

138. Nitzschia panduriformis (sect. Panduriformes)  
(Grunow material) x 3,400  
Valve, valve view; note arrangement of puncta in decussate rows, axial sternum (as), form and spacing of fibulae, central constriction of valve.
139. Nitzschia panduriformis (sect. Panduriformes)  
(Scilly material) x 3,400  
Valve, valve view; compare with F.138. In particular, compare the parts of the valve face proximal to the axial sternum.
140. Nitzschia panduriformis (sect. Panduriformes)  
(Scilly material) x 6,100  
Detail of valve in F.139; focus at outer surface of valve (above) and mid-focus through valve (below), showing that the valve structure is loculate.
141. Nitzschia panduriformis (sect. Panduriformes)  
(Scilly material) x 6,100  
Detail of centre of valve in F.139; note apparent presence of several pores per loculus.
142. Nitzschia panduriformis (sect. Panduriformes)  
(Scilly material) x 6,100  
Detail of pole of valve in F.139.

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.

701. Nitzschia mollis var. africana (sect. Panduriformes)  
x 11,300  
Frustule - 'end-on view'; note slight asymmetry of  
cincture about the apical plane.
702. Nitzschia mollis var. africana (sect. Panduriformes)  
x 15,000  
Part of valve + 1<sup>st</sup> band; note 'fringe' on pars  
interior of band, round foramina of valve.
703. Nitzschia mollis var. africana (sect. Panduriformes)  
x 16,300  
Epicingulum - distal side; 5 bands visible.
704. Nitzschia mollis var. africana (sect. Panduriformes)  
x 33,000  
Valve, outside - centre; note ridges bordering  
raphe, central raphe endings, poroids in subraphe  
canal wall (arrows).
705. Nitzschia mollis var. africana (sect. Panduriformes)  
x 13,600  
Frustule - pole; 5 bands visible, open ends of  
bands 1, 3 and 5. Note also the proximally directed  
curvature of the terminal fissure on the  
hypo valve (top).
706. Nitzschia mollis var. africana (sect. Panduriformes)  
x 36,000  
Frustule - pole; note distally directed curvature  
of the terminal fissure.

707. Nitzschia mollis var. africana (sect. Panduriformes)  
x 7,100

Valve - outside; note change in foramen shape across valve, reflecting change in structure from loculate (distally - left) to laminar (right).

708. Nitzschia mollis var. africana (sect. Panduriformes)  
x 28,700

Valve, inside - part, showing subraphe structure; also, note the internal openings of the loculi - by groups of 2/3 poroids.

709. Nitzschia mollis var. africana (sect. Panduriformes)  
x 7,200

Valve - inside; note larger central interspace.

710. Nitzschia sp. (sect. Panduriformes) x 6,200  
(Scilly material)

Valve - inside; contrast fibula spacing with that shown in F.709.

711. Nitzschia sp. (sect. Panduriformes) x 12,300  
(Scilly material)

Valve pole - inside; note helictoglossa, arrangement of poroids in pairs.

712. Nitzschia mollis var. africana (sect. Panduriformes)  
x ?

(TEM) Part of valve; note small flaps extending in front of the poroids.

713. Nitzschia mollis var. africana (sect. Panduriformes)  
x 28,000

Fractured valve, showing loculate structure (inner surface of valve - above)

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).