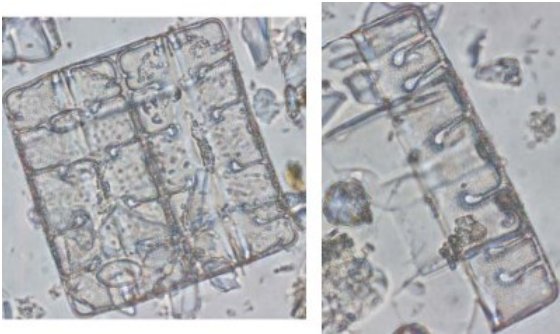
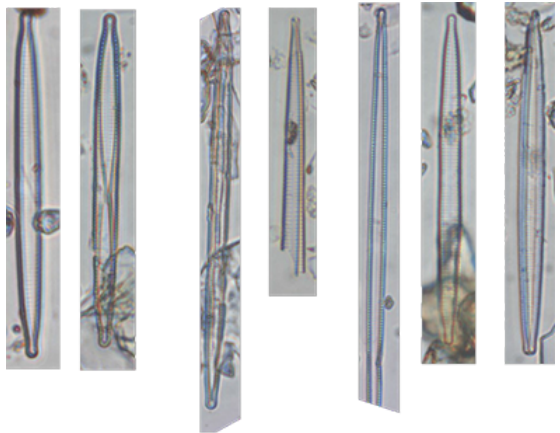
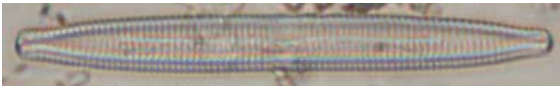


The Diatoms of the Southern Slopes of the Northern Range

By Dr. Amy E. Deacon

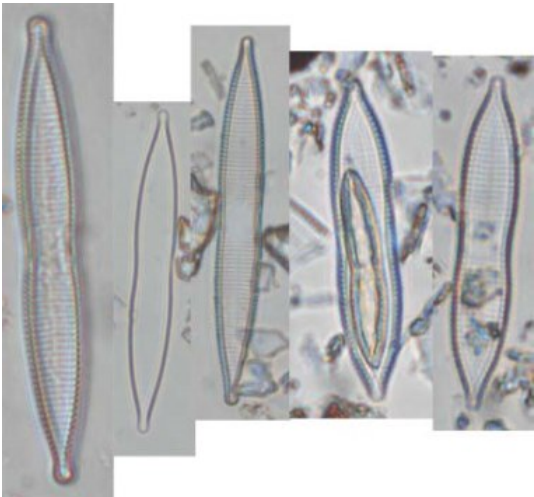
Morphospecies	Suspected Species	Description	Image
Morphospecies AM	<i>Terpsinoë musica</i>	Square with 'musical crochet' pattern . Unmistakable.	
Morphospecies E	Could be <i>Synedra ulna</i>	<p>This group was initially split into two categories (E and F), dependent on length. Some individuals are extremely 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.</p> <p>They are acicular with rostrate ends.</p>	
Morphospecies BN	Could be <i>Synedra</i>	<p>They are acicular with rostrate ends. Shorter and fatter than E &amp; F, but combined into 'morphospecies E' on the very conservative list.</p>	

Morphospecies  
D

Could be  
*Cymatopleura*  
sp. or  
*Surirella* sp.  
or *Nitzschia*

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.

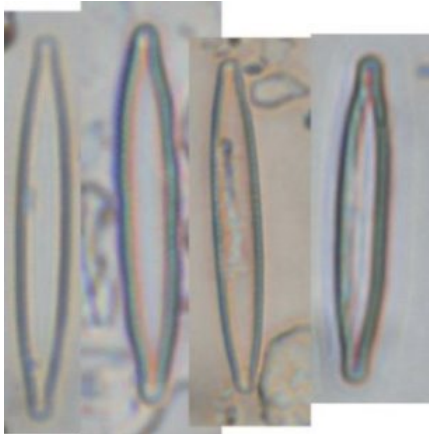
They are panduriform and rostrate.



Morphospecies  
C

They are narrowly lanceolate and slightly rostrate.

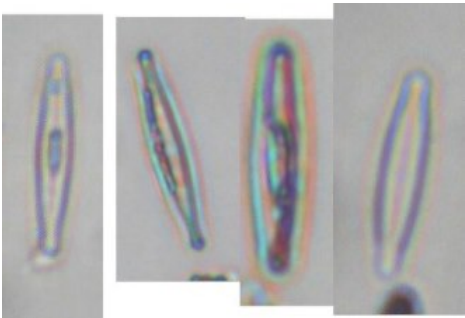
Much smaller than Morphospecies E.



Morphospecies  
AW

They are narrowly lanceolate and slightly rostrate.

Much smaller than Morphospecies C but combined with this species on the very conservative list.

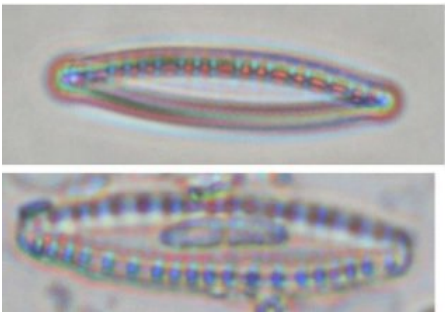


Morphospecies  
K

*Planothidium lanceolatum*

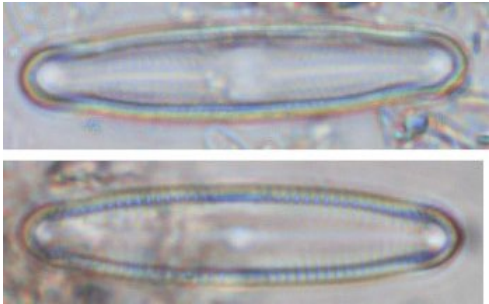
Lanceolate, broadly rostrate. Has visible patterns along the edges.

Combined with Morphospecies C on the very conservative list.



Morphospecies  
BJ

Long, elliptic, ends subcapitate. Striations visible.

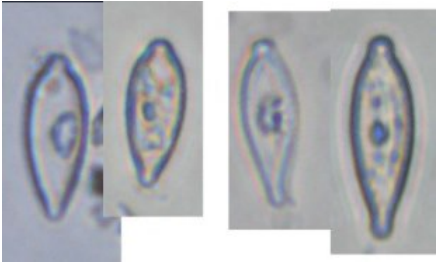


Morphospecies  
AR

*Gomphonema parvulum*

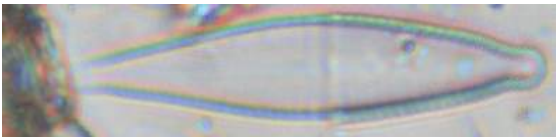
Spatulate with rostrate ends

Combined with Morphospecies AG in the very conservative list.



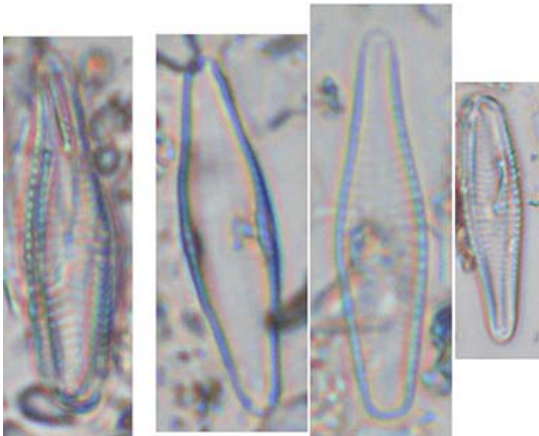
Morphospecies  
AG

*Gomphonema gracile*



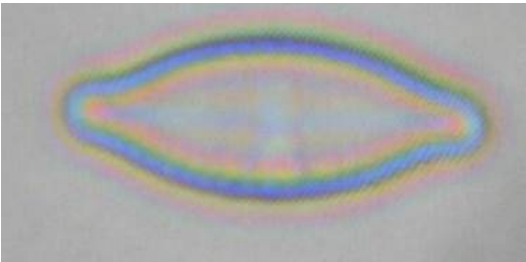
Morphospecies  
BG

Combined with Morphospecies AG in the very conservative list.



Morphospecies  
AQ

Elliptic, ends rostrate (now includes BU)



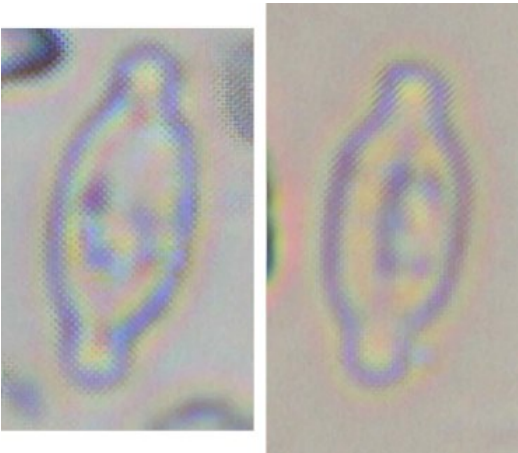
Morphospecies  
CC

Lanceolate. Ends capitate



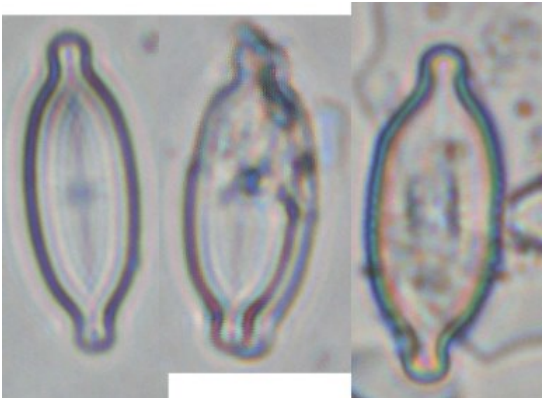
Morphospecies  
BV

Elliptic, ends rostrate.  
Very small.



Morphospecies  
AP

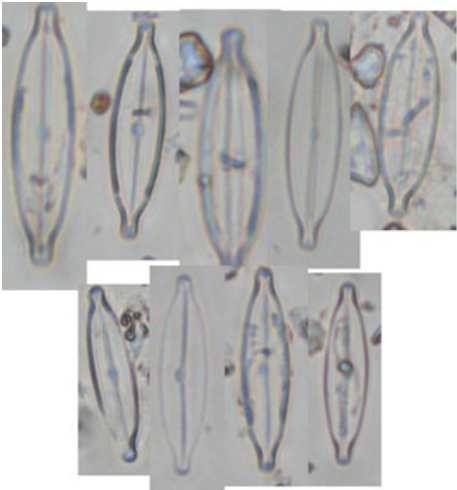
Elliptic, ends capitate



Morphospecies  
A

*Navicula  
rostellata*

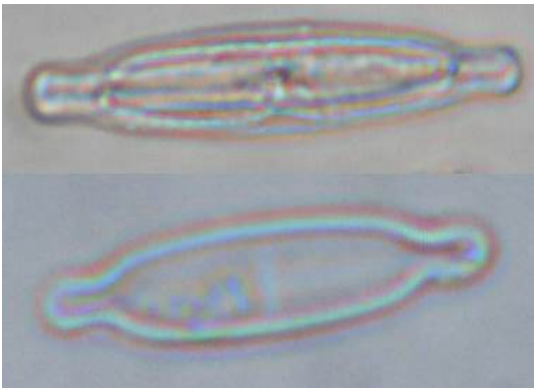
(naviculoid form with raphe  
path visible, elliptical with  
rostrate ends)



Morphospecies  
BX

Elliptic, ends capitate.

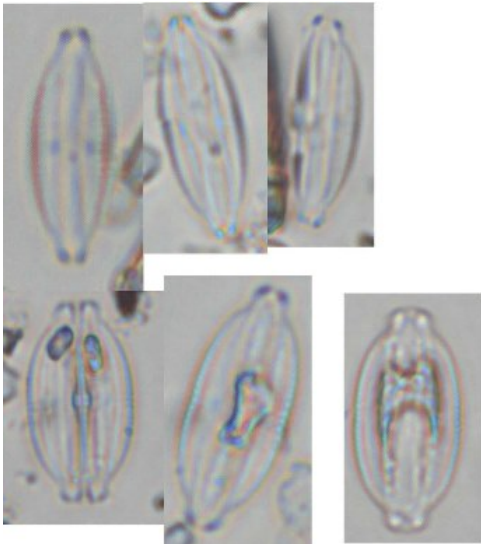
Combined with  
Morphospecies A on the  
very conservative list.



Morphospecies  
AE

*Amphora* sp

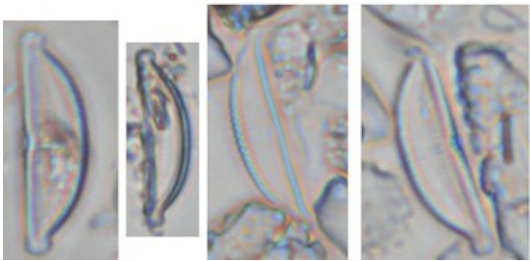
Formerly split into  
Morphospecies AE and BR.





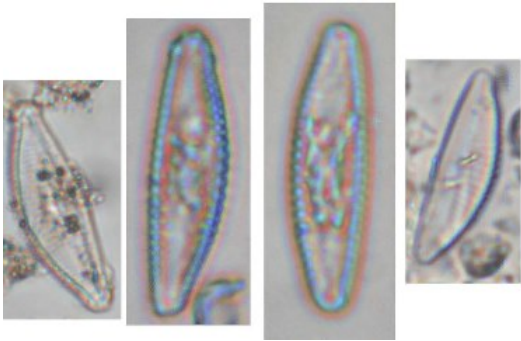
Morphospecies  
BB

Semicircular. Ends capitate.



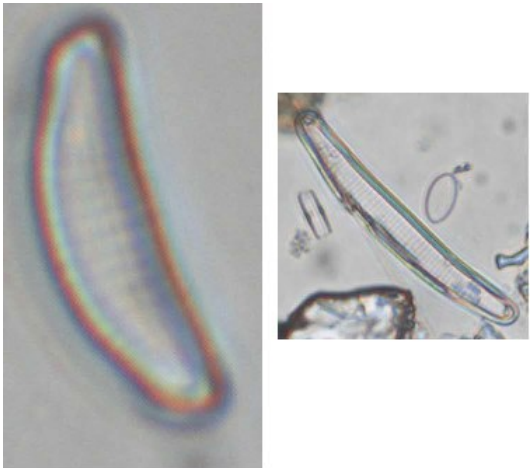
Morphospecies  
BD

Semilanceolate/semicircular.  
Ends rostrate.



Morphospecies  
BK

Crescentic. Ends rostrate.



Morphospecies  
CI

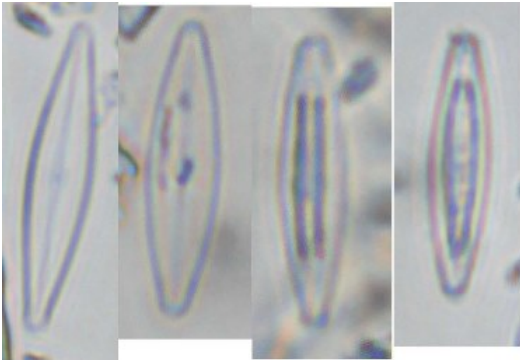
Crescentic, ends capitate.



Morphospecies  
L

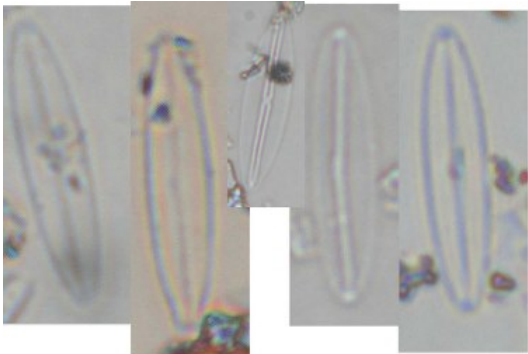
*Neidium* sp

Lanceolate/slightly  
rhombical  
  
Internal structures visible



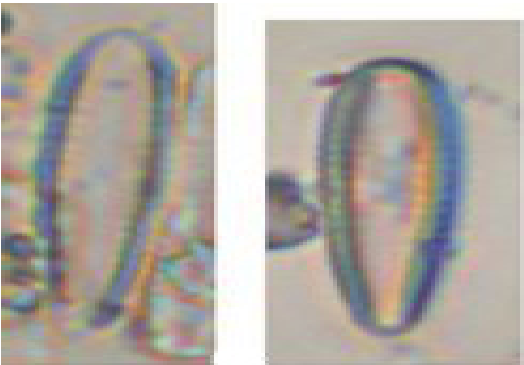
Morphospecies  
M

Elliptic  
Raphe visible  
  
Combined with  
Morphospecies L in the very  
conservative list.



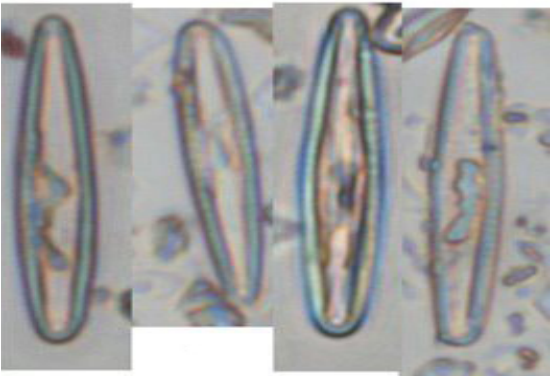
Morphospecies  
BO

Clavate. Pore and striations  
sometimes visible  
  
Combined with  
Morphospecies N in the very  
conservative list



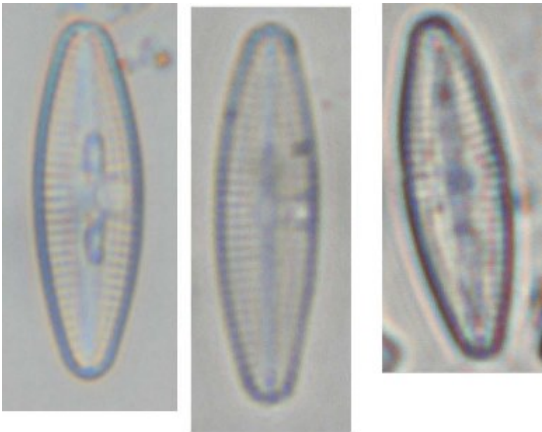
Morphospecies  
N

Hastate. Pore and striations  
sometimes visible  
  
Combined with  
Morphospecies BO in the  
very conservative list



Morphospecies  
J

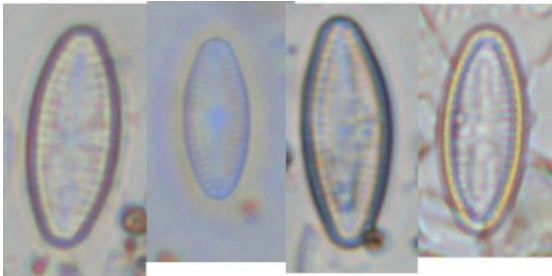
Lanceolate, striations visible. Like H but elongated. Combined with H in very conservative list.



Morphospecies  
H

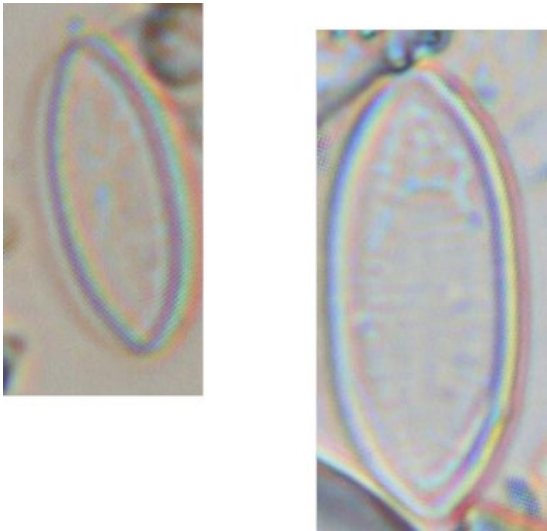
Could be  
*Planothidium robustus*

Broadly lanceolate, striations visible. Similar to J but shorter.



Morphospecies  
BT

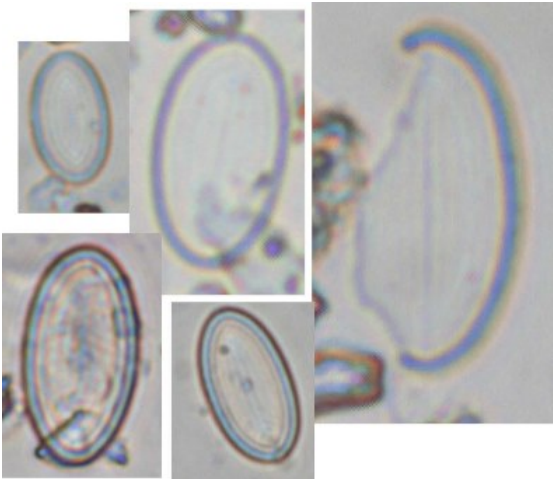
Very broadly lanceolate.





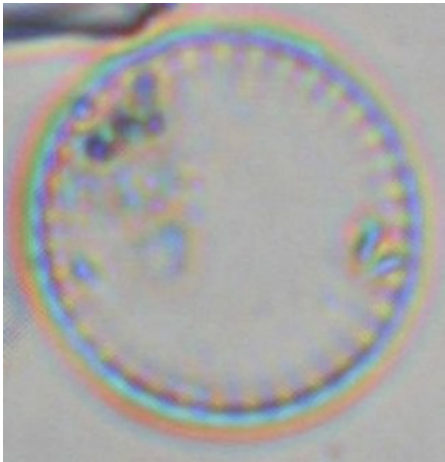
Morphospecies  
G

One of the most abundant  
species found in our  
samples.  
  
Elliptic.



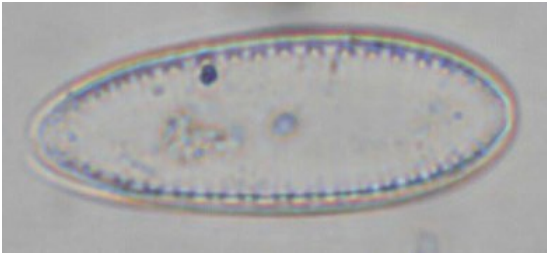
Morphospecies  
CB

Circular, rim striate



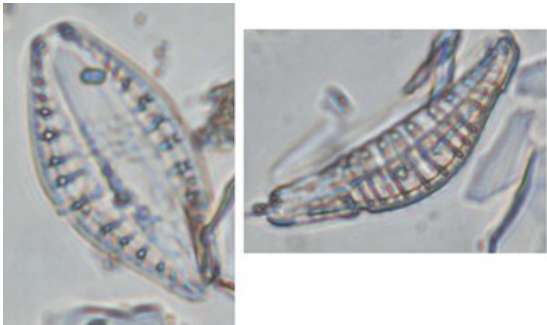
Morphospecies  
AV

Ovate, rim punctate. Large.

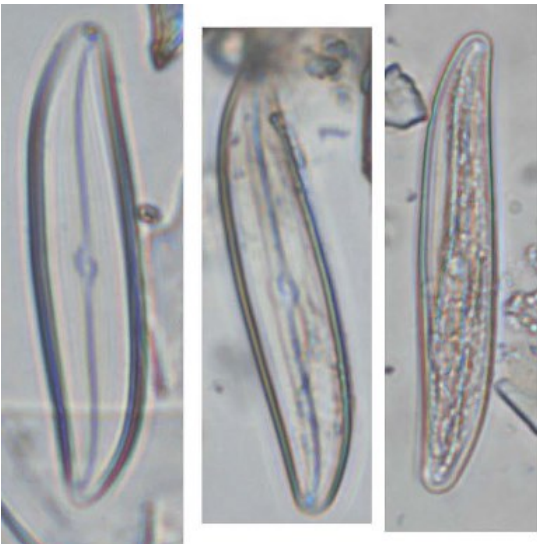


Morphospecies  
AH

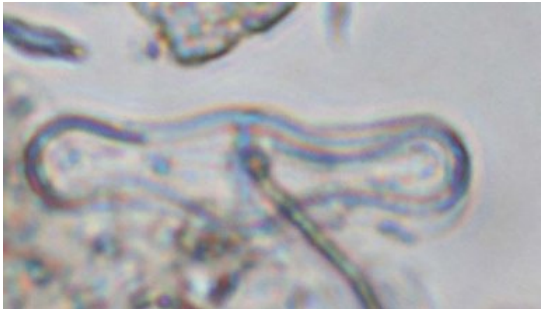
*Cymbella* sp



Morphospecies  
AL      *Gyrosigma* sp      Sigmoid



Morphospecies  
DB      Ends capitate  
NOT INCLUDED IN  
DIVERSITY– too much  
variation.



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."

