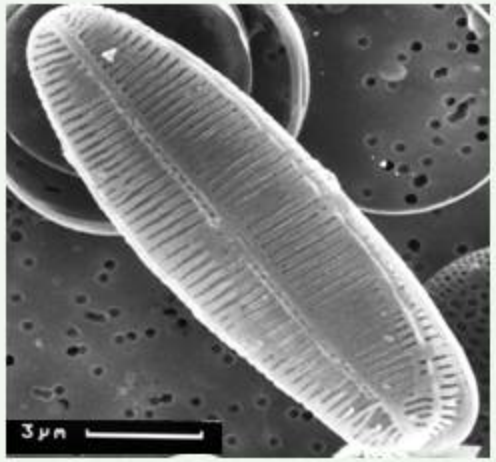
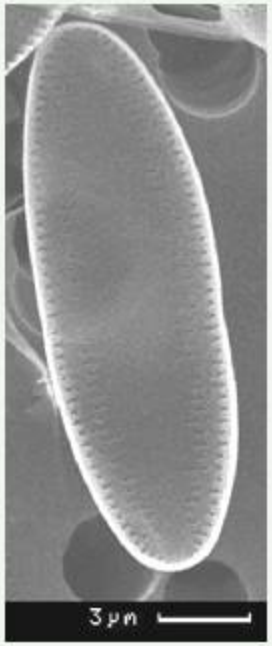
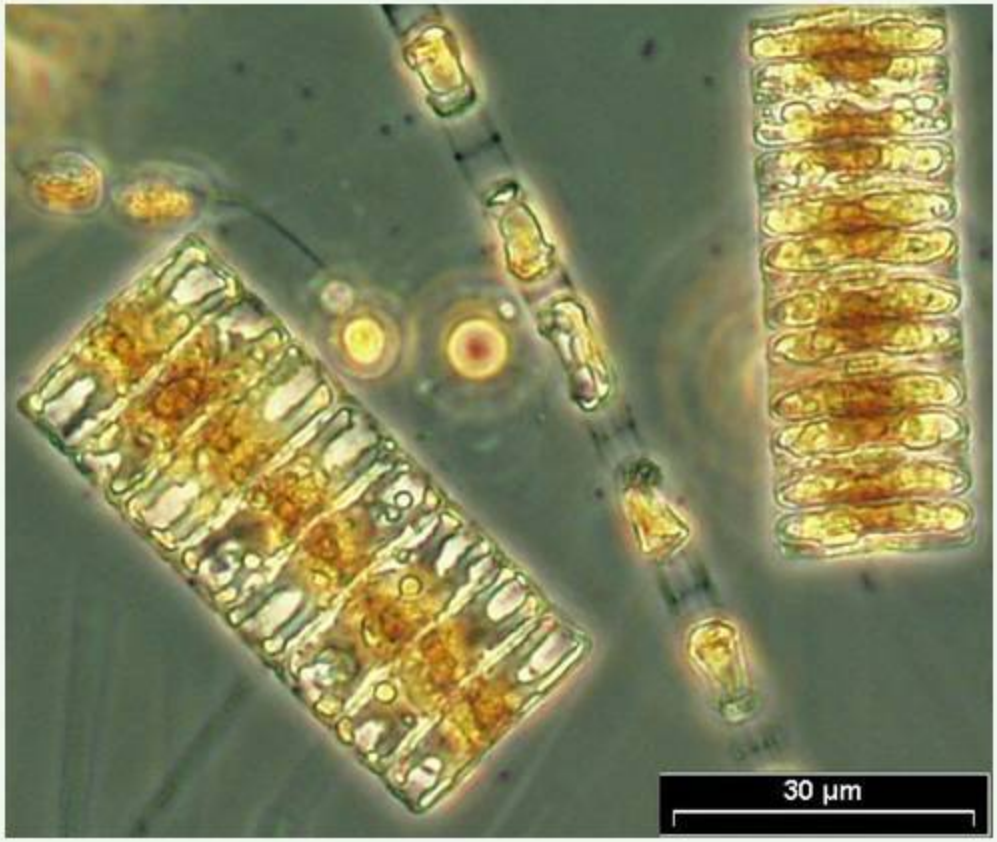
phytoplankton – bacillariophyceae

Achnantes taeniata

abundance: spring
life-form: in chains
apical axis: 10 - 40µm
transapical axis: 4 - 6µm





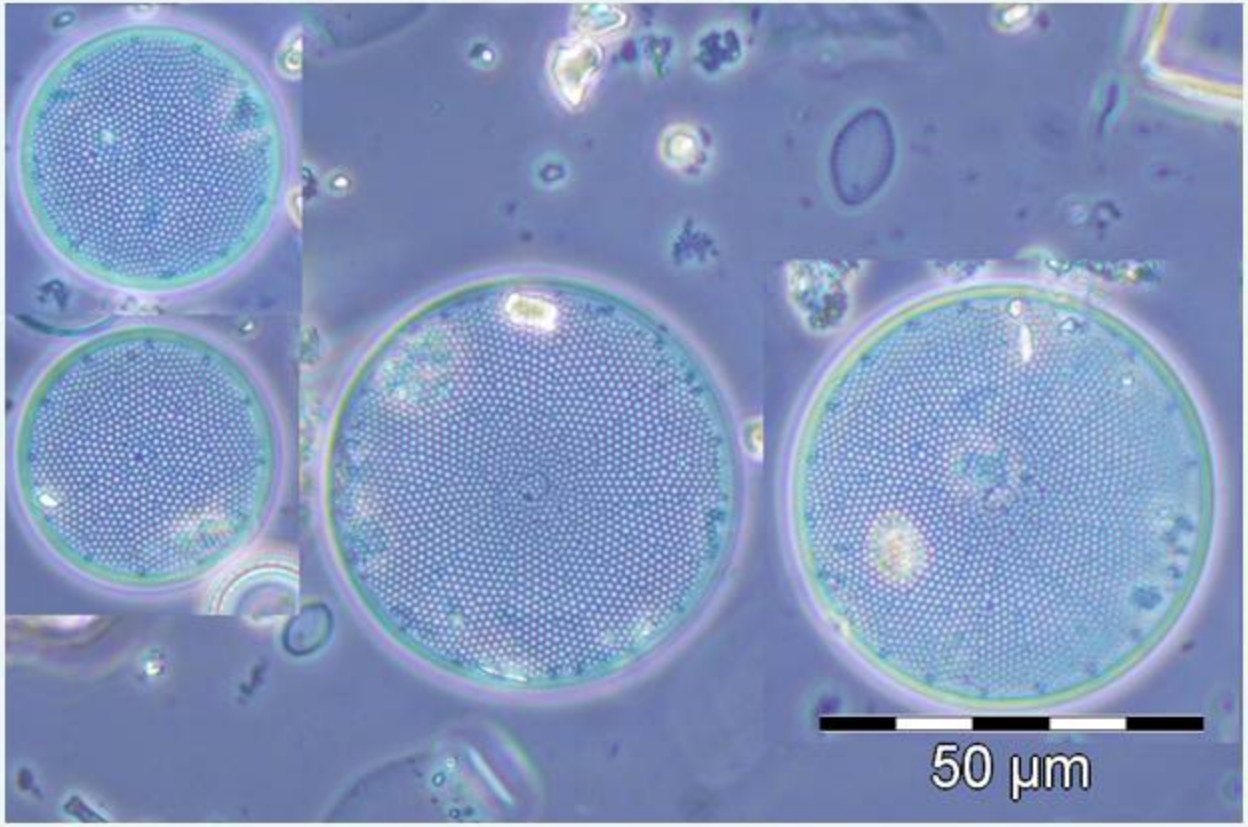


LM (Pomeranian Bight)

phytoplankton - bacillariophyceae

Actinocyclus curvatulus

abundance: autumn
life-form: solitary
diameter: 13-160µm

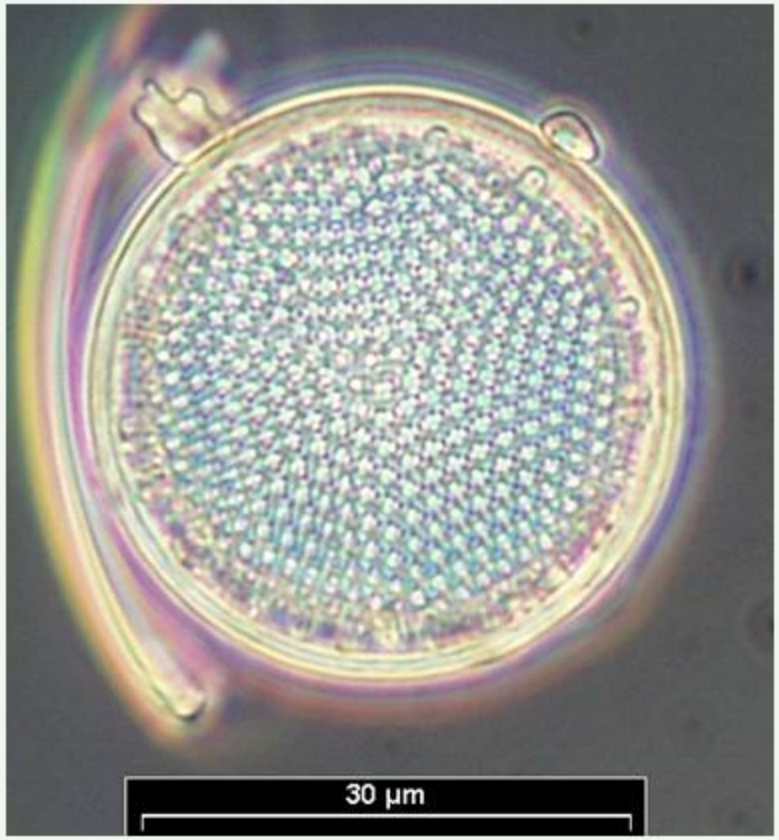


LM (North Sea, NGW8) cleaned material

phytoplankton - bacillariophyceae

Actinocyclus normanii fo. subsalsa

abundance: permanent abundant
life-form: solitary
size: 30 - 50µm

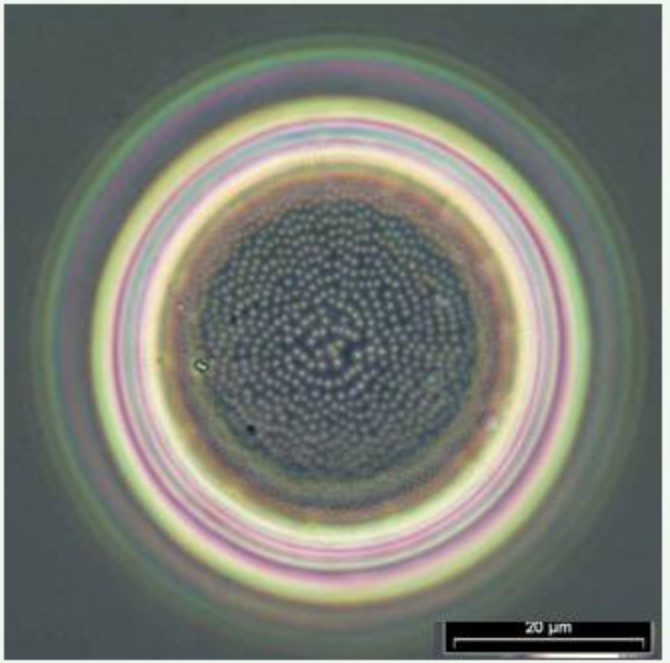


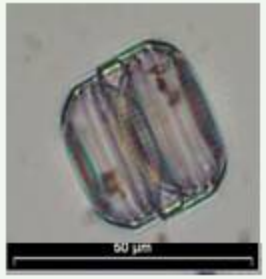
LM (Gotland Sea, sediment trap)

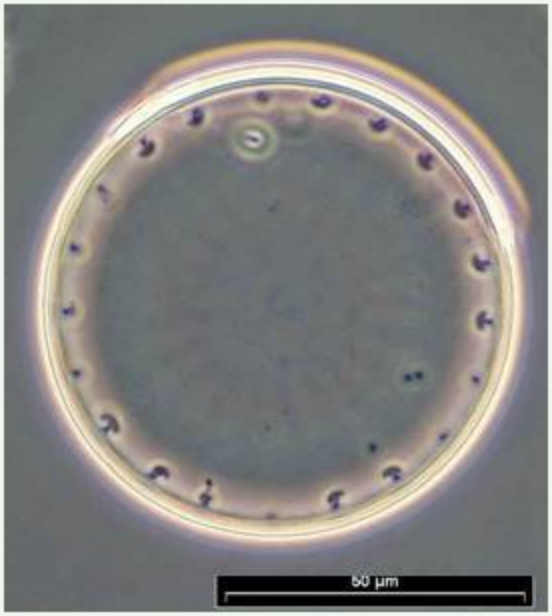
phytoplankton - bacillariophyceae

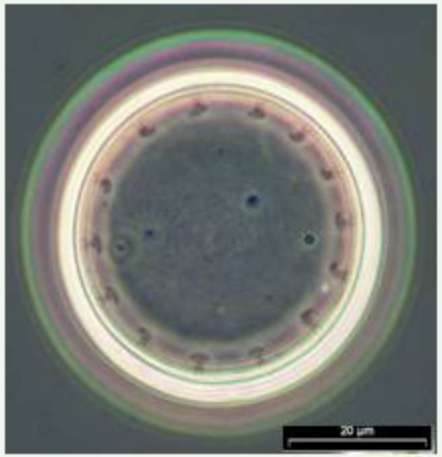
Actinocyclus octonarius

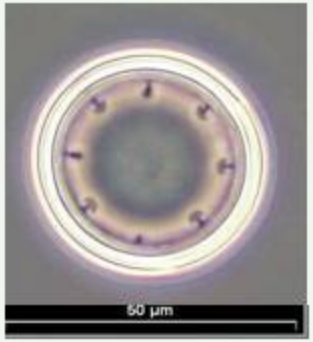
abundance: permanent abundant
life-form: solitary
size: 20 - 70µm

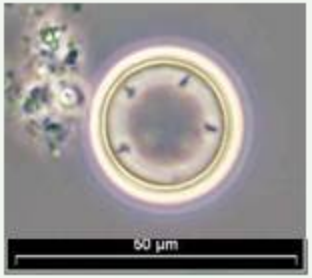












LM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Actinoptychus senarius

abundance: permanent abundant
life-form: solitary
diameter: 20 - 150µm

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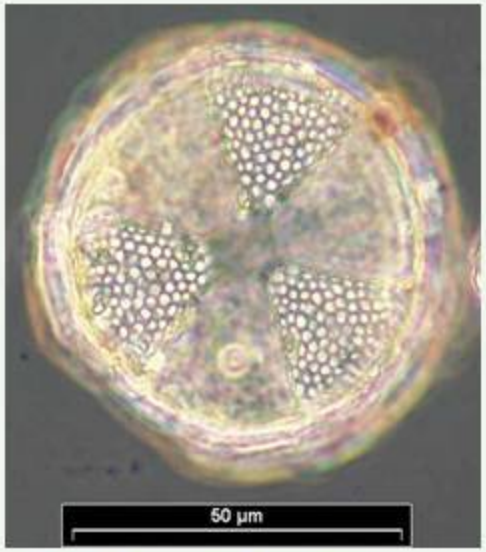
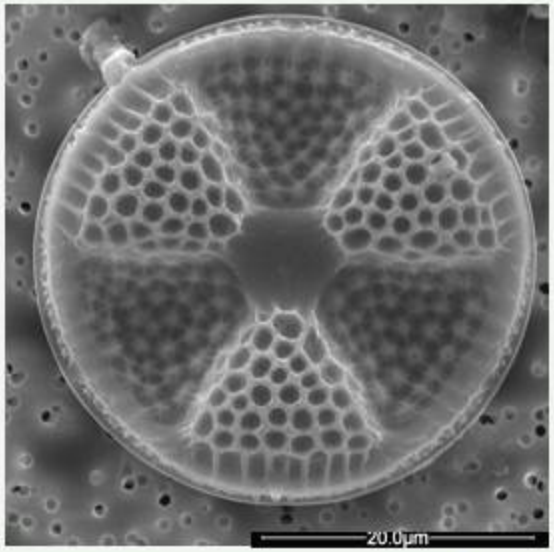
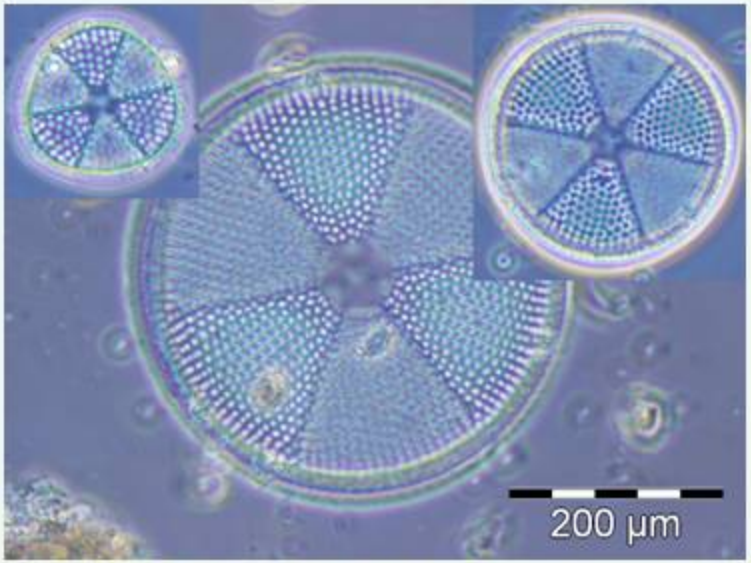
LM (North Sea, UFSDB)



LM (coastal station Heiligendamm)



REM (North Sea, URST3)

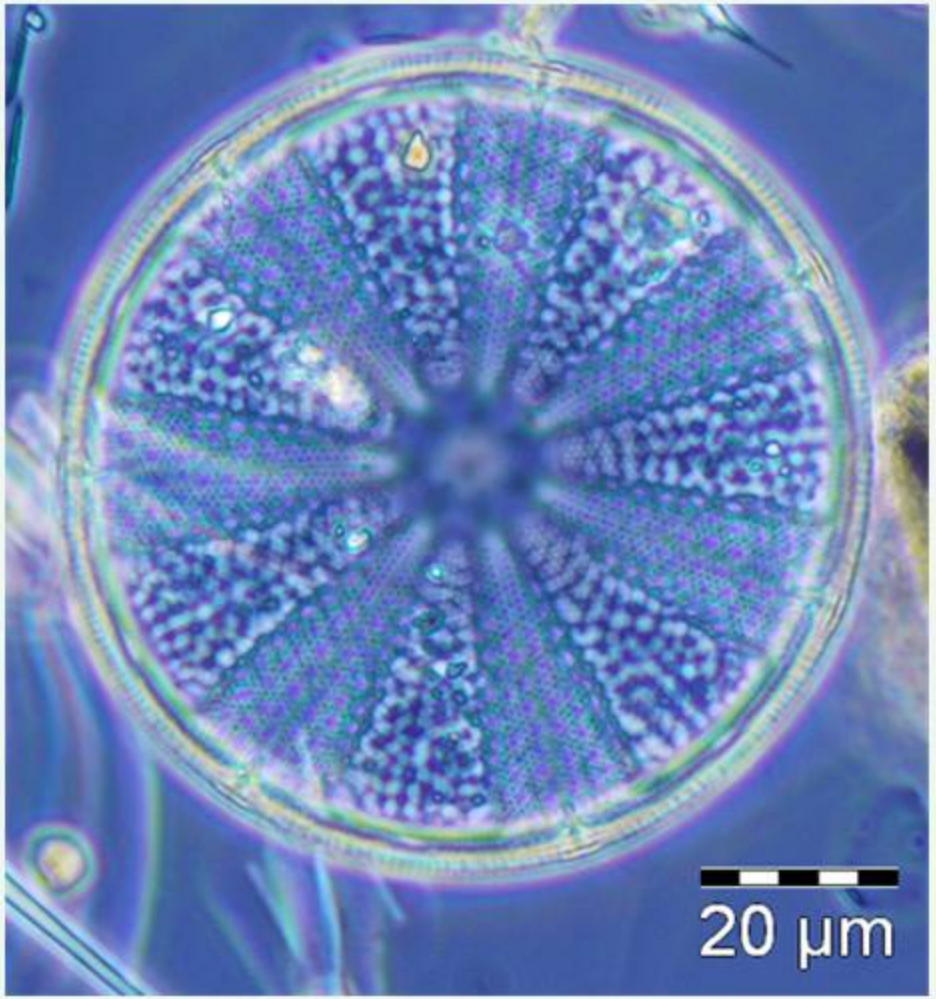


LM (North Sea, HELGO) cleaned material

phytoplankton - bacillariophyceae

Actinoptychus splendens

abundance: occasional abundant
life-form: solitary
diameter: 75-200µm



LM (North Sea, AMRU2) cleaned material

phytoplankton – bacillariophyceae

Amphora hybrida

abundance: spring, summer
life-form: solitary
apical axis: 12-38µm

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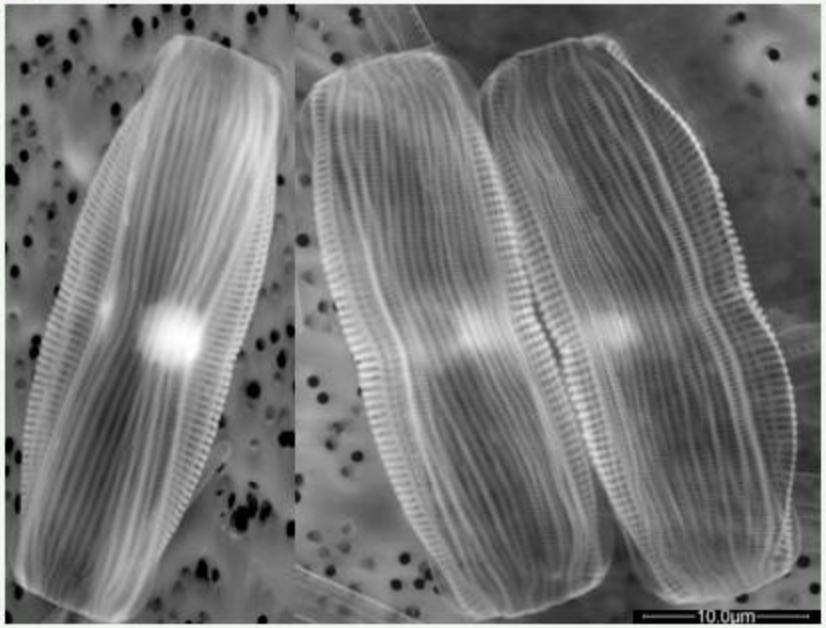
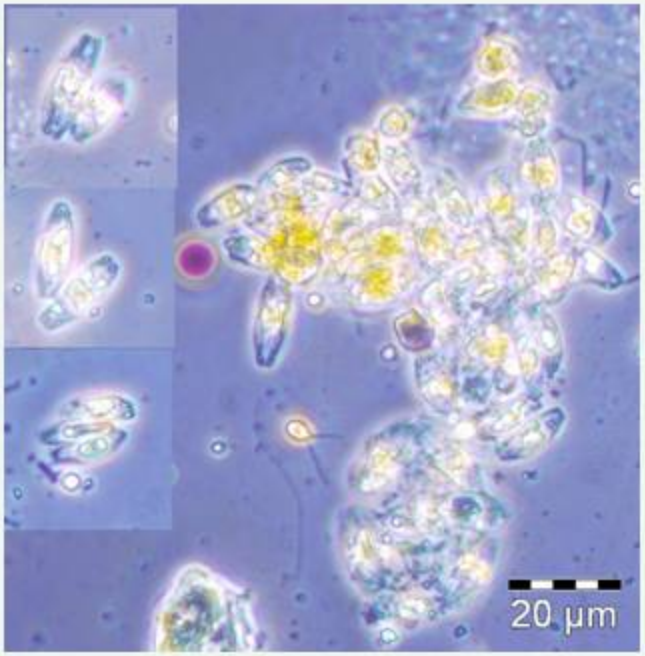
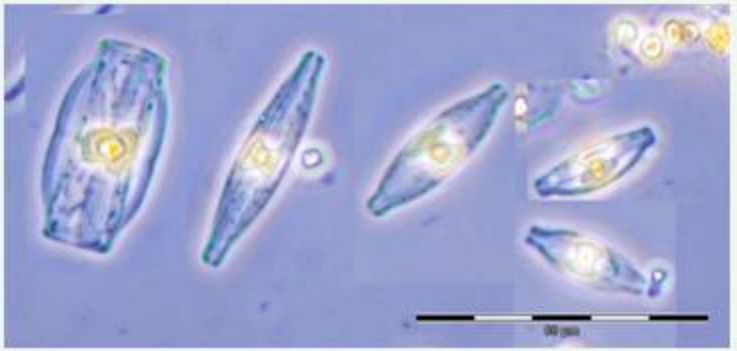
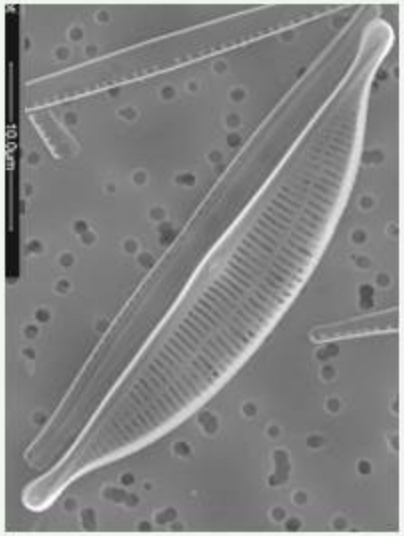


ESEM (Gotland Sea)





LM (Gotland Sea)

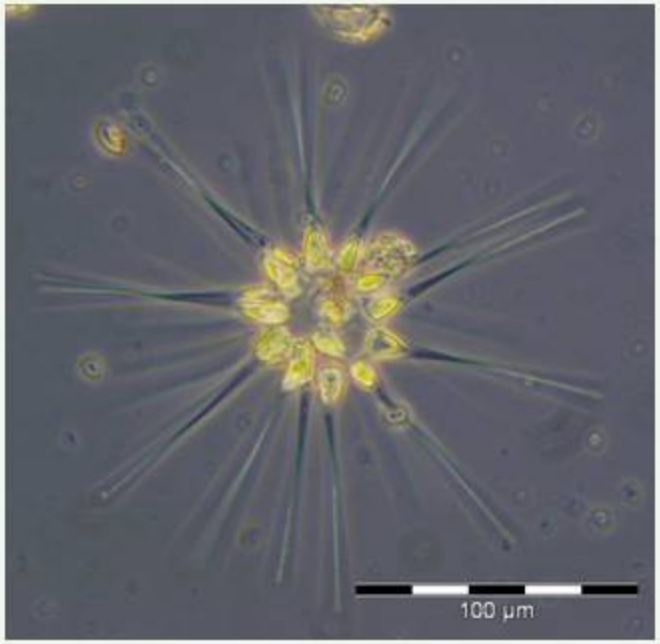


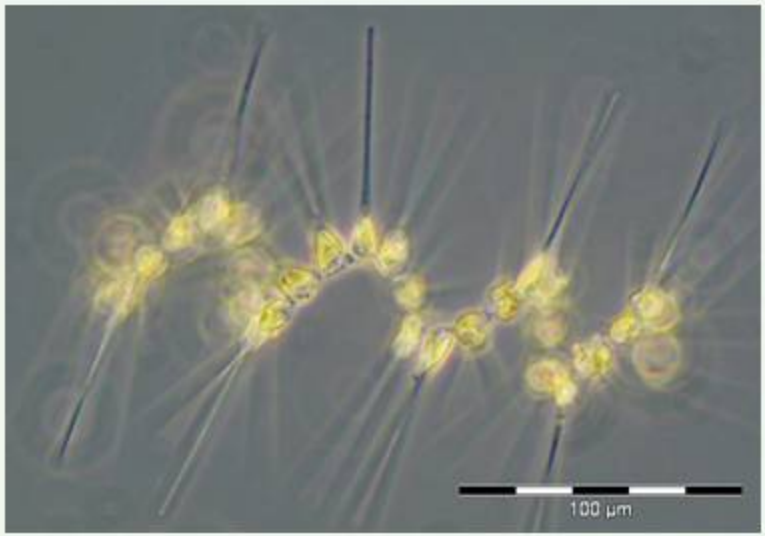
REM (Gotland Sea)

phytoplankton - bacillariophyceae

Asterionellopsis glacialis

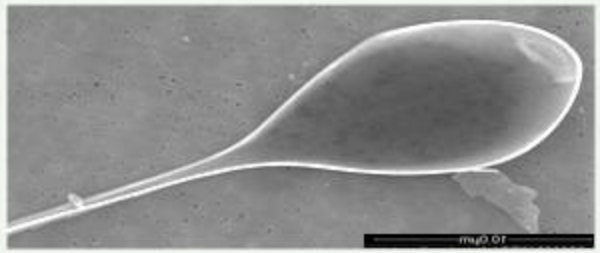
abundance: all year
life-form: spiral or star-like colonies
length: 30-150µm





LM (North Sea, ES1)

LM cleaned material
(North Sea, ES1)

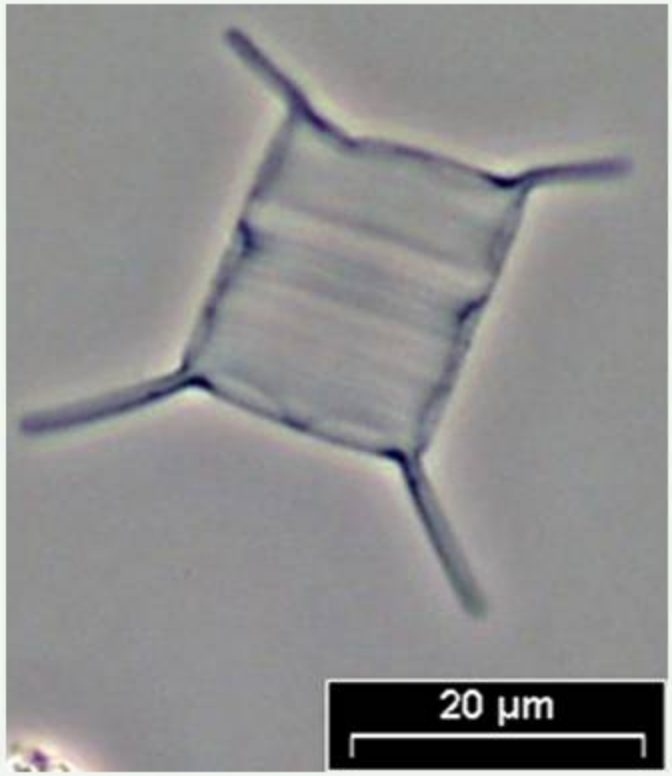


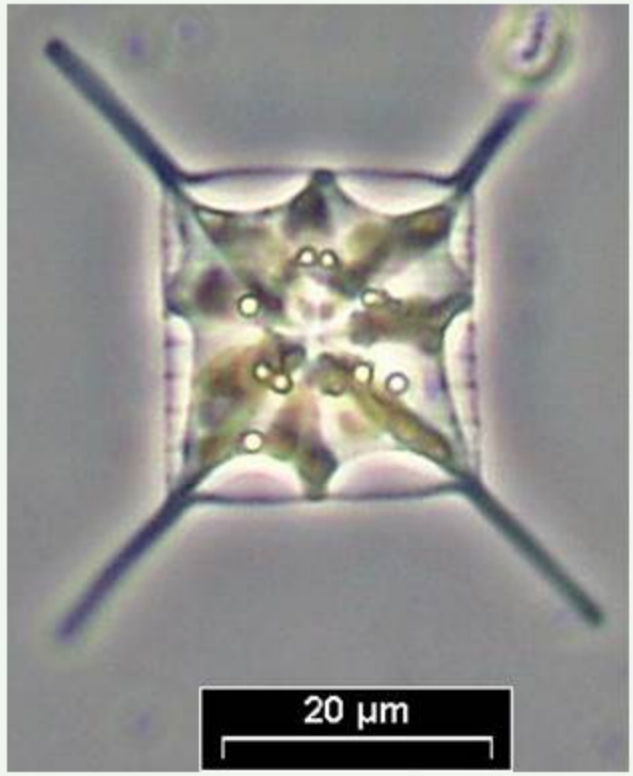
REM (North Sea, ES1)

phytoplankton - bacillariophyceae

Attheya decora

life-form: solitary
apical axis: 20 -40µm





LM (coastal station Heiligendamm)

phytoplankton – bacillariophyceae

Attheya septentrionalis

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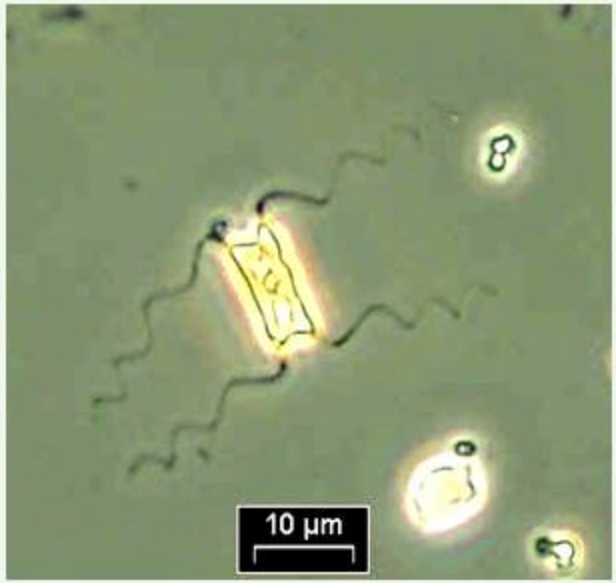
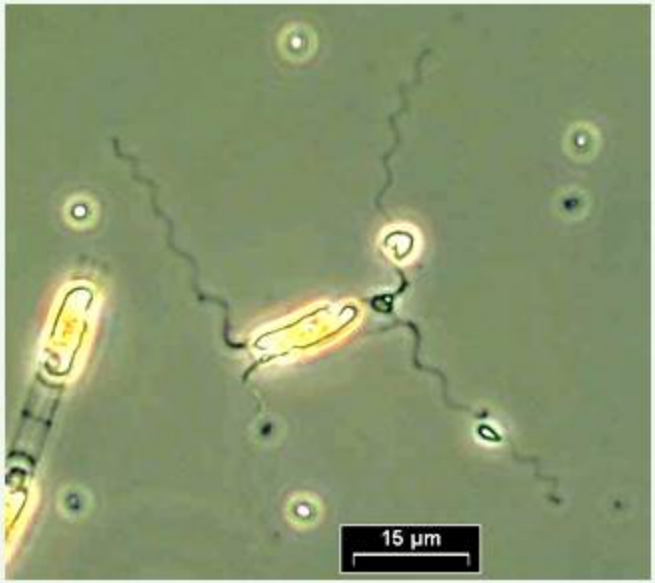
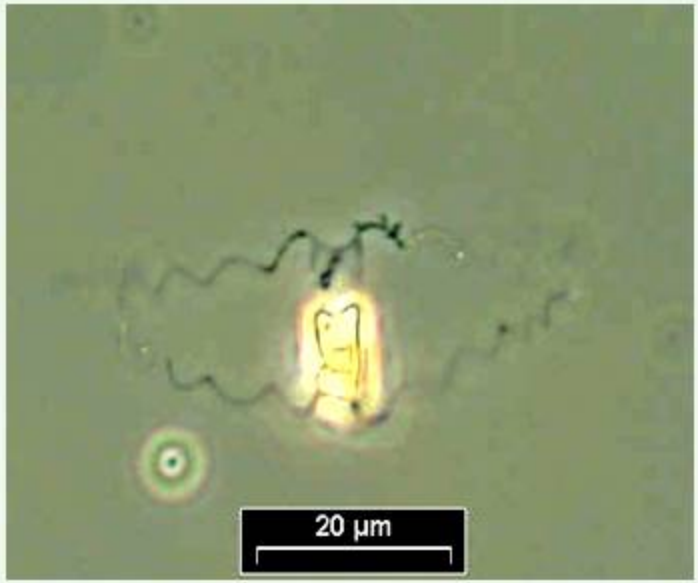
IOW

life-form: solitary
apical axis: 4 – 6 µm





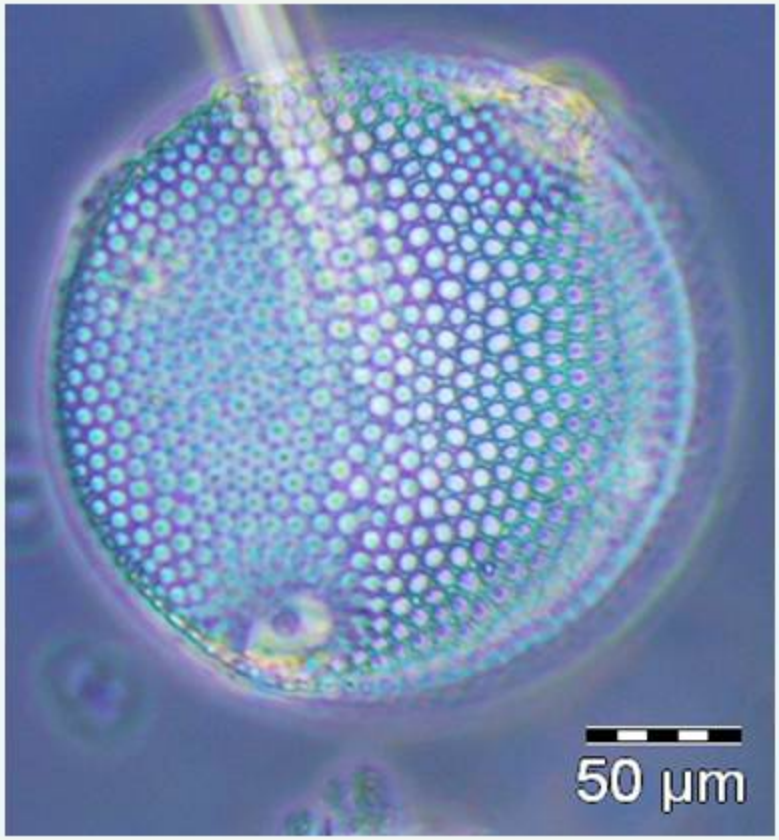


LM (Arkona Sea)

phytoplankton - bacillariophyceae

Aulacodiscus argus

abundance: occasional abundant
life-form: solitary
diameter: 80 - 260µm

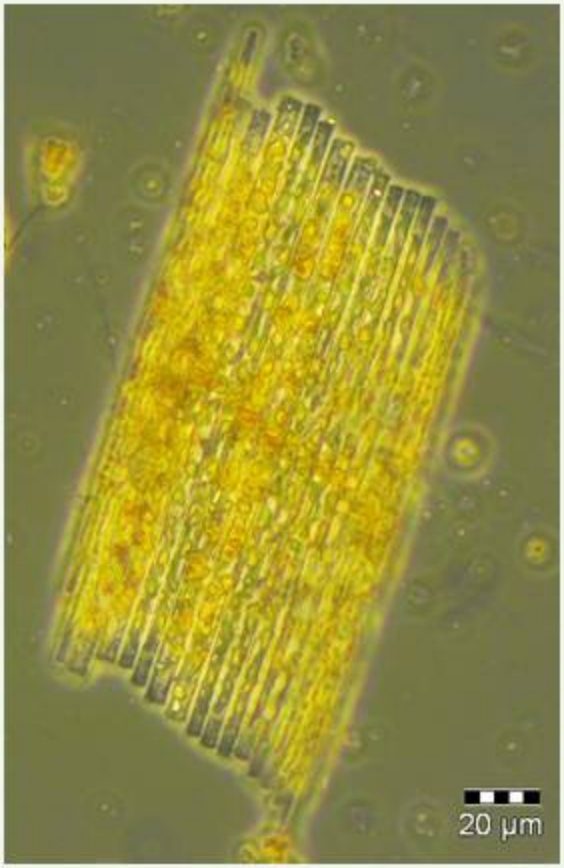


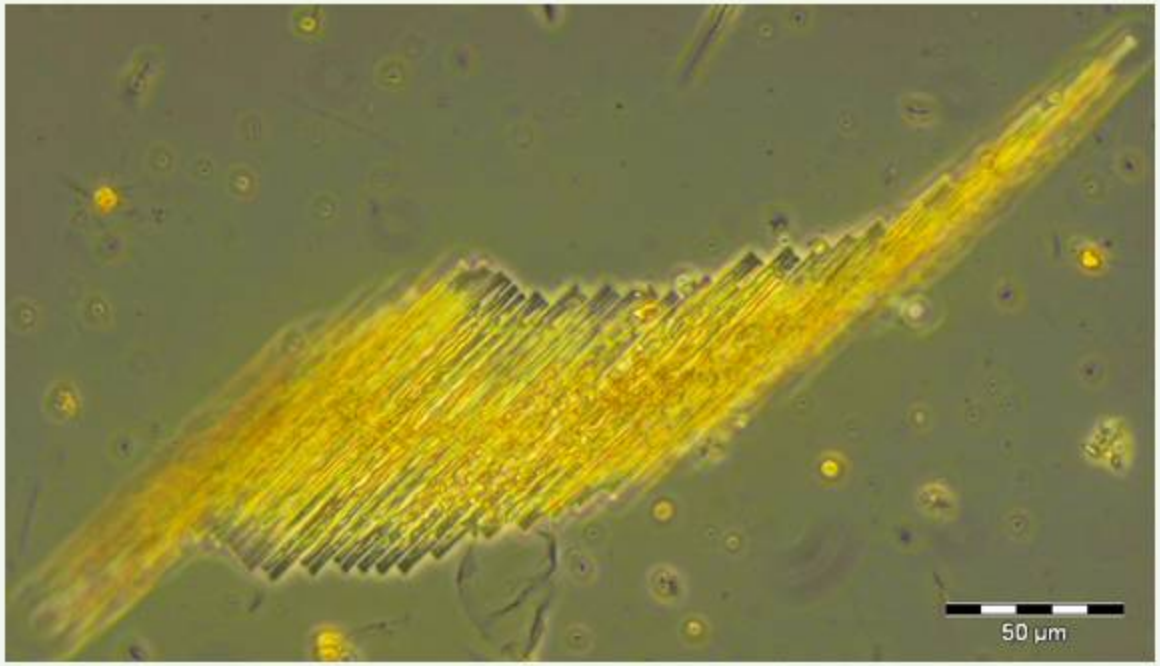
LM (North Sea, HELGO) cleaned material

phytoplankton - bacillariophyceae

Bacillaria paxillifer

abundance: throughout the year
life-form: in motile colonies
apical axis: 70-250µm



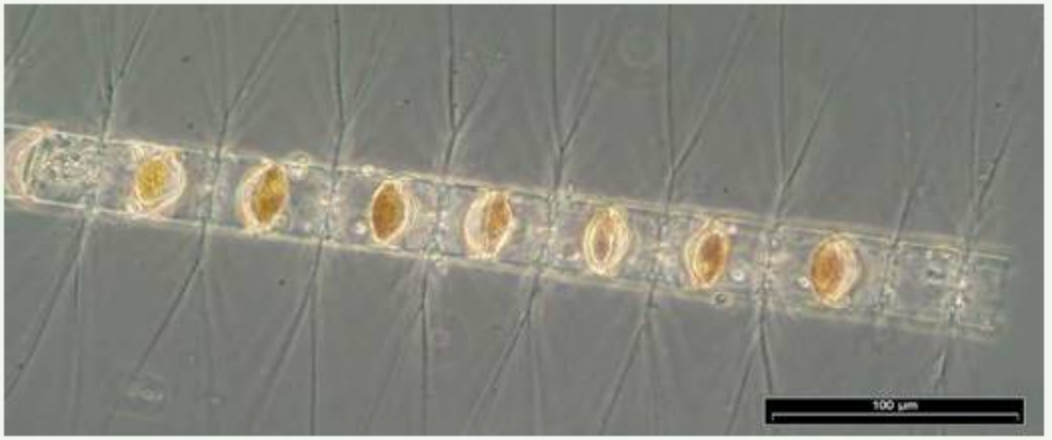


LM (North Sea, NGW8)

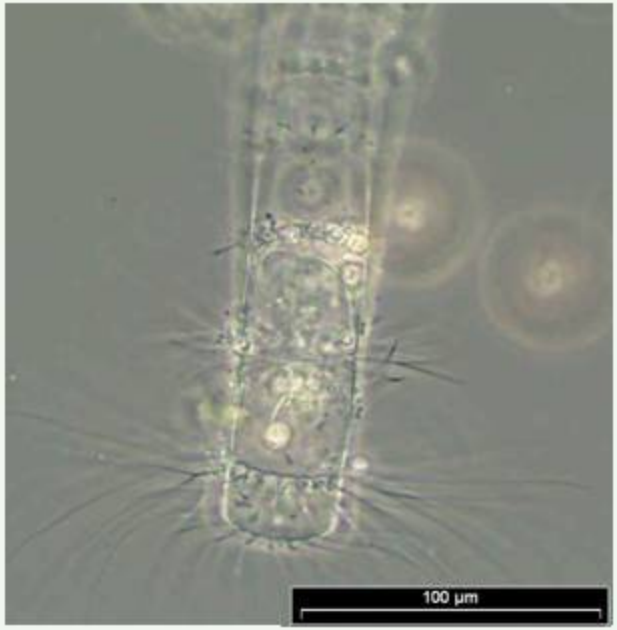
phytoplankton – bacillariophyceae

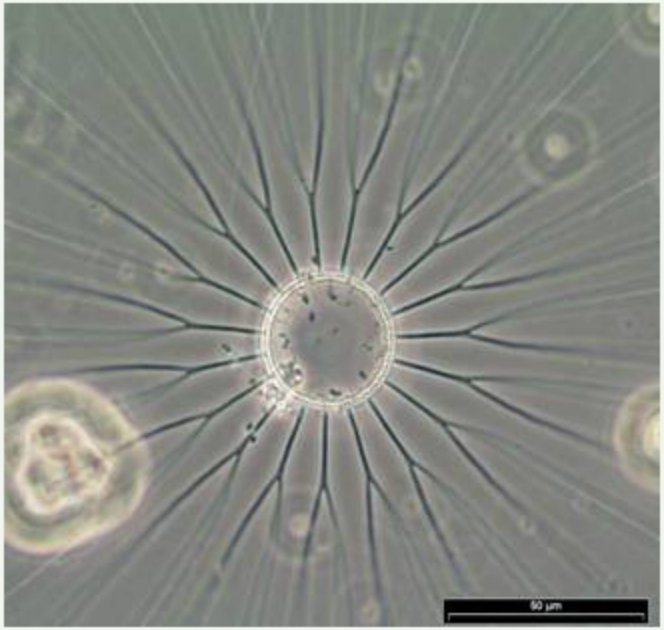
Bacteriastrum hyalinum

abundance: summer, late summer
life-form: mostly in chains
diameter: 13 - 56 µm

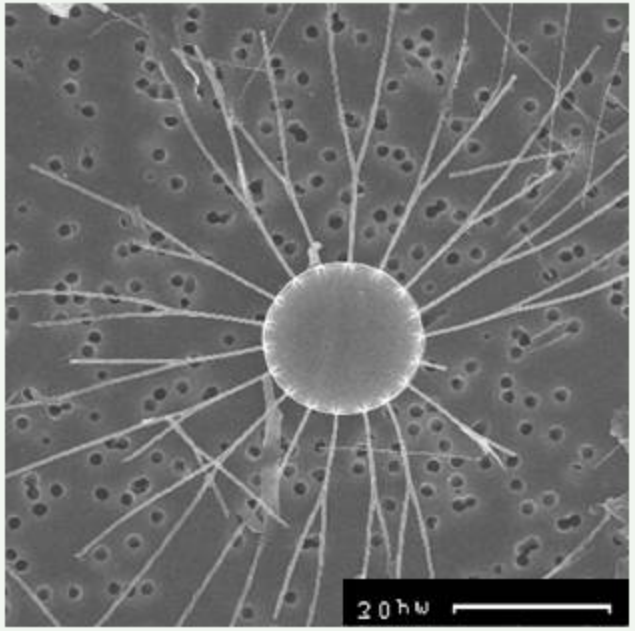


LM (North Sea , German Bight) resting spores





LM (North Sea, German Bight)

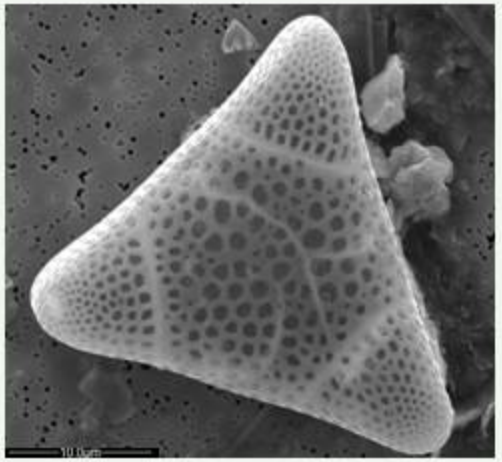


REM (North Sea, German Bight)

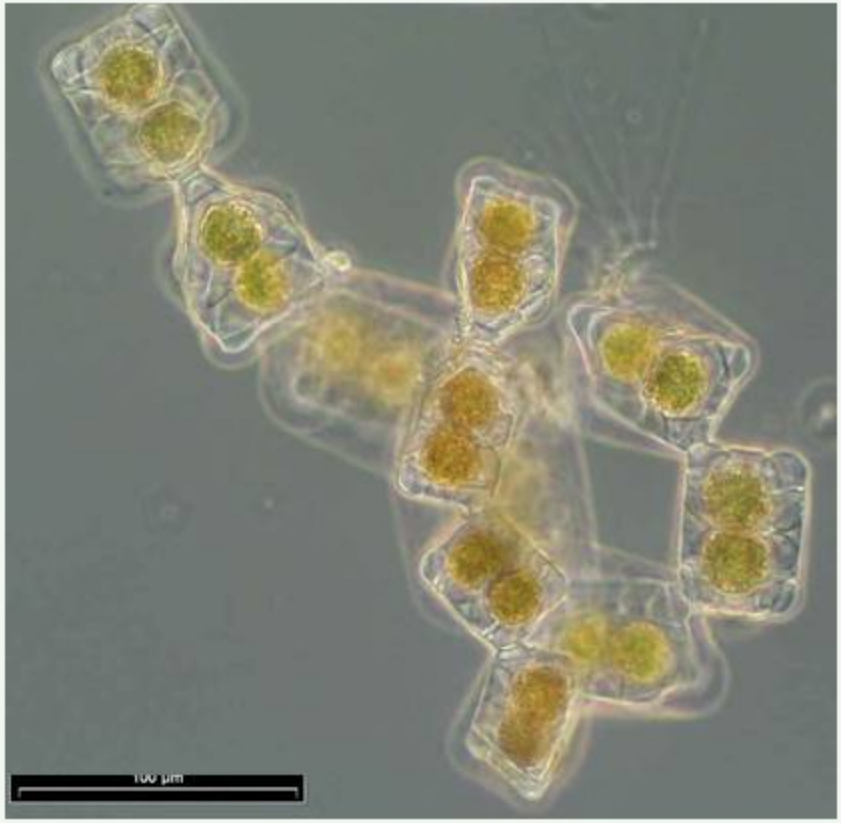
phytoplankton – bacillariophyceae

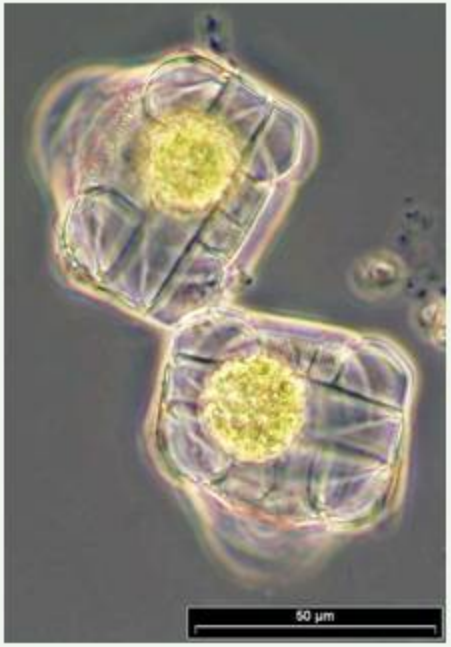
Biddulphia alternans

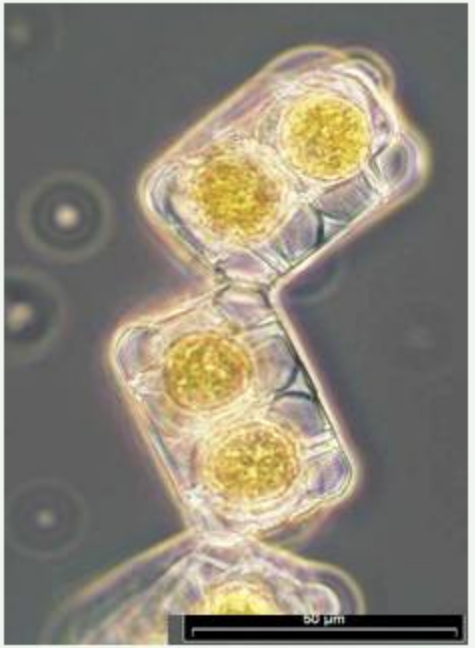
abundance: permanent abundant
life-form: in chains
diameter: 25 -60 µm



REM (North Sea, HELGO)





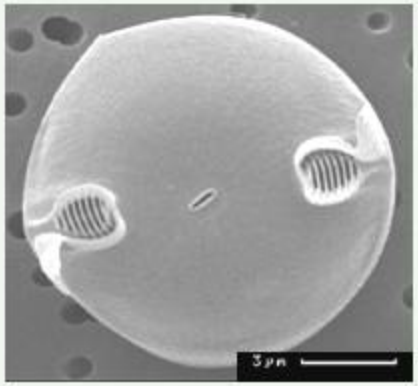


LM (North Sea, German Bight)

phytoplankton – bacillariophyceae

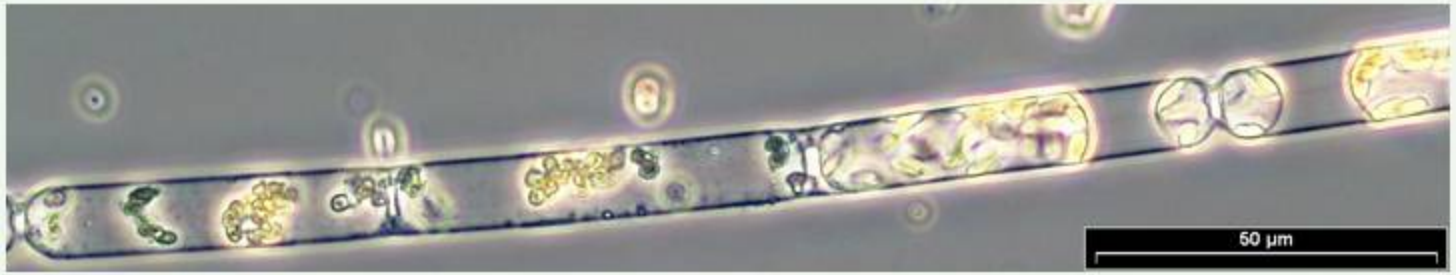
Cerataulina pelagica

life-form: solitary or in short chains
diameter: 7 - 56 µm
pervalvar axis: 55 -120 µm

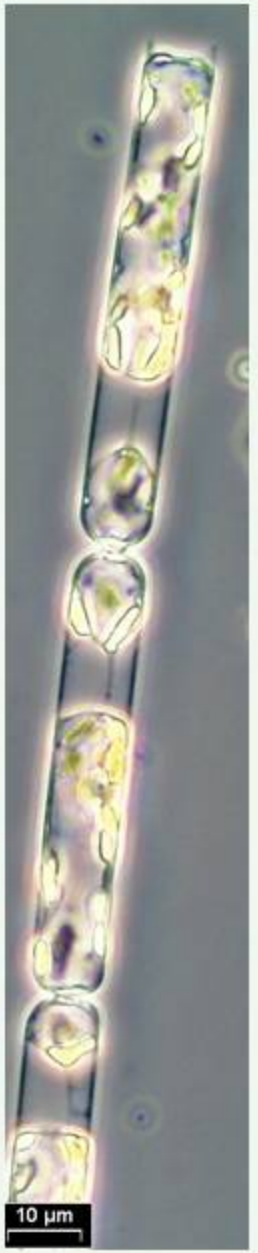


REM circular valve

preserved with
Lugol`s solution



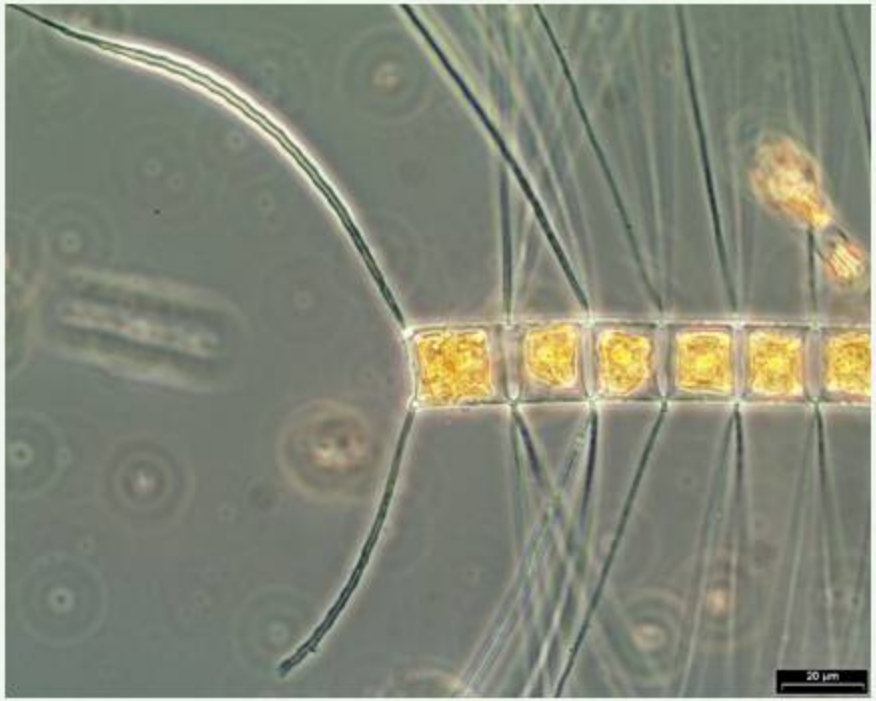
LM (coastal station Heiligendamm)

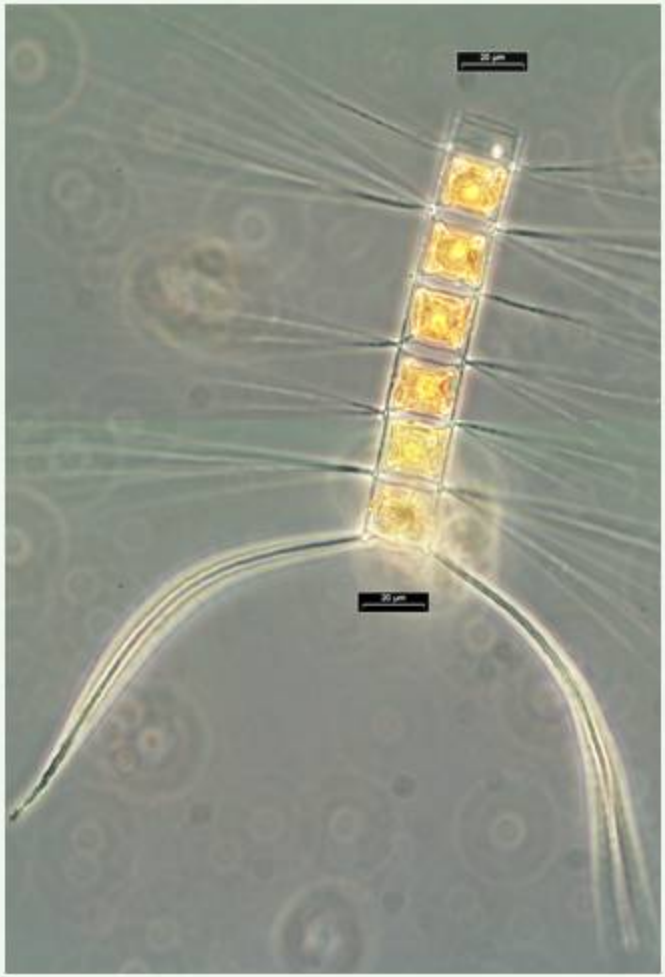


phytoplankton – bacillariophyceae

Chaetoceros affines

abundance: mainly from late summer to late autumn,
in small numbers in winter
life-form: in chains
apical-axis: 9 - 30µm



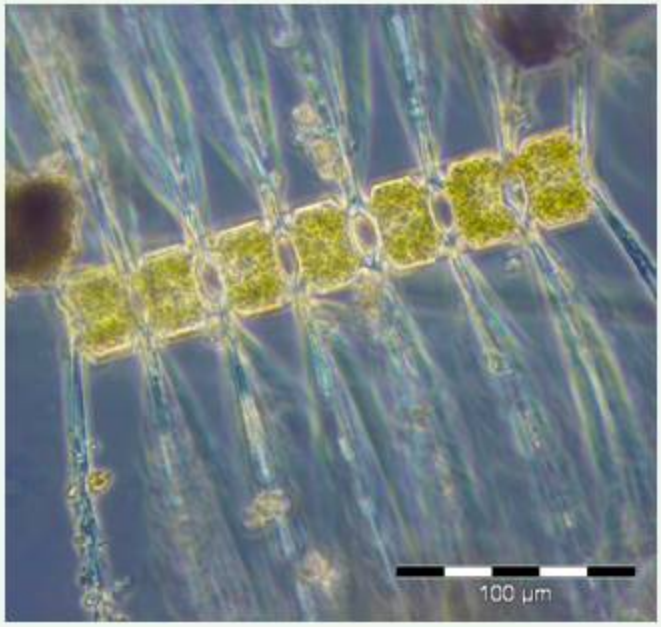


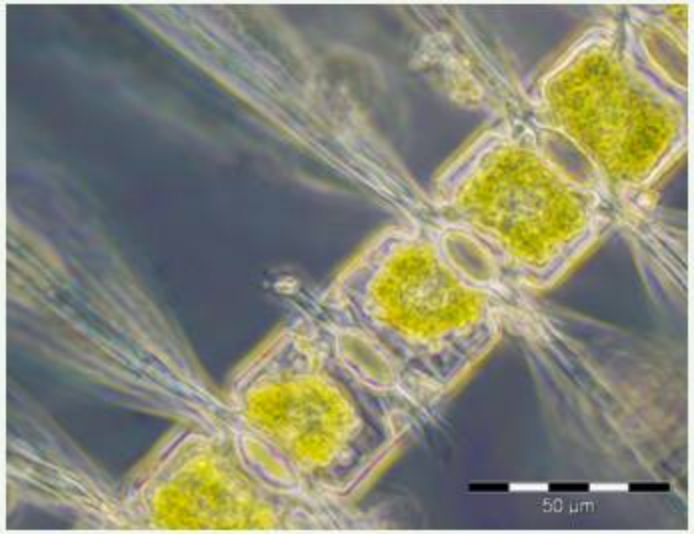
LM (coastal station Heiligendamm)

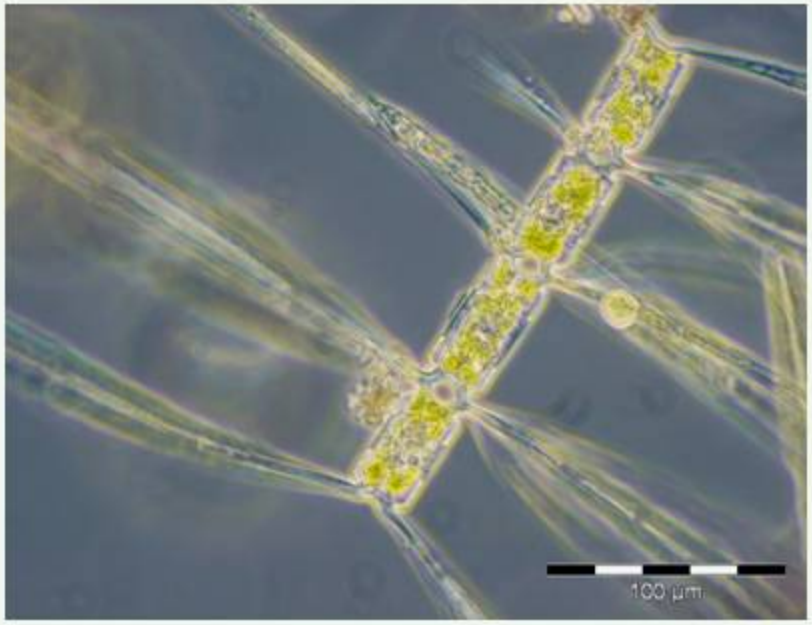
phytoplankton - bacillariophyceae

Chaetoceros borealis

abundance: spring
life-form: in chains
apical-axis: 12-46µm





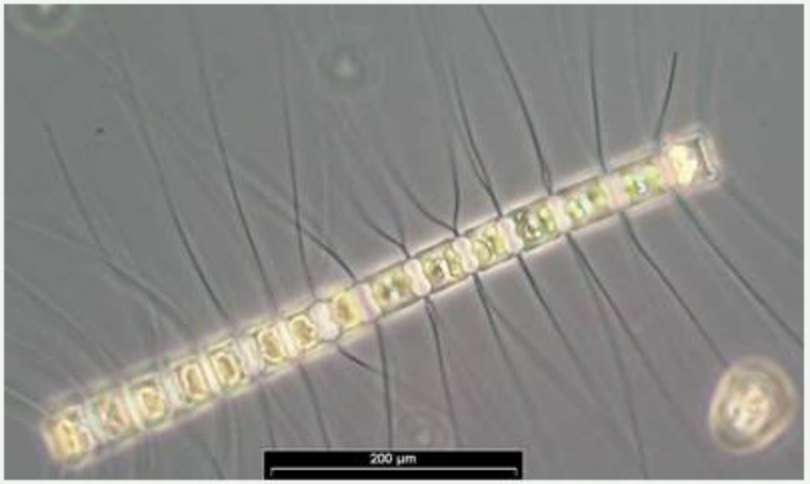


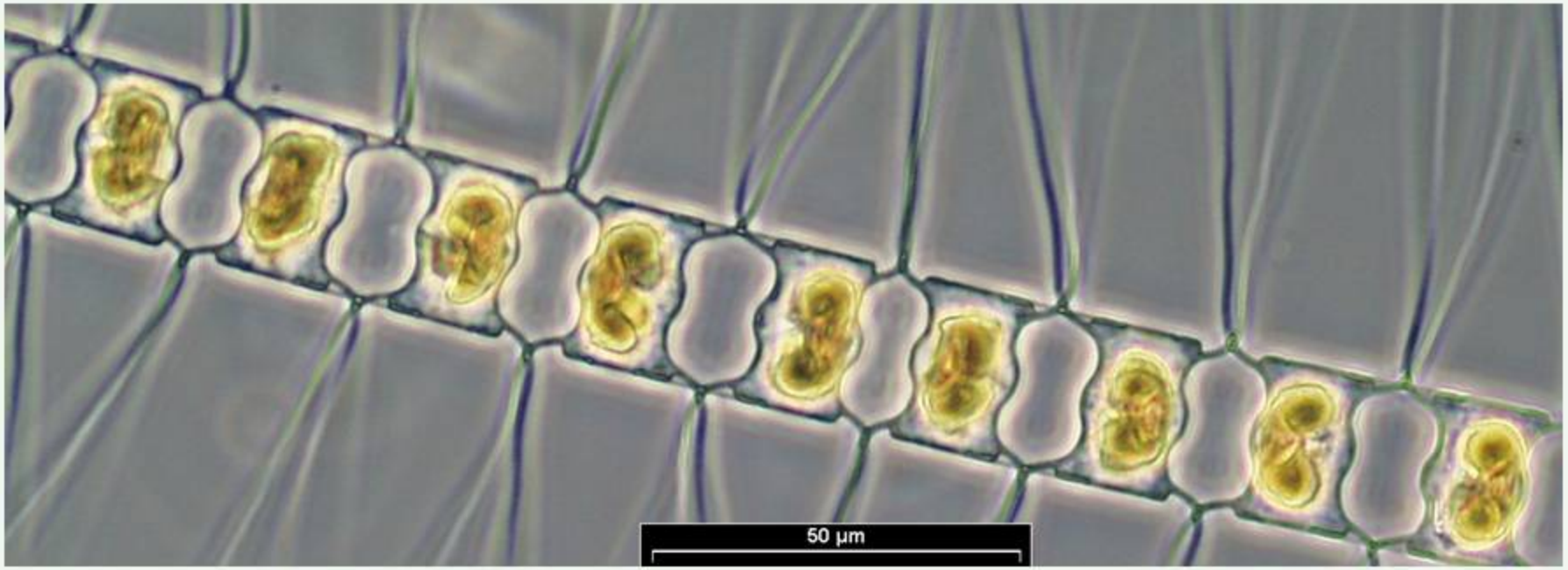
LM (North Sea, DTEND)

phytoplankton - bacillariophyceae

Chaetoceros brevis

abundance: spring, autumn, winter
life-form: in straight chains
diameter: 7 - 40µm





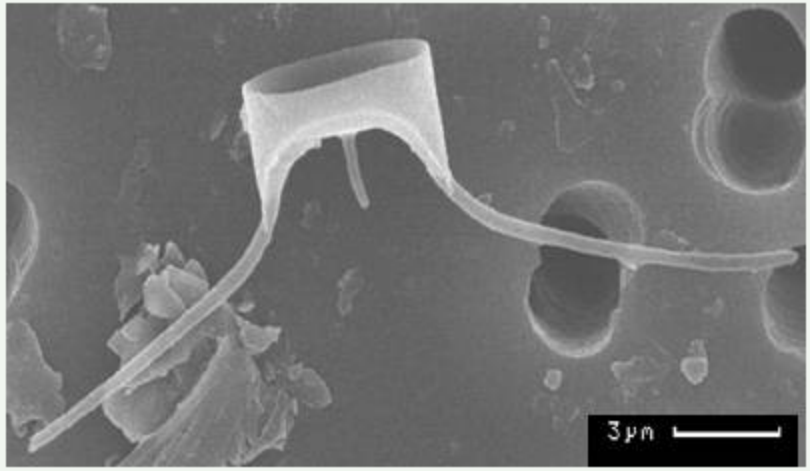
LM (coastal station Heiligendamm)

phytoplankton – bacillariophyceae

Chaetoceros ceratosporus

abundance: spring, autumn
life-form: solitary or in short, straight chains
diameter: 5 - 20 µm

LM (Gotland Sea, sediment trap)

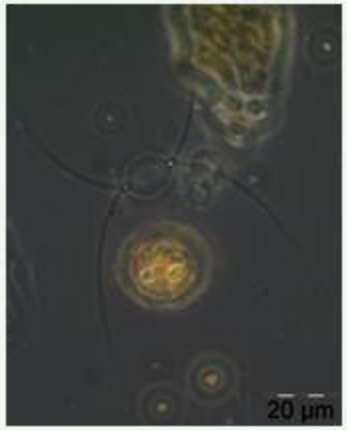


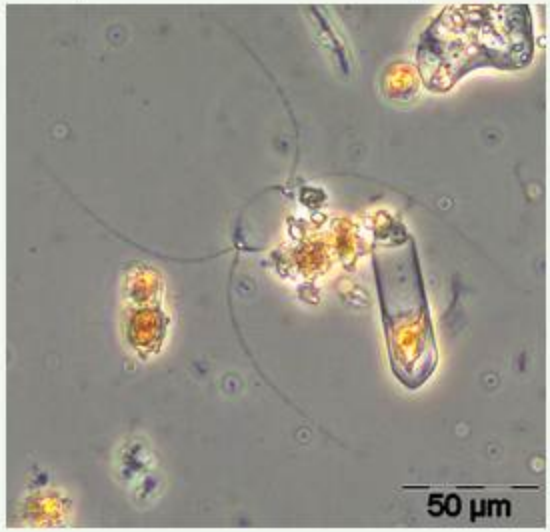
REM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Chaetoceros circinalis

life-form: in short chains
apical axis: 7-35µm



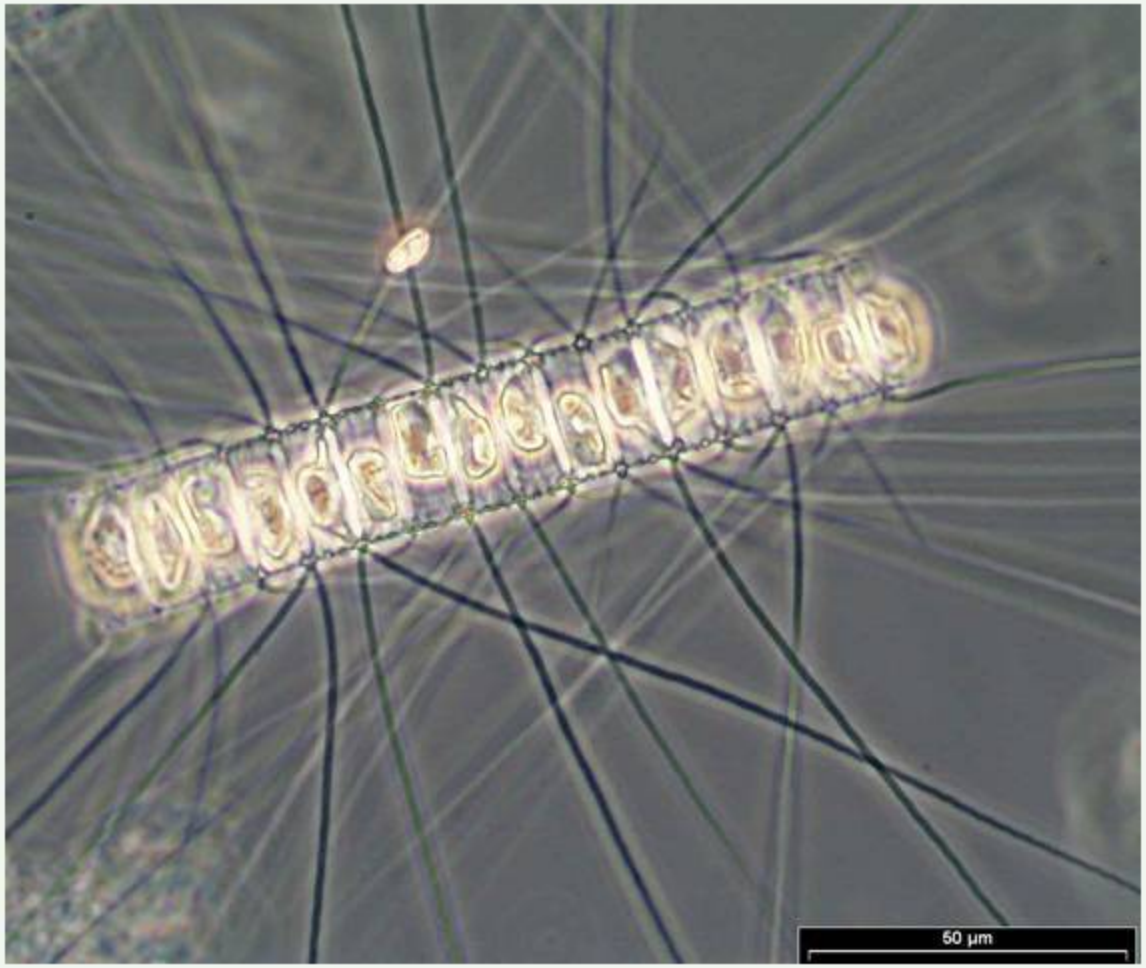


LM (Mecklenburg Bight)

phytoplankton - bacillariophyceae

Chaetoceros constrictus

abundance: permanent abundant, maximum in late spring
life-form: in chains
diameter: 7 - 30 µm

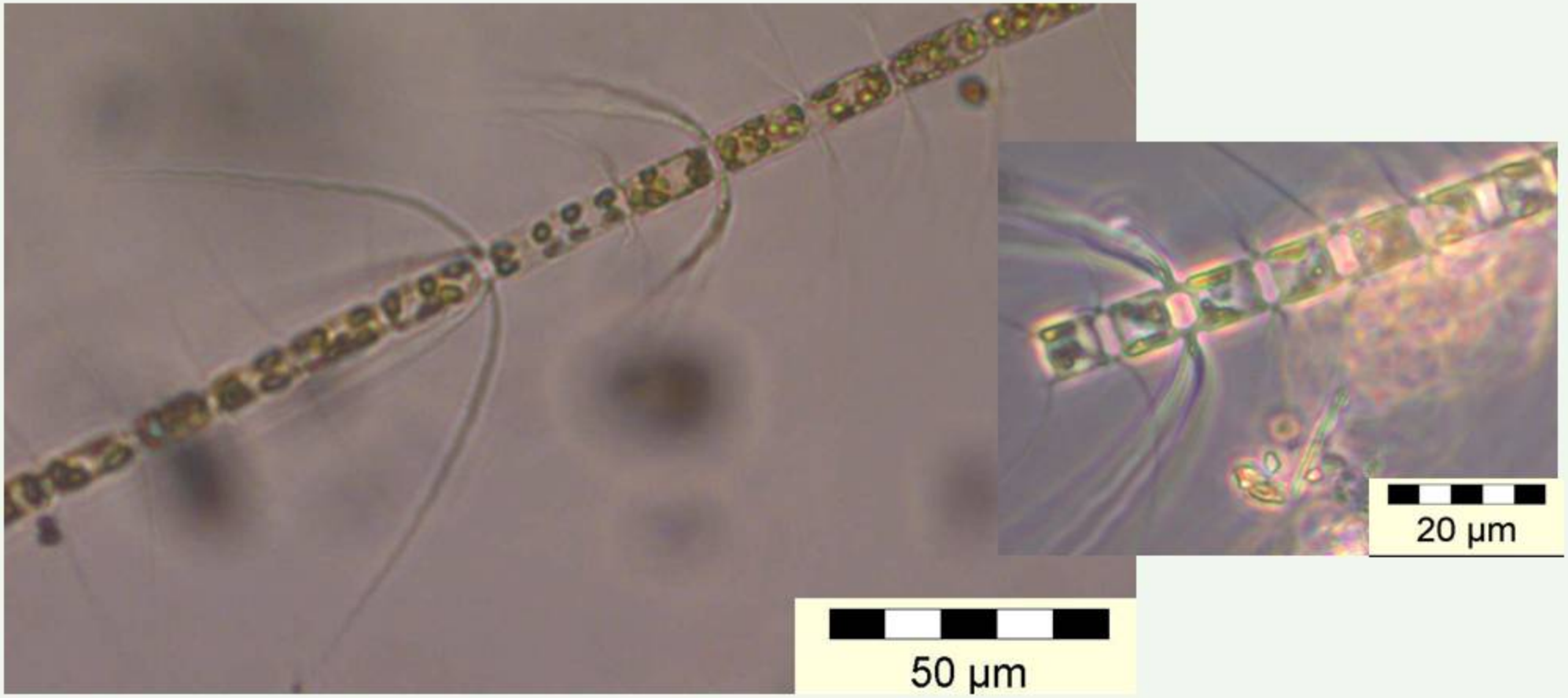


LM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Chaetoceros contortus

abundance: from early summer until late winter
life-form: in chains

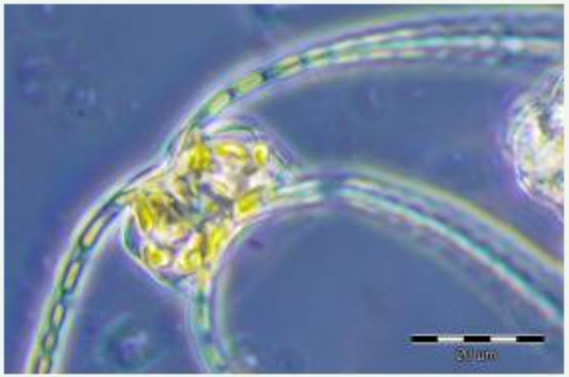


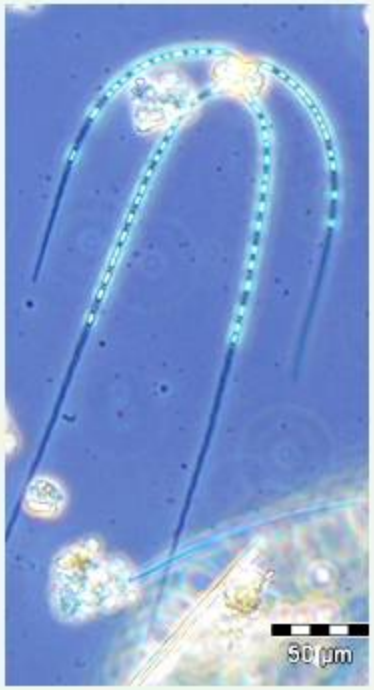
LM (Mecklenburg Bight)

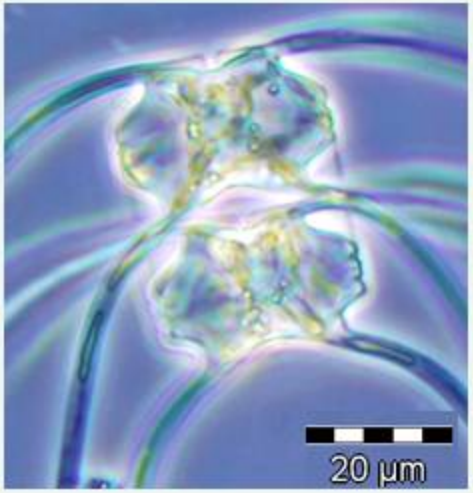
phytoplankton – bacillariophyceae

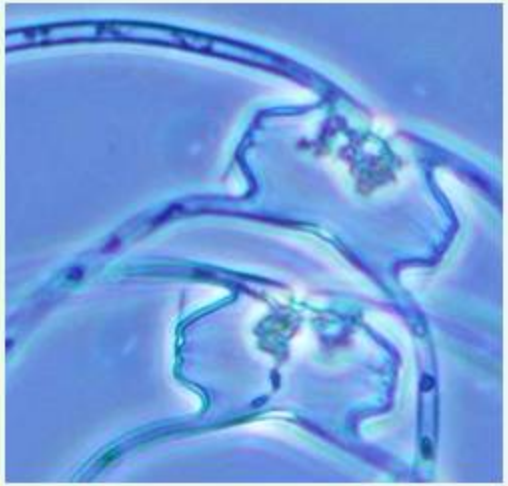
Chaetoceros convolutus

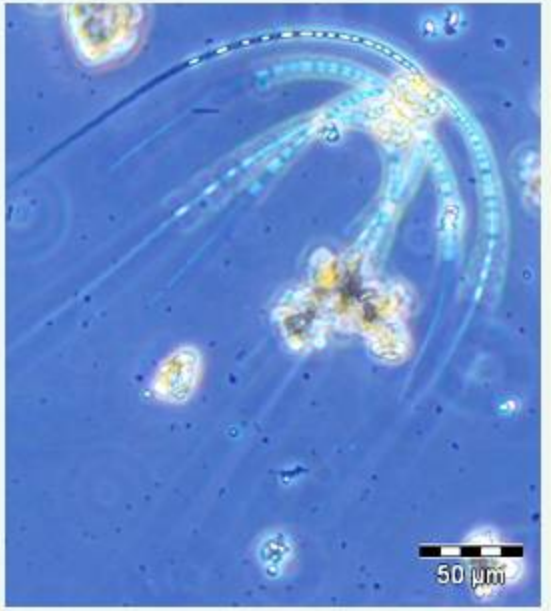
abundance: summer
life-form: in chains
apical axis: 10-27µm









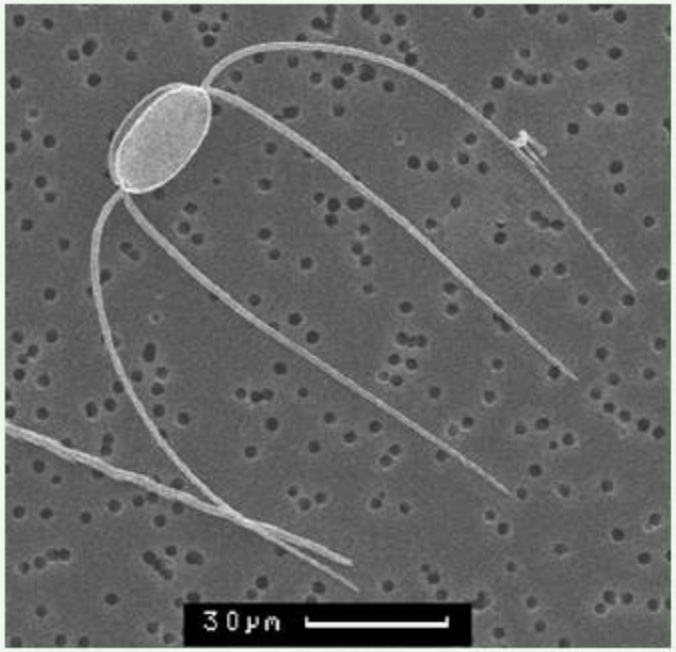


LM (coastal station Heiligendamm)

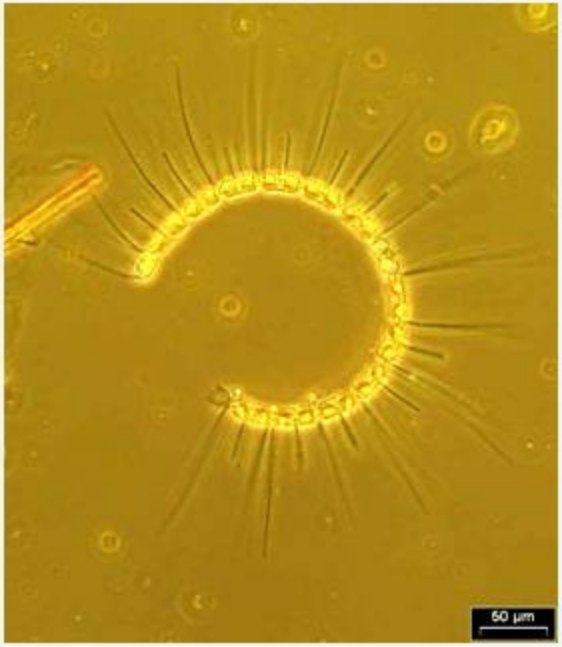
phytoplankton - bacillariophyceae

Chaetoceros curvisetus

abundance: throughout the year, highest abundance in autumn
life-form: in spirally twisted chains
apical axis: 10 – 29 µm



REM (coastal station Heiligendamm)

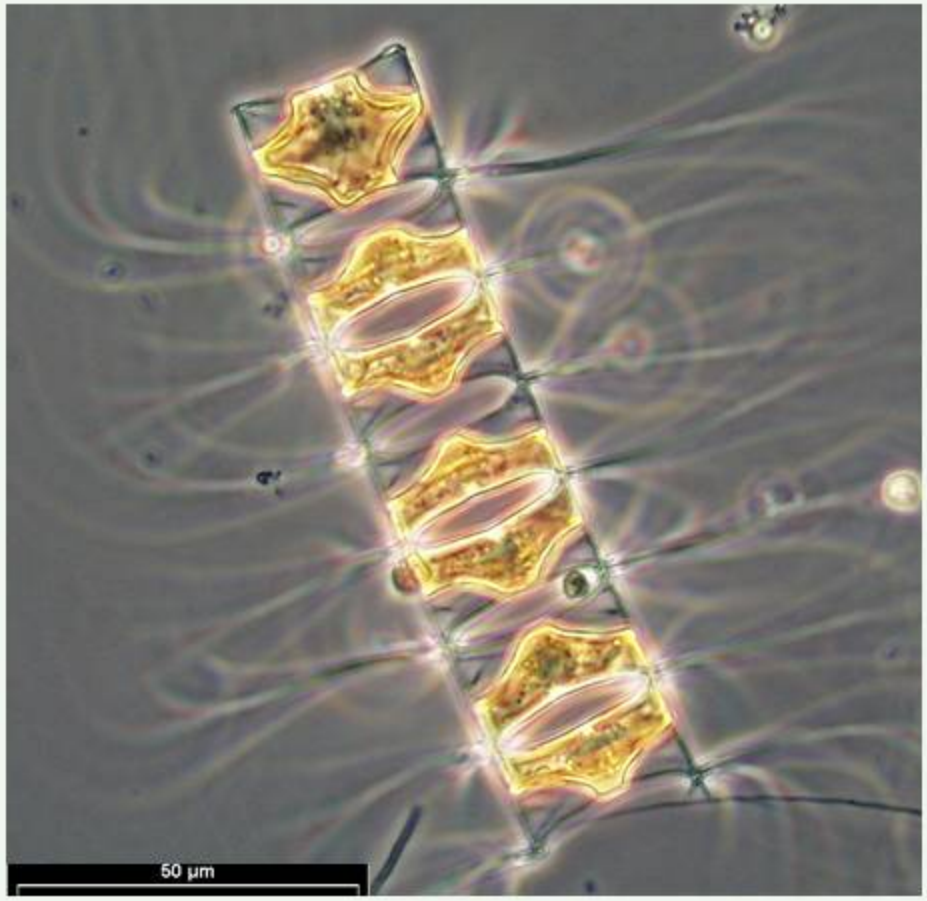


LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Chaetoceros debilis

abundance: autumn, winter, spring
life-form: in spirally twisted chains
diameter: 10 - 30µm

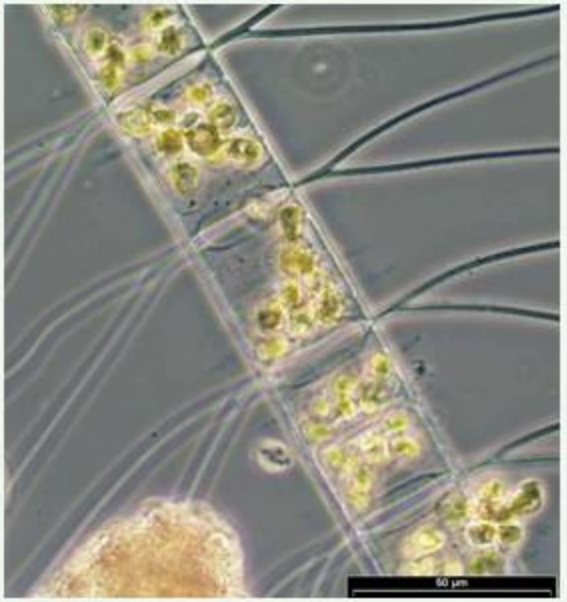


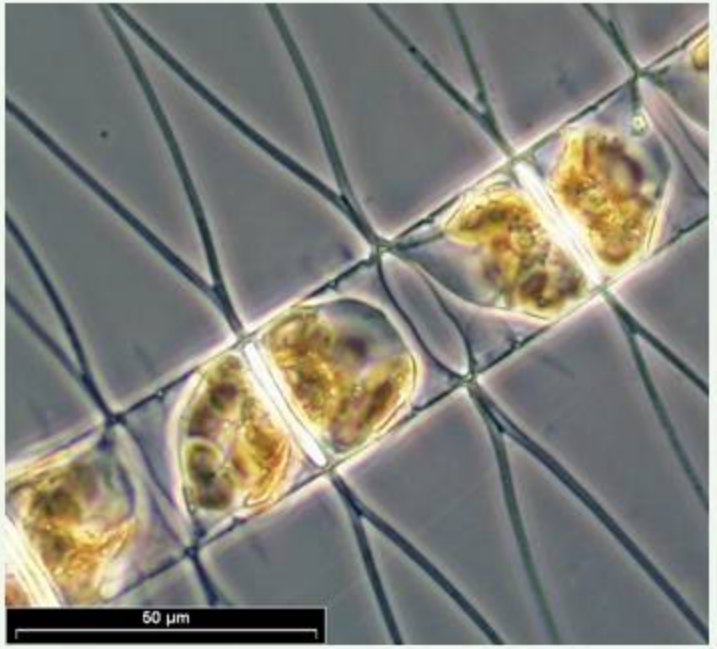
LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Chaetoceros decipiens

abundance: spring, autumn
life-form: in straight chains
diameter: 20 - 40µm



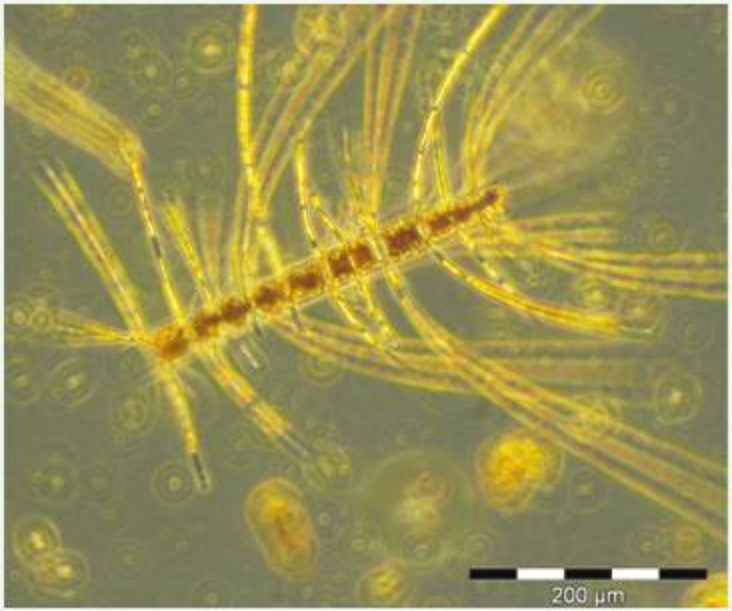


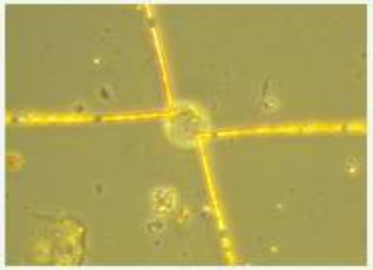
LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

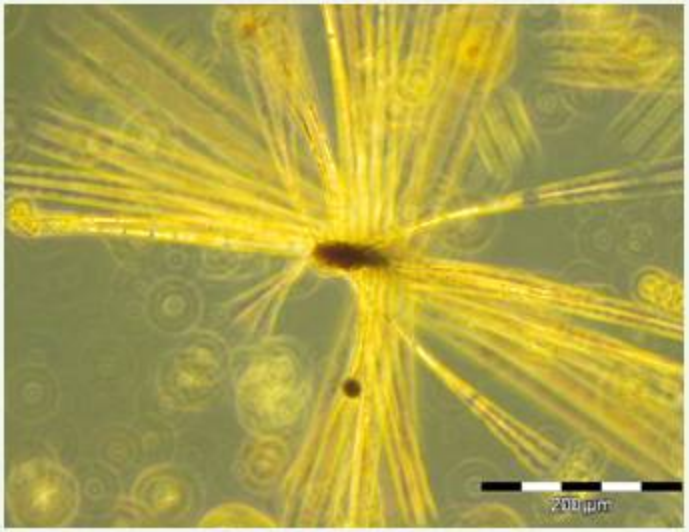
Chaetoceros densus

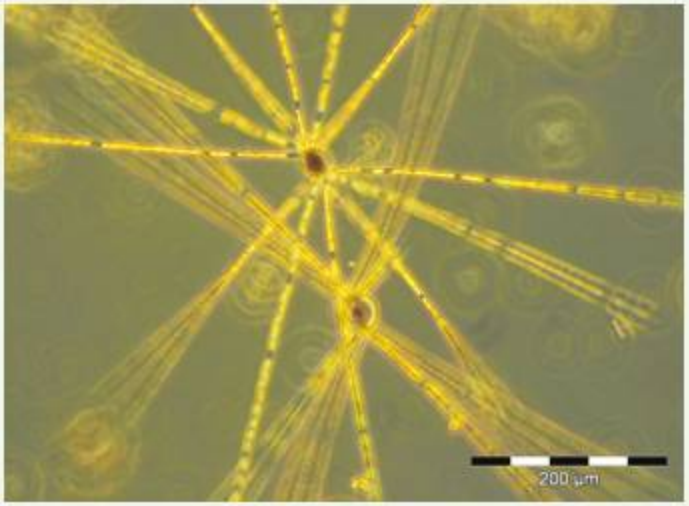
abundance: summer, autumn
life-form: in chains
apical-axis: 10-55µm





LM (North Sea, AMRU2)





phytoplankton - bacillariophyceae

Chaetoceros diadema

abundance: late winter, spring
life-form: in chains
diameter: 8 - 40µm

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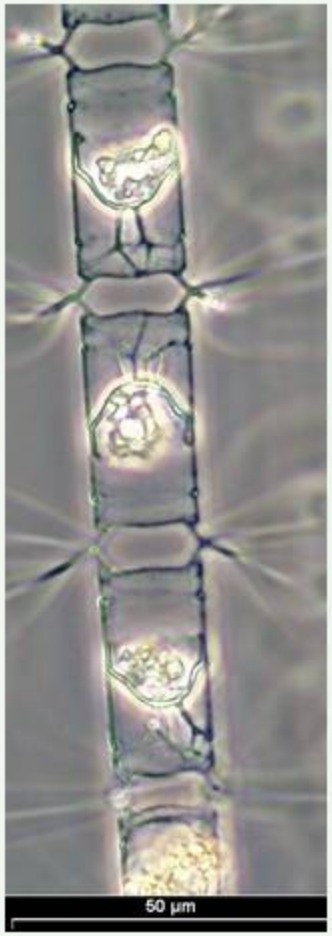
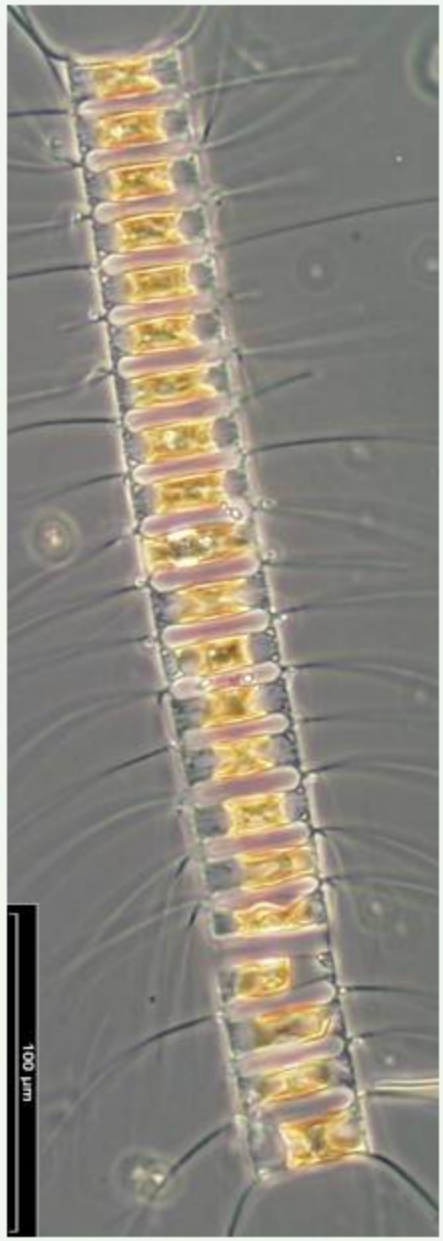


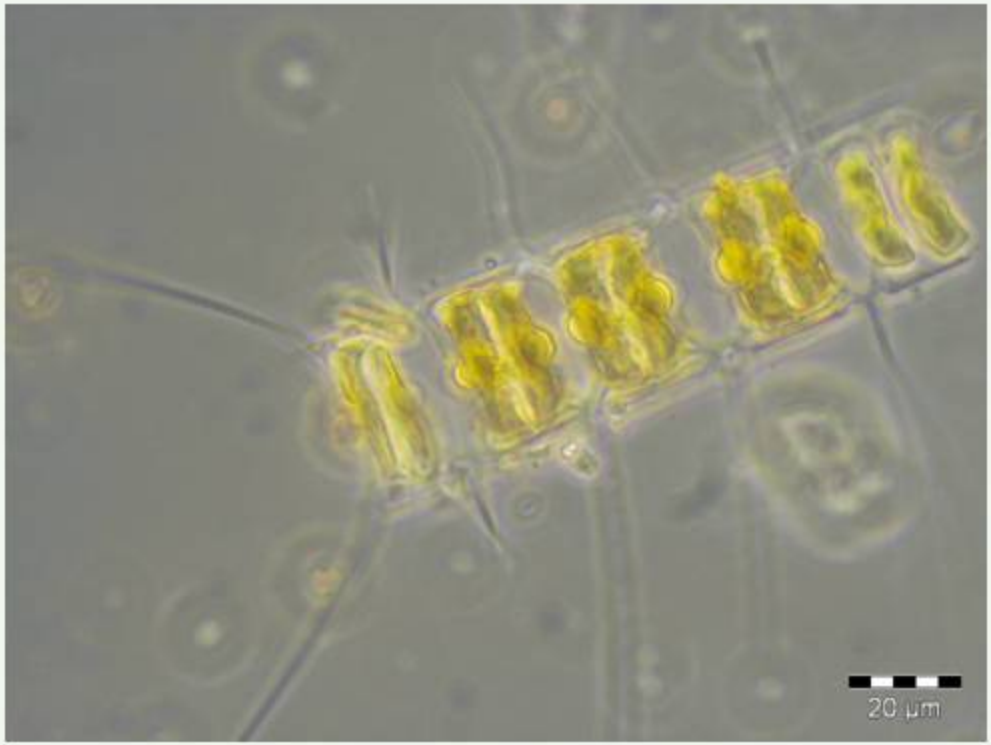


LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Chaetoceros didymus

abundance: all year
life-form: in chains
apical axis: 10-40µm



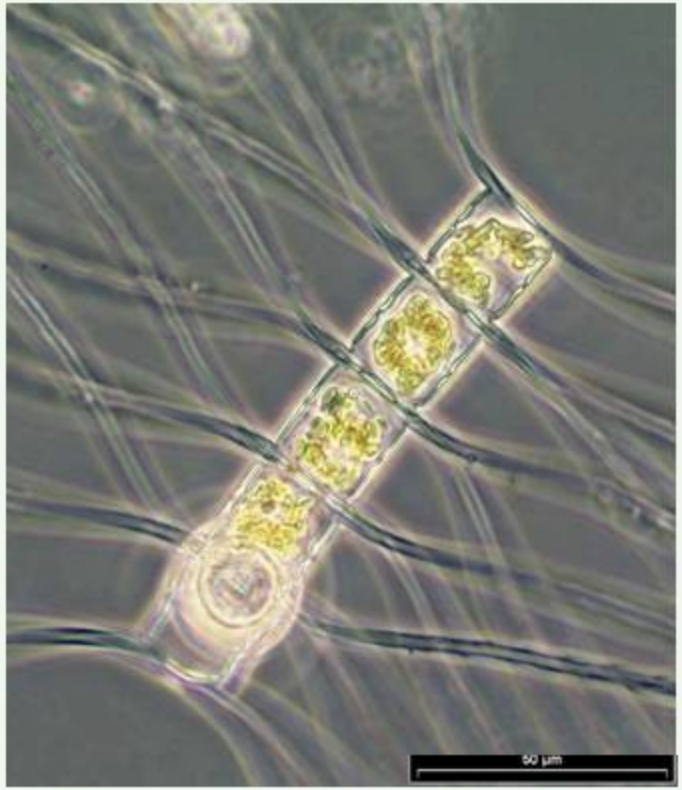
LM (North Sea, UFSDB)

phytoplankton - bacillariophyceae

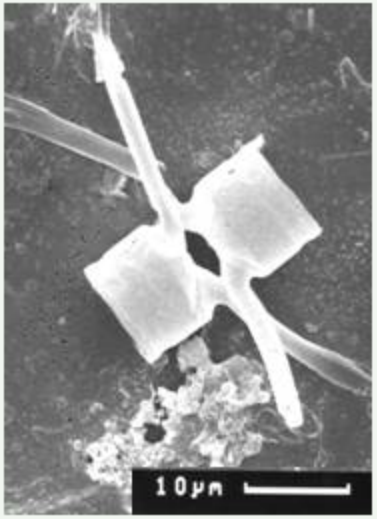
Chaetoceros impressus

abundance: autumn
life-form: in chains
diameter: 17 - 28 µm

LM (coastal station Heiligendamm)



LM (coastal station Heiligendamm)



REM

LM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Chaetoceros laciniosus

abundance: late summer to spring
life-form: in chains
diameter: 10 - 40µm

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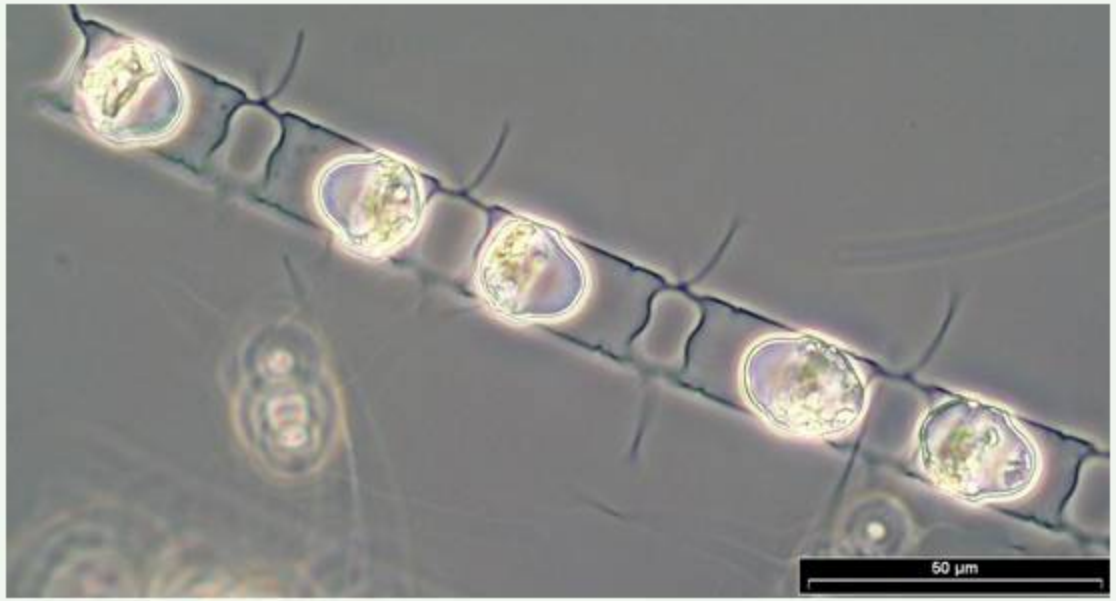
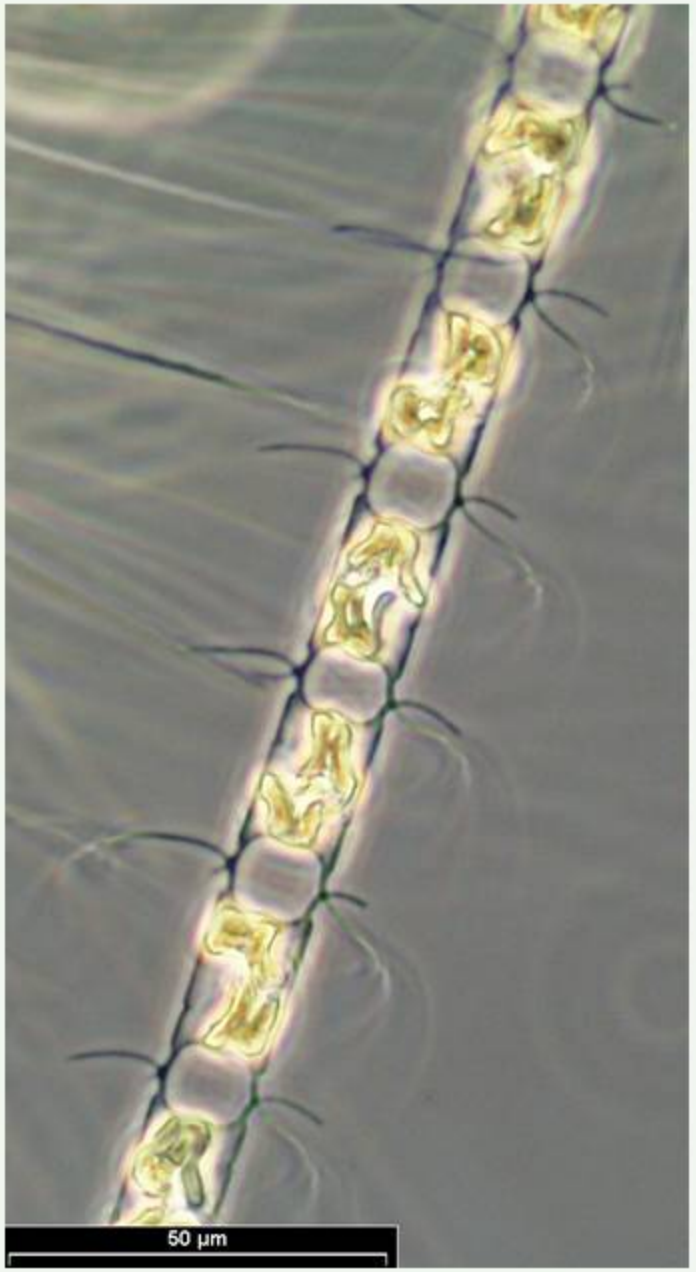


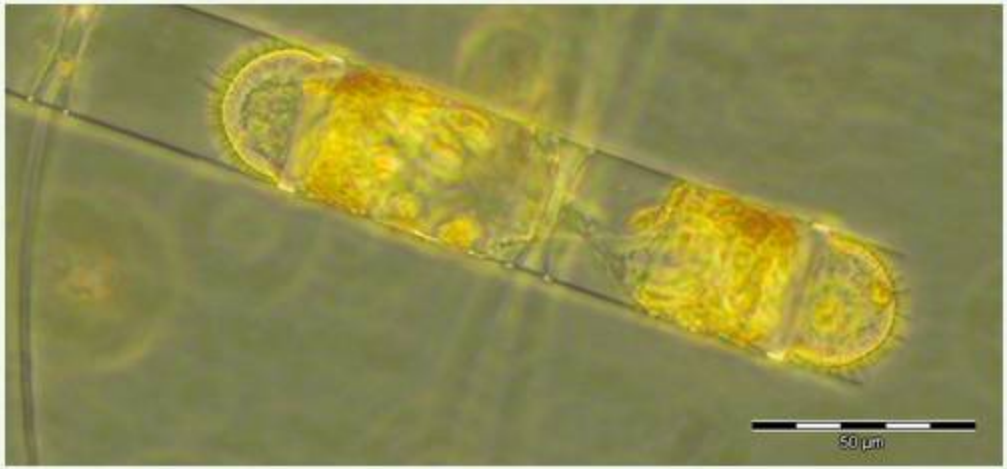


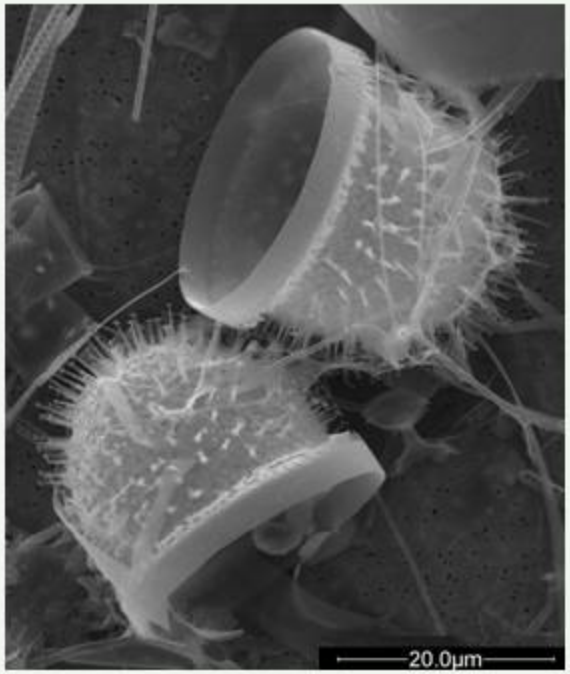
LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Chaetoceros lauderi

abundance: summer
life-form: in chains
apical axis: 22-50µm



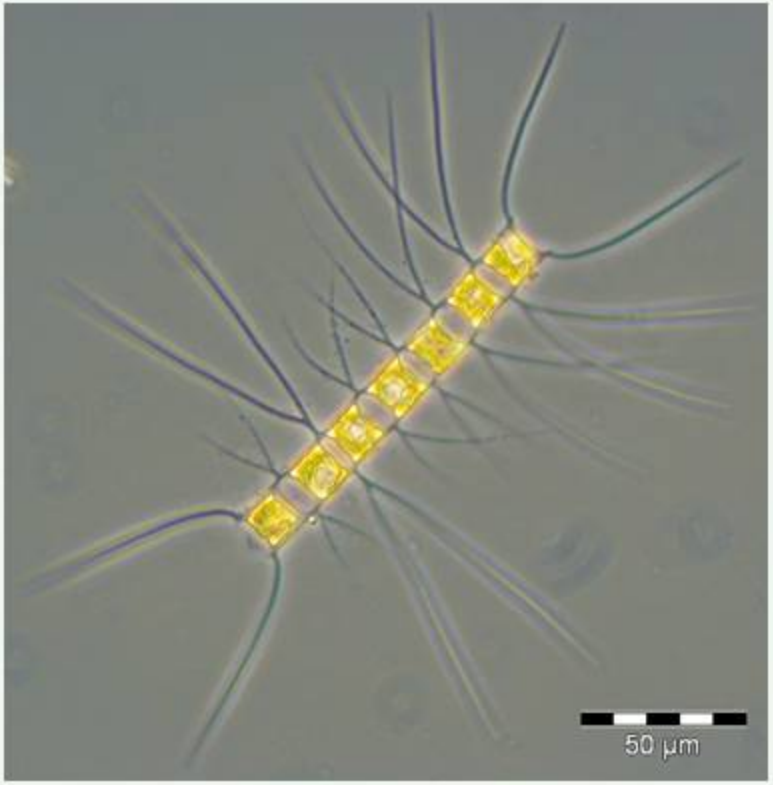


LM, REM (North Sea, NGW8)
resting spores

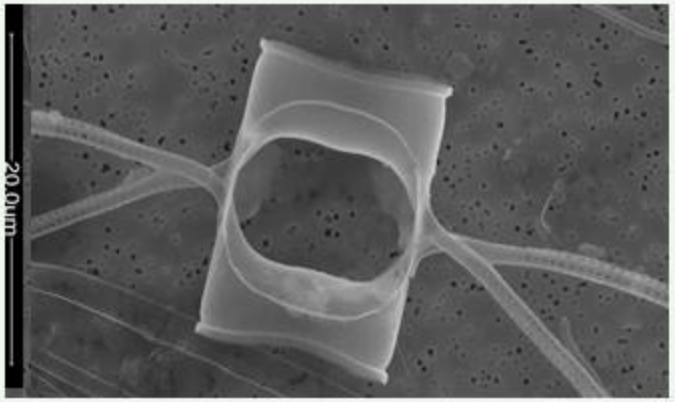
phytoplankton - bacillariophyceae

Chaetoceros lorenzianus

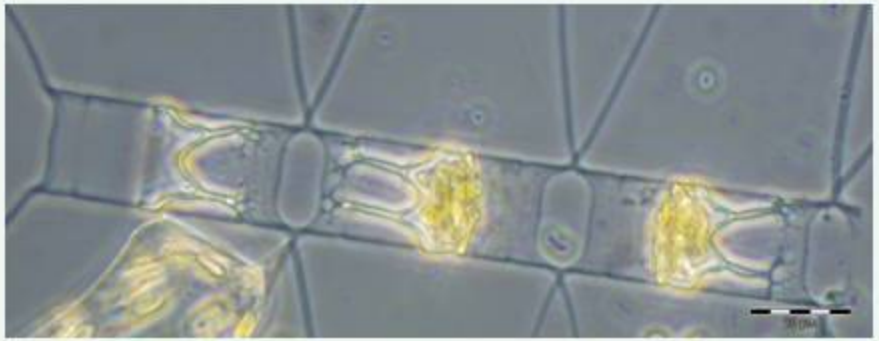
abundance: autumn
life-form: in chains
apical axis: 7 - 80µm



LM (North Sea, URST3)



REM (North Sea, ES1)



LM (North Sea, SWBBA)
resting spores

phytoplankton - bacillariophyceae

Chaetoceros pseudobrevis

abundance: spring, autumn
life-form: in chains
apical axis: 6-20µm

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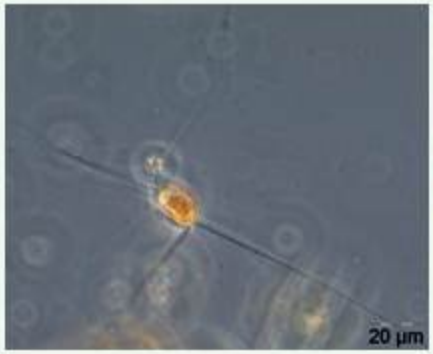
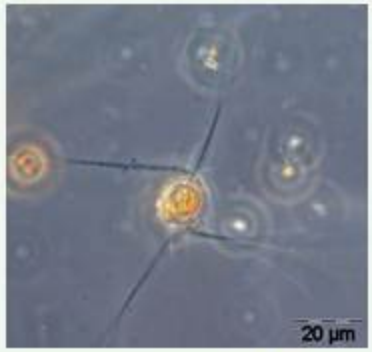
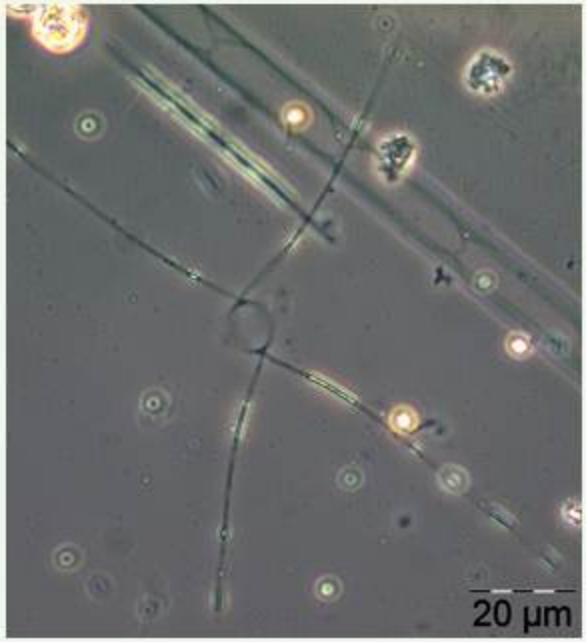
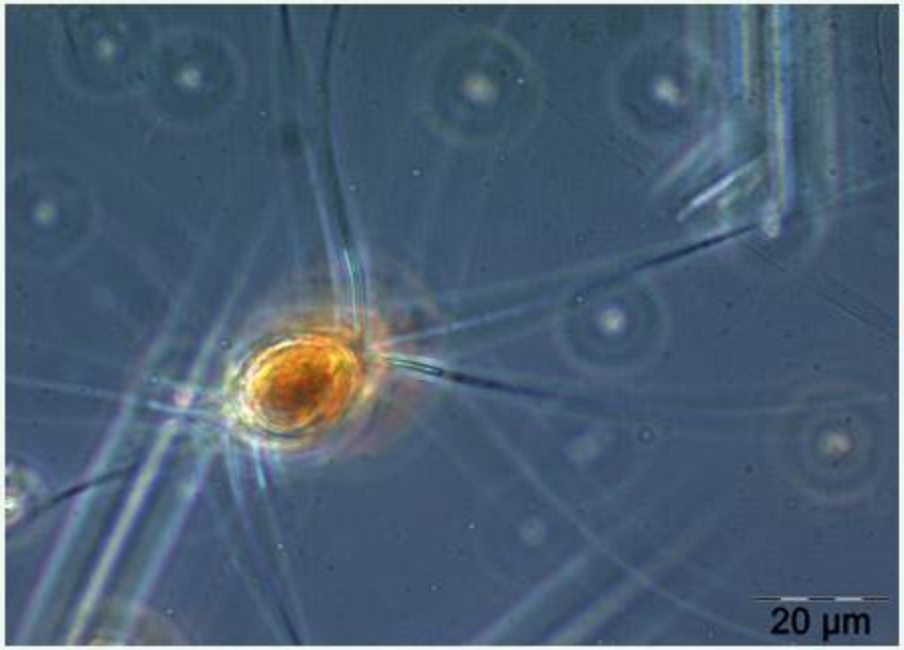


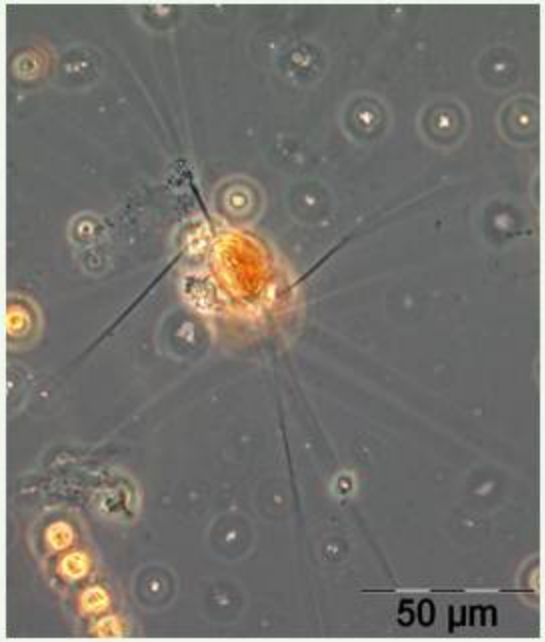




LM (Kiel Bight)



LM (Mecklenburg Bight)

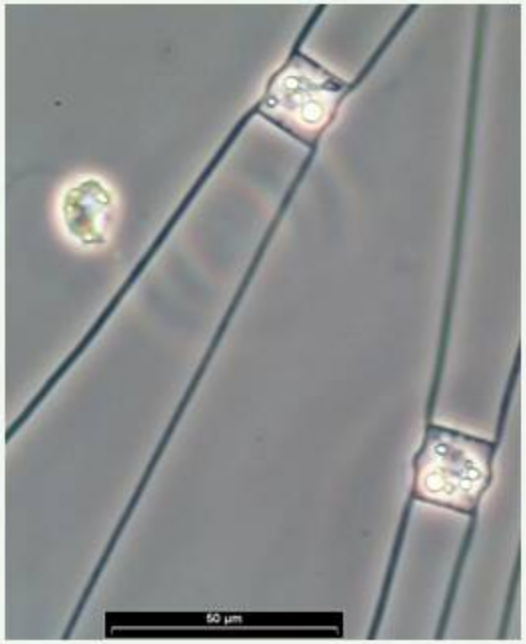


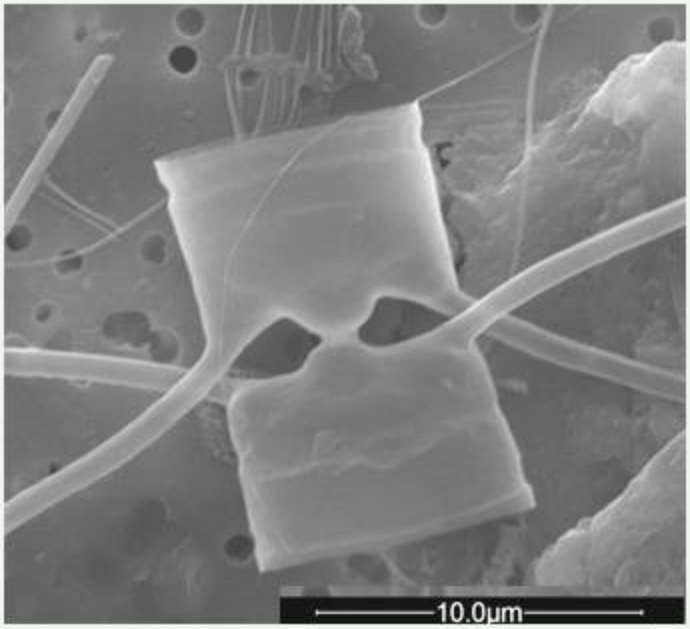
LM (Arkona Basin)

phytoplankton – bacillariophyceae

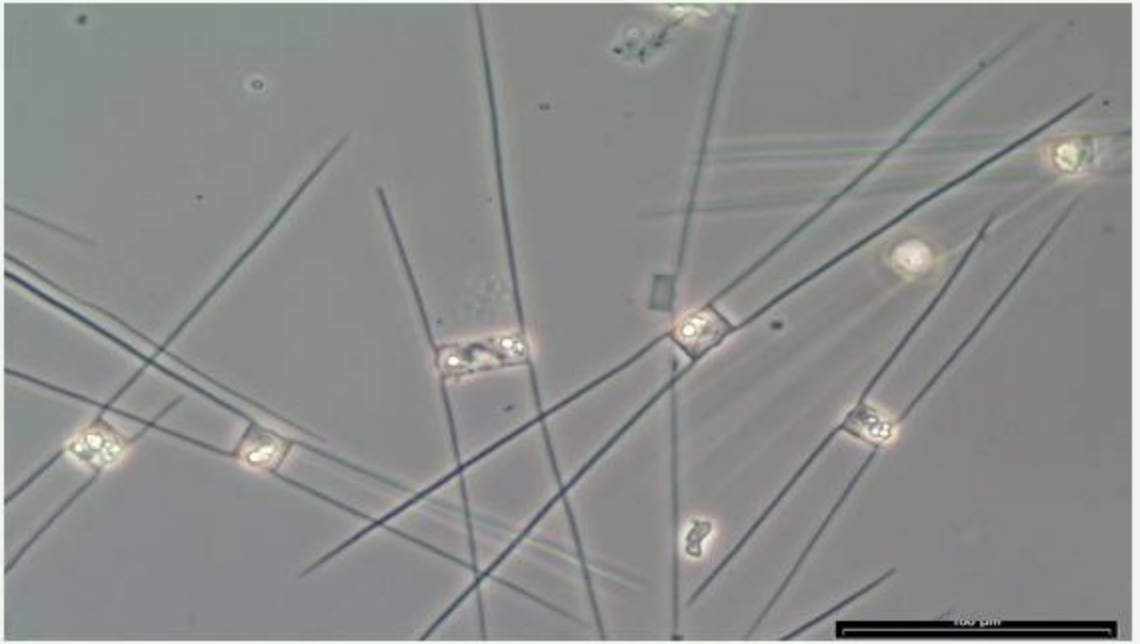
Chaetoceros similis

abundance: summer
life-form: solitary or in short chains
apical-axis: 10 - 20µm





REM (Gotland Sea)

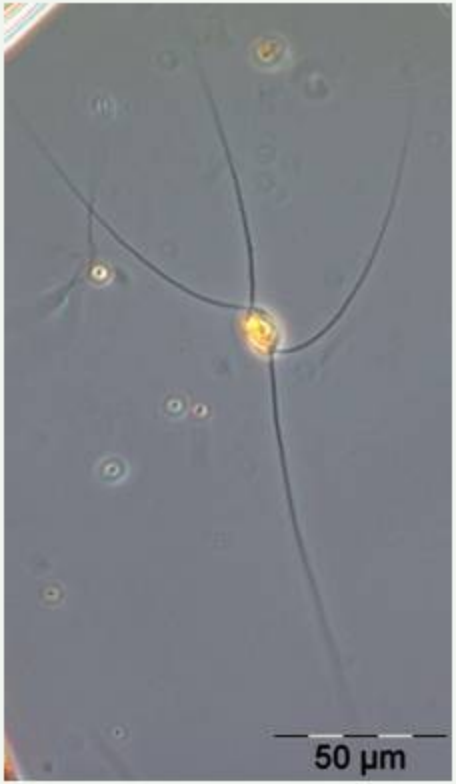


LM (Gotland Sea)

phytoplankton – bacillariophyceae

Chaetoceros socialis

abundance: summer, autumn
life-form: in chains which form spherical colonies
apical-axis: 5 - 16µm

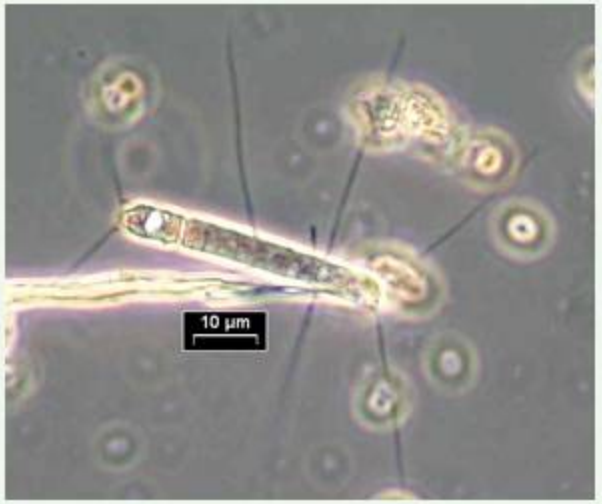


LM (Mecklenburg Bight)

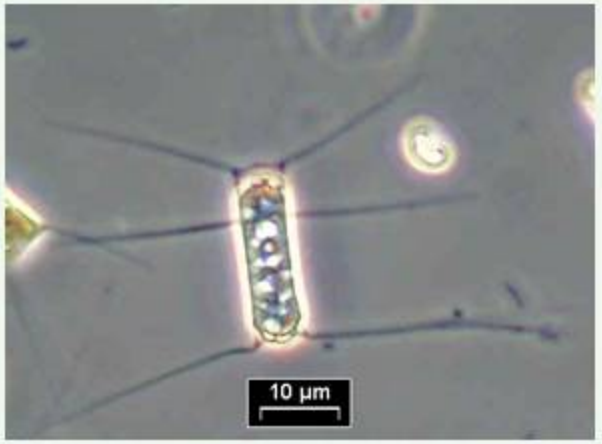
phytoplankton - bacillariophyceae

Chaetoceros subtilis

abundance: spring
life-form: solitary or in short chains
apical axis: 2 - 21µm



resting spores

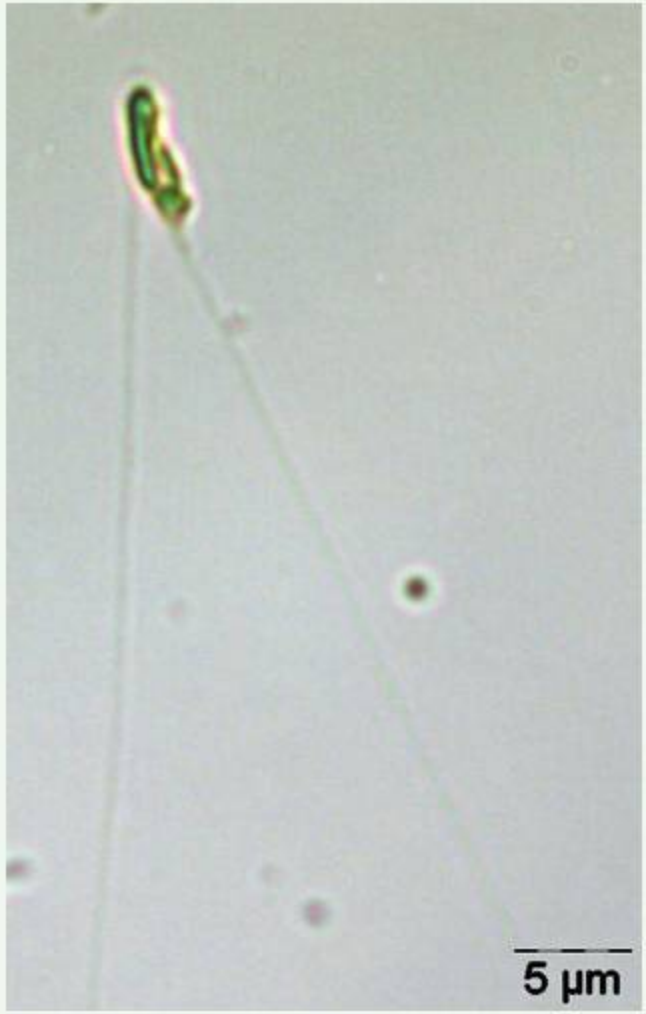


LM (coastal station Heiligendamm)

phytoplankton – bacillariophyceae

Chaetoceros throndsenii

life-form: solitary
apical axis: 1,5 - 5µm
pervalvar axis: 8 – 15 µm

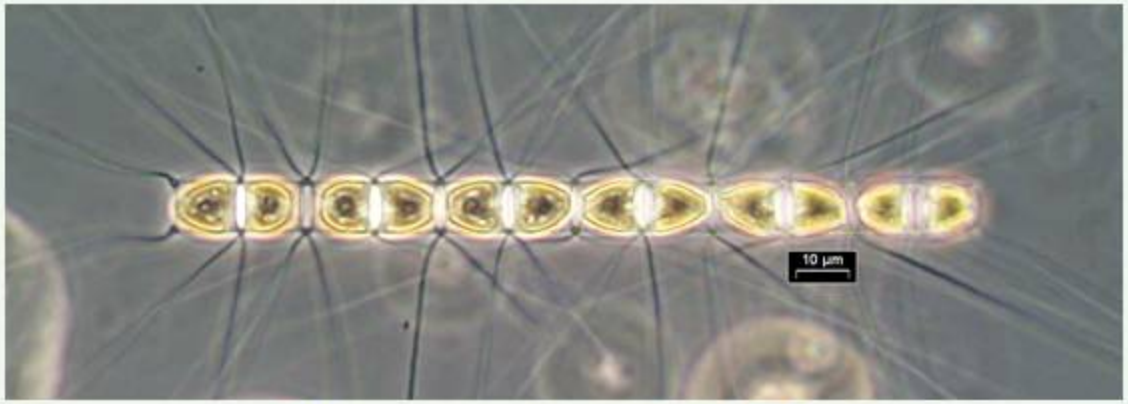


LM (Mecklenburg Bight)

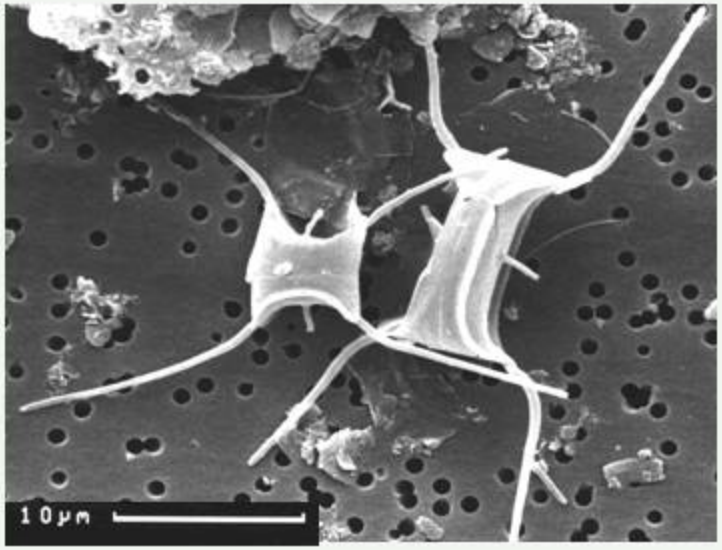
phytoplankton - bacillariophyceae

Chaetoceros wighamii

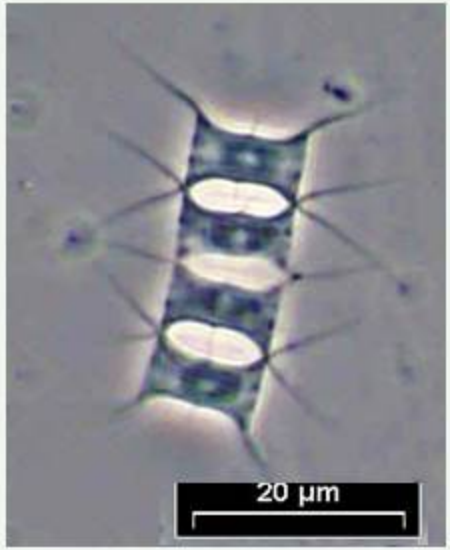
abundance: permanent abundant, maximum in spring
life-form: in short chains
size: 5 -25µm (apical axis)
5 -10µm (pervalvar axis)

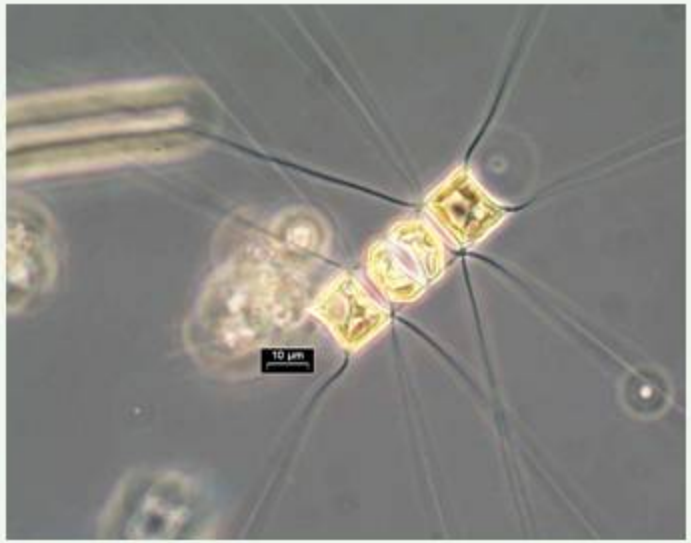


LM (coastal station Heiligendamm)



REM (Gotland Sea, sediment trap)





LM (Gotland, sediment trap)

phytoplankton - bacillariophyceae

Corethron histrix

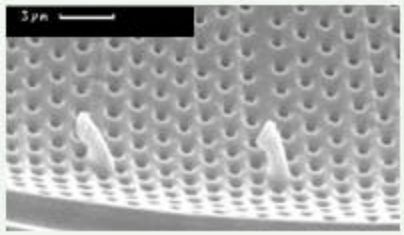
abundance: all year
life-form: single cells
apical axis: 12-38µm

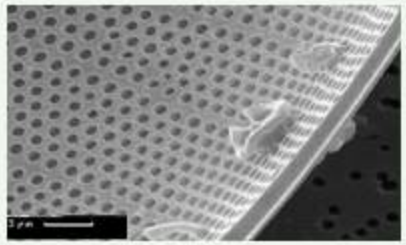
LM (North Sea, DTEND)

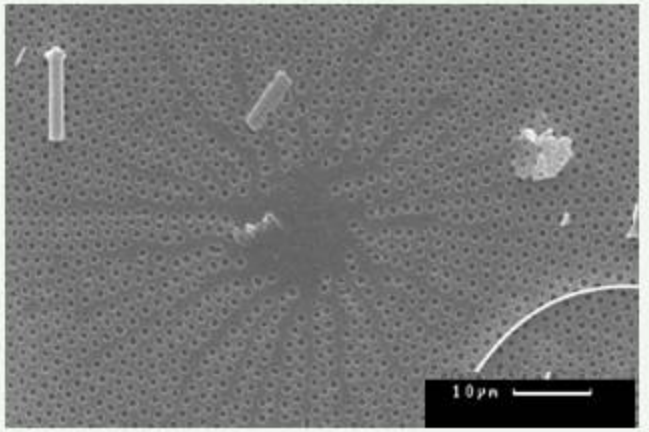
phytoplankton - bacillariophyceae

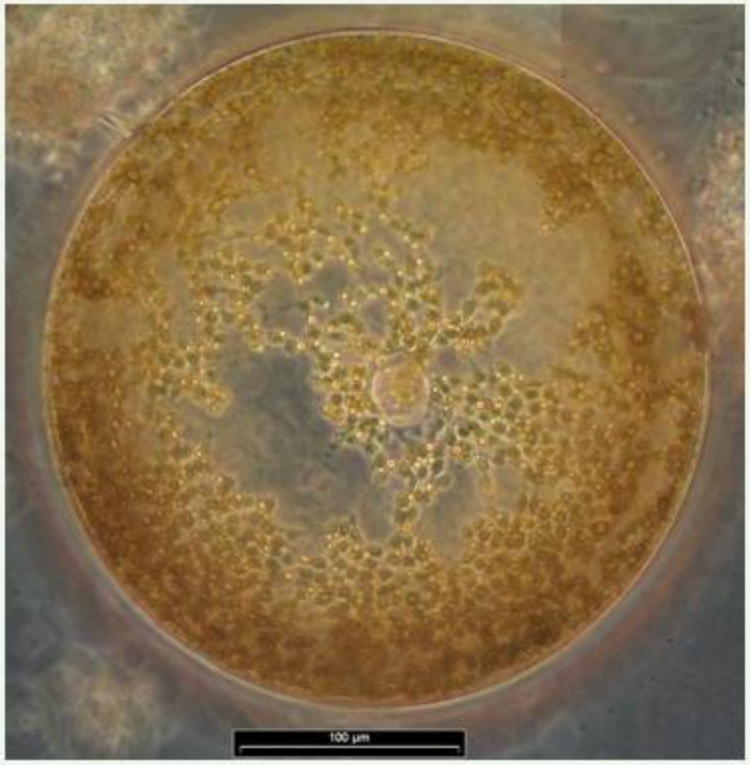
Coscinodiscus concinnus

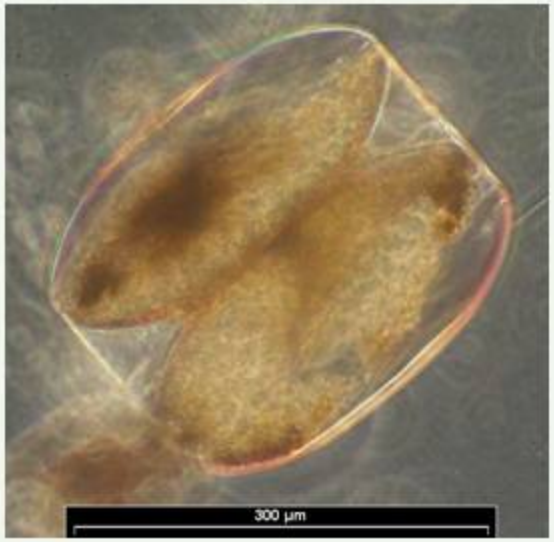
abundance: spring
life-form: solitary
diameter: 110 – 460µm

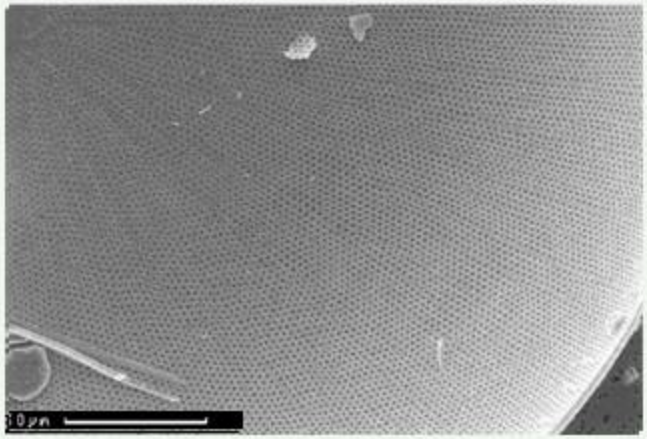












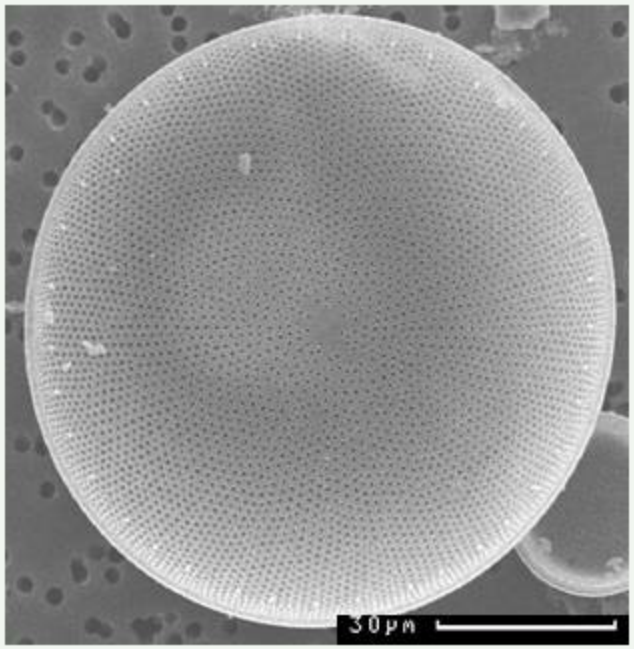
LM (coastal station Heiligendamm)

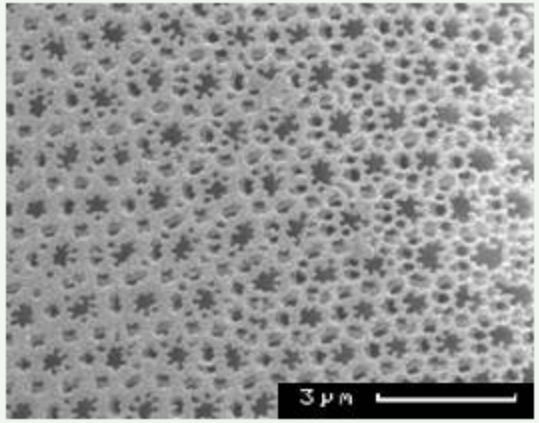
REM (coastal station Heiligendamm)

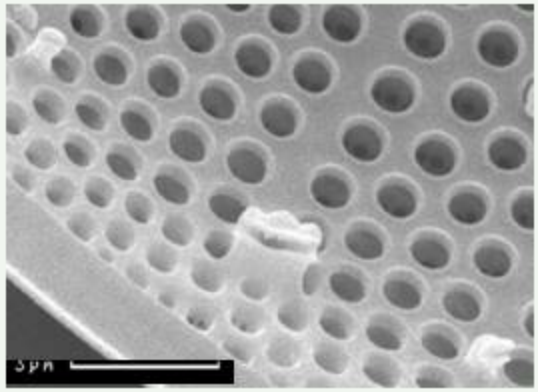
phytoplankton - bacillariophyceae

Coscinodiscus granii

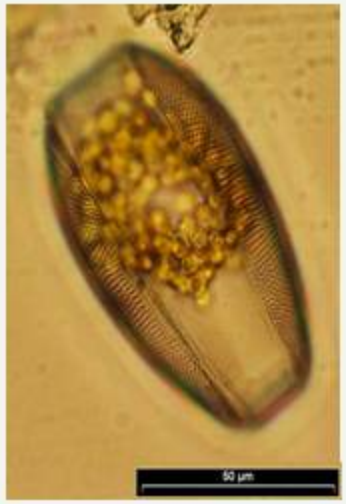
abundance: autumn
life-form: solitary
diameter: 70 - 150 µm

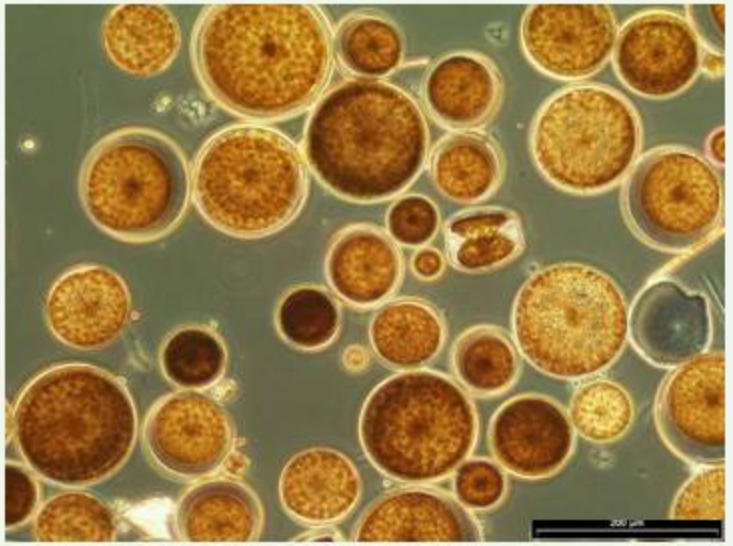






REM (Gotland Sea, sediment trap)



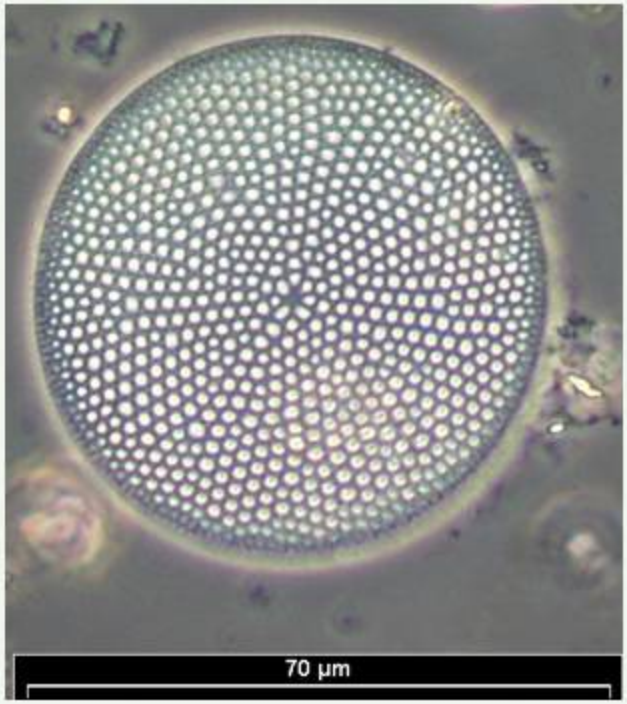


LM (coastal station Heiligendamm)

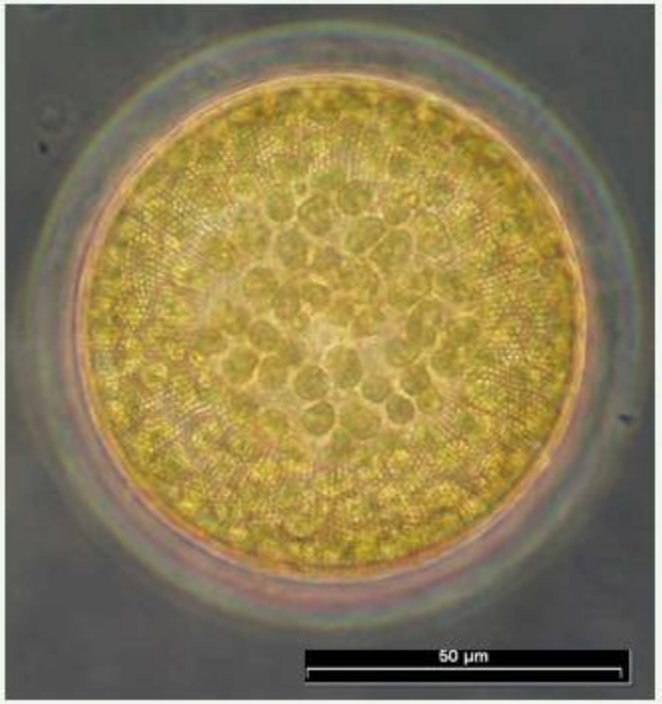
phytoplankton – bacillariophyceae

Coscinodiscus radiatus

abundance: spring, summer
life-form: solitary
diameter: 30 -180 µm



LM (coastal station Heiligendamm)



LM (North Sea, Skagerak)

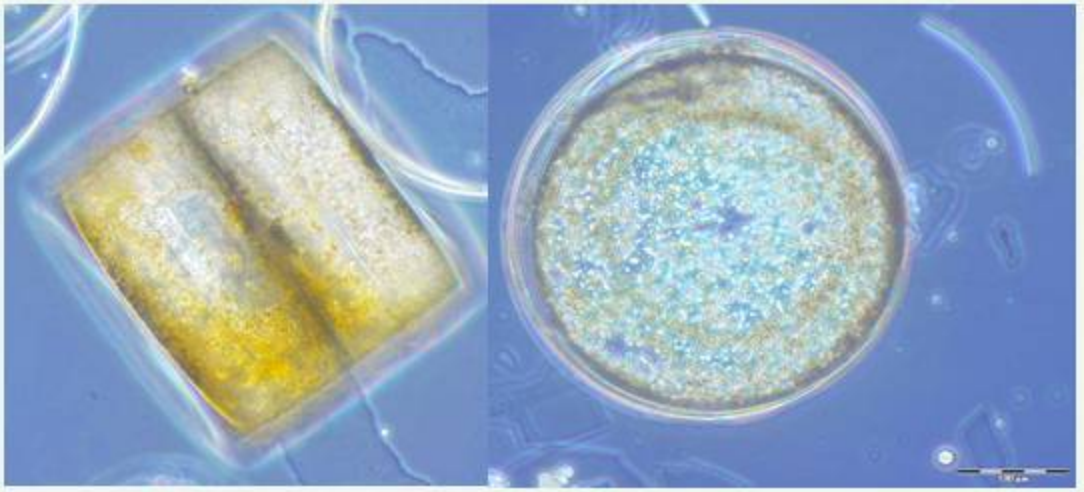
phytoplankton - bacillariophyceae

Coscinodiscus wailesii

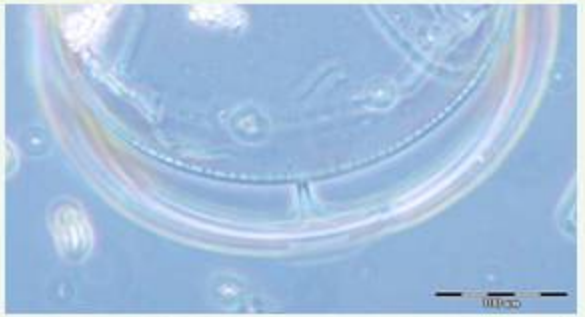
abundance: autumn

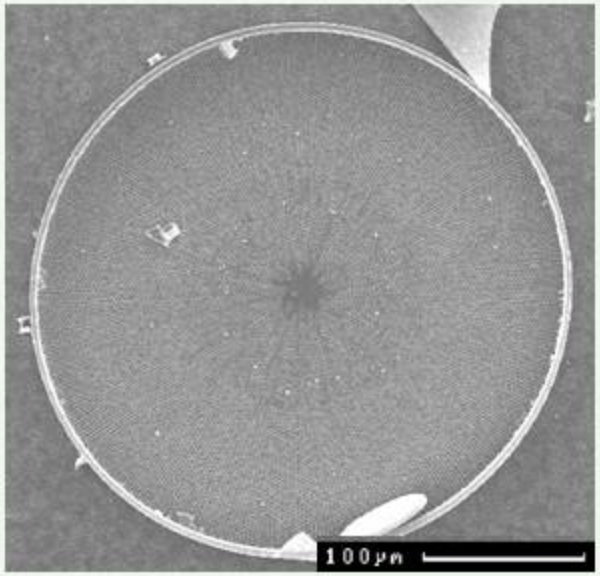
life-form: solitary

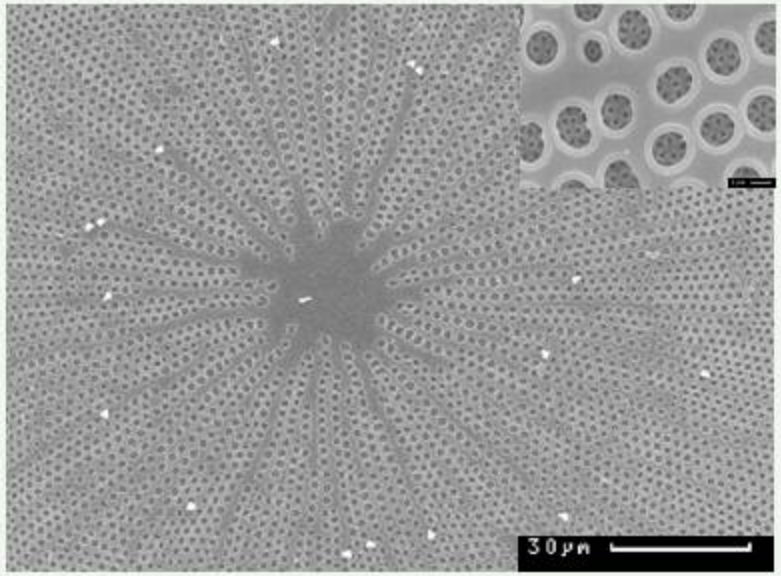
diameter: 280 – 500 µm



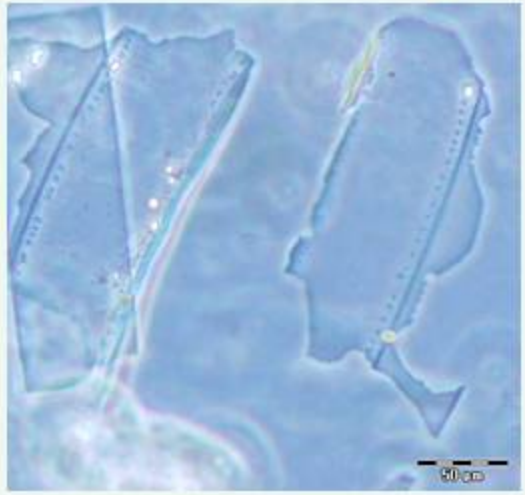
LM (Namibia)







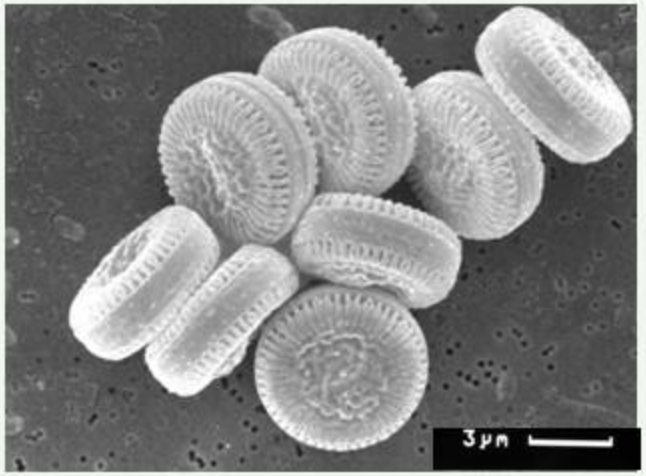
REM (coastal station Heiligendamm)

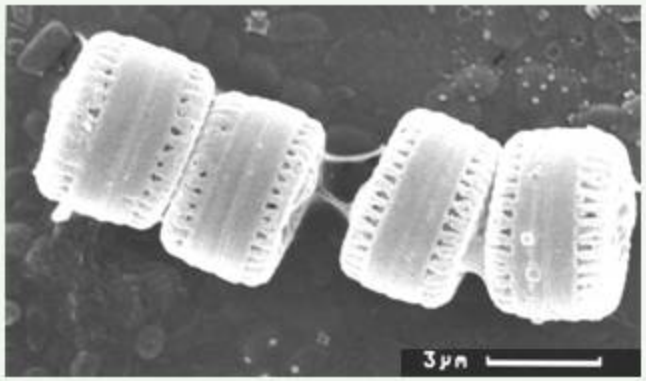


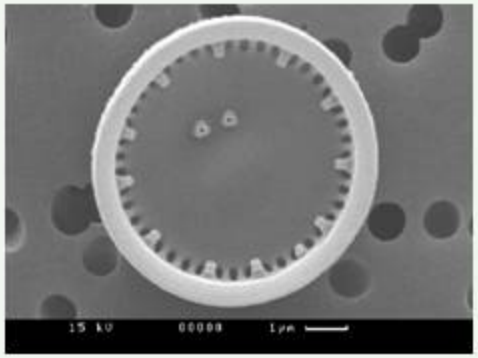
phytoplankton - bacillariophyceae

Cyclotella choctawhatcheeana

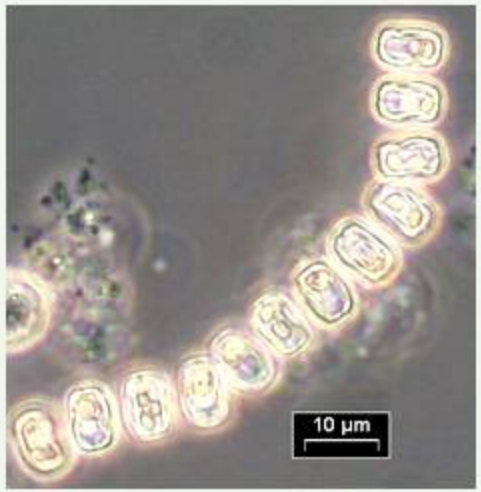
abundance: late summer, autumn
life-form: solitary or in short chains
size: 6 - 9 µm



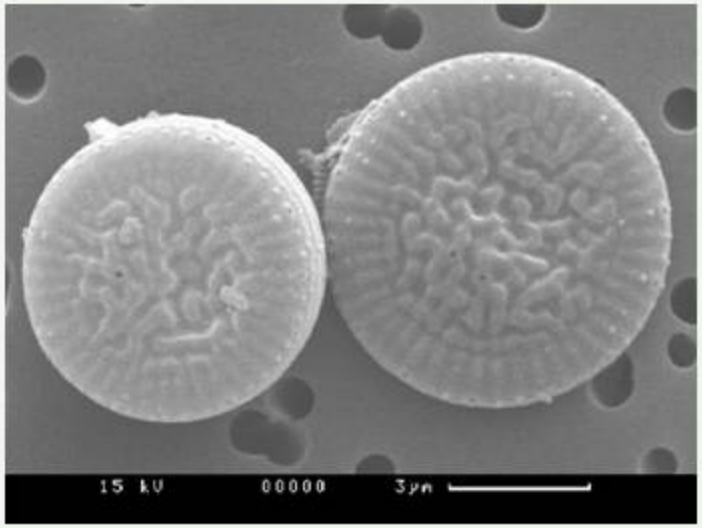




REM (Gotland Sea)



LM (Gotland Sea, sediment trap)



phytoplankton - bacillariophyceae

Cyclotella distinguenda

abundance: autumn, winter
life-form: solitary
diameter: 6 – 35µm

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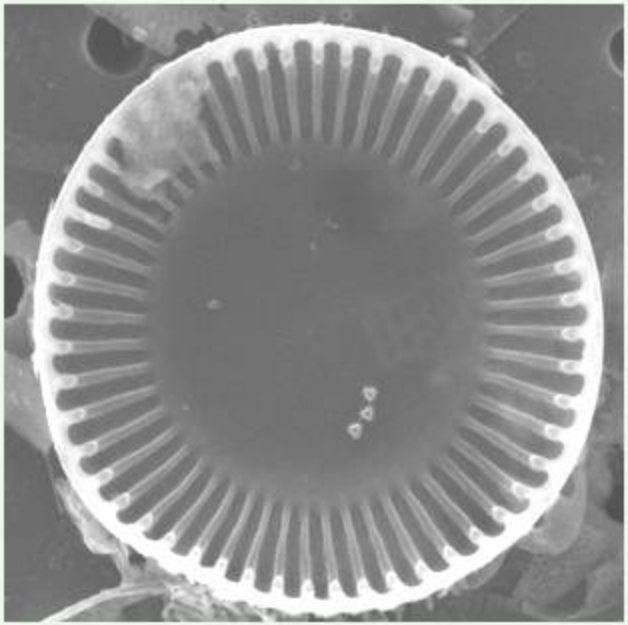
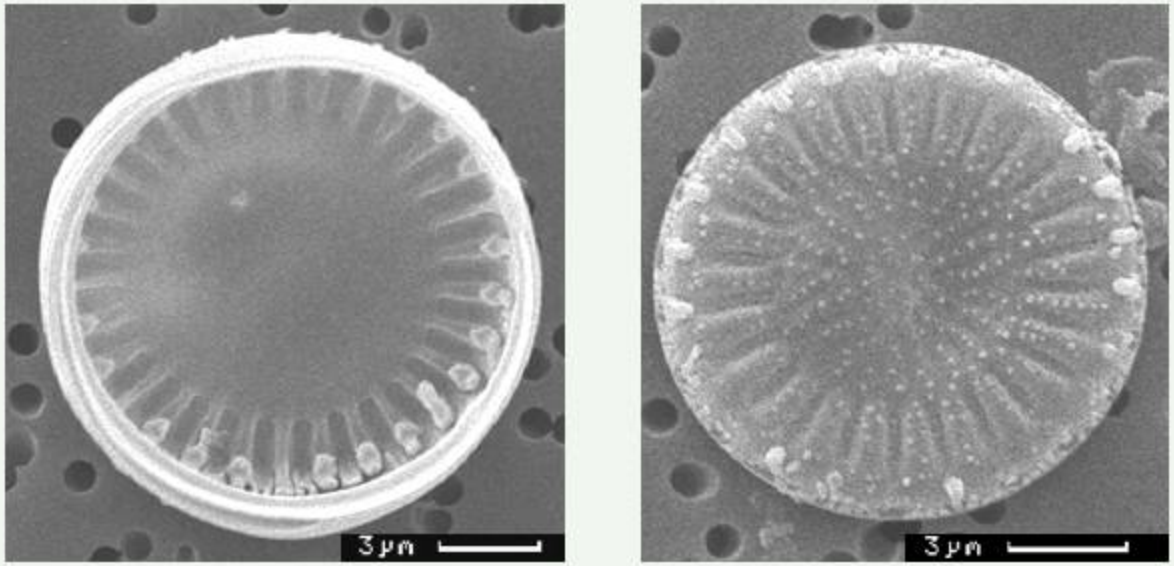


REM (Mecklenburg Bight)

phytoplankton - bacillariophyceae

Cyclotella meneghiniana

abundance: autumn, winter
life-form: solitary
diameter: 12 – 34µm

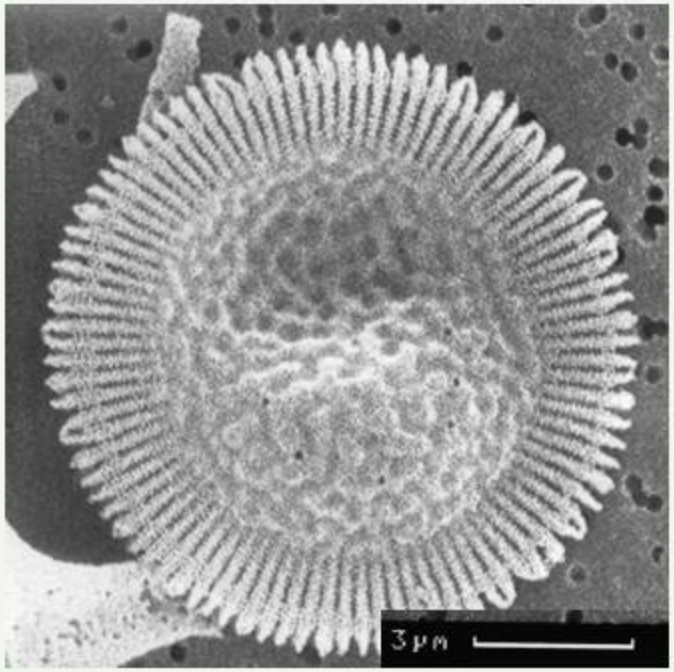


REM (Mecklenburg Bight)

phytoplankton - bacillariophyceae

Cyclotella striata

abundance: autumn, winter
life-form: solitary
diameter: 25 – 48µm

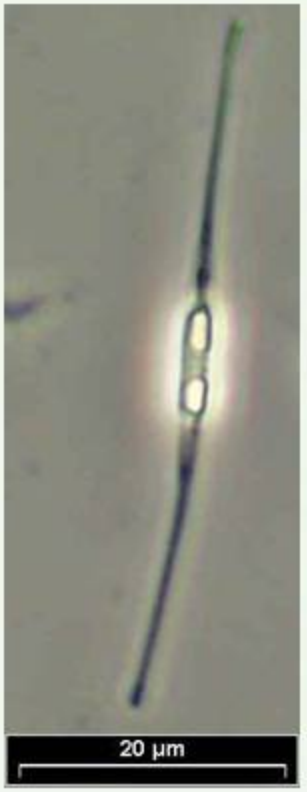


REM (Mecklenburg Bight)

phytoplankton - bacillariophyceae

Cylindrotheca closterium

abundance: permanent abundant
life-form: solitary
length: 30 - 105µm
width: 1,5 - 5µm



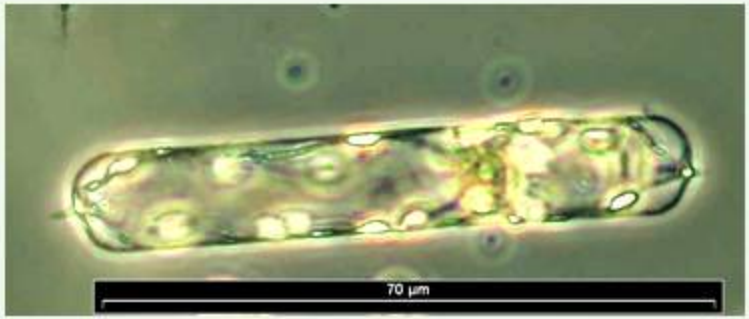
LM (coastal station Heiligendamm)

LM (Gotland Sea, sediment trap)

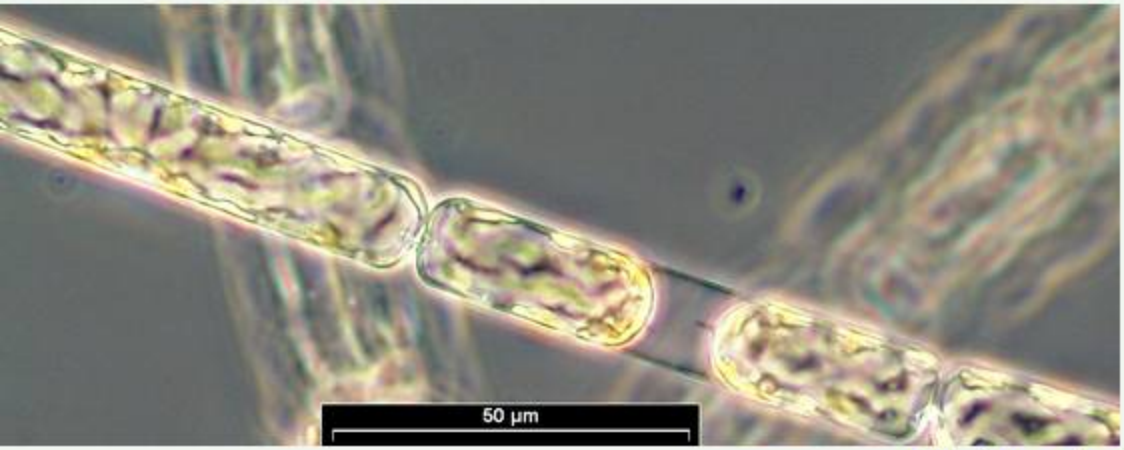
phytoplankton – bacillariophyceae

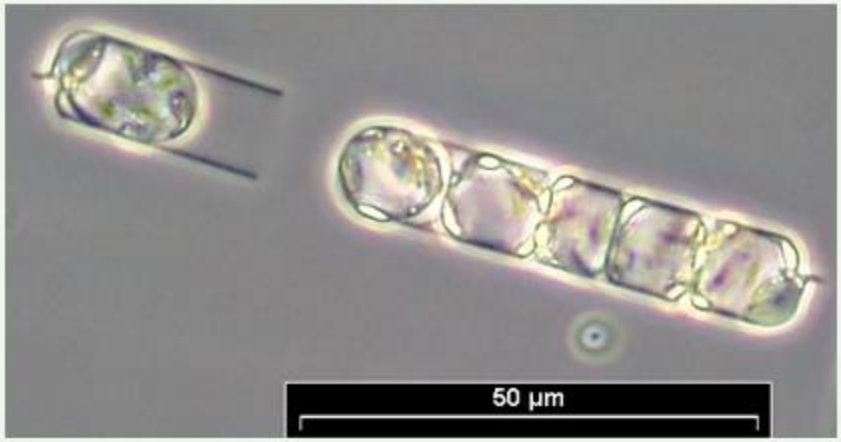
Dactyliosolen fragilissimus

life-form: in loose chains
diameter: 8 – 70 µm
pervalvar axis: 42 – 300 µm



preserved with Lugol´s solution



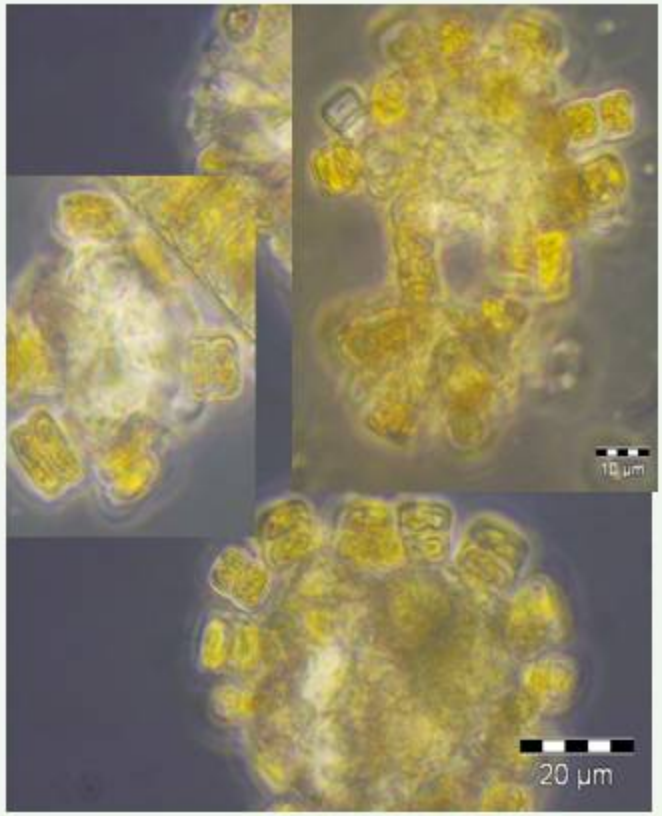


LM (coastal station Heiligendamm)

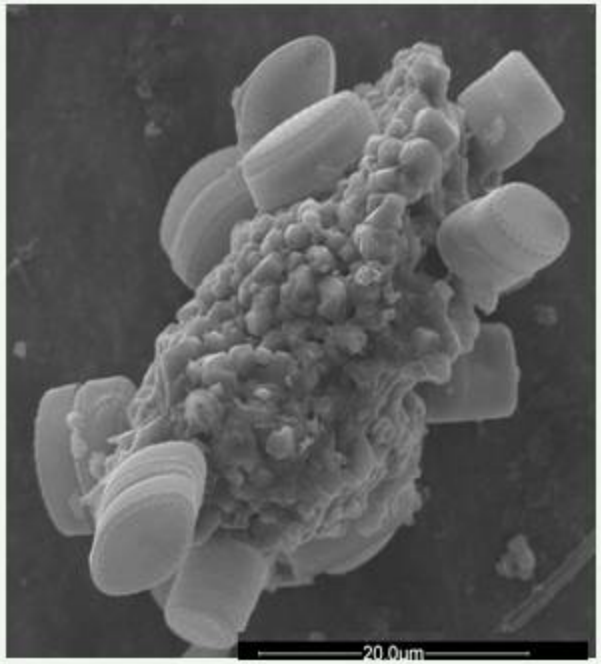
phytoplankton - bacillariophyceae

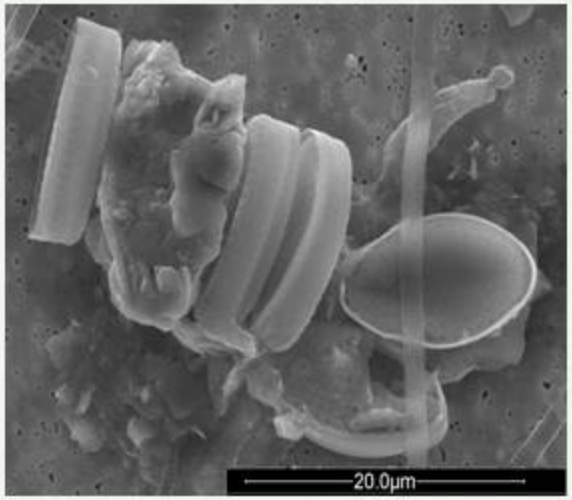
Delphineis surirella

abundance: all year
life-form: in colonies or solitary, often attached to sand grains
apical axis: 10-50µm



LM (North Sea, DTEND)





REM (North Sea, SYLT1, NSB3)

phytoplankton - bacillariophyceae

Detonula confervacea

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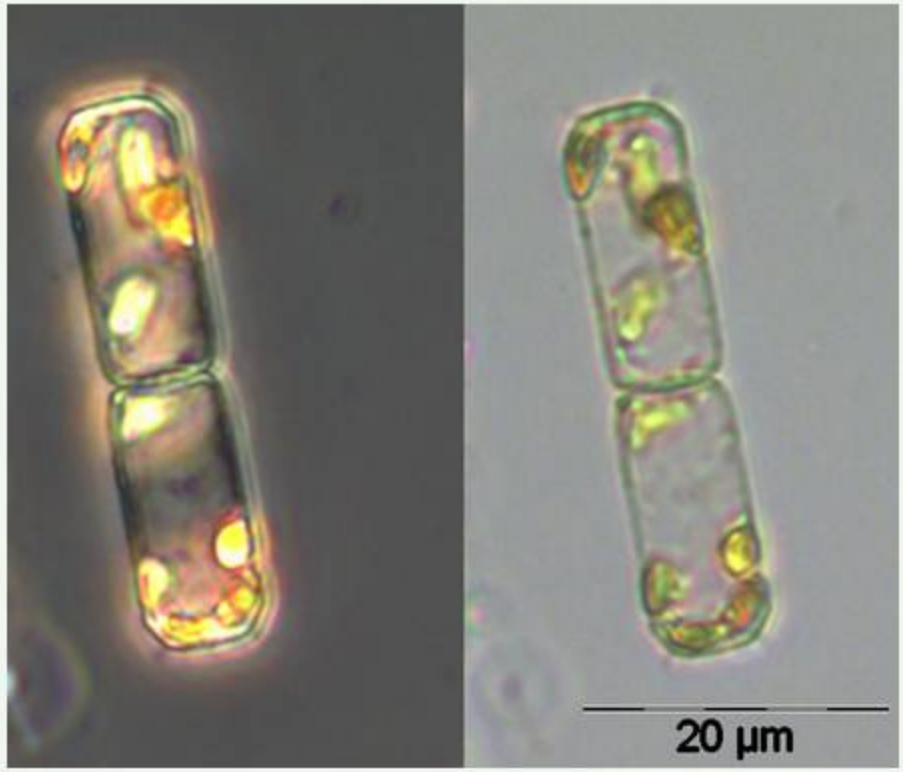
life-form: in chains
cell diameter: 6– 20 µm
pervalvar axis: 15 –30 µm

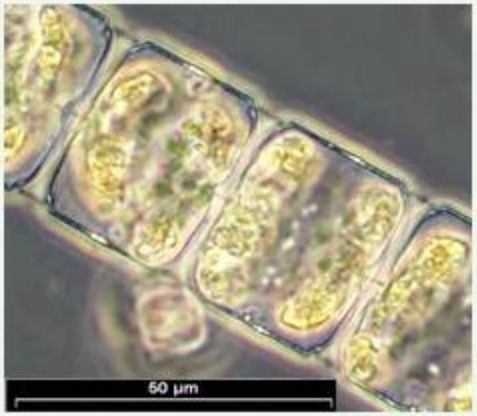


LM (Mecklenburg Bight)

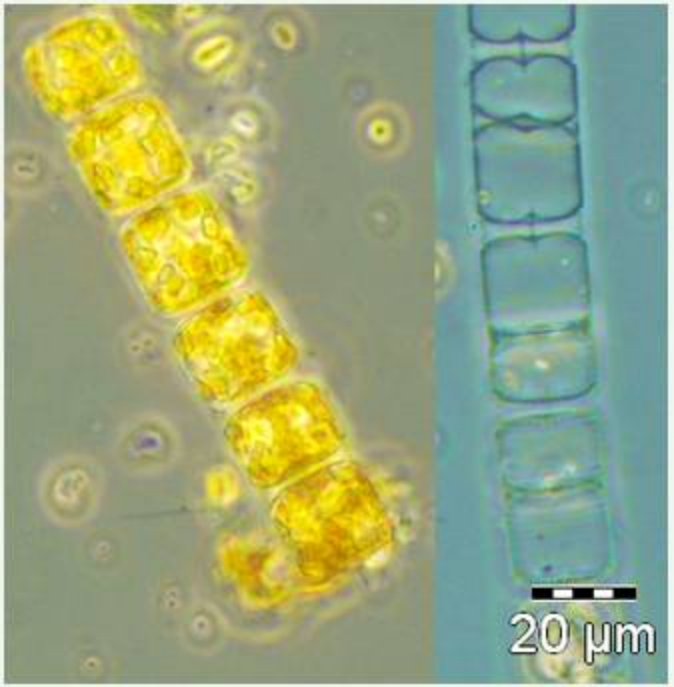
phytoplankton - bacillariophyceae

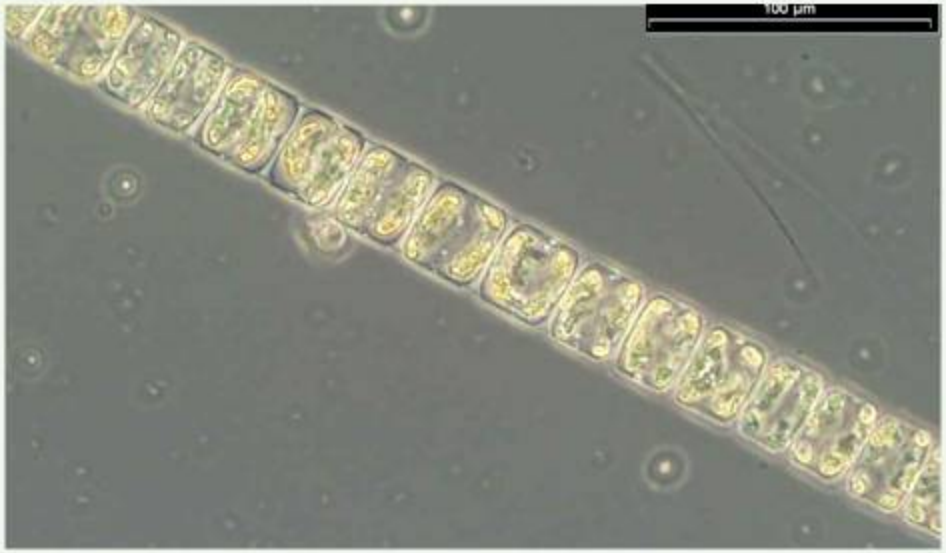
Detonula pumila

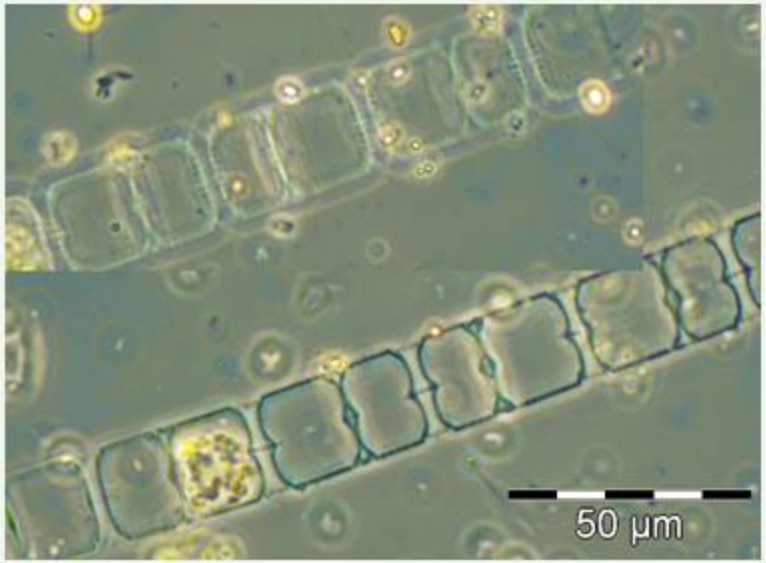
abundance: summer, autumn
life-form: in chains
diameter: 17 - 46µm



LM (North Sea, HELGO)







phytoplankton – bacillariophyceae

Diatoma tenue C.Agardh

abundance: spring
life-form: solitary or in chains
cell-length: 40 - 120 µm
cell-width: 2 - 4 µm

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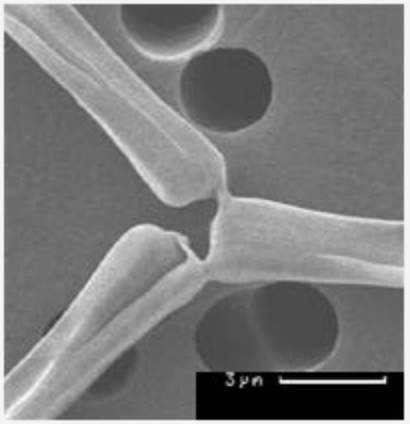
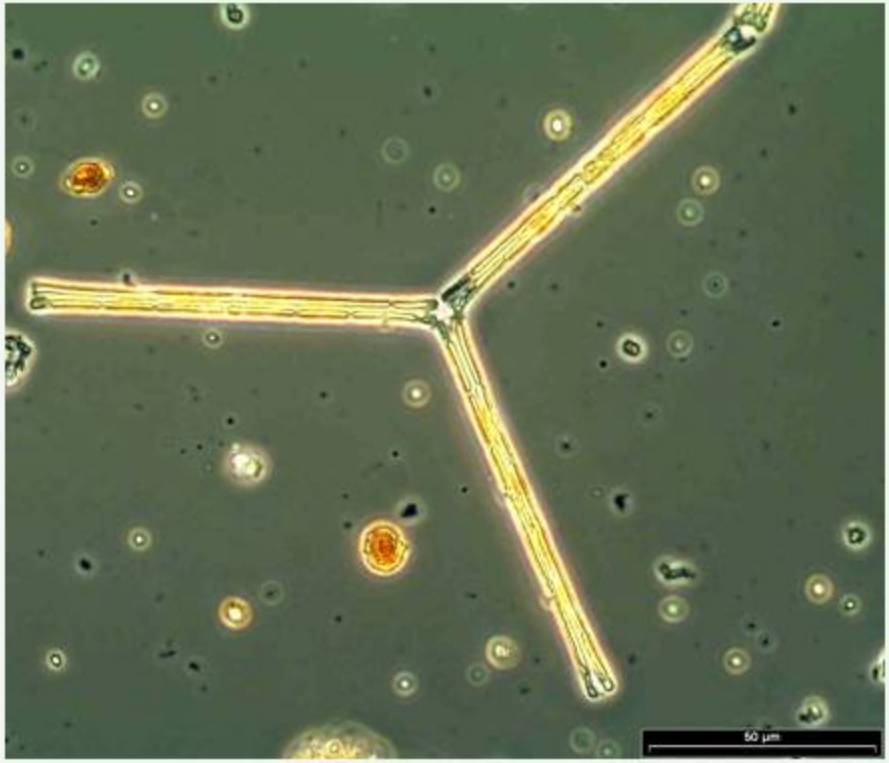
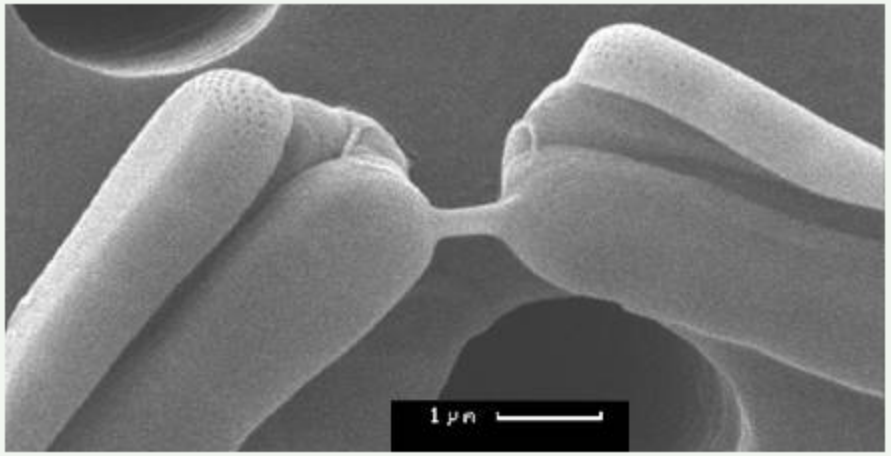
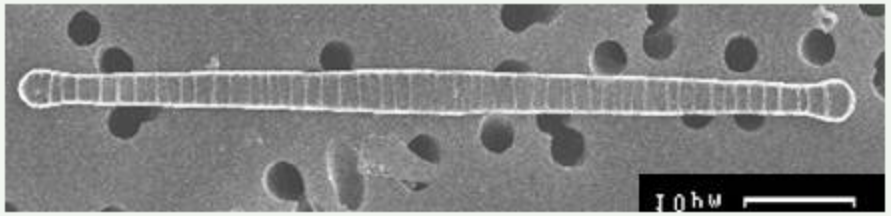




LM (coastal station Heiligendamm)



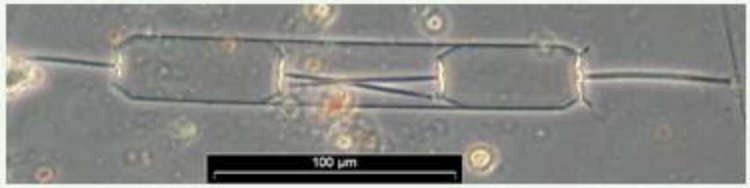


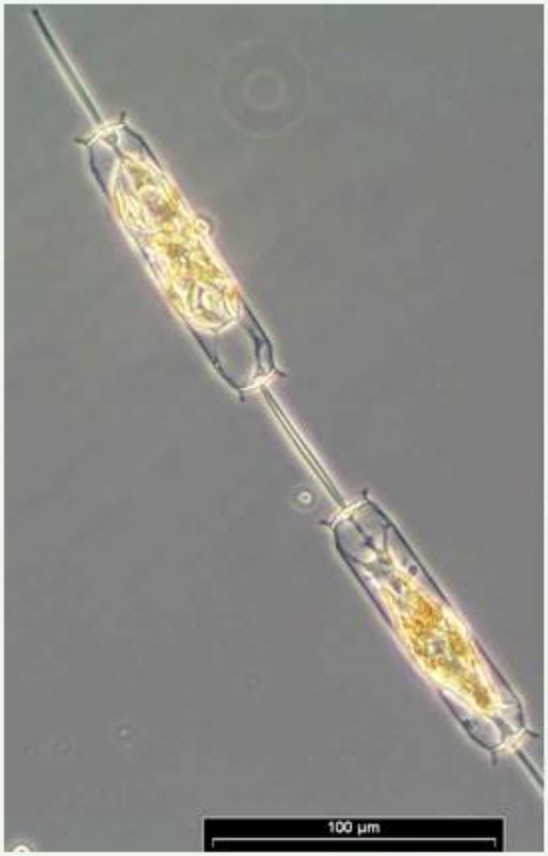
REM (coastal station Heiligendamm)

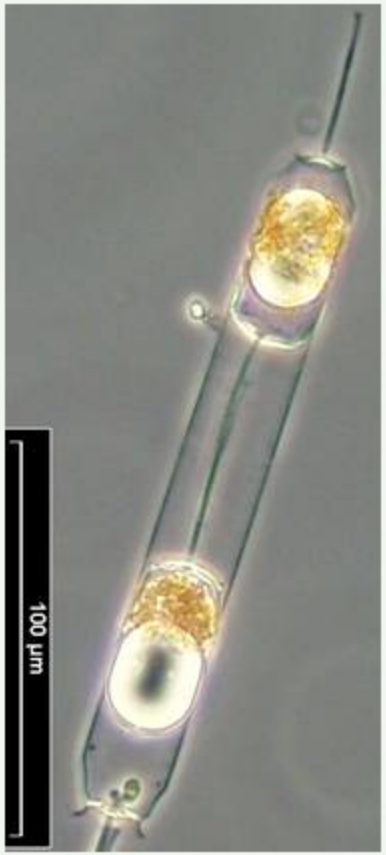
phytoplankton - bacillariophyceae

Ditylum brightwellii

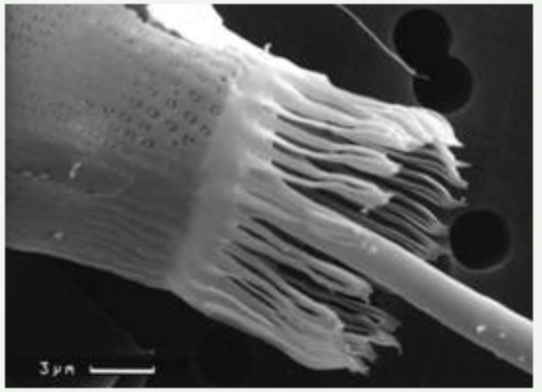
abundance: permanent abundant
life-form: cells solitary
diameter: 25 - 100µm

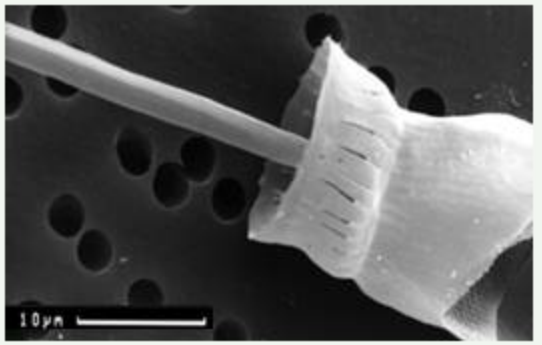






LM (coastal station Heiligendamm)





REM (coastal station Heiligendamm)

phytoplankton – bacillariophyceae

Eucampia zoodiacus

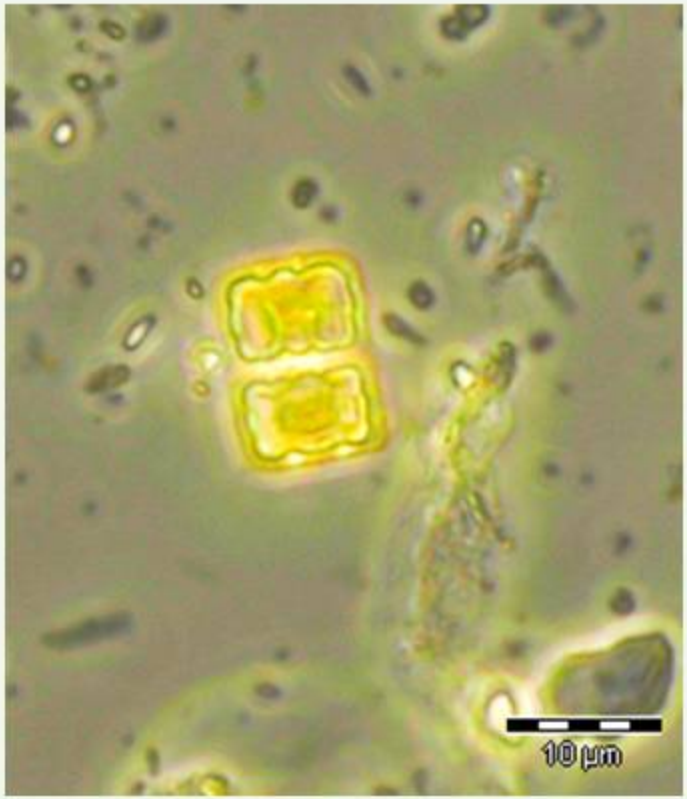
abundance: late spring, summer, autumn
life-form: in chains, often helically curved
apical axis: 10 - 100 µm

LM (North Sea , German Bight)

phytoplankton - bacillariophyceae

Eunotogramma dubium

abundance: all year
life-form: solitary or in short chains
length: 6-18µm
width: 3-5µm

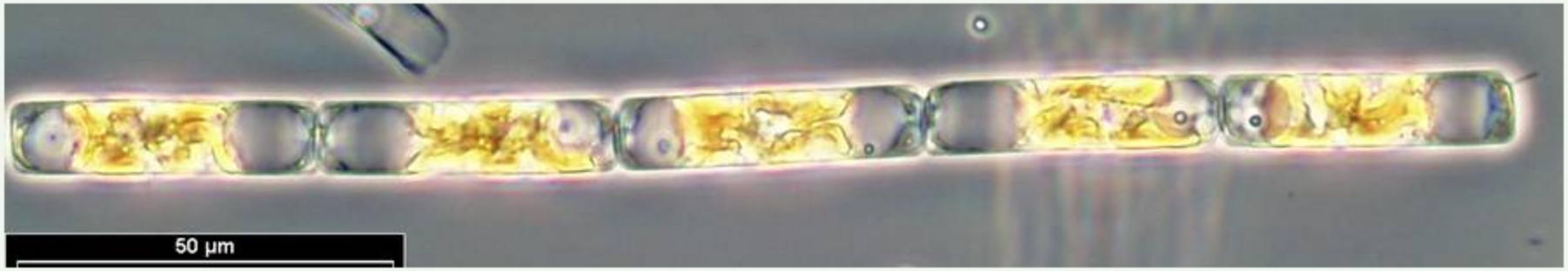


LM (North Sea, ES1)

phytoplankton - bacillariophyceae

Guinardia delicatula

abundance: spring, summer
life-form: in closed chains
diameter: 10 - 50µm

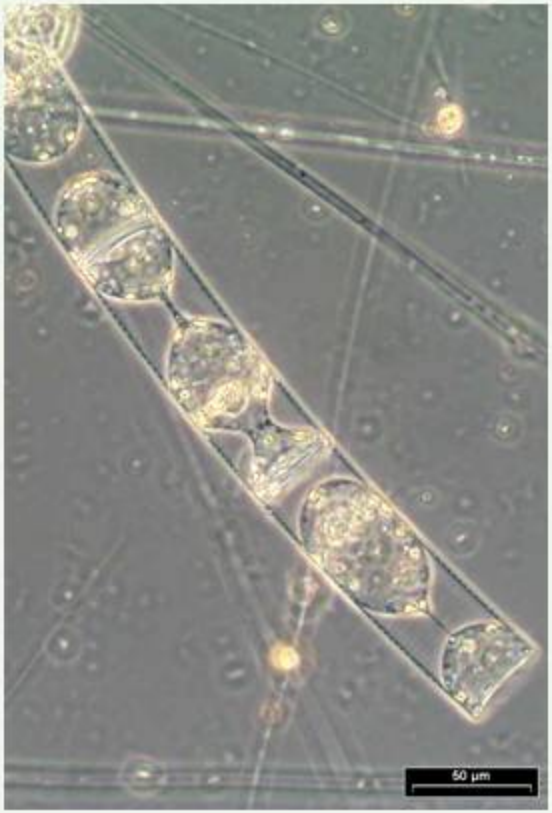


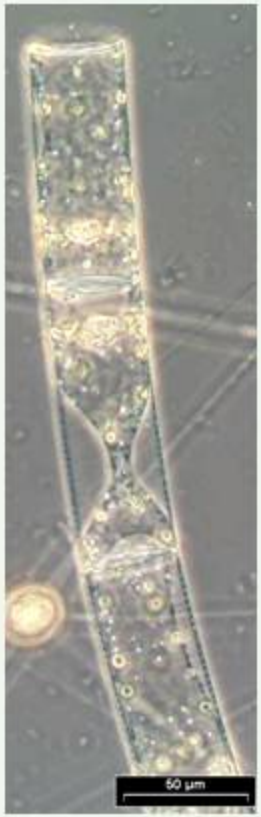
LM (coastal station Heiligendamm)

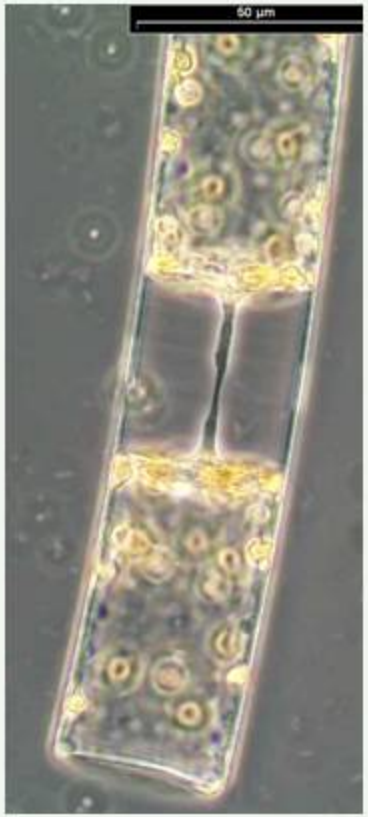
phytoplankton -bacillariophyceae

Guinardia flaccida

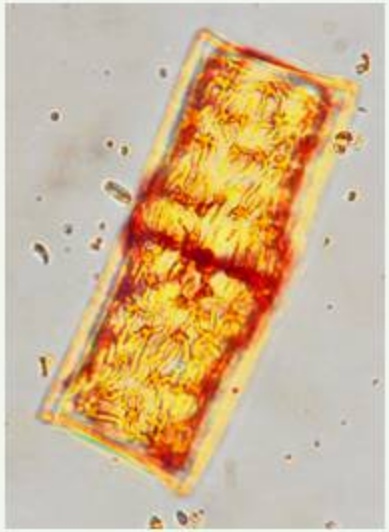
abundance: summer, autumn
life-form: in chains
diameter: 24 - 60µm
pervalvar-axis: 80 - 155µm







LM (coastal station Heiligendamm)



Lugol fixed

phytoplankton – bacillariophyceae

Guinardia striata

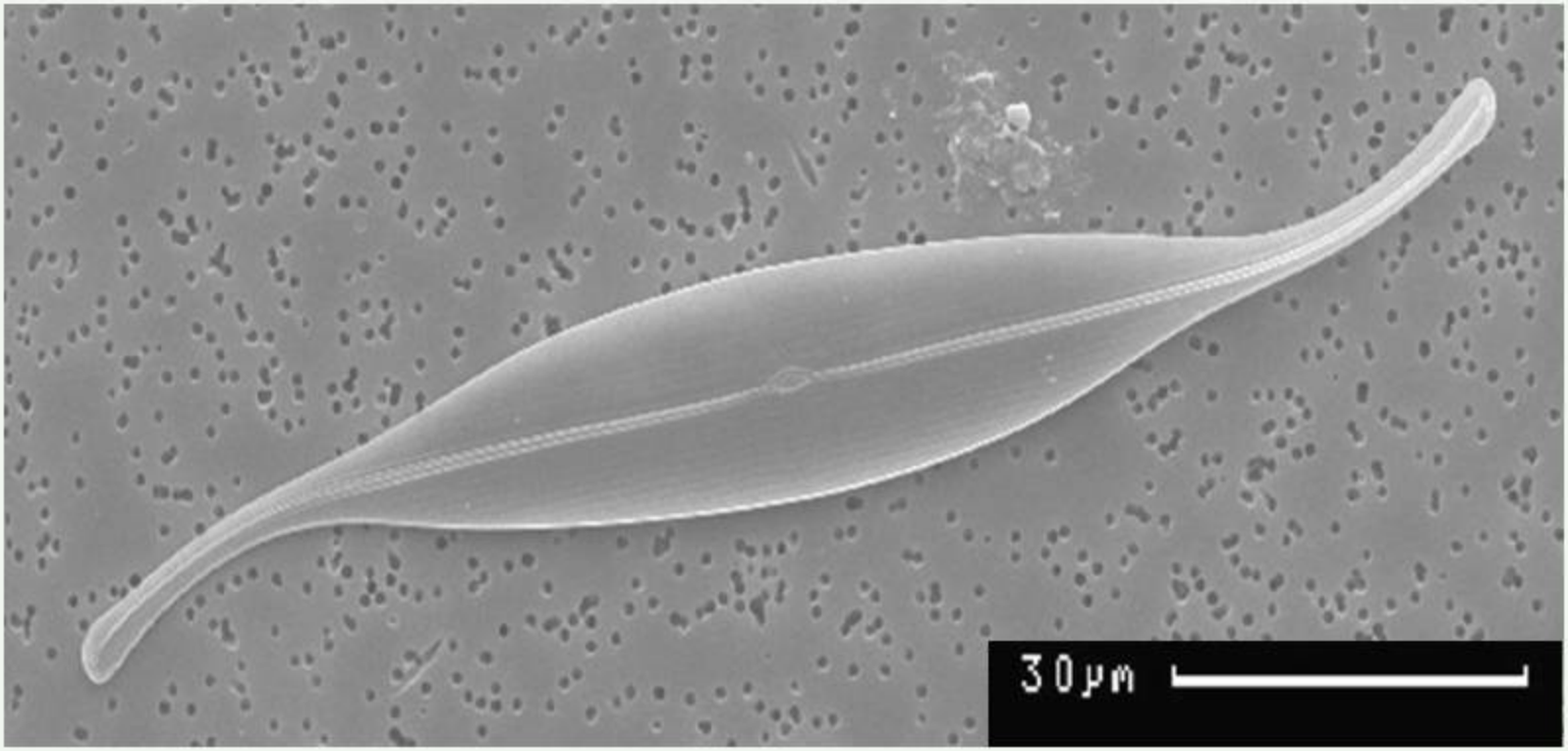
abundance: summer, autumn
life-form: in close set curved, often spiraling chains
diameter: 6 - 50 µm

LM (North Sea, German Bight)

phytoplankton - bacillariophyceae

Gyrosigma sp.

abundance: autumn, winter
life-form: solitary
cell-length: 130µm
cell-width: 20µm



REM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Helicotheca tamesis

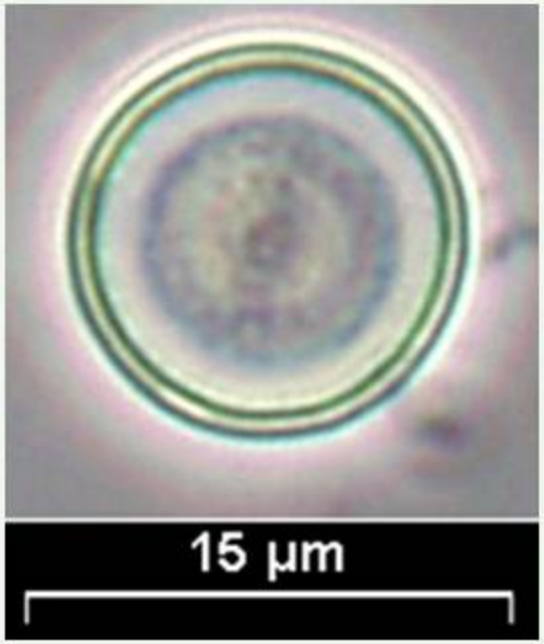
abundance: autumn
life-form: in chains
pervalvar axis: 56-120µm
apical axis: 26-160µm

LM (North Sea, NEFB)

phytoplankton - bacillariophyceae

Hyalodiscus scoticus

abundance: autumn, winter
life-form: ephiphytc, cells attached to the substratum by thick mucilage pads
diameter: 15 – 32µm

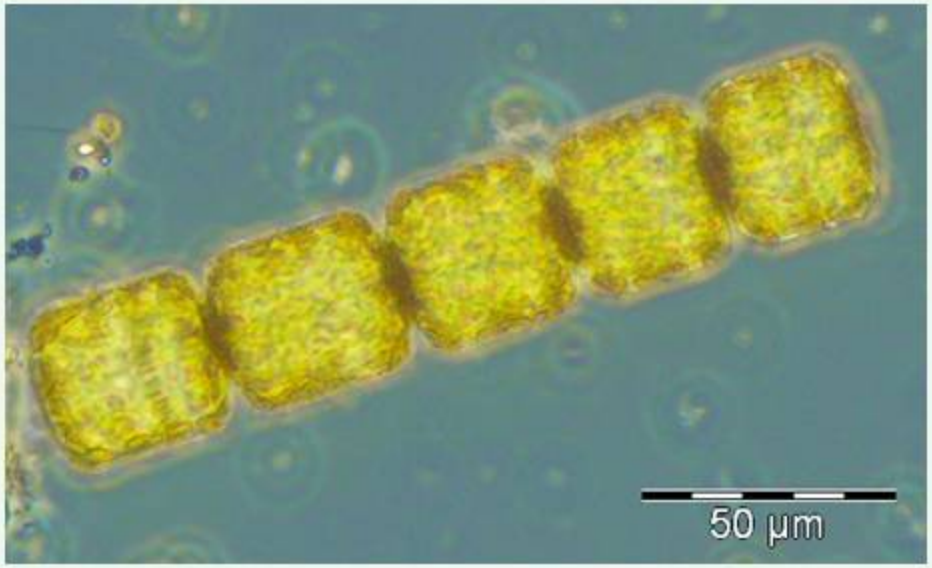


LM (Mecklenburg Bight)

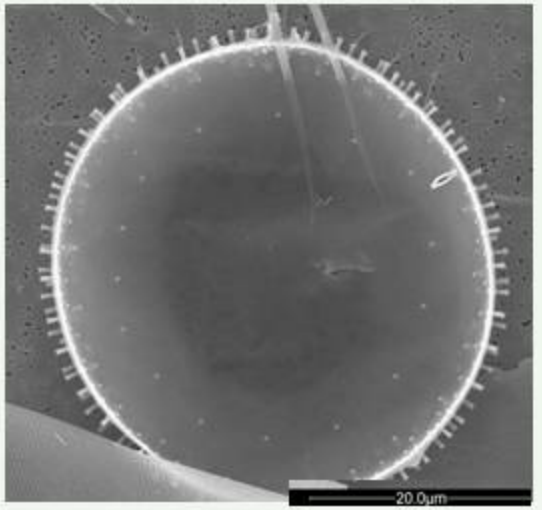
phytoplankton - bacillariophyceae

Lauderia annulata

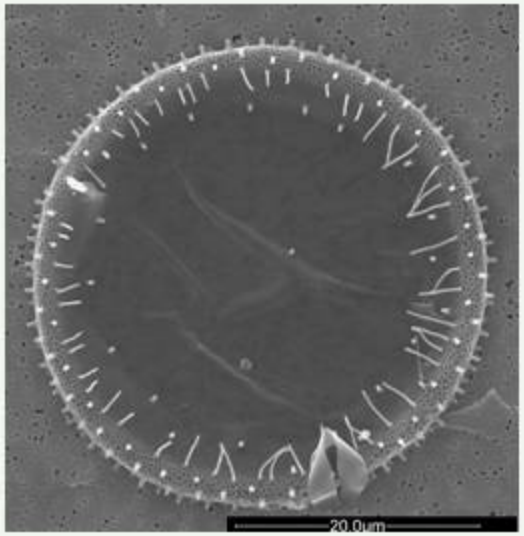
abundance: spring,summer
life-form: in chains
diameter: 20-60µm



LM (North Sea, HELGO)



valve interior

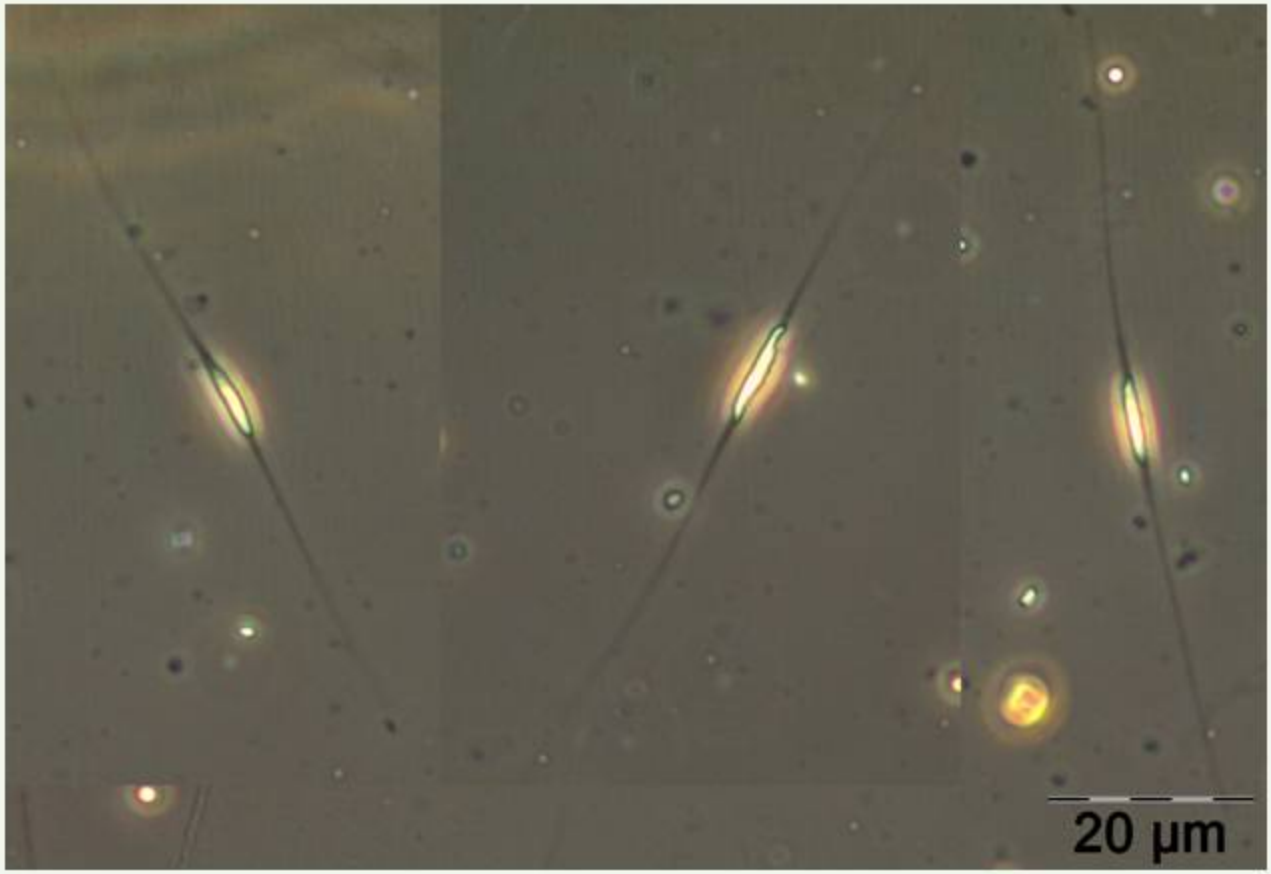


valve exterior
REM (North Sea, SWWBA)

phytoplankton - bacillariophyceae

Lennoxia faveolata

life-form: solitary
length: 55-74µm
width: 1-2µm

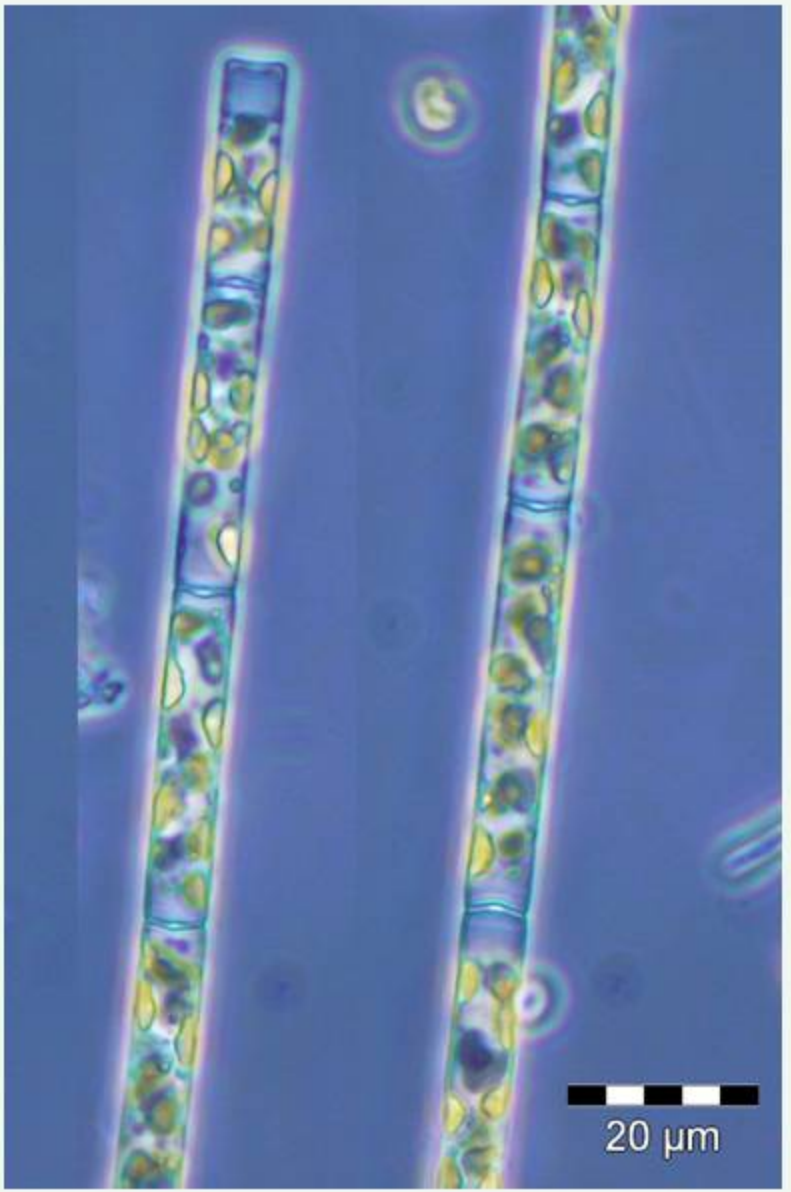


LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Leptocylindrus danicus

abundance: spring, summer, autumn
life-form: in straight chains
apical-axis: 5 - 15µm



LM (Mecklenburg Bight)

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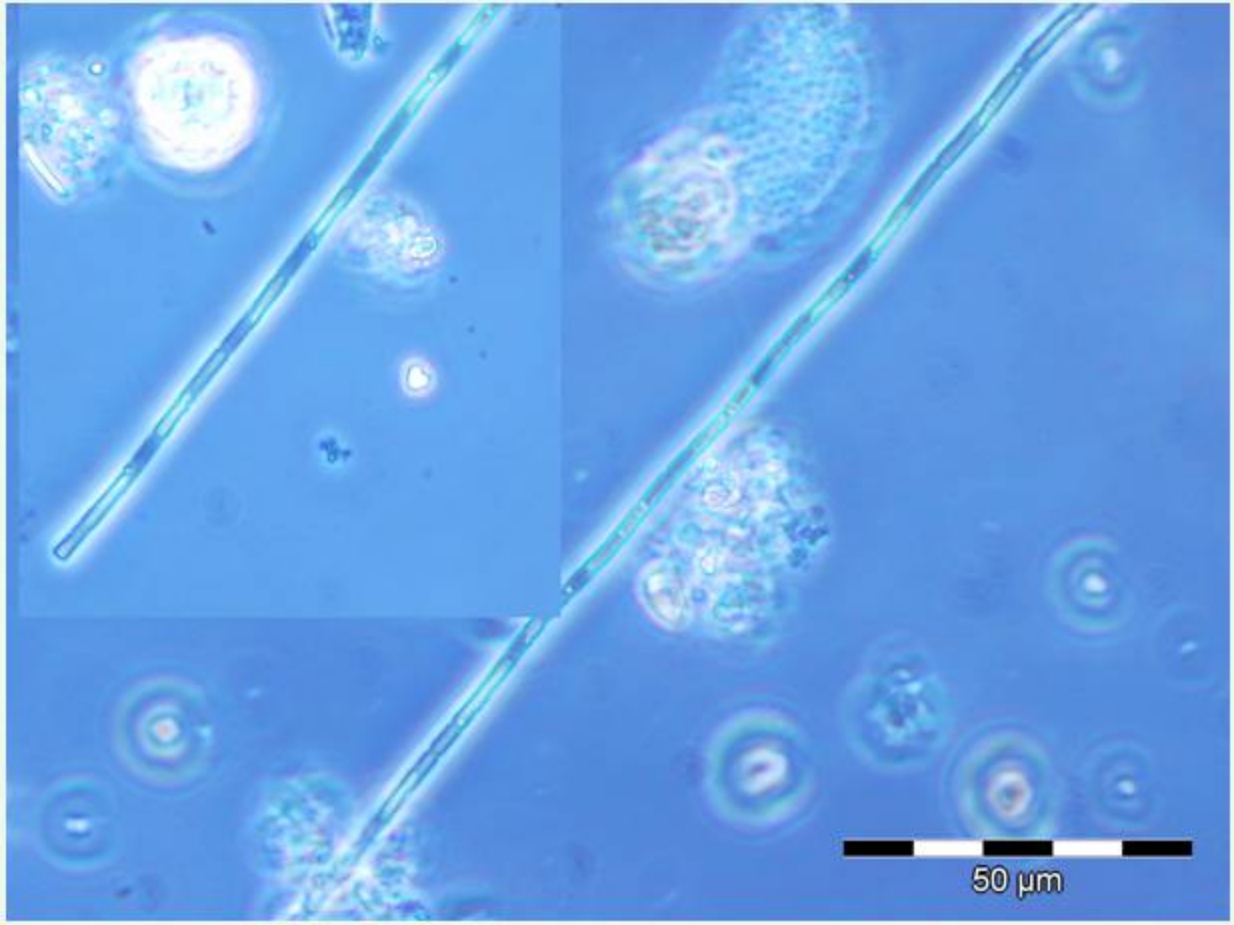
phytoplankton - bacillariophyceae

Leptocylindrus minimus

abundance: spring, summer
life-form: in chains
apical-axis: 1,5 – 4,5µm

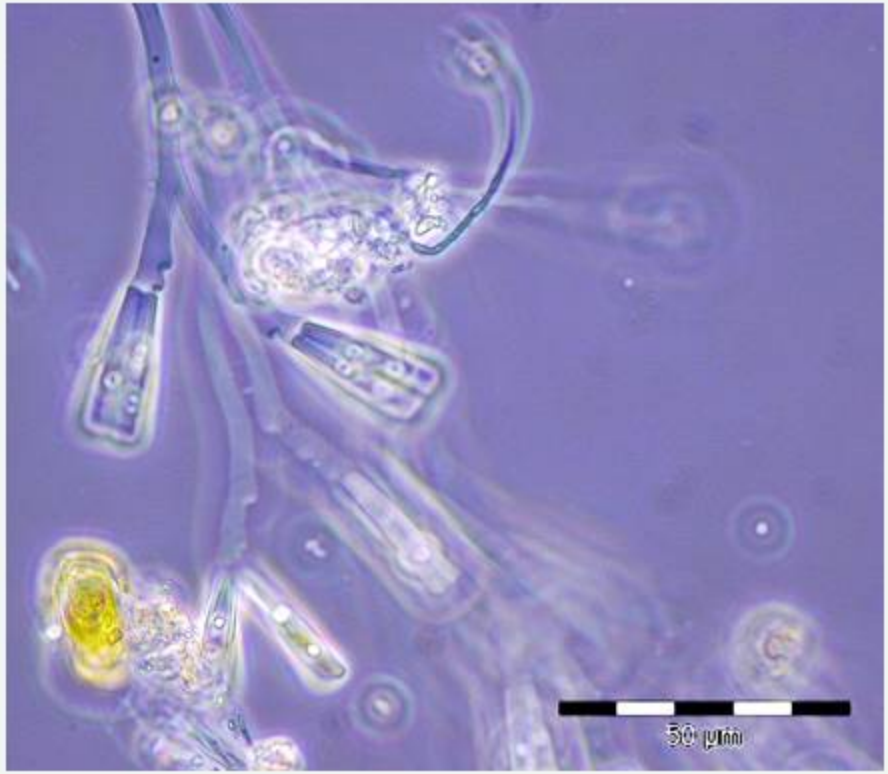


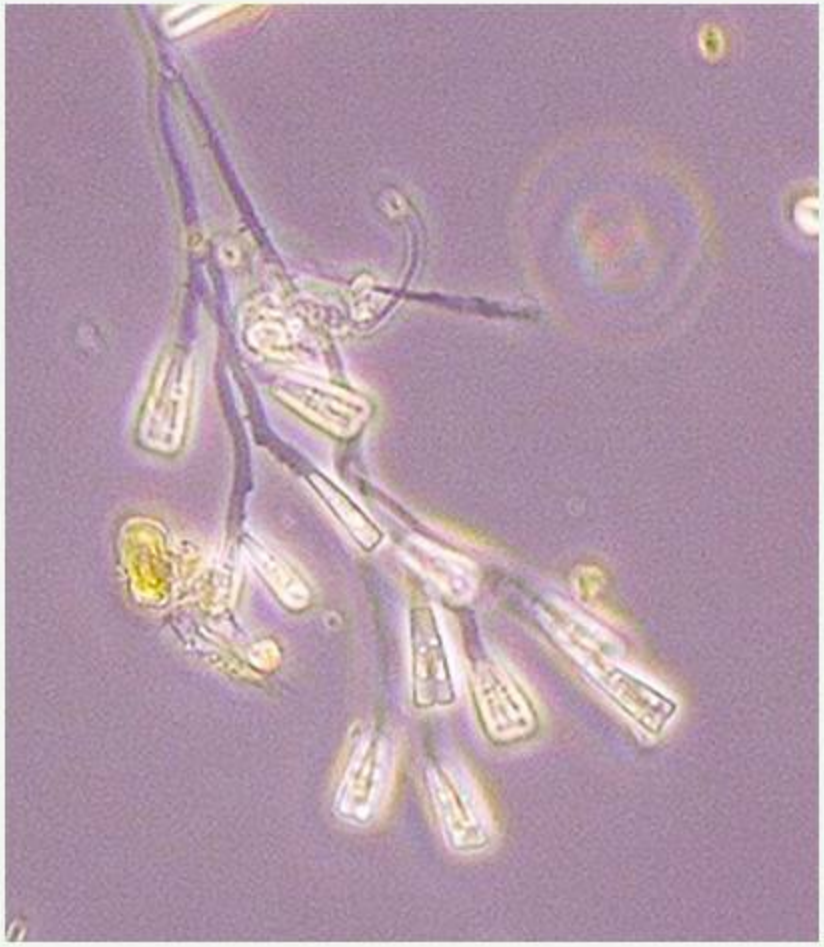
LM (Mecklenburg Bight)

phytoplankton - bacillariophyceae

Licmophora sp.

abundance: spring
life-form: epiphytic, cells attached to the substratum (colonies)
cell length: 25µm



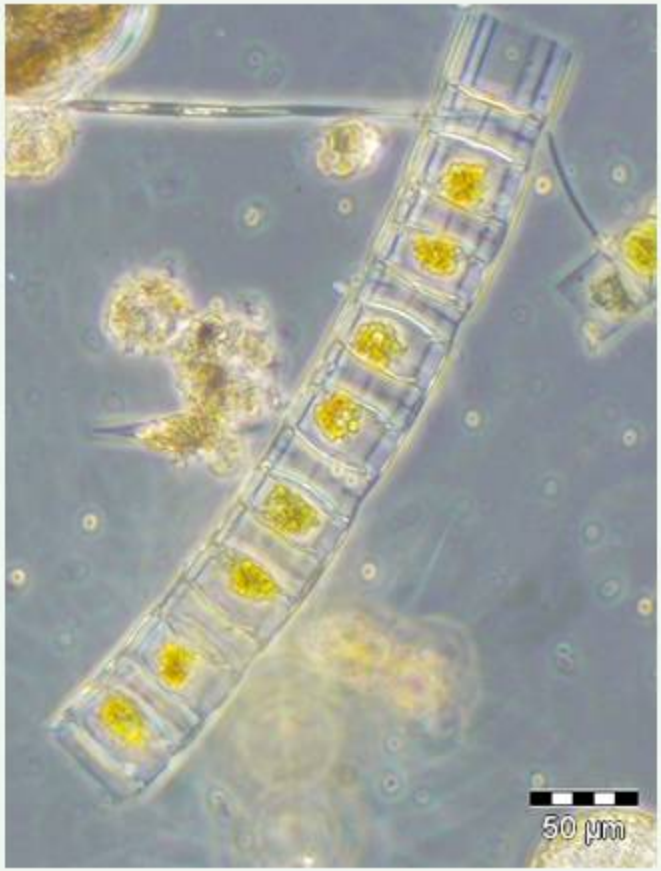


LM (Mecklenburg Bight)

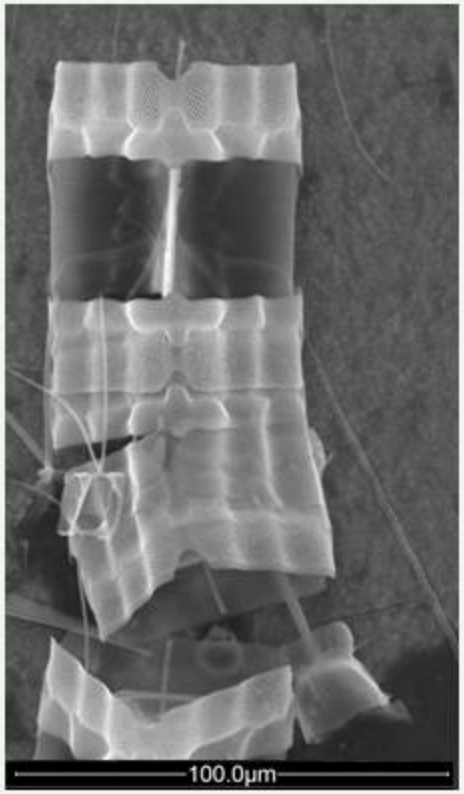
phytoplankton - bacillariophyceae

Lithodesmium undulatum

abundance: throughout the year
life-form: in chains
length of valve side: 37-93µm



LM (North Sea, ES1)

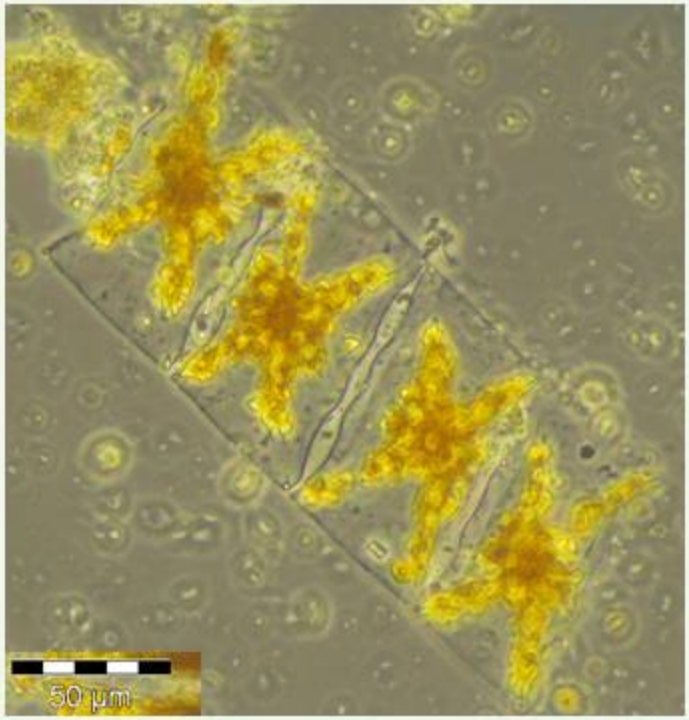


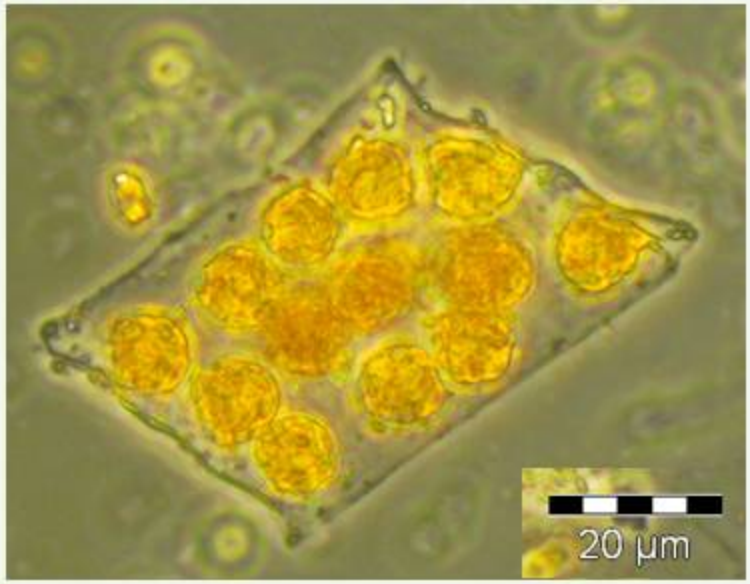
LM (North Sea, SYLT1)

phytoplankton - bacillariophyceae

Mediopyxis helysia

abundance: spring
life-form: in short chains or solitary
apical axis: 44-125µm
pervalvar axis: 27-78µm



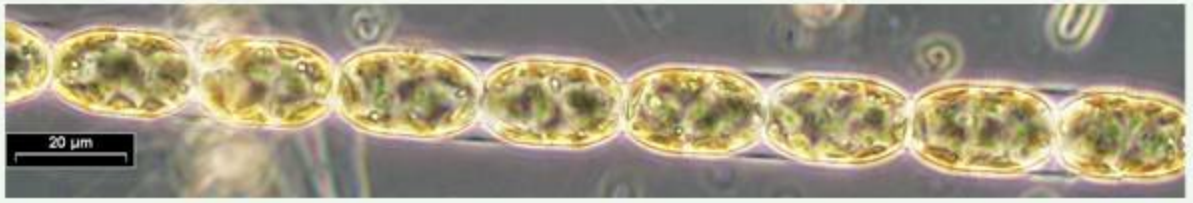


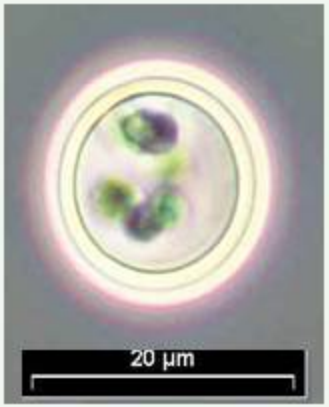
LM (North Sea, ES1)

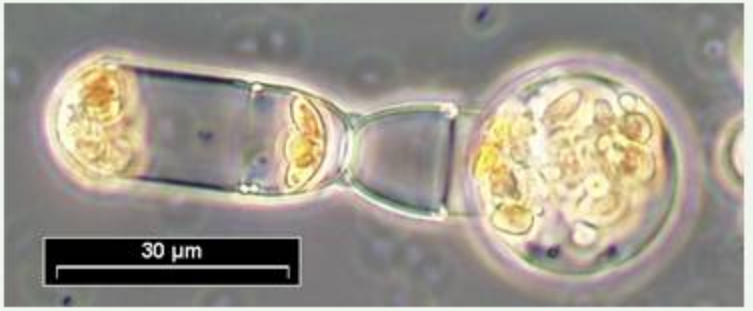
phytoplankton - bacillariophyceae

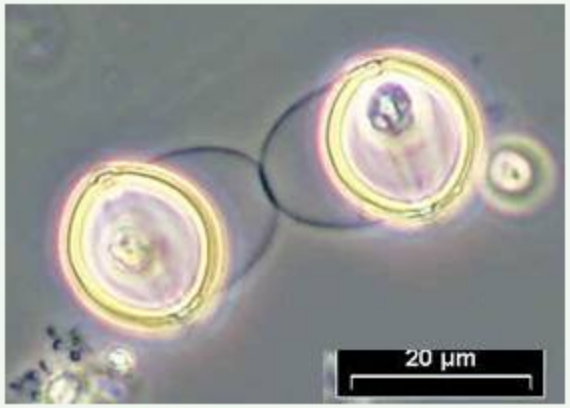
Melosira arctica

abundance: spring, early summer
life-form: in long chains
size: cell: 15 x 20µm
resting spore: 10 - 15µm

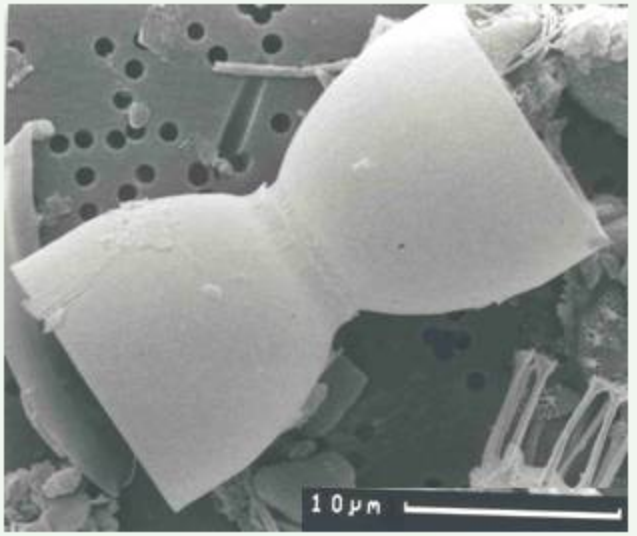








LM (Gotland Sea, sediment trap) resting spores



REM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Melosira granulata

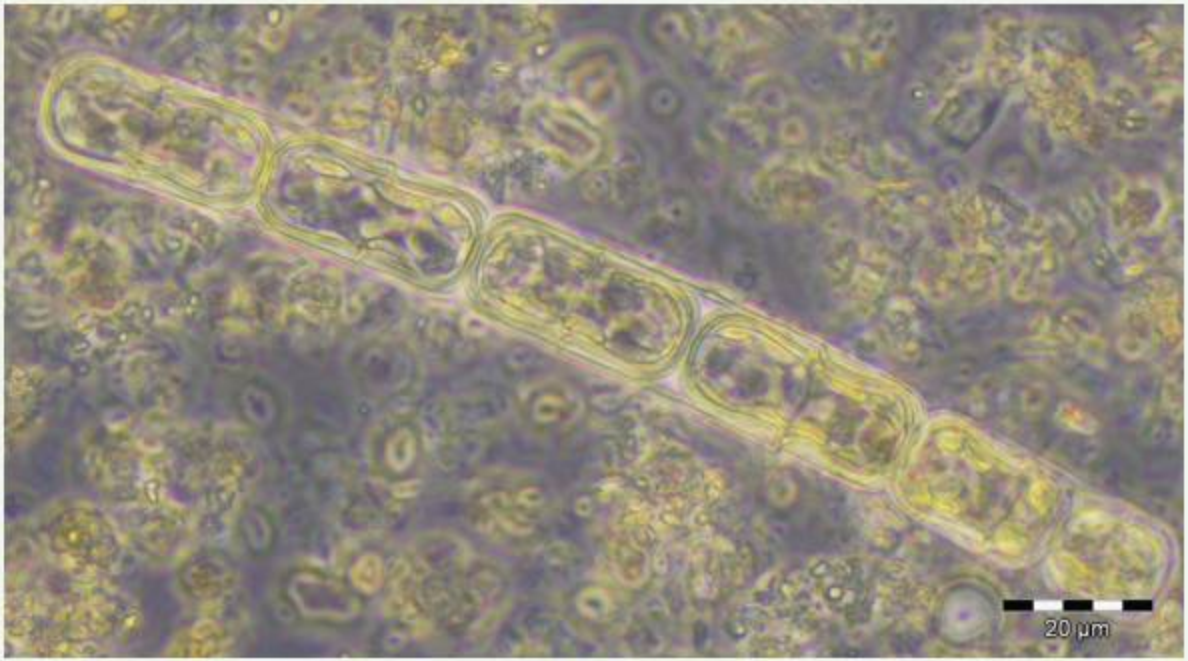
life-form: in chains
cell diameter: 5 – 21 µm
morphology: endcell with spines and stright lines of pores;
middle cells with convoluted lines of pores

LM (Pommeranian Bight)

phytoplankton - bacillariophyceae

Melosira lineata

abundance: all year
life-form: in chains
length: 10-40µm

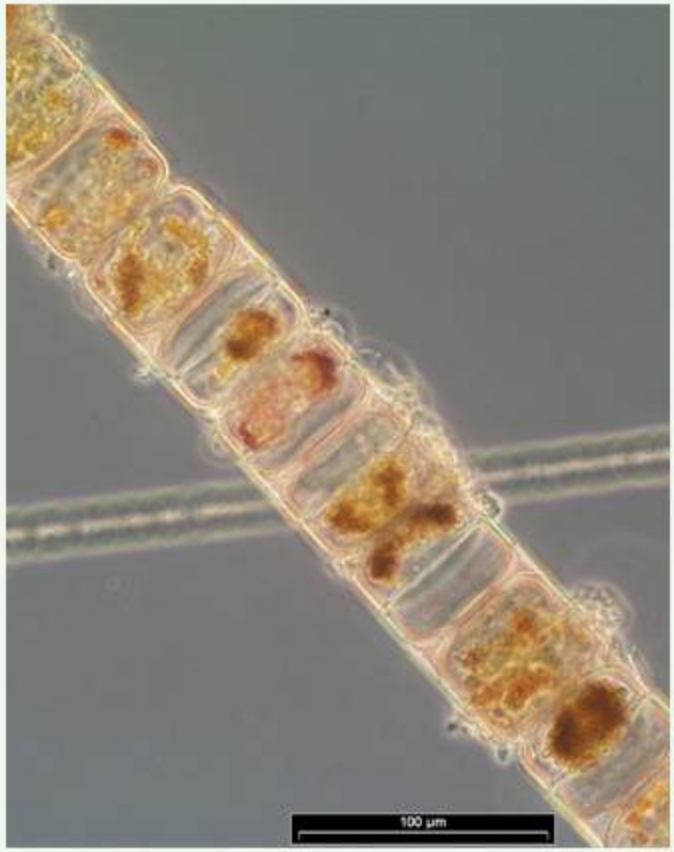


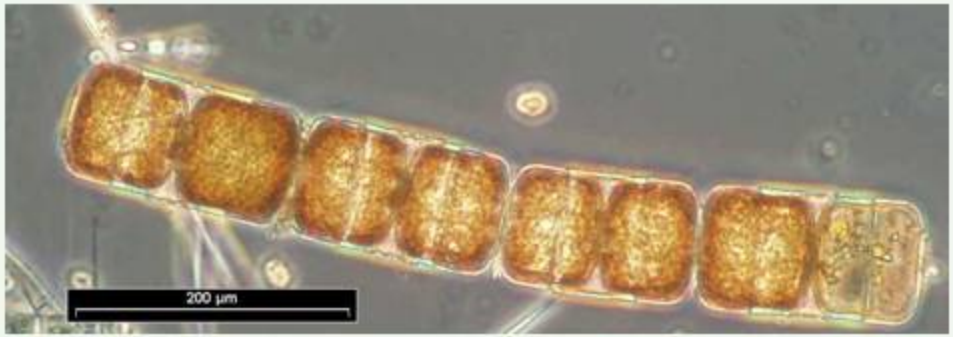
LM (Bothnian Sea, sediment trap)

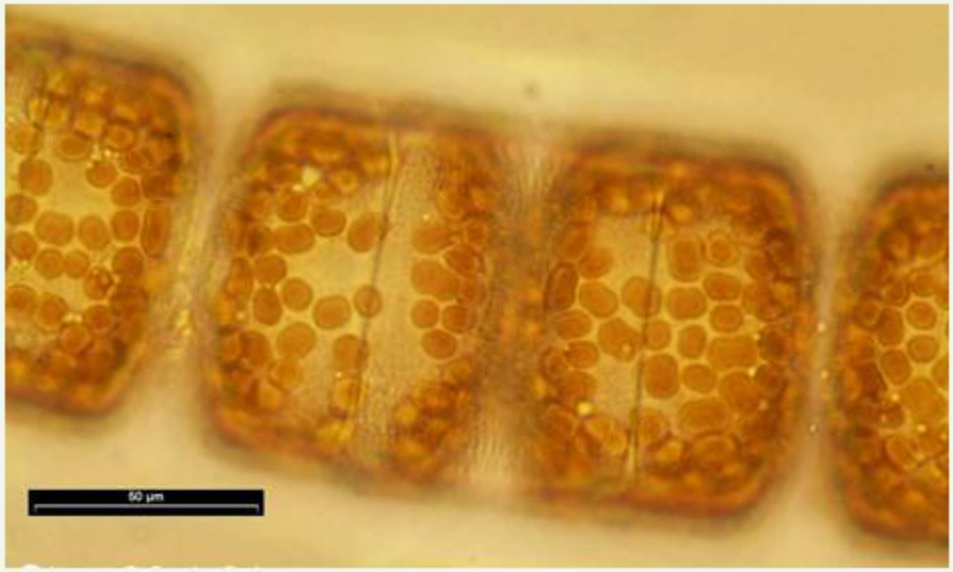
phytoplankton - bacillariophyceae

Melosira moniliformis

abundance: winter, spring
life-form: in long chains
diameter: 25 - 60µm





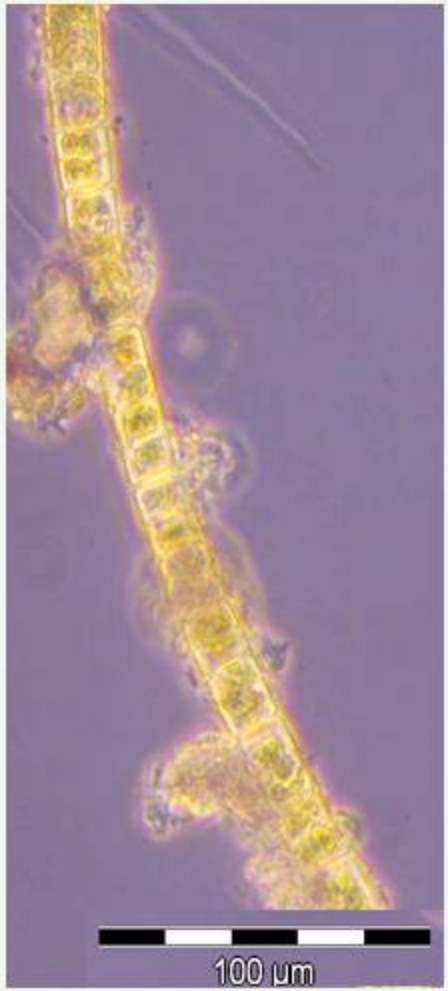


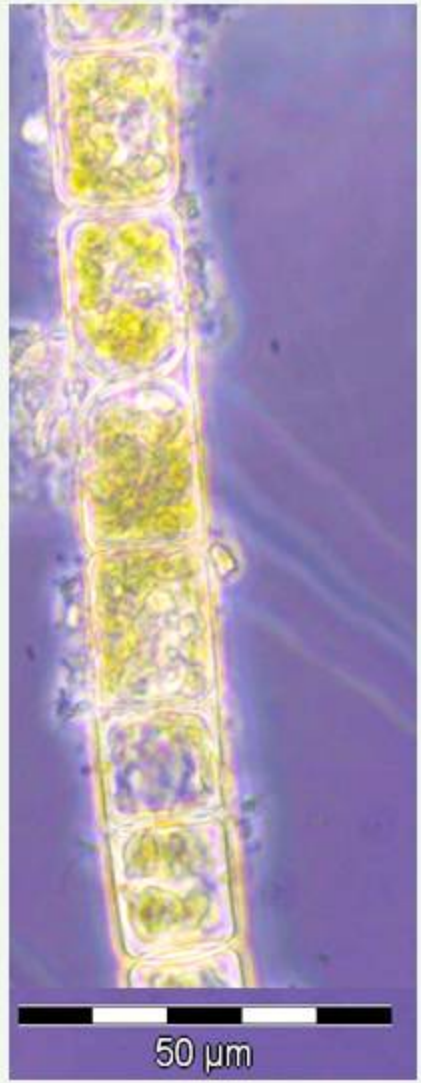
LM (coastal station Heiligendamm)

phytoplankton -bacillariophyceae

Melosira varians

abundance: summer, autumn
life-form: in chains
diameter: 8-35µm



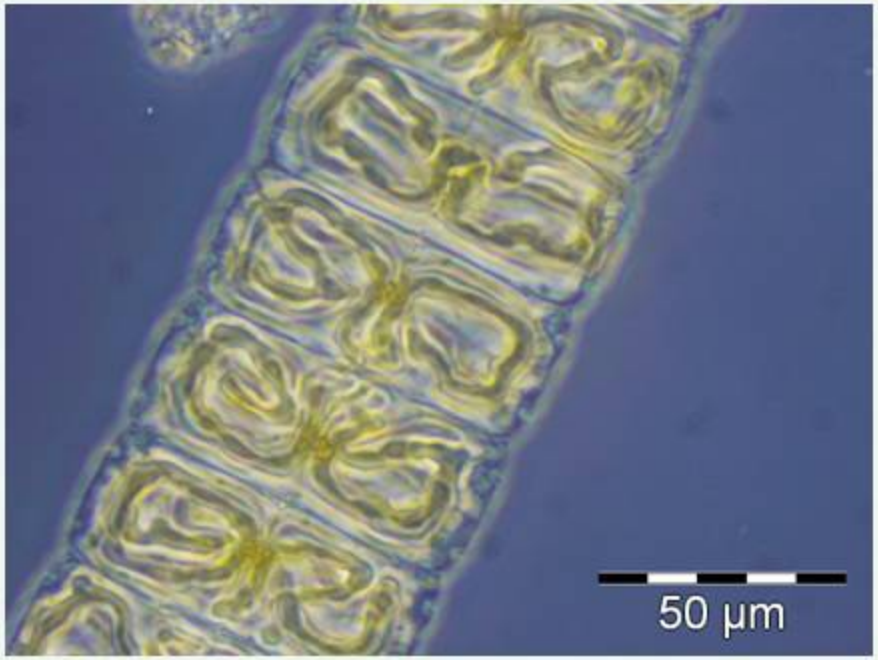


LM (coastal station Heiligendamm)

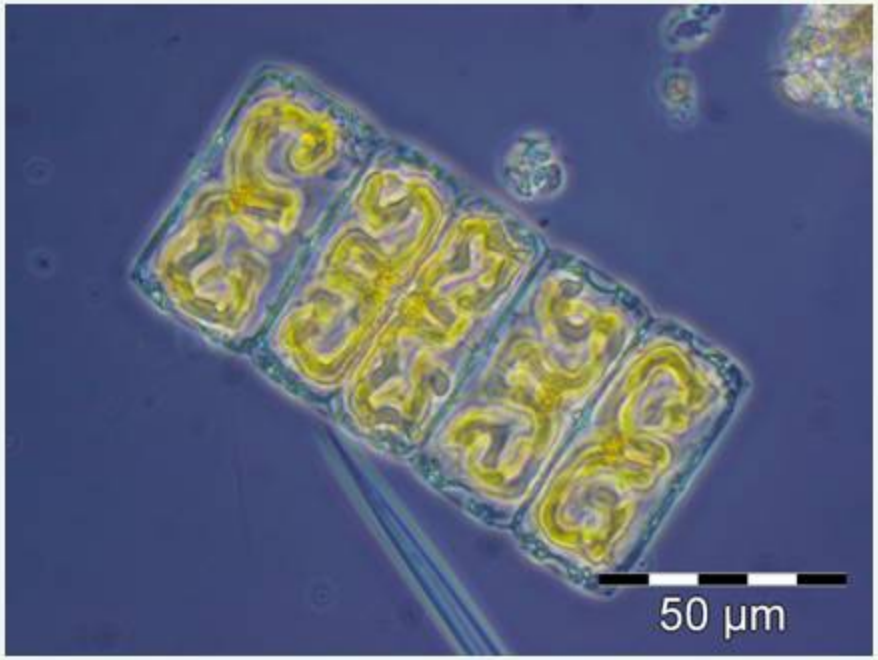
phytoplankton - bacillariophyceae

Meuniera membranacea

abundance: autumn
life-form: in chains
pervalvar axis: 30-40µm
apical axis: 50-90µm



LM (North Sea, NGW8)

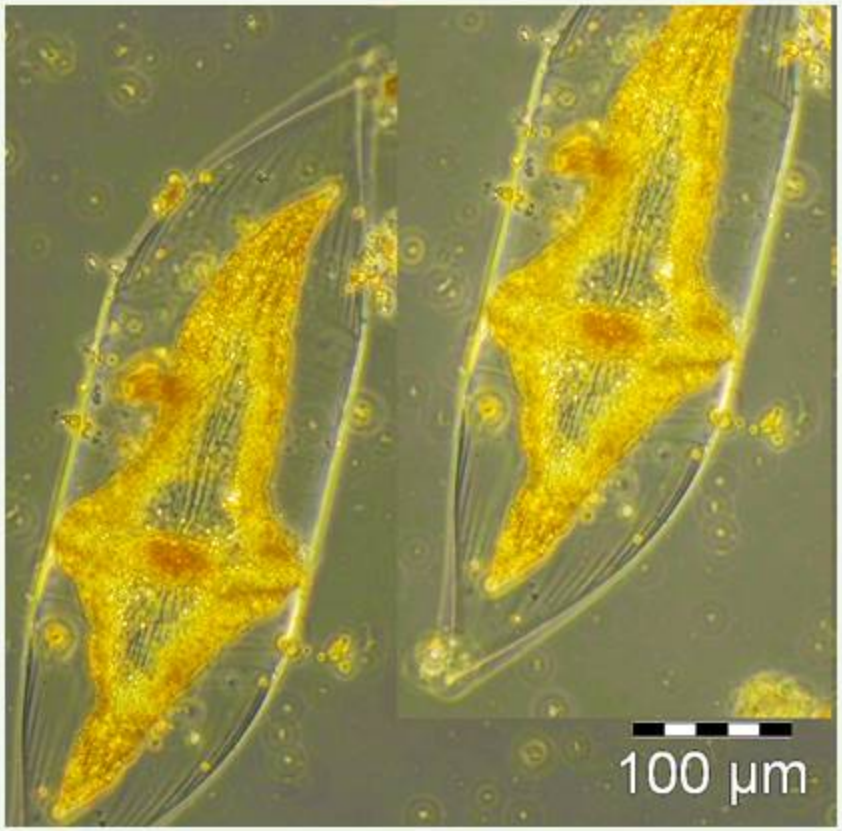


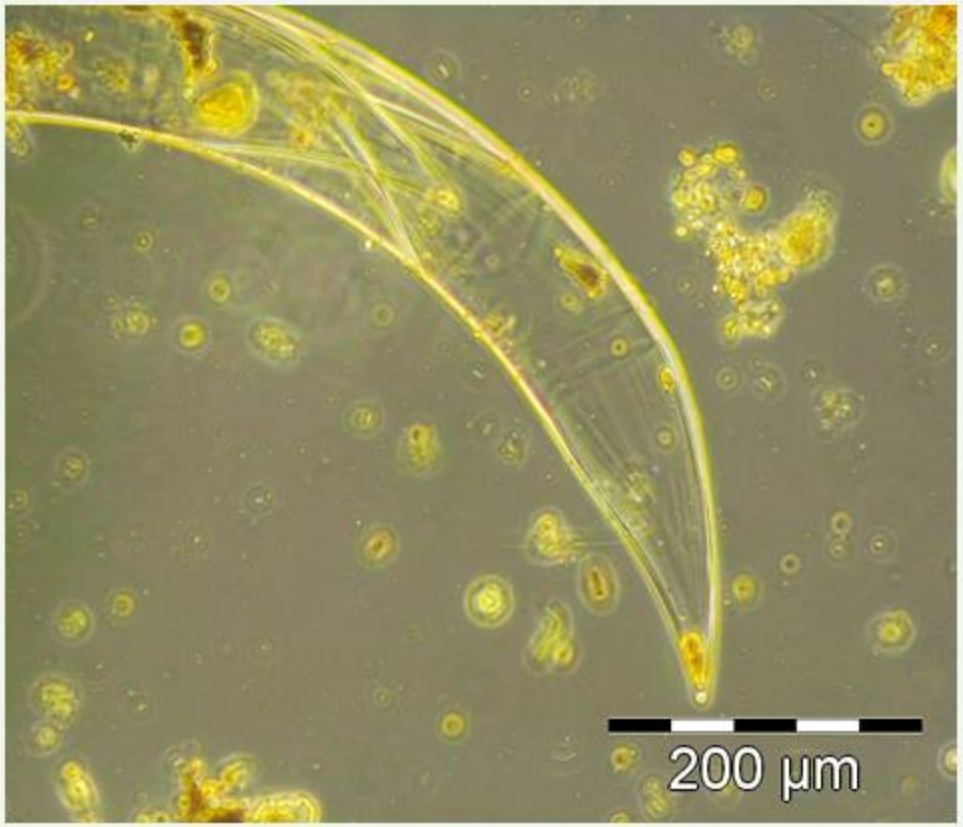
LM (North Sea, UFSDB)

phytoplankton - bacillariophyceae

Neocalyptrella robusta

abundance: summer, autumn
life-form: solitary
diameter: 40-400µm
cell length: 0,5-1mm



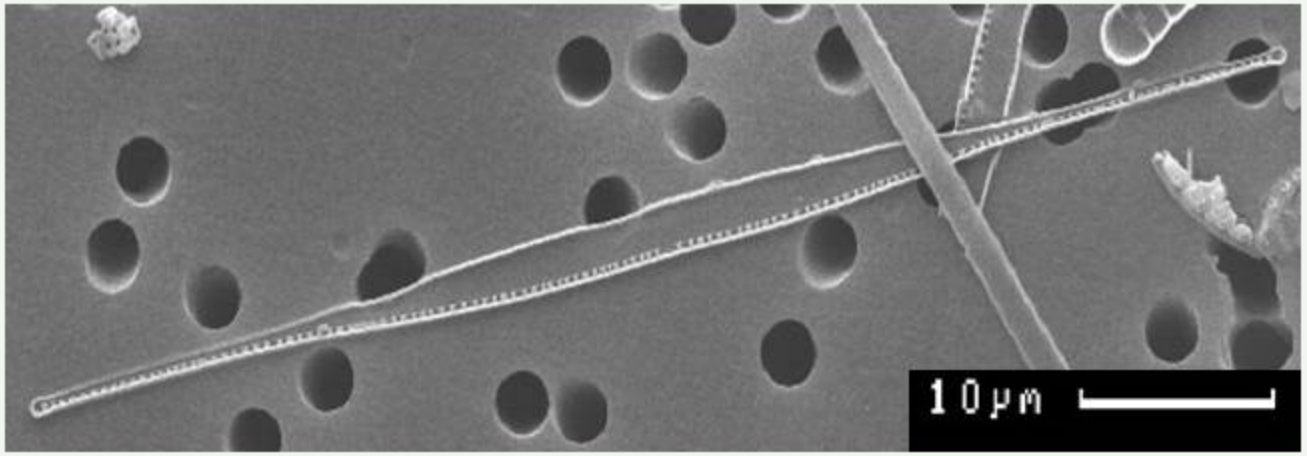


LM (North Sea, NGW8)

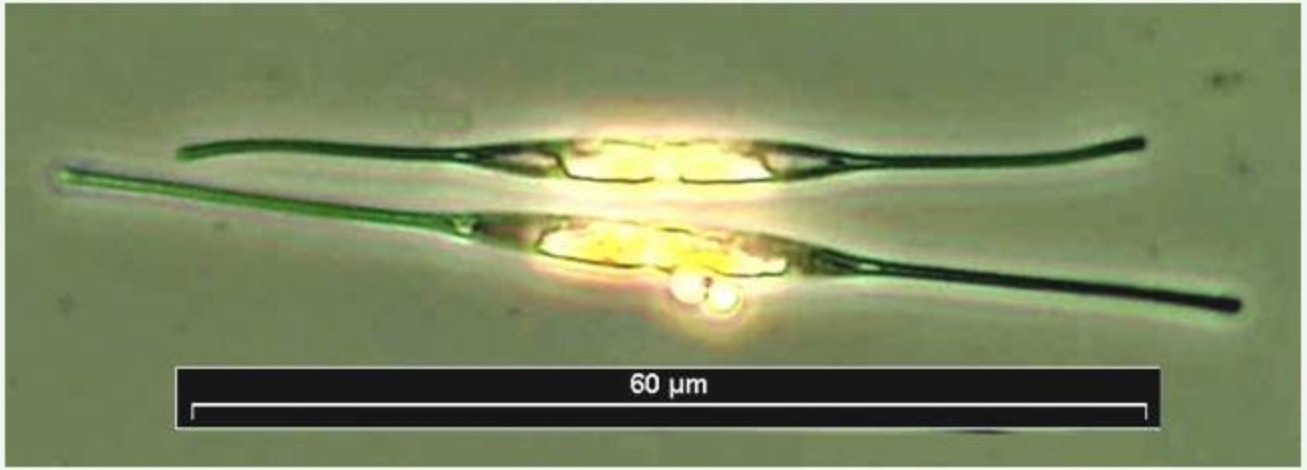
phytoplankton – bacillariophyceae

Nitzschia acicularis

life-form: solitary
length: 55-100µm
width: 3 - 4µm



REM (Oder Bight)

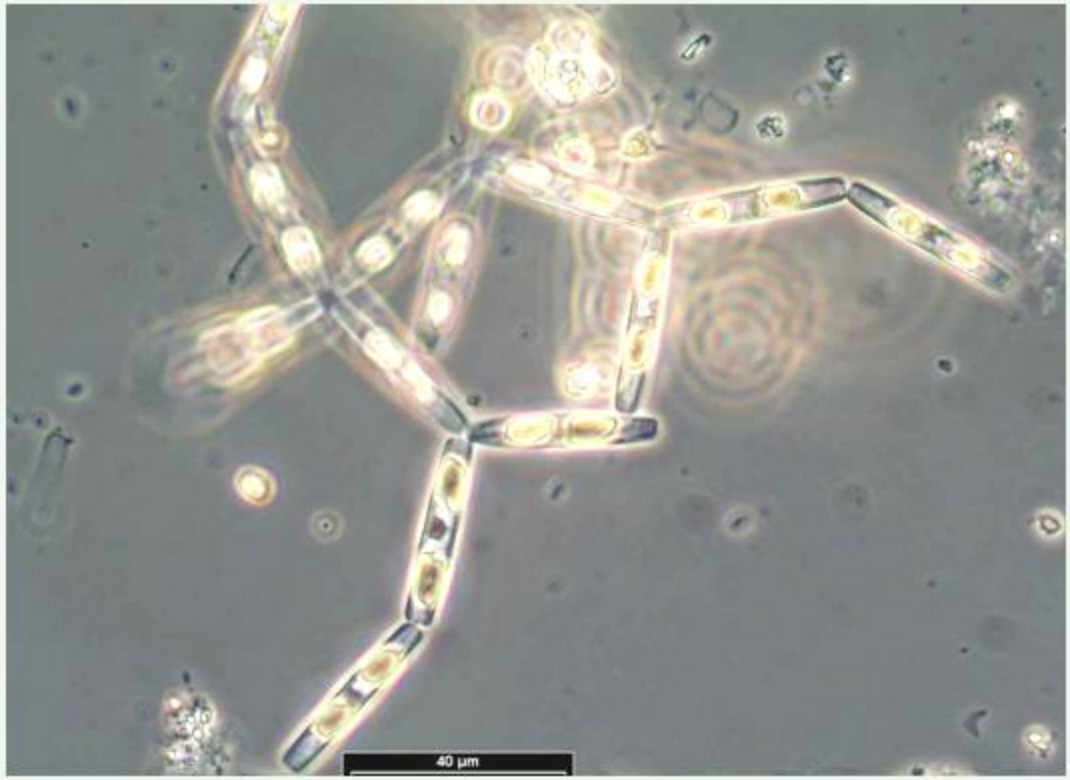


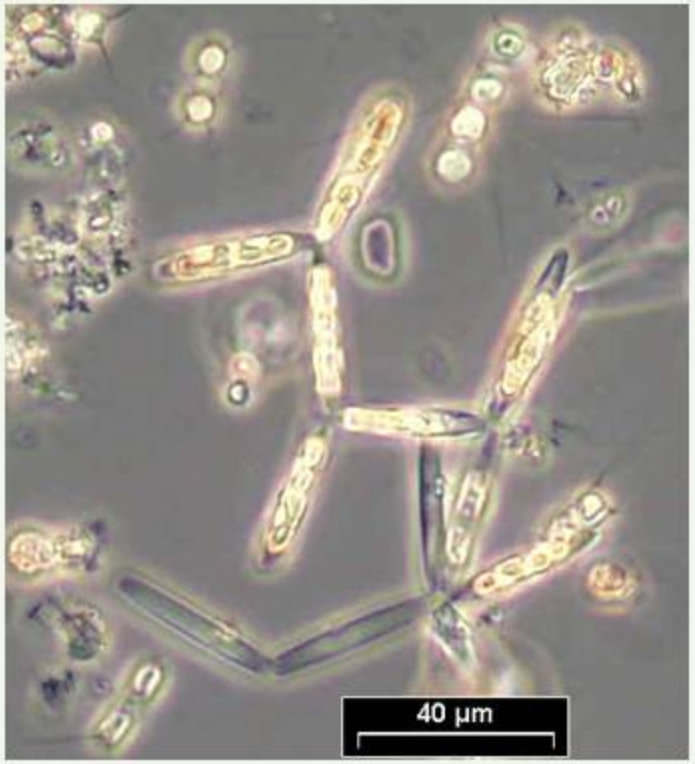
LM (Oder Bight)

phytoplankton -bacillariophyceae

Nitzschia frigida

abundance: spring
life-form: in colonies
apical axis: 32 – 64µm
transapical axis: 4 – 5µm





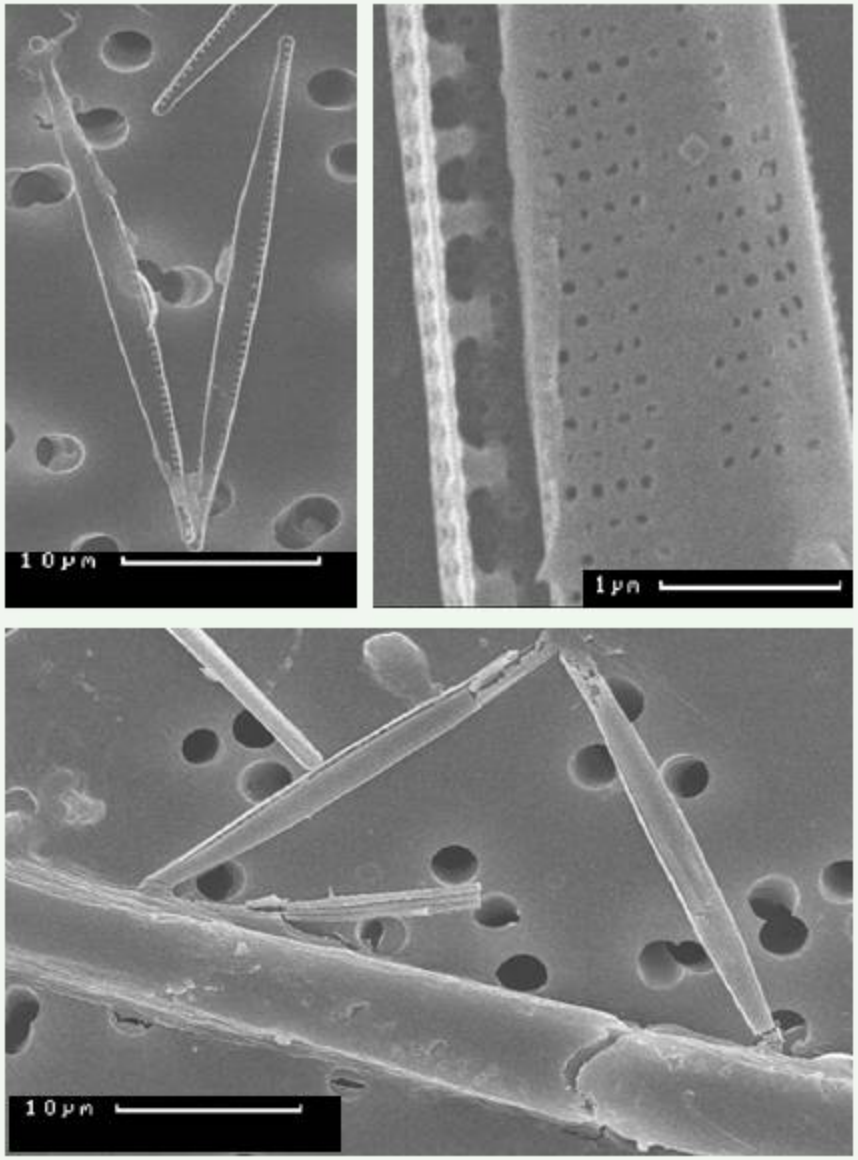
LM (Gotland Sea)

phytoplankton – bacillariophyceae

Nitzschia paleacea

abundance: summer, autumn
life-form: epilithic, solitary
apical axis: 14 - 54 µm
transapical axis: 2µm

N. paleacea epiphytic on filaments
of Nodularia spumigena
LM (Gotland Sea)

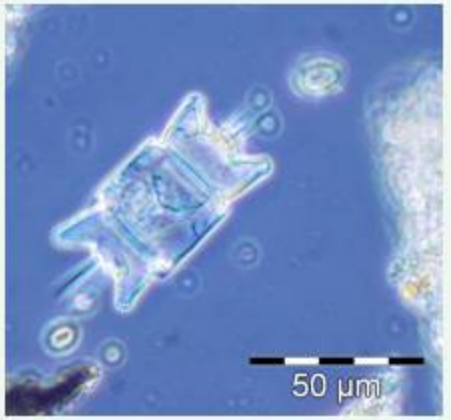


REM (Gotland Sea)

phytoplankton - bacillariophyceae

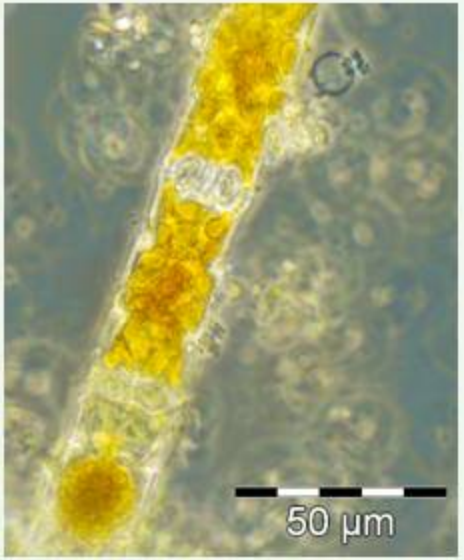
Odontella aurita

abundance: all year
life-form: in chains
length: 10-97µm

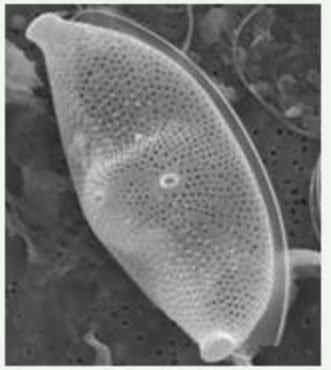


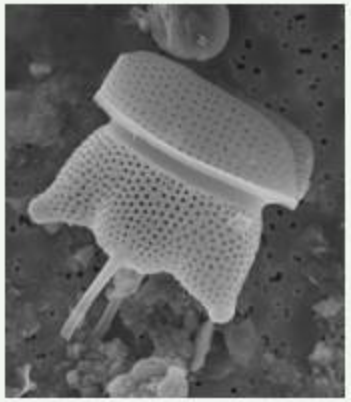
LM cleaned material

LM (North Sea, HELGO)



LM (North Sea, ES1)



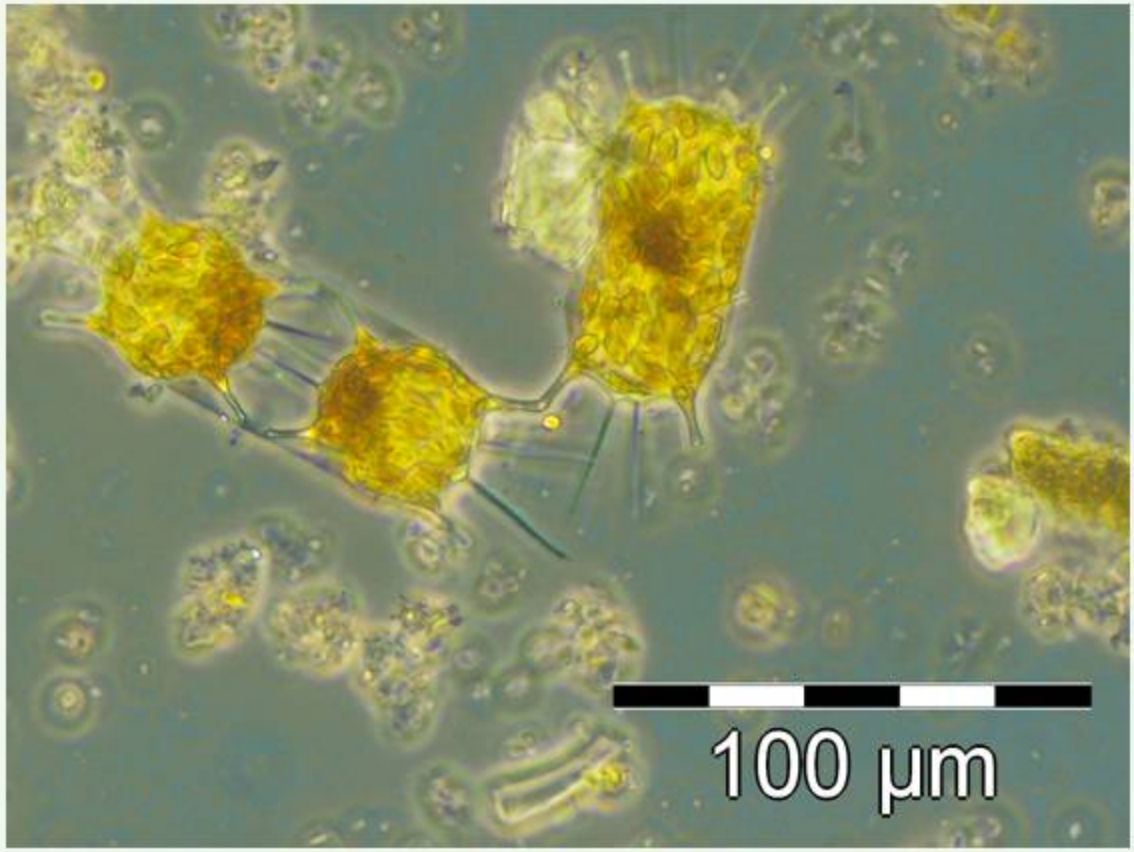


REM (North Sea, SYLT1)

phytoplankton - bacillariophyceae

Odontella mobiliensis

abundance: summer, autumn
life-form: single cells or short chains
apical length: 70-150µm

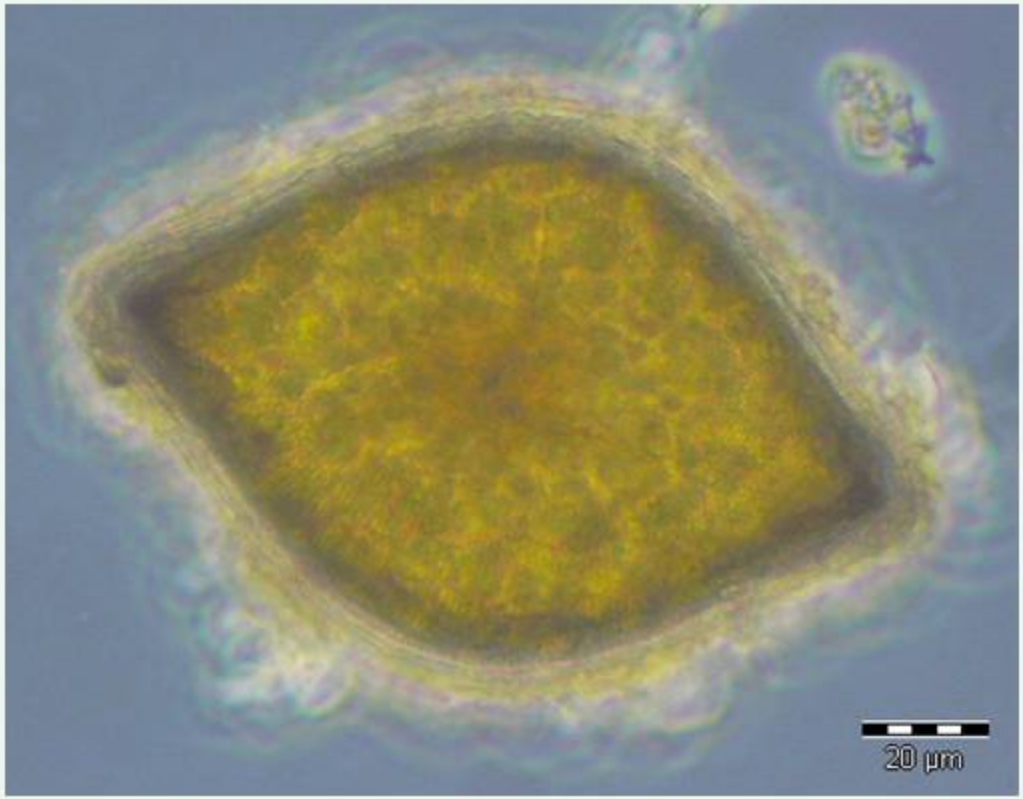


LM (North Sea, AMRU2)

phytoplankton - bacillariophyceae

Odontella rhombus

abundance: all year
life-form: single cells, sometimes short zigzag chains
apical axis: 20-200µm

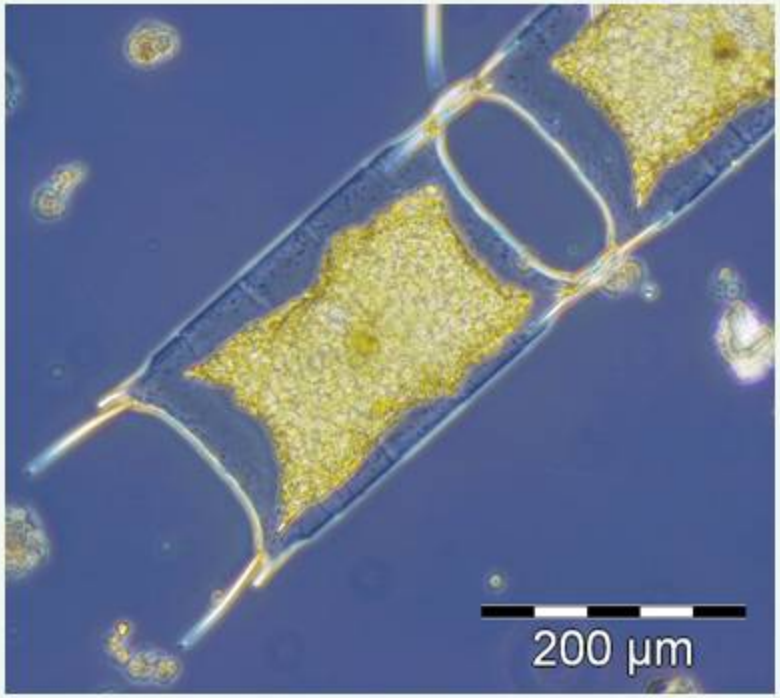


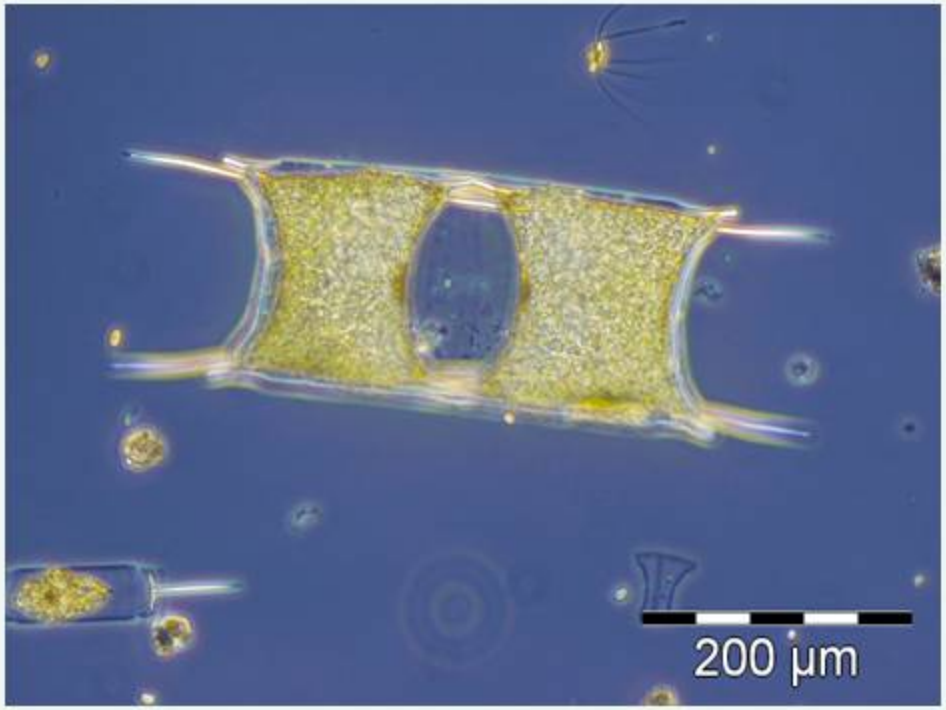
LM (North Sea, SYLT1)

phytoplankton - bacillariophyceae

Odontella sinensis

abundance: summer, autumn
life-form: in chains
apical length: 80-440µm



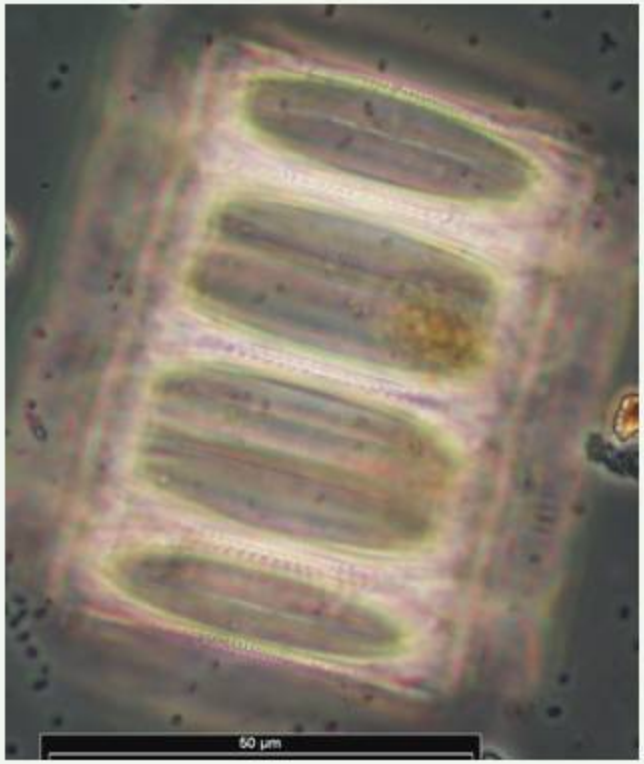


LM, (North Sea, AMRU2)

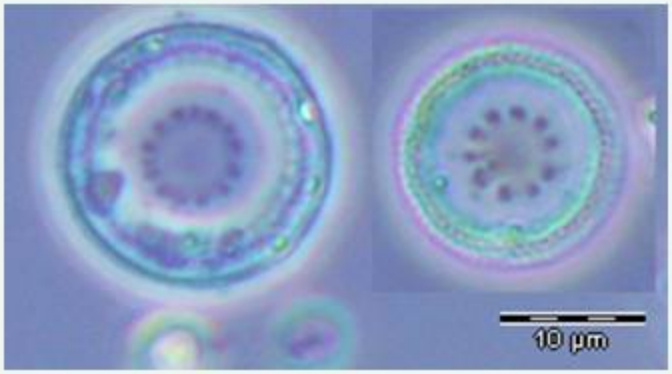
phytoplankton – bacillariophyceae

Paralia sulcata

abundance: spring
life-form: in chains
diameter: 10-80µm



LM (coastal station Heiligendamm)

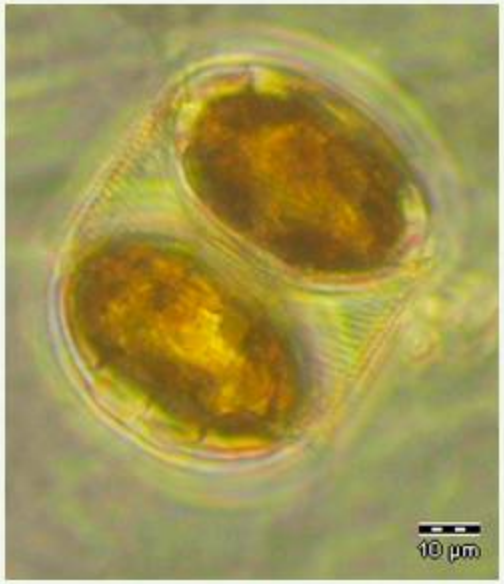


LM (North Sea, NGW8) cleaned material

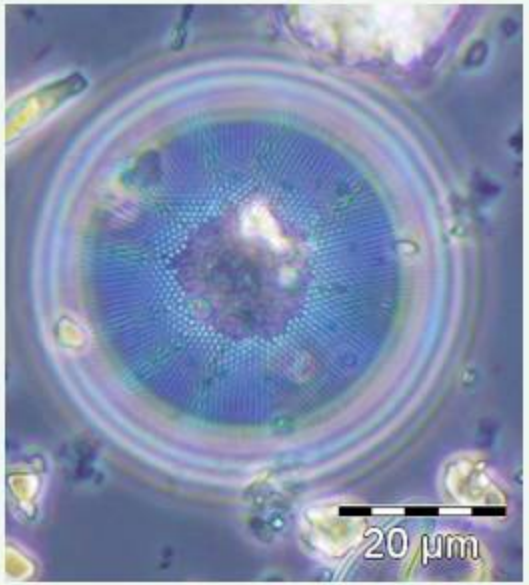
phytoplankton - bacillariophyceae

Podosira stelliger

abundance: occasional abundant
life-form: single cells or in pairs
diameter: 30 - 125µm



LM (North Sea, ES1)



LM (North Sea, NGW8)
cleaned material

phytoplankton - bacillariophyceae

Porosira glacialis

abundance: winter, spring
life-form: in chains
diameter: 30 - 70µm

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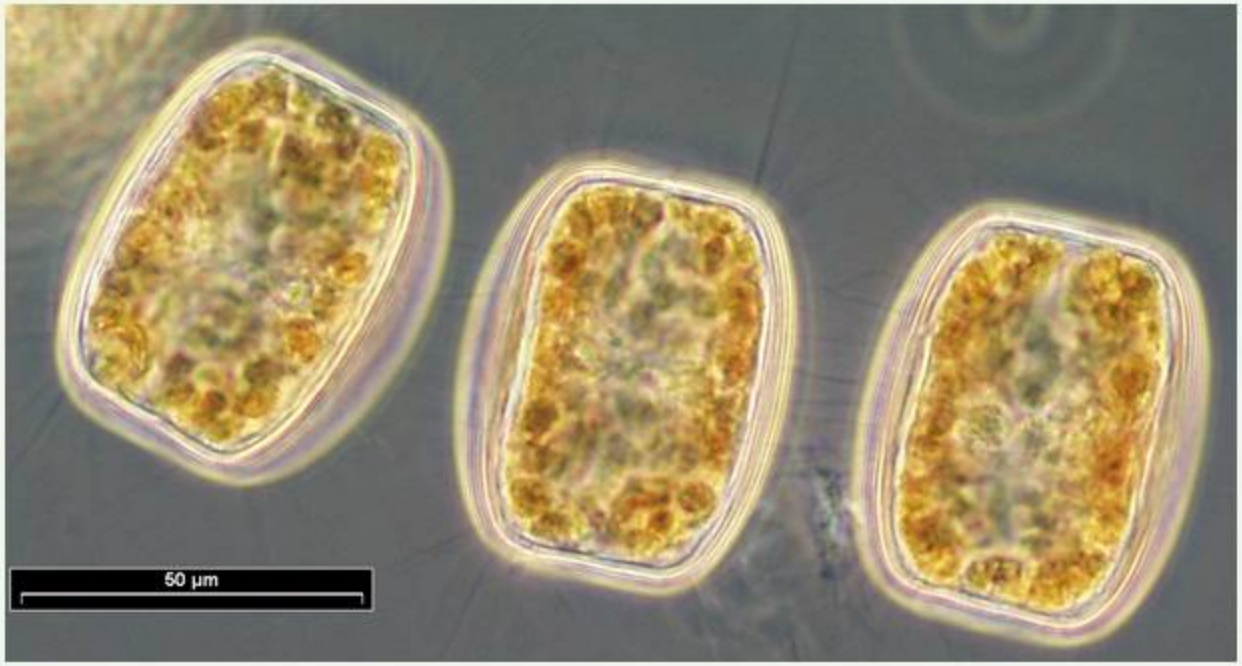
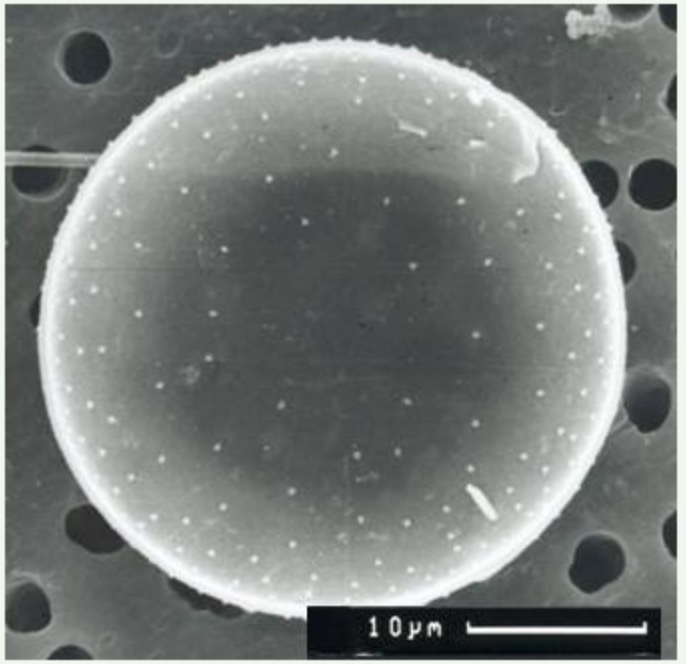
IOW

LM (coastal station Heiligendamm)



LM (coastal station Heiligendamm)

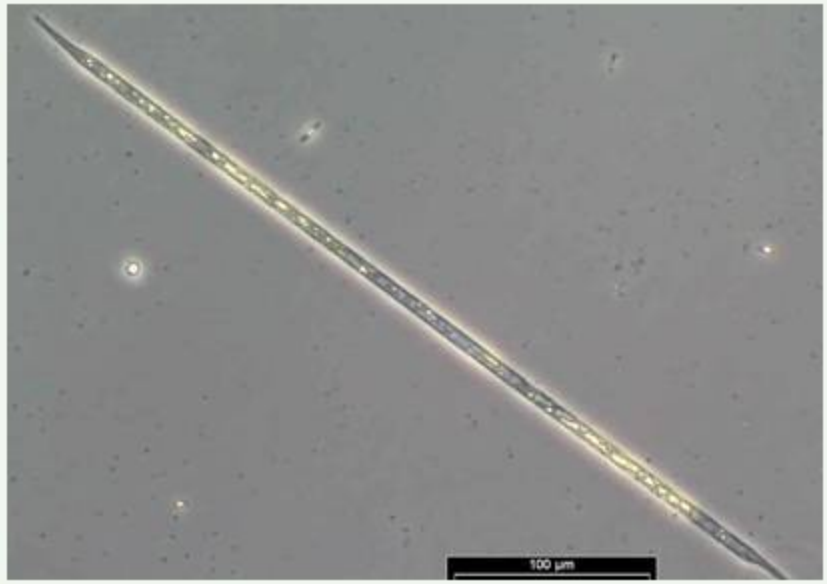


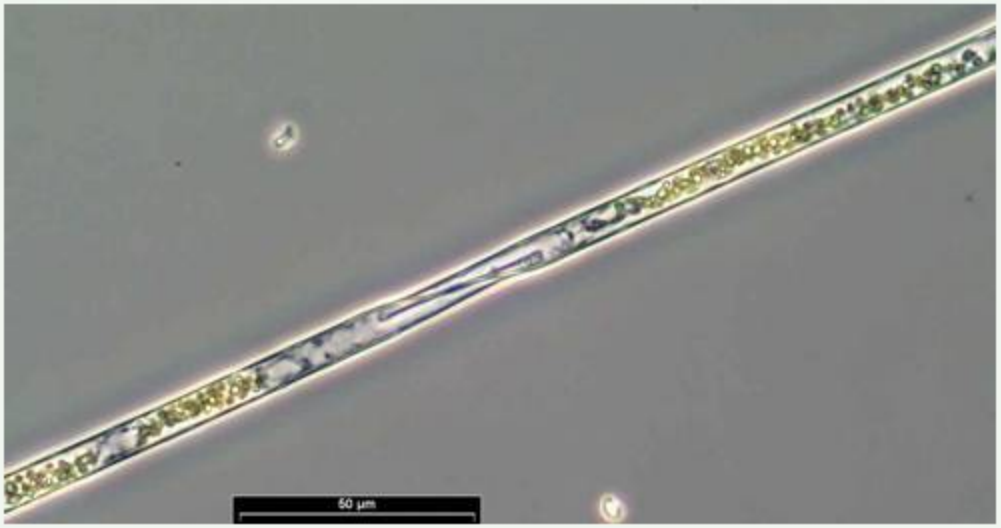
REM (Kiel Bight)

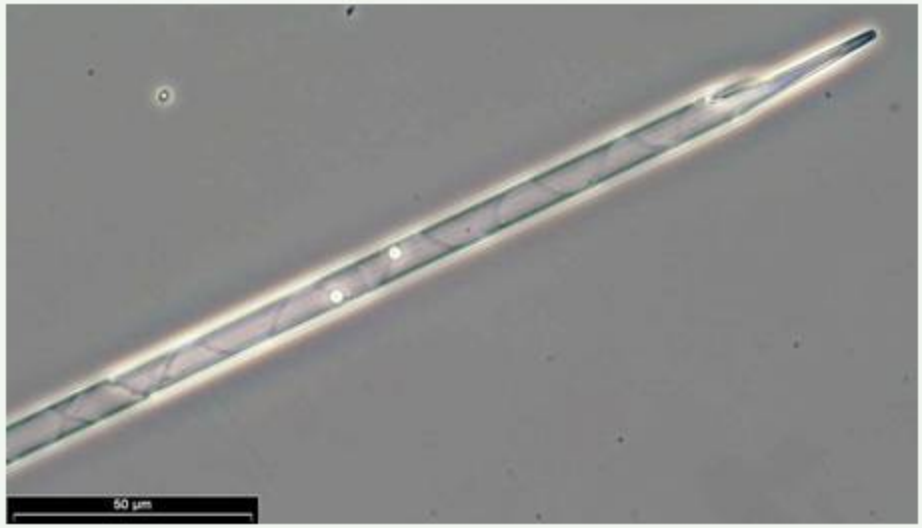
phytoplankton - bacillariophyceae

Proboscia alata

abundance: spring, summer
life-form: in chains or solitary
diameter: 3,5 - 10µm





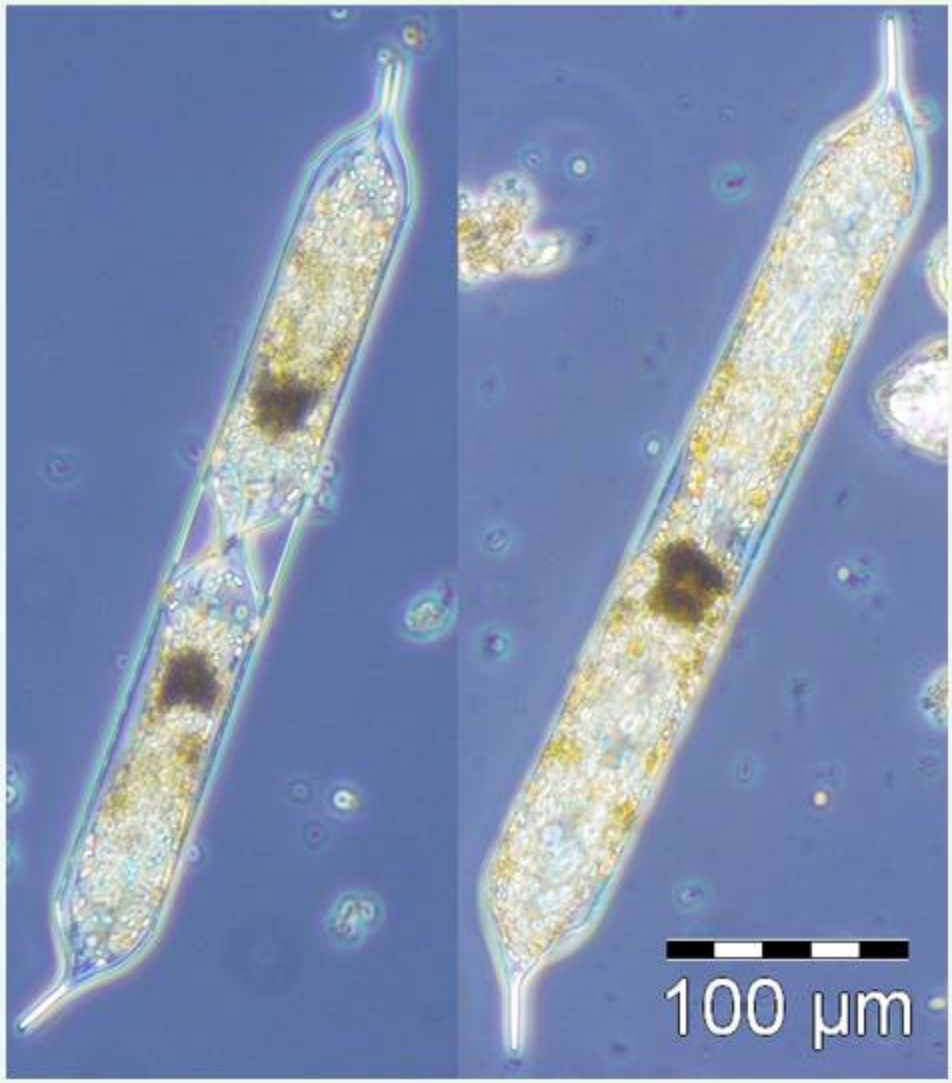


LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Proboscia indica

abundance: summer, autumn
life-form: solitary or in chains
diameter: 20 - 70µm



LM (North Sea, AMRU2)

phytoplankton - bacillariophyceae

Pseudo-nitzschia delicatissima

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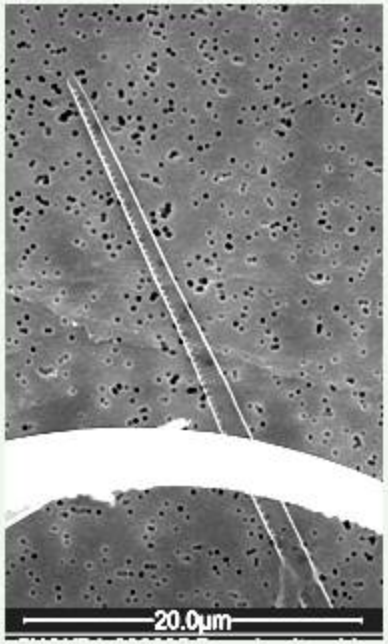
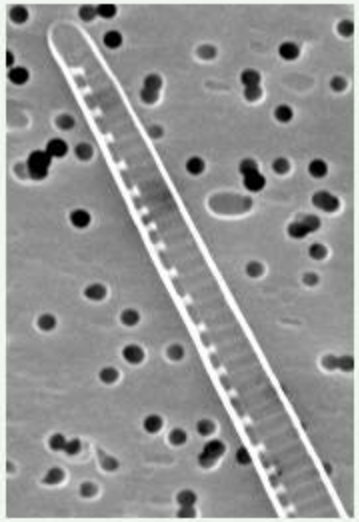
abundance: spring to autumn
life-form: solitary or in chains
length: 19 - 80 µm
width: 1,5 - 2,0 µm
cell overlap: one ninth of cell length

LM (North Sea, SWWBA)



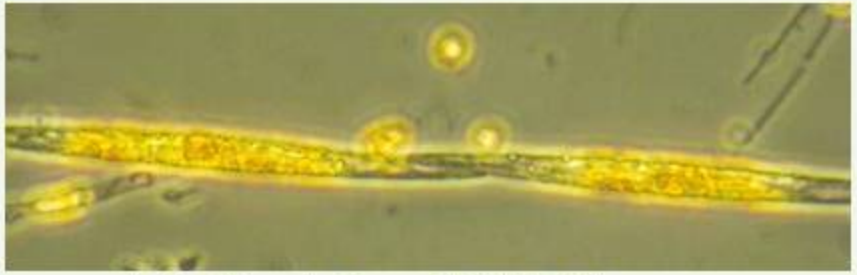


REM (North Sea, SWWBA)

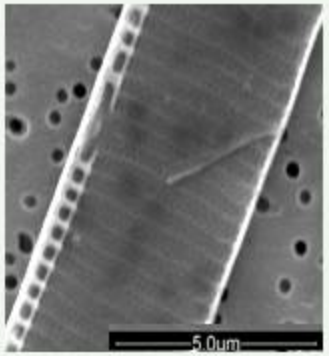
phytoplankton - bacillariophyceae

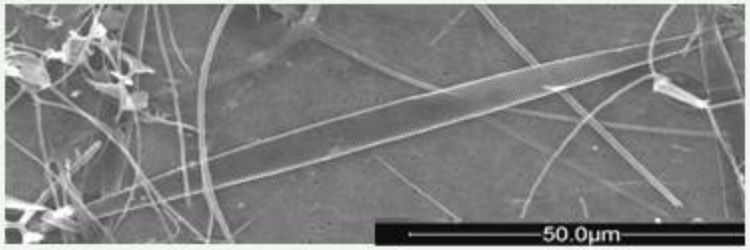
Pseudo-nitzschia fraudulenta

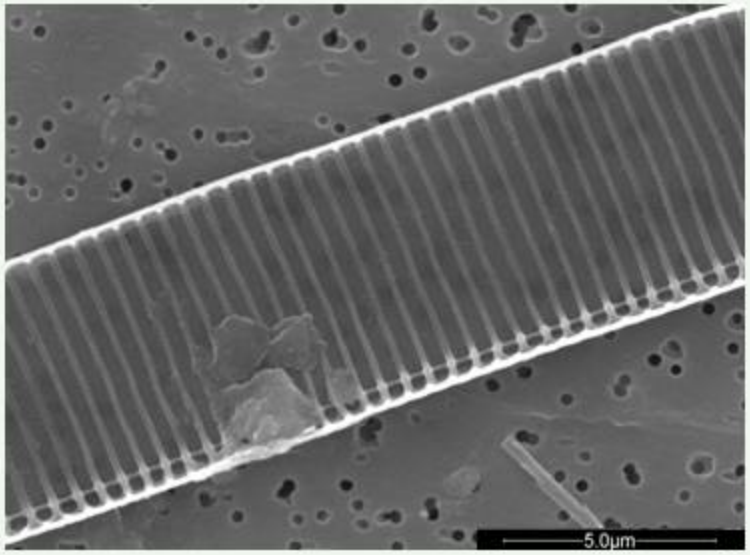
abundance: spring, early summer
life-form: in chains
length: 50 - 119 µm
width: 4,5 - 10 µm
cell overlap: very short



LM (North Sea, SWWBA)





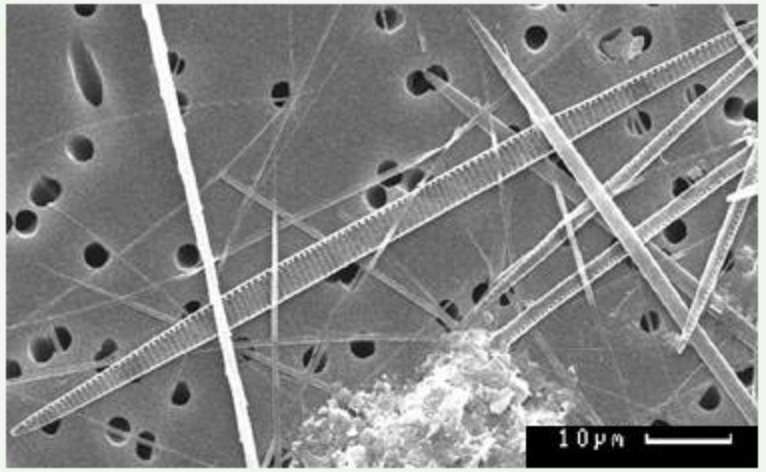


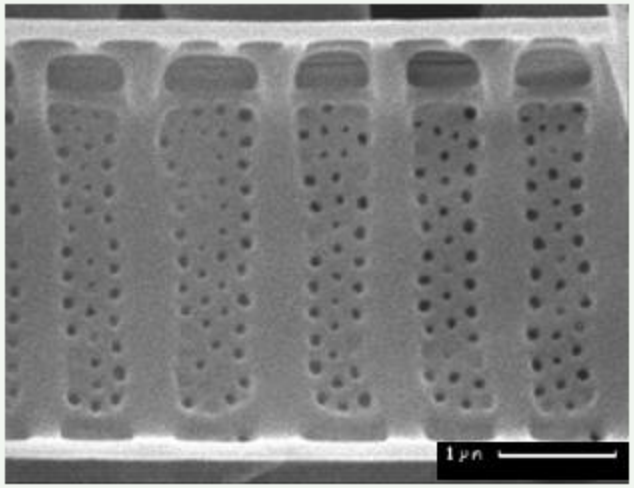
REM (North Sea, SWWBA)

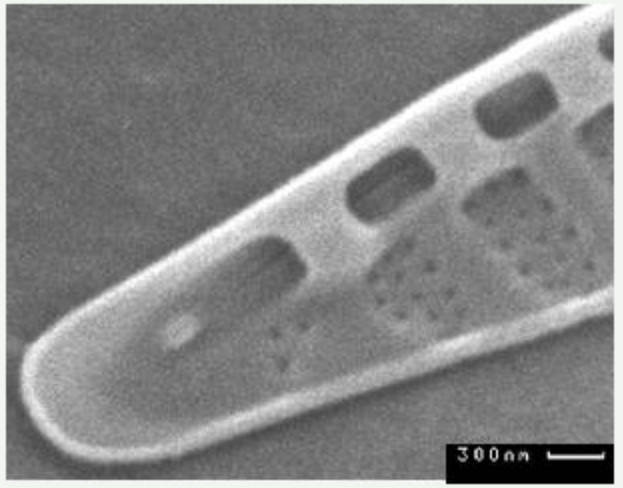
phytoplankton - bacillariophyceae

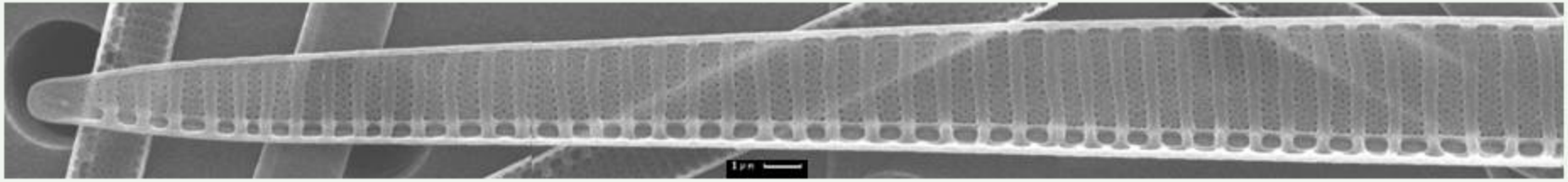
Pseudo-nitzschia multiseries

abundance: late summer, autumn
life-form: solitary or in chains
length: 70 - 140µm
width: 3,4 - 5µm







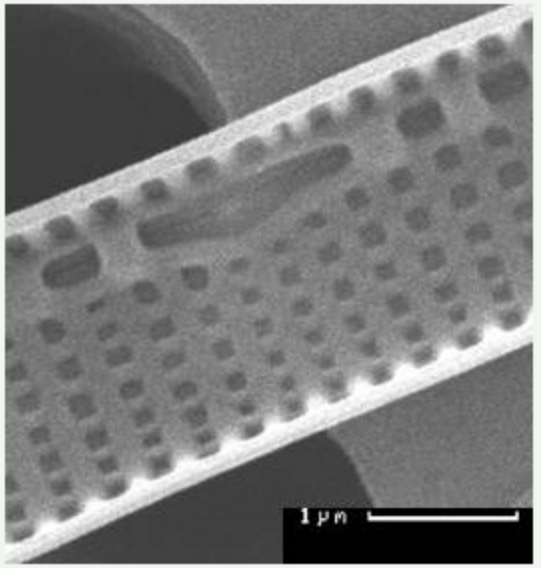


REM (coastal station Heiligendamm)

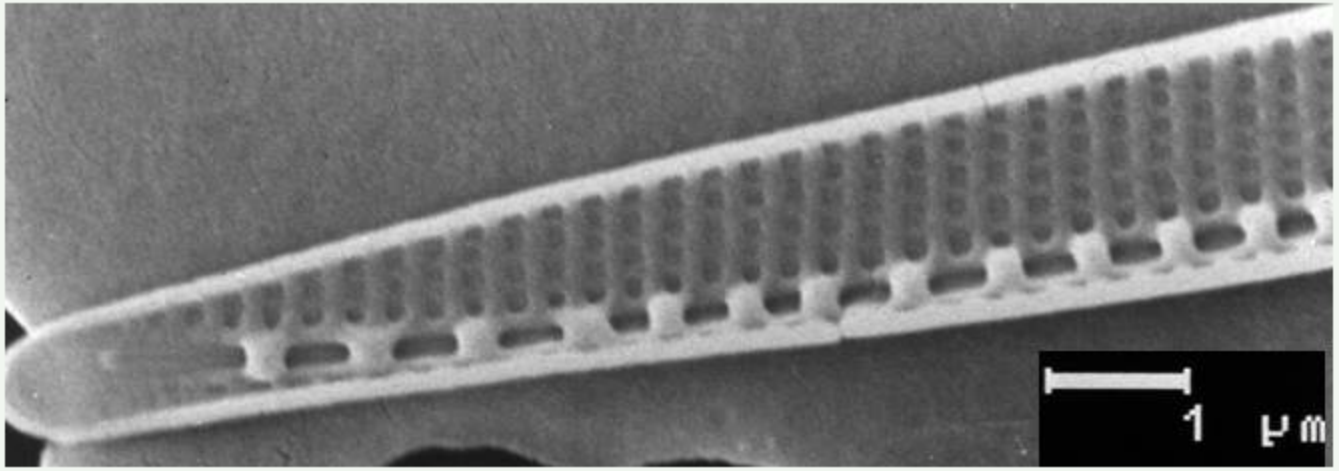
phytoplankton - bacillariophyceae

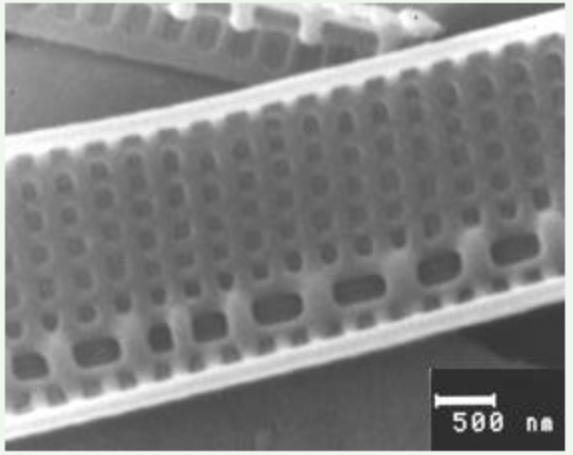
Pseudo-nitzschia pseudodelicatissima

abundance: late summer, autumn
life-form: solitary or in chains
length: 80 - 110 µm
width: 1,5 - 2.5 µm



REM (coastal station Heiligendamm)
central nodule





REM (Kiel Bight)

phytoplankton - bacillariophyceae

Pseudo-nitzschia pungens

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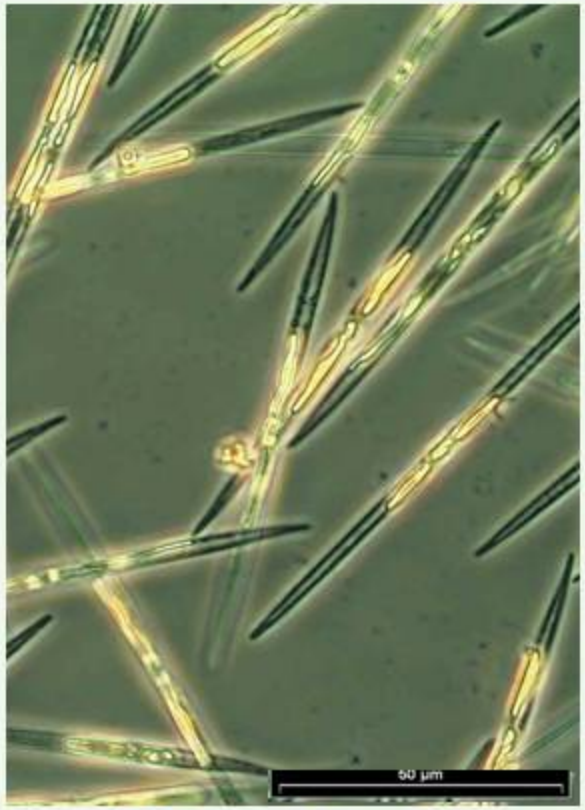
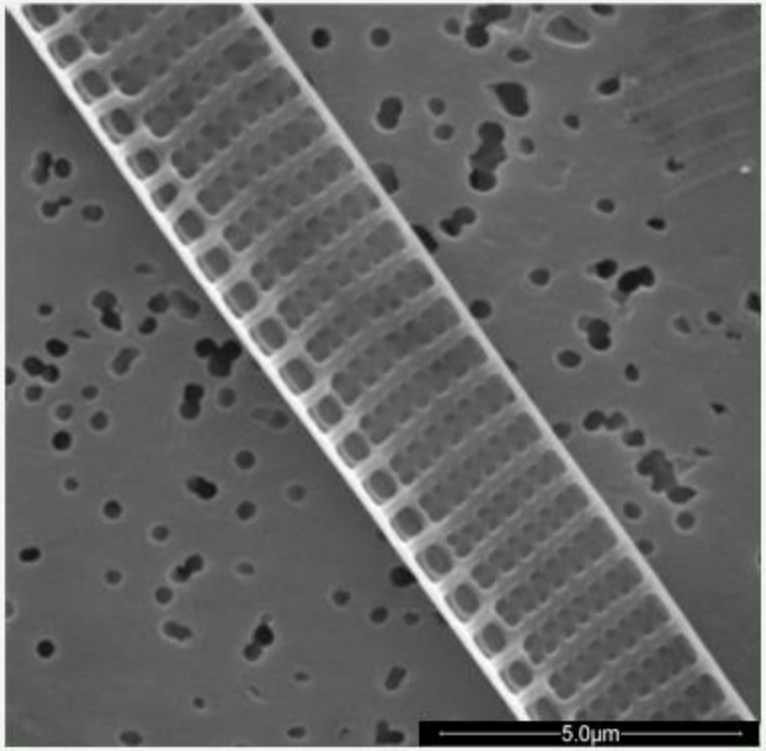
abundance: spring to autumn
life-form: solitary or in chains
length: 70 - 140 µm
width: 2,5 - 4,5 µm
cell overlap: one third or more of cell length

LM (North Sea, SWWBA)



LM (coastal station Heiligendamm)



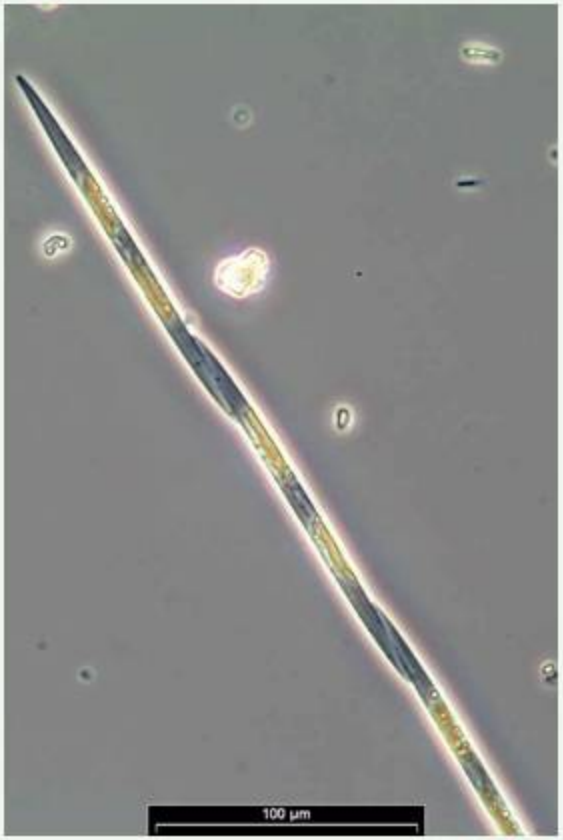
REM (North Sea, SWWBA)

LM (North Sea, HELGO) cleaned material

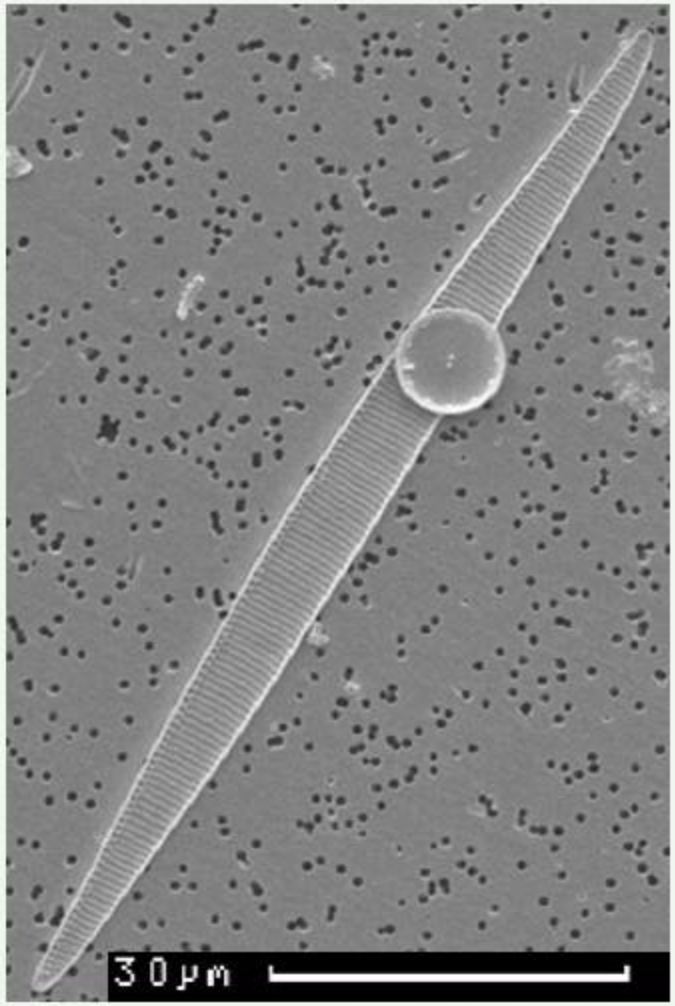
phytoplankton - bacillariophyceae

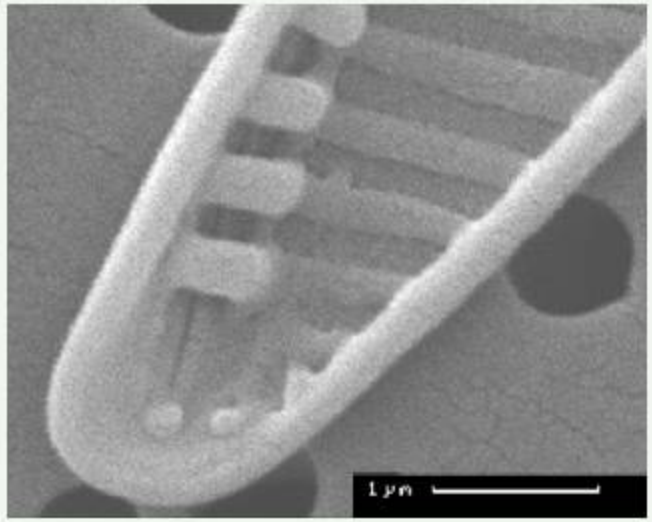
Pseudo-nitzschia seriata

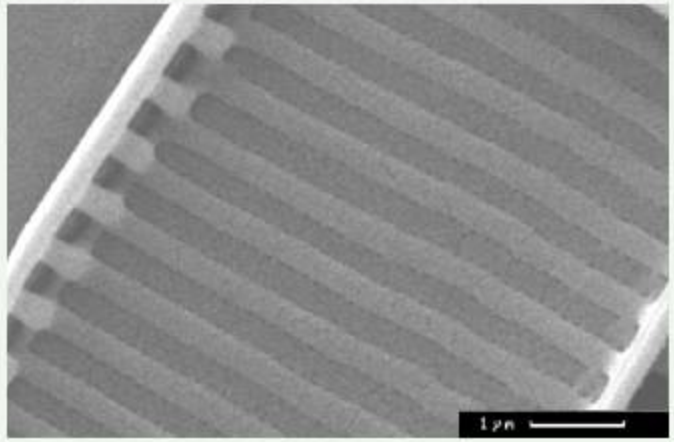
abundance: winter, spring
life-form: in chains
length: 90 - 160 µm
width: 5,5 - 8µm



LM (coastal station Heiligendamm)





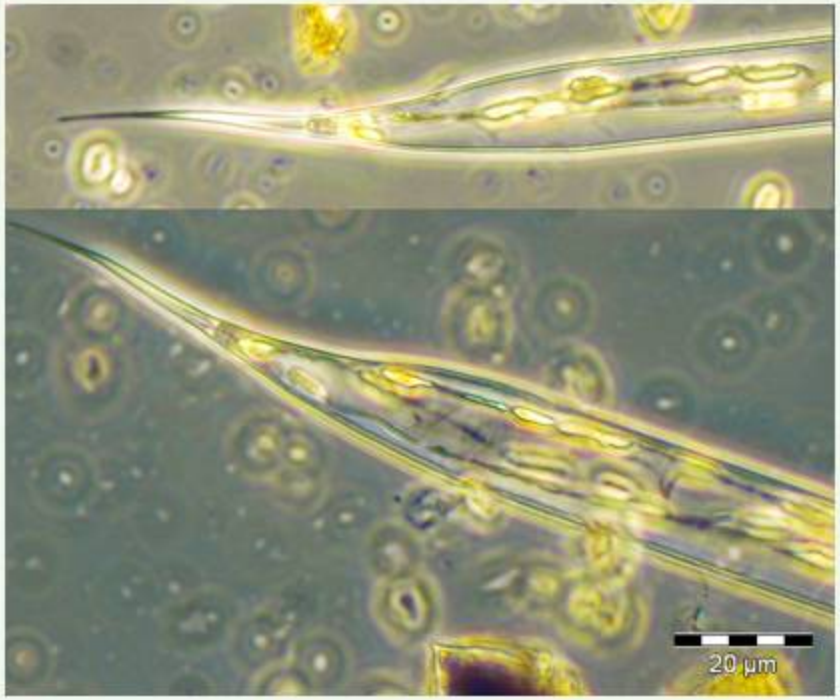


REM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Pseudosolenia calcar-avis

abundance: summer, autumn
life-form: solitary
diameter: 5 - 190µm



LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Rhizosolenia antennata f. antennata

abundance: spring
life-form: solitary
diameter: 18 – 45µm

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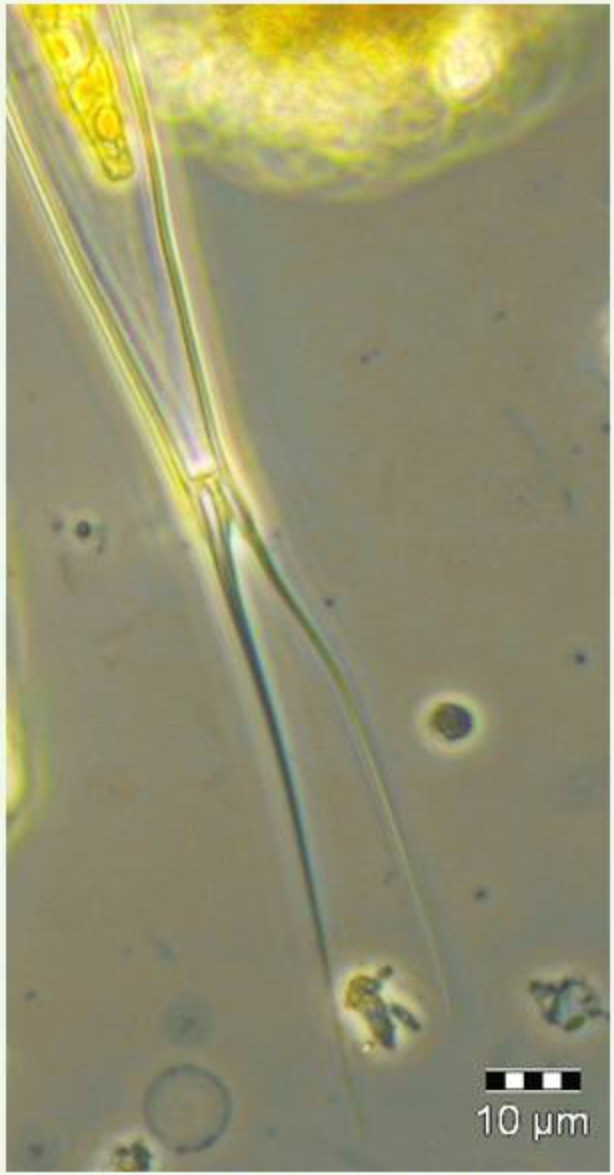
IOW

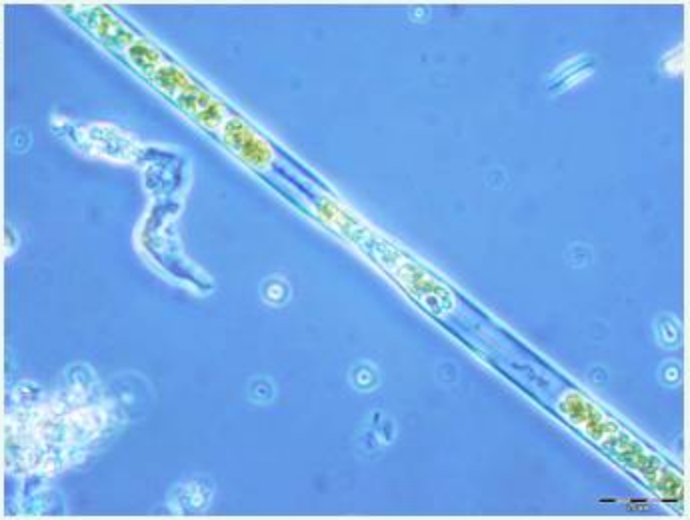


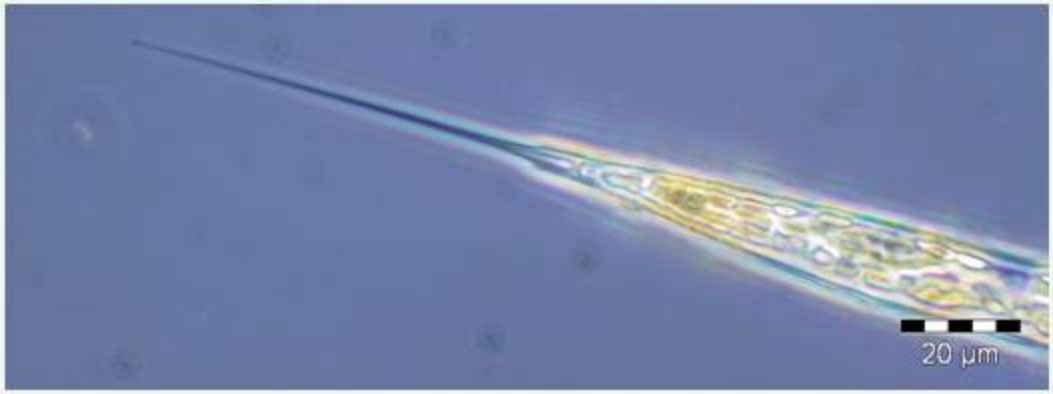
LM (North Sea, NGW8)

phytoplankton - bacillariophyceae

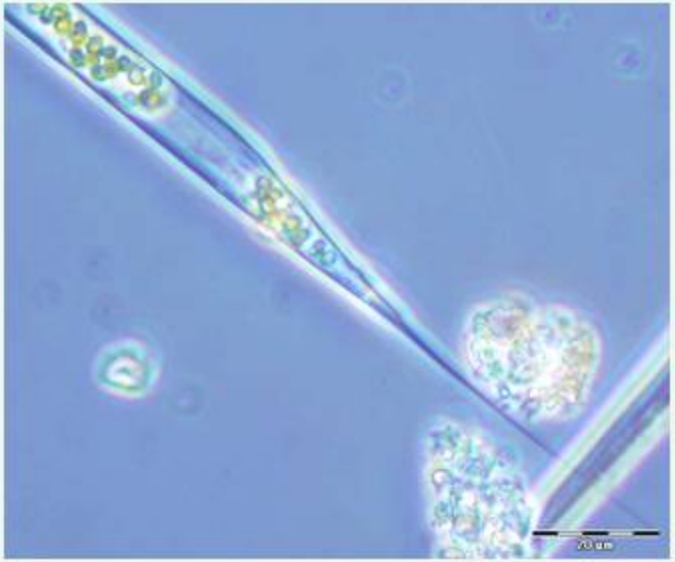
Rhizosolenia hebetata f. semispina

abundance: spring
life-form: solitary or in pairs
diameter: 2.5 – 25µm





LM (North Sea, SYLT1)

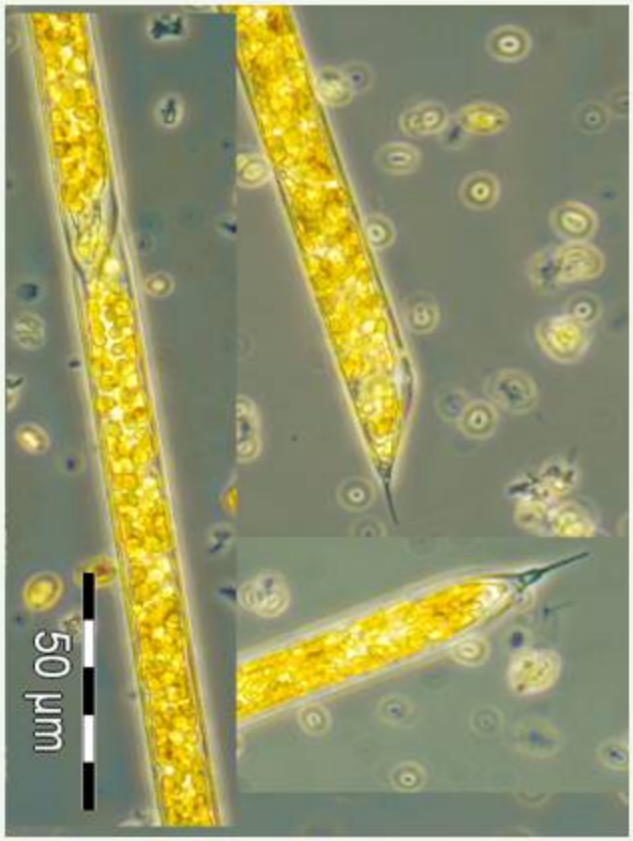


LM (coastal station Heiligendamm)

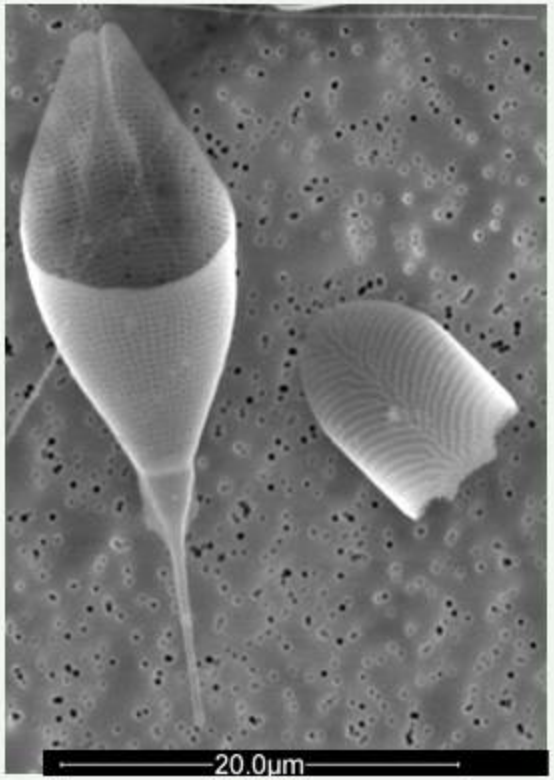
phytoplankton - bacillariophyceae

Rhizosolenia imbricata

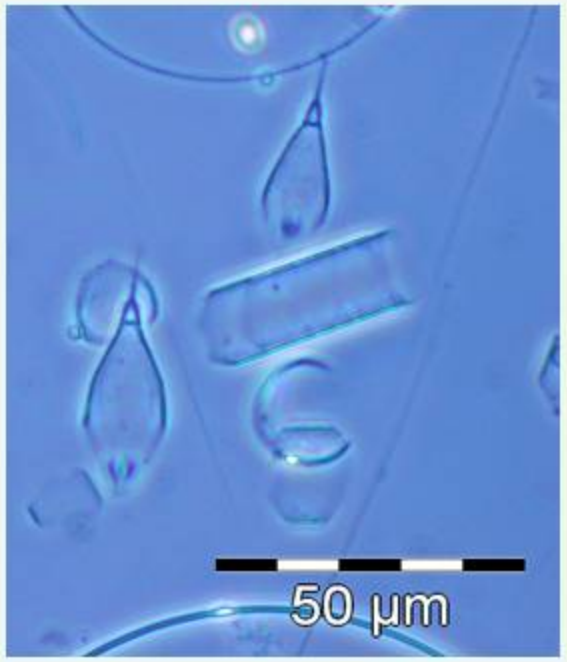
abundance: spring, summer, autumn
life-form: solitary or in chains
diameter: 2.5 - 57µm



LM (North Sea, UFSDB)



REM

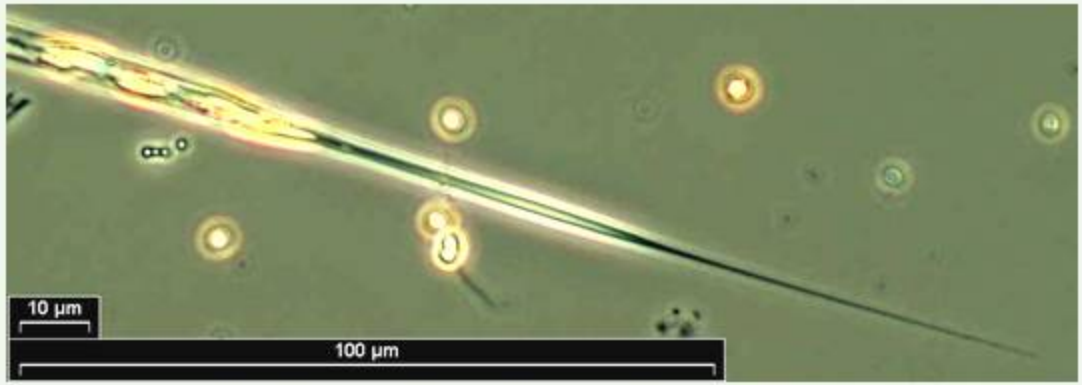


LM cleaned material

phytoplankton – bacillariophyceae

Rhizosolenia pungens

life-form: solitary
diameter: 8 – 14 µm



LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Rhizosolenia setigera

abundance: spring, summer
life-form: solitary
diameter: 15 - 50µm

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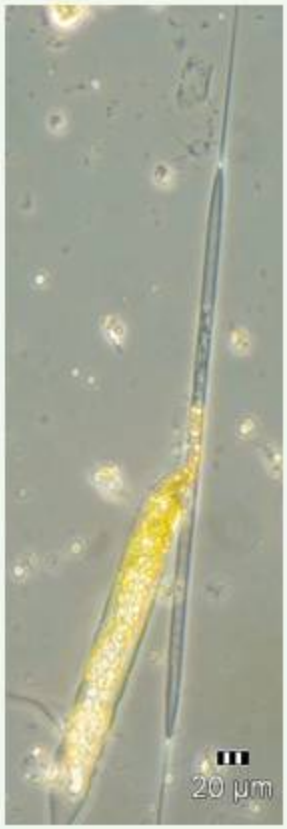
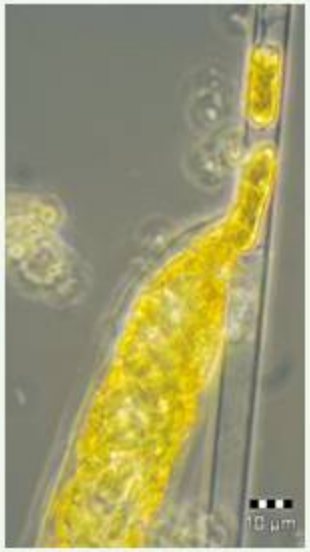
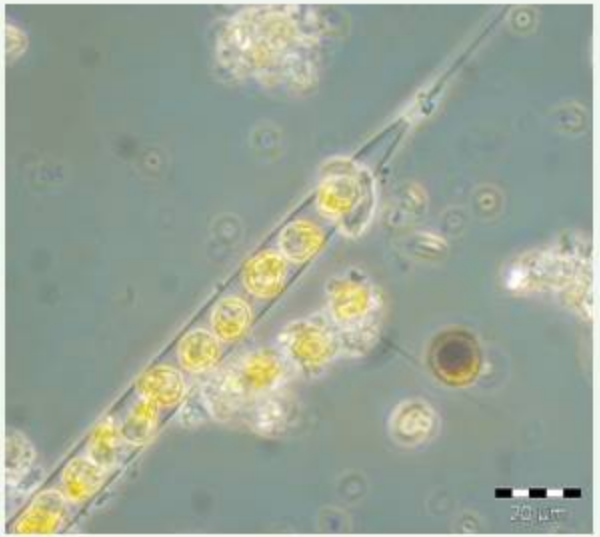
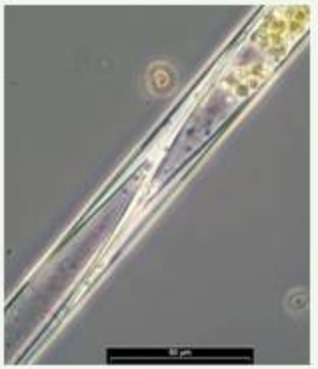
IOW

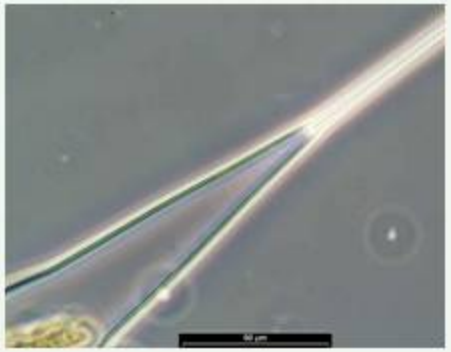


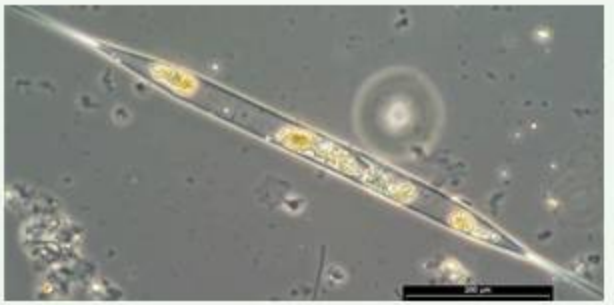




LM (North Sea, SYLT1)





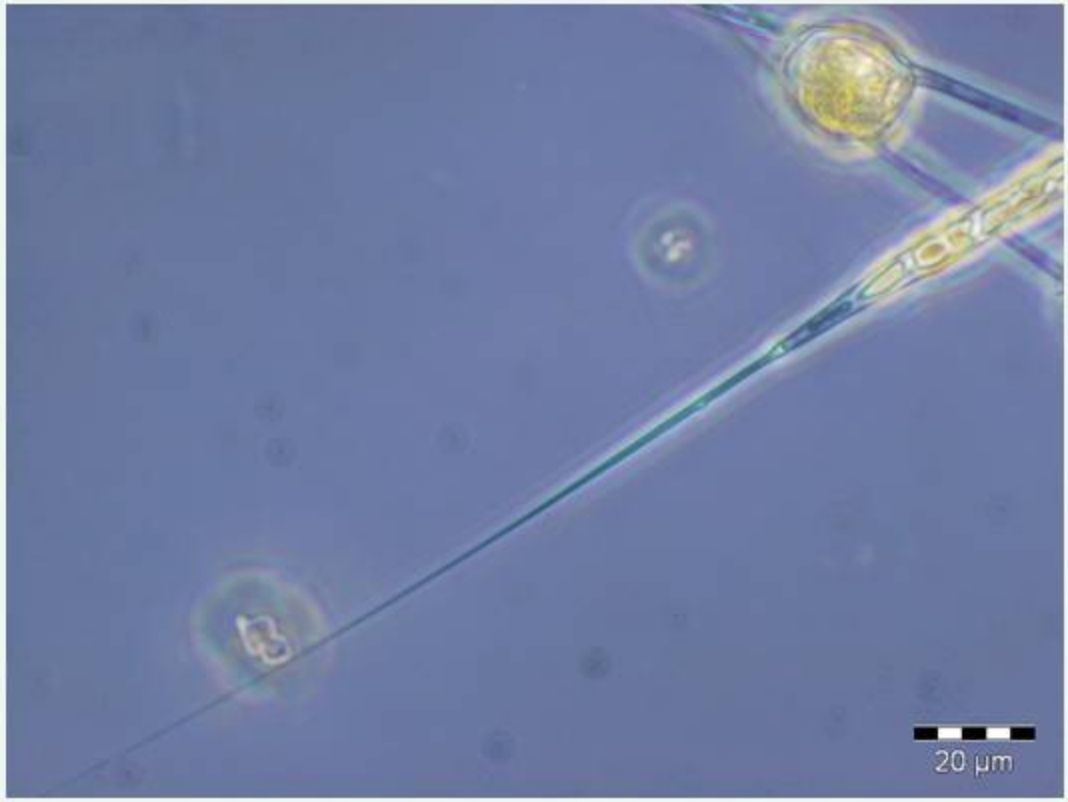


LM (coastal station Heiligendamm)

phytoplankton - bacillariophyceae

Rhizosolenia similoides

abundance: spring
life-form: solitary
diameter: 5-6µm



LM (North Sea, HELGO)

phytoplankton - bacillariophyceae

Rhizosolenia styliformis

abundance: spring, summer, autumn
life-form: solitary
diameter: 23 - 90µm

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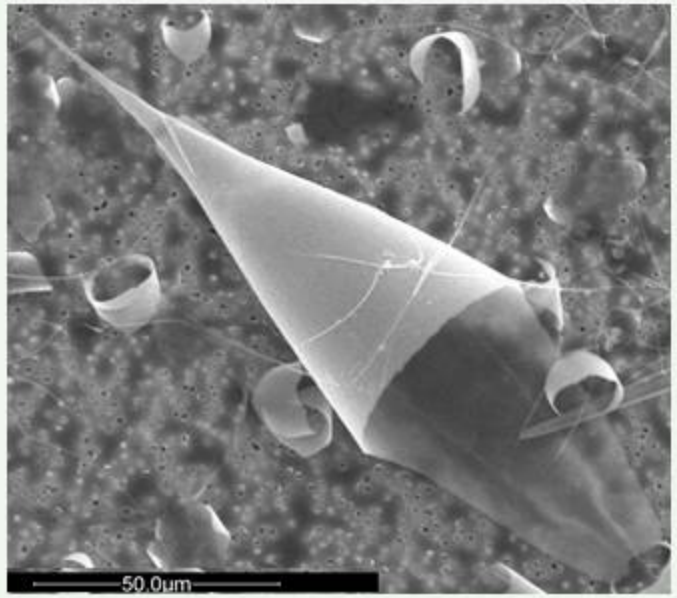
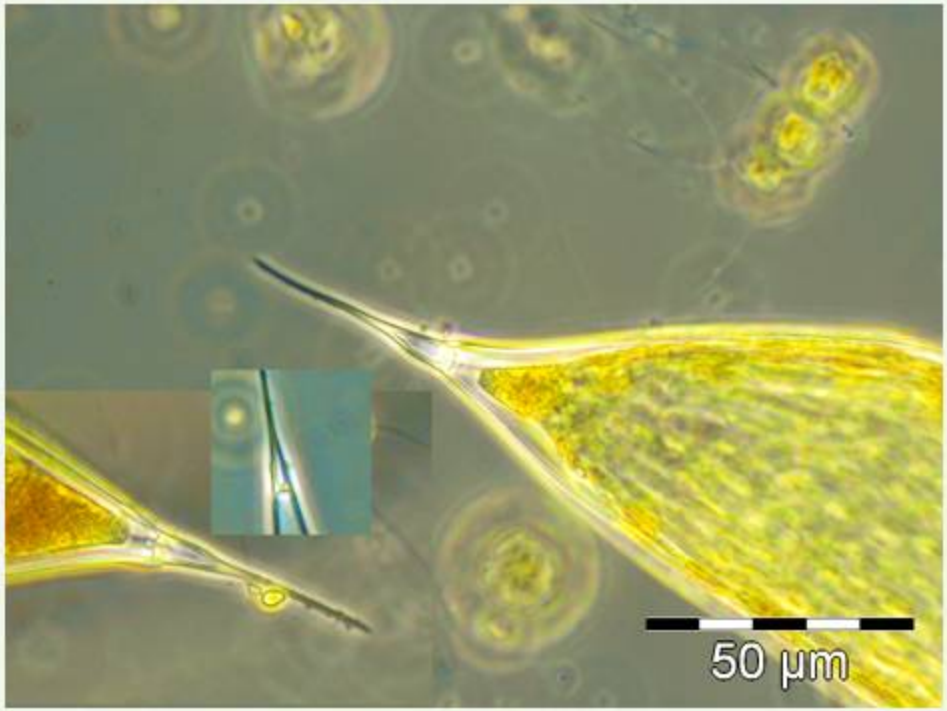
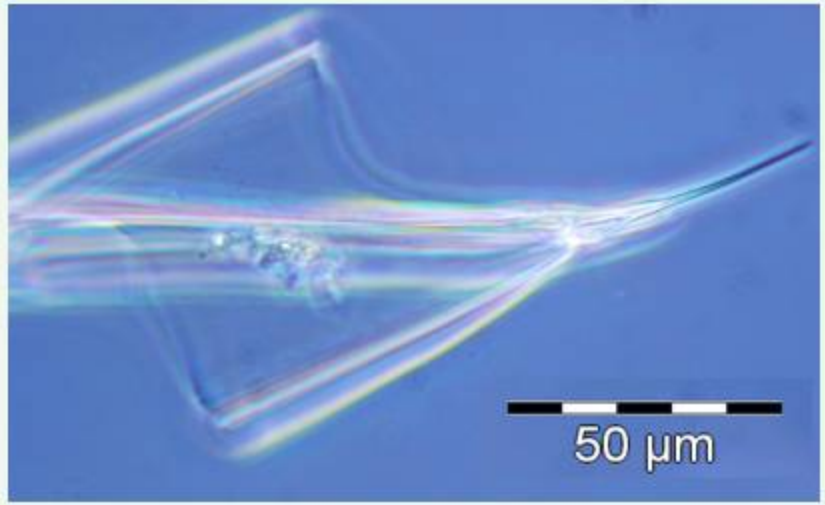
IOW



REM



LM (North Sea, UFSDB)

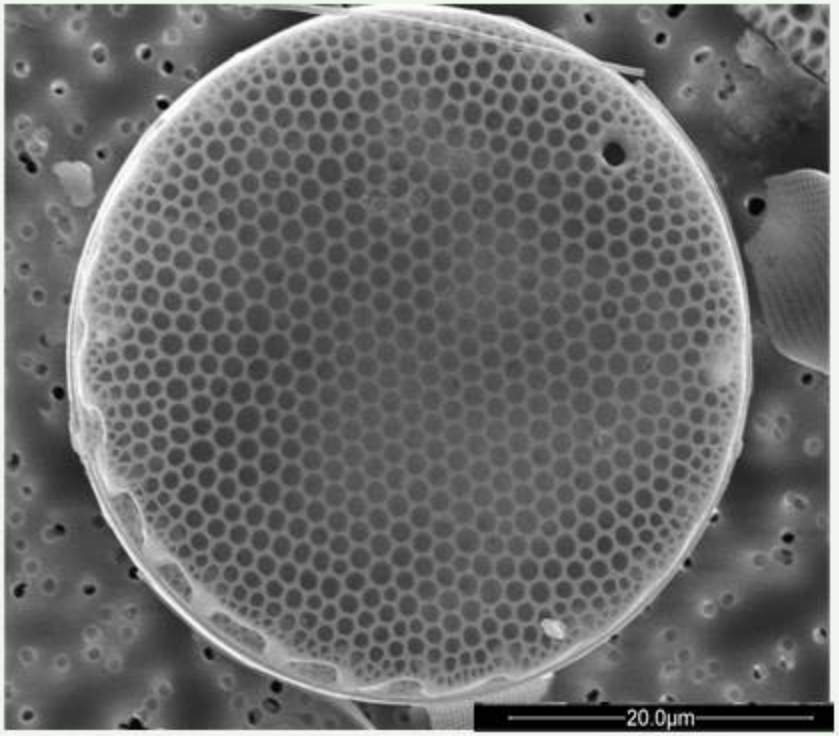


LM cleaned material

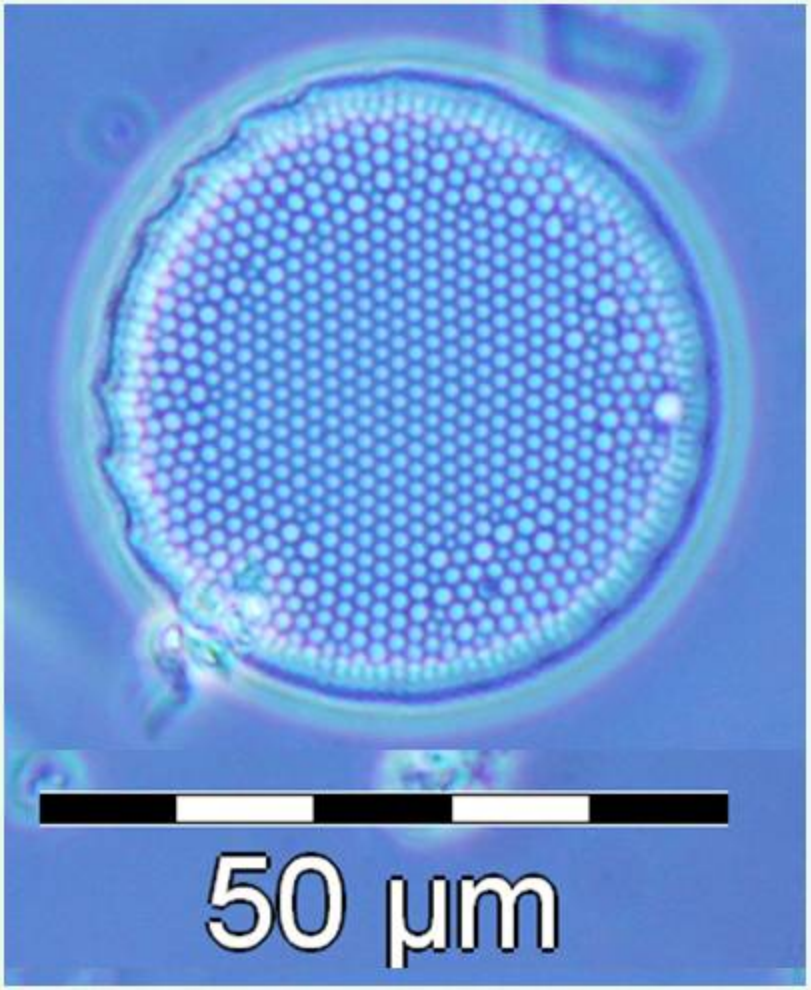
phytoplankton - bacillariophyceae

Roperia tesselata

abundance: summer, autumn
life-form: solitary
diameter: 40-70µm



REM (North Sea, NGW8)

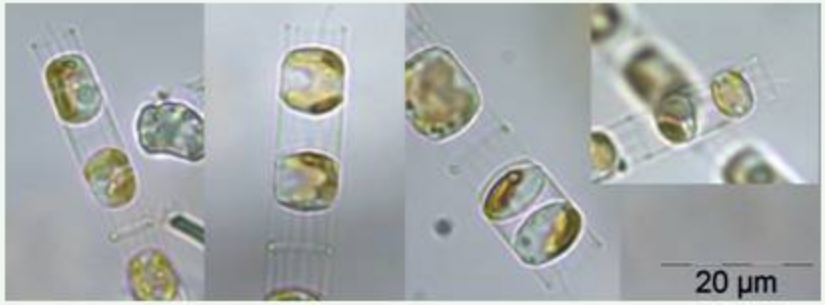


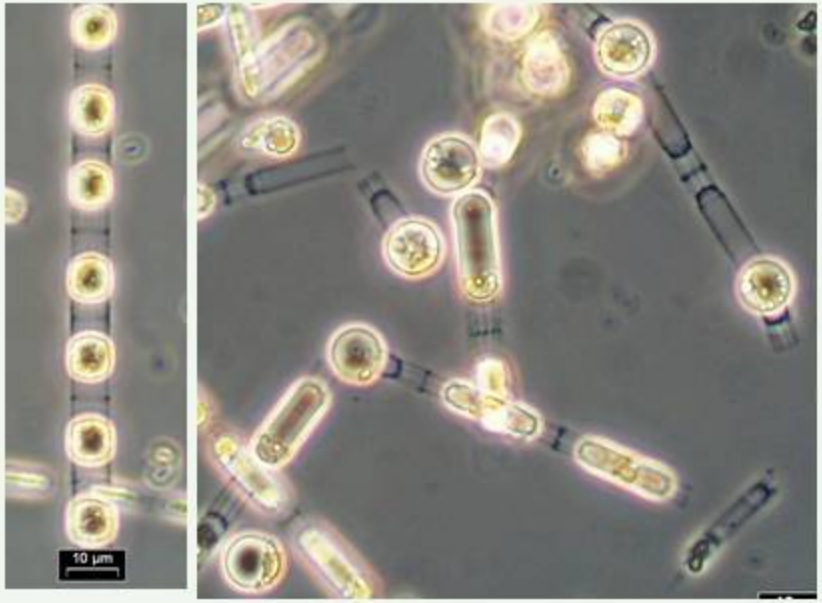
LM cleaned material

phytoplankton -bacillariophyceae

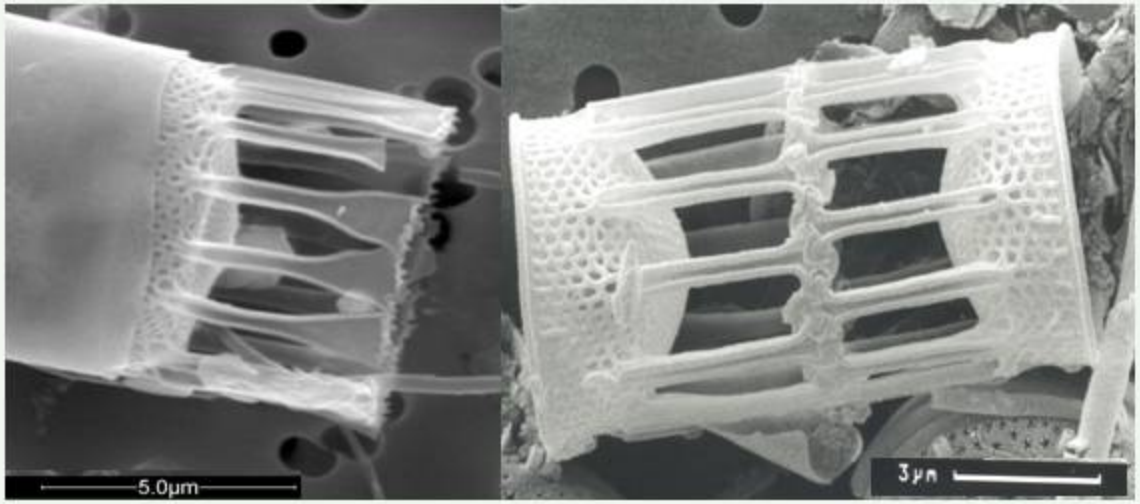
Skeletonema marinoi

abundance: spring, summer, autumn
life-form: in long chains
diameter: 2-12µm

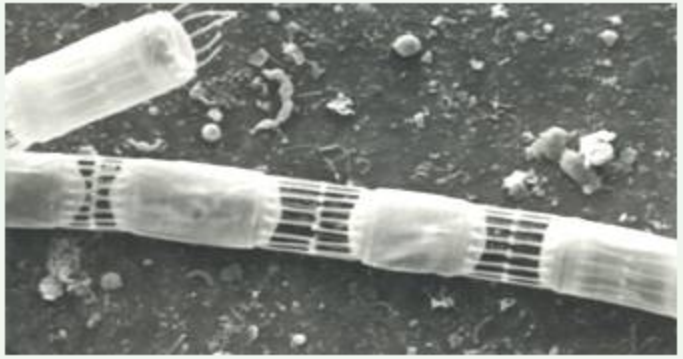


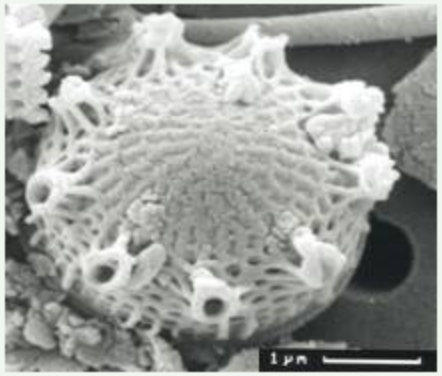


LM (coastal station Heiligendamm)



(coastal station Heiligendamm)





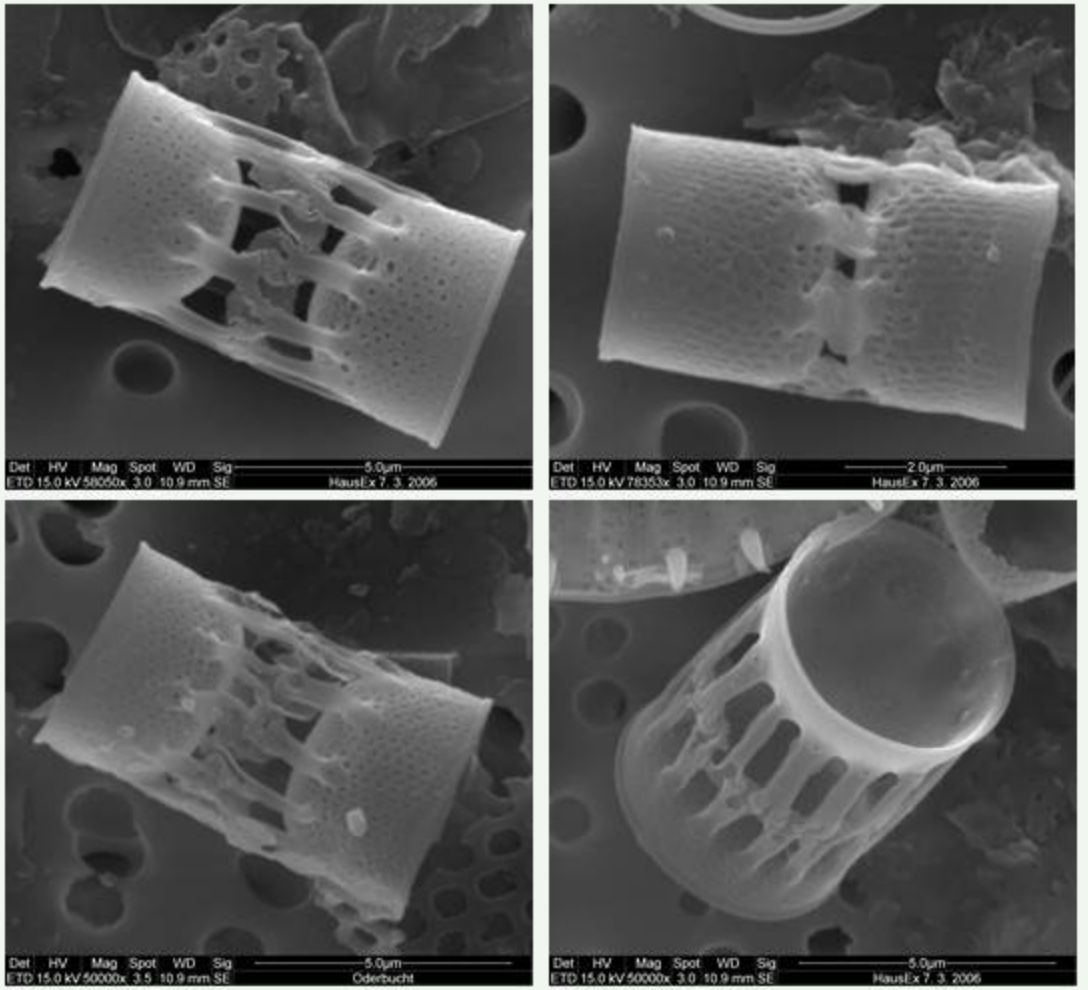
REM (Gotland Sea)

phytoplankton -bacillariophyceae

Skeletonema subsalsum

abundance: spring, summer, autumn
life-form: in long chains
diameter: 4-8µm

LM (Oder Bight)

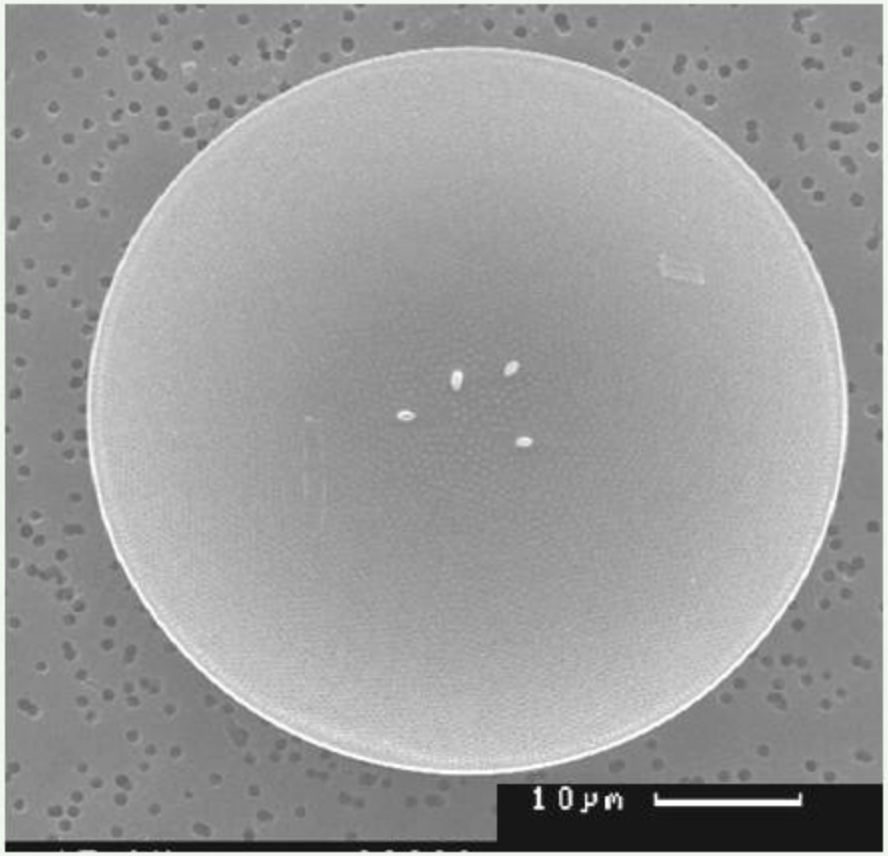


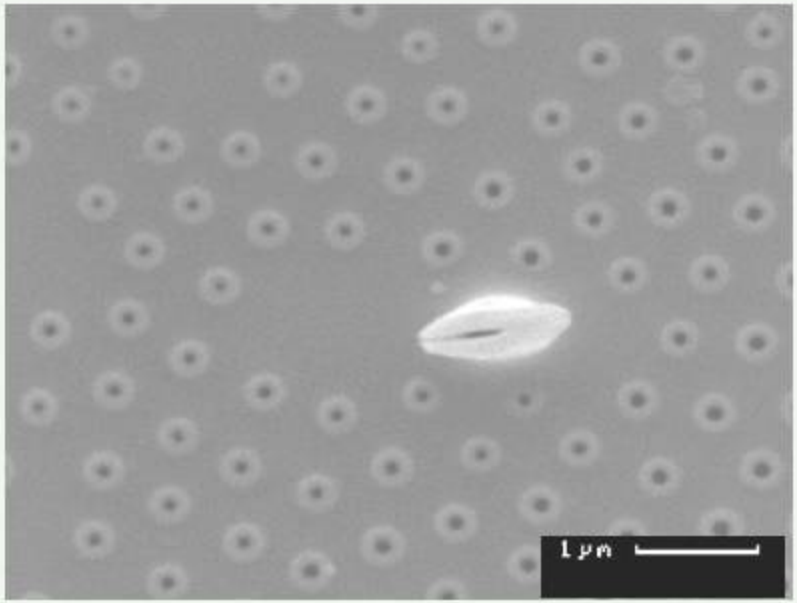
REM (Oder Bight)

phytoplankton - bacillariophyceae

Stellarima stellaris

abundance: autumn, winter
life-form: solitary
diameter: 60 – 175µm



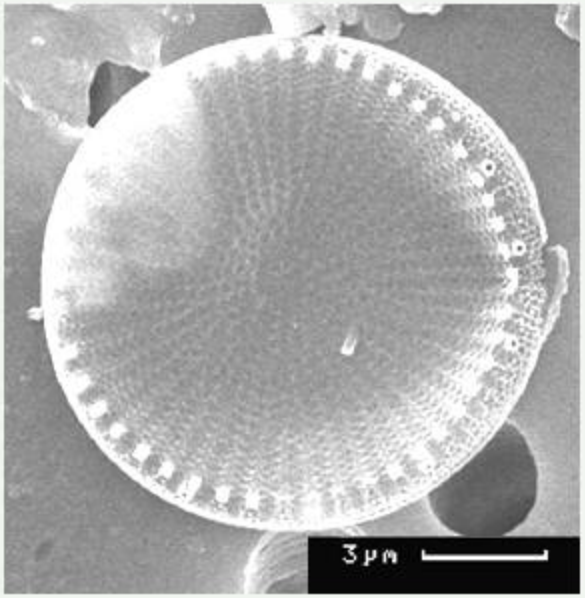


REM (coastal station Heiligendamm)

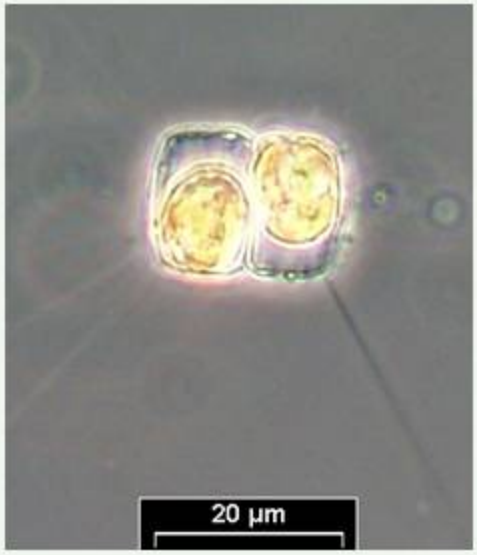
phytoplankton – bacillariophyceae

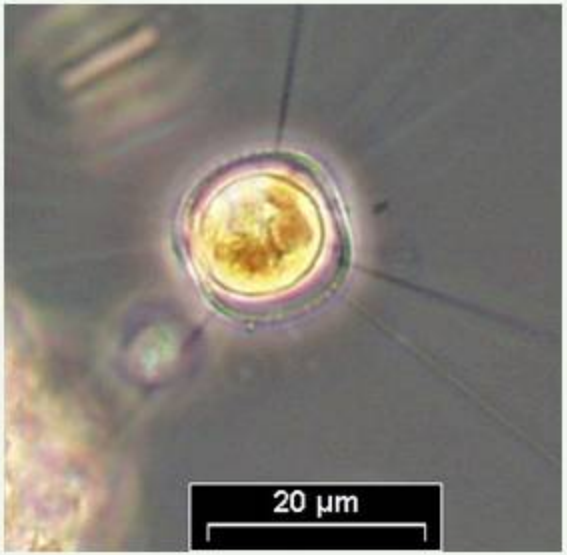
Stephanodiscus hantzschii

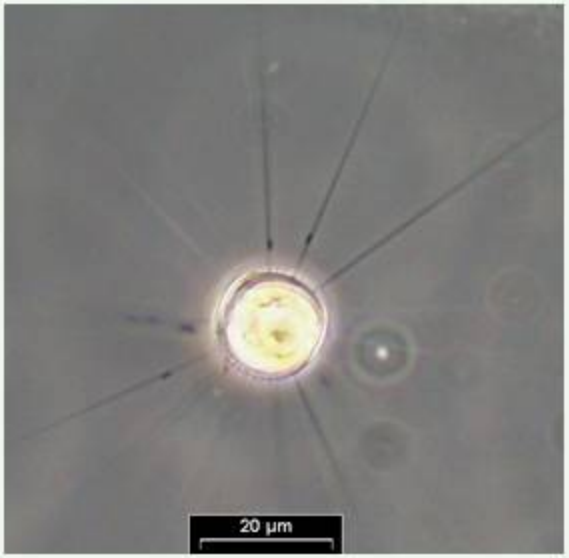
abundance: spring
life-form solitary or in short chains
diameter: 8 - 20µm



REM (coastal station Heiligendamm)





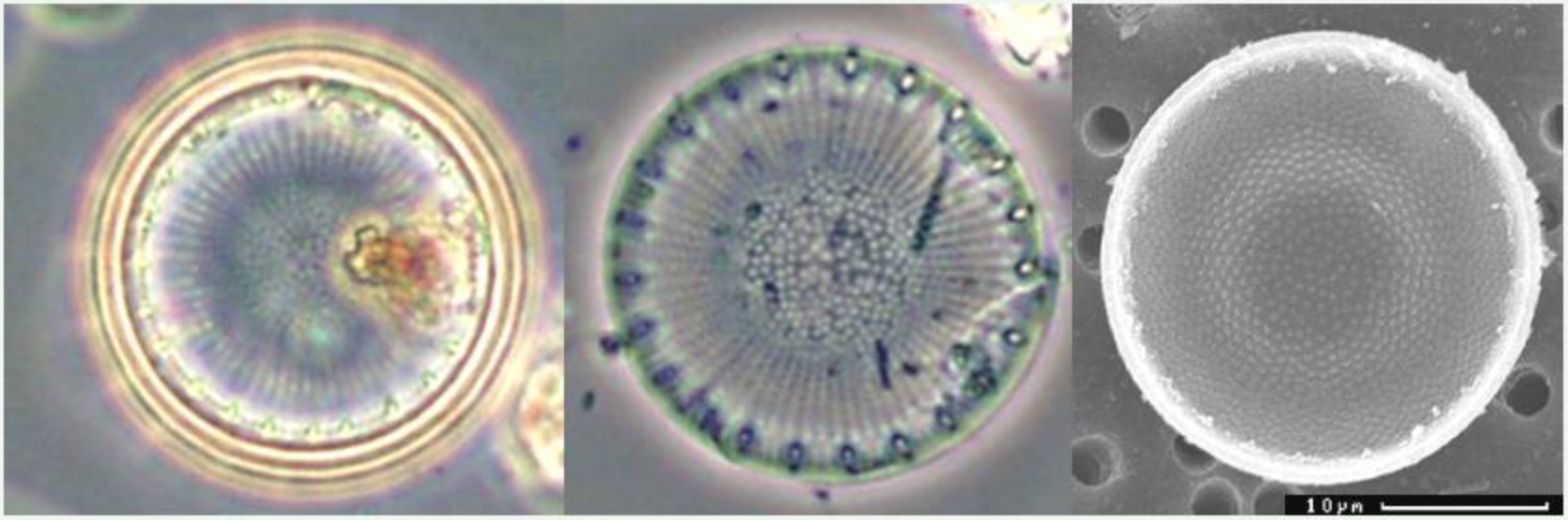


LM (coastal station Heiligendamm)

phytoplankton – bacillariophyceae

Stephanodiscus rotula

abundance: spring
life-form: solitary
diameter: 20-40µm



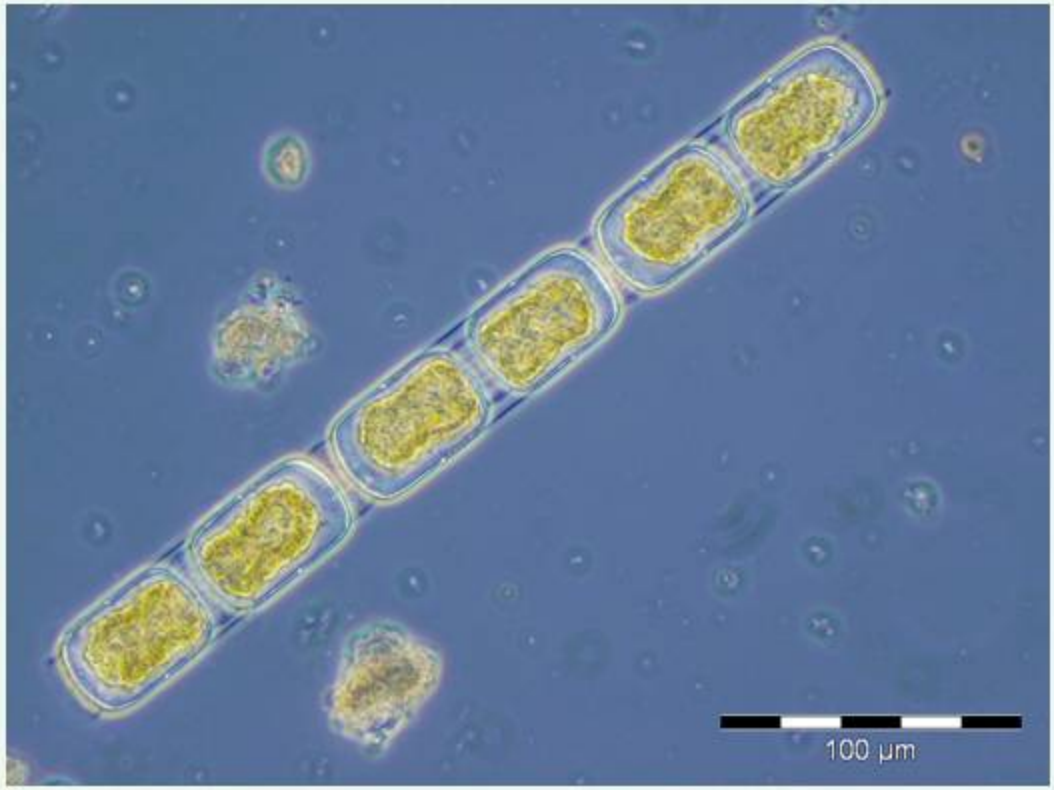
LM (Gotland Sea, sediment trap)

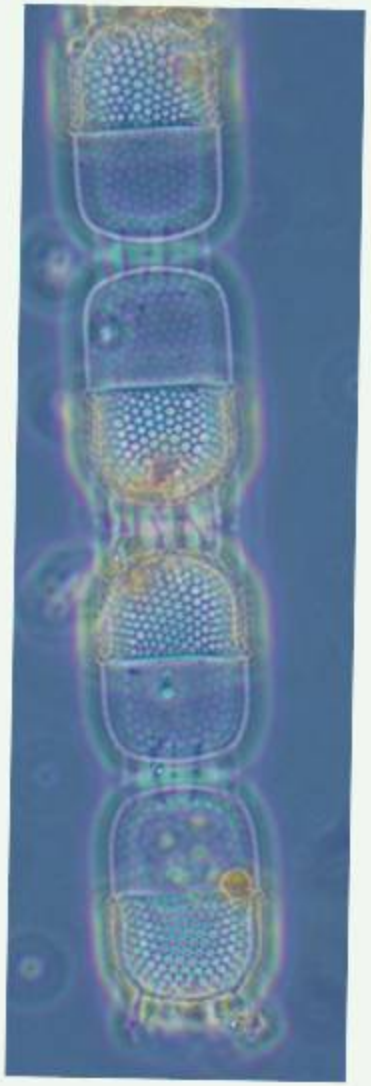
REM

phytoplankton - bacillariophyceae

Stephanopyxis turris

abundance: spring, summer, autumn
life-form: solitary
diameter: 10 - 115µm



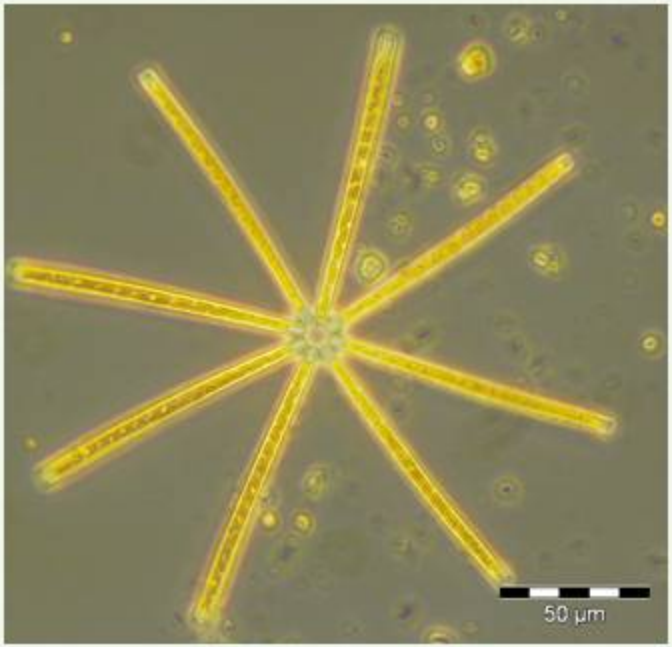


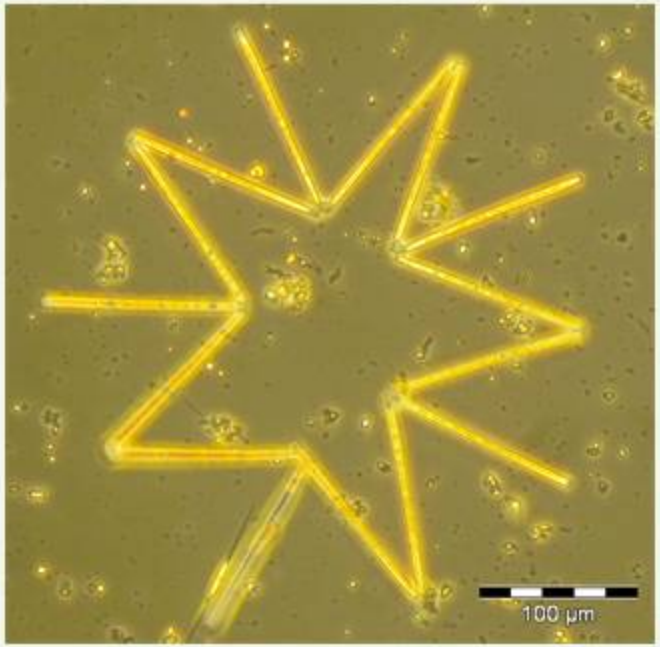
LM (North Sea, URST3)

phytoplankton - bacillariophyceae

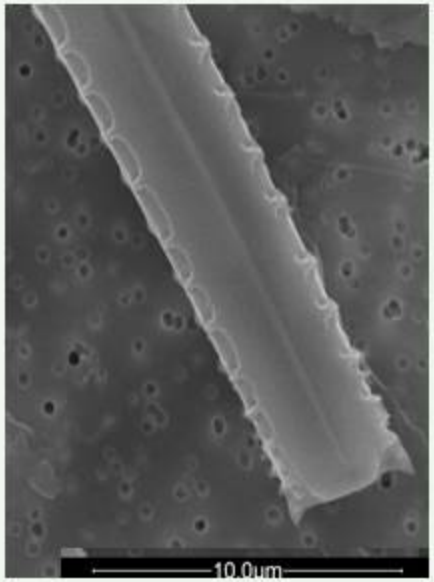
Thalassionema frauenfeldii

abundance: summer, autumn
life-form: in fan to starshaped colonies
apical axis: 54-200µm





LM (North Sea, UFSDB)

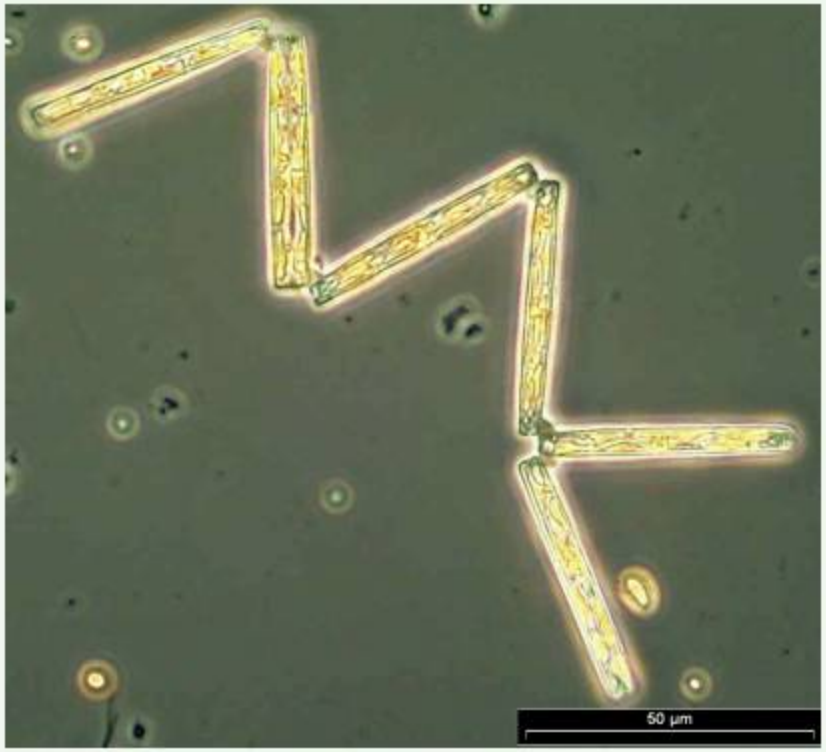


REM (North Sea, UFSDB)

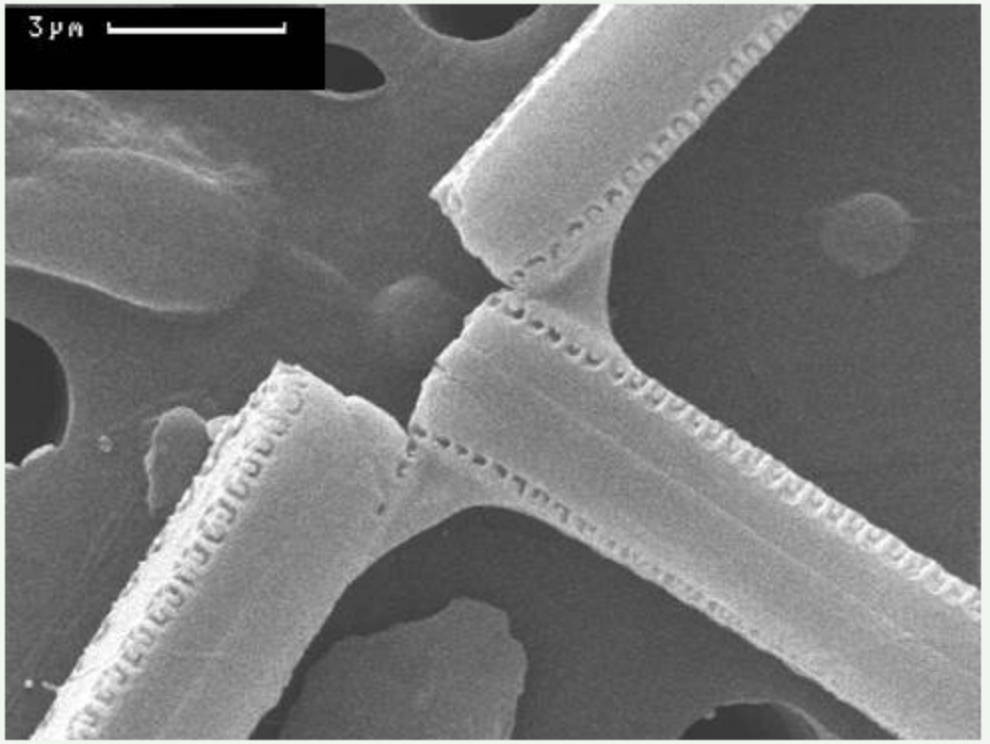
phytoplankton – bacillariophyceae

Thalassionema nitzschioides

abundance: spring, autumn
life-form: solitary or in chains
cell- length: 10 -110 µm
cell -width: 2 - 3 µm



LM (coastal station Heiligendamm)

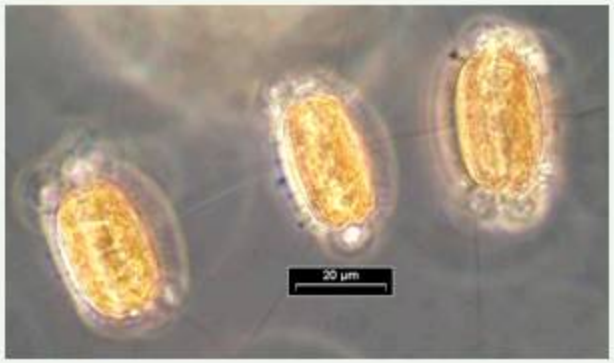


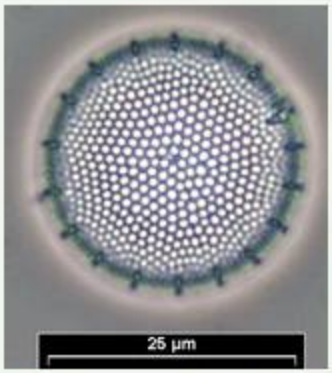
REM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

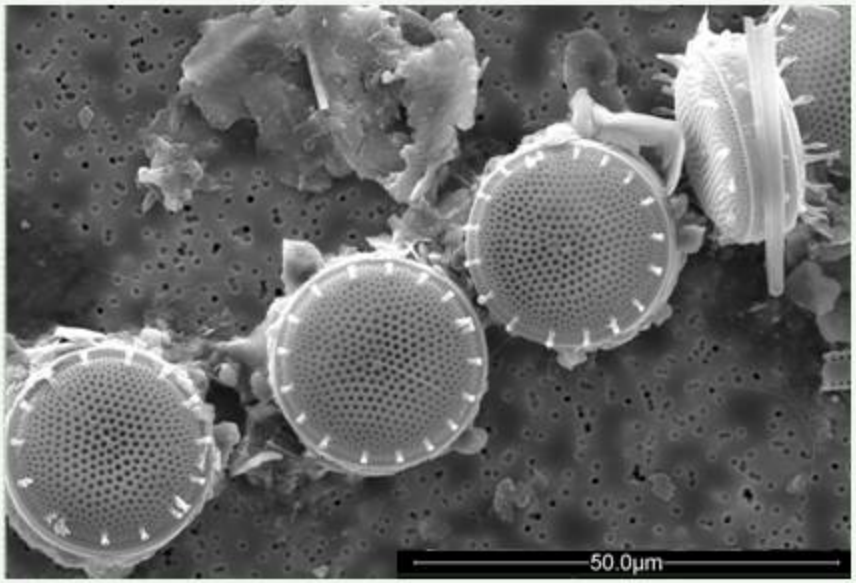
Thalassiosira angulata

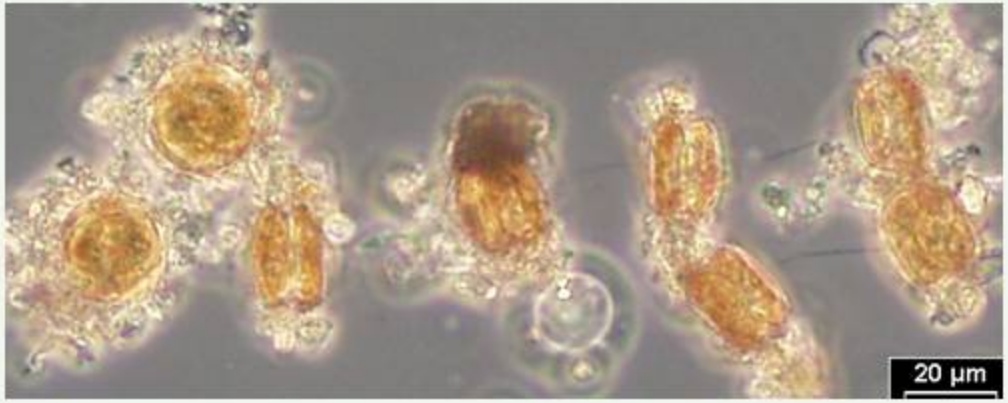
abundance: spring
life-form: in loose chains
diameter: 12 – 40µm



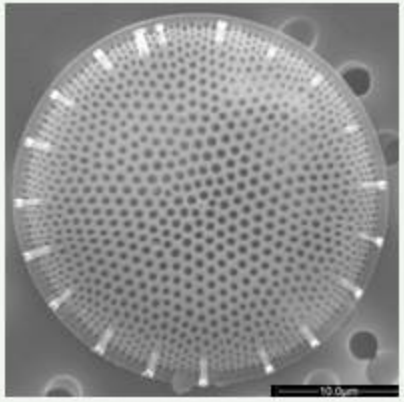


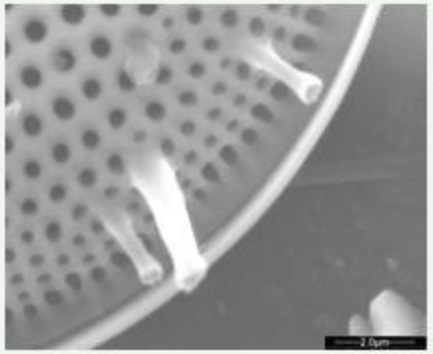
LM cleaned material





LM (Mecklenburg Bight)





REM (Mecklenburg Bight)

phytoplankton - bacillariophyceae

Thalassiosira anguste-lineata

abundance: spring
life-form: in loose chains
diameter: 20 - 75µm

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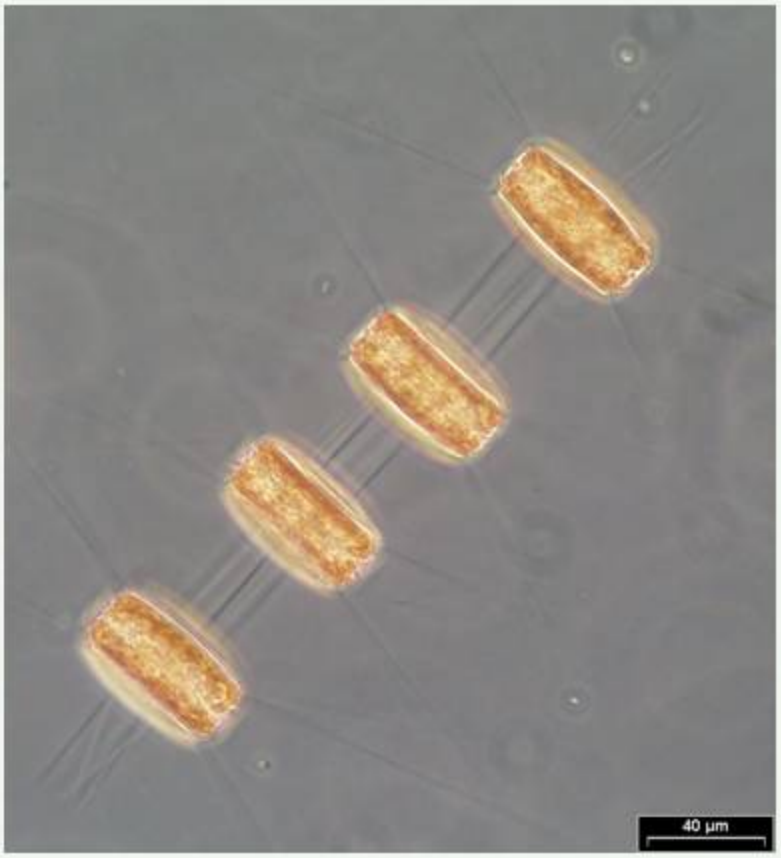
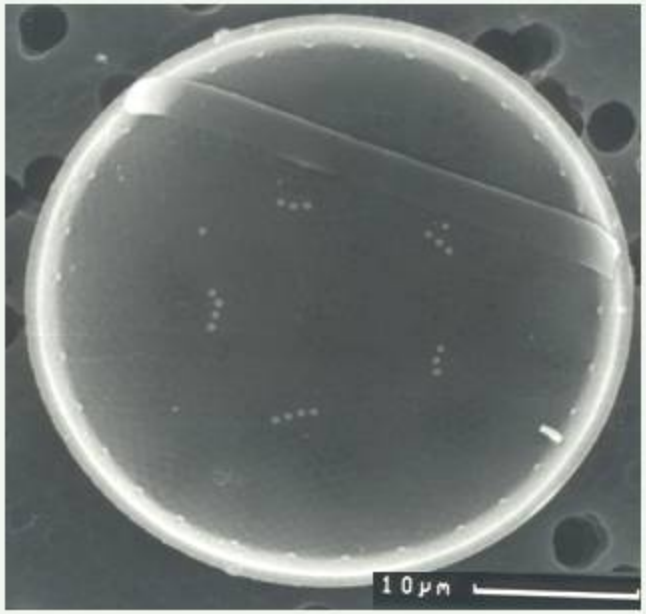
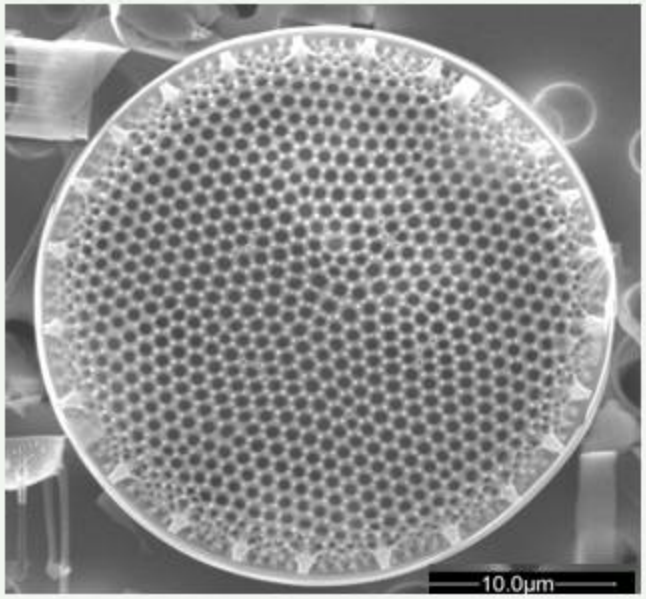


LM (coastal station Heiligendamm)



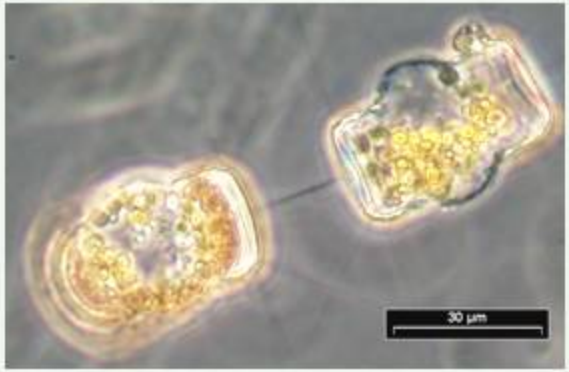


REM (coastal station Heiligendamm)

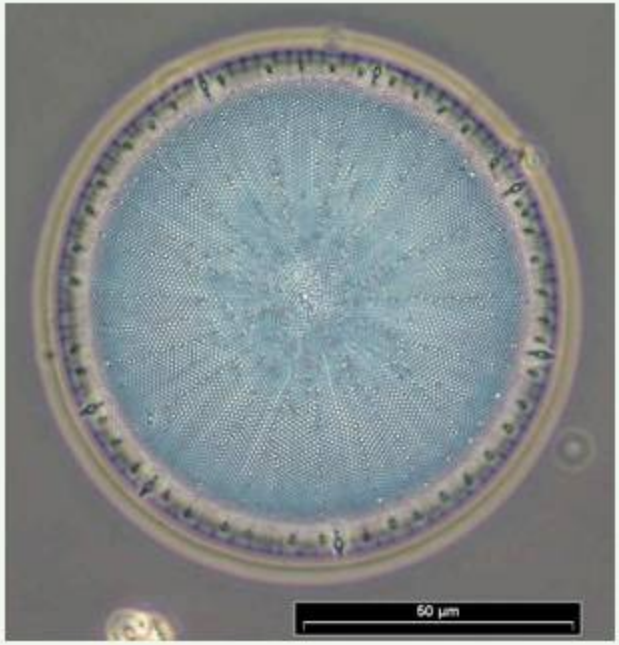
phytoplankton - bacillariophyceae

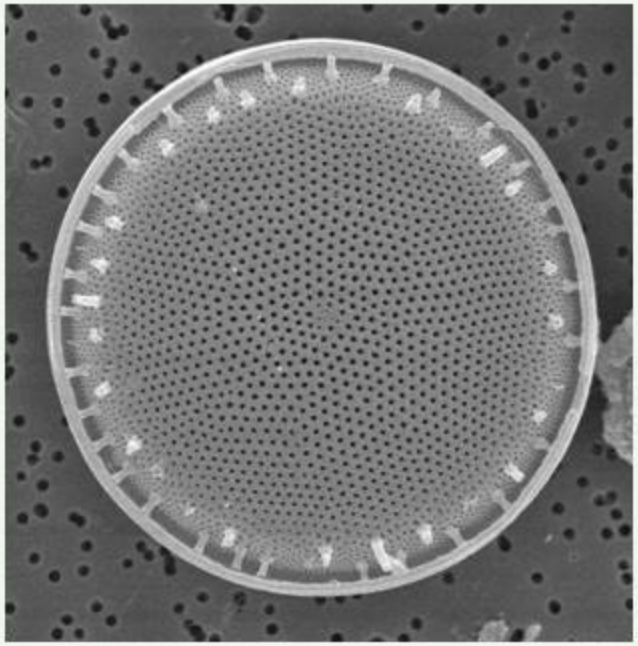
Thalassiosira baltica

abundance: spring/summer
life-form: cells in loose chains
size: 40 - 80µm

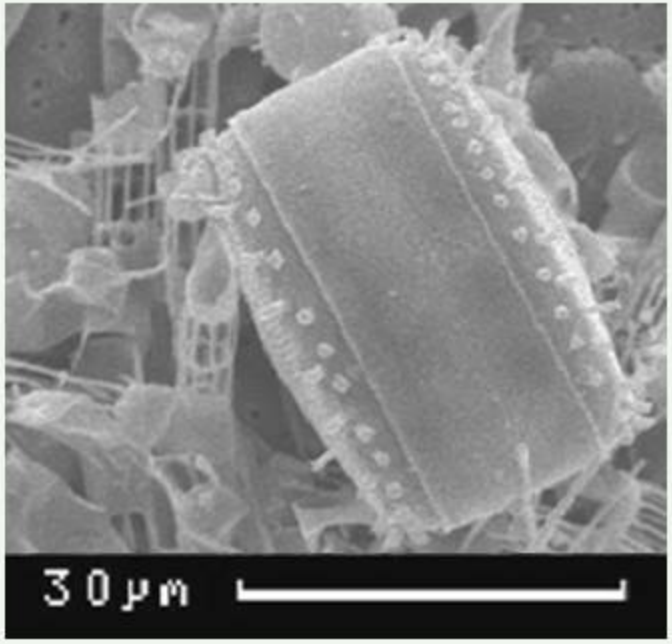


LM (North Sea, ES1)





LM (Gotland Sea, sediment trap)

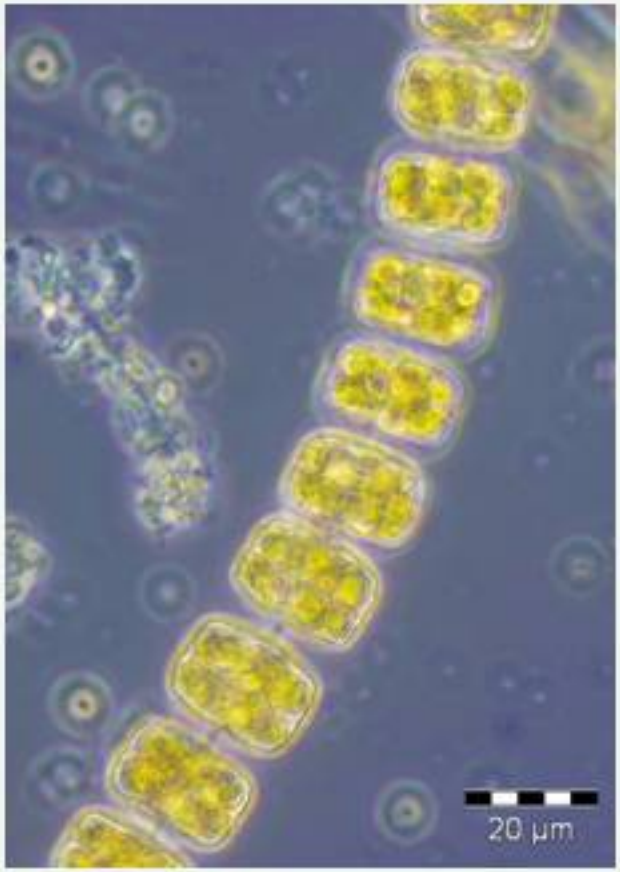


REM (Gotland Sea, sediment trap)

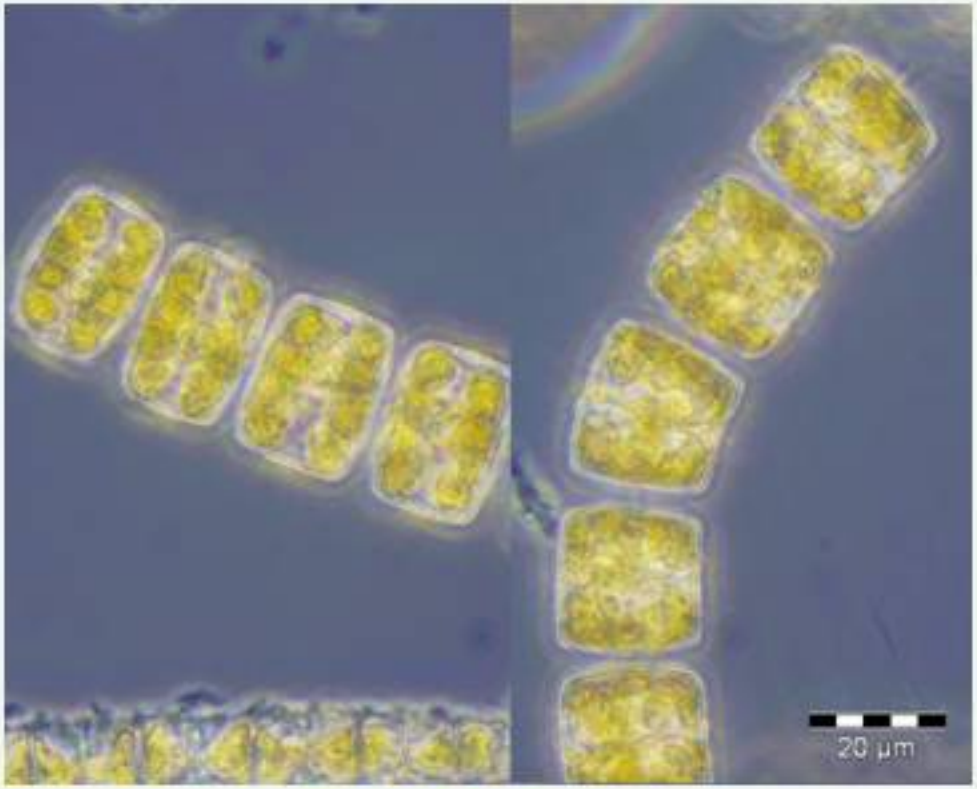
phytoplankton - bacillariophyceae

Thalassiosira constricta

abundance: spring
life-form: in chains
diameter: 12-32 µm



LM (North Sea, AMRU2)

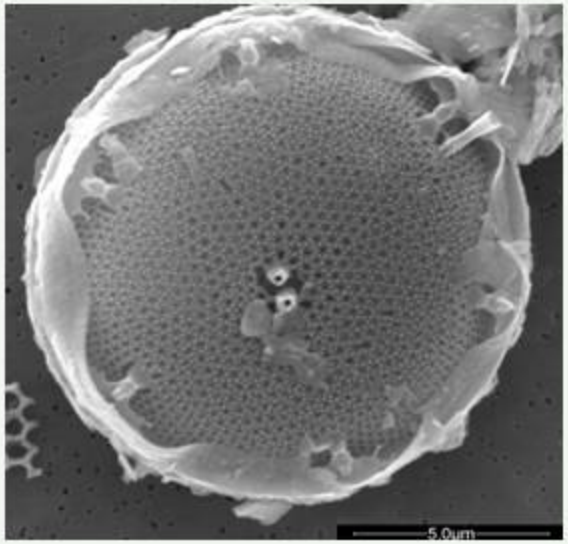


LM (North Sea, Sylt1)

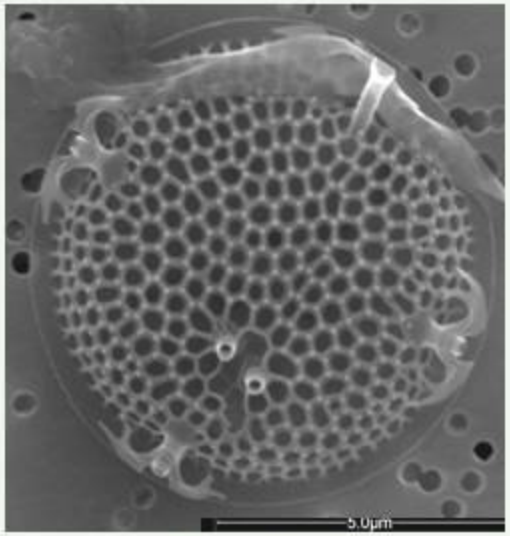
phytoplankton - bacillariophyceae

Thalassiosira curviseriata

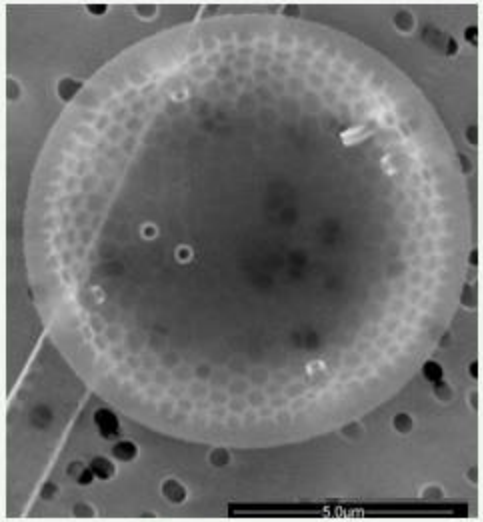
abundance: autumn, winter, spring
life-form: in chains
diameter: 5-14 µm



REM (North Sea, NSB3)



valve exterior



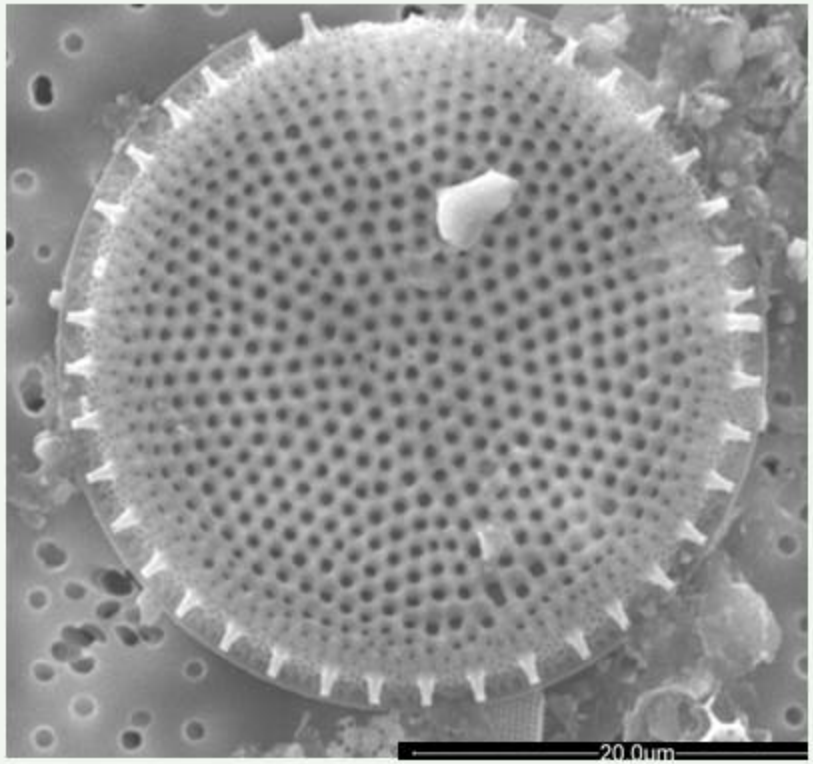
valve interior

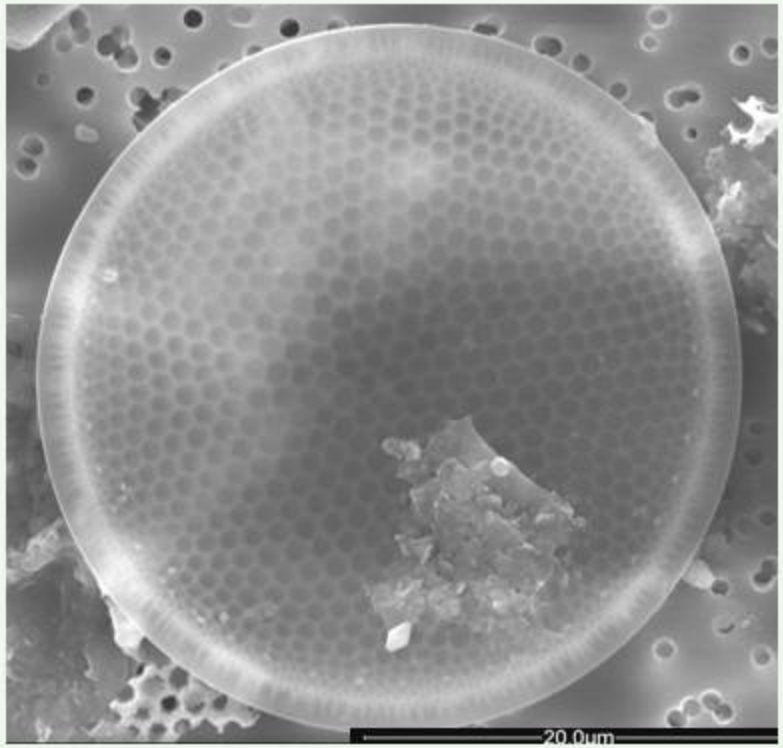
REM (North Sea, SYLT1)

phytoplankton - bacillariophyceae

Thalassiosira decipiens

abundance: autumn, winter
life-form: in loose chains
diameter: 9 – 40µm



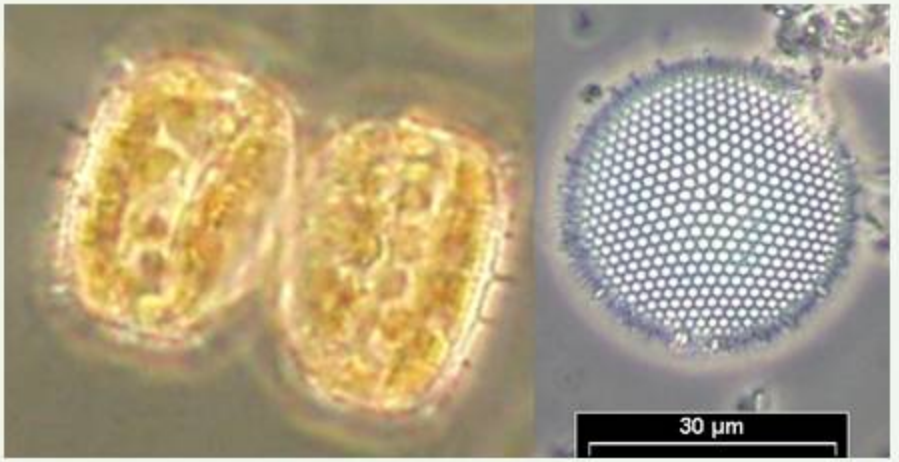


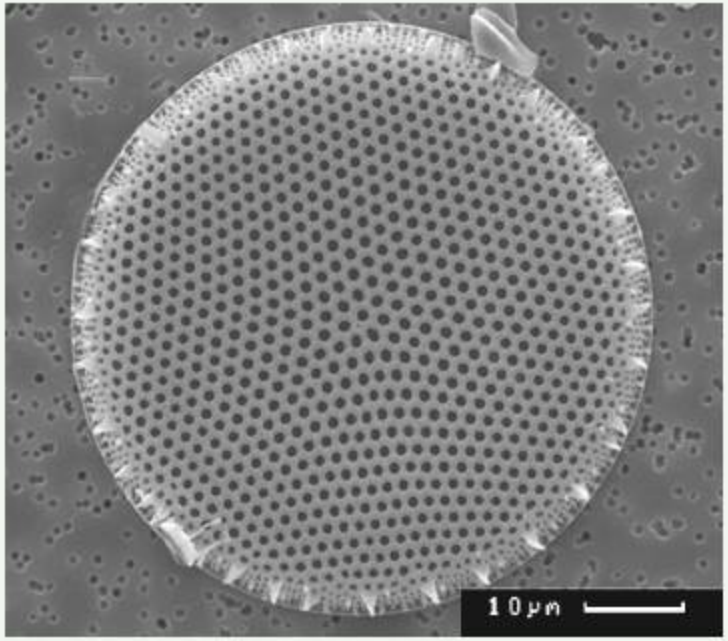
REM (sediment trap,Gotland Sea)
cleaned material

phytoplankton - bacillariophyceae

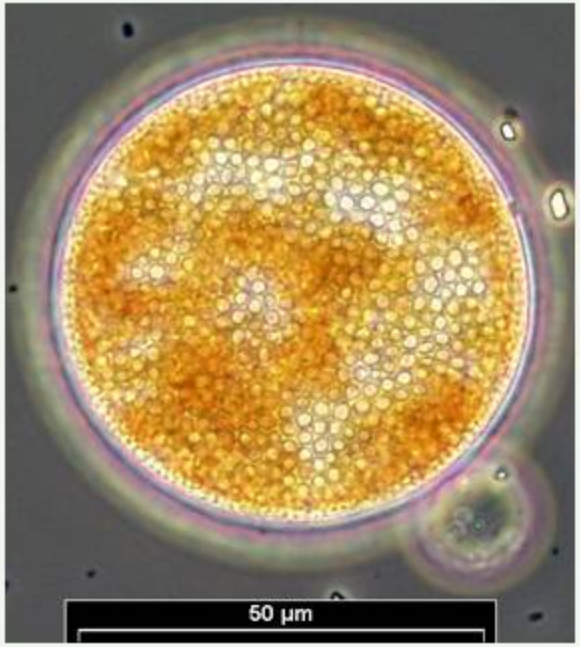
Thalassiosira eccentrica

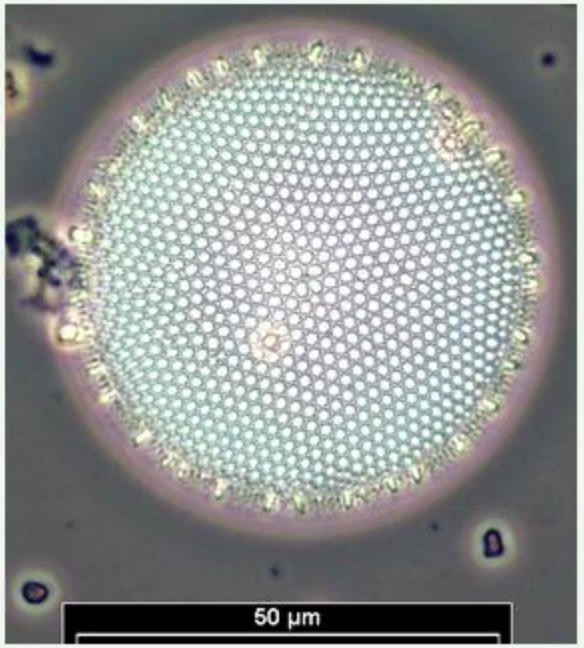
abundance: spring, autumn, winter
life-form: solitary or in short chains
diameter: 20 - 100µm





REM (coastal station Heiligendamm)



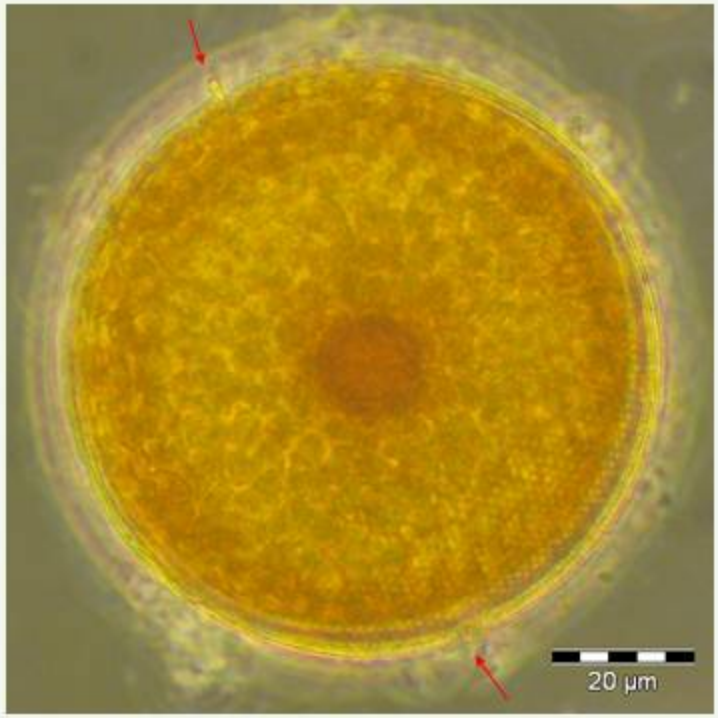


LM (coastal station Heiligendamm)

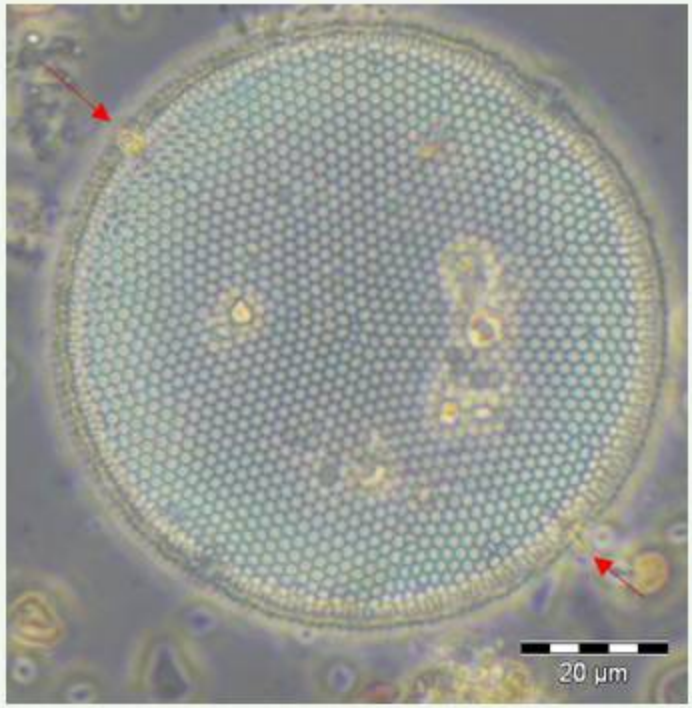
phytoplankton – bacillariophyceae

Thalassiosira hendeyi

abundance: spring, autumn
life-form: single cells or in chains
diameter: 38-120 µm



LM (North Sea, NSGR2)



LM cleand material (North Sea, SYLT1)

phytoplankton - bacillariophyceae

Thalassiosira hyperborea

abundance: permanent abundant
life-form: solitary
diameter: 17 - 52µm

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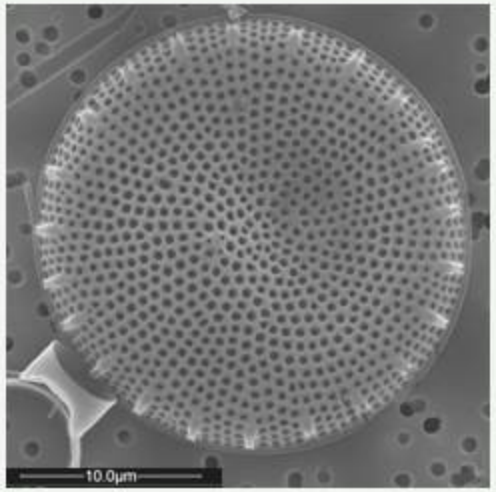
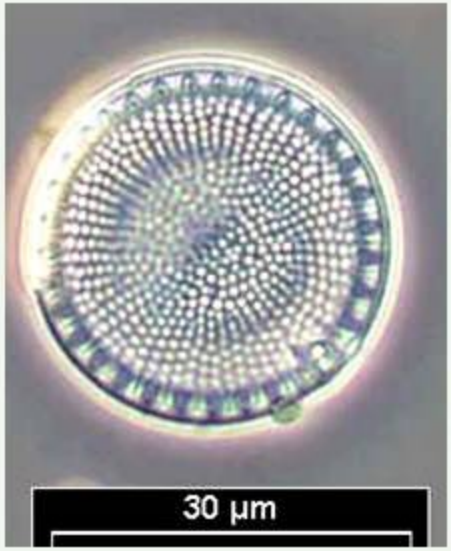
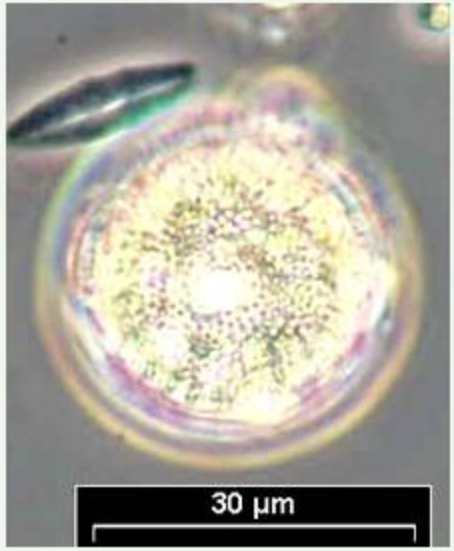
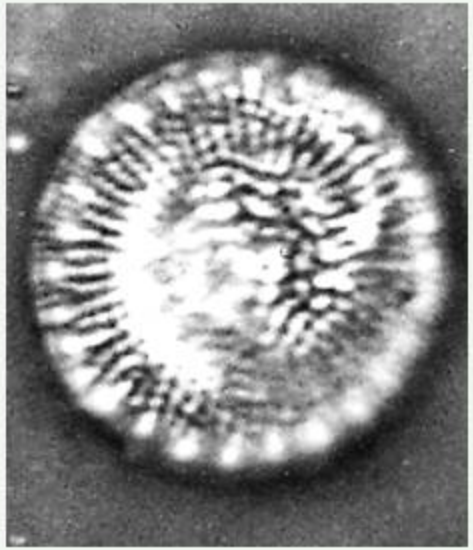


REM (Gotland Sea, sediment trap)





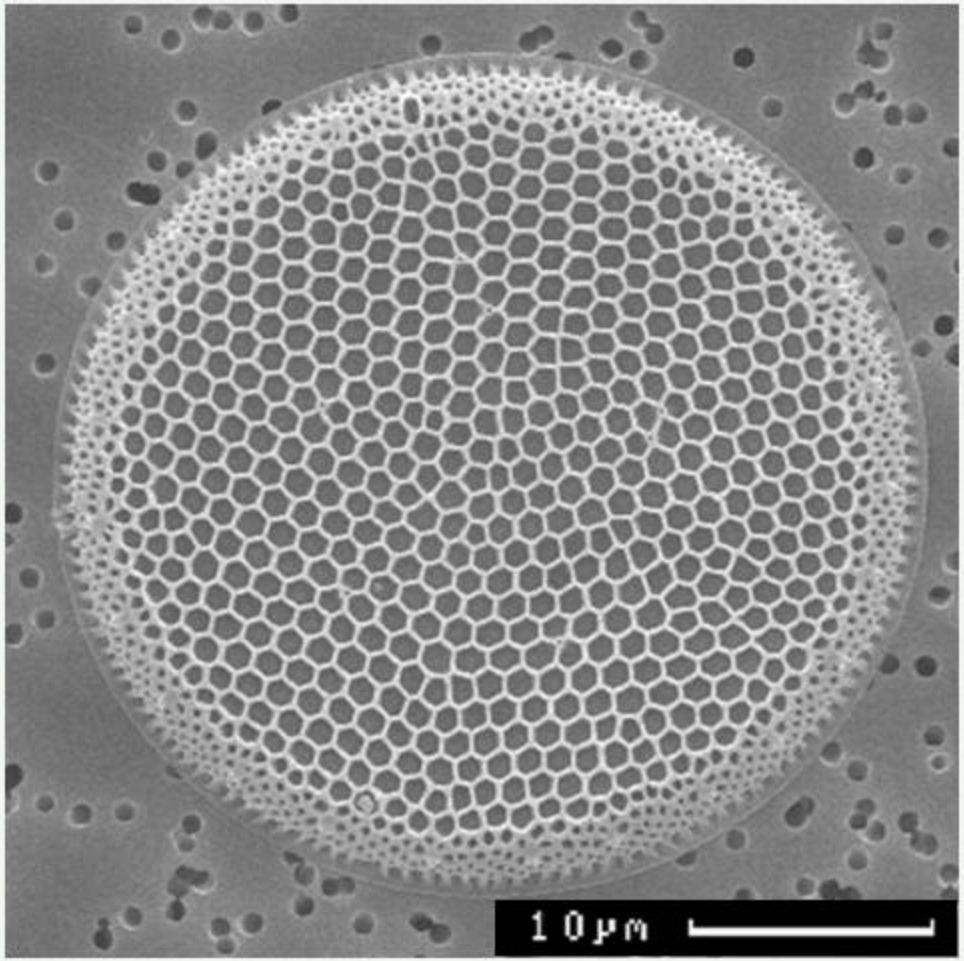


LM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Thalassiosira leptoporus

abundance: autumn, winter
life-form: solitary
diameter: 40 – 70µm

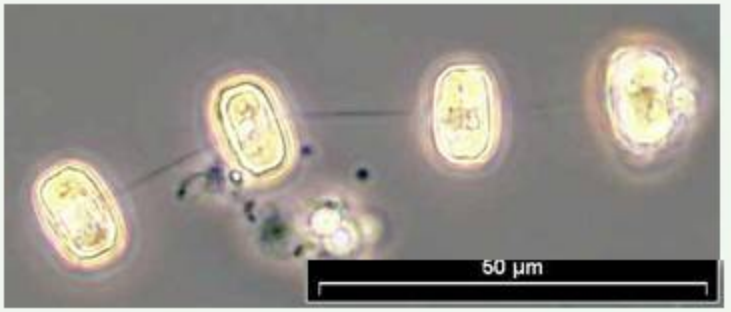


REM (Mecklenburg Bight)

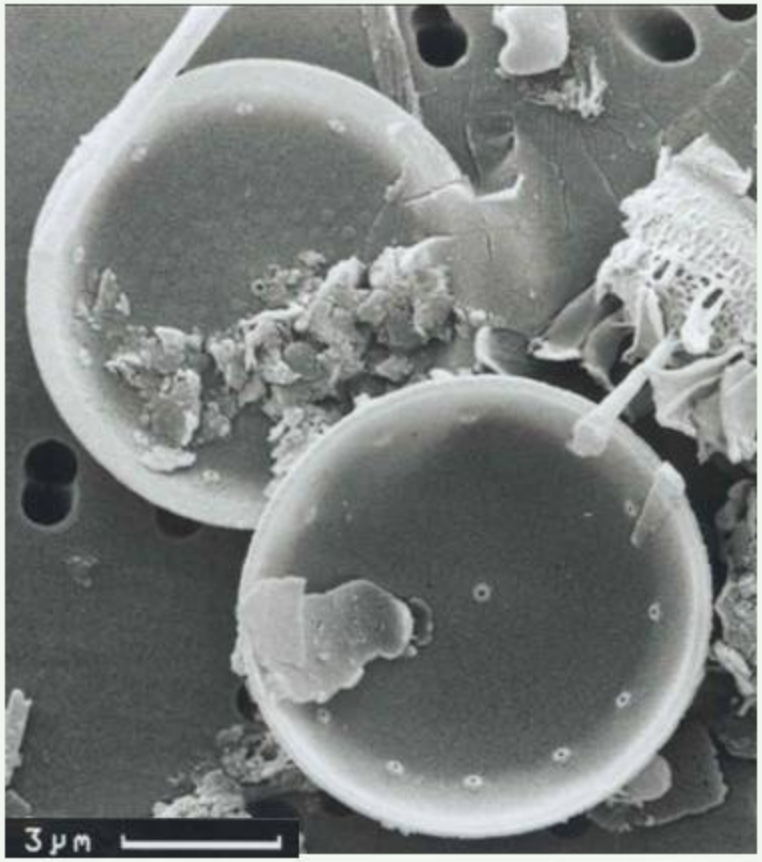
phytoplankton - bacillariophyceae

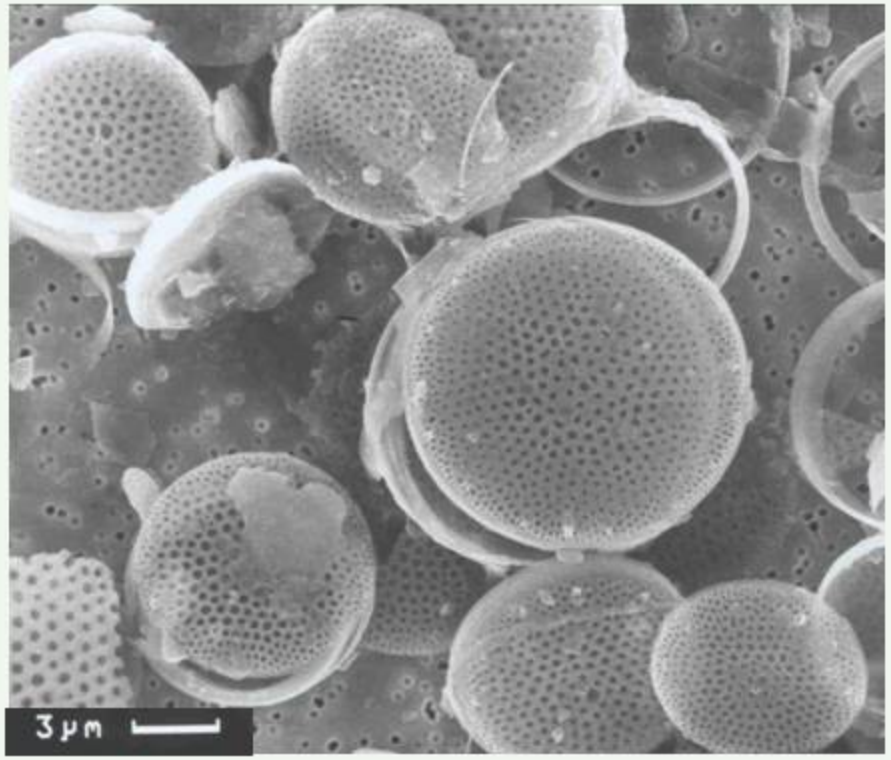
Thalassiosira levanderi

abundance: late spring, summer
life-form: in loose chains
diameter:: 7 - 12 µm



LM (Gotland Sea)





REM (Gotland Sea, sediment trap)

phytoplankton - bacillariophyceae

Thalassiosira nordenskiöldii

abundance: spring
life-form: in long chains
diameter: 12 – 43µm

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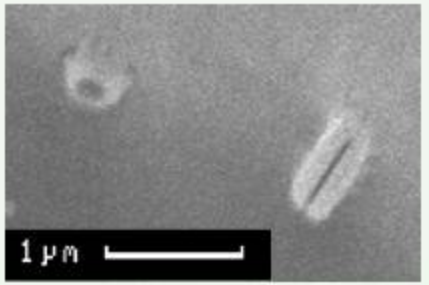
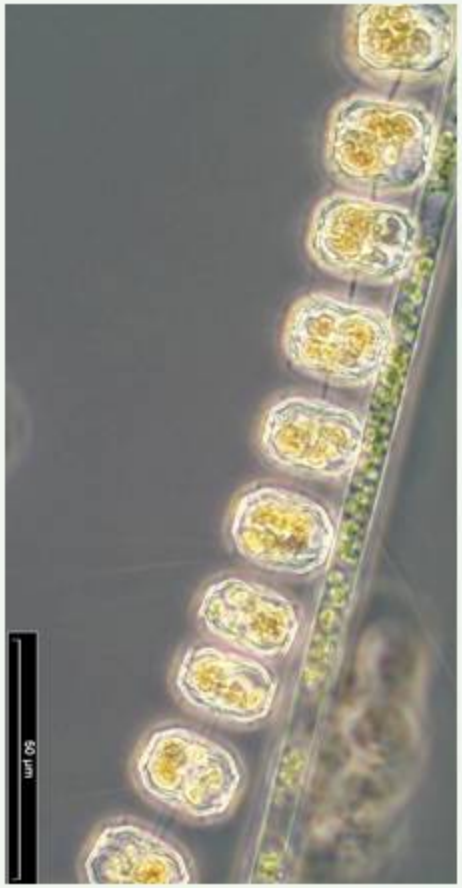
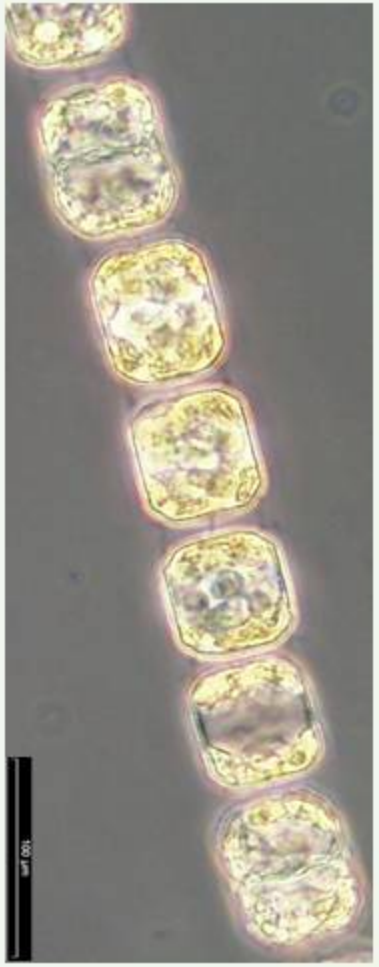
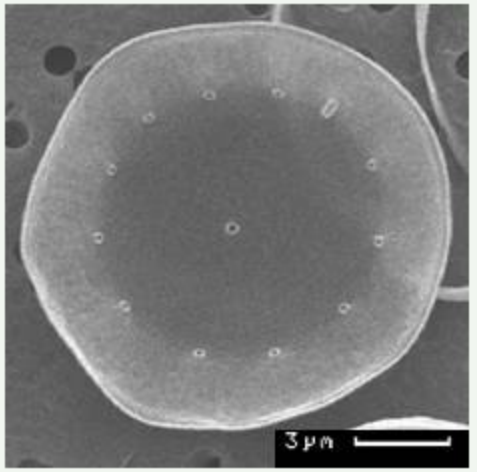
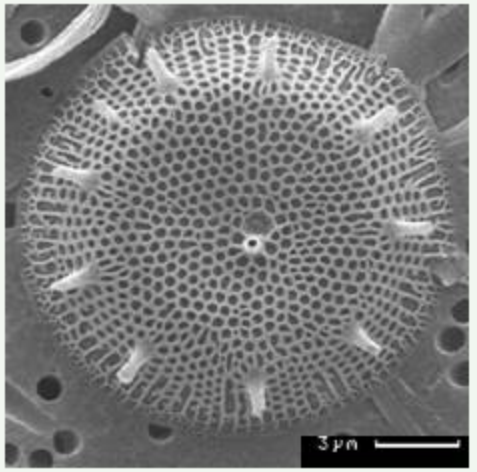






LM (coastal station Heiligendamm)





REM (culture)

phytoplankton - bacillariophyceae

Thalassiosira oceanica

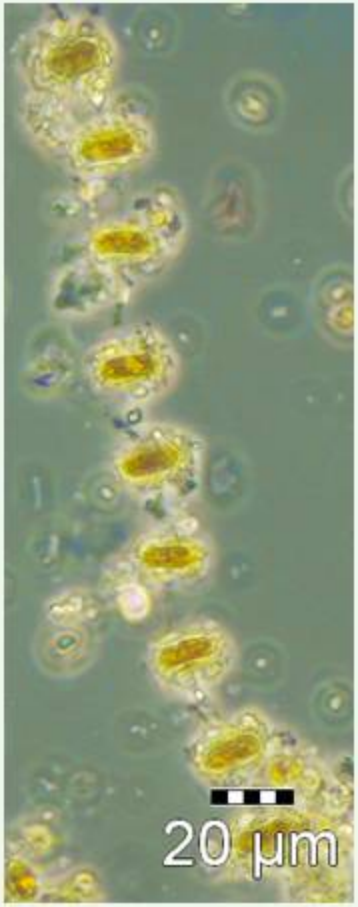
abundance: winter, spring
life-form: single cells
diameter: 3-12 µm

REM (Noth Sea, SYLT1)

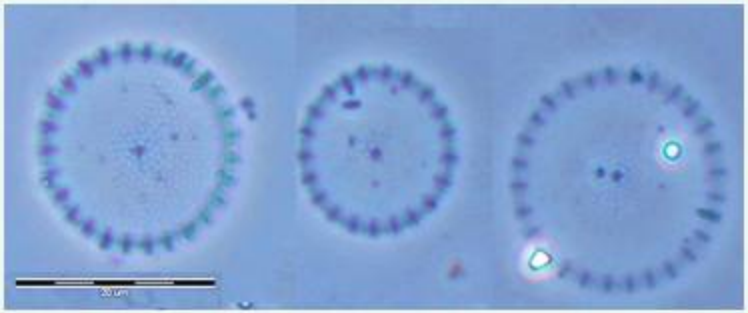
phytoplankton – bacillariophyceae

Thalassiosira pacifica

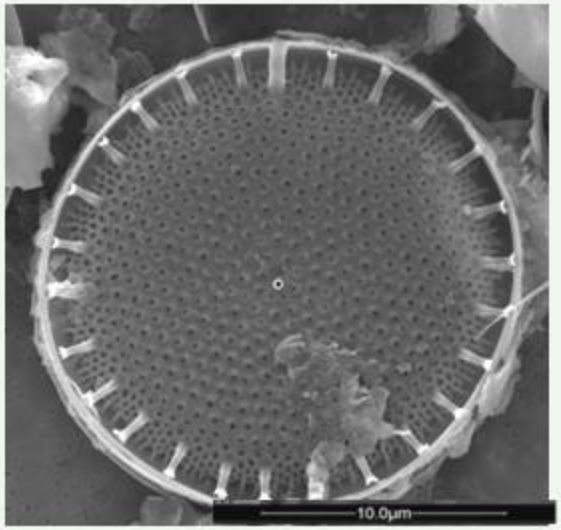
abundance: spring
life-form: single cells or in chains
diameter: 5-20 µm

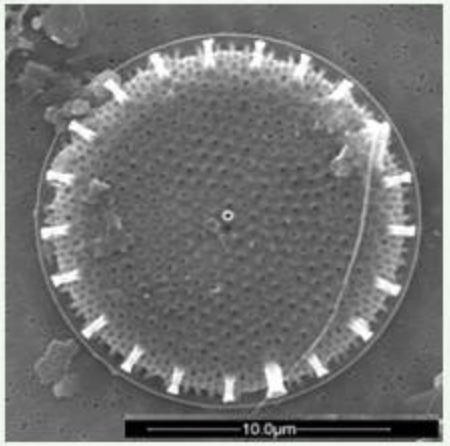


LM (North Sea, UFSDB)



LM cleaned material (North Sea, ES1)



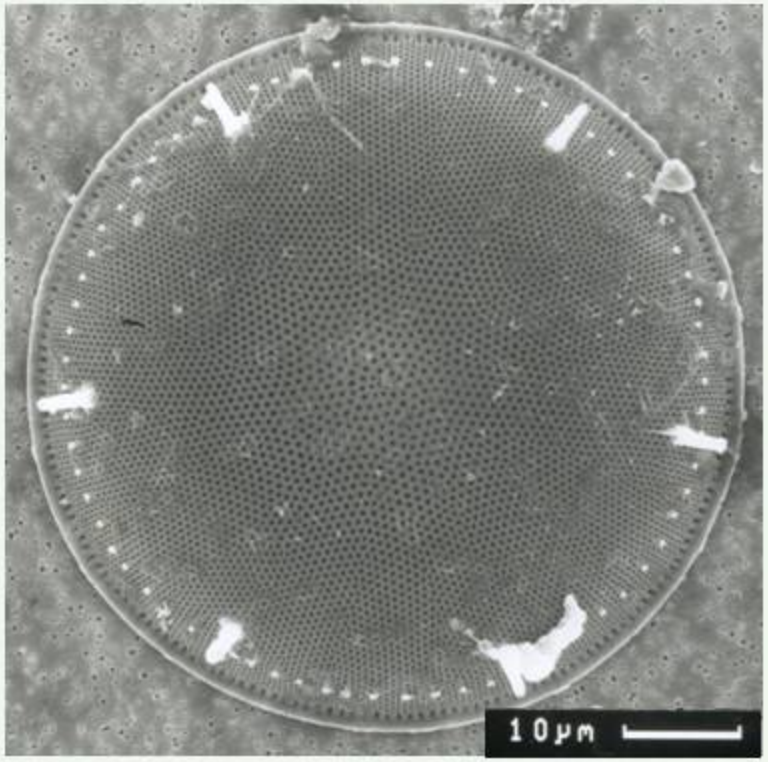


REM (North Sea, SYLT1)

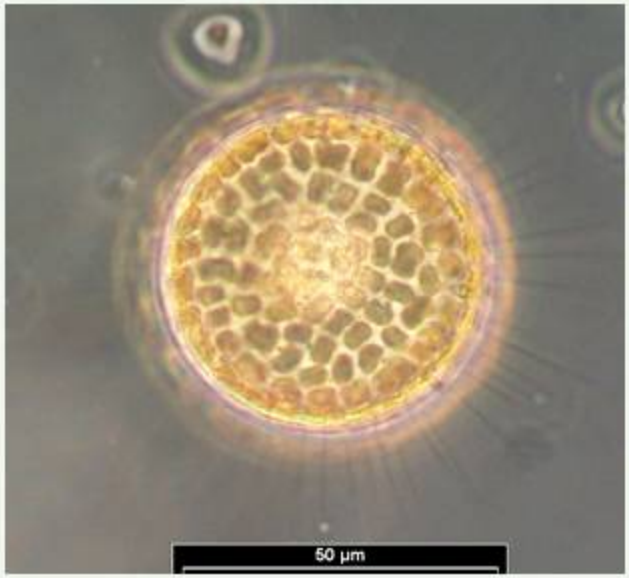
phytoplankton - bacillariophyceae

Thalassiosira punctigera

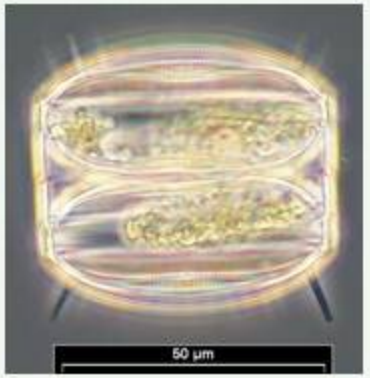
abundance: spring, summer, autumn
life-form: cells in loose chains
diameter: 25 - 75µm

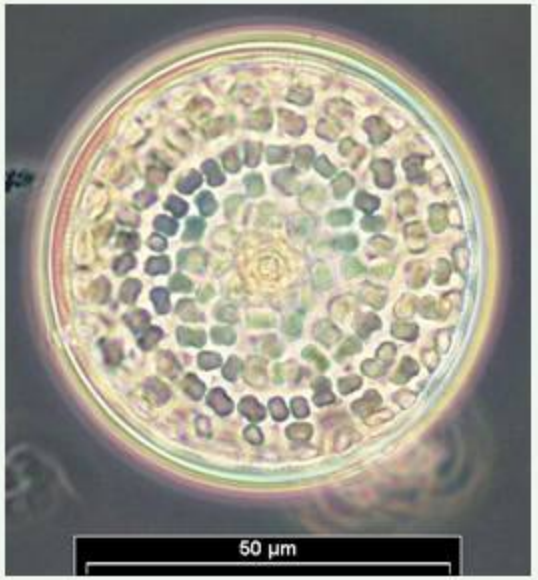


REM (Kattegat)



LM (coastal station Heiligendamm)



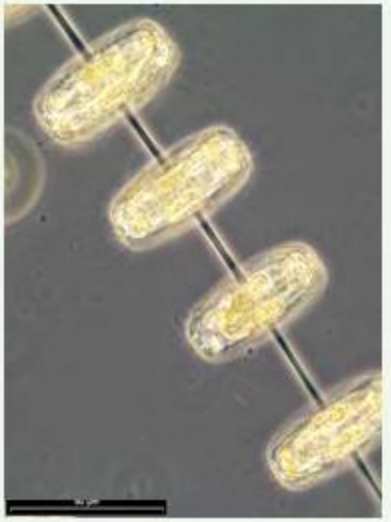


LM (Kattegat)

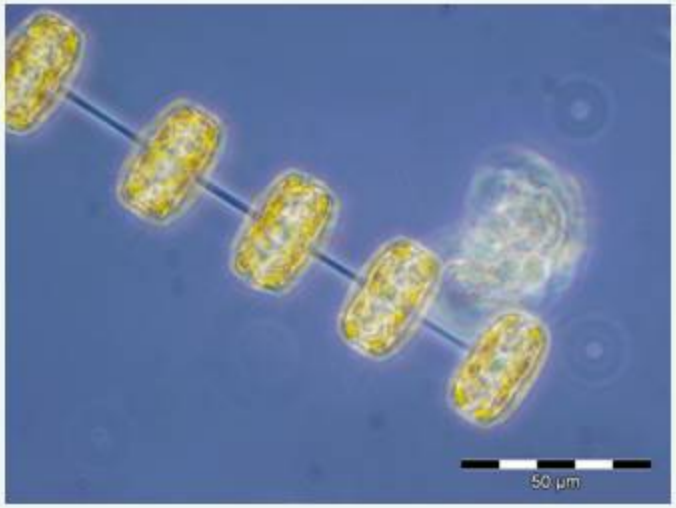
phytoplankton – bacillariophyceae

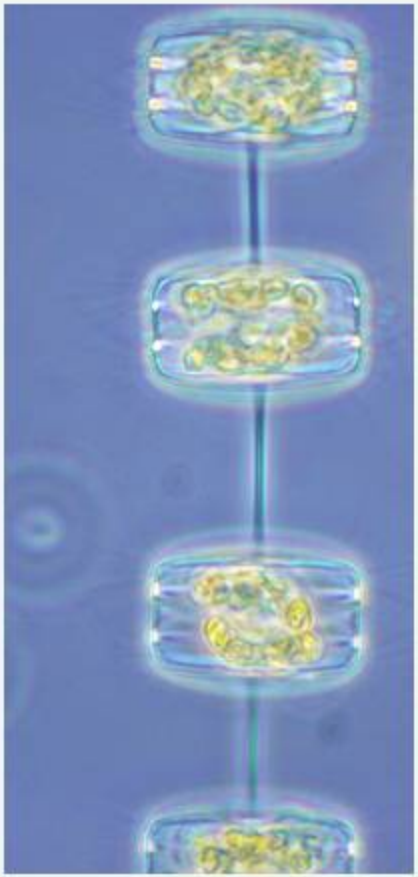
Thalassiosira rotula

abundance: permanent abundant
life-form: in chains
diameter: 30 - 60µm

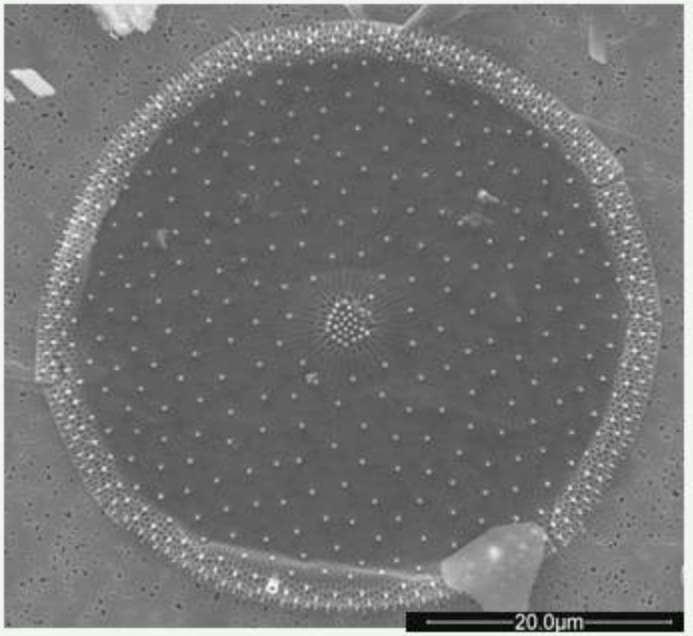


LM (North Sea, German Bight)





LM (coastal station Heiligendamm)

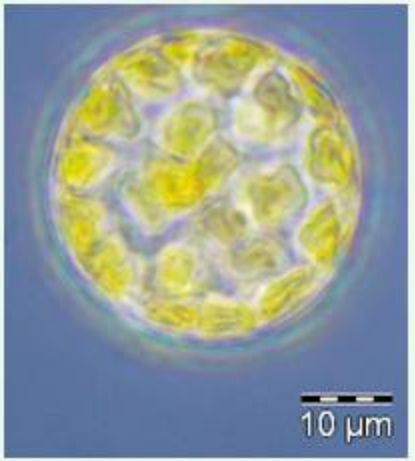


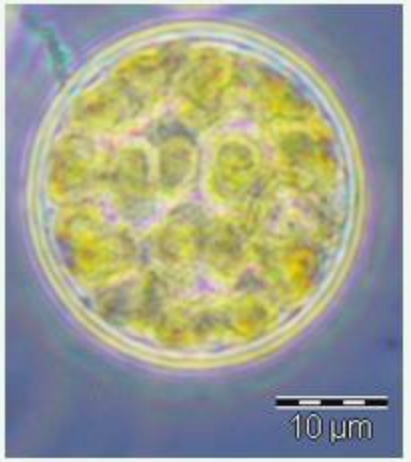
REM (North Sea, SWWBA)

phytoplankton - bacillariophyceae

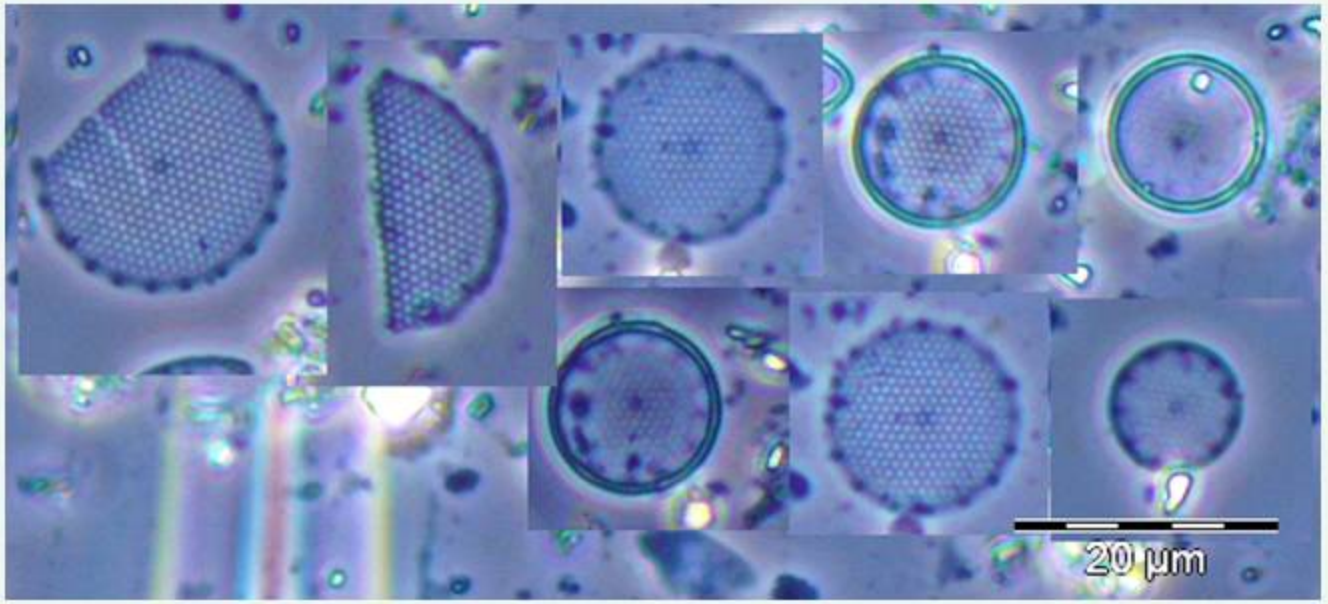
Thalassiosira tenera

abundance: autumn
life-form: solitary
diameter: 10-29mm

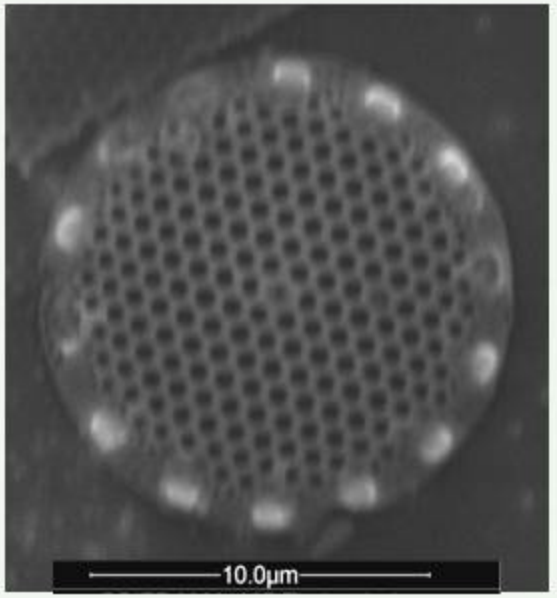




LM (North Sea, ES1)



LM (North Sea, ES1) cleaned material



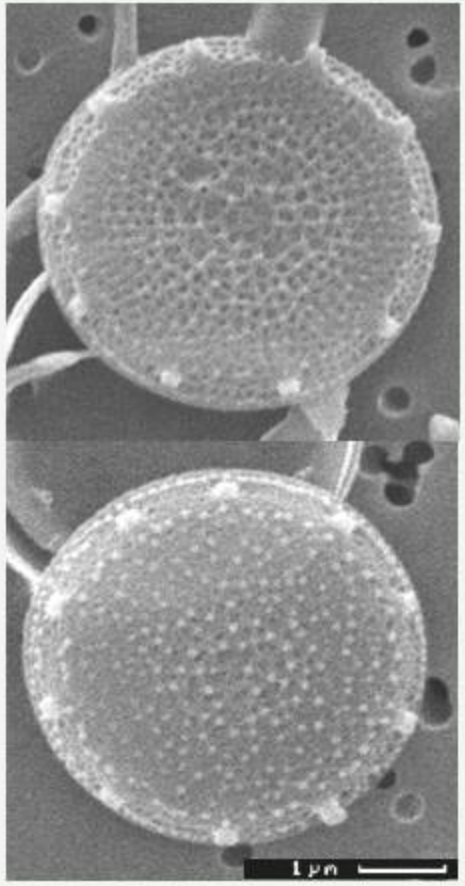
REM (North Sea, ES1)

phytoplankton - bacillariophyceae

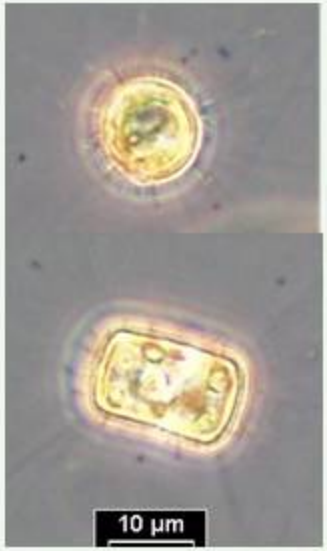
Thalassiosira weissflogii

abundance: spring

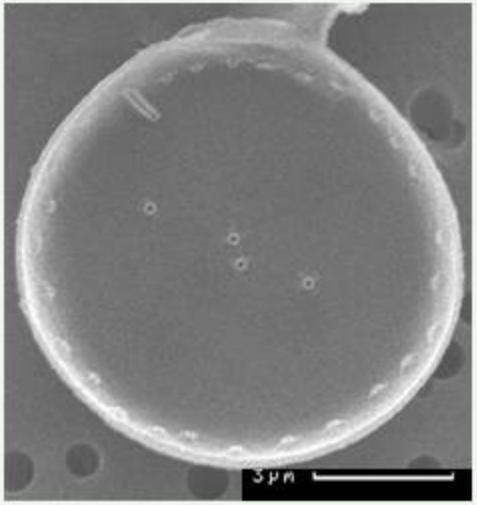
life-form: solitary or in loose chains
diameter: 5 - 32µm

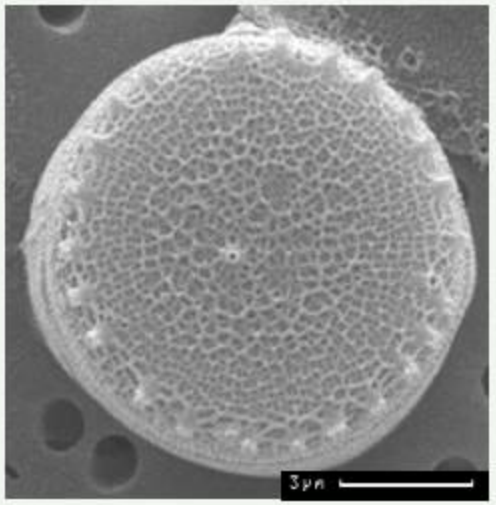


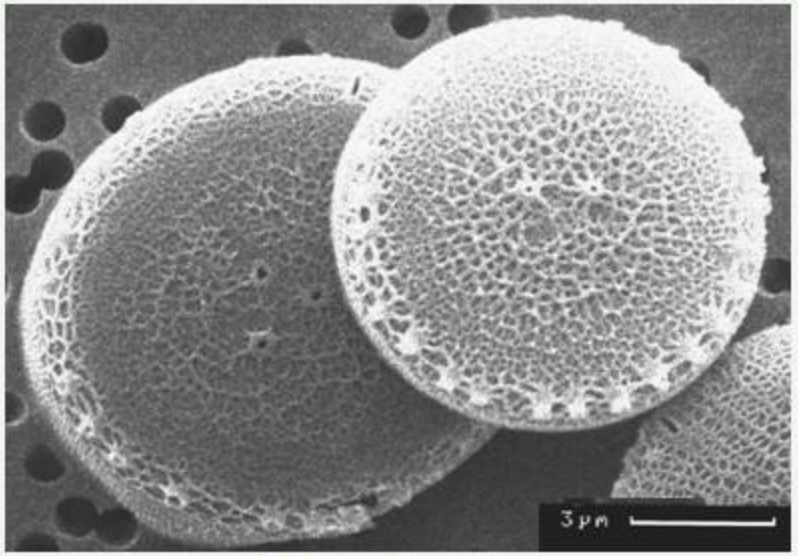
LM (coastal station Heiligendamm)



LM (culture)







REM (culture)