

234. Nitzschia angularis (sect. Spathulatae) (no scale)
Cell, valve view; note Bütschli globules (arrows).
Note also how the plastid avoids the strip of
cytoplasm immediately under the raphe (which is
central in this species).
235. Nitzschia angularis (sect. Spathulatae) (no scale)
Cell, girdle view - upper and lower foci; note
that the plastid hardly extends onto the other
side of the girdle (right).
236. Nitzschia angularis (sect. Spathulatae) (no scale)
Cell, valve view (part) - upper and lower foci;
again note how the plastid avoids the raphe.
237. Nitzschia angularis (sect. Spathulatae) (no scale)
Form with multiple lobing under the raphe:
cell, girdle view.
238. Idem. (no scale)
239. Nitzschia angularis (sect. Spathulatae) x 3,000
Cell, oblique view - part, showing lobing under
the raphe.
240. Nitzschia angularis (sect. Spathulatae) (no scale)
Cell, oblique view - central part, showing relat-
ionship of indentations in chromatophore margin
to raphe system.
241. Nitzschia angularis (sect. Spathulatae) (no scale)
Cell, transapical section (half-way from centre
to pole) - chromatophore stippled.

242. Nitzschia angularis (sect. Spathulatae) x 4,350
Central part of valve, valve view; note the two longitudinal lines (arrows), and the fibula morphology.
243. Nitzschia angularis (sect. Spathulatae) x 4,350
Frustule, girdle view - pole; note helictoglossa (h), margin of external flap (arrow), bands with several transverse rows of poroids each.
244. Nitzschia spathulata (sect. Spathulatae)
x 4,350
Valve, oblique view - pole (above) and part; note spathulate expansion of valve at pole, longitudinal line (compare F.242).
245. Idem. x 4,350
246. Nitzschia spathulata (sect. Spathulatae)
x 4,350
Valve pole, girdle view; note margin of external flap (arrow), helictoglossa (h).

247. Nitzschia spathulata (sect. Spathulatae) x 3,000
 Frustule, girdle view; note the 'spathulate'
 poles.
248. Nitzschia spathulata (sect. Spathulatae) x 3,000
 Valve, valve view; note longitudinal lines par-
 allel to the raphe system (compare F.242).
249. Nitzschia spathulata (sect. Spathulatae) x 4,350
 Form with ± central raphe: part of valve, valve
 view; note longitudinal lines, fibula morphology.
250. Nitzschia spathulata (sect. Spathulatae) (no scale)
 Cell, girdle view; note shape of chromatophores.
251. Idem. (no scale)
252. Idem. (no scale)
253. Nitzschia dissipata (sect. Dissipatae) x 3,400
 Valve, valve view; note longitudinal line (sensu
 F.242).
Detail: x 4,350
 Note longitudinal line (arrow), striae.
254. Nitzschia dissipata (sect. Dissipatae) x 3,400
 Valve, valve view.
Detail: x 4,350
255. Nitzschia dissipata (sect. Dissipatae) x 3,000
 Cell, valve view.

539. Nitzschia sigma var. (sect. Nitzschia) x 60,000
Valve poroids.
540. Nitzschia linearis (sect. Lineares) x 60,000
Valve poroids.
541. Nitzschia spathulata (sect. Spathulatae) x 60,000
Valve poroids.
542. Nitzschia spathulata (sect. Spathulatae) x 60,000
Valve poroids; contrast F.541!
543. Nitzschia sigma (sect. Nitzschia) x 60,000
Valve poroid; note cribrum - contrast F.539.
544. Nitzschia ignorata (sect. Nitzschia) x 60,000
Valve poroids. The group of six poroids at the left is within the subraphe canal; the remainder belong to the valve face.

812. Nitzschia sp.A (Eilat) (sect. Spathulatae)
(TEM) x 3,750
Valve.
813. Nitzschia sp.A (Eilat) (sect. Spathulatae)
(TEM) x 15,000
Valve pole; note terminal fissure, and the two
arrangements of costae and frets.
814. Nitzschia dissipata (sect. Dissipatae) x 15,000
(TEM)
Broken valve - part; note external flap (margin
indicated by arrow).
815. Nitzschia spathulata (sect. Spathulatae)
x 13,000
Valve pole - outside; note line of small pores
near the raphe (bottom).
816. Nitzschia spathulata (sect. Spathulatae)
x 14,500
Frustule - pole; note external flaps. Also, note
that the raphe opens onto the top of the spath-
ulate expansion of the valve.
817. Nitzschia sp. (sect. Spathulatae) x 14,700
Broken valve - part; note external flap (arrow).

818. Nitzschia spathulata (sect. Spathulatae)
(first group) x 13,400
Valve, outside - part; note position of raphe
(arrow). Arrow-head indicates margin of external
flap.
819. Nitzschia spathulata (sect. Spathulatae)
x 14,200
Valve pole - inside.
820. Nitzschia spathulata (sect. Spathulatae)
(first group) x 24,800
Broken valve - part; note external flap (arrow),
fibula morphology.
821. Nitzschia spathulata (sect. Spathulatae)
x 14,600
Valve pole.
822. Nitzschia spathulata (sect. Spathulatae)
(first group) x 14,900
Valve, inside - part.
823. Nitzschia spathulata (sect. Spathulatae)
(first group) x 14,600
Valve, inside - part.

824. Nitzschia spathulata (sect. Spathulatae) x 6,800
Valve, outside - central part; note that the raphe (arrow) opens onto the crest of a ridge.
825. Nitzschia spathulata (sect. Spathulatae)
(second group) x 14,400
Broken valve - part; note perforate nature of subraphe canal wall (arrow)
826. Nitzschia spathulata (sect. Spathulatae) x 14,000
Broken valve - part; note external flap.
827. Nitzschia spathulata (sect. Spathulatae) x 6,900
Valve, inside - part; note that the raphe is almost central in this form.
828. Nitzschia spathulata (sect. Spathulatae)
(second group) x 12,300
Valve, inside - part; note fibula morphology.
829. Nitzschia spathulata (sect. Spathulatae) x 7,100
Valve pole.

830. Nitzschia spathulata (sect. Spathulatae)
(third group) x 6,700
Valve, inside - part.
831. Nitzschia spathulata (sect. Spathulatae)
(third group) x 13,100
Detail of valve illustrated in F.830; note
fibula morphology.
832. Nitzschia sigmoidea (sect. Nitzschia) x 7,100
Valve - part. Arrow indicates margin of the
external flap.
833. Nitzschia sigmoidea (sect. Nitzschia) x 7,200
Valve pole - inside; note helictoglossa, visib-
ility of poroids near pole.
834. Nitzschia sigmoidea (sect. Nitzschia) x 8,500
Valve pole - outside.
835. Nitzschia sigmoidea (sect. Nitzschia) x 14,200
Valve pole - outside; note terminal fissure
extending (almost?) to valve margin.