

506. Denticula thermalis x 4,350
Valve, valve view; note valve structure, with two rows of poroids between costae. Also, note portulae.
507. Denticula thermalis x 4,350
Valve, girdle view; note central constriction of valve, shape of fibulae in section.
508. Denticula thermalis x 4,350
1st band, 'valve view'; note projections on pars interior, open nature of band.
509. Denticula thermalis x 6,100
1st band, 'valve view' - detail.
510. Denticula tenuis x 3,000
Frustule, girdle view; note shape of fibulae in section.
511. Denticula tenuis x 3,000
Valve, valve view; note portulae.
512. Denticula elegans x 4,350
Frustule, girdle view; note shape of fibulae (f) in section. Note also how the 1st band (b) fits over the 'heads' of the fibulae.
513. Denticula elegans x 4,350
Valve, valve view; note portulae, poroids in the wall of the subaphe canal.

514. Amphiprora alata x 3,400
Valve, girdle view - half; note shape of valve,
presence of fibulae (arrows) at many levels.
515. Amphiprora alata x 6,100
Valve, valve view - centre; note central raphe
endings, fibulae.
516. Amphiprora alata (no scale)
Cell; note the two chromatophores, set at an
angle to one another.
517. Amphiprora alata (no scale)
Chromatophores; viewed from different angle than
F.516.
518. Rhopalodia musculus (no scale)
Cell, valve view - upper and lower foci, showing
extension of chromatophore onto both valve faces.
519. Rhopalodia musculus (no scale)
Cell, oblique view; note single chromatophore,
position of nucleus (dotted).
520. Rhopalodia musculus (no scale)
Cell, girdle view; note lobing of chromatophore
margin.

563. Nitzschia sp. (sect. Panduriformes or Lanceolatae:
see text section 4.6.6.1, and F.714-5) x 60,000
Valve poroids.
564. Nitzschia sp. (sect. Lanceolatae) x 60,000
Valve poroids.
565. Bacillaria sp. (Eilat) x 60,000
Valve poroids.
566. Bacillaria linkei x 60,000
Valve poroids.
567. Denticula tenuis (Cader Idris material) x 60,000
Valve poroids.
568. Denticula tenuis (Afon Araeth material) x 60,000
Valve poroids.

569. Epithemia sorex x 60,000
Areolae, with volate occlusions.
570. Rhopalodia musculus x 60,000
Areolae, with volate occlusions.
571. Gyrosigma sp. x 60,000
Loculate areolae, with hymena at inner surface
of valve, slits at outer surface.
572. Navicula mutica x 60,000
Areolae with hymena.
573. Pleurosigma angulatum x 60,000
Loculate areolae, similar to those of Gyrosigma;
note hymena.
574. Diploneis ovalis x 60,000
Part of valve, with hymen-like pore occlusions
and coarser structures.

998. Epithemia sorex x 3,200
Frustule - ventral side; note that the valve faces are not parallel.
999. Epithemia sorex x 14,300
First two bands (1st above)-pole; note how the pars interior of the 2nd band (arrow) extends beneath and beyond that of the 1st.
1000. Epithemia sorex x 7,200
Valve, outside - part; note central and polar raphe endings.
1001. Epithemia sorex x 14,900
Valve + first two bands - part, inside; note how bands fit around the valve costae (margin of 2nd band's pars interior is indicated by arrow).
1002. Epithemia sorex x 3,200
Frustule, dorsal side - pole; note that at least 2 of the abvalvar bands in the epicingulum are open.
1003. Epithemia sorex x 26,000
Valve pole - inside; note helictoglossa.

1004. Epithemia sorex x 8,200
Valve + first 2 bands - part, inside; note
portulae.
1005. Epithemia zebra x 14,300
Fractured valve: first 2 bands still attached;
note that the pars interior of the 2nd band
meets itself along the mid-line of the valve
(arrow).
1006. Epithemia zebra x 1,720
Frustule.
1007. Epithemia zebra x 13,400
Valve, inside - centre.
1008. Epithemia zebra x 8,600
Valve pole - outside.
1009. Epithemia zebra x 8,100
Valve, outside - centre (somewhat eroded specimen).

1010. Epithemia zebra x 15,000
Fractured valve: first 2 bands (numbered) still attached.
1011. Epithemia zebra x 12,700
Fractured valve - part; the break has occurred partly along the raphe (bottom left).
1012. Epithemia zebra x 14,600
Valve + first 2 bands: fracture; note the extension of the 2nd band's pars interior under the 1st's.
1013. Epithemia muelleri x 7,400
Valve, outside - centre.
1014. Epithemia muelleri x 7,400
Frustule - pole, part.
1015. Rhopalodia musculus x 15,300
Valve, outside - centre (dorsal side of valve to right).

1016. Rhopalodia musculus x 3,180
Frustule - ventral side.
1017. Rhopalodia musculus x 15,300
Valve, inside - part.
1018. Rhopalodia musculus x 2,850
Frustule - dorsal side.
1019. Rhopalodia musculus x 7,250
Frustule - dorsal side: pole; note perforate
nature of bands.
1020. Rhopalodia gibberula x 14,400
Valve, inside - part; compare with F.1017.
1021. Denticula tenuis x 6,000
(TEM)
Valve + 1st band - early stage in silicification;
note lack of fibulae.

1022. Denticula tenuis x 6,500
Valve - inside.
1023. Denticula tenuis x 26,000
Valve, inside - part; note portulae, poroids
within subraphe canal.
1024. Denticula tenuis x 13,300
Valve pole - outside; note distally directed
curvature of terminal fissure.
1025. Denticula tenuis x 11,500
Valve pole - outside; note proximally directed
curvature of terminal fissure.
1026. Denticula tenuis x 12,400
Forming valve; first stage in fibula deposition.
1027. Denticula tenuis x 21,750
Incompletely silicified valve - inside, part
(earlier stage than in F.1026); note initiation
of longitudinal ridge (arrows) at entrance to
subraphe canal.

1028. Denticula tenuis x 12,900
Valve + 1st row of bands: inside; note correspondence of pleats on pars interior to fibulae, single transverse row of poroids.
1029. Denticula elegans x 6,600
Frustule - pole; note that the bands labelled '1' and '2' are both open at this pole. At the other pole they were again open, i.e. half-bands are present.
1030. Denticula elegans x 6,450
Valve + 1st band, outside - part; note that the raphe is uninterrupted centrally.
1031. Denticula elegans x 13,400
Valve + both 1st half-bands, inside - part; note the knob-like expansion of the centre of each fibula (arrow: see also F.1032).
1032. Denticula elegans x 7,150
Valve + one of the 1st half-bands.
1033. Denticula elegans x 13,800
Valve pole - outside.