

143. Nitzschia rorida (sect. Panduriformes) x 3,400  
Valve, valve view; note sterna, band of loculate areolae, arrangement and form of fibulae.
144. Nitzschia sp. (sect. Panduriformes) x 3,400  
(Scilly material)  
Valve, valve view; note absence of sterna, arrangement of fibulae.
145. Idem. x 3,400
146. Nitzschia mollis var. africana (sect. Panduriformes)  
x 3,400  
Valve, valve view; note absence of sterna, arrangement of fibulae (contrast F.144-5).
147. Nitzschia sp. (sect. Panduriformes) (no scale)  
Cell, valve view; note chromatophore arrangement (?with 'round' pyrenoids).
148. Nitzschia debilis (sect. Tryblionella) x 1,770  
Cell, valve view; note chromatophore arrangement, especially the central lobing towards the nucleus.
149. Idem. x 1,770
150. Idem. x 1,770
151. Idem. x 1,770
152. Nitzschia debilis (sect. Tryblionella) x 1,770  
Cell, girdle view.

153. Nitzschia debilis (sect. Tryblionella) x 3,400  
Valve, valve view; note absence of 'Rippen',  
presence of a 'central nodule'.
154. Nitzschia debilis (sect. Tryblionella) x 3,400  
Valve, valve view; note faint 'Rippen'.
155. Idem. x 3,400
156. Idem. x 3,400
157. Nitzschia debilis (sect. Tryblionella) x 3,400  
Valve, valve view; form with strong 'Rippen'.
158. Idem. x 3,400
159. Nitzschia debilis (sect. Tryblionella) x 4,350  
Part of valve, valve view - faint 'Rippen' type;  
note striae, sterna, fibula morphology.
160. Nitzschia debilis (sect. Tryblionella) x 4,350  
Detail of valve in F.158; note striae, 'Rippen',  
fibula morphology, and 'central nodule'.

161. Nitzschia circumsuta (sect. Tryblionella)  
x 1,050

Valve, valve view.

162. Nitzschia circumsuta (sect. Tryblionella)  
x 3,400

Valve pole, valve view; note external polar raphe ending (arrow).

163. Nitzschia circumsuta (sect. Tryblionella)  
x 4,350

2 details of the valve face, showing the trans-apical rows of poroids; note the irregularly spaced 'gaps' in the rows.

164. Nitzschia circumsuta (sect. Tryblionella)  
x 3,400

Centre of valve, valve view; note 'striated' fibulae, wide central interspace, central raphe endings.

165. Nitzschia tryblionella (sect. Tryblionella)  
x 3,000  
Valve, valve view - half; note central constriction of subraphe canal, fibula morphology, striae (interrupted as in N. circumscuta, q.v.), and 'Rippen'.
166. Nitzschia tryblionella (sect. Tryblionella)  
x 1,380  
Cell, valve view - with two epiphytic Amphora ovalis var. pediculus.
167. Nitzschia levidensis (sect. Tryblionella)  
x 3,000  
Valve, valve view; note 'Rippen', fibula morphology.
168. Nitzschia apiculata (sect. Tryblionella)  
(no scale)  
Cell, valve view.
169. Nitzschia hungarica (sect. Tryblionella)  
(no scale)  
Cell, valve view.
170. Nitzschia hungarica (sect. Tryblionella)  
(no scale)  
Cell, girdle view.

171. Nitzschia acuminata (sect. Tryblionella) x 3,400  
Valve, valve view.
172. Nitzschia hungarica (sect. Tryblionella) x 3,400  
Valve, valve view.
173. Nitzschia hungarica (sect. Tryblionella) x 4,350  
Detail of valve, valve view; note inexact  
relationship of fibulae (stippled) to costae.
174. Nitzschia apiculata (sect. Tryblionella) x 3,400  
Valve, valve view.
175. Idem. x 3,400

In all, note the shape of the valve, the width of the axial sternum, the relationship of fibulae to costae, and the presence of 'central nodules'.

176. Nitzschia navicularis (sect. Tryblionella)  
x 3,400  
Valve, valve view; note prominent axial sternum,  
2 rows of poroids between adjacent costae, absence  
of a 'central nodule'.
177. Nitzschia navicularis (sect. Tryblionella)  
x 3,400  
Valve, valve view - part; note pores in axial  
sternum.
178. Nitzschia navicularis (sect. Tryblionella)  
x 3,400  
Proximal half of valve, valve view - foci showing  
fibulae and oval portulae (left), and surface  
morphology (right).
179. Nitzschia navicularis (sect. Tryblionella)  
x 1,150  
Cell, valve view; note prominent pyrenoid (p),  
and granularity of cytoplasm (shown in part).
180. Nitzschia navicularis (sect. Tryblionella)  
x 1,150  
Centre of cell, valve view - upper and lower foci,  
showing central margins of the chromatophore  
plates (see F.179, 181).
181. Nitzschia navicularis (sect. Tryblionella)  
x 1,150  
Cell, girdle view; note position of pyrenoid (p).
182. Nitzschia navicularis (sect. Tryblionella)  
x 1,150  
Cell, valve view.
183. Idem. x 1,150

533. Nitzschia sp. (sect. Panduriformes) x 60,000  
(Scilly material)  
Valve poroids; transapical axis 'vertical' in  
illustration.
534. Nitzschia mollis var. africana (sect. Panduriformes)  
x 60,000  
Valve poroids; transapical axis as in P.533.
535. Nitzschia debilis (sect. Tryblionella) x 60,000  
Valve poroids.
536. Nitzschia hungarica (sect. Tryblionella)  
x 60,000  
Valve poroids; note the three volae projecting  
into the lumen of each poroid.
537. Nitzschia dubia (sect. Dubiae) x 60,000  
Valve poroids.
538. Nitzschia subamphioxoides (sect. Dubiae)  
x 60,000  
Valve poroids.

714. Nitzschia sp. (sect. Panduriformes/Lanceolatae?)  
x 7,050  
Frustule.
715. Nitzschia sp. (sect. Panduriformes/Lanceolatae?)  
x 14,300  
Frustule - part; note form of central raphe  
endings (compare F.704).
716. Nitzschia mollis var. africana (sect. Panduriformes)  
(TEM) x ?  
Part of valve; note number of poroids per loculus.
717. Nitzschia tryblionella (sect. Tryblionella)  
x 730  
Valve; note undulate valve face.
718. Nitzschia tryblionella (sect. Tryblionella)  
x 3,100  
Valve, outside - centre; note marginal ridge  
(arrow).
719. Nitzschia tryblionella (sect. Tryblionella)  
x 2,600  
Valve - fracture section; note marginal ridge  
(arrow).



720. Nitzschia tryblionella (sect. Tryblionella)  
x 3,500

Valve - inside.

721. Nitzschia tryblionella (sect. Tryblionella)  
x 17,000

Valve, inside - part, showing subraphe structure;  
note that the striae continue across the  
fibulae.

722. Nitzschia tryblionella (sect. Tryblionella)  
x 15,000

Valve, outside - centre; note central raphe  
endings.

723. Nitzschia tryblionella (sect. Tryblionella)  
x 6,600

Valve pole - outside.

724. Nitzschia tryblionella (sect. Tryblionella)  
x 14,800

Fractured valve; note thickness of valve, size  
and spacing of poroids, rims around external  
apertures of poroids, fibula morphology (contrast  
F.721).

725. Nitzschia tryblionella (sect. Tryblionella)  
x 13,000

Valve, inside - part; note larger central inter-  
space.

726. Nitzschia debilis (sect. Tryblionella) x 6,250  
Valve - outside; note the axial sternum, and the marginal ridge (left).
727. Nitzschia debilis (sect. Tryblionella) x 27,300  
Valve, outside - centre; note deflected central raphe endings, poroids in subraphe canal wall.
728. Nitzschia debilis (sect. Tryblionella) x 6,750  
Valve - inside; note axial sternum (as) and lateral sternum (ls).
729. Nitzschia debilis (sect. Tryblionella) x 26,000  
Valve pole - outside (somewhat eroded specimen).
730. Nitzschia debilis (sect. Tryblionella) x 13,500  
Valve pole - inside; note that the striae continue across the fibulae.
731. Nitzschia levidensis (sect. Tryblionella)  
x 8,500  
Valve pole - outside; note 'Rippen' (and see F.726) and marginal ridge.

732. Nitzschia levidensis (sect. Tryblionella)  
x 2,950  
Valve.
733. Nitzschia hungarica (sect. Tryblionella)  
x 2,680  
Valve - outside (raphe to left)
734. Nitzschia hungarica (sect. Tryblionella)  
x 14,000  
Proximal mantle and inside - part; note rows of  
small warts on marginal strip.
735. Nitzschia hungarica (sect. Tryblionella)  
x 1,350  
Valve - inside; note axial sternum.
736. Nitzschia hungarica (sect. Tryblionella)  
x 14,300  
Valve pole - outside; note proximally directed  
curvature of raphe fissure at pole, warts on  
axial sternum, small marginal ridge.
737. Nitzschia hungarica (sect. Tryblionella)  
x 13,300  
Valve, outside - centre; note position of  
central raphe endings (arrow).

738. Nitzschia hungarica (sect. Tryblionella)  
x 14,000  
Valve pole - inside; note helictoglossa, relationship of fibulae to costae.
739. Nitzschia hungarica (sect. Tryblionella)  
x 12,100  
Valve, inside - central part; note raphe endings (near left), valve structure, relationship of fibulae to costae.
740. Nitzschia apiculata (sect. Tryblionella)  
x 14,500  
Valve, inside - part; contrast F.739.
741. Nitzschia hungarica (sect. Tryblionella)  
x 14,400  
Valve, outside - part of distal side; note marginal ridge, warts on distal mantle.
742. Nitzschia apiculata (sect. Tryblionella)  
x 15,500  
Valve pole - outside; note marginal ridge, warts on axial sternum, proximally directed terminal fissure (just visible).
743. Nitzschia apiculata (sect. Tryblionella)  
x 15,300  
Frustule - pole; distally directed terminal fissure visible on hypovalve (above).

744. Nitzschia acuminata (sect. Tryblionella)  
x 3,100  
Valve, inside - part; note broad axial sternum.
745. Nitzschia acuminata (sect. Tryblionella)  
x 16,300  
Valve pole - outside; note distally directed curvature of terminal fissure, ridges bordering raphe.
746. Nitzschia acuminata (sect. Tryblionella)  
x 7,900  
Valve, outside - part; note axial sternum and costae.
747. Nitzschia acuminata (sect. Tryblionella)  
x 16,200  
Valve pole - outside; note proximally directed curvature of terminal fissure.
748. Nitzschia acuminata (sect. Tryblionella)  
x 14,700  
Valve outside - centre; note ridges bordering raphe fissure, central raphe endings.
749. Nitzschia acuminata (sect. Tryblionella)  
x 15,900  
Valve outside - centre.

750. Nitzschia angustata (sect. Tryblionella) x 5,800  
Frustule; note marginal ridge.
751. Nitzschia angustata (sect. Tryblionella) x 6,350  
Theca - part of distal side; note depth of distal mantle, valve structure, band morphologies.
752. Nitzschia angustata (sect. Tryblionella) x 6,250  
Frustule - pole; 4 bands in both hypo- and epicingulum; open ends of 2<sup>nd</sup> and 4<sup>th</sup> bands.
753. Nitzschia angustata (sect. Tryblionella) x 6,200  
Other pole of frustule illustrated in F.752; open ends of 1<sup>st</sup> and 3<sup>rd</sup> bands.
754. Nitzschia angustata (sect. Tryblionella) x 12,500  
Theca - pole; note band morphologies, external polar raphe ending.
755. Nitzschia angustata (sect. Tryblionella) x 12,300  
Valve, outside - centre; note doubling of striae in walls of subraphe canal, ridges bordering raphe fissure, central raphe endings.