

# DIATOMS No.1

1 - 80

*Handwritten notes on the right edge of the page, including the number '1' and some illegible text.*

Rhocosphenia curvata var. elongata A. Cl.

R. curvata var. fracta (Schum.) Cl.

R. curvata var. genuina A. Cl.

Rhopalodia gibba (E.) O.M.

R. gibba var. genuina Grun.

R. gibba var. ventricosa (Kz.) Grun.

R. gibberula (E.) O.M.

R. gibberula var. mimans O.M.

R. gibberula var. producta (Grun.) A. Cl.

Scolopleura tumida Brch

Stauroneis E. spp

S. amphioxys Grreg. var. obtusata Hendey

X Surirella ovata Kz.

S. striatula Turpin

Synedra E. spp

S. parasitica (W.Sm.) Hust.

S. pulchella Kz.

S. tabulata (Ag) Kz.

X S. ulna (Nitz.) E. var. amphirynchus (E.) Grun.

X Tabellaria flocculosa (Roth.) Kz.

Thalassiosira eccentrica (E.) Cl.

Trachyneis aspera (E.) Cl.

A Synopsis of the British Diatomaceae

Vol 1

Rev. William Smith F.L.S

1853

p. 78

Gomphonema geminatum Ag

Pentland Hills (fresh water: subalpine hills) (Dr. Greville)

p. 80 Gomphonema olivaceum Ehrh

Duddingston Loch (Dr. Greville, Mar. 1826)

p. 84 Rhipidophora paradoxa Kütz

Firth of Forth (Dr. Greville)

p. 84 Rhipidophora elongata Kütz

Firth of Forth (Dr. Greville 1849)

Note by C.P.R. Dr. Greville of Edinburgh p. vi.

p. xiii " --- fossil or sub-fossil character, as the deposits of Dalgelly, Richmond, & Lough Inaerne ---"

Deposits (Recent; sub-fossil)

Peterhead

Premnay

Dalgelly

Inver, (Co. Down)

Lough Island-Reavey

Lough Inaerne

Cantyre Pear

Rassay Earth

A Synopsis of the British Diatomaceae Vol. II. 1856  
W<sup>m</sup>. Smith F.L.S

1  
2

- 15/  
p. 16 Odontidium hyemale Kütz.  
Pentland Hills, April 1821, Dr. Greville
- p. 19 Odontidium? parasiticum n. sp.  
Queen's Park, Edinburgh Dr. Greville  
fresh water; parasitic on Nitzschia sigmoidea, Apr. & June 1854  
(A minute form, which I place with doubt in the present genus --- may prove ---- early condition of some other species)
- p. 21 Denticula sinuata n. sp.  
Pentland Hills July 1854 Dr. Greville
- p. 29 Achnanthes exilis Kütz.  
Parasitic on the stipes of Gomphonema naviculoides in the tank of  
Victoria regia, Edinburgh Botanic Gardens, Sept. 1853  
Dr. Greville
- p. 31 Achnanthidium coarctatum Bréb.  
Graham, nr. Edinburgh Oct. 1855 Dr. Arnett
- p. 31/32 Achnanthidium lineare W. Sm.  
fresh water, Lasswade, nr. Edinburgh Dr. Greville
- p. 39 Diatoma vulgare Bory.  
Pentland Hills Apr. 1821 Dr. Greville
- p. 59 Orthosira arenaria  
Queen's Park, Edinburgh, Apr. 1854 Dr. Greville
- p. 65/6 Mastrogloia Grevellii n. sp.  
Pentland Hills. First collected by Dr. Greville
- p. 68/9 Encyonema caespitosum Kütz.  
Dunsapie Loch, Edinburgh Aug 1855, Dr. Greville
- p. 75/6 Schizonema Smithii  
Inverine, Joppa, Edinburgh Oct. 1853 Dr. Greville
- p. 76 Schizonema Torquatum  
Inverine, Joppa nr. Edinburgh Oct. 1853 Dr. Greville

- p 77 Schizonema Grevillii Ag. Marine Firth of Forth Dr. Greville
- p-79 Schizonema laciniatum, Harvey Toppa near Edinburgh Dr. Greville
- p. 79 Schizonema parasiticum Toppa nr. Edinburgh Dr. Greville

## APPENDIX

- p. 84 Cymbella ventricosa, Kürz. Queen's Park, Edinburgh Apr. 1854 Dr. Greville
- p. 88 Surirella erumena, Bréb. Fresh water, Nr. Tantallon Castle Aug 1854 Dr. Greville
- p. 91 Navicula laevissima, Kürz. Lough End (Chr? Lochend) nr. Edinburgh Mar. 1854 Dr. Gregory
- p 98 Gomphonema Naviculoides n. sp. Tank of Victoria Regia Bot. Gardens Edinburgh Aug. 1853 Dr. Greville
- p. 100 Gomphonema insigne, Græg. Duddingston Lough nr. Edinburgh Apr. 1854 Dr. Greville

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- p 39 (20 red) " I believe N(avicula) rhombica to be a marine form, having seen it, with other marine species, in a recent gathering from the coast near Tantallon, Haddingtonshire. There were also some fresh-water, or rather brackish-water forms, derived from the mouth of a small brook near the spot."  
(see p. 88 on previous page)
- p 3 (22 red) New Species Brit. Fresh-water Diatomaceae  
Pinnularia pygmaea Ehr. (Nana W.G.) near Edinburgh
- p 4 (22 red) Navicula rostrata near Haddington  
I give a figure of Mastogloia Grevillii, first observed on by Dr. Greville in a gathering from the Pentland Hills (see p. 2)
- p 5 (22 red) Cymbella obtusa, W.G. Dr. Greville finds it in one (gathering) from Braid Hills
- p 7 (22 red) Navicula bacillaris " ---- first observed in several gatherings from Duddingston Loch --- "  
Navicula lepidia d W.G. " from Hunter's Bog --- and in one of Dr. Balfour's from Borthwick Castle
- p 9 (22 red) Pinnularia digitato-radiata " -- occurs in several gatherings from Duddingston Loch --- "
- p 10 (22 red) Pinnularia globiceps B " --- gatherings from the neighbourhood of Duddingston Loch and Arthur's Seat -- by Dr. Greville, --- and in one from Borthwick made by Dr. Balfour -- "
- p 11 (22 red) Stauroneis dubia W.G. " It occurs in some gatherings from Duddingston Loch & in others from the Hunter's Bog
- p. 12 (22 red) Gomphonema insigne " -- first observed -- Duddingston Loch
- p 17 (4 red) Nitzschia dubia " I have it from the Queen's Park, Edinburgh  
G. A. Walker Annot LL.D

British Diatomaceae Collection British Museum  
 John E. Gray 1850

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- p. 10. Campylodiscus costatus Edinburgh Apr. 1854
- p. 12 Swirella Crumena Nr. Tantallon Castle (Dr. Greville) \*
- p. 16 Silzschia austria Queen's Park, Edinburgh Apr. 1854 \*
- p. 29 Pleurosigma angulatum  $\gamma$  gracile  
 Granton, near Edinburgh, June 1854
- p. 35 Gomphonema olivaceum \*
- Duddingston near Edinburgh March 1854
- p. 36 Gomphonema Naviculoides
- Botanic Garden Edinburgh Aug. 1853 \*
- p. 36 Gomphonema dichototum Duddingston Loch (spelt "Lough")
- p. 37 Rhipidophora elongata Firth of Forth Dr. Greville \*
- p. 39 Odontidium hyemale Pentland Hills Aug 1854 \*
- p. 40 Odontidium? parasiticum \*
- Queen's Park Edinburgh Apr. 1854
- p. 44 Diatoma vulgare  $\beta$  Pentland Hills, Dr. Greville Apr. 1821 \*
- p. 49 Mastogloia Grevillii Pentland Hills, July 1854 \*
- p. 50 Encyonema caespitosum Dunsapie Lough Dr. Greville Aug 1853 \*

The Diatom Genus Carpantogramma etc. R. Ross  
 Bull. of B. Mus. Vol 3 No 2 London 1963

- p. 69 Cocconeis disrupta Trans R. Soc. Edin (1857)
- p. 70 CORRIEGILLS, ISLE OF ARRAN on Corallina
- p. 87 Navicula pupula Lochend nr. Edinburgh 7 Mar 1854  
 (see p. 3 CP2) Gregory (B.M. 20507, 48023)

This species was independently described by Gregory in 1854 as Strauroneis rectangularis as a synonym and W. Smith in 1856 applied the name Navicula laevissima Kutzy Koit, citing S. rectangularis as a synonym.

Transactions of the Royal Society of Edinburgh Vol XXI 1857  
 Part IV (1856-7) XXXI

p. 473. On New Forms of Marine Diatomaceae, found in the Firth of Clyde & in Loch Fine R. K. Ereville LL.D. FRSE.

- 1. Navicula minor Loch Fine n. sp.
- 2. N. Cluthensis Lam. Bay n. sp.
- 3. N. (?) inconspicua Lam. Bay & Loch Fine n. sp.
- 4. N. brevis Lam. Bay n. sp.
- 5. N. clavicolus Loch Fine n. sp.
- 6. N. Musca Loch Fine n. sp.
- 7. N. reclangulata Lam. Bay n. sp.
- 8. N. nebulosa Lam. Bay n. sp.
- 9. N. Barclayana Loch Fine, Lam. Bay n. sp. (& L. Fine)
- 11. N. praeflexa = Pinnularia praeflexa Ehr. Lam. Bay
- 12. N. Bombus Ehr. Glenishira Sand + unnamed dredgings
- 13. N. Lyra Ehr. Glenishira Sand + unnamed dredgings
- 14. also N. Lyra Ehr. var  $\beta$  abrupta G. Sand & —||—
- 15. N. Smithii var  $\beta$  fusca Glen. Sand Lam. Bay & L. Fine  
 (olim N. elliptica Sm.)
- 10. N. spectabilis Lam. Bay n. sp.
- 16. N. Smithii var  $\gamma$  nirescens Lam. Bay: Loch Fine
- 17. N. Smithii var  $\delta$  suborbicularis Lam. Bay: Loch Fine
- 18. N. maxima Glenishira sands: Loch Fine
- 19. Pinnularia (?) subtilis Lam. Bay n. sp.
- 20. P. rostellata Lam. Bay: Loch Fine n. sp.
- 21. P. Allmantana Lam. Bay: Loch Fine (? n. sp.)
- 22. P. Pandura = Navicula Pandura Breb var  $\beta$  elongata  
 "several of the dredgings"

Note:- p 509 "---- upper part of Loch Fine, just below Inveraray." Cont.



GROUP II

Cocconeides

p. 490

23	<u>Cocconeis</u>	<u>distans</u>	Lam Bay (Glenkiera Sand)	
24	<u>C.</u>	<u>ornata</u>	Lam. Bay: L. Fine	n-sp
25	<u>C.</u>	<u>dirupta</u>	Corregills, Arran	n-sp.
26	<u>C.</u>	<u>nitida</u>	Lam Bay: L. Fine	n-sp
27	<u>C.</u>	<u>pseudomarginal</u>	Lam. Bay	
		<u>marginata</u>		nsp.
18	<u>C.</u>	<u>major</u>	Lam. Bay	n-sp.
29	<u>C.</u>	<u>splendida</u>	Lam. Bay	n-sp

GROUP III Filamentous

30	<u>Denticula</u>	(?) <u>interrupta</u>	Lam. Bay	
31	<u>D.</u>	(?) <u>capitata</u>	Loch Fine	n-sp
32	<u>D.</u>	(?) <u>ornata</u>	Lam Bay: L. Fine	n-sp
33	<u>D.</u>	(?) <u>laevis</u>	Lam Bay: L. Fine	n-sp.
34	<u>D.</u>	<u>nana</u>	Lam Bay: L. Fine	n-sp
35	<u>D.</u>	<u>minor</u>	Lam Bay: L. Fine	n-sp
36	<u>D.</u>	<u>distans</u>	Lam. Bay: L. Fine	n-sp
37	<u>D.</u>	<u>staurophora</u>	Lam. Bay: L. Fine	n-sp
38	<u>D.</u>	<u>fulca</u>	Lam Bay: L. Fine	n-sp
39	<u>D.</u>	<u>marina</u>	Lam Bay: L. Fine	n-sp
40	<u>Diadesmis</u>	(?) <u>Williamsoni</u>	Lam Bay: L. Fine	n-sp
41	<u>Meridion</u>	(?) <u>marinum</u>	Lam. Bay: L. Fine	
		(or <u>Gomphonema lineare</u> )		n-sp
42	<u>Pycnidiaula</u>	<u>cruciata</u> Ehr.	Lam. Bay	
43	<u>Orthosira</u>	<u>angulata</u>	Lam Bay: L. Fine	n-sp

Cont.

GROUP IV Discs (Campylo-disci)

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44	<u>Melosira</u> or <u>Coscinodiscus</u> (?)	(?) n.sp.	
	Loch Fine & Lam. Bay		
45	<u>Coscinodiscus nitidus</u>	Lam. Bay	n.sp.
46	<u>C. punctulatus</u>	Lam. Bay: L. Fine	n.sp.
47	<u>C. concavus</u> Ehr.	Lam. Bay: L. Fine	
48	<u>C. umbonatus</u>	Lam. Bay	n.sp.
49	<u>C. centralis</u> Ehr.	Lam. Bay: L. Fine	
50	<u>Eupodiscus subtilis</u>	?	n.sp. (Ralfs)
51	<u>Campylo-discus centralis</u>	Loch Fine	n.sp.
52	<u>C. Ralfsii</u>	Lam. Bay: L. Fine	
53	<u>C. angularis</u>	Loch Fine	n.sp.
54	<u>C. eximius</u>	L. Fine	n.sp.
55	<u>C. limbatus</u> (Bréb)	L. Fine	

GROUP V Amphiproæ

56	<u>Amphiproæa pusilla</u>	Loch Fine	n.sp.
57	<u>A. plicata</u>	Loch Fine	n.sp.
58	<u>A. elegans</u>	Loch Fine, Glenishira	
		" and in more than one -- dredgings "	
59	<u>A. lepidoptera</u>	Glenishira Sand:	n.sp.
60	<del><u>A. obrusa</u></del>	Corriegills nr. Lam. Bay	n.sp.
60	<u>A. obrusa</u>	Loch Fine	n.sp.
61	<u>A. maxima</u>	Glen. Sand: Lam. Bay: L. Fine	n.sp.
62	<u>A. (?) complexa</u>	Glen. Sand: Corallina	n.sp.

GROUP VI Amphoræ

63	<u>Amphora furgida</u>	Lam. Bay: L. Fine	n.sp.
64	<u>A. nana</u>	Lam. Bay: L. Fine	n.sp.
65	<u>A. macilenta</u>	Lam. Bay: L. Fine	n.sp.
66	<u>A. angusta</u>	Lam. Bay: L. Fine	n.sp.
67	<u>A. binodis</u>	Lam. Bay: L. Fine	n.sp.
68	<u>A. ventricosa</u>	Lam. Bay: L. Fine	n.sp.

CONT.

## Amphorae (cont.)

69	<u>Amphora monilifera</u>	Lam Bay: Glenshira Sand	n.sp.
70	<u>A. lineata</u>	"dredgings so often mentioned & Glenshira Sands"	n.sp.
71	<u>A. Ergadensis</u>	Lam Bay: Loch Fine	n.sp.
72	<u>A. laevissima</u>	Loch Fine	n.sp.
73	<u>A. pellucida</u>	Loch Fine	n.sp.
74	<u>A. laevis</u>	Loch Fine	n.sp.
75	<u>A. exigua</u>	Lam. Bay: Loch Fine	n.sp.
76	<u>A. dubia</u>	Lam Bay	n.sp.
77	<u>A. truncata</u>	Lam Bay: L. Fine	n.sp.
78	<u>A. oblonga</u>	Loch Fine (& some other dredgings)	n.sp.
79	<u>A. robusta</u>	Lam. Bay: Loch Fine	n.sp.
80	<u>A. spectabilis</u>	Lam. Bay: Loch Fine	n.sp.
81	<u>A. proteus</u>	Lam. Bay: Loch Fine	n.sp.
82	<u>A. lyrata</u>	Lam Bay: Loch Fine	n.sp.
83	<u>A. milesiana</u>	Lam Bay: Loch Fine	n.sp.
84	<u>A. elongata</u>	Lam Bay: Loch Fine	n.sp.
85	<u>A. quadrata</u>	Lam Bay: Loch Fine	n.sp.
86	<u>A. excisa</u>	Lam Bay: Loch Fine	n.sp.
87	<u>A. nobilis</u>	Lam Bay: Loch Fine	n.sp.
88	<u>A. Arcus Greg.</u>	Lam. Bay: Glenshira Sand	-
89	<u>A. Brevilliana Greg</u>	Lam. Bay: Glenshira Sd	-
90	<u>A. fasciata</u>	Lam. Bay: L. Fine: Glenshira Sd	n.sp.
91	<u>A. complexa</u>	Lam Bay: Glen. Sand	n.sp.
92	<u>A. sulcata Bréb.</u>	Lam Bay: Loch Fine	-
93	<u>A. acuta</u>	Lam Bay: Loch Fine	n.sp.
94	<u>A. crassa, Greg</u>	Lam Bay: L. Fine: Glen. Sand	-
95	<u>A. pusilla</u>	Lam Bay: L. Fine	n.sp.
96	<u>A. granulata</u>	L. Fine	n.sp.
97	<u>A. cymbifera</u>	L. Fine	n.sp.
98	<u>A. proboscidea</u>	L. Fine	n.sp.
99	<u>A. costata, Smith</u>	L. Fine (see N° 100 p 528)	-
100	<u>A. bacillaris</u>	L. Fine	n.sp.

cont.

p. 528 er seq.

- MISCELLANEOUS -

- 101 Navicula (?) Libellus Lam. Bay n.sp
- 102 Nitzschia (?) panduriformis L. Fine n.sp
- 103 Nitzschia distans Lam Bay: L. Fine: Glen. Sand n.sp
- 104 N. hyalina L. Fine n.sp
- 105 Pleurosigma (?) reversum L. Fine n.sp
- 106 Sceptroneis Caduceus Ehrh. Loch Fine -
- 107 Synedra undulata (Eveg.) Toxarium undulatum Bail. Glen. Sand Lam. Bay
- 108 Synedra Henneayana Lam Bay: L. Fine n.sp(?)  
pp 532 er seq. lengthy discussion & in Appendix 536-8

Corrigenda p 541-2

52 Campylodiscus Ralfsii, in addition "C. decorus" which must therefore be added to the list of British Diatoms

Discussion following is too abstruse for me to understand

Note confusion between 95 & 96

- 6 Cookburn Park 1854 Ormosira arenaria
- 6 Hunters Bog Edinburgh E3 Ormosira arenaria

- 7 Arceuthoeca (sic) 5191 Annularia fenella
- 7 Arceuthoeca (sic) 2573 Nitzschia linearis
- 7 Arceuthoeca (sic) 2425 Navicula tenuis  
Stauroneis linearis  
S. gracilis
- 7 Arceuthoeca (sic) 3938 Stauroneis Henneayana

## WALKER ARNOTT SLIDE COLLECTION

TRAY 1 Top

NOTE: W-A. m/s ident. "LARGER TUBES OF DIATOMS"

Transcribed by B.P. Rawcliffe 1994

P 2	Ardeer Quarry. Saltcoats	556	Cocconema parvum
3	Glenarm, N. Ireland	1728	Isthmia nervosa
3	-	1730	I. nervosa
4	-	<u>E1</u>	I. nervosa
4	+	1729	I. nervosa
5	Saltcoats	1623	Himantidium gracile
5	Saltcoats	1862	Inelosira varians
5	Saltcoats	4141	Synedra radians
-			Himant(idium) majus
-			Inelos(ira) varians
-			Orthos(ira) orich(alcea)
5	Saltcoats	1863	Inelosira varians
			Orthos(ira) orichalcea
			Himantidium gracile
			Synedra radians
5	Saltcoats	<u>E2</u>	Orthosira orichalcea
			Inelo(sira) varians
			Himant(idium) gracile
			H. majus
			Syned(ra) radians var var. angust
6	Cockburnspath	2834	Orthosira arenaria
6	Hunters Bog Edinburgh	<u>E3</u>	Orthosira arenaria

TRAY 1 Middle

7	Dorsetsh(ire)	3191	Pinnularia fenelle
7	Dorsetsh(ire)	2573	Nitzschia linearis
7	Dorsetsh(ire)	2425	Navicula tumida <small>(per m/s papers slide, indecipherable)</small>
			Staur(oneis) linearis
			S. gracilis
7	Dorsetsh(ire)	3936	Stauroneis rhoenicentris

Cont(12)

TRAY 1 Middle

7 (cont.)	<del>Sta</del> Dorsetsh.	3936	Stauroneis gracilis S. anceps S. linearis
7	Dorsetsh	1984	Navicula bacillaris W.G. (? Greg) N. tumida N. pusilla Stauroneis phoenic( S. gracilis S. linearis
7	Dorsetsh.	1993	Navicula binodes N. inflata N. producta
7	Dorsetshire	3779	Surirella elegans Nav(icula) affinis N. rhynchoceph(ala) N. firma
7	Dorsetshire	2418	Navicula tumida N. inflata N. di-cephala N. producta
7	Dorsetshire	1919	N. affinis N. amphirhyn. N. producta N. firma (check: %s poor)
12	Cumbrac	E 6	N. tumida N. inflata N. amphirhyncha
7	Dorsetshire see Reverse of P11	<u>E 4</u>	Navicula inflata N. affinis N. amphirhynchus
		1674	FRANCE
		1670	FRANCE

## TRAY 1 Bottom (2 slides missing)

9	Arran (20.7.53)	2027	Navicula crassinervia N. rhomboides
			Himantidium pectinale
			Tabellaria flocculosa
9	Arran	4256	Tabellaria flocculosa Himantidium pectinale Navicula rhomboides N. crassinervia
9	Arran (30.7.53)	2341	Navicula rhomboides N. crassinervia Himantidium pectinale
10	Wanstead, Essex	1659	Himantidium pectinale
11	Paucend Quarry; Saltcoats	3325	Pleurosigma lacustre Nitzschia sigmoidea
11	—	3323	Pleurosigma lacustre Nitzschia sigmoidea var. (sigma Brebisson ?)
11	—	<u>E 5</u>	Nitzschia sigmoidea var. linearis $\beta$ Sm./Pleur. lacustre
11	—	2576	Nitzschia linearis $\beta$ Sm. sigmoidea var. Pleur. lacustre
11	—	2660	Nitzschia sigmoidea var. linearis $\beta$ Sm.
12	Cumbræ	<u>E 6</u>	Cocconeis scutellum Rhipidophora elongata

Cont. on 14

TRAY 2 (Top)

12	Cumbræ	3471	Rhipidophora elongata Coeconeis scutellum
12	Cumbræ	3477	Rhipidophora elongata
12	Cumbræ	3487	Rhipidophora elongata
13	Cumbræ	E7	Diatoma vulgare
13	Cumbræ	1013	Diatoma vulgare
14	Cockburnspath	E8	Synedra ulna
			Odontidium hyemale
14	Cockburnspath	2767	Odontidium hyemale Synedra hyemale
15	Plymouth	4055	Synedra fulgens Rhabdonema arcuatum
16	-	E9	Synedra Gallionii S. fulgens
16	-	4061	Synedra Gallionii S. fulgens
			Coec(oneis) diaphian (sic)
			Rhabdonema arcuatum
17	Stream in Brodick Bay	1052	Doryphora Boeckii Synedra pulchella
17	Brodict Burn Arran	4128	Synedra pulchella
<u>TRAY 2 middle</u>			
17	Brodict, Arran	4127	Synedra pulchella
17	Stream, Brodict Bay	1055	Doryphora Boeckii Synedra pulchella
17	Brodict, Arran	1056	Doryphora Boeckii Synedra pulchella
17	Stream, Brodict Bay	1057	Doryphora Boeckii Synedra pulchella
17	- - -	1053	Doryphora Boeckii Synedra pulchella



TRAY 2 Cont. *middle*

17	Stream, Brodick Bay	1187	Eunotia Arcus Syned(ra) pulchella
17	-- --	1183	Eunotia Arcus Syned(ra) pulch(ella)
17	Brodick	E10	Synedra pulchella Eunot(ia) Arcus Doryphora Boeck(ii)
18	Hunterston	3827	Surirella ovata
18	Hunterston Point	2055	Navicula cryptocephala Nitz(schia) <i>spec. in pencil</i> Surr(irella) ovata Syned(ra) ?
18	Hunterston	E11	Surr(irella) ovata Amphiptora duplex. Navicula cryptoceph(ala)
18	Hunterston Point	2731	Nitzschia blank N. blank n.sp. Surr(irella) ovata Syned(ra) minutiss(ima)
<hr/>			
<u>Tray 2 Bottom</u>			
18	Hunterston Pt. (black mud)	4509	-NIL-
19	-- --	3828	Surirella ovata Navic(ula) -NIL-
20	Hull	E14	Rhab(donema) minut(um) Staur(oneis) -NIL-
20	HULL, Spring ditch	4490	-NIL-
20	Hull	1600	[Himantidium Arcus]
20	Hull -- --	1594	Himantidium Arcus (overwritten "Not the true one") Cyclotella operculata
20	Hull Spring Ditch	698	Cyclotella operculata
20	-- --	4033	Synedra delicatissen S. tenera

TRAY 2 Cont. Bottom

20	HULL, Spring Ditch (cont)	4033	Synedra capitata S. radians Cyclotella operculata
20	" "	4023	Synedra capitata S. delicatessen S. tenera S. radians
20	<del>-----</del>		Cyclor(ella) operculata
20	Hull Spring ditch	4165	Synedra tenera S. delicatessen S. capitata Cyclor(ella) operculata
20	" "	E12	Synedra delicatessen S. tenera S. capitata Cyclor(ella) operculata
21	Ardeer Quarry, Salcoats	1146	Epithemia Sorex E. alpestris (over-written)
	MAURITIUS	4294	
<hr/>			
TRAY 3 Top			
22	Mauritius	3467 E13	
24	Woolwich	E14	Synedra affinis S. gracilis Nitzschia acicularis
24	Woolwich	3994	Synedra affinis S. gracilis
24	Woolwich	3999	Synedra affinis S. gracilis Nitzschia acicularis
25	HULL	3258	Pleurosigma angularum

Cont on 17

TRAY 3 *tridolke*

26	HULL	2530	Nitzschia closterium
26	HULL	E15	Nitzschia closterium
27	Duddingston Loch	E16	Cocconeis pediculus C. placentula Gomphonema capitatum G. constrictum Nitzschia minutissima
27	Duddingston Loch	2587	Nitzschia minutissima
27	+ -	2590	N. minutissima Cocconeis placentula
Footnote Some marine species mixed, <i>Arachnoidiscus ehrenbergii</i> : <i>Pleuro (sigma) quadratum</i> : <i>Phodops (ira) montagnei</i>			
27	Duddingston Loch Footnote <i>Pleuro. quadratum</i>	2488	Nitzschia acicularis N. minima (sic)
27	Duddingston Loch	2588	N. minutissima
27	Duddingston Loch	2495	N. acicularis
27	+ -	<del>2584</del>	N. minutissima
27	+ -	2584	N. minutissima
27	Duddingston Loch	1433	Gomphonema capitatum G. constrictum G. olivaceum Nitzschia minutissima Cocconeis pediculus C. placentula
28	Mull Dep.	1631	Himantidium majus var H. bidens
28	Mull Dep.	1822	Eunotia <u>tetradon</u> ( <u>tetradon</u> ) E. diodon
28	Mull Dep.	1822	Melosira rivatis
28	Mull Dep.	1725	Eunotia tetradon
28	Mull Dep.	1725	Himantidium majus H. bidens

TRAY 3 Bottom

28	Null Dep	1826	Melosira rivalis Himantidium bidens Eunotia tetraodon E. incisa V 1532
28	-	1603	Himantidium bidens H. majus Melosira rivalis
28	-	1242	Eunotia tetraodon E. diadema Himantidium majus H. bigibba Eunotia Jan 1496 H. gracile
28	-	E17	Gomphonema elongatum G. acuminatum Himantidium bidens
28	Deposit from Null	4505	- NIL -
29	Null dep.	E18	Himantidium majus H. bidens
29	Null dep.	1817	Melosira rivalis Himantidium majus Gomphonema acuminatum V1874 Eunotia incisa
29	Null dep.	1422	Gomphonema acuminatum Himantidium majus var Eunotia incisa
29	Deposit from Null	4502	- NIL -
30	Jersey	1725	Isthmia enervis
31	FRANCE (ORLEANS)	2841	

Cont. on 19

## TRAY 4 Top

32	Hessle nr Hull	562	Colletotema eximium Pleurosigma balticum
32	—	E19	Pleurosigma balticum
33	Arran	E20	Epithemia longicornis E. argus
33	—	1088	Epithemia argus E. longicornis
33	Corrieqhills	1117	Epithemia longicornis E. ocellata E. argus
34	off ? C.B.S	D	Arachnoidiscus ornatus
34	—	E21	Arachnoidiscus ornatus
35	Rocks near Loch Ranza	E22	Navicula angustata Denticula tenuis Gomphonema vibrio
35	entrance Loch Ranza	900	Denticula tenuis Denticula inflata (?)
35	Rocks, Loch Ranza	1547	Gomphonema vibrio Navicula angustata Denticula tenuis
36	Fell-end Lancs	E23	Fragilaria virescens Himantidium pectinale <sup>from papers</sup>
36	Fell End, Lancs	1683	Himantidium ? (pencil) Pinnularia lata
<u>TRAY 4 Middle</u>			
36	Fell end, Lancs	1589	Himantidium arcus Eunotia ? not listed on papers Fragilaria virescens
37	Cove, Ab'shire	2854	Ormosira deckieii Fragilaria virescens Achnantheridium lanceolatum Tryblionella minor

Cont P20

3032 } Synedra ?  
 } Himantidium ?

TRAY 4 middle, cont.

37	Cove, Aberdeenshire	2853	Orthosira dickieii Tryblionella minor Achnanthydium lanceolata Fragilaria virescens
37	-  -	3032	<del>Blank</del> Pinnularia ? See above Achnanthydium microcephalum
37	-  -	1682	Himantidium ----- ? Achnanthydium microcephalum Fragilaria virescens Tryblionella minor
37	-  -	1401	Fragilaria virescens Orthosira dickieii
37	-  -	1982	Achnanthydium microcephalum
37	-  -	91	Achnanthydium microcephalum Orthosira dickieii Fragilaria virescens Himantidium ?
37	-  -	90	Achnanthydium microcephalum
37	-  -	4514	Synedra + drawing Achnanthydium microcephalum Pleur (sigma) ? plus ???
37	-  -	87	Achnanthydium microcephalum Navicula bacillum
37	-  -	4513	Pinnularia gracillima
38	-  -	523	Orthosira dickieii Fragilaria virescens
37	-  -	86	Achnanthydium microcephalum Navicula bacillum Pinnularia gracillima Himant (idium) ? blank Fragilaria ? blank Orthosira dickieii
38	-  -		One Slide missing

Cont. on 21

## TRAY 4 Bottom

37	Cove, Aberdeenshire	1969	Pinnularia (Nav) appendicul <sup>not in index</sup> Navicula bacillum Achnanthydium microcephalum Orthosira dickieii
37	—  —	<del>2854</del> 1964	Pinnularia (Nav) appendi ..... Navicula bacillum Achnanthydium microcephalum Himant (idium) blank Fragil (avis) blank Orthosira dickieii
37	—  —	1982	Navicula bacillum Orthosira dickieii Achnanthydium microcephalum Himant Fragilaria virescens
37	—  —	E 24	Navicula bacillum Achnanthydium microcephalum Pinnularia gracilis Himant blank Fragil blank Orthosira dickieii
37	—  —	4513	Blank
38	—  —	E 25	Orthosira spinosa O. dickieii Tryblionella minor
38	—  —	E 26	Orthosira spinosa O. dickieii Odontidium murale Tryblionella minor Achnanthydium lanceolatum
38	—  —	2897	Orthosira spinosa Tryblionella O. dickieii minor

## TRAY 4 Bottom, cont.

38	Aberdeen	2844	Orthosira dickieii O. spinosa Odontidium mutabile Achnanthydium lanceolatum
38	Cove, Aberdeen	E27	Tryblionella gracilis Nav blank
38	-L	982	Tryblionella gracilis Orthosira dickieii Diades --- ?
38	-L	2852	Orthosira dickieii Tryblionella gracilis Nav blank
<u>TRAY 5 TOP</u>			
38	Cove, Aberdeen	4259	Diades ---- Tryblionella gracilis Orthosira dickieii
38	-L	4348	Tryblionella gracilis Orthosira dickieii Nav blank
38	-L	4561	Blank
38	-L	4347	Tryblionella gracilis Orthosira dickieii
38	-L	2855	Orthosira dickieii O. spinosa Tryblionella minor
38	-L	E28	Orthosira spinosa O. dickieii Tryblionella minor
38	-L	2876	Orthosira spinosa O. dickieii
39	Aberdeen	527	Cocconeoma cystula Denticula obrusa



TRAY 5 TOP, cont.

39	Rocks, Cove, Aberdeen	1961	Navicula angustata Cymbella scotica Denticula obtusa
39	-L	97	Achnanthydium <b>blank</b> Cymbella aequalis C. scotica Denticula obtusa
39	-	E29	Navicula angustata Denticula obtusa Cocconeia cistula Cymbella aequalis C. scotica
39	-L	4492	Ach(nanthydium) <b>blank</b> <b>Blank</b>

TRAY 5 MIDDLE

40	Hunters Bog, Edin	E30	Odontidium parasiticum <del>Odontidium</del> Amphora minutissima Navicula dicephala N. ovalis Achnanthydium lanceolatum
40	-L	2821	Odontidium parasiticum Amphora minutissima
40	-L	1895	Meridion constrictum Amphora minutissima A. ovalis
40	-L	2897	Achnanthydium lanceolatum Odontidium parasiticum Amphora minutissima
40	-L	240	Amphora minutissima Odontidium parasiticum
40	-L	238	ON Nitzschia Amphora minutissima ON Nitzschia

Cont. on 24

TRAY 5 Middle

41	Cumbræ	2512	Nitzschia angularis Schizonema cruciger Pleurosigma nubecula
41	-ll	3519	Schizonema cruciger Pleurosigma nubecula Nitzschia angularis
41	-ll	3522	Schizonema cruciger Nitzschia angularis
41	-ll	E31	Pleurosigma prolongatum P. nubecula Nitzschia angularis Schizonema cruciger (um)
41	-ll	3348	Pleurosigma prolongatum P. nubecula Nitzschia angularis Schizonema cruciger (um)
41	-ll	3341	Pleurosigma nubecula Cocconeis (oneis) diaph(on) See (disrupt M.S - W.G.) Schizonema cruciger (um)
<hr/>			
TRAY 5 Bottom			
41	Cumbræ	3340	Pleurosigma nubecula Schizonema cruciger (um) Cocconeis diaphon
45		7052	(disrupt W.G.)
45	R. Walton Derbyshire	2054	Navicula cryptocephala
45	-ll -ll	2580	Nitzschia linearis Pinnularia nodosa Nav. (undecipherable)
49	-ll	871	Gymbella ventricosa
45	Walton Lodge -ll	1938	Navicula rhyntocephala N. amphibaena

TRAY 5 Bottom

45	Walton Lodge	1938 (cont.)	Pinnularia mesolepta P. gracilis Surirella pinnata Pleurosigma spencerii
45	-L	E32	Pleurosigma spencerii Navicula affinis N. rhynchocephala Pinnularia mesolepta
45a	R. Walton	3369	P. gracilis Surirella pinnata <del>Pleurosigma spencerii</del>
45	-L	3840	Surirella pinnata S. minuta Pinnularia mesolepta P. gracilis Navicula rhynchocephala Stauroneis linearis
45	-L	3087	Pinnularia mesolepta P. gracilis P. radiosa Navicula rhynchocephala N. affinis N. producta Surirella pinnata
45	-L	3380	Pleurosigma spencerii (?) smith Nitzschia linearis B Navicula cryptocephala N. firma Pinnularia stauroneiformis
45	-L	4493	NIL
45a	-L	E33	Nitzschia linearis B N. tenuis

Cont. 26

## TRAY 5 Bottom

45a	R. Walton	E 33	<del>Nitzschia</del>
45a	↳	cont. 3017	Pleurosigma spencerii Pinnularia gracilis P. mesolepta Pleurosigma spencerii Nitzschia linearis $\beta$ Cymbella ventricosa
TRAY 6 Top			
45a	R. Walton	3368	Pleurosigma spencerii Nitzschia linearis $\beta$ N. tenuis Cymbella ventricosa
45a	Walton Lodge	3375	Pleurosigma spencerii
45b	R Walton	3373	Pleurosigma spencerii
45b	↳	2577	Nitzschia linearis $\beta$
45b	↳	E 34	Nitzschia linearis $\beta$
45?	↳	E 35	Pinnularia gracilis P. stauroneiformis
46	Hull	E 36	Odontidium harrisonii
46	Hull	2756	Odontidium harrisonii
47	Herilaw Well, Salcoats	E 37.	Synedra tenera S. radians
47	<del>Herilaw Well, Salcoats</del>	<del>4164</del>	<del>Synedra tenera</del> Orthosira orichalcea
47	Herilaw Well, Salcoats	4164	Synedra tenera <i>indecomposable delicatissima</i> Synedra radians Orthosira orichalcea
47	↳	1632	Himantidium majus H. pectinale Orthosira <sup>sic</sup> aurich(alcea) Amphipecta pellucida
47	↳	4182	Synedra tenera S. radians

## TRAY 6 Top Cont

47	Herilaw Well	4182	Himantidium arcus
		Cont.	Orthosira orichalcea
			Amphipleura pellucida
TRAY 6 Middle			
47	Herilaw Well	4512	Blank
48	-L	E38	Himantidium majus
			H [pectinata] <sup>Smidgen</sup>
			Orth[osira orichalcea] <sup>Smidgen</sup>
48	-  -	2842	Orthosira <sup>sc</sup> <u>aurichalcea</u> etc. etc.
49	Diren m. Braid (Hills)	4038	Synedra deformis
			S. radians
			Fragilaria capucina
49	-L	4037	Synedra deformis
			(S. fasciculata var)
			S. ulna
			S. radians
49	Braid Hills	1314	Fragilaria capucina
			S. deformis <sup>See Slide of</sup> NOTE Synedra deformis
49	-L	690	Cyclotella minutula
			Fragilaria capucina
			Synedra deformis
49	-  -	691	Cyclotella <sup>operculata in m/s</sup> minutuli (or z)
			Fragilaria capucina
			Synedra deformis
49	-L	4035	Synedra deformis
			Fragilaria capucina
49	Diren Braid Hills	E39	Fragilaria capucina <sup>(operculata in m/s)</sup> (not understood)
			Synedra radians
			S. deformis
			S. ulna
			S. obliterata
<del>49</del> 50	Saltcoats	4167	Coconeis diaphana (overwritten) on Cladostephus

Cont. 28

## TRAY 6 Imole

51	Plymouth	463	Cocconeis diaphana = ?
	TRAY 6 Bottom		
51	Plymouth	3394	Pleurosigma transversale Campylodiscus ralfsii
51	-ll-	3407	Podosira maculata Surirella lara
51	-ll-	3420	Podosira montagnei Surirella lara
51	-ll-	1576	Grammatophora serpentina Cocconeis diaphana
51	-ll-	3795	Grammatophora marina Surirella lara Amphitetras ant(i) diluviana Grammatophora serpentina Cocconeis diaphana
51	-ll- Tray 7	105	Actinocyclus undulatus
52	Arden	453	Podosira maculata
51	-ll-	3797	Surirella lara
52	Arden	1095	Campylodiscus ralfsii Podosira maculata
52	Arden	977	Cocconeis diaphana Amphitetras ant(i) diluviana
52	Arden	934	Grammatophora serpentina
51	-ll-	427	Campylodiscus ralfsii
52	Arden	640	Denticula (some double valve) Amphora <u>lindean</u>
53	Arden Quarry	3396	Cocconeis diaphana Surirella lara
51	-ll-	4065	Synedra <u>lindean</u> (small)
54	Hendon, Lanster	1867	S. <u>gallionii</u>
54	-ll-	4132	S. <u>fulgens</u> Cocconeis diaphana <i>overwritten</i> <del>Surirella</del> Amphipleura sigmoidea cont. 29

## TRAY 6 Bottom

51	Plymouth	140	Amphipleura sigmoidea Cocconeis diaphana <i>overwritten</i> Surirella lata Campylodiscus ralfsii Synedra <i>blank</i> small S. gallionii
51	-  -	3796	Surirella lata Campylodiscus ralfsii Cocconeis diaphana Synedra gallionii small
51	-  -	2304	Navicula praetexta Ehr. Surirella lata Campylodiscus ralfsii Cocconeis diaphana Synedra gallionii
<u>TRAY 7</u>		<u>TOP</u>	24.3.99
52	Ardressan	483	Cocconeis pediculus Denticula obtusa
52	nr. -  -	1095	Epithemia gibba Denticula obtusa
52	-  - stream	927	Denticula sinuata D. tenuis
52	-  - stream	934	Denticula tenuis D. sinuata
52	-  -	E40	Denticula tenuis D. sinuata
53	Ardeer Quarry	3326	Pleurosigma lacustra Navicula cryptocephala
53	-  -	E41	Pleurosigma lacustre
54	Hansom, Lan'ster	1868	Melosira varians
54	-  -	4132	Synedra radians Surirella panduriformis S. angusta

Cont. 30

TRAY 7 TOP cont.

54	Hansom, Lancaster	1867	Inelosira varians
55	Glenarm N.I	1731	Isthmia nervosa
56	Cumbræ	42E	Berkeleya fragilis
<u>TRAY 7 Middle</u>			
56	Cumbræ near	324	Berkeleya fragilis
58	Glasgow Bot. Gard	2579	Nitzschia linearis
58	near -	3371	Nitzschia linearis
59	Ulverstone	895	Denticula inflata Odontidium mutabile Amphora minutissima
59	-	243	Amphora minutissima Odontidium mutabile Denticula inflata
59	Ulverstone	2879	Obliterated } see reverse of p. 29
59	Ulverstone	490	Obliterated }
59	Ulverstone	E43	Cyclotella minutula not in indexes
59	-	893	Denticula inflata
61	-	1553	"Synedra debilis" V3909 Meridion circulare
59	-	4029	Synedra debilis see above Denticula inflata
61	Cumbræ	637	Meridion circulare
61	nv. Glas. Bot. Gard	3807	Surirella minuta Nitzschia minutula
61	-	3808	Surirella minuta not in indexes S. angusta Nitzschia minutula (deleted?)
<u>TRAY 7 BOTTOM</u>			
61	G. B. Gard. b'yard	2492	Nitzschia amphioxys (spec. name v. faint) Surirella angusta S. minuta



TRAY 7 BOTTOM Cont.

61	Gl. Bot. Gard brickyard	3835	Surirella pinnata S. minuta S. angusta Nitzschia <i>no spec. name</i>
61	-  - near	3725	Surirella angusta S. minuta Nitzschia <i>see above</i>
61	G. B. G. clay pool	2747	Nitzschia Surirella minuta S. pinnata
61	-  -	E 44	Surirella minuta S. angusta S. pinnata
62	nr. G. B. G.	4133	Synedra radians Gomphonema capitatum X
63	Woodside G'gow	3155	Pinnularia radiosa Gomph (blank)
63	-  -	1552	Gomph. <i>micropus = Kenellum var</i> <i>pencil: indistinct:</i> V1956 Pinnularia radiosa
64	Cumbræ	4	Achnanthes brevipes Inelosira nummuloides
66	Cumbræ	637	Coscinodiscus radiatus
66	-  -	3406	Podosira maculata P. montagnei P. a nodif (not in indexes)
<del>66</del>	<del>Cumbræ</del>	<del>228</del>	Eupodiscus ralfsii Coscinodiscus radiatus
66	Cumbræ	228	Amphora marina V1937 Cocconeis diaphana

Cont. on 32

## TRAY 8 TOP

66	Cumbræ	3942	Stauroneis pulchella
66	-h	1295	Eupodiscus ralfsii Coscinodiscus radiatus
66	-h	3536	Amphitetras Ant (i) d (eluviana) (Schi)gonema ( ) crux <i>Obscure</i>
66	-h	428	Pleurosigma nubecula <i>fact.</i> Campylodiscus ralfsii Eupodiscus ralfsii Rhabdonema adriaticum R. arcuatum
66	-NIL-	3429	Amphitetras ant (i) deluviana Podosira montagnei Pleurosigma nubecula P. strigosum
66	Cumbræ	1284	Eupodiscus ralfsii on Cladostephus
66	-h	2515	Nitzschia angularis Pleurosigma nubecula Schiogonema crux
66	-h	4224	Synedra ----- (small) Amph. marina <i>Tray 7: 218</i>
66	-h	4222	Schiogonema cruciger (see 3536: 2515) Synedra (small) Amph. marina <i>see 4224</i> Rhabdonema adriaticum R. arcuatum
66	-h	4221	Eupodiscus ralfsii Synedra (small) Amph. marina <i>see 4224</i>
66	-h	3535	Schiogonema crux <i>see above</i> Coeconeis diaphana Pleurosigma nubecula

Cont. 33

TRAY 8 TOP (cont.)

60	Cumbræ	1296	Eupodiscus ralfsii Podosira montagnei Aph Amph(i) tetras antediluviana Cocconeis diaphana also Podoc. nodiger not in index Orthosira marina Amphor. scotica not in index Navicula didyma
<u>TRAY 8 MIDDLE</u>			
66	Cumbræ	2211	Navicula liber Stauroneis pulchella Pleurosigma nubecula
66	—	2393	Navicula smithii N. liber Eupodiscus ralfsii E. fulvus Coccinodiscus radiatus Cocconeis diaphana Podosira montagnei P. nodiger see 1296 Stauroneis pulchella Grammatophora serpentina Rhabdonema arcuatum
66	Cumbræ	1288	Eupodiscus ralfsii E. sparsus Greg Pleurosigma nubecula P. lacustre Cocconeis diaphana
66	Cumbræ	3349	Pleurosigma prolongatum P. nubecula Cocconeis diaphana Campylodiscus ralfsii Eupodiscus ralfsii

## TRAY 8 huddle Cont.

66	Cumbræ	197	Amphitetras antideluviana Rhabdonema adriaticum R. arcuatum Eupodiscus ralfsii Amphora marina 7-228
66	Cumbræ	465	Cocconeis ( <u>dirupta</u> W.G) ?? C. diaphana fide Smal ? C. scutellum Amphora marina 7-228
67		3370	Rhabdonema arcuatum R. minutum Podocira maculata
66	-h-	1289	Eupodiscus ralfsii
68	Wells, Corcoran School	587	Amphitetras antideluviana Rhabdonema adriaticum
68		3214	R. arcuatum Amphora marina (7-228)
66	-h-	3443	Rhabdonema adriaticum R. arcuatum R. minutum Amphitetras antideluviana
68		69	Eupodiscus ralfsii
66	Cumbræ	198	Amphitetras antideluviana Rhabdonema adriaticum
68		583	R. curvatum Eupodiscus ralfsii
66	-h-	196	Amphitetras antideluviana B
66	-h-	E45	Pleurosigma nubecula P. lacustre P. prolongatum Cocconeis diaphana Eupodiscus ralfsii

Cont. 35

Cont. 36

Tr. 28 middle (cont.)

31.3.99

67	Clay Pools G.B.G.	E46	Nitzschia dubia N. tenuis N. linearis Pleurosigma spencerii
<b>Berrem</b>			
67	Clay Pools G.B.G.	2688	Nitzschia tenuis N. linearis N. dubia Pleurosigma spencerii
67	-L-	3370	Pleurosigma spencerii
68	Well, Perceron School	587	Colletonema vulgare
68	Well Ayrshire	1345	Achnanthydium lanceolatum
68	-L-	3214	Pinnularia mesolepta P. viridula (check, please) [viridis]
68	-L-	1031	Orthosira orichalcea O. mirabilis (check) <sup>Smogged and overwritten</sup>
68	-L-	69	Colletonema vulgare Achnanthydium lanceolatum
68	-L-	647	Navicula rhomboides Pinnularia gracilis
68	-L-	583	Colletonema vulgare Achnanthydium lanceolatum
68	-L-	4436	No Names
68	-L-	3182	Pinnularia tabellaria P. mesolepta var.
69	-L-	548	Orthosira mirabilis O. orichalcea Fragilaria virescens Achnanthydium lanceolatum

TRAY 8 Bottom cont.

68	Wellar Perceton Sch Ayrshire	2870	Orthosira mirabilis O. orichalcea Pinnularia mesolepta var.
68	—	997	Diatoma elongatum Fragilaria <del>virescens</del> <sup>vir</sup> capucina var
71		1917	Colletonema vulgare
71		E49	Achnantheidium lanceolatum
72		E50	2 SLIDES MISSING
72	TRAY 9 Top	449	
68	Perceton Sch. 9 TRAY 9	1346	Fragilaria capucina var. Diatoma elongatum
72	Cumbrae	469	Colletonema vulgare (W.G.)
72	Cumbrae	514	Achnantheidium lanceolatum
68	Well →	1345	Fragilaria capucina var. Diatoma elongatum Colletonema vulgare
73	→	1961	Achnantheidium lanceolatum
68	—	1031	Fragilaria virescens Orthosira mirabilis
73		539	Pinnularia mesolepta P. tabellaria
68	—	E47	Fragilaria capucina Diatoma elongatum
73	→	925	Pinnularia tabellaria P. mesolepta
73	→	1774	Orthosira mirabilis O. orichalcea Colletonema vulgare
73	→	1773	Achnantheidium lanceolatum
69	Cumbrae	E48	Podosira nodifera P. montagnei Amphora scotica (sic)

TRAY 9 Top Cont.

69	Cumbræ	3415	Podosira montagnei P. nodifer Amphora scotica
69	Cumbræ	233	Amphora marina Podosira hormoides P. montagnei (on sphae race)
71	nr. Glas. Bor. G'den	1917	Navicula affinis (crassinervia)
71	-L	E49	Navicula affinis (crassinervia)
72	Cumbræ	E50	Cocconeis diaphana overwritten [RUPTA]?
72	-L	468	as above

TRAY 9 TOP ONE SLIDE MISSING

TRAY 9 Middle

72	Cumbræ	462	Cocconeis di-cepra (W.G.)
73	Cumbræ	514	Cocconeis thwaitesii
73	-L	1928	Cocconema cymbiforme Navicula ovalis Denticula obtusa
73	-L	1961	Navicula angustata N. ovalis
73	Cumbræ	3874	Cocconema cymbiforme
73	-L	539	Cocconema cymbiforme Cocconeis thwaitesii Navicula ovalis
73	-L	3873	Denticula obtusa
73	-L	925	Denticula sinuata Cocconema cymbiforme
73	-L	1774	Mastogloia smithii Navicula ovalis
73	-L	3871	Cocconema cymbiforme
73	-L	1773	Mastogloia smithii Navicula ovalis Cocconema cymbiforme Himantidium arcus

TRAY 9 BOTTOM cont.

73	Cumbræ	2720	Nitzschia blank Denticula blank
73	Cumbræ	2454	Cocconema cymbiforme Navicula blank Denticula blank Cocconeis Hwaitesii Cocconema cymbiforme
73	-	1142	Epithemia rupestris E. zebra E. arcus E. gibba
73	-	2264	Navicula oculata Grb. V:2702 (c elliptica N. parmelia
73	-	929	Denticula blank sinuata Hemantidium arcus Cocconema cymbiforme
73	-	4417	Blank
73		E51	Nitzschia blank Navicula angusta Dentic. blank Cocconema cymbiforme Odontidium mutabile Masaglia smithii
2 SLIDES MISSING			
TRAY 10		TOP	
73	Cumbræ	536	Cocconema cymbiforme
73	+	542	Cocconema cymbiforme
73	-	E52	Cocconema cymbiforme
74	Queens Park	3916	Stauroneis linearis Navicula dicephala Nitzschia dubia

Cont. 40

Cont. 41



TRAY 10 Top Cont

7.4.1999

74	Queens Park Edin	730	Cymatopleura solea : Nitzschia dubia Stauroneis linearis
74	-  -	3917	Stauroneis linearis : Nitzschia dubia Navicula dicephala
74	-  -	2715	Nitzschia vivax : Navicula dicephala Nitzschia dubia : Navic. amphir[hynchus] Cymatopleura solea :
74	-  -	2070	Navicula dicephala : Stauroneis linearis N. amphirhynchus : S. undulata <sup>see</sup> 2541
74	-  -	2541	Nitzschia dubia . Nitzschia amphioxys Nitzschia dubia var : N. dubia : Navicula dicephala Stauroneis undulata (var in Pritchard) <sup>V. 3735</sup> Surirella ovalis
74	-  -	2550	Nitzschia dubia N. dubia (var) N. amphioxys Surirella pinnata S. ovalis Cymatopleura solea
74	-  -	2708	Nitzschia vivax : Navicula dicephala : N. dubia : Cymatopleura solea : Tryblionella apiculata (Pritchard)
74	-  -	4304	Tryblionella apiculata Nitzschia dubia : Navicula dicephala N. ? : Cymatopleura solea Surirella ovalis : Surirella pinnata
TRAY 10 MIDDLE			
74	Queens Park	2551	Nitzschia dubia : Navicula dicephala N. amphioxys : N. amphirhynchus Stauroneis linearis : Surirella ovalis S. undulata see 2541

TRAY 10 Middle Cont.

74	Queens Park Edin.	2553	Nitzschia dubia followed by notes Navicula dicephala N. amphirhynchus Stauroneis linearis S. undulata Surirella ovalis Navicula binodis Tryblionella apiculata Achnanthydium lanceolatum
74		E50	2551 repeated
74'	-L-	4438	-NIL-
74	-L-	3834	Surirella pinnata S. ovalis
74		1885	Nitzschia dubia a Var B
74		E57	Navicula dicephala
74		E58	Stauroneis linearis
74'		3964	Stauroneis undulata S. linearis Navicula dicephala Nitzschia dubia a B
74'	-L-	E53	Stauroneis undulata S. linearis
74		2878	Navicula dicephala Nitzschia dubia a B
74	-L-	E54	Navicula amphirhynchus N. dicephala Stauroneis linearis Surirella ovalis Nitzschia dubia a B
75	Ardrossan	E55	Nitzschia sigmoidea Coconema lanceolatum
75	-L-	2657	Nitzschia sigmoidea: Synedra radians Coconema lanceolatum Meridion circulare

Cont. on 42

## TRAY 10 Middle Cont.

76	R. Kenner	2402	Navicula sphaerophora Coeconema lanceolatum
76	-  -	E56	Synedra radians : Meridion circulare Navicula sphaerophora Pinnularia sp. : Odontidium <sup>tabellaria</sup> Stauroneis punctata Odontidium mutabile
TRAY 10 Bottom			
77	Canal to Bowling	1077	Encyonema prostratum Melosira varians
78	Barthead R. Star	85	Achnantheidium microcephalum? (Achn(anthe)s exilis junior fide S.M)
79	Strathbungo	1885	Meridion circulare
79	-  -	E57	Meridion circulare
80	Newhaven, Sussex	E58	Pleurosigma balticum P. littorale P. distortum Pinnularia directa P. johnsonii
80	-  -	2977	Pinnularia directa Pleurosigma distortum
80	-  -	2976	Pinnularia directa Pleurosigma distortum P. littorale
80	-  -	3046	Pinnularia johnsonii P. directa Pleurosigma distortum P. littorale P. balticum
80	-  -	E59	Pleurosigma distortum P. littorale Pinnularia directa P. johnsonii

## TRAY 10 Bottom Cont.

80	Newhaven, Sussex	3333	Pleurosigma littorale P. distortum P. balticum	
82		2607	Pinnularia directa P. johnsonii	
2 Slides missing				
<u>TRAY 11 Top</u>				
80	Newhaven, Sussex	3334	Pleurosigma littorale P. distortum Pinnularia directa P. johnsonii	
61/81	Ardrossan	172	Homoeoclada filiformis Schiz. Blank	
81	Ardrossan	3664	Schizonema Blank	
81	-L	1690	Homoeoclada filiformis Schiz. Blank	
81	-L	449	M Blank	
81	-L	3557	Schizonema dillwynii	V 3647
81	-L	3550	Schizonema dillwynii Homoeoclada filiformis	
82	Barrhead	2748	Nitzschia Blank Tryblionella epiculata Surirella ovalis	
82	-L	3171	Pinnularia stauroneisformis <del>Stauroneis</del> for. see above: correction	
84	Salween	201	Surirella ovalis Nitzschia dubia N. minutissima	
82	-L Rwy Spa	2952	Pinnularia cinerea Ehr. P. stauroneisformis Nitzschia dubia Surirella ovalis	V. 3216

TRAY 11 Top Cont. 21.4.99

82	Barrhead Rly. Sta	3820	Surirella ovalis Pinnularia stauroneiformis Nitzschia dubia A N. palea
82	-L	2607	Nitzschia palea Tryblionella apiculata Pinnularia stauroneiformis

TRAY 11 Middle

82	B'head Rly. Sta	2552	Nitzschia dubia B N. palea
82	-L	2169	Surirella ovalis S. pinnata S. minuta Pinn (blank) V.3310 Pinnularia stauroneiformis (Brebissonii, Kg) Surirella ovalis Tryblionella apiculata Pinnularia cineta Ehr. V.3216 Nitzschia palea
82	-L	E 60	Pinnularia cineta Ehr. (digitoradiata W.G) V.3225 P. stauroneiformis Surirella ovalis Tryblionella apiculata Nitzschia palea
82	-L	4437	4.3. (18) 54 Blank
83	-L	3810	Surirella minuta Pinnularia radiosa
84	Saltcoats	E 61	Synedra arcus S. gallionii S. tabulata V.3945
84	-L	4072	Podosira hormoides Synedra gallionii Podos. hormoides S. tabulata melosira S. arcus nummuloides

## TRAY 11 MIDDLE CONT.

84	Saltcoats	4017	<i>Synedra arcus</i> <i>S. gallionii</i> <i>Pinnularia cluthiensis</i> = <i>P. varians</i> ?
84	-L	2955	<i>Pinnularia cluthiensis</i> = <i>N(P) varians</i> <i>Synedra arcus</i> (= <i>arcus</i> CPR) <i>S. gallionii</i>
84	Saltcoats	1841	<i>Melosira nummuloides</i> <i>Podosira normoides</i> <i>Synedra arcus</i>
85	-L	E 62	<i>Synedra affinis</i> <i>Syn. investiens</i> (one) SLIDE MISSING
<u>TRAY 11 BOTTOM</u>			
85	Saltcoats	3984	<i>Synedra affinis</i> <i>S. gallionii</i> <i>S.</i>
86	-L	3981	<i>Synedra affinis</i> var. <i>obtusata</i>
86	-L	3982	<i>Synedra affinis</i> var. <i>obtusata</i>
86	-L	3577	<i>Schizonema helmintosum</i> <i>Synedra affinis</i>
86	-L	3585	<i>Schizonema helmintosum</i> fide S.M. in litt. <i>Synedra arcus</i> ? Skize 29-32 habit. of <i>S. affinis</i> <i>Rhabdonema arcuatum</i>
86	-L	E 63	<i>Synedra affinis</i> var. <i>obtusata</i>
87	-L	2702	<i>Nitzschia virgata</i> Pitman 780 <i>Pinnularia gracilis</i> var. <i>curta</i>
87	-L	3403	<i>Podosira normoides</i> <i>Cocconeis diaphana</i> <i>Pinnularia curta</i> S.M. m/s
87	-L	425	<i>Campylodiscus ralfsii</i> <i>Pinnularia</i> (blank) <i>Cocconeis diaphana</i>

## TRAY 11 Bottom Cont.

87	Saltcoats	466	Cocconeis [disrupta] see Pritchard 868 Podosira hormoides P. montagnei
87	-	2277	Navicula palpebrata N. humerosa
87	-	3587	Schizonema helmentosum Pinnularia cluthiensis Synedra blank
92	-	1650	Cocconeis diaphana Podosira hormoides

## TRAY 12 Top

87	Saltcoats	2954	28.4.99 Pinnularia cluthiensis P. ? varians Not traced in Lit
92	Lancaster	E67	Synedra blank Schizonema helmentosum
87	Saltcoats	E64	Pinnularia cluthiensis P. ? varians W.G. fig 35.6 see 2954
92	Quadrant Loch	1157	Schizonema helmentosum Synedra blank
87	-	4071	Synedra gallionii + S. blank Schizonema helmentosum
92	-	464	Cocconeis diaphana
92	-	2332	Podosira hormoides
88	Leppa (Edin)	3566	Schizonema grevillii
88	-	3572	Schizonema grevillii
88	-	3569	Schizonema grevillii
88	-	3565	Schizonema grevillii
88	Annistonia	E65	Schizonema grevillii
89	Saltcoats	E66	Rhabdonema arcuatum
89	-	3453	R. arcuatum or Cladoph.
89	-	3452	Rhabdonema arcuatum Amphitetras antediluviana on Poly. nigra

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TRAY 12 Top Cont.

89	Saltcoats	3449	Rhabdonema arcuata Grammatophora serpentina	
	<u>TRAY 12 MIDDLE</u>			
91	Saltcoats	3632	Schizonema Smithii S. grevillii	
92	Quernmore nr Lancaster	1532	Gomphonema tenellum Synedra radians Himantidium pectinale	
92	-  -	1650	Tabellaria flocculosa H. pectinale	
92	Quernmore	4243	Synedra radians (m/s notes) Tabellaria flocculosa (from m/s notes) Himantidium pectinale	} black on red
92	Lancaster	E 67	Himantidium pectinale Synedra radians Gomphonema tenellum	} black on red
93	Duddingston Loch	1157	Epithemia furgida	
93	+	3896	Stauroneis dubia W.G. Pritchard S. gracilis S. anceps Navicula limosa	✓2641
93	+	4641	Blank	
93	-  -	2132	Navicula gibberula var. N. semen fide Sm N. dicephala + Epithemia and Stauroneis	
93	-  -	E 68	Navicula semen + Stauroneis N. gibberula var. and Epithemia	
94	Annie'sland Glasgow	2513	Nitzschia amphioxys Navicula cryptocephala	
94	-  -	2408	Navicula cryptocephala Pinnularia stauroniformis P. [nas] W.G. Nitzschia amphioxys	



TRAY 12 Bottom

94	Anniestand 1911	2945	Navicula cryptocephala Pinnularia stauroniformis
97	-	1881	Nitz. blank
94	-  -	2046	Navicula cryptocephala Pinnularia nana Greg P. stauroniformis
94	-L	2047	Navicula cryptocephala Pinnularia nana
97	-	2672	P. stauroniformis
94	-  -	3168	Pinnularia stauroniformis P. nana Greg Navicula cryptocephala Nitzschia blank
94	-  -	3100	Pinnularia nana Greg P. cinerea Ehr.
94	-  -	2951	Pinnularia cinerea Ehr. P. nana Greg
94	Canal Barling	2937	Nitzschia blank Pinnularia nana Greg
99	-	4042	P. stauroniformis
		E69	Pinnularia nana W. Greg P. cinerea Ehr. P. stauroniformis
99	-	572	Navicula cryptocephala Nitzschia blank
95	Kinghorn FIFE	1003	Diatoma elongatum Surirella ovata
95	-L	999	Diatoma elongatum
95	-L	E70	Diatoma elongatum Surirella ovata
96	-L	1830	Melosira nummuloides Surirella ovata

TRAY 13 TOP

96	Kinghorn FIFE	338	Biddulphia aurita Melosira nummuloides
97	-	1831	Melosira nummuloides Synedra affinis
97	-	4336	Tryblionella apiculata Amphiproora constricta Synedra affinis Biddulphia aurita
97	-	4672	Blank
97	-	3983	Synedra affinis Melosira nummuloides Achnanthes brevipes Biddulphia aurita
97	-	E71	Amphiproora constricta Tryblionella apiculata Melosira nummuloides Synedra affinis
98	Canal Bowling	4047	Synedra fasciculata S. deformis
98	-	4042	Synedra fasciculata S. <sup>BR</sup> <del>deformis</del> S. vaucheriae S. minutissima
98	-	E72	Synedra fasciculata S. <sup>BR</sup> <del>var. deformis</del> S. vaucheriae S. minutissima
99	KINGHORN FIFE	4095	Synedra investiens
99	-	E73	Synedra investiens
100	-	E74	Navicula cryptocephala Pinnularia radiosa Surirella ovata

## TRAY 13 Middle

5.5.1999

100	Kinghorn FIFE	2734	Navicula cryptocephala Pinnularia radiosa
100	-  -	3152	Pinnularia radiosa Navicula cryptocephala Nitzschia blank Surirella ovata
100	-  -	2056	Navicula cryptocephala Nitzschia blank Pinnularia radiosa Surirella ovata
101	-  -	3823	Surirella ovata Pinnularia radiosa
102	-  -	537	Cocconeoma cymbiforme Surirella ovata
103	Dunsapie Loch Edin	1064	Encyonema caespitosum
103	-  -	75E	Encyonema caespitosum
103	-  -	1062	Encyonema caespitosum
104	Canal, Boobing	76E	Pinnularia radiosa Gomphonema curvatum Synedra minutissima S. pulchella
104	Canal, Boobing	3156	Pinnularia radiosa Gomphonema curvatum Synedra minutissima
104	-  -	3157	Pinnularia radiosa Gomphonema curvatum Synedra minutissima S. pulchella
105	Cumbrae	2507	Nitzschia angulzsis Schizoneuma comoides

Cont. 51

Cont. 52

TRAY 13

Bottom

105	Cumbræ	1308	Eupodiscus subtilis Ralfs Schizonema comoides Nitzschia angularis
105	-	3512	Schizonema comoides Nitzschia angularis
105	-	77E	Schizonema comoides Eupodiscus subtilis Nitzschia angularis
105	-	3510	Schizonema comoides : Schizonema araneus
106	-	3681	Schizonema blank
106	-	3610	Schizonema obtusa
107	-	78E	Schizonema smithii : Schizonema ? (rundes)
107	-	3680	Schizonema blank : Schizonema laciniatum
107	-	3633	Schizonema smithii
107	-	3648	Schizonema smithii
108	-	3546	Schizonema dillwynii
108	-	E79	Schizonema dillwynii

TRAY 14 TOP

109	Duddingston Loch opendiren	75	Achnantheidium lanceolatum Stauroneis gracilis
110	-	E80	Navicula sphaerophora N. ampli rhyntus N. rhyntocephala N. cuspidata N. amphibaena
110	-	1941	Navicula amphibaena N. cuspidata
110	-	3126	N. rhyntophor not in Van N. ampli rhyntus
110	-	2125	Navicula firma N. amphibaena N. rhyntocephala Pinnularia oblonga

TRAY 14 TOP cont.

110	Duddingston Loch (stream)	1982 28	Navicula amphirhynchus N. rhyncho(cephala) ph. not traced N. cuspidata Pinnularia blank
110	-L	2036	Cyclofella minutula ✓ 1119 Navicula cuspidata N. rhynchophor. not traced. N. amphibaena N. amphirhynchus Pinnularia blank
110	-L stream	4629	Faded
110	-L -L	3211	Navicula cuspidata N. amphibaena N. ambigua N. producta
112	Saltcoats	2480	Navicula blank Pinnularia nobilis No other of the Navic. seen: probably an inter- loper. One like it was seen in 156 or S. 220 but could not be again found to be mounted.
112	Saltcoats	3113	Pinnularia nobilis P. major P. viridis P. acuminata
112	-L	3705	Stauroneis anceps var.
112	-L	3201	Pinnularia (Nav) varians var. W.G.
<hr/>			
TRAY 14 MIDDLE			
112	Saltcoats	3126	Pinnularia nodosa var. P. hemiprera Staur. N.Kz.
112	-L	81E	Pinnularia major P. viridis & viridis var. 22 P. acuminata P. nobilis

TRAY 14 MIDDLE Cont.

114	Hunterston	E 82	Synedra minutissima S. ulna Pinnularia radians Meridion circulare Gomphonema fenellum Surirella ovata
114	-ll	4197	Synedra ulna S. minutissima Pinnularia radians Meridion circulare Gomphonema fenellum Surirella ovata
114	-ll	3163	Pinnularia radians Synedra minutissima Navicula cryptocephala
114	-ll	3153	Pinnularia radians Synedra ulna S. minutissima Meridion circulare Gomphonema fenellum Surirella ovata
114	-ll	1888	Meridion circulare Synedra minutissima S. ulna Gomphonema fenellum Pinnularia radians
114	-ll	2044	Navicula cryptocephala Pinnularia radians Synedra minutissima
114	-ll	1541	Gomphonema fenellum Pinnularia radians Synedra minutissima Synedra ulna Meridion circulare Surirella ovata

TRAY 14 MIDDLE Cont.

? median line but no nodules

V153

115	Granton Quarry	111	Amphipleura danica (overwritten) P783
115	-ll-	E 83	Pinnularia directa Amphipleura dupler? not traced A. danica Nitzschia sigma Achnanthes sub sessilis
115	-ll-	2974	Pinnularia directa Amphip. blank
119	Hull	3251	Nitzschia sigma Achnanthes sub sessilis

TRAY 14 BOTTOM

115	Granton Quarry	2975	Pinnularia directa
120	River Cladder	2606	Nitzschia sigma
120	-ll-	3297	Amphipleura [alata] var. Amphiprora? alata? Achnanthes sub sessilis
115	-ll-	2646	Nitzschia sigma
120	-ll-	4331	Achnanthes sub sessilis
121	Castle Carr (S)	E 85	Pinnularia directa Amphipleura [alata] var. Amphiprora? alata?
115	-ll-	170	Amphiprora blank
121	-ll-	1218	Pinnularia directa
121	-ll-	1920	Amphipleura danica
123	Ulverston	1181	Nitzschia sigma Achnanthes sub sessilis
115	-ll-	54	Achnanthes sub sessilis Nitzschia sigma
122	-ll-	E 86	Pinnularia directa Amphiprora alata var.
116	Wray, Lancs	1002	Diatoma elongatum (12.5.99)
116	-ll-	1078	Encyonema prostratum Cymatopleura elliptica
118	Dunsapie Loch	E 84	Nitzschia curvula
118	-ll- Edin	2730	Nitzschia blank

Cont. 55

TRAY 14 Bottom Cont.

118	Dunsappie Loch	2659	Nitzschia sigmoidea N. linearis Pleurosigma lacustre Navicula cuspidata N. amphibaena
118	-L	2726	Nitzschia blank
<u>2 Slides missing</u>			
<u>TRAY 15 TOP</u>			
119	Hull	3251	Pleurosigma angulatum P. fasciola P. hippocampus P. elongatum
120	River Cleddau	2636	Nitzschia sigma
120	-L-	3297	Pleurosigma fasciola Tryblionella blank Pinnularia gracilis
120	-L-	4331	Tryblionella apiculata
121	Castle Carr(e)y	E 85	Eunotia gracilis var [exigua] (Himantidium exiguum) <u>Fitchard P766</u>
121	-L	1216	Eunotia gracilis var. H. exiguum
121	-L	1218	E. gracilis var. H. exiguum
121	-L	1220	————— " —————
122	Ulverstone	1101	Epithemia gibba E. alpestris E. rupestris E. ocellata
122	-L	E 86	Campylodiscus spiralis C. costatus
122	-L	1176	Epithemia gibba var. E. rupestris E. gibba Campylodiscus spiralis C. costatus



## TRAY 15 Top Cont

123	Prestwick	3762	Surirella crumena Navicula elegans N. amphisbaena B Stauroneis linearis Pinn(ularia) blank
<u>TRAY 15 MIDDLE</u>			
123	Prestwick Powburn	2295	Navicula pectinatis Surirella crumena
123	-  - -  -	2152	Navicula [humerosa] <sup>specie name overwritten</sup> Pinn(ularia) crossed out - illegible Surirella crumena
123	-  - -  -	2287	♂ Navicula pectinatis
123	-  - -  -	1910	Meridion marinum <sup>Pritchard P.768</sup> Navicula = Pinnularia pygmaea Ehrh Surirella crumena
123		1937	Navicula amphisbaena N. humerosa N. elegans Surirella crumena
123	-  - -  -	4504	"Diatomacea"
123		E 87	Navicula pectinatis Navicula = Pinnularia pygmaea Ehrh Surirella crumena Meridion <sup>overwritten?</sup> marinum P768 <sup>followed by ? "mutabilis var.?"</sup>
124	Tilbury Fort	53	Achnanthes subsessilis A. longipes
125	-  -	29	Achnanthes longipes
126	Corrieghills	2091	Navicula pectinatis N. elegans N. amphisbaena
126	-  -	2311	Navicula punctulata in N. elegans Pinn (blank)

TRAY 15 MIDDLE Cont.

126	Corrieghills	2757	Odontodinium harrisonii O. mutabile Meridion [marin ---]
<u>TRAY 15 BOTTOM</u>			
126	Corrieghills	1912	Meridion marinum ? Odontodinium mutabile Navicula elegans N. amphibaena Pinnularia gracilis
126	-L-	2090	Navicula elegans N. amphibaena N. dicephala (? Pinn. by A. Gray) Odontodinium mutabile Meridion marinum
126	-L-	2809	Odontodinium mutabile O. harrisonii Meridion? mutabile Navicula elegans N. amphibaena
126	-L-	E88	Navicula amphibaena N. elegans (Pinn. pygmaea Ehr.) Stauroneis crucicula Odontodinium mutabile Meridion marinum
127	Goatfell	4248	Tabellaria flocculosa T. fenestrata
128	Osmundz Rock Arran	4255	Tabellaria flocculosa Gomphonema acuminatum
128	2nd N-Bredick	1423	Gomphonema acuminatum G. dichotomum Synedra tenera Tabellaria flocculosa

TRAY 15 **BOTTOM** Cont. 19.5.99

128	2ml J. Brodick	4181	Synechocystis Gomphonema acuminatum Tabellaria flocculosa
129	Cornieghills	2296	Navicula pectinatis
129	--	2468	Smellon (rt. hand ? on) P. Navicula mutabilis <i>Cannot understand this.</i>
129	-- saltmarsh	1911	Meridion marinum <i>See Pri. p 768</i> <b>1 Slide missing</b>

**TRAY 16 TOP**

129	Cornieghill saltmarsh	E89	Odontidium mutabile Meridion marinum WG <i>see above</i> Navicula (rim) pygmaea
130	-- cave	E90	Navicula firma. N. ovalis Stauroneis anceps
131	--	341	S. phoenicenteron ? Campylodiscus [rectangularis]
130	-- --	3947	Stauroneis rectangularis S. phoenicenteron S. gracilis
131	--	673	S. anceps
130	-- --	2133	Navicula gibberula N. firma N. ovalis N. ambigua N. ?
131	--	E91	Stauroneis rectangularis
131	Largs to W13 (B?)	1852	Melosira subflexilis Cyclotella kutzingiana Navicula elegans Odontidium mutabile
131	Skelmorie Bay	2182	Navicula laevissima, N. amphibiaena Pinnularia pygmaea? P. integra, Odontidium mutabilis

Cont. 59

## TRAY 16 TOP CONT.

131	Skelmorlie Bay	2182	Melosira subflexilis Cyclotella kurzingiana
131	-ll-	2791	Odontidium mutabile Pinnularia integra, P. pygmaea Ehr. Navicula ? Melosira subflexilis
131	-ll-	3034	Cyclotella kurzingiana Pinnularia integra, P. pygmaea Ehr. P. radiosa Navicula laevissima N (Pinn.) varians Odontidium mutabile Melosira subflexilis Cyclotella kurzingiana
131	-ll-	3141	Pinnularia pygmaea P. radiosa P. (Nav.) varians P. integra Navicula laevissima
131	-ll-	672	N. amphibaena Melosira subflexilis Cyclotella kurzingiana Melosira subflexilis Odontidium mutabile Pinnularia pygmaea: P. integra Navicula laevissima; N. amphibaena: Pinnularia varians
131	-ll-	E91	Melosira subflexilis Cyclotella kurzingiana Odontidium mutabile Pinnularia pygmaea: P. integra P. (Nav.) varians Navicula laevissima N. amphibaena N. elegans

Cont. 60

TRAY 16 TOP Cont

133	Breydon, N'folk.	E92	Chaetoceros wighamii Campylodiscus clypeus Navicula lanceolata Mastogloia smithii	R. 10862
<hr/>				
<u>TRAY 16 MIDDLE</u>				
133	Breydon	<del>204</del> 204	Amphora affinis Campylodiscus clypeus Navicula lanceolata N. Kumens	
133	-ll-	442	Epithemia gibba Chaetoceros wighamii Campylodiscus clypeus Mastogloia smithii	
133	-ll	445	Chaetoceros wighamii Campylodiscus ? Epithemia constricta Surirella striatula	
133	-ll	E93	Navicula lanceolata N. Kumens Amphora affinis Mastogloia danseii : M. smithii Surirella striatula Chaetoceros wighamii	
133	-ll	4154	Synedra tabulara: S. affinis! Campylodiscus clypeus Surirella striatula Mastogloia danseii : M. smithii	
133	-ll	3851	Surirella striatula: Campylodiscus clypeus Mastogloia danseii. M. smithii: Synedra blank	
133	-ll	3849	Surirella striatula Campylodiscus clypeus Mastogloia smithii : M. danseii :	Synedra blank

## TRAY 16 MIDDLE CONT

133	Breydon N'folk	3991	Synedra affinis: S. unculata <sup>both in pencil</sup> Campylodiscus clypeus Surirella striatula Mastogloia smithii: M. danseii
133	-  -	2414	Navicula rumens: N. lanceolata
133	-  -		Amphora affinis Campylodiscus clypeus Surirella striatula Mastogloia danseii
133	-  -	388	Campylodiscus clypeus Surirella striatula Navicula rumens: Mastogloia smithii: M. danseii. Synedra acicularis. S. tabulata S. affinis
134	-  -	1751	Mastogloia smithii: M. danseii Campylodiscus clypeus Amphora affinis Navicula lanceolata: N. rumens
134	-  -	4153	Synedra tabulara: S. affinis <sup>pencil</sup> S. acicularis Mastogloia danseii: M. smithii.
TRAY 16 BOTTOM			
134	Breydon	3986	Synedra affinis: S. tabulara <sup>pencil</sup>
		3847	Surirella striatula Campylodiscus clypeus Synedra acicularis S. affinis S. tabulara
134	-  -	3852	Surirella striatula Campylodiscus clypeus Navicula rumens Mastogloia smithii M. danseii

Cont 62

cont 63

TRAY 16 Bottom Gnr

27.5.1999

134	Breydon N'foer	387	Campylodiscus clypeus Navicula tumens Surirella striatula
134	-  -	E94	Inastogloia danesii: M. smithii Surirella striatula Campylodiscus clypeus Amphora affinis Navicula tumens: Inastogloia danesii: M. smithii
135	-  -	2413	Navicula tumens: N. amphibiaena
136	Den bemond	4247	Pleurosigma strigilis:
136	-  -	1051	P. elongatum Amphora affinis
135	-  -	203	Amphora affinis
137	-  -	5033	Cyclotella kutzingiana Epithemia proboscidea Navicula tumens
135	-  -	705	Cyclotella punctata: C. kutzingiana Amphora affinis Epithemia gebra Pleurosigma strigilis
135	-  -	3384	Pleurosigma strigilis: P. elongatum P. angulatum: P. hippocampus P. fasciola:
135	-  -	317	Bacillaria paradoxa Epithemia gebra: Pleurosigma strigilis Amphora affinis Surirella striatula
135	-  -	1174	Epithemia gebra: E. venticosa Cyclotella kutzingiana: Pleurosigma strigilis Amphora affinis

ONE SLIDE MISSING

Cont. 63

TRAY 17 TOP

135	Breydon N'folk	1165	Epithemia ventricosa : E. zebra Cyclotella kützingeriana Pleurosigma stigmatidis Amphora affinis
135	-ll	E95	Cyclotella kützingeriana Amphora affinis
138	-ll	2261	Epithemia zebra : E. ventricosa
138	-ll	2021	Pleurosigma stigmatidis
137	-ll	E97	Bacillaria paradoxa
135	-ll	4519	Blank
136	Ben Lomond	4247	Tabellaria flocculosa
136	-ll	1681	Hemantidium blank
			Tabellaria flocculosa
136	-ll	4250	Tabellaria flocculosa
137	-ll	3033	Pinnularia hemiptera Cymbella helvetica : C. affinis Eunotia incisa P763 : E. camelus E. ... Tetradon
137	-ll	2384	Navicula serians : N. rhomboides Eunotia Tetradon Hemantidium blank
137	Ben Lomond	2346	Navicula rhomboides : N. crassinervis N. serians : Pinnularia polygonca
137	-ll	2348	Navicula rhomboides N. serians N. crassinervis : Pinnularia polygonca Cymbella scotica
137	-ll	793	Cymbella helvetica var Pinnularia hemiptera : P. undulata W.G. P. var ( ? ) undulat.
137	-ll	3195	Pinnularia undulata : P. hemiptera Eunotia bidentula Navicula rhomboides

cont 64



TRAY 17 *middle*

137	Ben Lomond	E 96	Pinnularia undulata W.G. 2nd var. P. hemiptera P. interrupta Eunotia bidentula Navicula rhomboides: N. bacillum
138	-- (8.9.54)	2160	Navicula interrupta N. rhomboides var.
138	-- (eastside)	2361	Navicula rhomboides: N. crassinervia
138	--	2021	N. crassinerva. N. rhomboides
138	--	E 97	N. rhomboides. N. crassinerva
139	Cumbræ	1107	Epithemia granulata: E. ocellata E. gibba Thasrogloia smithii Stauroneis punctata Cyclotella operculata
140	Fellend Lincs	E 98	Eunotia bidentula Tabellaria flocculosa
<del>140</del>	<del>--</del> <i>BR</i>	<del>4262</del>	Navicula crassinerva
140	--	4262	Tabellaria flocculosa Navicula crassinerva
140	--	2020	Navicula crassinerva Tabellaria flocculosa Eunotia camelus
140	--	1193	Eunotia bidentula Tabellaria flocculosa Navicula crassinerva
141	Cumbræ	E 99	Thasrogloia lanceolata Epithemia musculus Achnanthes brevipes
141	--	1755	Thasrogloia danesii Thasrogloia lanceolata (conjugating) Epithemia musculus

cont. 65

## TRAY 17 Bottom

141	Cumbræ	1769	Mastogloia lanceolata
141	-L	1125	Epithemia constricta: E. musculus Epithemia musculus: E. constricta followed by details
141	-L	1090	Mastogloia lanceolata Epithemia constricta (& details) Mastogloia lanceolata (& details)
141	-L	1092	See slide of E. musculus Epithemia constricta: E. musculus Mastogloia lanceolata
142	Barking Essex	3271	Pleurosigma elongatum P. strigilis
143	Ulverstone	121	Amphipectra pellucida
144	Premnay (1854)	E100	Pinnularia alpina, dactylus? (sic)
144	-L	2936	Pinnularia alpina dissected out
144	-L	2967	Pinnularia dactylus alpina
144	-L	2935	Pinnularia alpina Eunotia tetraodon
144	-L	1241	<del>Eunotia tetraodon</del> bPR Eunotia tetraodon Pinnularia ?
144	Premnay peat	2937	Pinnularia alpina var
<u>TRAY 18 TOP</u>			
144	Premnay	1437	Gomphonema capitatum Eunotia tetraodon Pinnularia alpina: P. hemiptera
144	-L	E101	Eunotia tetraodon
145	Loch Leven	875	Cymbella ventricosa Cocconeis cistula; C. cymbiforme
146	-L	574	Cocconeis cistula; Cymbella ventricosa Diatoma vulgare Cocconeis pediculus

Cont. 66

TAY 18 TOP Cont

2.6.1999

146	Loch Leven	1021	Diatoma vulgare Pocconema cistula Cocconeis pediculus Cymbella ventricosa
146	-L	4216	Synedra vaucheriae
146	-L	710	Diatoma vulgare Pocconema cistula
146	-L-	4217	Synedra vaucheriae S. ulna Diatoma vulgare
146	-L	320	Cocconema cistula Cocconeis pediculus
146	-L	2207	Cymbella ventricosa
146	-L-	E102	Synedra ulna S. radians S. fasciculata Diatoma vulgare Cocconema cistula Cymbella ventricosa
147	-L	4210	Synedra vaucheriae Cocconeis pediculus Diatoma vulgare Cymbella ventricosa
147	-L	490	Cocconeis pediculus Pocconema cistula Cymbella ventricosa Diatoma vulgare
147	-L	4517	Blank
147	-L	4215	Synedra vaucheriae

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TRAY 18 MIDDLE

147	Loch Leven	E 103	Synedra vaucheriae S. ulna S. longissima Diatoma vulgare Cocconeis pediculus Cocconema cistula
148	-ll-	710	Cyclotella rotula Cymbella ventricosa
148	-ll-	2209	Navicula lepida P. p. 910 (Scotland) Stauroneis dilatata
148	-ll-	2208	Cymbella sinuata P. p. 875 (Scotland) Navicula lepida -ll- Cymbella sinuata -ll-
148	-ll-	2207	Navicula lepida -ll- Stauroneis dilatata
148	-ll-	849	Cymbella sinuata -ll- Navicula lepida -ll- Stauroneis dilatata
			Small note, separate :- On [Stauris] deformis Synedra vaucheriae [thence] fine [ ? ] Cymbella sinuata of Greg
148	-ll-	3188	Pinnularia fenella W.G. V3326 Cymbella sinuata Navic blank
148	-ll-	3884	Stauroneis dilatata Cyclotella rotula Cymbella ventricosa
148	-ll-	3885	Cocconema cistula Stauroneis dilatata Navicula bacillaris W.G. Var. Cont. 68

cont 69

## TRAY 18 Middle Cont.

148	Loch Leven	E104	Navicula lepida N. bacillaris W.G Stauroneis rectangularis S. dilitata Cymbella sinuata
148	-L	4516	Blank
149	-L	876	Cymbella ventricosa
TRAY 18 Bottom			
149	Loch Leven	856	Cymbella ventricosa
149	-L	E105	Cymbella ventricosa
		1191	Eunotia bidentula Navicula rhomboides: N. crassinervia
150	Fell-end	2340	Navicula rhomboides Eunotia camelus
151	Cumbræ	E106	Amphiprora constricta Amphora hyalina Berkeleya fragilis
151	-L	3865	Striatella unipunctata Berkeleya fragilis Navicula Kennedyi Amphora hyalina Amphiprora constricta
151	-L	321	Berkeleya fragilis Amphora hyalina
151	-L	225	Amphora hyalina Berkeleya fragilis
151	-L	227	Amphora hyalina Amphiprora constricta Berkeleya fragilis
151	-L	327	Berkeleya fragilis Amphora hyalina
151	-L	328	Berkeleya fragilis: Amphora hyalina: Amphiprora constricta

1 Slide missing

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TRAY 19 TOP

152	Glenshira	2123	Navicula didyma N. forcipata Pr p 897 N. gasteroides Pr p 900 N. laevissima
152	-L	E107	Navicula crassinervia W.G. N. palpebralis: N. didyma N. angustata
152	-L Sand	4056	Synedra fulgens
152	-L	1305	Eupodiscus spersus V.1641
153	-L	3109	Navicula gasteroides N. crassinervia
153	-L	3002	Pinnularia fortis W.G P. p905
153	-L	3164	Pinnularia solaris (Navicula P.p 904) P. acutiuscula (Navicula P.p 906) P. ergadensis (Navicula P.p 907)
153	-L	2998	Pinnularia ergadensis V.3519 Navicula angulata V.1894
153	-L	4671	Blank
153	-L	E108	Synedra fulgens Navicula rhomboides: N. pusilla
153	-L	4059	Synedra fulgens: S. pulchella Navicula gasteroides Tryblionella constricta
153	-L	2339	Amphiprora vitrea Navicula rhombica Nitzschia cernoides or suriella ??

cont. 70

cont. 71

## TRAY 19 middle

## vertebra P.p 786

153	Glenshira Sand	4220	Synedra ventrosa WG = S. pulchella Tryblionella constricta
154	Dhu Loch Glenshira	1060	Doryphora boeckii Pinnularia peregrina Navicula elliptica: N. elegans
154	-  -	2390	Navicula smithii: N. elegans
156	+	2365	Pinnularia peregrina Doryphora boeckii also Pinnularia lata
154	-  -	1058	Doryphora boeckii Synedra gracilis: S. pulchella
154	-L	109 E	Synedra gracilis: S. pulchella Doryphora boeckii
155	-  -	3055	Pinnularia lata
155	-  -	3061	Pinnularia lata: P. peregrina Navicula elliptica
155	-  -	E110	Pinnularia peregrina
156	+	2944	Navicula elliptica: N. elegans
156	ELGIN	E111	Surirella elegans V3819 Gomphonema clavus V1894
156	+	2970	Stauroneis rectangularis S. gracilis Navicula firma
156	ELGIN	E112	Cymbella fuscida: S. splendens V1973
156	+	2965	Navicula firma: N. firma var [dubium] Stauroneis rectangularis
156	-  -	3950	Stauroneis rectangularis: S. anceps
156	-L	1812	S. gracilis Gomphonema clavus: G. acuminatum
156	-  -	2113	Navicula firma: N. ? Stauroneis rectangularis Cymbella blank Surirella nobilis

TRAY 19 Bottom

156	Elgin	2261	Navicula obtusa: N. dubia WG Pp902 Pinnularia dactylus: P. elginensis
		2254	Navicula obtusa: N. laevissima (V 2626) Stauroneis anceps Gomphonema subtile
156	-H-	2365	Navicula rostellum Pinnularia dactylus Stauroneis rectangularis
156	-H-	855	Cymbella turgida Navicula firma var [dubiensis] Stauroneis rectangularis Gomphonema clavus
156	-H-	3813	Surirella nobilis Navicula blank Pinnularia dactylus Gomphonema clavus
156	-H-	2944	Pinnularia biceps "capitata" crossed out P. nodosa Navicula dubia
156	-H-	2970	Pinnularia dactylus: P. nobilis P. major Navicula blank
156	-H-	2965	Surirella elegans: S. splendida V3873 Pinnularia dactylus: P. nobilis P. elginensis Surirella elegans
156	-H-	1812	Melosira distans Stauroneis legumen Pinnularia biceps

2 Slides missing

Cont 72

Cont 70



TRAY 20 Top

23.6.99

156	Elgin	2904	Orthosira spinosa Melosira distans Gomphonema subtile Stauroneis rectangularis S. anceps: S. legumen = linearis P911
156	Elgin	2943	Pinnularia biceps P. elginensis Stauroneis legumen V2511
156	Elgin	2063	Navicula dicephala = Pinnularia elgin Gr Pinnularia biceps Gr. Stauroneis undulata Gr. Gomphonema subtile Cymbella furgida, Greg Melosira distans
156	Elgin	2081	Navicula dubia: N. laevissima
156	Elgin	2080	Navicula dubia: N. laevissima Stauroneis undulata S. linearis; S. anceps var. Gomphonema subtile
156	-	1531	Gomphonema "clavus" W.G. acc p. 70 G. subtile Navicula dubia: N. ? Stauroneis undulata: S. linearis
156	-	3968	Stauroneis undulata: S. anceps var. S. gracilis Navicula laevissima: N. rostellum Gomphonema subtile Cymbella ! Pinnularia elginensis
156	-	3966	Stauroneis undulata: S. anceps var. S. gracilis Cymbella furgida: C. cuspidata: C. amphicephala fr. p 876 Surirella elegans V3819

156 3966 cont 156	Tray 20 Top. cont Elgin -  -	3966 cont 2997	21. 7. 99 Gomphonema subtile "See slides of Navicula laevissima Cymbella furgida Pinnularia elginensis Gry Pr. 902 = Navicula dicephala Sm Pinnularia biceps Greg Stauroneis undulata V 3735 Inelosira distans: Navicula Cymbella furgida C. cuspidata: C. amphicephala Stauroneis undulata: S. linearis: Navicula rostellum: N. laevissima N. firma: N. dubia P902 Surirella elegans.
156	-  -	854	Surirella elegans: S. splendida Pinnularia nobilis: P. dacrylis P. divergens: Stauroneis anceps var. S. gracilis; S. linearis:
156	Elgin	3772	Surirella elegans (holly) Navicula dubia P902 N. laevissima
156	-  -	3776	
<hr/>			
156	Tray 20 Middle Elgin	2364	Navicula rostellum: N. laevissima: Stauroneis linearis: S. gracilis:
156	-  -	3969	Stauroneis ventricosa Pr. 912 Navicula laevissima: N. inflata: Surirella elegans: Gomphonema subtile
156	-  -	3962	Stauroneis undulata: Navicula firma: N. dubia: N. laevissima: N. inflata: Gomphonema subtile Surirella elegans

TRAY 20 Middle		cont.		
156	Elgön	E112	Gomphonema subtile Navicula dubra. N. laevissima	
156	-	E113	Navicula rostellum: N. firma: N. dubra: N. laevissima:	
156	-	E114	Stauroneis linearis Ky S. (anceps) var. S. anceps: S. undulata: S. linearis S.m. Gomphonema subtile Cymbella turgida: C. cuspidata:	
157	Elchies	E115	Surirella tenera: S. nobilis: S. splendida: S. biseriata:	
157	-	3117	Pinularia nodosa: P. divergens: Surirella n.sp.	
157	-	3861	Surirella tenera: S. nobilis: S. splendida: S. biseriata:	
157		1811	Melosira distans: Navicula rhynchocephala: Pinularia n.sp.	
158	Findhorn	3929	Stauroneis ovalis	V3715
			Navicula incurva	V2600
158	-	3930	Stauroneis ovalis W.G.	
TRAY 20 Bottom				
158	Findhorn	1983	Navicula [bacillaris] N. incurva WG Pr. 893 Stauroneis ovalis	
158	-	1900	Meridion constrictum	
158	-	3926	Stauroneis ovalis: S. anceps: Navicula incurva	
		3919	Stauroneis linearis: S. anceps var. S. ovalis:	
			Navicula incurva	
158	-	3928	Stauroneis ovalis: S. linearis S. anceps var.: S. anceps:	

Tray 20 Bottom cont.			
158	Findhorn	3928	cont
158	-L	2157	Navicula incurva Navicula incurva : N. bacillum : Stauroneis ovalis :
158	-L	3006	Pinnularia gibba Stauroneis ovalis : S. anceps : Navicula incurva
			Cymbella amphicephala <b>P. 876</b>
158	-L	3866	Stauroneis anceps : S. ovalis W.G. Navicula incurva
			<i>note on slide</i>
158	Findhorn	4916	Stauroneis ovalis W.G. : S. anceps Navicula incurva
158	River Findhorn	4117	Navicula incurva Stauroneis ovalis W.G.
			<b>2 Slides missing</b>
Tray 21 Top			
159	Ben Nevis	2356	4.8.1999 Navicula rhomboides Epirotinaisa <b>P. 763</b> : E. triodon
159	-L	2848	Orthosira dickieii Eunotia diadema : E. bidentula : E. triodon Himantidium denticulatum <b>P. 766</b> Pinnularia lata : P. alpina
			<i>Small note:</i> O. dickieii and Suradiadema even out deep(?) in this slide = 2u' ? they stray specimen (C.P.R. reading)
159	-L	1614	Himantidium denticulatum? (striae?) H. gracilis Eunotia triodon : E. bidentula : Pinnularia lata : P. alpina :
159	-L	1251	Eunotia triodon : E. bidentula : Himantidium denticulatum : H. gracilis : Pinnularia lata : P. alpina :
			Cont on 76

Cont from 75 (Top) Slide N° 21

159	Ben Nevis	E118	Pinnularia lata: P. alpina: Eunotia bidentata: E. friodon: Humantidium gracilis H. denticulatum
160	Oban	3189	Pinnularia fenella P. 904 (navicula) Cocconeis pediculus Odontidium mutabile
160	-	2802	Odontidium mutabile Cocconeis pediculus Pinn blank
160	-	E119	Cocconeis pediculus Pinnularia fenella Odontidium mutabile
161	Talworth Lake, Glos	4464	Blank
162	R. Kennet nr. Hungerford	4027	Synedra capitata Pinn (blank) Odontidium tabellaria
162	- TRAY 21	2810	Odontidium tabellaria O. mutabile Synedra capitata Pinn (blank)

One Slide missing

TRAY 21 middle

162	R. Kennet nr. Hungerford	2185	Navicula laevissima: N. tumida: Pinnularia sphaerophora P. 898
162	-	2186	Navicula laevissima Pinnularia sphaerophora
162	-	3222	Pinnularia Navicula sphaerophora: N. obtusa: Odontidium tabellaria
162	-	E120	Navicula laevissima var N. laevissima N. sphaerophora

Cont. on 77

## TRAY 21 MIDDLE cont. from 76

163	R. Kenner near Hungerford	2913	Pinnularia acuta P. oblonga	
164	Glenshira Sands	420	Campylodiscus parvulus Pinnularia lata Nav. n.sp. (C. 1)	
164	-L-	2195	Navicula laevissima N. gastroides	V2556
164	-L-	2280	Navicula pandura cracked Campylodiscus blank)	
167	Campyrea Pear	amended (before)	Eupodiscus ralfsii	
165	-L-	2151	Navicula humerosa [formosa]	
165	-L-	3746	Sutirella constricta	
167	-L-	2130	Navicula palpebralis	
-L-	-L-	4205	Syneora vertebra Syneora undulata	V3965
One Slide missing				

## TRAY 21 Bottom

165	Glenshira Sands	421	Campylodiscus parvulus (simulans W.G.)	
165	-L-	2338	Navicula rhombica Amph n.sp.	V2768
165	-L-	1944	Navicula angulosa [didyma]	V2410
166	-L-	E121	Amphora angulata W.G. Tryblionella soleiformis Navicula palpebralis	V190
166	-L-	4382	Tryblionella soleiformis Amph(ora) angulata	
166	-L-	4383	Tryblionella soleiformis (constrict W.G.) Navicula gastroides	
166	-L-	208	Amphora angulata W.G. Navicula palpebralis N. rhombica	

Cont. on 78

TRAY 21 Bottom cont.			
166	Glen Shira	2666	Nitzschia socialis W.G. Tryblionella constricta
166	-ll-	2999	Pinnularia ergadensis
166	-ll-	1942	Navicula angulata Synedra pulchella
Two Slides missing			
TRAY 22 Top 11.8.1999			
166	Glen Shira sand	1943	Navicula angulata : N. punctulata : N. rhomboides :
167	Cantyre Peat	E122	Stauroneis dilatata : S. acuta :
167	-ll-	3892	Stauroneis dilatata : Epithemia hyndmanii
167	-ll-	4450	HEAVY PORTIONS sic
167	-ll-	2136	Navicula gibberula
170	COARSE PARTS	590	Gomphonema [cost] <sup>1) cristatum 3) rostratum</sup> <u>3) constrictum</u>
			Epith(emia - blank)
167	Cantyre Peat	3886	Stauroneis dilatata Pinnularia nodosa
170	-ll-	E122	Ormosira spinosa
167	-ll-	3690	Stauroneis acuta : Epith(emia - blank)
167	-ll- TRAY	2131	Navicula gibberula
197 is written	low level	850	Epithemia hyndmanii
168	Cantyre Peat: Light portions	2135	Navicula gibberula Pinnularia nodosa
168	-ll-	E123	Blank
168	-ll-	4458	Blank
169	Cumbræ	426	Campylodiscus ralfsii C. parvulus Coscinodiscus radiatus C. eccentricus
TRAY 22 middle on page 79			

Cont on 80

TRAY 22 *middle*

169	Cumbræ	613	Coscinodiscus minor? var. minor ( <i>footnote</i> ) <i>in pencil</i> - T = <i>C. linearis</i> . See P. 830
169	-	622	Coscinodiscus minor var.
169	-	623	Coscinodiscus minor ( <i>Ortho(sira) angulata</i> Gr ✓ V3172)
169	-	E124	Coscinodiscus minor Kur
170	Cumbræ	3637	Schizonema smithii Coscinodiscus minor
170	-	630	Coscinodiscus minor Schizonema smithii
170	-	3629	Schizonema smithii Coscinodiscus minor
170	-	617	Coscinodiscus minor var. ( <i>footnote</i> ) Schizonema smithii
170	-	626	Coscinodiscus minor var minor Schizonema smithii
170	-	3636	Schizonema smithii Coscin. <i>blank</i>
170	-	E125	Schizonema smithii Coscinoides minor
171	Loch Leven	E126	<i>Cymbella sinuata</i> W.G. P. 875

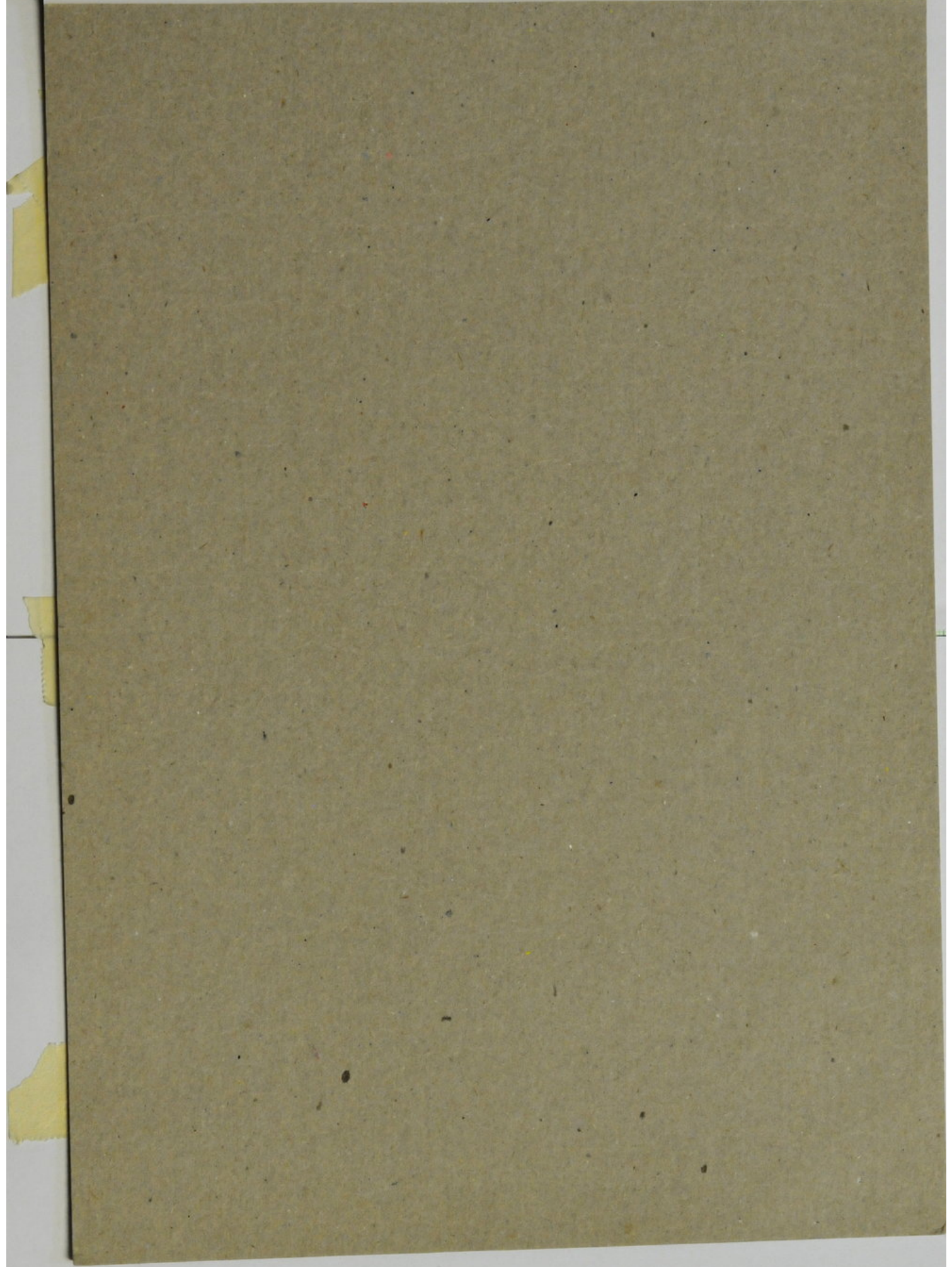
TRAY 22 *Bottom*

171	Fourth of Loch Leven	850	<i>Cymbella sinuata</i> W.G. <i>footnote</i> <i>C. ventricosa</i>
172	Loch Leven deposit	728	<i>Cymatopleura hibernica</i>
172	Leven deposit	2285	<i>Navicula parula</i> <i>Pinnularia nobilis</i> <i>Cymatopleura elliptica</i>
172	-	3753	<i>Suriella craticula</i> : <i>Cyclotella rotula</i> : <i>Cymatopleura elliptica</i>
172	-	1113	<i>Epithemia hyndmannii</i>
172	- greatest density	4463	<i>Blank</i>

Cont. on 80



	<u>TRAY 27</u>	<u>Bottom</u>	<u>Cont.</u>	
172	Loch Leven deposit	680	Cyclotella minutula	✓ 1118
			Cyclotella rotula	
173	-L	729	Cymatopleura hibernica	
173	-L	2284	Navicula patula	
173	-L	3754	Suritella craticula	
			Cymatopleura elliptica	
			Cyclotella rotula	
173	-L	3691	Stauroneis acuta	
			Cyclotella rotula	
			Cymatopleura elliptica	
173	-L	4590	Blank	
	greatest density			



OMITTED 1<sup>st</sup> TIME C.P.R. 4.2.04

- 7 Dorsetshire E4
- Navicula producta
- N. amphibaena
- Stauroneis linearis
- Cymbella amphicephala

P. 876

11

12

TRAY 1 Middle

7 (cont.)	Dorsetsh.	3936	Stauroneis gracilis S. anceps S. linearis
7	Dorsetsh	1984	Navicula bacillaris W.G. (? Greg) N. tumida N. pusilla Staur(oneis) phoenic( S. gracilis S. linearis
7	Dorsetsh.	1993	Navicula binodes N. inflata N. producta
7	Dorsetshire	3779	Surirella elegans Nav(icula) affinis N. rhynchoceph(ala) N. firma
7	Dorsetshire	2418	Navicula tumida N. inflata N. dicephala N. producta
7	Dorsetshire	1919	N. affinis

2<sup>nd</sup> Time (18.2.2004)

59	Ulverston	2879	Orthosira arenaria Melosira varians Odontidium mutabile
59	—	490	Cocconeis placentula Odontidium mutabile

59  
30

TRAY 7 TOP cont.

54	Hanson, Lancaster	1867	Melosira varians
55	Glenarm N.I.	1731	Isthmia nervosa
56	Cumrae	42E	Berkeleya fragilis
<u>TRAY 7 Middle</u>			
56	Cumrae	324	Berkeleya fragilis
58	Glasgow Bor. Gard	2579	Nitzschia linearis
58	near —	3371	Nitzschia linearis
59	Ulverstone	895	Denticula inflata Odontidium mutabile Amphora minutissima
59	—	243	Amphora minutissima Odontidium mutabile Denticula inflata
59	Ulverstone	2879	Obliterated } see reverse of P. 29
59	Ulverstone	490	
59	Ulverstone	E43	Cyclotella minutula not in indexes
59	—	893	Denticula inflata "Synedra debilis" V3909 Meridion circulare
59	—	4929	Synedra