octoceras, or any are there ever likely to be, it is virtually impossible to make a precise determination of Ehrenberg's specimens. Although there are published and unpublished drawings, because they are difficult to interpret only an epitype could be selected from alternative material, of which there is no obvious choice. Thus, it would seem wiser to reject the name Microtheca, which has virtually vanished, and also to reject the basionym of its type, Anuraea octoceras, as that threatens Trieres mobiliensis (= Biddulphia mobiliensis Grev., BM 2998, "Hong Kong Harbour", holotype), a name that is now in common use.

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(2563) Proposal to conserve the name *Lichen ferrugineus* (*Blastenia ferruginea*) with a conserved type (*Teloschistaceae*, lichenised *Ascomycota*)

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(2563) *Lichen ferrugineus* Huds., Fl. Angl.: 444. Jan–Jun 1762, nom. cons. prop.

Typus: France, Alpes-de-Haute-Provence, Gorges Du Verdon, SW-S from La Palud-sur-Verdon, alt. 850 m, 43.76294°N, 6.31700°E, 9 Mai 2015, *Frolov 966* (PRA; isotypi: BM, GZU, herb. Frolov), typ. cons. prop.

For over 150 years Hudson's epithet has been applied to a common and widely distributed member of *Teloschistaceae* with a grey thallus and dark red apothecia without a thalline margin. For most of that time it was known as *Caloplaca ferruginea*, and that name has appeared in dozens of publications, including several major Floras. *Caloplaca* is now being subdivided, and the species belongs in the recently resurrected *Blastenia* A. Massal. (in Flora 35: 573. 1852), a genus with over 20 species (Arup & al. in Nordic J. Bot. 31: 16–83. 2013). *Blastenia ferruginea* (Huds.) A. Massal. (l.c.: 574) was selected as type of *Blastenia* by Clements & Shear (Gen. Fungi: 323. 1931).

Hudson described his species as having red apothecia (tuberculis rufis) and a whitish, granular (leprosus albicans) thallus. The first

character fits the species usually known as *Blastenia ferruginea*. The second does not: *B. ferruginea* has a pale grey thallus but it is smooth, not granular.

Hudson's name has not been typified. He described the species from England but did not cite any collections. The remnants of his herbarium, now in LINN, do not include any lichens. The name must therefore be lectotypified on one of the two figures cited by Hudson: "Dill. musc. ... t. 18. f. 4. t. 55. f. 8.", i.e., plate 18, figure 4 and plate 55, figure 8 in Dillenius, Hist. Musc. 1. 1741.

Plate 18 figure 4 shows a single piece of bark with what can be interpreted as rounded apothecia. The material from which the figure is said to have been prepared still exists in OXF. That material now includes three pieces of bark, and the piece on the left appears to be from a different tree than the two on the right. The latter have the lichen *Arthonia cinnabarina*, and the orange patches on the thallus of that species do not match Hudson's description. The piece on the left has a lichen that does match Hudson's description, and is presumably the material from which Dillenius's figure was prepared.

The material has an annotation slip by P.W. James, dated

November 1961. James determined the material as "Bilimbia luteola" and noted that ascospores are 7-septate and about 50 µm long. This can only refer to the material on the left piece of bark. "Bilimbia luteola" is an unpublished name for Bacidia luteola (Ach.) Mudd, now Bacidia rubella (Hoffm.) A. Massal. That species has red apothecia and a granular thallus, and fits Hudson's description. Blastenia ferruginea in the usual sense has very different ascospores.

Plate 55 figure 8 shows a moss on a piece of bark. The bark has rounded patches that can be interpreted as apothecia of a lichen. Unfortunately the corresponding material in OXF now has only the moss. It must have been separated from the bark, which is now missing. No lichen is present overgrowing the moss itself. However, we presume that the bark also had *Bacidia rubella*. We have no reason to doubt Dillenius's claim that the same lichen was present in both cases. Although *Bacidia rubella* and *Blastenia ferruginea* both have reddish apothecia, they cannot be confused when compared side by side.

Lichens in the Dillenian herbarium were studied by Crombie, who reported his findings in J. Linn. Soc., Bot. 17: 553–581. 1880. He evidently made only external observations, as he did not report any measurements of, e.g., ascospores made from thin sections. Crombie did not mention plate 55 figure 8, so probably the bark had been lost even then. He determined the material for plate 18 figure 4 as "Lecanora ferruginea (Huds.)", i.e., Blastenia ferruginea, and "Arthonia cinnabarina var. kermesina (Schaer.)", a synonym of A. cinnabarina. Crombie's determination of Lecanora ferruginea is inconsistent with James's determination of the same material as Bacidia rubella, and we believe that James was correct, not Crombie. We suspect that Crombie merely recorded what he was expecting to find, after what could only have been superficial study.

Crombie remarked that "Of these [the two lichens in t. 18. fig. 4] the [Lecanora ferruginea] has been correctly determined, except by Fries, who referred it to Biatora vernalis ..." The epithet vernalis was often misapplied in the first half of the 19th century to Bacidia rubella, and Fries was closer to the truth than Crombie realised. See Fries, Lichenogr. Eur. Reform. 260–261. 1831, where, under Biatora vernalis α item a. luteola, he cites Dillenius's figure, whereas item b. conglomerata is Biatora vernalis in today's sense. See also Smith

& Sowerby (Engl. Bot.: t. 845. 1801), where the description of *Lichen vernalis* is in fact of *Bacidia rubella*, and *Verrucaria rubella* is cited in synonymy. Smith knew that there was a problem with Hudson's epithet, and he repeated his concern later (Engl. Bot.: t. 1650. 1806).

In summary, the name *Lichen ferrugineus* must be lectotypified on one of two Dillenian illustrations. One of them was certainly prepared from material of *Bacidia rubella*, not the species to which Hudson's epithet has long been applied. The other was almost certainly prepared from *Bacidia rubella* too, although that cannot be proven as the relevant piece of bark was lost over a century ago.

We could lectotypify the name on the latter figure, and designate an epitype that matches the usual usage, as it would be difficult to *prove* that Dillenius's missing collection was not *Blastenia ferruginea* in the usual sense. However, we feel that such a course of action would not be good practice in the light of the available evidence.

Conservation seems preferable. It will fix the application of the name *Blastenia ferruginea* in the sense in which the epithet has been used for over 150 years. It will also remove any threat to the name *Bacidia rubella* (Hoffm.) A. Massal., as Hoffmann's epithet has priority only from 1796.

The proposed conserved type is an ample recent collection, in good condition, with the normal phenotype, from a region where the species is common, and we have DNA data from it. (Our only two modern collections from southern England have few apothecia, and neither would be a good choice as type.)

If this proposal is not accepted, we will have to lectotypify the name on an illustration that is known to represent a species other than that to which the name has long been applied.

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(2564) Proposal to conserve the name *Polystichum omeiense* against *P. caruifolium (Dryopteridaceae)*

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(2564) *Polystichum omeiense* C. Chr., Index Filic.: 67. 1 Jul 1905, nom. cons. prop.

Typus: China, Sichuan, Mt. Omei [Emei], Faber 1027 (K barcode K001040166!; isotypi: MO No. 1866696 (barcode

MO-255603)!, NY barcode 00128113!).

(\(\equiv \) Polystichum caruifolium Diels in Bot. Jahrb. Syst. 29: 194. 4 Sep 1900 ('carvifolium').