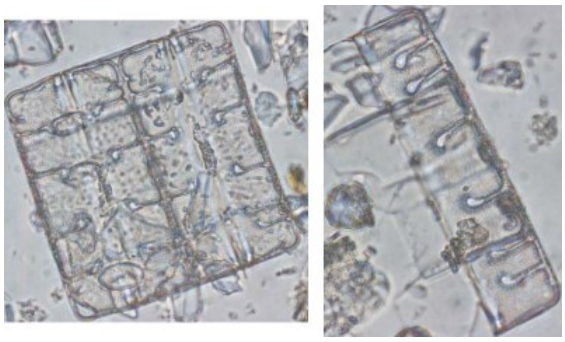
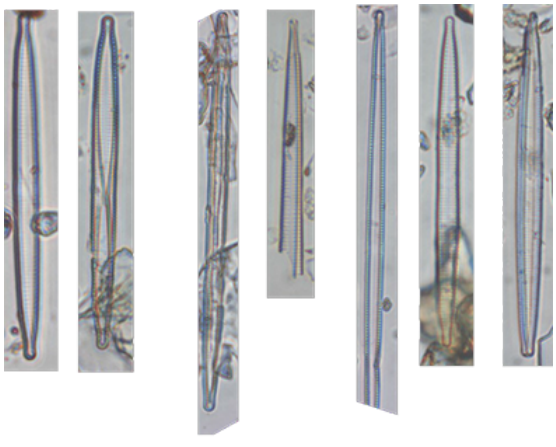
BioTIME
An ERC Funded Project

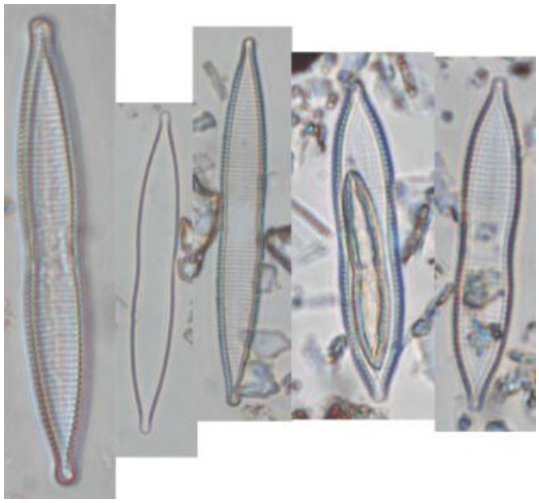
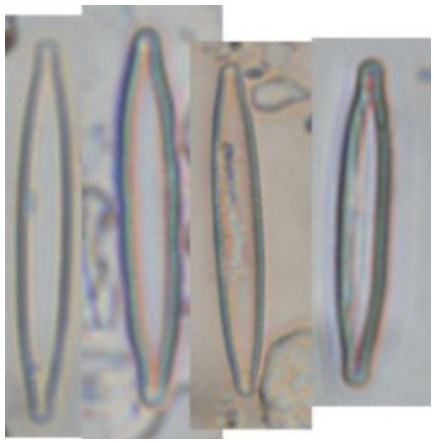
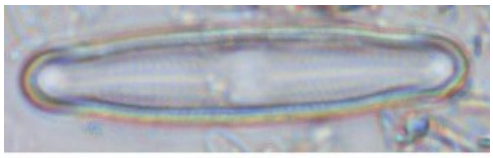
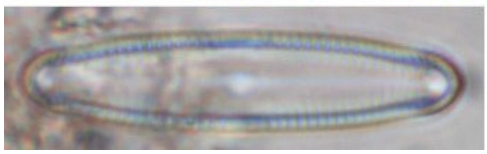
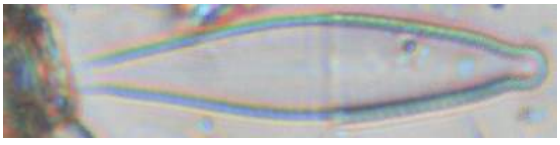
University of St Andrews | FOUNDED 1413

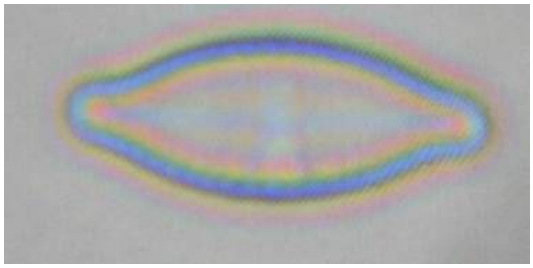
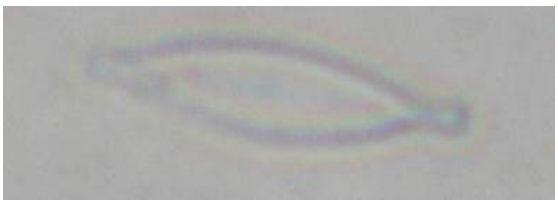
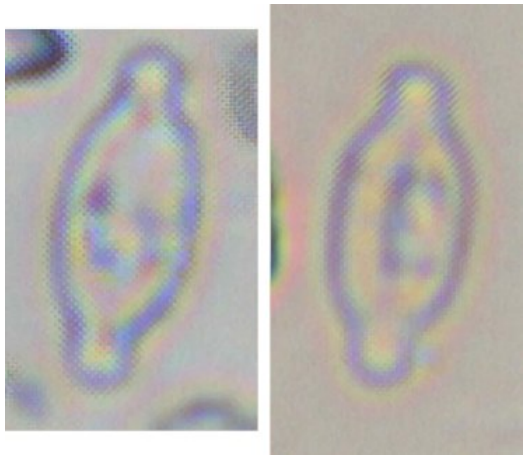
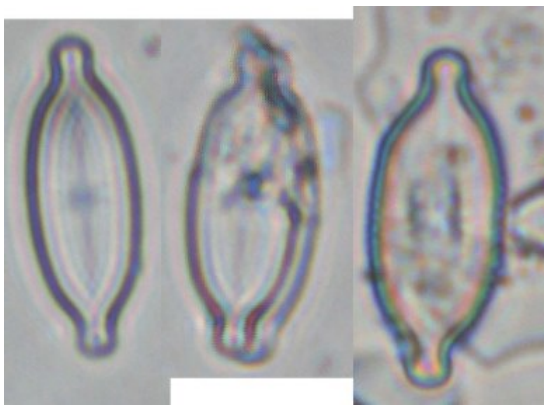


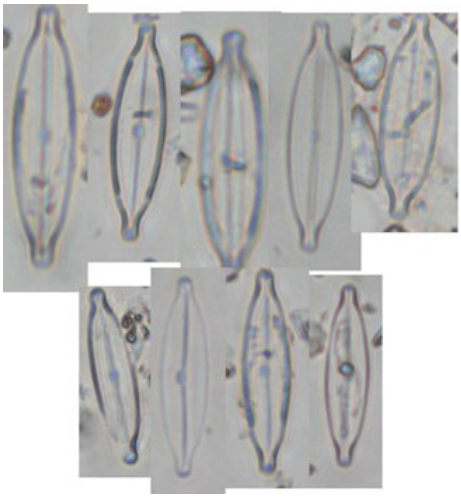
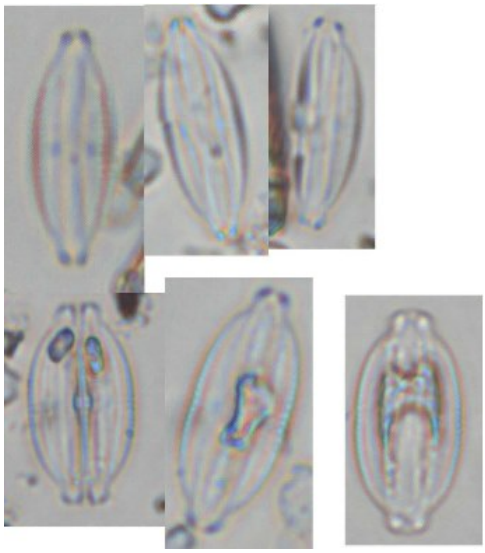
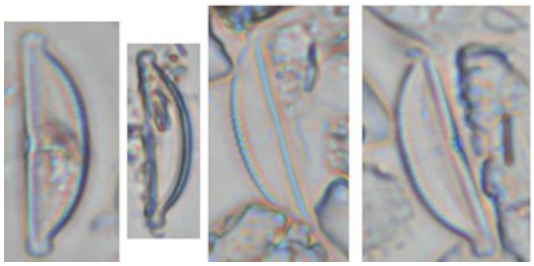
## The Diatoms of the Southern Slopes of the Northern Range

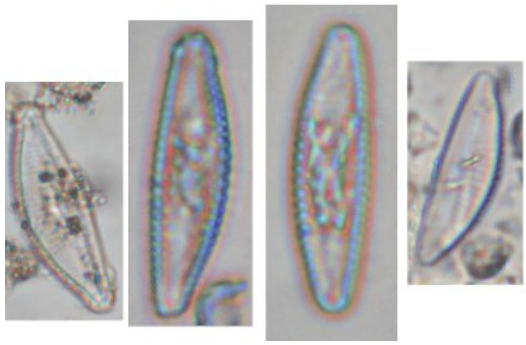
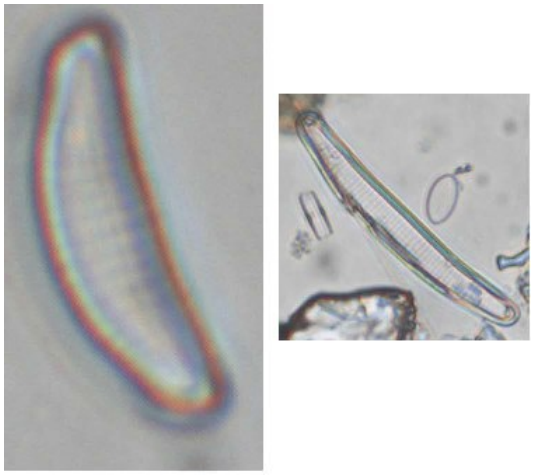
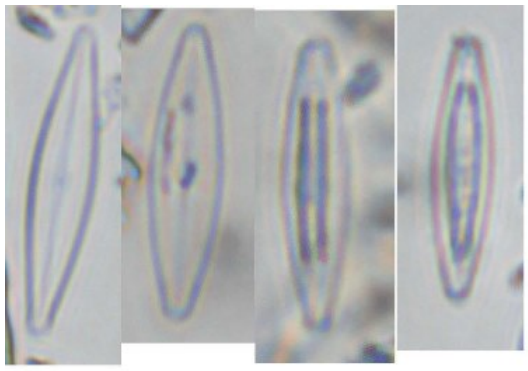
***By Dr. Amy E. Deacon***

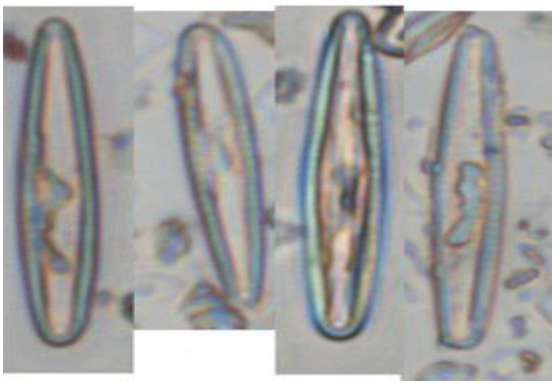
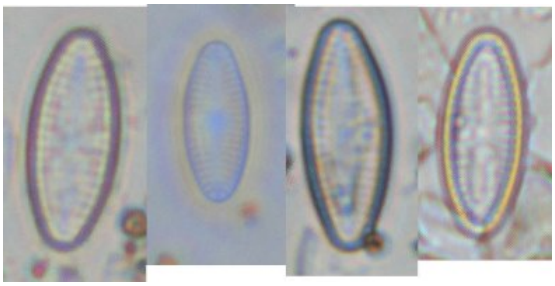
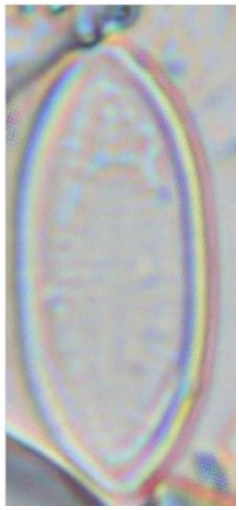
| Morphospecies | Suspected Species | Description | Image |
|---|---|---|---|
| **Morphospecies AM** | *Terpsinöe musica* | Square with 'musical crochet' pattern . Unmistakable. |  |
| **Morphospecies E** | Could be *Synedra ulna* | This group was initially split into two categories (E and F), dependent on length. Some individuals are extremely long (more than twice one field of view), but this variation appears to be continuous so it is impossible to confidently categorise them as two separate taxa.<br><br>They are acicular with rostrate ends. |  |

| | | | |
|---|---|---|---|
| **Morphospecies D** | Could be *Cymatopleura* sp. or *Surirella* sp. or *Nitzchia* | This group was initially split into two categories (D and DA) because some individuals are more squat than others. However, this variation appears to be continuous so it is impossible to confidently categorise them as two separate taxa.<br><br>They are panduriform and rostrate. |  |
| **Morphospecies C** | | They are narrowly lanceolate and slightly rostrate.<br><br>Much smaller than Morphospecies E. |  |
| **Morphospecies BJ** | | Long, elliptic, ends subcapitate. Striations visible. |  <br>  |
| **Morphospecies AG** | *Gomphonema gracile* | |  |

| | | |
|---|---|---|
| **Morphospecies AQ** | Elliptic, ends rostrate (now includes BU) |  |
| **Morphospecies CC** | Lanceolate. Ends capitate |  |
| **Morphospecies BV** | Elliptic, ends rostrate.<br>Very small. |  |
| **Morphospecies AP** | Elliptic, ends capitate |  |

| | | | |
|---|---|---|---|
| **Morphospecies A** | *Navicula rostellata* | (naviculoid form with raphe path visible, elliptical with rostrate ends) |  |
| **Morphospecies AE** | *Amphora* sp | Formerly split into Morphospecies AE and BR. |  |
| **Morphospecies BB** | | Semicircular. Ends capitate. |  |

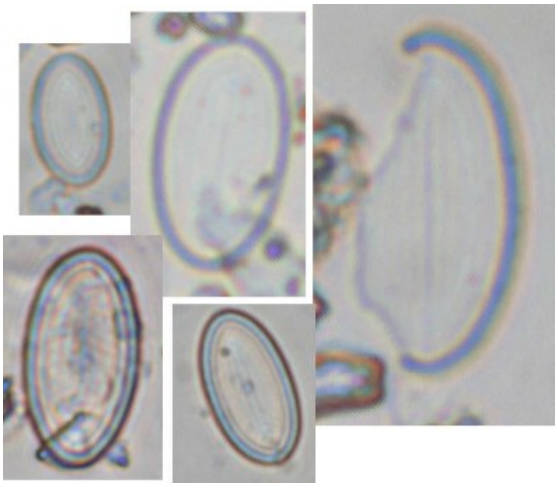
| | | | |
|---|---|---|---|
| **Morphospecies BD** | | Semilanceolate/semicircular. Ends rostrate. |  |
| **Morphospecies BK** | | Crescentic. Ends rostrate. |  |
| **Morphospecies CI** | | Crescentic, ends capitate. |  |
| **Morphospecies L** | *Neidium* sp | Lanceolate/slightly rhombical<br><br>Internal structures visible |  |

| | | | |
|---|---|---|---|
| **Morphospecies N** | | Hastate. Pore and striations sometimes visible<br><br>Combined with Morphospecies BO in the very conservative list |  |
| **Morphospecies H** | Could be *Planothidium robustus* | Broadly lanceolate, striations visible. Similar to J but shorter. |  |
| **Morphospecies BT** | | Very broadly lanceolate. |   |

**Morphospecies G**

One of the most abundant species found in our samples.

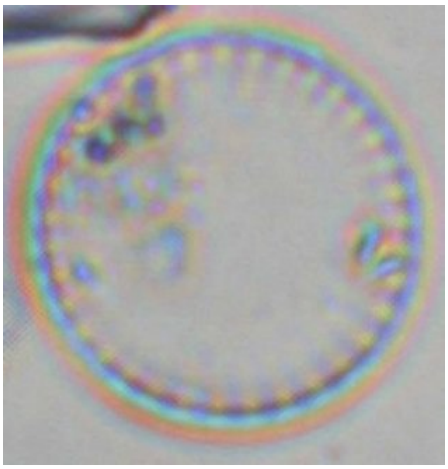
Elliptic.



---

**Morphospecies CB**

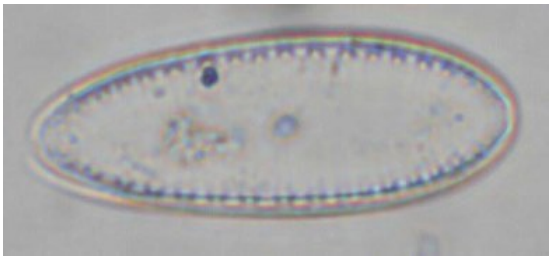
Circular, rim striate



---

**Morphospecies AV**

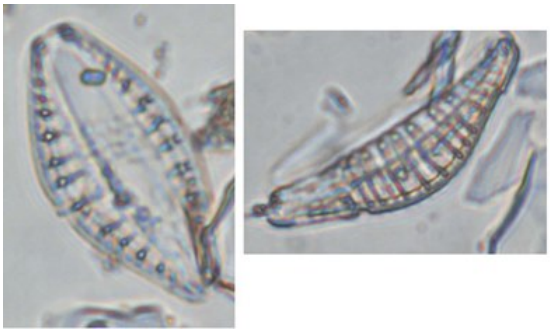
Ovate, rim punctate. Large.



---

**Morphospecies AH**

*Cymbella* sp



---

| | | | |
|---|---|---|---|
| **Morphospecies AL** | *Gyrosigma* sp | Sigmoid |  |

## Bibliography

**"Barber, H. G. & Haworth, E. Y. (1981). A Guide to the Morphology of The Diatom Frustule: with a key to the British freshwater genera: Freshwater Biological Association. Pages 21-27."**