

256. Nitzschia recta (sect. Lineares) x 3,400
Frustule, girdle view; note absence of any central constriction, or of any central differentiation of the raphe system.
257. Nitzschia recta (sect. Lineares) x 3,400
Valve, valve view.
258. Nitzschia recta (sect. Lineares) x 4,350
Part of valve, valve view.
259. Nitzschia recta (sect. Lineares) x 4,350
Part of valve, valve view; note longitudinal line (arrow).
260. Nitzschia sublinearis (sect. Lineares) x 2,100
Valve, valve view.
261. Nitzschia sublinearis (sect. Lineares) x 3,400
Valve pole, valve view; note fibula morphology. The helictoglossa is just visible.
262. Nitzschia sublinearis (sect. Lineares) x 4,350
Part of valve, valve view; note irregular spacing of fibulae, the inexact relationship between fibulae and costae.

263. Nitzschia linearis (sect. Lineares) x 1,400
Valve, * in girdle view; note the central constriction of the subraphe canal.
264. Nitzschia linearis (sect. Lineares) x 3,400
Valve, * in girdle view - centre; note wider separation of the central fibulae, the 'central nodule'.
265. Nitzschia linearis (sect. Lineares) x 3,400
Valve, oblique view - centre; note central raphe endings, ridge joining the proximal fibula bases (right).
266. Nitzschia linearis (sect. Lineares) x 3,400
Valve, * in girdle view - pole.
267. Nitzschia linearis (sect. Lineares) x 3,400
Valve, valve view - pole; note helictoglossa.
268. Nitzschia linearis (sect. Lineares) x 4,350
Valve, oblique view - centre; note central expansion of the raphe-sternum.
269. Nitzschia linearis (sect. Lineares) x 3,400
Valve, girdle view - centre; note poroids.
270. Nitzschia linearis (sect. Lineares) x 3,400
Frustule, girdle view; note fibula morphology, relationship of fibulae to costae, perforate bands.
271. Nitzschia linearis (sect. Lineares) x 3,400
Theca, girdle view - pole; note flanges (fl) extending out from the raphe sternum, bands with one transverse row of poroids each.

272. Nitzschia linearis (sect. Lineares) x 1,400
Cell, girdle view.
273. Idem. x 1,400
274. Nitzschia linearis (sect. Lineares) x 2,100
Cell, girdle view - part; note the tiny Bütschli
globule, and the slightly elongated nucleus.
275. Nitzschia linearis (sect. Lineares) (no scale)
Nucleus, girdle view.
276. Nitzschia linearis (sect. Lineares) (no scale)
Cell, valve view - centre, showing the two
chromatophores lying against opposite sides of
the girdle.
277. Nitzschia linearis (sect. Lineares) x 3,400
Recently divided cell, girdle view - stained
with aceto-carmine: central part; note conical
shape of daughter nuclei, fairly intense staining.
278. Nitzschia linearis (sect. Lineares) x 3,400
Nucleus, girdle view - stained with aceto-
carmine; note fairly poor staining reaction, single
nucleolus.

279. Nitzschia vitrea (sect. Lineares) x 3,400
Valve, girdle view; note coarseness of structure, absence of any central constriction of the valve, absence of a 'central nodule', presence of flanges (fl) extending out from the raphe-sternum. Helictoglossae visible.
280. Nitzschia vitrea (sect. Lineares) x 3,400
Theca, girdle view - part; note apparent perforation of bands, shape of fibulae.
281. Nitzschia vitrea var.? salinarum (sect. Lineares)
x 4,350
Valve, valve view - part.
282. Nitzschia vitrea var.? salinarum (sect. Lineares)
x 3,400
Valve, girdle view.
283. Nitzschia vitrea var.? salinarum (sect. Lineares)
x 3,400
Valve, valve view.
284. Nitzschia vitrea var.? salinarum (sect. Lineares)
x 3,400
Frustule, girdle view.
285. Nitzschia vitrea var.? salinarum (sect. Lineares)
(no scale)
Cell, valve view.
286. Nitzschia vitrea var.? salinarum (sect. Lineares)
x 3,400
Nucleus, girdle view - stained with aceto-carmine; note granularity of nucleoplasm.
287. Idem. x 3,400
288. Nitzschia vitrea (sect. Lineares) x 3,400
Nucleus, girdle view; note heavy staining.

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.

886. Nitzschia recta (sect. Lineares) x 12,300
Valve, inside - part; note fibula morphology,
obviousness of frets near fibulae.
887. Nitzschia recta (sect. Lineares) x 12,300
Valve, inside - pole; note how slit into subraphe
canal narrows near pole (compare F.386).
888. Nitzschia recta (sect. Lineares) x 12,300
Valve, outside - part; note external flaps
(margin of one is indicated by arrow).
889. Nitzschia sublinearis (sect. Lineares) x 23,000
Valve, inside - part; note fibula morphology.
890. Nitzschia sublinearis (sect. Lineares) x 5,600
Valve, inside - part.
Also (bottom left), note incompletely silicified
valve.
891. Nitzschia sublinearis (sect. Lineares) x 23,200
Valve pole - inside; note helictoglossa, and
presence of poroids between this and the valve
margin.

892. Nitzschia linearis (sect. Lineares) x 2,800
Valve - inside.
893. Nitzschia linearis (sect. Lineares) x 15,800
Fracture section; note poroids in walls of
subraphe canal.
894. Nitzschia linearis (sect. Lineares) x 11,500
Valve, inside - centre; note raphe endings,
fibula morphology, larger central interspace.
895. Nitzschia linearis (sect. Lineares) x 11,600
Theca - pole; 5 bands visible.

N.B. numbering of bands is incorrect: '2' is the
pars interior of the 2nd band, '3' is the pars
exterior; '4' is the 3rd band, etc.
Note open ends of bands 1, 3 and 5.
896. Nitzschia linearis (sect. Lineares) x 14,000
Frustule - pole; note that the raphe opens onto
the crest of a ridge (arrow).
897. Nitzschia linearis (sect. Lineares) x 12,800
Theca - pole; note open end of band 2.

898. Nitzschia linearis (sect. Lineares) x 12,800
Valve, outside - centre; note very short inter-
raphe distance.
899. Nitzschia vitrea (sect. Lineares) x 15,800
Valve, inside - part.
900. Nitzschia vitrea (sect. Lineares) x 16,500
Valve pole - inside.
901. Nitzschia vitrea var. ?salinarum (sect. Lineares)
x 3,160
Valve - inside.
902. Nitzschia vitrea (sect. Lineares) x 6,700
Frustule - pole; 8 bands visible in epicingulum
(7 numbered): open ends of bands 2, 4, 6 (and 8?).
903. Nitzschia vitrea (sect. Lineares) x 6,100
Other pole of frustule illustrated in F.902;
again, 8 bands visible (7 numbered): open ends of
bands 1, 3, 5 and 7.
904. Nitzschia linearis (sect. Lineares) x 15,000
Band - part; note vermiform thickenings (see also
F.895), small 'teeth' on abvalvar margin (left),
line of pores near advalvar margin.