Catalogue
of
Microscopical Slides
of the
Bailey Collection.

3 To go with the "Microscopical Collection"

some of the choicest treasures of my collection here, here indicated

Record of position of objects on slides mostly from Atlantic Soundings.

by Prof. Bailey

Slide A Catalogue No. 567

147 Fathoms Off Key Biscayne

No 1	62/72	Podocyrtis bulbosus. B.
2	64 1/4 / 73 1/2	Campylodiscus vagans B.
3	52/74 1/2	Halicalyptra polygonalis B.
4	44/73 7/8	Diploneis
5	64/72 3/4	Campylodiscus vagans B.
6	59 7/8 / 74 7/8	Pinnularia musica B.
7	64 1/2 / 70	Amphipentas
8	39 1/2 / 74 1/2	Lithopera schegera B.
9	49/72 7/8	Pinnularia ?
10	62 7/8 / 69	Halicalyptra Petasus B. slightly broken
11	47 / 73 1/2	Aulisca cribrosus B.
12	61 3/4 / 64 1/4	Campylodiscus vagans
13	59 / 70 2/3	Eucyrtidium
14	52/82 1/4	Pinnularia biforora B.
15	61 1/8 / 29	Cornutella clathrata B. profunda Ehr.
16	48 1/3 / 89 1/4	Eucyrtidium
17	40 / 65 2/3	Halicalyptra obtusa B. See F" 46 7/8 / 81 for top view of same
18	46 7/8 / 73+	Chaetoceros falcatum B. seen obliquely

Slide B. No. 5/8

147 Fathoms Off Key Biscayne

No 1	51/73½	Porpeia quadriceps B.
2	49½/73½	Euodia gibba B.
3	38/84½	Halicalyptra? dentata B.
4	58⅛/71	curious frame work See 8'
5	60½/77½	Haliarya crosa B.
6	58½/89	" spinosa B.

Inesing
51

C

147 Fathoms Off Key Biscayne

No	1	53½ / 78⅞	Halicalyptra Petasus B.	top view margin broken
	2	✓ 54 / 78¾	Ceratospyris parva B.	
	3	41⅞ / 82–	Campylodiscus vagans B.	
	4	57 / 69	Bacteriastrum	
	5	39¼ / 68¾	Surirella lata? Smith variety not contracted	
	6	✓ 45 / 73¼	Amphipentas flexuosus B.	quadrangular variety
	7	49– / 77½	Amphora	in state of fission
	8	46½ / 75–	Denticella lineata B.	
	9	55 / 66¼		
	10	40¾ / 67	Chaetoceros falcatum B.	
	11	43½ / 66¾	{Orthoschisma spinosum B {Amphitetras cuspidata B.	
	12	45– / 67¾	Diploneis	oblique view showing ridge in the middle
	13	36¼ / 32¾	Eucyrtidium prolongatum B	
	14	✓ 40¼ / 76¼	Zealiarthrum amplum B.	good

Slide D No. 570

Off Key Biscayne 147 Fathoms

No 1 √ 36½ / 65¼ Amphipentas flexuosus B.

2 51½ / 28– Hyalodiscus radiatus B = Craspedodiscus? radiatus Ehr

3 47½ / 70½ Surirella pustulosa? See Mic Journ. Vol 3 pl IV

4 55¼ / 73⅛ Amphipentas? ornatum, 5 angled variety of Amphitetras ornatum of Shadbolt See Mic. Journ. Vol 2 p. 13

5 41 / 71¼ Cornutella clathrata B. profunda.

Slide E. small slide No. 571

Off Key Biscayne 147 Fathoms

1 ✓ 49½ / 74¼ Haliarthrum amplum B.

2 45¼ / 79⅛ Grammatophora serpentina? Ehr

3 52½ / 75½+ Placolithis radiatus Ehr. See Mikrogeologie Taf. 34. X fig 5 Off head of Bahia

4 55¾ / 30¾ Pinnularia fracerta? Ehr.

Slide F No. 572

Off Key Biscayne 147 Fathoms

No 1	52¾ / 67	Coscinodiscus	
2	62¼ / 37¾	Navicula! cincinna B.	
3	63 / 49¼	" " "	"
4	60¼ / 26	Triceratium	
5	55½ / 64½	Nitschia decussata B	
6	51¾ / 21	Triceratium Parma B	oblique view, showing side
7	49¾ / 20½	Asterolampra	7 rays, very faint, near point of a large spicule and E. of Triceratium Favus.
8	48¼ / 78⅞	Podpeia quadriceps B.	[2 S]
9	48 / 72	Pinnularia musica B	in angle between two spicules
10	40¾ / 75¼	Podpeia quadriceps B.	2 pustules
11	39½ / 60¾	Podocystis Aëgles Ehr.	
12	38¾ / 74¾	Halionna circumlucens B.	
13	37¾ / 19⅞	Navicula Scutula B.	
14.	46¾ / 30	~~Pinnatolum~~ ~~Saturni~~	Spongodiscus Saturni B

Slide G. No. 573

Off Key Biscayne 147 Fathoms

1/0 1 $\frac{57}{69}$ (a), $\frac{64\frac{1}{4}}{71\frac{1}{4}}$ (b), $\frac{61\frac{1}{8}}{65\frac{3}{4}}$ (c) Podocyrtis Ægles Ehr.

2 $\frac{58\frac{1}{2}}{72\frac{1}{4}+}$ Cornutella Fiscella B. top view

3. $\frac{60}{75\frac{2}{3}}$ Eucyrtidium compressum? B, var.

4. $\frac{64\frac{1}{4}}{71\frac{1}{4}}$ Podocyrtis Ægles Ehr. showing basal teeth well

5. $\frac{68\frac{1}{4}}{66\frac{1}{8}}$ Amphispentas ornatus?

6. $\frac{49}{74\frac{2}{3}}$ Haliarthrum complexum B.

7 $\frac{47\frac{7}{8}}{79\frac{3}{4}}$ Cornutella clathrata β profunda Ehr.

8. $\frac{44\frac{3}{4}}{69\frac{2}{3}}$ Eucyrtidium compressum B.

Slide H. No. 574

147 Fathoms off Key Biscayne

No 1	61 3/4 / 87 1/4	Pinnularia? decora B
2	60 1/2 / 67 7/8	Nitzchia decussata B.
3	60 / 86	Pinnularia musica B.
4	44 1/8 / 82 1/4	Diploneis
5	43 1/4 / 76	Hyalodiscus ~~multi~~ lineatis B (made with lines)
6	40 1/2 / 71 1/4	Pinnularia praelexta? Ehr
7	39 / 70 3/4	
8	36 3/4 / 80	

Slide I. No. 575

Off Key Biscayne. 147 Fathoms

No 1	63¾ / 82½	Halicalyptra Petasus B.	top view
2	63¼ / 68½	Podocyrtis decurrens B.	
3	44½ / 82	Climacospaenia elongata B	
4	50¾ / 70	Navicula? carinata B	
5			
6	40⅛ / 80⅔	Amphora	
7	62¼ / 21	Haliomma valida B	broken so as to show nucleus.
8	62¼ / 30⅔	Haliomma inaequalis B	with large unequal meshes.

Slide J No. 576
Off Key Biscayne 147 Fathoms

No 1	62/27	Pinnularia decora B.	
2	✓ 62⁻/26	Eucyrtidium simplex B	
3	58/29	Pinnularia	
4	54⅞/76½	Coscinodiscus Parma B.	
5	56⁻/82¼	Amphitetras cuspidata B.	
6	55⁻/23⅞	Pinnularia praetexta ? Ehr	
7	54⅞/83½	Placolithus radiatus Ehr.	
8	58½/27⁻	~~Halibotrys~~ Halibotrys loculosus B	tetrahedron
9	51⁺/84⁻	Pinnularia musica B. top view	
10	50⁺/82⁻	Podocyrtis Aegles Ehr	
11	47¾/77¾	" " "	
12	45½/66⁻	Coscinodiscus Parma B.	fine one
13	45¼/81¼	Triceratium setigerum B	top view, broken
14	43½/62⅛	Pinnularia musica B	
15	42¼/80½	Triceratium setigerum B.	top view
16	46⅞/75	Haliarthrum complexum B	
17	✓ 46⁻/67⅛	Haliarthrium complexum B.	

Slide R No. 577

Off Key Biscayne 147 Fathoms.

No 1	59 / 23¼	Campylodiscus vagans B.	
2	49⅞ / 22½	Triceratium setigerum B.	top view
3	47¼ / 29¼	" "	side view
4	40¾ / 66	Triceratium : Parma B	with convex sides
5	48¾ / 74⅞	Campylodiscus vagans : B	two specimens small ones
6	65 / 66¼	Podocyrtis Bevymani B.	
7	58½ / 61	Campylodiscus vagans B.	
8	65 / 68	Pterocodon stolatum B.	
9	59 / 65	Histiastrum ? quadriceps B.	
10	42½ / 63	Spongodiscus biannulatus B	
11	34¾ / 73	Podocyrtis bulbosus B.	
12	42¾ / 24½	Podocyrtis Azyles Ehr	
13	50 / 24	" "	
14	42⅞ / 26⅞	Pinnularia musica B.	large one
15	47 / 29⅔	Spongodiscus radiatus B.	
16	43¼ / 22¼	Histiastrum triceps B.	
17	43 / 23¼	Bacteriastrum	
18	33 / 23	Histiastrum spinifer. B	
19	32¼ / 76⅔	Stylodictya polygonalis : B	with long spines, good

Slide L. No. 578

Off Key Biscayne 147 Fathoms.

No 1	68½ / 70⁻	Porpeia quadriceps B.	
2	67 / 86¾	Pinnularia musica B	small one
3	64¼ / 68¼	Porpeia quadriceps B.	
4	"	~~Pinnularia~~ Navicula! Cooperi B.	= Pinnularia Cooperi B.
5	64⅛ / 73½	Pinnularia praetexta? Ehr	
6	63¼ / 28⅓	Coscinodiscus Parma B	
7	51¾ / 77½	Cornutella clathrata B. profunda Ehr	
8	59 / 29½	Amphipentas flexuosus B	
9	60½ / 27⅞	Campylodiscus vagans B	
10	58⅛ / 76	Triceratium Favus Ehr	very large one
11	65¾ / 84⅛ , 54⅞ / 22⁺	Cornutella clathrata B. profunda Ehr	
12	46⅞ / 84⅛	Podocyrtis Aegles Ehr.	
13	58¼ / 86¼	Histiastrum triceps	fine one
14	43 / 26½⁺	Podocyrtis decurrens B.	
15	43⁻ / 68⁻	Coscinodiscus Parma B	broken, showing interior
16	42½ / 84⅛	Podocyrtis Aegles Ehr	
17	41¼ / 66⅞	Navicula diaphana B.	
18	41¾ / 73¼	Triceratium? Parma B	
19	37¼ / 80¾	Dictyophimus? fragilis B	
20	37 / 85	Encyrtidium amphiatum B.	See U'
21	36 / 69	Pinnularia decora B.	in same field of view
22	36 / 69	Eucodia gibba B.	in same field of view
23	36 / 69	Hyalodiscus	in same field of view
24	29½ / 80⅔		
25	28¼ / 75⅓	Cornutella clathrata B. profunda Ehr.	
26	58¼ / 67¼	Halicartorum complexum B	Indeter

Slide M No. 579

Off Key Biscayne 147 Fathoms

1	38¾ / 28⅞	Triceratium? Parma B.
2	47¼ / 70	Campylodiscus vagans B.
3	66 / 28	" "
4	53¼ / 28¼	Cornuletta clathrata B. profunda
5	52½ / 26¼	Pinnularia musica B. top view "section"
6	49 / 65¼	Eupodiscus radiatus B.
7	47½ / 46¾	Pinnularia ?
8	48½ / 26	" praetexta Ehr
9	42¼ / 28⅓	Porpeia quadriceps B.
10	41½ / 27¾	Cornuletta Fiscella B
11	35½ / 27	~~Pinnularia~~ Navicula Cusperi B.
12	49+ / 31¼	Podosyrtis bulbosus B with larger beak than usual
13	55¾ / 65¾	Amphitetras Crux
14	40¾ / 24¾+	Haliomma opposita B.
15	48¼ / 24	Spicule
16	65 / 65⅛	Lithomellisa? calva
17	40 / 24¼	" " B
18	43 / 63⅛	Amphora very elegantly good

Slide N. No. 580

Depth not marked, off Key Biscayne

No 1	57¼ / 74 p	Diploneis pulchra B.	good one
2	42 / 80	Halimma spirita B.	
3	68 p / 31¼	Stylodictya polygonalis B.	
4	66 / 31	Haliarthrum amplum B.	broken so as to show the nucleus
5	64¾ / 64 p	Orthorhopalum spongiosum B.	
6	63 / 30¼	~~Haliscyphra~~ Podocyrtis campanulata B.	showing base
7	56¼ / 82 p	Campylodiscus	fine oblique view
8	56 p [a] / 61¼ ; 51 p [b] / 29+	Podocyrtis Ehr.	
9	50⅛ / 66	Spongodiscus Saturni B.	
10	50 / 62 p	Carpocanium Fragum B.	
11	42⅞ / 72⅞		
12	41⅞ / 71¼	Placolites radiatus Ehr.	
13	40+ / 80+	Lithocarpium trifenestratum B.	W. of large spicule
14	38¼ / 80	Eucyrtidium impendens B.	

Slide 6. No. 581

Off Key Biscayne depth not marked

No 1	46 / 29 h	Asteromphalus	touching a Diploneis and W of
2	54 3/4 / 28 3/4 +		spindle shaped body.
3	54 1/4 / 64 1/8		curious spicule
4	49 h / 66	Ceratospyris.	
5	53 h / 64	Dictyophimus? Doridis B	
6	53 h / 67 3/4	Haliarkhum	
7	43 / 70 h	Asteromphalus	near a small

No. 582

Slide P. Off Key Biscayne depth not marked

~~dred~~ 1	33¼ / 70¾	Dictyocephalus ~~arachnosa~~ araneosa B
2	40¼ / 76	Diploneis pulchra B.
3	33¼ / 64½	
4	62¼ / 30½	Halibotrys spinosus B
5	40¼ / 85⅔	Haliarthrum complexum B.
6	58 / 25¼	Dictyopyxis depressa B

No. 583

Slide Q. off Key Biscayne, Depth not marked

No 1	55/74¼	Surirella lata ? Smith	large one
2	56/41¾	Pinnularia musica B	
3	46/27	" " "	two frustules
4	40¾/49½	Podocystis Aegles Ehr	curved one
5	58¼/84	Histiastrum concentricum B.	

Slide R. No. 584

No		Off Key Biscayne 147 fathoms.
1	64¾ / 76½	araneosa B
2	56 / 28½	Triceratium? Parma B.
3	45⅛ / 28⅛	" "
4	41 / 44	Histiastrum ~~[illegible]~~ spinifer B with traces of spines
5	33⅛ / 36⅞	Triceratium Parma B.
6	31½ / 38⅞	Eucyrtidium Tritonis B. good one Lee W.
7	47 / 71½	Pterocodon? Pholus B (dome, cupola)
8	√ 39½ 39½ / 73+	Lithomelissa? irregularis

No. 585

Slide S. 147 Fathoms, off Key Biscayne

No 1	61 3/4 / 63 1/2	Coscinodiscus ? Parma. B.	
2	62 1/4 / 37 1/4	Triceratium ? Parma B.	
3	57 3/4 / 37	Podosyrtis decurrens B.	with veil very far extended
4	50 / 28	Placolites circularis B.	
5	51+ / 67 1/2	Halicalyptra Pelasus B.	top view, broken
6	49 / 81 1/2	Nitzschia decussata B.	
7	40 1/4 / 35	Porpeia quadriceps B.	

No. 586

Slide I. Off Key Biscayne 147 Fathoms.

No 1	58½ / 81	Lychnocanium trifenestra B.	
2	55¾ / 37¼	Podocyrtis decorens B.	
3	49⅞ / 40	Eucyrtidium elongatum B.	
4	42 / 61½	Triceratium trisulcum B.	
5	36½ / 33⅞	Halimma hexagonum? Ehr	broken, showing nucleus
6	33½ / 76	Histrastrum Lambda B.	with cloud
7	45½ / 61½	Haliomma binucleata B	
8	41¼ / 67½	Spongodiscus radiatus B.	✓

45 / 61½ [illegible]

No. 587

Slide U. Off Key Biscayne, Depth not marked.

No 1	69 / 78½	Plectrospyris cancellatus B.	
2	68⅛ / 86½	Eucyrtidium? inaequale B	
3	66½ / 77½	Nitschia decussata B.	
4	62 / 66	Placolites radiatus Ehr.	with vermiform spicule close to it,
5	48¼ / 26	Perinephelium Saturnia B.	
6	42 / 78⅔	Navicula Scutella B.	
7	40¾ / 73½	Dictyospyris Olinga B.	
8	35 / 65½	Plectrospyris cancellatus B.	fine one
9	33¼ / 65½	Podocyrtis Aegles Ehr.	with good view of basal edge
10	40 / 60	Halicurya quadrifonis B	fine one.
11	47¼ / 65¾	Cenosphaera? Halomma?	broken on underside, undeterminable
12	51¼ / 67½	Halicarthrum amplum B	
13	51¼ / 78¼	" " B.	
14	51⅛ / 60⅓	Pterocodon stolatum B.	

Slide V. No. 588

Off Key Biscayne 205 Fathoms

No 1	$\frac{57\frac{1}{4}}{84\frac{3}{4}}$?	Eucyrtidium / Halimma — not found
2	$\frac{55\frac{1}{2}}{64^{+}}$	Podocyrtis Aegles Ehr
3	✓ $\frac{54\frac{1}{4}}{28}$	Ceratospyris tripes B.
4	$\frac{40^{+}}{34\frac{1}{4}}$	Eucyrtidium compressum B
5	$\frac{36}{36\frac{1}{4}}$	" "
6	$\frac{39}{45}$	Halimma Bervesi? Ehr.
7	✓ $\frac{68\frac{1}{4}}{73\frac{1}{2}}$	Diplospyris laxa B.
8	✓ "	Lithospera setigera B. S.E of last
9	$\frac{52\frac{7}{8}}{24\frac{1}{2}}$	Podocyrtis?
10	✓ $\frac{58}{74}$	Lithobotrys varians B.
11	$\frac{56\frac{1}{4}}{28\frac{1}{2}}$	Histastrum triceps B.
12	$\frac{57}{83}$	Pterocodon? Tholus

Slide W. No. 589

Off Key Biscayne 205 Fathoms

No 1	53½ / 29–	Ceratospyris parva B	
2	✓ 55¾ / 28⅓	Eucyrtidium Tritonis B.	
3	54 / 43¾	Hyalodiscus	edge view () = Discoplea umbilicata? Ehr
4	70½ / 78+	Podocyrtis Aegles Ehr.	base view
5	✓ 69⅞ / 39¼	Lychnocanium trifenestratum B	
6	"	Halisphormis oblonga B.	See F. 55¼ / 80¼
7	60¼ / 24	Chaetoceros falcatum B.	
8	60¼ / 23–	Podocyrtis Aegles Ehr,	a deformed specimen
9	60– / 33⅓	Coscinodiscus Parma B.	large one, broken
10	✓ 63– / 28¾	Haliarthrum amplum	oblique view, showing nuclei
11	59¾ / 40	Halicalyptra Pelasus B.	top view, broken
12	54¾ / 29½	Diplospyris praetexta B	a fragment
13	57¾ / 33⅞	Eucyrtidium elongatum B	
14	54¼ / 69½	Histiastrum Lambda B.	with spongy tissue, well shown
15	51½ / 78¾	Cornutella Fiscella B.	internal view
16	51 / 25⅞	Surirella lata, Smith	
17	49¼ / 39	Amphora	
18	✓ 49 / 20¾	Halicalyptra Pelasus	oblique view
19	42½ / 25¾	Podocyrtis decurrens? B	
20	✓ 48¼ / 29+	Eucyrtidium expansum B.	
21	42¼ / 22⅓	Podocyrtis Aegles Ehr.	good one
22	40½ / 48¼	Triceratium schizerum B.	

Slide X. No. 590

Off Key Biscayne. 147 Fathoms.

No 1	58¼ / 70¾	Chaetoceros falcatum B.	
2	65 / 75¾	Porpeia quadriceps, B.	E q. long spicule and near a Dictyocha
3	64½ / 75⅞	Haliarthrum amplum B.	centre large
4	65 / 80	" complexum B	
5	39¾ / 66	Histiastrum biceps, var	pod one
6	41⅛ / 64¾	Eucyrtidium altum B.	large meshes
7	49¼ / 71	" compressum B.	small "
8	41⅛ / 78½	Cornutella obtusa B	~~spinal~~
9	56¾ / 85	Eucyrtidium fusillum B	
10	40¼ / 63	Halionma Cydippes B.	with long spines

Slide G. No. 591

Off Key Biscayne 205 Fathoms.

No 1	60/62½	Chaetoceros falcatum B.	good one
2	61/70¾	Halicalyptra Pelasus B.	broken, but shows details well
3	63/20⅞	Podosphenia decurrens? B	inside view of a trigonotrous Polycistin
4	45¼/21¾	Cerscodon? stellatum?	top view

Slide Z. No. 592

Off Key Biscayne 205 Fathoms.

No 1	69¾ / 71	Halicalyptra Pelasus B.	fine one
2	50 / 75¾	" "	"
3	70 / 24¼	Eucyrtidium compressum B.	
4	69¼ / 47¾	Chaetoceros falcatum B.	
5	"	Cornutella clathrata β profunda Ehr.	
6	67¼ / 33¼	Amphilectras obtusa B	
7	66 / 84⅞	Porpeia quadriceps B.	
8	56¾ / 80	Chaetoceros falcatum B.	
9	53⅞ / 69¼	" "	
10	53¾ / 62	Lychnocanium bifenestratum B.	
11	52¼ / 36¾	Porpeia quadriceps B.	
12	45½ / 38¾	Swirella lata? Sm.	
13	47½ / 77¼	Eucyrtidium ampliatum B. var	like U' 39 / 86¾ but the head more spiny
14	38 / 67	Diplospyris laxa B.	showing the fine net work
15	52 / 78	Eucyrtidium duplex? B	a fragment. See J' 68½ / 21½
16	43 / 26¾	Halicalyptra hexagonalis B.	
17	54¼ / 86	Podocyrtis bulbosus B.	
18	"	Diploneis	N. E of above
19	53 / 61¾	Nitschia alternata B.	new?
20	53¾ / 64⅛, 45 / 26⅞, 42¾ / 84¾	Cornutella clathrata, β profunda,	
21	44 / 62½	Diploneis	large
22	62¾ / 41¾	Eucyrtidium auritum? Ehr	
23	"	" elongatum B.	

Slide 'A' No. 593

Off Key Biscayne 205 Fathoms

No 1	63 / 83½	Carpocanium Fragum B.	
2	52½ / 67½	Podocyrtis bulbosus B.	
3	39¼ / 75⅓	Halicalyptra? fragilis B.	
4	45¼ / 70⅞	Cornutella Fiscella? B.	large fragment.
5	51 / 72		
6	46¾ / 84¼	Lithobotrys. prominens B. var	
7	59 / 64¾	Dictyospyris tenuis B.	
8	38¾ / 66⅞	" ? 2 fragments.	heads of Polycistins?
9	66½ / 80	Halimma circumlucens? B.	
10	67 / 27⅔	Histiastrum triceps B.	
11	42⅞ / 69½	Dictyospyris? depressa B.	See F 65 / 83⅛
12	38 / 63⅔	Denticella? tridens Ehr	deformed
13	46¼ / 67½	Dictyocephala uranosa B	
14	43 / 69	" "	N.W of the Dictyospyris
15	46½ / 77¾	Carpocanium? Fragum B	See A 63 / 83½
16	46¾ / 68¼	Eucyrtidium ~~compressum~~ B	
17	46½ / 67	Lithispera? pseudopiea? G	
20	50¾ / 86¼	Dictyophimus? ~~fr~~ fragilis B.	

Slide B' No. 594

Off Key Biscayne 205 Fathoms

No. 1	$\frac{61^{+}}{71^{-}}$	Bacteriastrum	
2	$\frac{50\,3/4}{75\,1/2}$	Amphora	
3	$\frac{44}{74\,1/4}$	Cinnularia? musica	has rectangular frustules
4	$\frac{46\,1/2}{75\,1/4}$	Amphora	S.E. of a small Surirella
5	$\frac{60}{34\,1/2}$	Hahartrum complexum B	good
6	$\frac{54\,1/2}{63\,1/3}$	Carpocanium Fragum B.	

Slide C' No. 595

Off Key Biscayne 205 Fathoms

No 1	54¼ / 20¼	Amphora	
2	49¼ / 80½	Eupodiscus radiatus B	
3	"	Amphitetras cuspidata B	S.E of above
4	50½ / 76⅛	Campylodiscus vagans B	
5	51 / 65½	Pinnularia musica B.	
6	40 / 65¼	Eucyrtidium allum? B	
7	40+ / 66⅛	Actinoptychus	8 rayed
8	42 / 60¼	Lithobotrys obscura B	showing termination
9	49 / 82	✓ Halarthrum complexum B	nucleus and rays
10	42½ / 63⅔	Lithobotrys varians B	

D' No. 59.

Off Key Biscayne 65 Fathoms

No 1	62¼ / 93	Lychnocanium? paradoxum B	
2	52 / 69	Triceratium Parma B.	
3	48½ / 73	Diploneis pulchra B.	
4	v 33 / 89¾	Porpeia quadriceps B end view	
5	v 45¾ / 31	Lychnocanium trifenestratum B.	
6	59 / 65¼	Halionma? (too imperfect to be determined)	broken, showing nucleus and rays
7	43 / 30-	Eucyrtidium Tritonis B.	
8	44⅛ / 29½	Nitzschia mesolepta B	confore with N. plana, Smith
9	"	Triceratium sexgerum B	Up new
10	51 / 25+	Hyalodiscus radiatus	
11	63¼ / 77	Histiastrum triceps B.	
12	54¾ / 25¾	Surirella lata? Smith	good one
13	v 63½ / 80+	Lithobotrys? prominens B.	

E' No. 597

Off Key Biscayne 65 Fathoms

No 1	42 1/8 / 90 3/4	Aulisicus spinosus B.	
2	√ 70 / 90 h	Podocyrtis bulbosus B.	
3	61 1/2 / 64 h	Halicalyptra Pelasus B.	oblique view, fine one
4	60 1/4 / 68 3/4	Nitschia decussata B.	
5	60 1/2 / 26 1/8	Halionma? crenata B	broken on under side, and nucleus lost?
6	60 / 71 1/4	Porpeia quadriceps B.	
7	55 / 79 h	" " "	
8	50 / 24 h	Coscinodiscus Parma B.	fine one
9	49 / 38+	Stylodictya concentrica B.	
10	46 1/4 / 63 1/8	Eucyrtidium auritum Ehr.	
11	45 1/2 / 78	Histiastrum concentricum B.	broken
12	44 1/4 / 69	Porpeia quadriceps B. end view	
13	35 1/2 / 44 1/4	Asteromphalus	a fragment, very faint 
14	32 1/2 / 25	Podocyrtis Aegles Ehr.	
15	√ 36 1/4 / 65 h	Dictyophimus Glaucia B.	
16	54 3/4 / 77+	Orthorhopalum spongiosum B.	
17	√ 39 7/8 / 80	Eucyrtidium prolongatum B.	See 6 36 1/4 / 32 1/4
18	√ 38 / 85 h+	Lithobdys obscura B	
19	√ 34 1/8 / 75 2/3	Eucyrtidium turgidulum B.	
20	53 1/2 / 81 h		serpentine spicule

Slide F' No. 598

Off Key Biscayne 65 Fathoms

No 1	64¾ / 33¼	Dictyopyxis depressa B.	edge view	See A' 42/70
2	55¼+ / 80¼	Haliphormis ? Olenza B		See W.
3	"	Surirella Calu. Smith	S.W of preceding	
4	54⅛ / 85¼	Triceratium setigerum B.	top view	
5	46 / 69⅛	Coscinodiscus Parma ? B		
6	32½ / 46	Campylodiscus vagans B.	oblique	
7	37¾ / 64½	Halicarya quadriforis B.		
8	62½ / 27¾	Podocystis Aegles Ehr	var.	
9	57⅞ / 85½	Haliarthrum complexum B		

G' No 599

Off Key Biscayne 147 Fathoms

No 1	63¾ / 70⅞	Campylodiscus vagans B.	
2	67 / 30	Podosyrtis Aegles Ehr	fine one
3	61 / 86	Eucyrtidium compressum? B	
4	58½ / 35¼	Coscinodiscus? Parma B.	
5	43¼ / 74¾	Halionna ~~Beaver~~ Nerina B (belonging to Nerina)	
6	45 / 27	Stylodictya polygonalis B	
7	"	Triceratium Parma? B	small one to right of preceding
8	"	Histiastrum biceps B	N of S. polygonalis above.
9	33½ / 75	Pinnularia bifolia B	small
10	58 / 16⅛	Haliomma quadriforis B	
11	57¼ / 35⅞	" "	good one
12	54½ / 65¼	Histiastrum quadriceps B.	
13	54⅛ / 61½	Lithobotrys? multiparvita B.	
14	58¾ / 74½	Pinnularia musica B.	
15	63¼ / 74½	Spongodiscus Saturni B.	
16	67 / 69⅞	Orthochiscalum	short one
17	65⅞ / 65	Stylodictya spiralis B	— good one See L' 50 / 19¾
18	42 / 68½	Lithopera? biceps B	
19	38⅞ / 77	Stylodictya polygonalis	with long spines
20	30¾ / 72½	Reddalphia pulchella?	very large one

H' No. 600

Off Key Biscayne depth not marked

No 1	34 / 32 1/8	Porpeia quadriceps B.	good one
2	61 1/2 / 29 1/4	Triceratium Parma B.	
3	52 1/2 / 80 1/2	Coscinodiscus Parma B.	very fine one
4	50 / 60 1/2	Dictyocha Producta B.	
5	50 1/2 / 77	Nitzschia plana? Smith	
6	51 / 44 1/2	Chaetoceros falcatum B.	
7	44 1/2 / 70 1/2	Coscinodiscus Parma B.	
8	✓ 42 1/2 / 64	Stylodictya marginata B	
9	✓ 40 3/4 / 66	Dictyocephala tridens B	Lead
10	41 / 81 3/4	Porpeia quadriceps B.	
11	38 1/4 / 61 1/2	" "	
12	33 / 73 2/3	Amphora	
13	50 / 86	Histiastrum quadriceps	
14	✓ 55 1/4 / 86 7/8	Lithobotrys ornithocephala	
15	55 1/4 / 62 7/8	Lithobotrys biceps B	
16	49 / 30	~~Kotogyas~~? Dictyophimus Glunci B.	
17	✓ 46 / 77 1/4	Halicalyptra? hexagonalis B.	
18	~~42 3/4~~ / 76 2/3	~~Dictyophimus~~ ~~Halicalyptra?~~ } ~~hexagonalis B. fragment~~ Halicalyptra Alisa B }	See A 40 / 65 2/3

J' No. 601

Off Key Biscayne – Depth not marked

No 1	64½ / 82½	Pinnularia limbata B.	
2	✓ 38 / 74½	Halicalyptra? fragilis B.	good one
3	62½ / 76¼	Halicalyptra Petasus B.	
4	44½ / 62¼	Amphipentas flexuosus B.	
5	38 / 76¾	Eucyrtidium lineatum	good one –
6	41 / 80	Eucyrtidium perlongatum B.	small
7	50½ / 71½	Carpocanium? fragum B	basal teeth broken.

J' No. 602

Off Key Biscayne depth not marked

No 1	53½ / 71¾	Chaetoceros falcatum B.	
2	64 / 76⅓	Eucyrtidium	
3	55½ / 66½	Encodiscus ~~[illegible]~~ venosus, B. (ΟΥΚΟΣ = swelling)	for top view see Q' 48¼ / 64¼
4	49½ / 64¼	Pinnularia limbata B.	
5	48 / 88+	Campylodiscus vagans B.	
6	46½ / 87⅛	Pinnularia decora B.	side view
7	39 / 85+	Lychnocanium bifenestratum B.	
8	36¼ / 23⅓	Pinnularia musica B.	
9	35¼ / 82	Pterocodon? Tholus	
10	68¼ / 84⅔	Eucyrtidium compressum? B	
11	68¼ / 21½	Eucyrtidium? duplex B	
12	66½ / 20¼	Ceratospyris parva B.	under side
13	53¾ / 23⅞	? " "	top view
14	40¼ / 77¼	Podocyrtis Ayles Ehr	
15	32¼ / 74¼	" "	

'H' No. 603

Off Key Biscayne, Depth not marked (turned brown by AA³)

No 1	64 7/8 / 25+	Amphora	
2	64 / 81+	Dictyophimus? falciferus B	
3	49 / 78	Plectosphyris cancellatus B	good one see H.
4	37 7/8 / 77 3/4	Surirella lata? Smith	" " " "
5	27 1/4 / 82 1/8	Pinnularia bicuspidata B.	small one constricted in middle
6	35 1/4 / 47	Halicalyptra Polasius B.	small one
7	41 1/2 / 63 1/4	Grammatophora arcuaria B	" " "
8	36 1/2 / 65 1/8	Eucyrtidium acuminatum? Ehr	good one
9	36 1/4 / 75+	Lithobotrys obscura B	

Lo' No. 604

Off Key Biscayne 65 Fathoms

No 1	52½ / 83¼	Diplospyris? spinifera B.	
2	53¼ / 83¾	Podocyrtis Aegles Ehr	
3	"		Branching and lobed Spongolite?
4	50 / 19¾	Flustrella spiralis? Ehr	
5	45+ / 80+	Podocyrtis Aegles Ehr.	
6	43½ / 73	Coscinodiscus Parma Ehr.	oblique view, broken
7	33 / 79¾	Perinephelium Saturni B.	
8	32½ / 31+	Podocyrtis decurrens B.	top view.

'M' No. 605

Off Key Biscayne 65 Fathoms

No 1	62½ / 24½	?	curious piece of coarse net work
2	57¼ / 25½	Stylodictya marginata B.	
3	54¼ / 83¼	Haliarthrum complexum B.	good but not complete
4	53 / 30	Halicarya quadriforis B.	
5	"	Campylodiscus vagans B.	Edge view, good. SE of preceding
6	50½ / 77¼	Amphipentas flexuosus B.	4 sided one
7	48½ / 72¼	Halimma circumlucens B.	
8	31¼ / 26	" crenata B	broken on underside and nucleus gone, See 7.

N' No. 606

Off Key Biscayne 65 Fathoms

No 1	60¼ / 90¼	Histiastrum biceps B.	good one
2	58⅞ / 74¼	Podocyrtis decurrens B.	"
3	50 / 82¾	Triceratium Parma B	"
4	47¾ / 30	Dictyopyxis depressa B.	exterior view "
5	45 / 90½	Spongodiscus? ~~Burx~~ B.	
6	43¼ / 29¾	Cornutella Fiscella? B	with large meshes
7	41⅛ / 29	Podocyrtis Aegles Ehr	
8	39½ / 30	" " "	showing both sets of basal teeth
9	28¼ / 33½	Cornutella " "	with large meshes
10	29½ / 27	Spongodiscus transversus B	

6' No. 607

65 Fathoms. Off Key Biscayne

No 1	64½ / 71½	Halicarya crosa B.	good side view
2	"	Podocyrtis Aegles Ehr	N. E of above
3	58¾ / 78⅞	Nitzschia Cistula B (a small box)	just below a Diploneis
4	47½ / 81½	Histiastrum biceps B	with cloud
5	40 / 82	Perinephelium Saturni B	
6	"	Histiastrum biceps B.	
7	"	Orthocephalum spinosum B	
8	32 / 84		large net work of Sponge?
9	48 / 34¾	Amphitetras cuspidata B.	
10	55½ / 22¼	Halicarya quadriforis B.	
11	55 / 75	Podocyrtis decurrens B.	top view good
12	55 / 74¾	Amphitetras obtusa B	small

P' No. 608

Off Key Biscayne 65 Fathoms

No 1	59/11+	Dictyocephalus araneosa B	
2	59 1/4 / 23	Halicarya trinucleata B.	
3	54 7/8 / 75 3/4	Dictyospyris oblonga B.	
4	54 3/4 / 28 1/4	Eucyrtidium compressum B.	See 2
5	48 / 40	Haliarthrum amplum B	interior view showing nucleus and cup
6	47 1/4 / 26 7/8	Halicarya erosa B	side view, good view of nucleus

Q' No 609

Off Key Biscayne 127 Fathoms

No 1	v 53½ / 60½	Diplospyris praetexta B.	good one
2	66½ / 22¾	Halicalyptra Petasus B.	Aligne
3	65 / 70½	Asteromphalus	a fragment near point of a Liemphora
4	64¼ / 26¼	Entomoneis	curious fragment, too imperfect to determine
5	55⅛ / 17½+	Halomma opposita B	
6	53¼ / 36¾	Surirella lata? Smith	
7	53¼ / 30⅛	Lychnocanium trifenestratum B.	
8	52⅛ / 79⅛	Odontella minima B	4 frustules at upper end of a Pinn. praetexta
9	50½ / 80¾	Porpeia quadriceps B.	
10	49½ / 29	Haliomma? spongiosa B	
11	48½ / 78½+	Halicarya quadriforis B.	
12	48¼ / 82	Bacteriastrum	N. W of a large Podosphenia?
13	48 / 81¼	Podosphenia Americana B	
14	48¼ / 64−	Oncodiscus venosus B.	See J' 55½ / 66½ and S' 62½ / 33½
15	46¾ / 80	Surirella Lata? Smith	elliptical variety
16	39⅛ / 64¼	" " "	constricted
17	"	Eupodiscus radiatus B	SW of above
18	37¼ / 62¾	Encyrtidium foraminosum B	
19	36¼ / 80¾	Histiastrum concentricum B.	
20	29½ / 69¼	Diploneis pulchra B.	a fragment

'R' No 610 6/11 Key Biscayne

No 1	66¼ / 25⅛		Spongolite 4 rays with knobs 
2	65 / 72–	Grammatophora incurva B.	
3	54¾ / 80¼	Diploneis pulchra? B. small one	
4	57⅞ / 74¾	Dictyopyxis depressa B.	
5	49– / 85⅔	Coscinodiscus Parma	
6	49½ / 27⅞	Diploneis pulchra?	small one
7	42¾ / 67	Eucyrtidium [illegible]	
8	31 / 80¼	Navicula carinata B	See I. 32¼ / 71¼
9	66 / 68½	Lithispera schizea B.	

S' No. 611

Off Key Biscayne, depth not marked

No 1	69 3/4 / 86 7/8	Halycaryon polyactis B.	
2	68 1/2 / 63 7/8	Pinnularia musica B	good me
3	66 1/4 / 50	Stylodictya concentrica B	See Q' 48 1/4 / 64 1/4 and J' 55 / 66 1/2
4	63 1/4 / 33 1/4	Oncodiscus venosus B.	
5	60 / 71 1/2		See B. 54 1/2 / 71 1/4
6	50 1/2 / 75 1/4	Stylodictya polygonalis? B	with flexuose bands
7	49 / 78 1/4	" marginata B.	with broad margin
8	49 7/8 / 37 1/2	Triceratium Parma B.	
9	46 1/2 / 34 1/4	Spongodiscus Crux B.	
10	32 1/4 / 66 7/8	Cornutella? obtusa B	top view, See K' 31 1/2 / 82 for side view

T 1 No. 612

Off Key Biscayne Depth not marked

No 1	58 / 36 7/8	Pinnularia bifolia B.	near a Dictyoca
2	65 / 77 1/2	Grammatophora incurva B.	
3	56 / 45 2/3	[illegible]	fragment two imperfect l-h characters
4	55 1/4 / 80 2/3	Dictyocephala arcuosa B.	fragment of head.
5	√ 54 1/2 / 29 1/2	Dictyospyris cordatus B	
6	53 1/4 / 89 1/2	Pinnularia Lintriculus B. (a little boat)	small ~~[illegible]~~ few ribbed
7	50 / 26	Porpeia quadriceps B.	oblique view
8	33 1/4 / 80 1/4	Amphispentas ornata ?	
9	"	Biddulphia fulchella ? pin	two frustules

[illegible] C.F.

U' No. 613

Off Key Biscayne, depth not marked

No 1	69 / 71¾	Eucyrtidium altum B	with large meshes	See U'
2	65½ / 69	Eucyrtidium simplex B.		See 1/2
3	56½ / 68	Histiastrum biceps B		
4	"	Eucyrtidium turgidulum B		
5	"	Placolites radiatus Ehr. broken		
6	58⅛ / 30⅓	Halimma opposita B		
7	46⅞ / 37½+	Podocyrtis Aegles Ehr		
8	41¾ / 35	Lithelitrys varians? B		
9	41½ / 31¼	Placolites radiatus Ehr.		
10	✓ 39+ / 86¾+	Eucyrtidium ampliatum B.		
11	38½ / 88¼	Halimma Berves? Ehr.		
12	34¼ / 27¾	Diplospyris cancellata B.		
13	34¾ / 82⅞	Coscinodiscus Parma B.		
14	36+ / 87⅛	Euspodiscus radiatus B.		
15	"	Eucyrtidium	fragment SE of alone	undetermined
16	✓ 32¼ / 41¾	Lithelitrys? spinifera B		
17	✓ 30½ / 87⅛	Diplospyris spinifera B		
18	30+ / 88¾+	Histiastrum biceps B.		
19	29½ / 86¼	Lithelitrys varians B		
20	28 / 21¼	Spongodiscus Crux B.		

No. 614

Off Key Biscayne — Depth Not marked

No 1	63/75¾	Halimma circumlucens B	with many marginal spines
2	60/68½	Spongodiscus lenux B	
3	59¼/70⅛	Halicarya quadriforis B.	
4	57¾/72¼	Spongodiscus Saturni B	
5	57½/74¼	Histiastrum triceps B	
6	57/76½	Amphitetras cuspidata ? B	
7	57¾/81	Eucyrtidium turgidulum B.	
8	61½/88½	Chaetoceros falcatum B.	
9	55¼/81⅓	Haliarthrum complexum B	
10	55/81¼	Stylodictya concentrica B	
11	54¼/28¾	" "	
12	~~[illegible]~~ 57/84½	Halicarya ovora side view	
13	47½/68½	Porpeia quadriceps B	near end of a large spicule
14	~~[illegible]~~ 60¼/84½	Spongodiscus radiatus B	
15	36/30¼	Pinnularia peregrina ?	
16	42¾/20¾	Lychnocanium paradoxum ,	fragment
17	52/65¼	Gyrosigma Sigma B	large sigmoid , Navicula Sigma ? Ehr
18	41/26¾	Halicalyptra ? hexagonalis ? B	
19	60/85	Halibotrys botryoides B.	

'W' No. 615

Position 17. 300 Fathoms

No 1	60½ / 62¾	Aulisceus pruinosus B.	
2	53 / 89¾	Dictyocha quadrata B	side view, with long spines, (a Ophthalmia) inclosing a cast of
3	48½ / 76½	Histiastrum triceps	
4	44¼ / 83	Halimma Bewis: The	small one with large meshes
5	40½ / 86½	Actinoptychus	10 rayed

X' No. 616

Position 17. 300 Fathoms

No 1	65 1/8 / 68 h	Eupodiscus opacus B	fairly one
2	55 1/4 / 25 1/3	Lithopera phrenologica B.	
3	50 1/2 / 25	Eucyrtidium simplex B.	good one
4	44 3/4 / 76	Histastrum bicepsis B.	well marking
5	43 1/4 / 74+	Eucodia gilla B	
6	38 1/2 / 68 h	Lithomelissa? parva B	
7	37 2/3 / 74	Tricerastium Favus Ehr	

Y' No. 617

Position 17 300 Fathoms

No 1.	57/76½	Sphyridictya polygonalis B.	
2	36/71¼	Cornulella clathrata B. profunda	
3	53½/63	Halionma circumluens B	varied with fur cup
4	53½/68⅔	Campylodiscus vagans B.	
5	50/65	Halionma opposita ? B.	
6	47⅞/66¾	Triceratium echigenum B	broken
7	49/64⅔	Histiastrum biceps	with cloud over.
8	45½/26⅞ (right hand bin)	Triceratium Favus	Three specimens of diff. sizes
9.	"	Actinoptychus	large one broken

Z' No. 618

Position 17 300 Fathoms

No 1	68 / 65¼	Actinoptychus	with air
2	65¼ / 68¾	Eucyrtidium acuminatum?	
3	65⅛ / 76⅔		probably a Sponginella
4	65 / 30	Coscinodiscus subtilis Ehr	good one
5	63½ / 66	Lychnocanium triperestratum B.	broken
6	61½ / 71¼	Podocyrtis Ehr.	
7	59 / 65½	Diplospyris cancellatus B	good one
8	"	Halionma validu B	on N.W. margin of same field
9	59 / 23	Halionma "	
10	58 / 24¼	Halicarbum	
11	58 / 27½	Ethmorhopalum spinosum B.	
12	57½ / 80¼	Halionma aspera B.	
13	51 / 82½	(too imperfect to name)	curious fragment of a Polycistin.
14	48 / 75	Lithospera phrenostoyica B.	

"A" No. 619

Lat. B. & Sands Gulf Stream Lec VIII No 14 Depth 400 Fathoms Lat 33° 32'
Long. 76° 10' 15"

No 1	58 / 77¾	Aulicus fruiosus B.	male one
2	57½ / 65¼	Orthochapalum spongiosum B.	
3	54¾ / 80⅛	Chaetocerus falcatum B.	horn
4	50½ / 70	Eucyrtidium tuzgidulum	
5	46 / 66¼	Histastrum triceps B.	
6	44¼ / 63½	Haliarthrum ampleum B	
7	40 / 72½	Halimma opposita B	

"B" No. 6 2/9

Gulf Stream Sect VIII No 14 400 Fathoms

No 1	52 1/3 / 76 1/8	Eupodiscus radiatus B.	
2	44 / 22 1/2	Stylodictya concentrica	
3	41 / 64 1/2		stellate sponge spicule with furcate spines
4	34 / 80 1/2	Halicarya erosa B	oblique view
5	35 / 66 3/4	Eucyrtidium compressum B	
6	32+ / 63 3/4	Actinophrychus	8 rays

C" No. 621

Gulf Stream Sec VIII No 14, 400 Fathoms

	52½/76⅛	~~Eupodiscus radiatus B.~~	
	44/22½	~~Phytodictya concentrica B.~~	error Mem. Lehing & Hyde B.
	41/64½		
No 1	66/80¼	Coarnutella clathrata B. profunda	
2	64¼/65⅞	Amphora	
3	64/68¼		Sponge spicule
4	60½/25	Eucyrtidium simplex B.	
5	57¾/26¾	Orthorhopalum spinosum	
6	57+/65¾	Eucyrtidium:	too imperfect to characterize
7	57/24	Carpocanium Fragum	
8	51/79	Eucyrtidium turgidulum B	
9	48⅔/28½	Amphisentas ornata	
10	48½/23½	Coarnutella clathrata B profunda Ehr	
11	45⅞/61¼	Spongodiscus? obscurus B	with projecting rod
12	39/25¾	Aulicus fruinosus B.	good one

"D" No. 622

Gulf of Mexico! Lat. VIII No. 8 138 fathoms

Light portions in natural state

No 1	68/83½	Eucyrtidium simplex B.
2	67½/81⅔	Cornutella clathrata β profunda
3	59½/67	Lithopera? parva B.
4	59½/26⅔	Synapta , calcareous plate of,
5	43/30	Asteromphalus in clear space, surrounded & adherent
6	42/29½	by cell of a Polycystamian shell
7	41/66½	Phytodictya concentrica B small one
8	41½/74	Cornutella Fiscella? B.
9	33/66½	Phytodictya irregularis B.

E" No. 623

Gulf Stream! Sec VIII No 3, 105 fathoms Lat 24° 33'
Long 80° 43

(treated with cold Chloro-hydric acid)

No 1	56½ / 69	Bacteriastrum
2	63¼ / 26⅞	Asteromphalus
3	60¾ / 80¾	Histiastrum triceps B good one
4	60¾ / 80¾	Spongodiscus Crux B.
5	56+ / 67-	Histiastrum triceps? B
6	50 / 69½	Stylodictya concentrica B
7	39 / 62¼	Eucyrtidium? a fragment undetermined
8	38¼ / 64¾	Bacteriastrum
9	38 / 71¼	Halimma valida? B
10	32⅞ / 78¾	Bacteriastrum

F'' No. 624

Gulf Stream Sect. VIII No. 11. 510 Fathoms

Soight portions in natural state

No 1 $\frac{56\frac{1}{2}}{61\frac{1}{2}}$ Healimma lymatkres B

2 $\frac{47\frac{1}{4}}{80}$ Spongrdiscus obscurus B

3 $\frac{45\frac{7}{8}}{81}$ ~~Dictyophimus~~ Haticulyphin ? dlisa B top new

No. 625 RKEdgar 4/27/1976

G''

Gulf of Mexico Sect VIII No 8 138 Fathoms

Soight portions in natural state

No 1 $\frac{64}{76}$ Lithotrtys obscura B.

2 $\frac{54\frac{7}{8}}{72\frac{1}{2}}$ Asteromphalus

3 $\frac{57}{85}$ Spongo-discus, Crux. B.

H" No. 626

Gulf of Mexico Lec VIII No 8 138 Fathoms Lat 26°20' Long 84°41'

ucted on by cold Chloro-hydric acid, and then by my chlorate process

No 1	66½ / 72¾	Halicalyptra Petasus B.	
2	65¾ / 64¾	Eucyrtidium elongatum B	
3	63 / 78	Lithispera setigera B.	
4	61¼ / 80⅛	Histiastrum Lunula B	fine one
5	60¾ / 69¾	Eucodia gilba B.	
6	61 / 67–	Cornutella clathrata Ehr	2 varieties in same field
7	60¾ / 65½	Spongodiscus centralis B.	
8	59¼ / 72	Haliscera duplex B	with outer envelope, curious
9	59⅛ / 64¾	Eucyrtidium conicum B	
10	59⅛ / 77¾	~~Haliscera~~ Dictyospyris cordata? B	broken
11	59 / 85⅔	Cenosphaera Neptunis B	
12	58¼ / 80¼	Lithispera? producta B.	
13	56½ / 72⅛	Podocyrtis Aegles Ehr	
14	55 / 72¾	Stylodictya concentrica B	
15	55½ / 64¼	Pterocodon stolatum B	
16	"		undetermined
17	54 / 77⅛	Pterocodon? tenuis B	
18	52¾ / 28	Spongodiscus Crux B.	
19	51½ / 74¾	Haliarthrum amplum B	middle portion only
20	50¼ / 72¼	Stylodictya concentrica B.	fine one
21	49⅞ / 72¾	Lithobotrys prominens B.	
22	49 / 74	Podocyrtis decurrens B.	
23	50 / 60	Lithobotrys prominens B.	
24	50 / 69½	Halimma Panopes	small
25	46⅞ / 70¾	Haliarthrum amplum B	good one
26	43 / 67	Chaetoceros falcatum B	
27	42 / 63	Eucodia gilba B.	
28	40 / 67	Halimma valida B	
29	39 / 25⅛	Eucyrtidium compressum? B	
30	38 / 74	Podocyrtis decurrens B	
31	34 / 64¼	Histiastrum triceps B	
32	54¾ / 79	Halicalyptra? ——?	bit of net work with teeth
33.	33 / 70¾	Haliarthrum complexum B	good one

J'' No. 627

Gulf of Mexico Sec VIII. No 8 138 Fathoms

No 1	67¼ / 74	Eucyrtidium ~~inspirans~~ inspirans B.	a fragment
2	63 / 78	Cadium marinum B. (κάδιον = a small cask or cistern)	Small oval body with lines.
3	59 / 87¼	Podocyrtis Aegles Ehr	broken
4	58 / 77¾	Halicalyptra Pelasus B	fragment of a large one
5	57 / 75¾	Ommatocampe spinosum B	
6	55¼ / 78	Eucyrtidium auritum ? Ehr	with axial lines
7	55 / 74½	Podocyrtis decorus B.	
8	54¼ / 63¾	Navicula cristata Ehr.	
9	50 / 76	Spongodiscus Brux B	
10	45¼ / 83¾	Chaetoceros porrectum B (stretched out)	with retroverted horns
11	42¼ / 64⅓	Halicalyptra splendida B	fragment of a ring
12	41 / 73½	Carpocanium Tragum	
13	39 / 69¾	"	
14	33¾ / 75½	Halionna valida B.	
15	46 / 76¾	Asterolampra	two valves overlapping, { Green a coarse net work and S.W of a straight rod
16	54⅞ / 77⅓	Asteromphalus	with zig-zag rays, { clear to W end of a dark spot and S E of a Spongodiscus
17	54 / 80	Rhizosolenia bicuspidata B.	two specimens
18	49¾ / 84¾	Asterolampra	two valves overlapping N. E of a lot of lampblack
19	48 / 62¼	Asteromphalus	fine one, touching a small brown spot,

J11 No. 628

Gulf of Mexico Sec. VIII No 8, 138 Fathoms

No 1	45+ / 68−	Bacteriastrum	
2	44 / 76+	Eucyrtidium Tritonis B.	
3	64 / 28¾	Lithospira setifera B.	good one
4	62 / 66¼	Halicarya rotunda B	
5	57 7/8 / 61	Halicalyptra splendida B	fragment at meeting of two lines
6	58 / 76¾	Chaetoceros falcatum B	
7	57 / 69½ , 51½ / 64½	Rhizosolenia trigonetra B.	
8	58− / 25¼	Halicalyptra Petasus B.	broken
9	57 / 29¾	Halistrophe (στρόφη = a twist, turn) contorta B.	with spiral arrangement, curious
10	56 / 62¾	Histeriastrum Lamb da B.	
11	54¾ / 22¼	Asteromphalus	N. of a bunch of disk specks
12	54 / 84¾	~~Halicalyptra~~? Sterocolen ~~Lepugonalis~~ ~~Amphiscula~~ Tholus B. a fragment	See V 57/83
13	52 7/8 / 79	Asteromphalus	S of a brown dot
14	53 / 65	Asterolampra!	N.E. of a bit of lamphlack
15	53 / 83½	Asterolampra	broken, just N. of " "
16	52 1/8 / 23¼	Eucyrtidium curvirostrum? Ehr	notice the lines in direction of axis
17	50½ / 74		Punctate plate with irregular outline
18	50¾ / 77¾		Coat of cell of Textilaria?
19	46¾ / 69½	Stylodictya polygonalis? B.	with long spines
20	44½ / 30+	Plectospyris cancellatus B.	see U. 35/66½
21	32¼ / 60¾	Halicalyptra? fragilis B.	
22	43½ / 78 1/8	Asteromphalus	central portion, N.E. of a bit of lamphlack E of a circular diatom

"H" No. 629

Gulf of Mexico Sec VIII No 8 138 Fathoms

No 1	65 / 62 7/8	Dictyocephala uranosa ? B	Curious net work
2	67 / 22 7/8	" "	"
3	57 1/4 / 73 1/8	"	" central fusion?
4	68 / 71 1/8	Bacteriastrum	
5	62 7/8 / 75 1/4	Chaetoceros ? tetrachaeta ? Ehr	small W of a yellowish filament and close to a black speck
6	65 / 76	Asterolampra	fine one
7	62 / 21 7/8	Eucyrtidium uritum ? Ehr	
8	57 1/8 / 62 1/4	Halimma circumlucens B	
9	56 / 68 7/8	Podosyrtis decurrens B	Alpine view
10	55 / 65 1/2	Stylodictya ? irregularis B.	
11	54 1/2 / 28 1/2	Halicarya quadriforis B.	
12	53 3/4 / 23 7/8	Eucodia gibba B.	
13	57 / 62 1/2	Asterolampra	

Lo" No. 630

Gulf of Mexico Sec VIII · No 8 138 Fathoms

No 1	68¼ / 21¼	Halicalyptra Pelasus B.	very fine one
2	68 / 65	Chaetoceros? tetrachaeta? Ehr	one spine broken
3	66⅞ / 75¼	~~Rhizosolenia~~ vangula? Cooperi? Mayne new	new?
4	65 / 69¼	Chaetoceros porrectum? B new?	Mayne new, touching a list of lamphaera
5	44 / 21	Halimma opposita B.	
6	33¾ / 60	Actiniscus Pentasterias? Ehr	a common form

M'' No. 631

Gulf of Mexico, Sec VIII No 8 138 Fathoms

No 1	61 / 60 7/8	Asterolamphalus	partly obscured
2	59 / 79	Halomma	undetermined large one broken, nucleus and rays gone
3	56 1/3 / 61	Coscinodiscus? lineatus	deformed elevated
4	56 1/4 / 76	Asterolampra	broken N of a blue fibre
5	55 1/4 / 77 3/4	Cornutella obtusa B	oblique view
6	55 1/3 / 26 3/4	Summularia musica? B	small
7	54 / 77 1/2	Lithobotrys spinifer B.	
8	52 1/4 / 80 2/3	Chaetoceros porectum? B.	
9	52 1/8 / 69	Hyalodiscus radiatus	large one
10	52 1/2 / 72 7/8	Chaetoceros tetrachaeta? Ehr.	just above intersection of two threads
11	46 / 79	Textularia	cast of cells
12	46 / 67 7/8	Encyrtidium	
13	45 / 81 1/2	Ceratospyris parva B	see C 54 / 78 3/4
14	44 / 61 1/4	" "	oblique
15	54 1/8 / 78	Asterolampra	SE of Y and near a rough granule

N^11 No. 632

Gulf of Mexico Sec VIII No 8 138 Fathoms

No 1	58' 2/3 / 29½	Hyalodiscus radiatus B	
2	49 / 61¾	Amphipentas ornatum Rutlett	
3	48 / 72	Asterolampra	fine one, lowering a long thread notice the dotted photo behind it
4	45 / 62¾	Diplospyris cancellatus B	good one
5	40¼ / 84	Spongodiscus Crux B.	

6" No. 633

Gulf of Mexico Sect VIII St. 8 138 Fathoms, last five portions

No 1 $\frac{61\frac{1}{4}}{80\frac{1}{2}}$ Asteromphalus

2 $\frac{56\frac{1}{4}}{81}$ Eucyrtidium tuzgitulum? fragment

3 $\frac{55\frac{1}{8}}{77\frac{1}{2}}$ Asterolampra S of a black spot

4 $\frac{42}{68\frac{3}{4}}$ " undeterminable, fragment of an oval punctate frustule of a Diatom

P11 No. 634

Gulf of Mexico Sec. VIII No 8 1387 fathoms

No 1	42 3/4 / 28 1/2	undetermin able	
2	44 / 35 7/8	Sthrolodrys prominens B.	
3	57 1/2 / 30 2/3	Asteromphalus	touching one end of a long spicule
4	54 7/8 / 18 1/8	Hymedra	side view
5	54 / 22 3/4	Chaetoceros porrectum? B	, fragment of the horns with lateral setae

"Q" No. 635 Cast light patina

Gulf of Mexico Sect. VIII No. 8, 138 Fathoms

No 1	65 1/8 / 21 1/8	Halicarya quadriforis B.		good one
2	58 1/4 / 76 3/4	Asteriophalus	broken	N E 1 2 black spots S E " 2 brown "
3	41 1/8 / 24 1/8	Histiastrum bicepsp		good one
4	35 3/4 / 29	Haliarthrum complexum		
5	49 3/4 / 76 1/2	Chaetoceros? tetrachaetis? Var		W E of an Actinocyclus

R'' No. 636

Gulf of Mexico Sec VIII No 8 138 Fathoms · Coral light portion

No 1	55¼ / 82	Lithospira cancellata B	
2	48¾ / 68¼	Chaetoceros porrectum B	with recurved horns
3	62¼ / 63¼	Asterolampra	2 valves overlapping, E of 2 specks ·· ⊗
4	62 / 40	Chaetoceros? ~~porrectum~~ tetrachaeta? Ehr	with 4 setae, touching a list of Synedra
5	66¼ / 74	Lithobolus prominens R.	
6	"	Actiniscus Pentasterias Ehr.	
7	50 / 23	Synedra	basal view
8	38 / 62½	Asterolampra	S of the point of a black mass
9	38⅛ / 67	Asterolampra	SE of 3 dark specks & W of a round grey mass. ⊗

S'' No. 637

715 Fath 39° 55 N 70° 06 W

$\frac{49\frac{1}{4}}{29\frac{3}{4}}$ Eucyrtidium

T'' No. 638

715 Fath 39° 55 N. 70° 06 W

$\frac{47}{70\frac{3}{4}}$ Cornutella clathrata β profunda

~~X~~" U" No. 639

715 Falk 39° 55 N 70° 06 W

$\frac{55\frac{1}{2}}{80}$ Disc like Euspondiscus without feet.

V" No 640 [640A DKEdgar 9/1977]

715 Falk same as above.

~~$\frac{52\frac{1}{4}}{67}$~~ ~~Eucyrtidium~~ new? } belong to W"

~~$\frac{56}{27}$~~ ~~Flustrella~~

Nº 640 [640B RKEdgar 9/1977]

52/4 Echeyrtidum new?
67
56 Flustrella
21

x''

Y11

2"

Slide A'A' No. 641

1200 Fathoms

No 1	58½ / 74		
2	58¼ / 75¼		fragment with large meshes
3	58 / 77½	Eucyrtidium	large meshes good one
4	57¼ / 79⅛		fragment
5	55¾ / 68	Coscinodiscus	good one
6	54 / 78¼	Spongodiscus	" "
7	53¾ / 82	Eucyrtidium	good one
8	53½ / 70 , 66⅛ / 64¼ , 39 / 30	[illegible]dium	Small avoid body
9	51¼ / 28	Eucyrtidium Tritonis B.	
10	50 / 28	"	large meshes
11	47¾ / 84	Cornuletta clathrata β profunda	
12	48⅛ / 29¼	Eucyrtidium	
13	48 / 60¾		
14	46 / 31⅓	Coscinodiscus	large one
15	39 / 62⅔	Eucyrtidium	with contracted base
16	43½ / 81⅓	Lithobotrys	
17	41⅞ / 75¾	Eucyrtidium	
18	34¾ / 27¾		
19	"	Halimma	
✓ 20	70¼ / 71⅛	Cornuletta Atlantica B.	
21	70⅓ / 63¼	Eucyrtidium	
22	69¼ / 65	Halimma	
23	68 / 76⅔	Cornutella	good one
24	69 / 79⅞		
25	68¾ / 80⅛	Eucyrtidium	
26	66¼ / 80	"	
27	67 / 72	Euodia gibba B.	touching a Coscinodiscus
28	66 / 62⅔		fragment
29	66½ / 67½	Coscinodiscus	
30	63 / 75		
31	64 / 65⅔	Lithobotrys ?	
32	62⅛ / 65		

continued on next page

Slide A A' continued from last page

1200 fathoms

No 33	62/65		fragment
34	"	Eucodia gibba	N.B. The Surirella near this was accidentally introduced and does not belong to these soundings
35	61½/72¾	Podocyrtis?	
36	61½/78½	Podocyrtis	
37	60⅛/71⅛	Coscinodiscus	
38	"	Dictyocha	with long spines, just above the last
39	60½/74⅞	Halicalyptra Petasus B.	fragment of ovaryen
40	58½/60		

B'B' No. 6421

2000 Fathoms 54°17. 22°33' N

No 1	72¼ / 71¾	Eurodia gibba R.
2	67¾ / 74¾	, N.B. The Sphærolla near it does not belong to these soundings, but was introduced accidentally.
3	65 / 64⅛	Cornuletta fine specimen
4	"	[illegible]
5	62¼ / 72½	" "
6	60 / 29	Coscinodiscus
7	60⅛ / 62	"
8	49½ / 62¼	Eucyrtidium
9	41¾ / 24½	Coscinodiscus
10	38½ / 27¼	Eucyrtidium
11	31½ / 23	[illegible]

C'C' No. 643

1200 Fathoms

No 1	57½ / 75½	Bactriastrum	touching the upper end of a thread
2	57 / 87	Eucyrtidium ?	
3	57¾ / 72½	Coscinodiscus	
4	56¾ / 84	Stylodictya : irregularis Ok.	
5	53⅞ / 90	Spongodiscus	
6	47 / 81½	⊗	small fragment

D'D' 1200 Fathoms No. 644

No 1	64+ / 75	Cornutella Atlantica Ok.	
2	"	Achniscus	S.W. of preceding
3	58 / 69½		
4	53¾ / 63	Eucyrtidium	
5	53 / 74½	"	
6	"	Lithobrys	
7	"	▽	near upper end of the Eucyrtidium
8	51 / 63	Spongodiscus	good one
9	43 / 21½	Cornutella clathrata β profunda	
10	40 / 28	Coscinodiscus	

E'E' No 645

2000 Fathoms 54° 17' N 22° 33' W

N.B. Some fresh water forms on this slide were accidentally introduced with the balsam

No 1	65¼ / 69	Actiniscus	in line with 2 brown dots
2	65¾ / 69¼	Coscinodiscus	
3	64¼ / 63⅔	Eucyrtidium	
4	64 / 24¾		
5	62½ / 65½	Eucodia gibba	in N.E.
6	"	Coscinodiscus	just below
7	"	Eucyrtidium	in S.E.
8	"	Podocyrtis?	in SW a fragment
9	63¼ / 77¼	Coscinodiscus excentricus	
10	55⅛ / 78¼	Spongodiscus	
11	53 / 72¼		
12	52 / 69	Coscinodiscus	
13	52 / 71½	Lithopera?	Three Specimens
14	52 / 77⅓	Bacteriastrum	?
15	50 / 75¼	Cornutella?	top view
16	"	Eucyrtidium	
17	47¾ / 73⅛		
18	46½ / 75⅛	Spongodiscus	N.B. The Juvenile Aplerdida, Lucy G. is present accidentally
19	45¾ / 77¾		fragment
20	45¾ / 64½	?	small Polycistin.
21	43⅞ / 66⅞	Cornutella ~~Atlantica~~ B.	an imitator
22	40¼ / 77⅞	"	"
23	31 / 63¼	Peristephania?	

F'F' No 646

2000 Fathoms 54° 17' 22° 33 W

"

50/63 Halimma

fragment on right of above

GG' No 647

1360 Fathoms 44° 41 N 24° 35 W

N.B. Some frustules of Actinanthes on this slide, got in with the Balsam.

No 1	59 / 60¾	Halimma	
2	56¼ / 74⅞	Eucyrtidium	
3	56¼ / 74	Actiniscus	seen sideways
4	56½ / 71⅔	Eucyrtidium	
5	"	Halimma	a fragment
6	56 / 76¼	"	a nucleus?
7	54¼ / 80¼	Halimma dixyphos? Ehr.	
8	"		Small Podocistra SE of above
9	55¾ / 77¼		serrated spicule
10	55¼ / 77¼	Histiastrum Lambda? B	fragment
11	53¼ / 79	Cornutella clathrata β profunda Ehr.	
12	50¼ / 75	Carpocanium?	
13	50¼ / 65	[illegible]	
14	48 / 76⅔	Podocyrtis?	fragment
15	46½ / 76⅛		straight spongy rod
16	45¾ / 75⅔	[illegible]	
17	44½ / 69⅔	" "	
18	40½ / 82	Halimma	

January 24, 1890

H'H' 2700 Fath. No. 648

2700 Fathoms Lat 56°46' N Long 168°18' E Sea of Kamtschatka

1	65/62¾	Asteromphalus Brookei B.	obscured SW of ½ a Coscinodiscus
2	57½/62¾	" "	whole one seen obliquely
3	59½/67⅛	" "	"
4	"	Cornuletta	E of above
5	52⅛/62⅛	Periclamidium venustum B	fine
6	52⅛/62⅛	Halicalyphia cornuta B	"
7	64/66	Eucyrtidium hyperboreum B.	neo
8	60+/73¼	Ceratospyris	

J'J' No. 649

2700 Fathoms, same as H'H'

42 / 64¼	Podocyrtis?	
35⅞ / 30¼	Diffugia? marina B. ~~Coccp!!~~	Small lagenoid body
52⅞ / 66¾	Asteromphalus Brookei B	
48¼ / 63	" "	broken but good
51¾ / 60¾	Pleurospyris	

J'J' No. 650

2700 Fathoms, same as H'H'

47⅞ / 79½	Cornutella clathrata β profunda	
60⅞ / 75½	Halicalyptra? cornutta B	with 2 spines
49¾ / 71½	Cornutella annulata B.	
49¼ / 85¼	Coscinodiscus	large rachiate
46 / 86¾	Halicalyptra? cornuta B	top view in a mass close to edge of glass
44½ / 79	"	shape view of different species

K'K' No. 651

2700 Fathoms same as H'H'

56 1/8+ / 69 3/4	Dictyophimus?	top view
52 1/8 / 73	~~Phyllotella~~ Phyllodictya stellata B	new
"	Rhizosolenia helolata B	three specimens in same field
55 1/4 / 73 3/4	Perichlamidium	
40 1/8 / 61 1/8	Encyrtidium	
36 1/2 / 63 1/2	Cornutella	new
4 4 / 25 7/8	Perichlamidium	obscured
53 1/4 / 36	Cornutella clathrata B profunda the	

L'L' No. 652

2700 Fathoms same as H H'

57/79¾ Asteromphalus Brookei B.

M'M' small slide No. 653

2700 Fathoms same as H H' in natural state with the grease of the lead

N'N' No. 654

1700 Fathoms, July 26, 1885 Lat 60° 15' N. Long 170° 53' E Sea of Kamtschatka

1	56¼ / 62⅞	Chaetoceros furcillatum B	N of a Coscinodiscus SW of a red spot	
2	58¼ / 64¼	" "	oblique view	good — W of a large Coscinodiscus, S of a small one
3	69½ / 73	Asteromphalus Brookei B.	2 valves overlapping	all alone
4	61½ / 64	Actiniscus	5 rays	
5	57 / 20⅞	Coscinodiscus radiatus Ehr.	good one	
6	55 / 20⅞	Syndendrium diadema		
53 7	53¾ / 70¼	Chaetoceros furcillatum B.	side view	W of a rectangular fragment
8	54 / 64¾	Rhizosolenia hebetata B		
9	40 / 81¼	Asteromphalus Brookei B		
10 ✓	40½ / 79¾	Denticella? Cavitella?		
11 ✓	"	"	small one SW of above	near margin
12	40½ / 75	Asteromphalus Brookei B	good	
13	39⅞ / 75	Rhizosolenia hebetata	2 specimens	
14	34⅞ / 80¼	Denticella?		
15	35 / 81	Asteromphalus Brookei	W of above	
16	56⅛ / 67⅞	Dictyophimus gracilipes B		
17	35 / 68¾	Eucyrtidium		like E. tubulosum, with a very long curved planet at the head

6'6' No. 655

1700 Fathoms same as N'N'

1	52 3/4 / 84 3/4	Asteromphalus Brookei B	on rest of group. just above Cosc. oculus iridis
2	"	Coscinodiscus Oculus Iridis	S of above
3	"	Rhizosolenia hebetata B	NW of last
4	53 1/8 / 71 1/4	Eucyrtidium lineatum ?	
5	51 1/8 / 80 1/8	" ?	not lineatum
6	43 1/8 / 67	Plectrophyris	nov sp? obscured
7	"	Dictyocephalu ?	head of one close to last
8	39 3/4 / 28 3/4	Coscinodiscus oculus Iridis Ehr.	
9	37 3/4 / 65 3/4	Eucyrtidium hyperbiscum B	lineatum ??
10	35 / 61 1/3	Coscinodiscus oculus Iridis	good one
11	24 / 61 3/4	Dictyocephalu ?	portion of net.

'P'P' No. 656

1700 Fathoms same as N'N' Sea of Kamtschatka

	43 7/8 / 84 3/4	Asteromphalus Brookei B	2 valves
2	40 1/2 / 83	Perichlamidium	
3	58 / 21	Coscinodiscus?	side view showing bars in the ring
4	34 / 28 1/4	"	" "
5	68 1/2 / 72 1/8	Denticella ?	near a Coscinodiscus Argus?
6	69 1/4 / 27 7/8	Coscinodiscus oculus Iridis Ehr	
7	69 1/3 / 81 1/8	Asteromphalus Brookei B	
8	66 1/4 / 64 1/8	Coscinodiscus	like C. oculus iridis with larger cells
9	65 1/8 / 69 1/2	Asteromphalus Brookei B	
10	65 1/8 / ~~69 1/2~~ 66 7		Small pyriform Polycistin with spines
11	62 1/4 / 26 7/8	Cyclotella?	new
12	60 1/4 / 71 1/8	Coscinodiscus oculus Iridis Ehr	good one
13	60 1/8 / 64 1/8	Cornutella annulata B.	
14	58 / 84 -	Coscinodiscus	large one, radiates?
15	55 3/4 / 73 1/2	Eucyrtidium ~~hippocrepicum~~ B	
16	56 1/4 / 63 1/8	Cornutella clathrata β profunda Ehr	N of India
17	56 1/4 / 17 1/4	Coscinodiscus	with fine rays E of a bit of Eucyrtidium
18	55+ / 24 1/8	Dictyocha	new? N. E of a broken Coscinodiscus
19	53 1/2 / 68	Halicalyptra cornuta B	with 2 spines
20	52 1/8 / 80	Denticella	small one
21	50 3/4 / 70 1/4	Cornutella annulata B.	good one
22	48 3/4 / 74 1/4	Denticella	small one
23	59 1/2 / 72 3/4	Cadium marinum B.	
24	38 1/4 / 62 1/4	Spongodiscus? Argus B	
25	"	Dictyophimus gracilipes B	touching the above
26	"	Halicalyptra cornuta B	N. W of above
27	35 / 64	Perichlamidium venustum B	fine one
28	37 3/4 / 65 1/4	Spongodiscus?	with long spines and a tube
	42 3/4 / 27 3/4	Perichlamidium venustum B	good
	33 1/8 / 70 3/4	Asteromphalus Brookei	E of Cosc. oc. iridis
	57 1/3 / 74 1/4	Syndendrium diadema	E of upper part of a long crooked line
	53 1/8 / 74 7/8	"	"

Q'Q' No. 657 [657A RKEdgar 9/1977]

1700 Fathoms same as N'N' light portions

√ 45/65¾	Asteromphalus Brookei B.	a perfect specimen
38¼/62½	" "	central portion
58/67	Rhizosolenia hebetata B.	with cylindrical portion
37¾/77¾	Gyrosigma	small
"	Asteromphalus Brookei B.	SW of last central portion

[657B RKEdgar 9/1977]

No 657 Q'Q' a, small slide ~~missing~~

1700 Fathoms same as N'N'

No 658 R'R' small slide (~~Amazing~~)

900 Fathoms, temp (deep sea) 32° Saxlow, July 28/55 Lat. 60°30' Long 175 E. Sea of Kamtchatka

[658B RKEdgar 9/1977]

No 658A [658A RKEdgar 9/1977]

Atlantic Ocean R'R' large Slide 2000 Fath 54° 17 N 22° 33 W

51/71 Coscinodiscus 2 specimens

71/4 50 2/3 Eucyledrum frust

40/4 71 Eurdia gibba

S'S' No. 65g

900 Fathoms same as R'R'

35′ No. 660

900 Fathoms (same as R′R′)

1	53½ / 80⅞	Asteromphalus Brookei B	N of a Coscinodiscus oculus Iridis
2	68 / 28⅛	Halicalyptra?	spinose head
3	66 / 83	Cyclotella? sertenuis B.	very faint, near two rectangular lits
4	65 / 68	" "	"
5	63⅛ / 61¾	Actiniscus	5 rayed near a Rhizosolenia
6	63½+ / 62¼	Coscinodiscus	~~radiatus~~?
7	56 / 80⅞	Eucyrtidium turgidulum?	
8	39¾ / 60½	" hyperboreum B.	Eucalum?
9	37 / 81⅞	Dictyophimus?	
10	33⅛ / 74	Eucyrtidium hyperboreum B.	2 specimens
11	"	Rhizosolenia hebetata B	" " SW of above
12	31⅞ / 65¾	Coscinodiscus oculus Iridis Ehr.	

U'U' No. 661

900 Fathoms (same as R'R')

$\frac{42\ 7/8}{80}$ Cerebrospyris ?

$\frac{63}{79\ 1/4}$ Spongodiscus ? large one

'Y'Y' No. 662

900 Fathoms same as R'R' guide lines – wrong side

Record as seen through the slide –

3/82 Asteromphalus Brookei

40 3/4 / 74 3/4 Rhizosolenia? very small [illegible] Coscinodiscus

'W'W' No. 663

900 Fathoms same as R'R' (recorded by position of edges of slide)

N.B. The guide lines being ruled on the wrong side have not been used, but the record was made by means of the ~~upper and right~~ edges of the glass, the arrow being to the left and underneath.

1	18 3/4 / 108 7/8	Asteromphalus Brookei B.	good one
2	13 / 99	Syrosigma	very thin
3	25 1/2 / 29 1/2	Asteromphalus Brookei B.	
4	40 / 109 1/2	Coscinodiscus Oculus Iridis Ehr	
5	21 1/8 / 109 1/8	Rhizosolenia hebetata B.	several specimens
6	25 1/8 / 83	Coscinodiscus oculus Iridis Ehr	
7	37 7/8 / 104 3/4	" "	with another (C. Argus?) like an eclipse

X' X' No. 664

900 Fathoms same as R' R'

1	62¾ / 68½	Encyrtidium
2	57½ / 79¼	Dicladia Mibra B
3	36½ / 81⅛	Encyrtidium

like 1 & 2 ?

Y'Y' No. 665

900 Fathoms same as R'R'

1	65⅞ / 29	Halimma	small one with spines
2	60½ / 25	Halicalyptra cornuta B	2 horned
3	60 / 82½	Coscinodiscus	5 specimens in same field
4	53¼ / 72¼	Asteromphalus Brookei B.	
5	54 / 73½	Eucyrtidium hyperborean	
6	50 / 79¼	Coscinodiscus oculus Iridis Ehr	
7	48⅛ / 77½	Cornuletta annulata B	
8	44¼ / 90¾	Coscinodiscus	2 specimens
9	44+ / 26¼	Lithobotrys inflatum B	~~[illegible]~~?
10	40¾ / 62¼	Stylodictya	~~[illegible]~~, spinosa?
11	40¾ / 75	Triceratium	
12	38 / 22	Coscinodiscus oculus iridis Ehr	
13	"	"	another specimen
14	35⅛ / 74	Didadia Mitra B.	
15	31¾ / 61	Lithobotrys	

Z'Z' No. 666 2 slides

Mud from head of a whale captured in Okhotsk Sea Lat 57° 28' N Long 151° 20' E

W'a. No. 666 1/2 [See No. 615 PALEdgar 9/1977]

Sec VIII. 300 fathoms Boiled in HNO3

W'b. No. 667

300 fathoms Boiled in HNO3 x HCl.

W'c No. 668

300 fathoms, acted on by HNO3 x HCl. then ignited then heated with x KO.

Berryman's Soundings
between America and Ireland in 1856

Cat. No. 669 Berryman's Soundings No 1, 47° 50' N, 52°, 00' W. Depth 96 Fath

No. 670 Berryman's No 2, (light parts) 48° 00 N. 51° 41 W 130 Fath

Cat. No. 67

Berryman No 3 48° 13' N 51° 20 W 98 Fath

No 672

. Berryman No 4, light parts 40°27' N 50°58' W 85 Fath

71½ / 71¾	Coscinodiscus	broken at bp		71½ / 71¾
	" crassus? B			71 / 63½
	Synedra	N. W of Cast		"
	Coscinodiscus venus inidis			70 / 75¼
	Chaetoceros boreale B			69 / 73¼+
	" furcillatum B	N. of Cast		"
	" "		⊃⊂ ()	68¾ / 72
	Actiniscus	5 rays		66 / 69
	Chaetoceros furcillatum B	2 specimens	N of Cast	"
	Coscinodiscus		large one	65½ / 75½
	Chaetoceros boreale		✳ ✕ fragment N of 2 spinules	65¼ / 67¾
	Coscinodiscus		good	65 / 69
	Rhizosolenia		in a curved Y	61¾ / 61
	Chaetoceros boreale B		fragment	60 / 76½
	Ceratospyris?		"	59 / 70
	Actiniscus			56¼ / 60½
	Coscinodiscus		fine one	55 / 80¾
	Chaetoceros boreale? B	with one long horn	touching a Synedra	46½ / 65⅓
	Dictadia Mitra? B		S of a brown Cast	44 / 74¼
	Polythalamian shell, membrane of			42¾ / 71½
	Coscinodiscus		good one	40½ / 74
	Gummodiscum?	membrane of		38¼ / 60½
	Rhizosolenia decurrens B.	nov. sp		37¾ / 60¼
	Coscinodiscus borealis B		good	35¾ / 28½
	Rhizosolenia decurrens B.			34½ / 61¾
	" "		SW of a Cable	34¼ / 62½

No. 673

Berryman No 5 42° 40' N 50° 36 W 120 fath

44/70½	Coscinodiscus borealis B		44/70½
	" crassus "		69½/79¾
	Spongiolites biceps B n. sp		70/69
	Denticella avita Ehr	deformed	67/85¼
	Actiniscus		63½/73
	Coscinodiscus borealis B	fine	63/28
	Lagena?		63/88¼
	Spongiolite		62½/84½
	Strophoconus?		58/82¾
	Tessella catena?		40½/80½

No. 694

Berryman No 6 light parts, natural del. 48° 51' N 50° 10' W 1100 Fath

1	Coscinodiscus borealis B		52¼ / 69¾
2	" oculus iridis Ehr		67 / 69¼
3	" crassus? C. borealis without slor?		67¾ / 69
4	" "		67 / 73¼
5	Stephanopyxis Ehrenbergii B. n. sp		67 / 26¾
6	Coscinodiscus borealis B	fine one	66½ / 80
7	Eucyrtidium auritum? Ehr		64¾ / 68
8	Coscinodiscus borealis B	fine	64½ / 75¼
9	Stephanopyxis Ehrenbergii B	2 specimens	62¾ / 69
10	Rotalia levis B n. sp		62½ / 72¼
11	Stephanopyxis		61 / 71¼
12	Coscinodiscus borealis B	good	60½ / 65¼
13	Rotalia levis B.		59¾ / 74¼
14	Coscinodiscus oculus iridis		59½ / 80
15	Stephanopyxis Ehrenbergii		58½ / 20¼
16	Spongolite		57½ / 83
17	Stephanopyxis Ehrenbergii B		56½ / 60¼
18	Coscinodiscus borealis B.		55½ / 71
19	Stephanopyxis Ehrenbergii		53 / 64¼
20	" "		50 / 62½
21	Eucyrtidium auritum? Ehr		49¾ / 70½
22	Coscinodiscus borealis B.	good	43¾ / 21½
23	Stephanopyxis Ehrenbergii B		38¼ / 28½
24	" "	with spinose apex	37½ / 68
25	Coscinodiscus oculus iridis Ehr	large	36 / 25
26	Grammatophora?	end view	36 / 62½
27	~~Coscinodiscus oculus~~ or	Polytrichamina Bell	36¾ / 69
28	Coscinodiscus oculus iridis Ehr	good	34½ / 64¾
29	" borealis	"	33¾ / 80
30	Stephanopyxis Ehrenbergii		32½ / 60¾
31	Eucyrtidium auritum Ehr		31¼ / 62
32	Stephanopyxis Ehrenbergii B	touching Cas	"
33	Rotalia		30¾ / 64
34	Coscinodiscus crassus		30 / 75¼

No 674 Berryman No 6 natural slate 48° 51 N 50° 10 W 1100 F.

No 675 Berryman No 7 natural slate 50° 05' N 40° 26 W 1500 Fath

No 675. Berryman No 7 light part 50° 05' N, 40° 26' W 1500 Fatt.

No. 676 Berryman No 8, a, natural state 50° 20' N 88° 30' W 1564 Fatt.

No 677. Bowman No 8, b. Light parts 50° 20' N 38° 30' W 1564 Fath

58/62½	Eucyrtidium		58/66½
	Eucyrtidium		62/76½
	"		43¼/64¾
	Gummostomum	N.E of last	"
	Cornutella		39¼/72½

No. 678

[678A RKEdgar 9/1977]

Berryman No 8 c with acid, light part 50° 20' N 38° 30' W 1564 Fath

Coscinodiscus borealis B		51¾ / 72½
Flustrella concentrica? Ehr		57½ / 84¾
Coscinodiscus [illegible]		61 / 73
Eucyrtidium [illegible]		61¾ / 67
Coscinodiscus borealis B.		60½ / 68
Eucyrtidium [illegible]		59½ / 65¾
Coscinodiscus borealis? B		58 / 71½
Flustrella concentrica Ehr		57¾ / 85
Coscinodiscus borealis B	good one	55½ / 76½
" "	"	51¾ / 72¾
" [illegible]		50½ / 62
Cornutella clathrata, β profunda Ehr		42 / 74
Halimma apposita B		39¾ / 79½
Caenosphaeria Plutonis? Ehr		38¾ / 89½
Halimma		36 / 76

[678B RKEdgar 9/1977]

Berryman No 8 d with acid, light part 50° 20' N 38° 30' W 1564 Fath

No. 679

· Berryman No 8 e, treated with HCl acid

Coscinodiscus borealis? B	bitten	49/77⅛
Eucyrtidium [illegible] B		56/75
"		64½/81
"		63/79¼
"		61/67½
" [illegible]		60¼/78¼
Coscinodiscus borealis B	good	59/70
Eucyrtidium [illegible]		60/28
Halicarya erosa B		55/60
Rhizosolenia decurrens B	SW of last, touching it	"
Flustrella		54/84½
Halicarya	NE of last	"
Coscinodiscus	SE of last	
Podocyrtis		39½/80½
Spongodiscus [illegible]		49½/29
Eucyrtidium		59/80½
Cornutella clathrata β profunda Ehr		"
Eucyrtidium		59/84

No. 680

Berryman No 9a natural slat 50° 44′ N 37° 15′ W 1600 Fath

No. 681

Berryman No 9 b. with acid 50° 44′ N 37° 15′ W

No. 172

Berryman No 9c, with acid, lightest part		50° 44' N 37° 15' W	1600 F
Coscinodiscus oculus iridis ?		broken	43¾ / 64
Cadium maximum B			58¾ / 74
Coscinodiscus [illegible] B			58 / 27
Rhizosolenia decurvens B			58¾ / 64½
" " "		SE of Cast	"
Coscinodiscus		seen diagnely	58 / 20¾
Coscinodiscus borealis B		fine	58 / 27
Cadium			56¾ / 26
Halimma			56¼ / 60¾
Halicarya			56 / 64
Coscinodiscus [illegible]			54½ / 65¾
Quinqueloculina ?		membrane of,	52 / 28¾
Halimma opposita B.			51¾ / 26½
Cadium ? [illegible]		on E of crust	48¾ / 61½
Dictyophimus			48¾ / 76¼
Actiniscus		5 rays	48¼ / 74
"		N.E of Cast	"
Eucyrtidium avitum ? Ehr			47 / 73¼
Cadium [illegible]			47¼ / 73
Rhizosolenia decurvens B		2 specimens	45¼ / 63
Coscinodiscus borealis B		good	41¾ / 66½
Halicalyptra ?			41¾ / 62¼

No. 683

Berryman No 9 d, with acid, light part 58° 44' N 37° 15' W 1600 Fath.

220 GHH

Berryman No 9 e with acid, Lenriest part 50° 44' N 37° 15' W 1600 Fath

Spongodiscus spinifer B	non with rays	46¾ / 65¼
Eucyrtidium auritum? Ehr	N of Cart	"
Halicarya crosa B		69½ / 72½
Spongodiscus aculeatus? Ehr		65¼ / 72
Halimma	see S'	69 / 73¾
Pumice		63 / 71¼
Eucyrtidium auritum? Ehr		60¾ / 66
Flustrella		59¼ / 74¼
Halicarya		58¾ / 69½
Coscinodiscus [illegible]?		55½ / 64
Podocyrtis Berrymannii B.		59 / 77½
Cornutella clathrata B profunda Ehr		44½ / 72¾

No. 683

Berryman No 9 f. light parts, natural slate 50° 44' N 37° 15' W

No. 6.

Berryman No 10 a, natural slab 50° 06' N 35° 50' W 1050 Fath

No. 687

Berryman No 10 b light part 50° 06′ N 35° 50′ W

No. 6[illegible]

Berryman No 10 c, with acid

Spongodiscus	large no handle	46¼ / 70
Coscinodiscus crassus	B	67¼ / 63¾
Haliomma	with long spines	61¾ / 26½
Halicarya		51¼ / 72¼
Cornutella annulata		57½ / 79

No. 689 Berryman No XI a natural state 51° 15' N 34° 08' W 1680 Fath.

No 690

Berryman No 11 b, light parts

No. 691

Berryman No 11c with acid — 1680 Fath

Isthmia nervosa Sm		36¼ / 75¾
Eucyrtidium		69¼ / 80½
Cadium		68 / 72¾
Cornuletta dimmulata		66½ / 64¾
Cadium		67 / 64¼
Coscinodiscus		63 / 60
Cornuletta dimmulata		60½ / 29
Halicalyptra ?	small	56 / 81
Cornuletta nonulata		55¾ / 86½
Dictyocha		54 / 71½
Cornuletta clathrata β profunda Ehr		53 / 66¾
Podocyrtis Berrymanni B.		50 / 77½
Eucyrtidium	frag!	50 / 62
Dictyophimus	SW of last	49½ / 61½
Histiastrum	new ?	49¾ / 73½
Eucyrtidium ?		48¾ / 90½
Flustrella		46¾ / 80
Eucyrtidium		45¾ / 78
"		41½ / 65½
Bit of Pumice		40½ / 67½
" "		38½ / 62½
" "		37¾ / 25½
Eucyrtidium ?		36¾ / 64¼
Triceratium		36¾ / 72½
Histiastrum triceps B		36 / 72¾
Cornuletta dimmulata	N. E of last	"
Podocyrtis Berrymanni		34 / 85½
Cenosphaera		33¼ / 8[illegible]½
Halicalyptra ?		33½ / 98½

No. 692

Berryman. No 12 a natural slab 50° 38' N 32° 20' W 2070 Fall

No. 693 Berryman No 12 b, natural slate

No. 694
Berryman No 13 a natural slate 52° 24 N 29° 16 W 2000 + M

No. 695
Berryman No 13 b, with acid, 52° 24' N 29° 16' W 2000 Fath

No. 696

Berryman No 14 a natural slate 52° 26′ N 27° 18′ W 1830 Fathoms

No. 697

Berryman No 14 lb. light barb

1830 Fall

No. 698
Berryman No 14 c milk acid 52° 26′ N 27° 18′ W 1830 Feb

No. 699

Berryman No. 15 a natural stat. 52° 25' N 26° 20' W 1930 Fath

No. 700

Berryman No 15, b. light parts 52° 26' N 26° 20' W 1930 Fath

Coscinodiscus		41 1/4
		83 1/4
Bacteriastrum	central portion in a cond. o E. of a black spot	65
		68.
Corniteella clathrata		62 1/2
		65 1/2
64 / 76 1/2 Halicalyptra ?	drawn	63 3/4
		77 1/4
Flustrella ??	broken	63
		74 1/2
Spongodiscus		60
		74 1/2
Haliomma	broken	61
		83 1/2
60 1/2 / 60 1/2 Polyces ?	new fragment not to be drawn B	60 1/2
		61 1/4

See 135

No. 701

Berryman No 15 C, nitr acid light part

	Coscinodiscus	41 1/4 / 82 1/4
	Bacteriastrum central portion in a crowd & E. of a black spot.	65 / 68
	Cornutella clathrata	62 1/2 / 65 1/2
64 / 76 1/2	Halicalyptra ? drawn	63 3/4 / 77 1/4
	Flustrella ?? broken	63 / 74 1/2
	Spongodiscus	60 / 74 1/2
	Halionma broken	61 / 83 1/2
60 1/2 / 60 1/2	Polycestra ? new fragment not to be drawn B	60 1/2 / 61 1/4
	Dictyophimus ?	56 3/4 / 64 1/4
	Cornutella fiscella fragment	56 / 88 1/4
55 1/2 / 86	Halicalyptra like no 4	55 1/4 / 86
	Cadium marinum	55 1/2 / 85
	Cast of spine of Echinus ??	55 1/4 / 82
	Spongodiscus ? capitatis B new	54 3/4 / 77
	S of a broken Halionma	
	Cornutella annulata B.	54 1/4 / 82 1/2
	Cast of spiral Polythalmia	53 1/2 / 80 3/4
	Coscinodiscus	52 1/2 / 88
	Encyrtidium good	48 1/4 / 72 1/4
	Actiniscus	46 3/4 / 89 1/4
	Spongodiscus	45 3/4 / 61 3/4
	Halionma broken showing nucleus	45 1/4 / 85 1/2
44 / 81	Cadium ?? paradoxia ? not to be drawn end view ? looking a bit of Spongodiscus	45 3/4 / 81 1/2
	Encyrtidium	42 1/2 / 66 1/2
	Flustrella concentrica ?	40 / 72 3/4
40 / 88 1/4	Dictyocephala araneosa B. Lead part touching a dark mass + S. W of a Coscinodiscus	39 3/4 / 88 1/2
	Cornutella clethrata	38 1/2 / 79 1/2
	Halionma opposita ? B	37 / 42 3/4

No. 702

Berryman No 15 d with acid, heavy part 52° 26′ N 26° 20′ W 1930 Fath

No. 723

Berryman No 16a natural state 52° 02' N 24° 51' W

No. 704
Berryman No 16 b. with acid left part 52°02'N · 24°51'W 1813 fath

Flustrella concentrica	broken	55 3/4 / 64
Cornutella atlantica ?	2 specimens	65 3/4 / 75 1/2
Cornutella clathrata		65 1/4 / 75 1/4
Encyrtidium		60 1/2 / 78
?		59 / 72 1/4
Halicarya erosa ?		59 1/4 / 74 1/2
Encyrtidium lineatum ?		59 / 74 3/4
Rhizosolenia	quite faint	59 / 81 1/2
Haliomma		57 1/2 / 84 1/4
Halistrepha contorta ?	See J" No 9	58 / 79 1/2
Halicalyptra ?	B of a broken Flustrella	56 3/4 / 82 1/4
Encyrtidium		55 3/4 / 63 1/4
Halicarya		55 1/2 / 28
Bacteriastrum	central portion w. of a globular brown mass	53 3/4 / 79 1/4
51/66 Podocystis Berrymanni		52 / 66
Coscinodiscus	small	52 1/2 / 85 1/4
Encyrtidium		50 1/2 / 81 3/4
Enodia gibba	small one S.E of last touching large mass	50 1/2 / 66 1/2
Encyrtidium tritonis		49 1/2 / 64 1/4
Flustrella		49 / 67
Enodia gibba	small one	45 1/2 / 65 1/4
Encyrtidium		44 3/4 / 25 1/2
Rhizosolenia decurrens	near S.E corner of dirty mass	44 1/2 / 61 1/4
Encyrtidium tritonis		44 / 28
Encyrtidium		43 1/4 / 70 3/4
Coscinodiscus		42 / 86 1/4
"	another species	41 1/4 / 71 1/4
Haliomma		41 / 81

No. 705
Berryman No 16 c with acid, heavy part 52° 02' N 24° 51' W 1813 Feb

No. 706
Berryman No 16 d, light part

No. 707
Berryman No 17 a, natural state 51° 4½' N. 22° 23' W 1650 Falk

No. 708

Berryman No 17 b, Light hair 51° 41' N 22° 23' W 1650 Fall

No. 709
Berryman No 17 c with aid 51° 41' N 22° 23' W 1650 fathoms

Halionma opposita	46 3/4 / 91
Carnutella atlantica 3 specimens	46 3/4 / 72
Encyrtidium simplex ??	46 / 64
Spongodiscus	45 3/4 / 87
Spiny & ringed Spongolite	49 / 72 3/4
Ilustrella concentrica	52 1/2 / 84 3/4
Enodia gibba	62 3/4 / 83 1/4
Bacteriastrum just S of a small coscinodiscus	63 / 74
Dictyocha speculum ?	63 1/2 / 76 3/4
Encyrtidium tritonis	61 / 81 1/4
Carnutella atlantica	60 / 74 1/4
Halicalytra ?	58 3/4 / 65 1/2
Encyrtidium	53 3/4 / 73
Coscinodiscus	56 / 70 1/4
Cadium marinum	54 / 63 1/2
" (many ashes not recorded)	53 3/4 / 84 1/2
Actoniscus S of last	"
Carnutella clathrata	50 3/4 / 81 1/2
" atlantica	50 1/2 / 63 1/3
Encyrtidium	50 1/2 / 64
Coarse net work	50 1/4 / 84
Encyrtidium + Lithobotrys ? } S of last	"
Halicalyptra ??	49 / 74
Encyrtidium ? simplex ?	48 3/4 / 88 1/2
Lithobotrys ?	48 / 70 1/4
Rhizosolenia decurrens	48 / 66 1/4
Forms seen but not recorded	
Dictyocha fibula common	
Synedra	
Rhizosolenia decurrens	
Actiniscus	
Encyrtidium lineatum	
Dictyocephala fragment	

No. 710. Berryman No 18a natural stab 57°45 N, 21°19' W 1590 Fath

No. 711. Berryman No 18 b, light part, " "

No. 712

Berryman No 18 c, with acid 51° 45' N 21° 19' W 1570 Fath

Some good things on bottom that not yet recorded

Halicalyptra	35 3/4 / 81
Flustrella concentrica	58 / 72
Halicalyptra petasus fragment of rim? others seen	58 / 25 3/4
Enodia gibba B. good one	56 1/2 / 80 1/8
Haliomma opposita?	55 1/4 / 26
Encyrtidium new? drawn	55 1/4 / 84 1/2
Encyrtitium oribratum? B.	54 1/2 / 92 1/8
Coscinodiscus oculus iridis? fine one	52 3/4 / 84 1/4
Podocyrtis ? — head	50 1/2 / 88
Coscinodiscus borealis? good	47 3/4 / 65 1/4
Haliomma opposita	47 / 68
Cadium marinum	47 / 71
Piece of Pumice	45 1/2 / 85 7/8
Encyrtitium elongatum	45 1/4 / 89 1/2
Podocyrtis like P. Berrymanii	45 / 84 3/4
Caenosphaera like grains of pollen with ?	45 1/2 / 75 1/2
Cornutella fiscella	45 1/2 / 62 3/4
Flustrella concentrica	43 3/4 / 65
Plectrophyris cancellatus B.	42 / 87
Podocyrtis Berrymanii B see K	41 / 76
Coarse net work	41 / 72 1/4
Halicalyptra?	38 3/4 / 29 1/4
Encyrtidium lineatum? good	34 / 85
Cenosphaera Neptunis B. S.E. of last	
Encyrtidium new? drawn	36 1/2 / 89 1/4
Dictyophimus?	35 3/4 / 63 1/4
Flustrella concentrica?	48 / 85
Coscinodiscus oculus iridis?	70 1/4 / 86 1/4
Cornutella clathrata β profunda	70 1/2 / 84 1/4
Encyrtidium lineatum S.E. of last	"
Cornutella atlantica?	70 / 86
Podocyrtis new sp. fine	68 3/4 / 60 1/2
Haliomma	69 / 71
Coscinodiscus small	69 / 84 3/4
Haliomma?	68 3/4

No. 713

Berryman No 18d with acid, 51° 45 N 21° 19 W 1590 fath

2 transpt. Crystals with small black ones	41/73 3/4
Group of black opaque crystals	61 3/4/75
Transpt. Crystals & of black mass	61/75 1/2
Pumice	60 3/4/68 1/2
Volcanic glass with embedded crystals	58 1/2/79 1/4
Pumice	50/70
"	50 1/4/67 1/4
"	47 1/2/74 1/2
Flustrella concentrica ?	45 3/4/62 1/2
Transpt mass with embedded crystals	38 1/2/83 1/2
Light colt. obsidian ? S of black spot	37 3/4/73 3/4
Transpt mass with embedded crystals good	35 3/4/71 1/4
Irregular spinose Spongolite	58 1/2/79 1/4

No 712

Berryman No 18c continued

Halicalyptra ?	68 3/4/88 1/4
Coscinodiscus lineatus between last two	"
Coscinodiscus oculus iridis	67/79 3/4
Flustrella	66 1/4/80 7/8
Cornutella atlantica with 2 spines	65 3/4/77 1/2
Encyrtidium	64 1/4/60 1/4
Coscinodiscus	64 3/4/93+
Stylodictya	64/76
Enodia gibba B others on — not recorded	64/70 1/4
Coscinodiscus	64/69 1/4
Encyrtidium	64 1/2/60 1/4
Dictyophimus	62 3/4/75 1/4
Histiastrum triceps	62 3/4/84
Encyrtidium	63 1/4/92 1/2
Halicarya	61 3/4/64 1/4
Orthorhopalum spongiosum B.	56/92 3/4
Coscinodiscus lineatus	58 3/4/76
Spongodiscus	58 1/4/69 3/4

No. 714

Berryman No 19 a natural date 57° 50' N 20° 12' W 1545

No. 715

Berryman No 19 b, light parts " "

No. 716

Berryman No 19c with acid light part 51°.50 N. 20°.12 10

Haliomma	56 3/4 / 29
?	55 3/4 / 29 1/4
Peristephanium Enlycha Ehr.? (Coscinodiscus?)	55 1/4 / 68 1/8
Encyrtidium with a deformed	53 1/2 / 75 1/4
Lithomelissa? calva? B	53 / 28 3/4
Cadium marinum B. N.E of last	"
Podocyrtis Berrymanii oblique, broken but good.	52 3/4 / 60 1/2
Halicalyptra?	52 1/2 / 24 3/4
Haliomma apposita B.	51 3/4 / 79
Dictyocha 2 specimens	51 1/2 / 80 1/2
Actiniscus? near last & S. of large yellow spot	"
Haliomma	51 / 71
Euodia gibba fine one	48 3/4 / 26
Actiniscus near lower end of last	"
Haliomma valida B.	47 3/4 / 24 3/4
Stylodictya Flustreela? } concentrica?	48 / 79
Encyrtidium auritum?	47 3/4 / 70 1/3
Cornutella Atlantica E. of last	"
Ceratospyris new?	46 / 61 1/4
Haliomma	44 / 24
Encyrtidium lineatum? Ehr. } " amplicatum B. }	44 / 68
Coscinodiscus	43 / 88 1/4
Dictyophimus N.E. of last top view good	"
Cadium marinum B.	41 / 71 3/4
Fragment of a new Polycestin Forms seen but not recorded	40 / 71 1/2
Dictyocha fibula & Cornutella clathrata B profunda	
Rhizosolenia	40 / 66
Histtrastrum biceps B good one	39 3/4 / 85
38 1/2 / 79 Encyrtidium paradoxum B. new	38 1/2 / 78 3/4
Podocyrtis Berrymanii B	38 / 88
Spongodiscus densus B	"

No. 716

Berryman No 19 c with acid left part 57° 50' N 20° 12' W 1895

Flustrella concentrica	52 / 73 1/2
Dictyophimus new?	70 3/4 / 82 3/4
Spongodiscus elliptica B (common)	69 3/4 / 77
Encyrtidium elongatum? B	68 3/4 / 79 1/4
Enodia gibba B large	68 / 74
Coscinodiscus	67 1/2 / 85 1/4
" lineatus Ehr. W. of last	
Cenosphaera? N.E. of "	
Rhizosolenia new?	66 1/2 / 87 3/4
Halicalyptra Petasus bit of rim W of last	"
Bacteriastrum central patin S E of Rhizosolenia	"
Actiniscus S of Flustrella W of a ring	66 1/2 / 83
Haliomma 2 species	66 1/2 / 79 1/2
Rhizosolenia near coarse net work	66 / 78 1/4
Encyrtidium elongatum? B	66 / 78 3/4
Haliomma opposita B.	65 / 90 1/2
65 1/2 / 81 1/2 Dictyocysta B new drum	65 1/2 / 82
Cornutella Fiscella	65 1/8 / 76 1/4
Cadium tenuistriatum B } Actiniscus S W of last }	65 1/2 / 69
Synedra between a Spongodiscus & Enodia	65 1/4 / 67 1/4
Cornutella clathrata B profunda Ehr.	64 3/4 / 76 1/2
Cornutella Atlantica B.	64 3/4 / 77 1/2
Flustrella concentrica	65 1/4 / 79 1/2
Halicalyptra?	64 1/4 / 83
Halicalyptra? or Dictyocysta?	64 / 86
Encyrtidium compressum? B	63 / 87
Encyrtidium elongatum B	63 3/4 / 77 3/4
Dictyocysta Manzii B small not to be drawn	63 / 81 1/2
Singular body with 2 horns, fragment	60 1/2 / 89 1/4
Bacteriastrum with rays touching concave side of a thread	65 1/2 / 88 1/2
Enodia gibba B. large one } Dictyocysta? Manzii? touching last }	60 3/4 / 64
Podosyrtis Berrymanni	59 / 79 1/2
Dictyocysta deformed	58 1/4 / 68 1/2
" or Halicalyptra	58 1/4 / 61 1/4
Cadium marinum B.	56 3/4 / 80 1/2

No. 717

Bowman No 19 d with acid, heavy part 57° 50 N 20° 12 W 1543

Spongodiscus mammbriatus B	39/78 1/4
Coscinodiscus gord one	73/64 1/2
Hyalothiscus broken	58 3/4/75
Lithobotrys	55 1/2/73 1/2
Dictyophimus new?	52/61 1/2
Haliomma	50/73 1/2
Coscinodiscus	49/61 1/2
Encyrtidium elongatum B	46 1/2/73 1/2
Spongodiscus mammbriatus B	47 1/4/77 1/4
Volcanic glass? with embedded xtals	44 1/4/76 1/2
Encyrtidium aculeatum? Ehr.	43/67
Flustrella concentrica? Ehr.	42 3/4/61 1/2
Carpocanium fragum B	41/71 1/2
Spongobus luxus B.	
Orthorhopalum spongiosum B	34/67
Carpocanium fragum	33 3/4/72 1/2
Haliomma	34/76 1/2
Encyrtidium compressum? B	"

No. 718

Berryman No 20 a natural state, 52° 01 N 17°06 W

No. 719

Berryman No 20 b, light part. " "

No. 720

Berryman No 20 c with acid light part

Flustrella concentrica touching a Podocyrtis	61/69 3/4
Haliomma valida?	69/61 1/4
Coarutella clathrata B profunda	66 1/2/66 1/2
Coscinodiscus, large cells	65 3/4/66
Spongosphaeria laxus	64/66
Podocyrtis	62 1/2/67 1/2
Orthorhopalum spinosum B. S. of last	"
Dictyocysta	61 3/4/68 1/4
Encystidium lineatum? 2 specimens	61 1/4/64
Haliomma opposita B. 1 spine short	61/67 1/2
" " "	61 1/4/71
Spongodiscus marginatus B. good one	60 3/4/67 1/2
" "	61/65 3/4
" ellipticus B	61/60 1/4
Coarutella Atlantica B. good one	60 1/4/69
Halicarya erosa B.	60/68
Coscinodiscus	58 1/4/61 3/4
Halicalyptra? S. W. of last	"
Dictyocysta?	
Haliomma opposita, broken showing nucleus	59 1/2/61 1/4
Encystidium Tritonis B. fragt.	57 3/4/64
57 3/4/64 1/4 Cadium ornatum B. new	59 1/2/64 1/2
Haliomma, outside broken? touching last in S. E.	"
Dictyophimus end view	57 3/4/66 1/2
Haliomma	57/77
Podocyrtis new species? var of P. Berrymanis - drawn	56 3/4/61 1/4
Pinnularia peregrina	56 3/4/75
Coscinodiscus lineatus Ehr.	56/75 3/4
" oculus iridis	55 3/4/67 3/4
Pterocodon Tholus S. W. of last	"
Encystidium or Podocyrtis? broken	55 1/4/64
Cadium marinum	55 3/4/60 1/2
Haliomma	55 3/4/71 1/2
Cenosphaeria	55 1/2/76 1/4

No. 720 (Continued)

Berryman No 20 c with acid light part

Encyrtidium cribrosum? B.	54 1/2 / 71 1/2
Lithobotrys	54 1/2 / 69 1/2
Encyrtidium anritum? Ehr.	54 1/2 / 71 1/2
Podocyrtis Berryman[illegible]	52 1/2 / 63 3/4
Cadium marinum B	51 1/2 / 64 1/2
Cosmodiscus excentricus	51 1/2 / 73
Enodia gibba B	51 / 64 3/4
Halicalyptra? or Dictyocysta?	51 1/2 / 69 1/4
Flustrella concentrica? Ehr.	48 3/4 / 70
Encyrtidium? nearly touching last on N.E.	"
Encyrtidium	47 / 67 1/4
Carnutella Atlantica S.W. of last	"
Haliomma good one with spines 2 specimens	45 3/4 / 64
Encyrtidium? S of last	"
Encyrtidium cribrosum	45 3/4 / 65 1/2
Coscinodiscus good one	44 3/4 / 70 1/2
Ceratospyris? or Plectopyris?	44 1/2 / 61 1/8
Coscinodiscus	41 / 66 1/2
Orthochopalum spongiosum? B	41 / 70

Seen but not recorded
fragt. of Halicalyptra Petasus

No. 721

Berryman No 20 d natural state 52° 01' N 17° 06' W 1905 Feb

No. 722

Berryman No 20 d' with acid heaviest parts 52° 01' N 17,06' W 1905 Feb.

Spongolobus laxus B	46 3/4 / 74 3/4
Pumice	53 3/4 / 69
Encyrtidium lineatum? granulated	53 / 74 3/4
Encyrtidium	52 1/2 / 64 3/4
Podocyrtis Berrymanii	51 1/2 / 73
? Cadium? new dram touching a small Cosc. excentricus	51 1/4 / 75 1/4
Halionma laxus B	50 3/4 / 70
Podocyrtis Aegles broken	48 1/2 / 68 1/2
Obsidian?	47 1/2 / 69
Encyrtidium	47 3/4 / 67
Halionma opposita B.	47 / 68 1/2
Pumice	42 3/4 / 71 3/4
Spongolite	42 / 74 1/2
Cadium tenuistriata? B	42 / 73
Encyrtidium	41 / 72 1/4

No. 723

Berryman No 20 c with acid 52° 01 N 17° 06′ W 1905 Feb

No. 724

– Berryman No 20 é with acid bottled first " " "

No. 725

Berryman No 21 a ~~n~~ natural date 52° 05′ N 16° 05 W′ 1518 Fatt

No. 726

Berryman No 21 b. silt and heaviest part 52° 05' N 16° 05' W 1518 Fath

Spongodiscus mammbriatus B.		56 3/4 / 73
Coscinodiscus		62 1/4 / 71 3/4
Cadium marinum		60 1/4 / 71
Haliomma		58 1/2 / 70 3/4
Spongodiscus elliptiens ?		55 3/4 / 72 1/2
Pinnoce		56 1/4 / 70 3/4
Cornutella Atlantica		55 1/2 / 68 1/4
Carposcanium		55 / 79 3/4
Flustrella concentrica ?		52 3/4 / 65 1/4
Enodia gibba		51 1/4 / 74
Haliomma	small	50 / 72 1/4
Cornutella fiscella	good one	49 1/2 / 64 1/4
Halicalyptra ?		49 1/2 / 72 1/2
Cenosphaeria ? uniformis B	new	49 3/4 / 65
Coscinodiscus borealis ? B		49 / 75 1/4
Cenosphaeria	like pollen	43 3/4 / 72

No. 727

Berryman No 21 c light parts, natural state 52° 05' N 16° 05' W 1518 Fath

No. 128.

No. 728

1518 ft

Berryman No 21 d with acid, heavy part 52°05' N. 16.05 ?

Cadium marinum! B coarse striae about 12 seen 46 1/2 / 26 1/4

Dictyophimus? 46 1/2 / 23 3/4

Haliomma 46 3/4 / 76 3/4

Haliomma 46 / 71

Orthorhopalum Spongiosum B } 46 / 75 1/4
+ Halicalyptra? Mangji }

Haliomma 46 / 78

Forms seen but not recorded

Carmtella profunda, Atlantica,

Spongodiscus ellipticus

Histiastrum biceps

Enodia gibba, common

Cosc. excentricus

Encystidium

Ceratospyris parva? B. 43 3/4 / 74 1/4

Carpocanium? 44 / 83 3/4

Haliomma opposita B 43 / 75 1/4

Plectrospyris? 42 1/2 / 74 3/4

41 / 66 1/2 Podocystis ?? drawn like No 14 same slide 41 / 66 1/2

Coarse net work of Sponge? 39 1/2 / 74

? 39 / 66

Diploneis didyma Ehr. 39 / 73

No. 728

Berryman No 21 d with acid, heavy part 52° 05′ N 16° 05′ W 1518 fath

1	Flustrella	37/71
2	Crystal of ? small greenish	65 1/2/77
3	Carnutella profunda	69 3/4/71 3/4
4	Coscinodiscus	64/62 1/4
5	Carnutella Atlantica B	63 1/4/67 1/4
6	Pterocodon ? new	61 1/2/78
7	Spongosphaeria laxa B	61 1/4/70 1/2
8	Cadium ? new ? faint S W of black spot	60 1/2/72 1/2
9	Encystidium new ? with contracted orifice	61 1/4/74 1/4
10	Cenosphaeria	58 3/4/66 1/2
11	Cadium tenuistriata B. fine striae	58/63 1/4
12	Coscinodiscus	57 1/4/79 3/4
13	Crystal small greenish	55 3/4/60
14	Podocyrtis ?? new drum compare with a supposed Cadium	55 1/2/27 1/2
15	Podocyrtis Berrymani	55 1/2/25 1/4
	Orthochosalum spongiosum B	55 1/2/70 1/2
	Encystidium	54 3/4/67
	Spongeolite	54 3/4/24
	Haliomma opposita	54 3/4/78
	Spongodiscus mammbriatus B good one	54/80 1/4
	Carnutella Atlantica near last	54 1/4/28 3/4
	Haliomma	53/80 3/4
	Carnutella Fiscella B	53 3/4/81
	Ceratospyris new ? N. E. of Haliomma	53 1/2/81 1/4
	Halicarya	52 3/4/75 1/2
	Carnutella Atlantica B	
	Spongiolite whaled lineling last	53/71 1/4
	Podocyrtis Berrymanni	52 3/4/80 1/2
	Spongiolite whaled	52 1/2/81 1/4
	Haliomma	52/73 1/4
	Haliomma dfl. species	52/71 1/2
	Podocyrtis Berrymanni	51 3/4/62 1/2
	Cenosphaeria like pollen	52/62 3/4
	Halicalyptra ? } Maurgi	48 3/4/81 1/4
	Dictyocysta ? }	
	Eucodia gibba B	48 1/2/70 1/2

No. 729
Berryman No. 21 e with acid lightest part 52° 05′ N. 16° 05′ W. 1518 Fath.

No. 730
Berryman No. 21 f, with acid lightest parts " "

No. 731
Berryman No 22 a natural state 52° 03' N 15° 02' W 410 Fath

No 732
Berryman No 22 b, Right foot natural state " "

No. 733
Boorman No 22 c with acid heaviest part 52°03 N 15°02 W 210 Fath

No. 734
Boorman No 22 d, with acid lightest part " " "

No 735
Berryman No 23 a natural state 51° 52′ N 13° 16′ W 410 Fath

No. 736
Berryman No 23 b, light part " "

No. 737
Berryman No 23 c with acid, heaviest part " "

No. 738
Berryman No 23 d with acid light part " "

No. 739
Berryman No 24 a 51°54'N 12° 27W 717 Fath

No. 740
Berryman No 24 b, light part " " "

No. 741
Berryman No 24 c with acid light part 51° 54' N 12° 27 W

No. 742
Berryman No 24 d with acid, heaviest part

Podocystis Stegles fine one $\frac{444}{75}$

Nothing else worth recording

Record of position of objects on slides
Fossil Infusoria from California &c
N. B. ~~FB~~ go with the "Microscopical Collection"
Fossil Infusoria

California

first series

Monterey. California (page 1. to 20)

Infusorial Stratum

Record of Slides — Dec. 1855

~~2d Series~~

Tulare Co. p. 45 et seq.

San Luis Obispo p. 57 et seq.

Suisun Bay p 63. et seq.

No. 743 No 1. Monterey

1 $\frac{44}{25\frac{1}{2}}$ Arachnodiscus Caporiens — small one

2 " Encyrtidium lineatum?

3 $\frac{45\frac{1}{2}}{85\frac{1}{2}}$ Grammatophora [illegible]

4 $\frac{55}{24\frac{3}{4}}$ Denticella

5 $\frac{62}{60}$ Encyrtidium lineatum?

6 $\frac{57\frac{1}{2}}{26\frac{3}{4}}$ Triceratium

7 $\frac{57}{63\frac{1}{2}}$

8 $\frac{56\frac{1}{4}}{64}$ Rhizosolenia [illegible]?

9 $\frac{43\frac{1}{2}}{70}$ Encyrtidium

No 744 No 2. Monterey {large mass by edge & top of glass

$\frac{42}{84}$ Radiate disc, nest

$\frac{37\frac{2}{3}}{98}$ Globigerina?

$\frac{35\frac{2}{3}}{95}$ Encyrtidium, touching yellow thread

2

No 745

Monterey A. lower stratum

1	53/62	Arachnodiscus Japonicus?
2	49½/26½	Entopyla
3	55½/24½	Mesocena hexagona B.
4	37/66⅞	[illegible]
5	38/27¼	Dictyocha Binoculus Ehr.
	55¼/72¾	~~Eucinoscyphis?~~ [illegible] belongs to 4?

No. 746 Monterey B. lower stratum

1	61½/72½	Aulisca ~~[illegible]~~? caelatus B
2	56¼/80¼	?
3	48/68⅞	Goniothecium Edonletta?
4	43½/73⅞	Cladomphalus elegans B. central portion

No. 747

Monterey C. lower stratum

1	55¼ / 17⅞	Cladomphalus elegans B.
2	64⅞ / 74¾	Eucyrtidium
3	64¼ / 29¼	Sethostichum amphioxys B.
4	62 / 78¼	" "
5	49 / 28¾	Lithecium Rogersii Ehr
6	40 / 73¼	Cladomphalus elegans

No. 748 Monterey D.

No. 749 Monterey E. upper stratum

1	54 / 27¼	Antacodiscus Oregonus ? B
2	66¾ / 69⅞	Mesocapsa alternata B.
3	"	Chaetoceros SW of preceding
4	"	Mesocena hexagona B. N.E " "
5	63½ / 68¼	Hyalodiscus broken
6	59 / 73⅞	✓ Mesocapsa alternata B.
7	56½ / 69½	Eucyrtidium
8	"	Stemmatophora serpentina S.E of preceding
9	"	" straight ribbed

No. 750 Monterey F. lower stratum

1	54¼ / 80¼	Cladomphalus elegans B. broken
2	50 / 77½	Rhizosdenia formata B
3	66¾ / 67⅞	Cladomphalus elegans B "

No. 751 Monterey G, lower stratum

1	50⅛ / 28	Halicalyptra? Tordai B
2	69 / 75⅞	Eucyrtidium
3	53⅞ / 73½	Amphitetras Wilkesii? small
4	33¼ / 35	Denticella tridentata? Ehr.

No. 752 Monterey H. lower stratum

1	73 / 86¼	Rhizosdenia? duplex B
2	70 / 85⅞	Arachnodiscus Ehrenbergii
3	59 / 74¾	✓ Halionema producta B.
4	56 / 62⅛	✓ Eucyrtidium lunatum? Ehr
5	34 / 77¾	Amphitetras Wilkesii B
6	63 / 75¾	Grammatophora
7	43¼ / 30	Eucyrtidium not to be drawn
8	41 / 27¼	Coscinodiscus
9	40¾ / 90½	✓ undonatus B side view
10	34⅞ / 71½	Rhabdonema adriatica?
11	✓ 32½ / 25⅓	Entopyla new?
12	32 / 24½	Actiniscus new? N. B of a Coscinodiscus

No. 753 J Monterey, lower shelves

1	65/74¼	Arachnodiscus Ehrenbergii
2	37/80¼	Podosphenia: with 4 to drawn
3	56/81¾	
4	v 52⅛/22	Xanthiopyxis serrata B.
5	51⅛/64¼	Cladomphalus elegans B, central portion
6	51/83¾	" " " "
7	45¾/81⅓	Dictyocha

No. 754 Monterey J. lower shelves

1	50¼/68⅛	Xanthiopyxis serrata B.
2	38¼/62⅛	Cladomphalus elegans B
3		
4	39½/66¾	Aulisca ~~[illegible]~~ ~~[illegible]~~ caelatissa B.
5	v 65½/75¼	~~[illegible]~~ Denticella tridentata? Ehr
6	52⅞/60¾ 60¾	Polycistina with a hair
7	35¼/77	

No. 755 Monterey K. lower stratum

1	72½ / 75⅓	Hyalodiscus	fine one
2	52½ / 68	Arachnodiscus	broken
3	35¼ / 23⅔	Triceratium Wilkesii B	"
4	73 / 67	Xanthopyxis serrata B	oblique view
5	60 / 71½	Denticella bidentata? Ehr	side view
6	53¼ / 74⅛	Podosyrtis?	
7	51½ / 26¼	Eucystidium	
8	50¼ / 21	"	
9	48½ / 65¼	Spongodiscus densus B.	
10	47 / 68½	Gallinella iridescens	
11	44½ / 79	Oncodiscus aculeatus B	
12	41¾ / 65	Coscinei	
13	29½ / 27¾	Heliodiscus radiatus	
14	27½ / 64¼		

No. 756 Monterey L.

40 / 72½	Eucyrtidium inornatum		drum
70½+ / 83	Schizopilium [illegible]	[illegible] well	in a curved SW of a Dyxdicula spinulata
40¼ / 72¼	Eucyrtidium longidulum ?	B	

No. 757 Monterey M.

1	72 / 69¼		
2	71¼ / 28¾	Sirivella ?	
3	68½ / 74¼	Aulisicus granulatus B	rare
4	69¼ / 69¼	Xanthiopyxis ?	
5	67¼ / 82¼	Cladomphalus elegans B.	
6	65½ / 77¾	Aulisicus ~~sacchatus~~ B.	
7	62 / 73⅛	Mesocapsa alternata B	good one
8	61 / 78⅓	Entopyla	broken
9	~~63⅓ / 76¼~~		~~pinacida and radiate dopi~~
10	55⅞ / 80+	Aulisicyclus	pretty one
11	54 / 87½	Mesocapsa	
12	52 / 23¼	Entopyla	
13	48¾ / 68¼	Denticella bidentata Ehr	big one
14	49⅞ / 69¾	Aulisicus ? quadripes B	, near a curved spicule ⊗ ⟶ small
15	49 / 60½	Euposicus ?	2 feet
16	26¼ / 80⅞	Aulisicus	

No. 758 Monterey N.

1	74/27½	Eupodiscus ?	2 feet
2	72/27¼	Actinocyclus	
3	70¾/22	Dictyocha tricantha Ehr	
4	68⅞/80¾	Pyxidicula [illegible]	
5	63¼/79⅛	Dictyophimus, broken but good	
6	"	head of above?, close by	
7	42/64¾	Cladomphalus elegans B.	
8	40⅞/87½	Grammatophora tropica? Kg	large one, side view
9	41¼/89	Navicula aspera Ehr	

No. 759 Monterey 6

1	68/84¾	Cladomphalus elegans B	
2	73/88	?	small
3	71/64	Coscinodiscus clathratus, Ehr	good one
4	68½/67½	Aulacodiscus	two bottled
5	69⅛/56	Entopyla	dirt third one
6	56½/70⅞	Arachnodiscus Ehrenbergii B.	
7	"		prickly disc
8	57/30¼	Cladomphalus elegans B	
9	"	Systephania	spirit above the last, showing spines well
10	51¾/75¼	Denticella tridentata? Ehr	with two more cells.
11	52/74¼	Podosira	good one, broken
12	50½/61½	Amphitetras Wilkesii H. & B.	
13	50¾/43½	Xanthiopyxis serrata B.	showing central spine
14	63⅞/22½	Cladomphalus elegans B.	outline nearly perfect
15	"	Biddulphia? Sinensis B	just above the last, on N.W.
16	45½/65⅞	Denticella tridentata? Ehr	oblique view
17	"	Aulascus	touching the above
18	46/31¾	Denticella tridentata? Ehr	top view
19	39/93	Coscinodiscus Argus B.	
20	38⅞/63½	Xanthiopyxis serrata B	
21	37⅞/80½	Eucystidium lineatum? Ehr B. hemidiscus	
22	34⅓/64¼	Entopyla	oblique view
23	33⅔/27⅛	Denticella tridentata Ehr	side view
24	31½/93⅛	Eucystidium	
25	30⅛/85½	Diploneis Crabro Ehr.	
26	27/94¾	Arachnodiscus Ehrenbergii B.	small

No. 760 Monterey P. [illegible] drahm

1	70/79	Denticella bidentata? the good one
2	42½/74¾	Amphiletias Wilkesii B. & H
3	40½/23	" ?
4	44½/29⅓	Xanthopyxis [illegible] near
5	64/67½	punctata disc
6	44/61¼	Arachnodiscus Ehrenbergii
7	35¼/65¼	Rhizosolenia punctata B.
8	35/80⅞	Eucyptidium
9	36/70⅞	Entopyxis [illegible] with middle plates
10	34½/60½	Cladomphalus elegans B.

No. 761 · Monterey Q. ~~lower stratum~~ large mass

1	64 3/4 / 72 7/8	Hyalodiscus	with large umbilicus
2	62 1/2 / 67 7/8	Denticella ?	small
3	61 1/2 / 27 1/2	Aulisicus	small, close to a Coscinodiscus
4	47 / 61	Chaetoceras	Hardwichianum
5	46 / 23 1/2		
6	45 / 67 1/8	✓ Eucyrtidium	deformed ?
7	53 1/2 / 73 3/4	Cladomphalus elegans B.	
8	49 / 73 7/8	Pinnularia	
9	65 1/4 / 71	✓ Chaetoceros subjunctum B	α
10	✓ 64 / 69 1/4	Dictyophimus ?	fragment
11	58 1/4 / 29 7/8 ✓		small spinose discs elliptical
12	53 / 75 1/4	Coscinodiscus	

No. 762 · R Monterey, lower stratum

49 3/4 / 62	Aulisicus	new ?
41 / 72 1/4	Haliomphalus	fragment

No. 163 Monterey S. lower bathum

1	68½ / 74¼	~~Aulisc~~ Eupodiscus? punctatus B.	inlk 2 fed
2	64 / 78	Campylodiscus	
3	61 / 67¼	Cladomphalus elegans B.	10 rayed
4	59½ / 75¾	" "	8 "
5	56½ / 23	" "	12 " in a list of Coscinodiscus
6	"	Coscinodiscus	E of above
7	55¼ / 25	Aulisc?	
8	50½ / 25	Dictyophimus?	broken
9	46½ / 75¾	Cladomphalus elegans B.	
10	45 / 72	Amphitetras Wilkesii	

No. 764 Monterey ? lower stratum

1	66¼ / 69¼	Entopyla	central plate
2	"	Eucyrtidium	E of above
3	66¼ / 26	Mesoaplia minima B	
4	66¾ / 64⅞	Rhizosolenia	
5	61 / 91	Entopyla	showing the curvature
6	58¾ / 64⅞	Lithopera ? armata B.	new
7	57¼ / 66	Pterocodon ?	seen obliquely
8	45¾ / 73⅓	Camptylodiscus	small
9	43¾ / 62¾	Cocconeis	new
10	42 / 85⅔	Eucyrtidium	
11	40 / 77⅔	Eucyrtidium parvulum B.	new
12	39¼ / 91	Diploneis Corubro Ehr	
13	42¼ / 67	Isthmia obliquata	, large fragment
14	72¼ / 77¼	Coscinodiscus ~~[illegible]~~	crassus B.
15	62¼ / 66	Eucyrtidium cinctum Ehr	

No. 165 U Monterey lower stratum

1	72½ / 84½	Entopyla, central portion	good
2	70 / 63½	Diploneis didyma Ehr	
3	70¾ / 85⅔	Mesoptla alternata B.	
4	70 / 29	Pinnularia ? Lyra	
5	68¼ / 62½	Eucyphidium lineatum ? Ehr	
6	66½ / 24¾	Cladomphalus elegans, B	a fragment just over a large Coscinodiscus
7	66⅞ / 25⅞		small Polycistina
8	65 / 82	Cyclotella	large one
9	63 / 73¾	"	with umbilicus
10	62½ / 21⅞	Stylodictya quadrata B.	new
11	60 / 80⅓	Mesocena hexagona B.	
12	"	" "	with two cells near margin
13	50 / 70¾	Denticella tridentata ? Ehr	side view
14	48 / 75¾	Coscinodiscus	new
15	47 / 63½	Aulisca ??	
16	45¼ / 71½	Arachnoidiscus Ehrenbergii B.	small
17	45 / 66½	" "	"
18	44¼ / 21	Actiniscus	good one
19	41¼ / 20	Cladomphalus elegans, B.	showing - E of a broken ring
20	38⅞ / 67¾	Aulisca	small one
21	35½ / 67¼	Podocystis	fragment
22	33⅞ / 67	Several species of Dictyocha	near the Aulisca

No. 766 · V. Monterey, Lower Stratum

1.	68½ / 73½	Pumularia Lyra?	
2	68 / 81	Cocconeis	
3	65 / 82	Cornuletta	
4	63½ / 88	Cladomphalus elegans B.	obscure
5	64¼ / 81	Aulacodiscus?	with two feet
6	52½ / 27¼	Cladomphalus elegans B	near a lot of Coscinodiscus } ??
7	52½ / 78¼	" " "	central portion
8	49¾ / 77⅔	Cornuletta	male
9	49 / 77¾	Cladomphalus elegans B	
10	41¾ / 22½	Aulisicus	
11	"	Cladomphalus elegans B.	just below the above, obscure.

No. 767 Monterey W

1	46 / 80 1/8	Aulisca	
2	45 / 60 3/4	Trucerabium : Sitylium ?	small
3	41 3/4 / 82 1/8	Periptera :	 small E. 1 a spicule

No. 768 Monterey X

1	62½ / 54¼	Navicula ?
2	35 / 67¼	Coconeis ? magnifica B
3	63½ / 62½	Cladomphalus elegans B
4	37½ / 74	" " "
5	39¾ / 69¼	Aulis cus
6	35¾ / 67½	Denticella bidentata Ehr
7	"	Cladomphalus elegans B. just S.E. of above
	62½	[illegible]
	68½	
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	
	[illegible]	[illegible]
	78	
	62 / 60	[illegible]
[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	84	
	78	
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	3	
	8	
	[illegible]	[illegible]
	[illegible]	[illegible]
	65	

No. 769 Monterey 9 (a little dust and other accidentally introduced)

1	35/61	Aulisc. quadrupes B.	Small disc, like an Aulisc. with 4 feet
2	56¼/80¾	" " " "	same seen obliquely
3	41⅞/66¾	Arachnoidiscus parvus B. ~~Aulisc.~~	broken but good
4	35½/26½	Pinnularia?	like P. ornata? B
5	35/68	Triceratium Wilkesii? H & B.	small one
6	"	Eupodiscus?	2 feet
7	34/71+	Dictyocha	large one
8	46½/80	Cladosphaeus elegans	fragment poor
9	46¾/80⅞	Grammatophora	large, side view, broken but good

No. 770 Monterey Z

1	67¼ / 69¼	Goniothecium Rogersii Ehr
2	60¾ / 29¾	Actinocyclus
3	60¾ / 61¼	Xanthiopyxis serrata B. good one
4	57¼ / 81	Entopyla
5	55 ¾ / 72¾	Eucyrtidium new
6	53 / 69 2/3	Helio-discus
7	38 / 61½	"
8	32¼ / 68¾	Cladomphalus elegans B.
9	31½ / 72½	Cornutella clathrata Ehr 4 la drawn
10	49 7/8 / 66 7/8	Cladomphalus elegans B.
11	"	Zygicerus? umbonatus B. A E E/ above
12	45 / 25	?
13	51 / 63	Lepanodiscus Antaio-discus? with only one foot

No. 771 Monterey A'

1	57¼ / 60	Oncodiscus apiculatus B.
2	46¾ / 72	Coscinodiscus gemmifer? Ehr.
3	v 55½ / 72⅞	Xanthiopyxis — See No 12
4	55¾ / 69¼	Mastogonia? fracelexta? Ehr — mass a ring of Sulcinella
5	56 / 29⅛	Zygoceros? umbonatus B.
6	55¾ / 23¾	Denticella bidentata Ehr — top view
7	50 / 20¼	Mesocapta alternata B. — all alone
8	49 / 64½	Denticella bidentata Ehr — oblique
9	49 / 26¼	Polycistina with a spine
10	42½ / 74	Denticella bidentata Ehr — oblique
11	42 / 82¾	Arachnoidiscus Ehrenbergii B. — broken ½ of a large one
12	v 43½ / 60¾	Xanthiopyxis — side view See No 3
13	40¼ / 65	Eucyrtidium
14	"	" lineatum? Ehr
15	40 / 70	Cocconeis
16	39¼ / 69½	Denticella bidentata Ehr — side view
17	39¼ / 68½	Coscinodiscus oculus-iridis Ehr — good one
18	37⅞ / 69¾	Grammatophora triforia? Rg — strong ribbed
19	45⅛ / 29½	Pleurosigmis?
20	45 / 77¼	Actiniscus — seen obliquely, good
21	"	Coscinodiscus oculus-iridis Ehr N.E. of above

No. 772 Monterey B'

1	63 / 76¼	Coscinodiscus oculus-iridis Ehr
2	62¼ / 71	Trachnodiscus Ehrenbergii Brkm
3	62 / 79	Coscinodiscus oculus-iridis Ehr
4	"	" like C. gigas, with smooth centre
5	59¼ / 78¼	Oncodiscus aculeatus B
6	57½ / 61	Eucyrtidium new
7	53½ / 82¼	Lithispera? aspera B new
8	52¾ / 76½	Cladomphalus elegans B. fine one
9	"	Dictyophimus? fragment E of above
10	50¾ / 73	Denticella tridentata Ehr top view
11	47¾ / 81¼	Cocconeis large one
12	45¼ / 81¼	Small iridescent disc
13	42 / 80⅛	Eucyrtidium lineatum? Ehr
14	43 / 80	Scaphidium amphiorxys B. new gen.
15	41¾ / 28¾	Denticella tridentata Ehr side view
16	45¼ / 82⅞	Grammatophora tropica? Ky short silbed
17	31¼ / 73	Oncodiscus apiculatus B.

No. 773 Monterey 6'

1 ✓	65 / 95¾	Cornulita [illegible]	
2	63 / 29½	Cladomphalus elegans B.	good but broken
3	53 / 23	Aulisicus	
4	50 / 74⅛		iridescent disc
5	41½ / 83¼	Amphitetras Wilkesii !	small
6	39 / 20½	Podocyrtis	fragment, large one,

Monterey D'

No. 774 Monterey E' mounted but not recorded

22

No. 775 Monterey F'

No. 776 Monterey St

Hyalodiscus Californica

No. 777 Tulare Co. California

Slide A

No 1	71¼ / 71¾	Arachnoidiscus Ehrenbergii B.	good one
2	66 / 63½	Gonothecium Rogersii Ehr	at lower end of large yellow spot
3	67 / 25¾	Xanthopyxis ?	top view
4	65¾ / 22½+	Eucyrtidium lineatum Ehr ?	
5	64½ / 77	Mastogonia ? praetexta ? Ehr oblique	just above two horns
6	63⅛ / 73¼	Eucyrtidium lineatum ? Ehr	good
7	63+ / 29½	Mesoaplia alternata B	
8	59 / 19⅞	Actinoptychus	8 rays
9	55 / 71⅔	Goniothecium Odontella Ehr.	
10	54 / 86¼	Xanthiopyxis serrata B.	N.W of a large dark mass.
11	" "		N E of last
12	53 / 81½	Arachnoidiscus Japonicus O	
13	49½ / 21	Actinoptychus	9 rays good
14	48 / 23¼	Mastogonia ? praetexta ? Ehr	side view
15	45⅔ / 86	Grammatophora	
16	36+ / 66¾	Denticella tridentata Ehr	side view

No. 778

Tulare Co. California B.

1	68½ / 78¾	Mastogonia praelsta? Ehr	side view	} Low drawn
2	68 / 65¼	" "	top view	
3	66 / 69⅛			like an Aulis cus but with 4 feet, E of Dictyopyxis apiculata
4	57¼ / 26¾	Grammatophora [illegible]? Ehr		
5	50 / 77¾	~~Pyxidicula?~~ ~~[illegible]~~ ~~[illegible]~~ ~~Ehr.~~		
6	"	Cocodiscus elliptical B		
7	58¾ / 82¼	Genesthecium? Tetragramma?		just E of a large dark mass
8	52¼ / 69	Cornutella clathrata B profunda Ehr.		
9	30⅞ / 69¼	Denticella bidentata Ehr.	top view	
10	30¼ / 26½	Cocodiscus elliptical B.		ellipse

No. 779 Tulare Co. California

Slide C.

63/69 3/4 Coscinodiscus oculus-iridis broken on S.E. side

66 1/8/70 " borealis

66/29 Mastogonia praetexta

65 3/4/29 Scaphidium amphioxys? S.E. of last

65 1/2/70 1/2 Triceratium small

64 1/4/88 Rhizosolenia ornithoglossa? Ehr.

64 1/2/65 Actinoptychus 14 rays

64 1/2/29 1/4 Mastogonia praetexta top view

65/85 Pinnularia

58 1/4/24 Pinnularia lyra?

49/65 " "

40 3/4/71 1/4 Actinoptychus 14 rays

No. 780 Tulare Co. California
Slide D.

55 1/4 / 62 Air bubble)
52 1/2 / 23 Hetrodiscus between 2 Actinoptychi
45 / 30 1/2 Actinoptychus 22 rays
40 / 66 Rhizosolenia ornithoglossa?

Tulare Co. California
No. 780 1/2 Slide E.

No. 781 San Luis, Obispo, California

Slide A

1	66 1/8 / 66 3/4	Grammatophora	edge view	
2	62 7/8 / 76 1/4	"	front view	good.

No. 782 San Luis, Chispo B

1	64 3/4 / 65	Arachnodiscus Japonicus	
2	56 / 68 1/4	Actinocyclus	
3	53 / 77	Mesocapta alternata B.	
4	50 1/4 / 68 1/4	Grammatophora [illegible]	stout ribbed
5	36 / 65 1/4	Dictyophimus?	in a lump.

No. 783 San Luis, Obispo C.

52 1/8 / 60 3/4 Rhabdonema adriatica
" Coscinodiscus
" Mesocena hexagonalis B
46 7/8 / 63 1/4 Gallionella ? with rays
43 1/4 / 68 1/4 Rhabdonema adriatica
42 3/4 / 75 1/4 Aclinocylus many rayed 23 rays
37 7/8 / 75 3/4 Arachnoidiscus Japonicus
" Gallionella ? with rays just E. of last
37 3/4 / 78 Rhabdonema adriatica
33 1/2 / 77 1/2 Arachnoidiscus Japonicus Ehr.
29 1/2 / 77 1/8 Amphitetras (ornata ?) very small near two (adiscus) Coscin
34 / 71 3/4 Xanthiopyxis serrata
51 3/4 / 82 3/4

No. 784 San Luis Obispo. D.

65 / 62 3/4 Rhabdonema adriatica E.
" Mesocena hexagonalis, deformed ? N. E. of last
57 3/4 / 84 Dictyophimus ?
54 3/4 / 69 Denticella tridentata
49 / 62 7/8 Arachnoidiscus Ehrenbergii B. a fragment
48 1/2 / 60 1/4 Diploneis crabro
45 7/8 / 67 3/4 Cyclotella flava ? B large one
40 3/4 / 61 Mesocena ? polygonalis B with many knots
37 3/4 / 82 7/8 Isthmia obliquata good piece
62 / 85 1/4 Triceratium ? small

No. 785 San Luis Obispo E.
(by candle light)

5/69 Amphitetras Wilkesii?
45 1/8 / 62 1/4 Encystidium

No. 781 San Luis Obispo F.

51 1/2 / 144 3/4 Arachnoidiscus Japonicus
39 1/4 / 80 Podocystis frag.
35 1/2 / 61 3/4 Encystidium lineatum
33 / 26 1/8 Entopyla australis
61 / 28 Haliomma

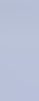
No. 787 San Luis Obispo G.
(by edges of glass)

34/99 Cocconeis fine one
8 1/4 / 105 1/2 Arachnoidiscus Japonicus

No. 788 San Luis Obispo H.

39 1/4 / 67 1/4 Pinnularia one valve

No. 789 - Suisun Bay, California, &c
Slide A

1	65¼ / 80⅞	Coscinodiscus		
2	66 / 69¼	Rhizosolenia ?		
3	64 / 84¾	"		
4	61 / 72	Hemiaulus:		stands alone
5	57½ / 65⅛	Goniothecium Monodon Ehr		
6	55 / 75	Goniothecium Rogersii Ehr.		
7	"	Xanthiopyxis		just below the last
8	51¼ / 73⅛	Rhizosolenia:		like No 2
9	51¼	Oncodiscus apiculatus B.		
10	"	Flustrella ?	small one E of last	
11	49¼ / 85¾	Coscinodiscus Lunae? Ehr		small iridescent
12	50 / 20½	Mastogonia		partly obscured
13	47½ / 71¾	Eupodiscus ?		with two feet
14	42½ / 73¾	Xanthiopyxis		
15	36¾ / 73⅓	Rhizosolenia punctata B		the punctate one good
16	32¾ / 30½	Spicule		three edged and branched.

B

No. 790 Suisun Bay, B

1	30 / 29 1/8	Mastogonia	
2	"	Goniothecium	
3	56 1/2 / 23 1/4	Hemiaulus	
4	56 / 69 3/4	Dicladia? clathrata Ehr	N E of a large dark mass
5	53 1/2 / 60	Goniothecium Monodon Ehr.	
6	57 1/8 / 63 1/4	Goniothecium Odontella Ehr	
7	50 / 23 1/4	Dicladia clathrata	N E of a Coscinodiscus
8	49 / 24 = 2 ~~4~~	Goniothecium Monodon Ehr.	
9	46 / 89 1/2	Dicladia? clathrata	
10	"	Goniothecium	E of above

No. 791 Suisun Bay California
Slide C.

1	64½ / 62⅞	Oncodiscus ellipticus B	
2	63⅞ / 63¾	Hemiaulus	
3	64⅛ / 75⅔	Goniothecium Rogersii Ehr	
4	62⅞ / 66⅓	Goniothecium! ——— ?	
5	62 / 71⅛	Coscinodiscus gemmifer?	iridescent, radiate
6	57⅛ / 75¾	Goniothecium Cedrelletta Ehr	side view, oblique
7	57 / 26¾	" undulatum B	new
8	55 / 84½	Mastogonia	
9	"	Goniothecium	
10	55¼ / 62½	Goniothecium undulatum B	side view good
11	54¼ / 85	Eupodiscus radiatus ? B.	fine one
12	"	Goniothecium Monodon Ehr.	N.E of Cost
13	50½ / 61½	Peristephania	? = Rhaphanodiscus lineatus Ehr Lin California
14	49 / 75¼	Triceratium interruptum B	fragment of a large one, new
15	41 / 75½	Triceratium Favus Ehr	
16	49 / 74¾	Peristephania lineata B	good one

No. 792 D

Smisum Bay Cala.

58/64 1/2 Rhizosolenia punctata B

" Decladia? clathrata just under it

No. 793 Smisum Bay, Calif. E.

74 3/4 / 73 7/8 ? very small, stands alone, near edge left by —?

73 7/8 / 82 1/4 Rhizosolenia

73 1/4 / 71 1/4 Actinoptychus 15 rayed 5 elevations

65 1/8 / 73 Raphoneis rhombus Ehr.

64 1/4 / 81 3/4 Goniothecium 2 species

55 3/4 / 29 1/4 Goniothecium Menodon

55 2/3 / 69 3/4 Three edged spicule, branched

52 / 80 1/2 Eupodisca ? two feet

44 3/4 / 84 1/4 Peristephania lineata Ehr. showing teeth well

Continuation of Slide Catalogue
of the Pailey Collection
by Miss Washburn.

Cat. No. 794 Bodego Bay, Cal.a St.

61 1/4 / 70 1/3 Anlacodiscus crux? 12 feet.

57 1/2 / 74 3/4 Actinoptychus superbus

57 1/4 / 66 7/8 Ceratanlus

55 5/8 / 13 3/4 Anlacodiscus crux?

54 / 23 3/4 Tricerratium Wilkesii

60 1/4 / 67 1/3 Anlacodiscus Oregonus 13 feet

59 3/4 / 70 Actinoptychus

63 1/4 / 75 1/4 Ceratanlus

59 / 63 1/8 Cocconeis

No. 795 Bodego Bay B.

42/77 1/2 Arachnoidiscus

52 1/2/65 1/4 Coscinodiscus near Isthmia obliquata

43/78 1/2 Arachnoidiscus

38 1/2/71 3/4 Coscinodiscus

36 3/4/71 3/4 Isthmia obliquata

No. 796 Bodego Bay C.

55 1/4/72 Cyclotella? } large disc minutely
Hyalodiscus? } = cos.

54 3/4/76 2/3 Hyalodiscus subtilis

50 1/4/73 Aulacodiscus Oregonus

46 1/4/75 1/4 " " Small

48 1/2/66 2/3 " " 2 specimens

49 1/2/66 " " oblique

No. 797 Bodega Bay D.

on Card ⅛. thick, with paper centre, by 1/2 inch objective

68 7/8 / 67 Arachnoidiscus Ehrenbergii Bailey.

68 1/2 / 23 1/4 Aulacodiscus Oregannus, obligne view

Elliptical ~~Basal~~ view of a fragment of Isthmia

64 3/4 / 23 Aulacodiscus Crux? + large projections

50 / 26 1/2 " " "

58 7/8 / 21 3/4 " Oregannus (small, 8' "

53 / 43 1/8 (53 1/2 / 43) Arachnoidiscus Ehrenbergii

36 3/4 / 26 3/4 Aulacodiscus 10 feet

52 1/2 / 62 Aulacodiscus Oregannus B. 12 "

42 1/2 / 22 1/3 " " 11 "

49 1/2 / 77 1/2 " " 9 "

49 3/4 / 41 (40 2/3) or 46 1/4 / 28 1/2 (46 1/2 / 28 7/8) " " 12 "

39 1/2 / 39 " " 13 "

41 7/8 / 32 1/2 " " 14 "

35 / 25 1/8 " " " "

39 3/4 / 26 1/4 " " 15 "

40 7/8 / 64 7/8 " " 16 "

44 3/4 / 78 7/8 Fragment of Isthmia looking like a Campylodiscus

45 / 82 1/8 Aulisens small

(31 1/4 / 24 error) Ceratulus large fragmts. horns wanting

39 / 24 (39 / 23 3/4) Aulacodiscus Oregannus B 10 feet.

50 / 26 Aulacodiscus Crux? obligne view

Hyalodiscus Californicus B. & Pipilialophora &

Grammatophora abundant C.S.

No. 798 Bodega Bay E. (Card B.)

51 7/8 / 43 1/8	Anlacodiscus	
39 3/4 / 61	"	
38 1/4 / 41	"	
41 / 69	"	
42 1/2 / 60 1/4	"	oblique
47 / 79	"	
48 1/2 / 78 1/8	Actinophaenia	(broken
54 / 62 3/4	Anlacodiscus	
57 3/4 / 46	"	small
44 1/4 / 72	Actinophaenia	(good one)

No. 799 Bodega Bay F.

Bodega Bay G. (missing)

No. 800 Bodega Bay H.

$\frac{44\,3/4}{86\,1/3}$ Aulacodiscus

$\frac{43\,1/4}{87\,3/4}$ Isthmia

$\frac{43\,1/4}{87\,2/3}$ Hyalodiscus $\left\{\frac{44}{80\,1/2}\right.$ $\frac{45+}{80\,1/4}$

$\frac{51}{88}$ Arachnoidiscus broken

$\frac{38\,3/4}{67}$ (66 3/4) Aulacodiscus Small one

" " Seen obliquely 30 1/4

$\frac{42\,1/8}{80\,1/2}$ Ceratauhus Californicus B.

No. 801 Slide I. (no label)

No. 802 San Luis Obispo. Cal.ia Slide J.

No. 803 San Rafael Cal. K.

No. 804 California Slide L.

No. 805 California Ne.

No. 806 California v.

No. 807 California v.

No. 808 California P.

No. 809 California Q.
Fossil Infusoria Marine

No. 810 California R.
Hyalodiscus

No. 811 Washington Territory
Slide S.

No. 812 Puget Sound Slide St.
Amphitilras
Cocconeis

No. 813 Puget Sound B.
$\frac{48\,3/4}{70}$ Amphitilras Wilkesii

No. 814 Puget Sound. C.

50 1/4 / 71 3/4 Amphitetras Wilkesii 59/61

50/70 Cocconeis C.S

54/70 Hyalodiscus Californicus B. C.S.

54 7/8 / 40 Arachnoidiscus Ehrenbergii

54 1/4 / 73 Cocconeis many ribbed

52/78 "

43/81 " C.S

50/83 "

No. 815 Puget Sound D.

$\frac{48\ 7/8}{61\ 1/8}$ Amphacodiscus Oregonus B.

$\frac{49\ 1/4}{76\ 1/4}$ Triceratium Wilkesii

$\frac{49\ 1/4}{74}$ Amphitetras Wilkesii

$\frac{53\ 1/2}{61\ 2/3}$ " "

$\frac{41\ 1/2}{75\ 1/2}$ " "

No. 816 Puget Sound E.

$\frac{58\ 1/2}{75\ 1/4}$ Cocconeis

$\frac{51\ 1/2}{82\ 2/3}$ Amphitetras Wilkesii B. $\frac{55}{65}$

$\frac{54\ 3/4}{66\ 1/8}$ " "

$\frac{57\ 3/4}{67}$ Arachnodiscus Ehrenbergii B.

$\frac{57\ 3/4}{81\ 3/4}$ Amphitetras Wilkesii
1 small one & fragmts. of large one.

$\frac{48}{72}$ Col. oculus-iridis

$\frac{47}{71}$ Cocconeis

$\frac{55}{67}$ " ? Species

No. 817 Puget Sound F.

42/70 1/4 {Amphitetras Wilkesii} 55/28 3/4

50 1/2 / 38 1/3 " "

61 1/2 / 40 Arachnoidiscus Ehrenbergii (broken)

50 / 64 7/8 Anlacodiscus Crux?

62 1/2 / 38 1/3 Odontella?

50 / 29 1/4 Hyalodiscus

37 3/4 / 25 3/4 Cocconeis n. sp.

No. 818 Puget Sound G.

48 1/4 / 41 3/4 Amphitetras Wilkesii 2 specimens

31 1/4 / 81 3/4 " "

37 / 82

No. 819 Puget Sound H.
Euphodiscus Oregonicus

No. 826 Puget Sound S.
Denticella

No. 821 Puget Sound J.
Denticella

No. 838 Lt. Williamson A. Chalk Cliffs Pit River

$\frac{6a}{72}$ Cocconeis praetexta

$\frac{6a}{72}$ " " axis horizontal

No. 839 Williamson. B.

No. 840 Williamson. C.

No. 841 Williamson D.

No. 842 Williamson E. 3 ft. below high water

No. 843 Williamson F.

No. 844 Williamson G. 12 fathoms

No. 845 Williamson H.

No. 846 Slide No 1. Dr. Riel

No. 847 Lt. McLellan No. 1

No. 848 McLellan No. 2

No. 849 McLellan No. 2a

No. 85 McLellan No. 4

No. 85 McLellan No 4a

No. 852 McLellan No. 6

No. 853 McLellan No. 11

No. 854 Oregon A.
Fossil Infusoria

No. 855 Oregon B.
Recent Infusoria St. George, Columbia R.

No. 856 Oregon C.

No. 857 Oregon D.

No. 858. Oregon E.

A.

No. 859 Gulf of Mexico. Lat. 28°52'N Lon. 83°17'W. 9 Fath.

No. 86 B.

Gulf of Mexico No. 1 24°44' N. 82°09' 10 Fathoms

45 / 69 3/4	Spinose globule	
54 1/4 / 69 1/2	Amphitetras ornata	54 1/4 / 69 3/4
61 3/4 / 71 3/4	Tricerat. favus ?	61 3/4 / 72 1/4
54 / 75 3/4	" "	54 / 76
53 1/2 / 80 3/4	" "	53 1/2 / 81
51 3/4 / 64 3/4	Biddulphia tridentata good	51 3/4 / 65
51 3/4 / 76 1/2	Triceratium favus ? side view	51 3/4 / 76 3/4
49 1/2 / 72	Spinose globule	49 1/2 / 72 1/4
48 / 70 1/2	Navicula ! lyra Ehr.	48 / 70 3/4
48 / 75 3/4	Diploneis didyma Ehr.	48 1/2 / 76
47 / 61 3/4	Triceratium setigerum top	47 / 61 1/2
46 1/2 / 65 1/4	Diploneis crabro ?	46 1/2 / 65 1/2
45 3/4 / 70	Biddulphia tridentata side good	45 3/4 / 70 1/4
43 3/4 / 71 1/4	Gallionella sulcata Column	43 3/4 / 71 1/2
41 3/4 / 81	Triceratium favus edge view	41 3/4 / 81 1/2
41 3/4 / 27 1/4	Amphitetras ornata good	42 / 27 1/2
40 1/4 / 71 1/4	Coscinodiscus	40 1/4 / 71 1/2
39 / 68 1/2	Actinoptychus senarius	39 / 69

No. 861 C.

Gulf of Mexico, No. 3. 24° 30' N. 82° 10' 12 fathms.

No. 862 D.

Gulf of Mexico. Not. Lat. 25° 13. Lon. 81° 22 14 fathms.

$\frac{47^{3}}{616}$ Camptylodiscus Stodgonii ? W. S. or N. S.

$\frac{47^{2}}{810}$ another valved at right angles

No. 863 E.

Gulf of Mexico. No. 5. Lat. 28°33' Lon. 83°53 20 Fathoms

No. 864 F.

Gulf of Mexico Sec. VIII No. 5. Lat 25°10 Lon. 82°48 247. 2 ft.

No. 865 G.

Gulf of Mexico Sec. VIII No. 5. Lat. 25°10 Lon 82°48 24 Faths.
Light footing natural state

No. 866 H.

Gulf of Mexico Sec. VIII No. 9. Lat. 28°59' Lon. 88°51 152 Faths.

No. 867 J.

Gulf of Mexico Sec. VIII No. 10. 28°58' 88°57' 60 fathoms

49/22 1/4	Coscinodiscus		49/22 1/4
	Grammostomum	slender	70 1/2 / 39 3/4
	Rotalia	2 specimes	70/47
	Rotalia		69 3/4 / 88 3/4
	Grammostomum	serratum B. n. sp. good.	69 1/2 / 86 1/4
	"	?	68 3/4 / 61 3/4
	"	large one	68 / 78 3/4
	"	"	66 3/4 / 63
	Pimnlaria peregrina ?		56 3/4 / 25
	Triceratium	small	57 3/4 / 28 1/4
	Rotalia		51 1/2 / 90
	Grammostomum	large	45 3/4 / 79 1/2
	"		41 / 22 1/4
	Otrophocems		38 3/4 / 81 1/2
	Eupodiscus radiatus B.		39 / 74 1/4
	Rotalia	showing aperture	39 / 23
	Navicula	sigmoid	38 / 20
	Grammostomum	slender	37 3/4 / 22
	"	membrane only	38 / 63 1/4
	Globigerina		32 3/4 / 26 1/4
	Bulimina ?		32 / 81 1/2
	Gallionella sulcata,	chain	31 3/4 / 69 3/4
	Pimnlaria		32 / 61 3/4
	Triceratium favus		30 1/2 / 86

No. 868 J.

Gulf of Mexico No. 11. Lat. 29°50 Lon. 85°6- 240 Faths.
Boiled with H. cl. acid

No. 869 K.

Gulf Stream. Sec. VIII No. 13 Lat. 32°54'01" Lon. 76°51'15"

Treated with Hydrochloric acid

49 3/4 / 69 3/4	Green sand cast - good.
56 / 74	Siliceous cast of Globigerina ?
45 3/4 / 69	Green sand cast small but good
44 3/4 / 29 3/4	Siliceous cast of spherical cells with the casts of the pores
42 1/4 / 71 3/4	Green sand cast
40 / 72 1/8	Cast of Tubuli
39 1/2 / 69 3/4	Green sand cast
38 1/8 / 63 2/3	Green sand cast - many called spores
39 / 27	Cast of cell with its pores
36 1/2 / 62	Cast of spiral
"	Cast of " Globigerina ? with pores just below last
36 1/2 / 60 3/4	Green sand cast good one

No. 870 L.

Gulf of Mexico Sec. VIII No. 15 – Lat. 29°29' Lon. 87°19'

Sandy – 150 Faths.

52/4 / 66/8 Green Sand cast of Spiroid tissue good

48/2 / 63/4 " " " frags. of a large spiral Polythalamium shell

51/4 / 84 another portion of same shell

by right edge separated from above in mounting.

58/2 / 69/2/3 Cast of a Grammostomum

No. 871 M.

Gulf of Mexico Sec VIII No. 15 Lat 27°31 Lon 85°19'

Heavy parts treated with HCl 320 Fathoms.

No. 872 U.

Gulf of Mexico No. 19 Lat 24° 33. Lon. 84° 30 - 85 Fath.
Light portions in natural state.

No. 873. O.

Gulf of Mexico. Lat. 28° 12' Lon 85° 47' 160 Fath.

$\frac{52\frac{1}{2}}{75\frac{3}{4}}$ Haliomma with ~~small~~ spines

$\frac{46\frac{1}{2}}{76\frac{1}{4}}$ Cast of Spiral Polythal.ª

$\frac{67}{66\frac{1}{4}}$ " " burrowing spine ?

No. 874. P.

Gulf of Mexico. Lat. 29°05 Lon. 86°25' 125 Fathoms

No. 875. Q

Gulf of Mexico. Sec. VIII No. 22. Lat. 29°02 Lon 80°22' 15 fath.

(Coarse parts)

60 7/8 / 75 1/2	Grammostomum	
	Calcareous plate of Synapta	70 1/2 / 66
	" "	70 / 27
	Grammostomum	68 3/4 / 81 3/4
	Textilaria	68 / 64 1/4
	Spiroloculina	60 / 61 1/2
	Grammostomum	55 / 25
	~~Strophocomus~~	55 / 78 1/4
	Strophocomus	50 / 60 1/2
	Calcareous plate inching last	"
	?	42 3/4 / 60 1/2
	Lagena?	42 3/4 / 28 1/2
	Spinose globe ?	42 / 68 1/4
	Spine of Echinoderm	41 1/4 / 70
	Textilaria?	40 1/2 / 73 3/4
	Grammostomum good	35 7/8 / 83 3/4
	3 holed plate	36 / 63 3/4

No. 876 R.

Gulf of Mexico No. 23. Lat 29°15 Lon. 86°30 57 fath.
Casts of Amphistegina &c

No. 877. S.

Gulf of Mexico. No 24 Lat. 29°30 Lon. 86°41' 16 fath.

No. 878 S"
Gulf of Mexico No. 19 Sec VIII Lat. 27°33 Lon. 84°30

No. 879 J"
Gulf of Mexico. No 19. Sec. VIII Lat. 27°33' Lon. 84°. 30'

No. 880. M.

Gulf of Mexico. Lat. 29° 05' Lon. 81° 25' 125 feet

$\frac{66\,3/4}{71}$ Textilaria ? new ? good

$\frac{60}{21+}$ Uvigerina ?

$\frac{51}{72\,3/4}$ Calcareous plate of an Echinoderm

" Rotalia ? with green sand in its cells

touching last on N.E. side

$\frac{35\,1/2}{83\,3/4}$ Grammostomum large

$\frac{31\,3/4}{72\,1/3}$ " serrate (new ?)

$\frac{50\,1/4}{19\,1/2}$ Robulina ?

$\frac{53\,3/4}{69\,7/8}$? S. E. of a spiral mollusk

No. 881 V.

Gulf of Mexico Lat. 29°05' Lon. 84°25. 125 feet

$\frac{65\,1/8}{70\,2/3}$ Spine of Echinoderm? dentate

$\frac{62}{23}$ Globigerina

$\frac{53}{73\,1/4}$ Dentalina? a fragment

" Uvigerina?

$\frac{47\,1/8}{70\,7/8}$ Grammostomum fine one

$\frac{41\,1/4}{68\,1/4}$?

No. 882 W.

Gulf of Mexico Lat. 25°05' Lon. 82°38' 22 Faths.

Orbiculina shows cells well

No. 883 X.

Outside Mobile Bay S. of Mobile Pt. 8 Faths

Lygocerus

No. 884 - Vol. 17. Slide A.

Para River, S. A.

By Bailey's Indicator

$\frac{80\,1/4}{82\,2/3}$ Ditylum side view

$\frac{81}{74\,1/2}$ Lygoceros like Fig. 25 (Biddulphia tenuis)

$\frac{69\,1/2}{86}$ * Coscinodiscus tenuis B.

$\frac{55}{66}$ Lygoceros Fig. 25

By Grunow's Index - Lists.

$\frac{20}{11}$ Biddulphia tenuis

$\frac{13}{13}$ Triceratium Shadboltii

No. 885. B.

Para River S. A.

$\frac{57\,3/4}{47}$ End view of Terpsinoe

$\frac{53\,3/4}{36\,1/2}$ Eupodiscus

No. 886 C. (cont d.)

Para River S. A.

61 1/4 / 31 1/4 Tetragonopterus — Small one like fig. 49

49 / 28 1/4 Euporiscus

34 1/4 / 87 1/4 Surirella

No. 887 D. Para River S. A.

53 1/2 + / 24 3/4 Tetragonopterus ? — Tetragramma

41 1/2 / 20 Amphitetras

No. 888. E. Para River S. A.

1st. recorded by J.W.B. on new card St.

59/61 1/4 Denticella

60/40 1/2 Nitschia punctata (1/2 a valve)

2d. recorded by L.W.B. with Mallwood's finder

27/33 Denticella Linearia (good) just S. of Cyclotella

47/18

47/18 Pleurosigma

31/13 Nitschia punctata (fragt.)

No. 889 F. Para River, S.A.

By Indicator

51/4 / 73 3/4 Navicula Septenaria (3 cards)

By Inalterwood

35/28 Eupodiscus

29/216 Nav. Septenaria

No. 890 G. Para River S.A.

60/2 / 26 Eupodiscus side view of two frustules

No. 891. H. Paw River S.C.

By Indicator Card Co.

$\frac{64\,1/2}{16\,3/4}$ Tricerathium Rhadboetia : S.E. of long brown spot.

$\frac{59\,1/2}{24\,1/8}$ Surirella

$\frac{56}{21\,1/4}$ " S of T. favus

$\frac{55\,1/4}{63\,2/3}$ Striatella ?

$\frac{50\,1/2}{30\,1/8}$ Surirella

$\frac{41\,7/8}{26\,3/4}$ Nitschia

$\frac{48\,3/4}{20}$ Stauroptera cardinalis

By Wallwood's Finder L.W.13.

$\frac{22}{34}$ Pinnularia (with very gibbous centre

$\frac{17}{30}$ Striatella ? Rhabdonema

$\frac{8}{35}$ Surirella

$\frac{10}{16}$ Nitschia with strong transverse bars

$\frac{33}{23}$ Stauroptera cardinalis

$\frac{34}{24}$ Zygoceros front & end views

$\frac{26}{24}$ Syringidium

No. 892. J. Para River, S. A.

$\frac{40}{70}$ Eupodiscus

$\frac{59\,1/8}{21}$ Surirella ~~guatimalensis~~ quata

No. 893. J. Para River, S. A.

$\frac{37}{75\,1/4}$ Syringidium Cand St. new

$\frac{40\,1/2}{78\,1/4}$ Polymyxos with air

$\frac{44\,3/4}{79\,1/2}$ Syringidium

$\frac{48}{44\,1/2}$ Ditylum

$\frac{53}{63}$ " top view

$\frac{55\,1/2}{44\,1/2}$ " side view

$\frac{58}{45\,3/4}$ Denticella

$\frac{58\,3/4}{80\,1/3}$ Triceratium Shadboltii side view

$\frac{58\,3/4}{64\,1/8}$ Syringidium v Speciosum

$\frac{63\,1/4}{63\,3/4}$ Syringidium Simplex

$\frac{64\,1/2}{66\,1/2}$ "

$\frac{63}{43\,3/4}$ " By Maltwood

$\frac{64\,3/4}{49\,3/4}$ Coscinodiscus $\frac{17}{29}$ Ditylum trigonum

$\frac{65}{46\,1/8}$ Triceratium Shadboltii $\frac{33}{7}$ " "

$\frac{65}{37\,3/4}$ large Polymyxos

$\frac{65\,1/8}{49}$ 1/2 of a valve of Nitschia

No. 894. K. Para River xxx

$\frac{24}{19}$ Triceratium Shadboltii S. K.

$\frac{30}{23}$ Pinnularia resembles P. nobilis

$\frac{24}{25}$ Amphitetras cuspidata

$\frac{27}{25}$ Navicula

recorded by L. W. Bailey with Malluvedi finds

No. 895. L. Para. S.A.

By Mallinson's finder

89/16 Surirella fragt.

30/15 Biddulphia 2 processes 1 spine

29/29 Pinnularia large resembling P. nobilis

34/14 Surirella decora? Ehr.

17/23 Navicula with cuneate ends

87/31 Lygoceros hemitropa (good)

30/27 Eupodiscus radiatus

42/36 Amphora Fig 1 of Plate

No. 896 M. Para, S.A.

71/44 3/4 Eupodiscus oblique view (St)

61 1/2/78 1/2 Ploymyxos Dawyi with air see as fragme

By Mathewson Finder

No. 897. N. Para. S.A.

22/19 Surirella

17/18 " (fine)

25/20 Syringidium americanum

23/17 Surirella

30/25 Nelokira punctata

No. 898 O. Para S.A.

By Mathewson's finder

24/13 Amphiletras cuspidata end view

30/9

31/13

No. 899. P. Para River S.A.

No. 900. Q. Para River S.A.

$\frac{24}{31}$ Denticella tridentata By Mullerorodi L.

No. 901. R. Para River S.A.

No. 902 S. Para River S.A.*

33/33 Serpsinoë by Maltwood's finder

18/27 Emmotia amiordon (frag.)

*[illegible]

No. 903 T. Para River S. A.

31/26 Denticella trimacria B.

43/33

44/34 Syringidium americanum

44/33 Dictyocha fibula

42/22 Syr. americanum (good)

45/22 " "

14/28 " "

29/31 Lygoceros hemitropa B.

18/21 Pinnularia

17/27 Actinocyclus Ehrenbergii

19/16 Stauroptera fig 32 of Plate

By Bradbrook Fielder

No. 904 U. Para River S.A.

$\frac{35}{29}$ Amphora oblecta ?

$\frac{28}{29}$ Navicula firma ?

No. 905 V. Para River S.A. 27 fathoms

No. 906 W. Para River S.A.
Surface water Mouth of River

No. 907 W. Para River S.A.

No. 908 Y. Para River S. A.

No. 909. Z Para River S. A.

No. 910 A' Para River S.A.
San Antonio Bay, Lat. 1° 14' 15" S Lon 48° 24' 15" W.

No. 911. B' Para River S.A.
$\frac{39}{25}$ Terpsinoë fig 54.

No. 912 'C' Para River S.A.

By Maltwood

$\frac{39}{34}$ Eunotia nearly fig. 27

$\frac{38}{33}$ Diodadia capreolus

$\frac{40}{35}$ Syringidium americanum

$\frac{42}{19}$ Tricerratium resembling T. Shadboltii but with no Spines

$\frac{14}{15}$ Tricerratium Shadboltii

No. 913 D' Para River S.A.

$\frac{47}{21}$ Cyclotella Fig. 4 of Plate

$\frac{11}{12}$ Syringidium americanum + small Amphitetras

a colored Helmocylus

$\frac{13}{13}$ Syringidium amer.

$\frac{28}{24}$ Terpsinoë not like any in Plate

$\frac{18}{35}$ Large Polymyxos Fig. 59

$\frac{16}{35}$ $\frac{17}{35}$ Syringidium simplex

No. 914 E' Paw River S. A.

$\frac{33}{17}$ Tr. Shadbaetii

$\frac{49}{23}$ Cos. gigas

$\frac{48}{35}$ Lygoceros end view

$\frac{28}{32}$ Helmoptychus fine

$\frac{14}{9}$ Terpsinoë Fig. 46

$\frac{32}{22}$ Ceratanlus turgidus

$\frac{34}{21}$ Fig. 29 to Wof Leoscim.

$\frac{47}{15}$ Emmolia

No. 915 F' Para River S.A.

59 1/2 / 81 1/2 Ditylum top view small near a specimen

? 43 1/2 / 72 1/8 Surirella

like Fig. 34

43 / 73 1/3

49 3/4 / 109 3/4 Pinnularia elliptical

33 2/3 / 80 2/3 Eunotia Fig. 28

2y (by Mallwood) Fragillaria constructa ? !

No. 916. G' Para River S.A.

Cosmodiscus

No. 917 H' Para River S. A.

No. 918 I' Para River S. A.
washed from coarse landings

No. 919 J. Para River S.A.

By Mallwood

25/25 Denticella? tenuis

38/11 | 39/11 Denticella end view

45/12 " tenuis front view

41/17 Dilylum inequale ½ H.E. of large Coscinodiscus

35/22 Navicula fig. 24? of plate

31/29 Dilylum large end view

32/29 33/29 Triceratium alternans near a Dilylum

41/31 " " 2 valves

By Indicator

41/51 3/4 Denticella tenuis 2 portions

= B. Baileyii

No. 920 K.' Para River S.A.

64 7/8 / 28 Diploneis (in ring)
58 1/4 / 20 1/4 Navicula " fig 21.
60 1/8 / 14 1/4 Coscinodiscus very thin & faint
48 / 37 2/3 Syringidium
46 / 40 Ditylum side view
38 / 21 Navicula fig 20
37 1/2 / 24 1/4 Triceratium Shadboltii
36 1/4 / 35 7/8 " "
34 / 38 1/2 Ceratoulus
47 1/2 / 2 1/4 Amphitetras

Indicator

12 / 35 Syringidium americanum
10 / 28 " simplex
8 / 28 Denticella trinacria
20 / 26 Cymbella
24 / 25 Pinnularia? (with 2 dots at the ends)
27 / 27 Denticella 4 processes - 4 spines
31 / 36 Navicula pandriform
23 / 29 Navicula lineolata? Ehr. fig. 21 of Plate
24 / 29 Ditylum trigonum: Ehr
18 / 30 " end view near a Polymyxos
10 / 14 " " " large
40 / 7 Triceratium Shadboltii
18 / 8 " "
17 / 31 Coscinodiscus centris an Eupodiscus?
43 / 16 Ditylum
24 / 8 N. bacillum? Ehr.
" Chaetoceros fig. 20 of Plate
6 / 18 Amphitetras cuspidata?

By Mallinson's finder

No. 920 K. Para River S.A.
(Continued)

Brightwell

11/18 Diploneis

14/20 Amphitetras?

13/23 Denticella 4 processes 2 spines

13/23 " Arinacria

11/25 Spongiolites agaricus

No: 921 L. Para River S. A.

22/37 Syringidium longidum L. W. B.

unlike any in Plate

25/34 Coscinodiscus? with gibbous centre

26/34 Ir. alternans

26/24 Denticella limacria (good)

No. 922 Ui Para River S. A.

25/33 Coscinodiscus lineis B.

30/28 " ?

33/24 Dicladia mamillaria ✓ S. of black spot

32/25 Lygoceros hemitropa ✓

36/27 Tr. Shadboltii ✓

37/27 Ditylum trigonum ! end view

37/26 Bid. trimacria

16/34 Nitschia (examine again)

30/37 Terpsinoë ? slightly resembling fig. 54

27/38 Biddulphia 4 processes - 4 spines

23/41 (what is the large round body ?)

26/41 Denticella triacria 2 spines long

34/41 Amphitetras cuspi. ✓ SV. good

9/7 Syringidium

15/9 Terpsinoë fig. 48

17/10 Lygoceros hemitropa

No. 923 N.' Para River S. A.

$\frac{13}{35}$ Syringodium

" Polymyxos 4 cones

$\frac{16}{37}$ Triceratium alternans

No. 924 O' Para River S. A.

Polymyxos Manzii

No. 925 P' Para River S.A.

By Mallorard

14/22 Surirella

11/22 Melosira granulata with spine

11/22 | 12/22 Cyclotella differs from fig. 4 of Plate

11/21 Xanthiopyxis

10/21 | 11/21 1 valve of Hemantes

10/18 Surirella

18/28 | 19/28 { Melosira interrupta
{ Ditylum trigonum end view

19/29 Cyclotella (S.V. with undulation

13/33 Surirella

15/34 Dicladia Capreolus?

47 1/4 / 69 1/4 Surirella

37/62 1/2 Surirella splendida?

No. 926 Arctic 1 a Lat 48°12' N. 49°42' W.
natural state

No. 927. Arctic 1 b. Lat 49°12' Lon 49°42' W.
light parts, natural state 416 fathoms

No. 928 Arctic 2a Lat. 49° 40' N. Lon 48° 29' W.
natural state 1080 fathoms

No. 929. Arctic 2b. 49° 36' N. 49° 15' W.
light parts, natural state. 732 fathoms

No. 930 Arctic 3a. 49°40' N. 48°29' W.
Natural state 1080 fath.

No. 931 Arctic 3b. 49°40' N. 48°29' W.
light part natural state

No. 932 Arctic 4a. 49°49' N. 46°43' W.
natural state 1590 Fath.

No. 933 Arctic 4b. 49°49' N. 46°43' W.
light part natural state 1590 Fath.

No. 934 Arctic 5 L. 49° 49' N. 45° 54' W.
Natural state 1827 fathoms

No. 935 Arctic 6a 49° 51' N. 44° 43' W.
natural state 1627 fathoms

No. 936 Arctic 6b. 49°50' N. 44°43' W.
with acid heaviest part 1627 Fath.

No. 937. Arctic 6c 49°50' N. 44°43' W.
with acid light part 1627 Fath.

No. 938 Arctic 7a 51°43' N. 13° 44' W.
Natural state 255 fath.

No. 939. Arctic 7b. 51°43' N. 13°44' W.
With acid heaviest part 255 fath.

No. 940 Arctic 7 b' 51°43' N. 13°44' W.
Natural state 255 Fath.

No. 941 Arctic 7c 51°43' N. 13°44' W.
with acid heavy part 255 Fath.

No. 942. Arctic Sd. 51°43' N. 13°44' W.
with acid heavy part 255 fath.

$\frac{53\frac{3}{4}}{76\frac{3}{4}}$ Coscinodiscus borealis ? B.
$\frac{55\frac{1}{2}}{70}$ Pterocodon ? ? fragt.
$\frac{55\frac{3}{4}}{63\frac{1}{4}}$ Coscinodiscus oc-iridis
$\frac{51\frac{3}{4}}{78}$ Encystidium reticulate or granulate
$\frac{46\frac{3}{4}}{73\frac{3}{4}}$ " auritum ? var.
$\frac{44\frac{1}{2}}{70\frac{1}{2}}$ " "
$\frac{44\frac{3}{4}}{74\frac{1}{2}}$ Net work of ? Coarse circular meshes.

Seen. Cornutella atlantica et profunda
Rhizosolenia decurrens.

No. 943. Arctic Ice. 51°43' N. 13°44' W.
with acid heaviest part.

47 1/4 / 80 3/4	Coscinodiscus borealis?
57 1/2 / 66 3/4	Encyrtidium
54 3/4 / 75 1/2	Corruntella profunda good one
54 1/4 / 63 1/4	Halicalyptra
52 3/4 / 65	Encyrtidium reticulated + granulate
52 1/2 / 73 1/4	Encyrtidium auritum?
51 3/4 / 82 1/4	Corruntella atlantica?
51 1/2 / 65 1/4	Coscinodiscus crassus?
49 1/4 / 80 1/4	Spongiolite whorled
47 3/4 / 69	Encyrtidium auritum B.
46 / 29 1/4	Dictyophimus? top view
45 / 29 3/4	Cadium marinum B. fine slide
42 1/4 / 78 1/4	Coscinodiscus crassus B. good one.
42 3/4 / 69	Rhizosolenia decurrens 2 specimens near a black spot, and piece of mica
41 1/2 / 65 1/2	Encyrtidium reticulate good.

No. 944 Arctic 7 f Lat. 51°45' Lon. 13°44' W

with acid. mix'd heavy & light parts

48/81 Coscinodiscus with air bubble

59 1/2/76 Coscinodiscus

58 1/2/63 1/4 Rhizosolenia decurrens B. N.W. of small black spot

57 1/2/62 1/2 Encyrtidium reticulates & granulate

57/83 3/4 Encyrtidium anritum? Ehr.

56/78 3/4 Dictyophimus? with spiny processes.

55 1/2/79 1/2 Coscinodiscus borealis? large

54 1/2/85 Cosmatella atlantica

54 1/2/84 Cadium maximum S.E. of air bubble

54 3/4/70 1/4 Coscinodiscus

54/68 Halicalyptra?

53 3/4/85 1/4 Encyrtidium Tritonis? frag't.

52 3/4/62 1/4 Halicarya

52/77 " oblique view

49 1/4/88 Flustrella

46 3/4/86 1/4 Cadium maximum coarse striae

46 3/4/64 1/4 Cosmatella Fiscella

42 1/2/73 1/4 Coscinodiscus crassus?

42 3/4/68 1/2 "

42/62 3/4 " marginatus? Ehr.

41 1/2/74 " borealis B. good.

38 3/4/75 1/4 " "

No. 945 Barrow Strait. 8a. 74° 30' Lat. 94° 16' W.
Assistance Bay. Mud bottom in 7 fathoms.

$\frac{46\ 3/4}{36\ 1/4}$ 1/2 a small ? grammatophora. Same field S.E in 1/4 mic. a Stauroptera.?

$\frac{46\ 3/4}{32\ 3/4}$ Gyrosigma long & narrow

$\frac{47+}{21\ 1/4}$ Hyalodiscus ?

$\frac{47*}{38\ 1/2}$ Coscinodiscus with rays projecting from the edge - small. new ?

"& Sundry Irgmoids which nobody can name at least I cannot."

No. 946 8b.
Sand from North pole. Capt. Parry.

No. 947 Sea of Kamtschatka A a. 900 Fath.

$\frac{53}{75\ 7/8}$ Ceratospyris ? Drawn

$\frac{51\ 3/4}{81\ 1/3}$ " ?

" 2 Coscinodisci

$\frac{37\ 1/2}{61}$ Ceratospyris ?

$\frac{46}{65}$ Encystidium

No. 948 Sea of Kamtschatka A b. 900 Fath.

$\frac{45\ 1/2}{76}$ Heleromphalus Brookii

$\frac{41\ 1/8}{75\ 7/4}$ Spongodiscus large one

$\frac{32}{85}$ Coscinodiscus oculus-iridis

" Heleromphalus Brookii B. N.E. of above nearly touching it

No. 949. Sea of Kamtschatka. &c. 900 Fathms

62/69 1/4 Asteromphalus Brookei E. of air bubble

58 3/4/89 " "

" Chaetoceros furcillatum B. just above the last.

51 1/8/28 Asteromphalus Brookei

" Chaetoceros furcillatum just below the last

60/60 3/4 Asteromphalus Brookei near a black spot.

62 1/8/69 1/2 " " N.W. of a large empty ring.

53/79 " "

" Coscinodiscus subtilis? touching the above.

52 7/8/76 7/8 Asteromphalus Brookei, just above a horizontal Synedra, Small but good.

51 3/4/61 3/4 Coscinodiscus oculus iridis 2 specimens

46 3/4/76 3/4 Asteromphalus Brookei B. N.E. of an empty ring.

S.W. of S.E. of another

57 1/8/77 Asteromphalus Brookei B. N.W. of a Cosc. oc. iridis

53/62 1/8 Chaetoceros furcillatum

N.E. of upper end of a Synedra

49/68 1/2 Dictyocephala? bit of net work.

No. 950. Sea of Kamtschatka A d. 1700 Faths.

45/64 3/4	Coscinodiscus	
	Asteromphalus Brookei B. grod.	66 3/4 / 65
	Cosc. crassus? B.	55 / 26 1/2
	Cosc. borealis	55 / 21 1/2
	Denticella amita Ehr.	55 1/4 / 20
	Cosc. crassus! (touching a Cosc. oculindis.)	49 1/4 / 10 1/4
	Asteromphalus Brookei	49 1/4 / 46 1/4
	Cosmatella	45 1/2 / 28

No. 951 Ste. Lat. 56° 46' N. 168° 18' E.

(last washings very poor slide) 2700 Fathoms.

$\frac{39}{88.1/2}$ Asteromphalus Brookei B. W. of a long thread

No. 952 Hancock No 1. Str. of Sangar
29 Faths.

No. 953 Hancock 2. 30°35 N. 130°40' E.

No. 954 Hancock 3. Lat 30° 35' Long. 130° 40' E.

No. 955 Hancock No. 4. 22 Fathoms
Chaeticeros

43 1/4
75 1/2

No. 956 Hancock 5. 30°35' N. 130°40' E.
By floating

No. 957 Hancock 6. 30 fathoms

Heterosphalus — 47 3/4 / 81
Small one S.W. of 2 large brown spots.
Chaetoceros — 46 / 73 1/4
view in angle between 2 apicules
Chaetoceros, obscured E. of bubble — 44 3/4 / 26
Biddulphia — 35 1/2 / 65 1/2
Amphora — "
Chaetoceros fragt. — 34 1/2 / 37 3/4

No. 958 Hancock 7.

No. 959 Hancock, 8.

No. 960 Vincennes - No 1 a. 66° 36' 15" N. 170° 02' W. 28 faths.

No. 961 " 1 b. 66° 36' 15 N. 170° 02' W.
28 fathoms

No. 962 Vincennes 2 a. 71°16 N. 176°06 W. 28 fathoms

No. 963 Vincennes 3 a. 72°05'27 N. 174°37'15 W.
40 fathoms

No. 964 Vincennes 3b. 72°05'27" N. 174°37'05" W.
40 Fathoms

No. 965. Vincennes 3c. 72°05'27" N. 174°37'05" W.
40 Fathoms

No. 966 Vincennes Id. 72° 05' 27" N. 174° 37' 05" W.

440 Fathoms

American Diatoms

No. 967 Slide A. West Point N.Y.

$\frac{53\,3/4}{61\,2/3}$ Stauroneis Baileyi Ehr. side view of a deformed specimen

$\frac{58\,1/4}{67}$ 4 specimens of Surirella splendida side & basal views, and one undergoing division. also Stauroneis Baileyi, side view, good one.

$\frac{52}{71\,1/4}$ Stauroneis Baileyi, side view

$\frac{48}{37}$ Surirella splendida edge view

No. 968. B.

East River N.Y.

No. 969. C. Gay Harbor, N.J.

No. 970 D. Hudson River

No. 971. E. Catskill N.Y.

No. 972 F.
Infusoria Catskill Lake

No. 973 G.

Basin of Dog-Hole Fall. Catskill.

No. 974 H.

Infusoria Catskill Lake

No. 975 I.

Stream Hyde Park

No. 976 J.

Stream Hyde Park

No. 977. K.
Infusoria Jamaica Bay. L.I.

No. 978 L.
Remarkable circular disc from Sand near
Riddles Stairs, Niagara -

No. 979. M. West Point - N.Y.

$\frac{55}{72\ 3/4}$ Navicula americana Ehr.

$\frac{51\ 1/2}{73\ 3/3}$ " "

$\frac{45\ 3/4}{62\ 1/4}$ " "

No. 980. N. West Point N.J.

62/68 Synedra spectabilis, broken

" Pinnularia macignalis, touching the above

62 1/4 / 68 1/2 Sponglithis aspera

" Pinnularia dactylus & Ehr. just E. of last

59 1/4 / 85 { Pinnularia nobilis Ehr.
" macignalis, at lower end of last.

" Ennotia tetraodon E. of upper end of P. nobilis

60 / 63 1/4 Pinnularia macignalis

" " macilenta Ehr. one at E. end of last.

56 1/4 / 64 1/4 { Sponglithis apiculata
" aspera

56 1/4 / 74 3/4 Stauroneis Baileyi

54 3/4 / 80 1/8 " "

" Amphidiscus Anchora nearly touching last on lower side -

63 3/8 / 67 1/4 Cocconema asperum Ehr.

" Gallionella crenatum Ehr. & frustules near W. end of last -

54 1/3 / 63 1/8 Pinnularia Dactylus

" Sponglithus acicularis close to last.

" Gomphonema nasutum just below E. end of last.

54 3/4 / 29 1/4 Navicula Baillaiana Ehr.

51 / 70 Amphiprora navicularis Ehr.

49 1/2 / 69 3/4 Navicula dilatata Ehr. between & specimens of Stauroneis grac.

" Stauroneis gracilis one N.W. the other S.E. of last.

47 1/8 / 74 3/4 Gomphonema coronatum Ehr. near end of Pinn. nobilis.

47 / 75 1/8 { Pinnularia nobilis & Cocconema asperum } forming a cross.

" Navicula amphigomphus just above last.

" Gomphonema turgidum S.W. of last.

47 / 8 " Gomphonema coronatum 2 specimens -

No. 981 O. West Point Hy.

62/71+ Pinnularia inaequalis Ehr. 3 specimens
62 1/2/67 3/4 Eunotia tetraodon Ehr.
62 1/8/64 1/2 Pinnularia nobilis Ehr. with a Stauroneis (its side) by
" Gomphonema longiceps Ehr. S.W. of centre of last
61 1/2/68 Pinnularia Dactylus horizontal
" Gomphonema longiceps just below W. end of last
59 3/4/63 1/2 Pinnularia inaequalis
" Gomphonema coronatum Ehr. just W. of middle of last
58 3/4/74 Eunotia decaodon just below a brown spot
57 1/2/62 7/8 Stauroneis Baileyi Ehr. good one
53 1/4/80 7/8 Cocconema asperum 2 specimens
52 1/4/81 3/4 Stauroneis Baileyi Ehr. close to edge
51 1/4/72 1/4 Stauroneis Baileyi Ehr.
" Eunotia tetraodon
" Gomphonema coronatum Ehr. just above the last
" Navicula Arcus 3 specns S.W. of St. Baileyi
51/68 " "
49 1/4/64 1/4 Stauroneis Baileyi Ehr.
" Gallionella crenata near lower end of last
49/60 2/3 Pinnularia (?) Legumen
" Amphidiscus Rotata just above W end of last
44+/27 3/4 Navicula dilatata Ehr.
38 1/4/66 1/2 " " W. of P. nobilis
49 7/8/70 { Gomphonema coronatum Ehr. on right
" turritis " on left
41 1/8/26 7/8 Cocconema asperum Ehr.
" Navicula americana broken close to the last.
41 1/8/63 3/4 Navicula Baicalensis 2 sp.
S. of Pinnularia (Dactylus?)
W. of P. nobilis

No. 981 O. West Point N.Y. (Continued

$\frac{43\,1/10}{63\,3/4}$ { Eunotia granulata? Ehr
Epithemia

$\frac{39}{70}$ Spongolithis acicularis vertical E. of 2 Pinn.a inaequalis

$\frac{56\,1/2}{63\,1/8}$ Spongolithis aspera Ehr.

$\frac{42\,1/2}{66\,1/2}$ Pinnularia major Smith 2 valves crossing

(P. viridis ??)

No. 982 P. Amboy N. J.
Rosemodiscus rc

No. 983 2. Hoboken, N. J.

No. 984 R. Hoboken, N. J.

No. 985. S. Hoboken N. J.

No. 986 J. Milford, Conn.

No. 987. U. New Haven, Conn.
Sigmoid Variant.

No. 988 V. Smithfield R. I.

No. 989. V. Smithfield R. I.

47 7/8 / 65 Navicula americana Ehr.
48 1/2 / 62 3/4 Cocconema asperum Ehr.
" Amphidiscus Rotula V. of last.
45 7/8 / 76 7/8 Spongolithis apiculata
" Navicula Americana
74 / 73 1/4 Surirella splendida (obscured)
42 7/8 / 70 1/8 Surirella splendida (one edge broken)
" Pinnularia dactylus V. of last
" P. nobilis " "
39 5/8 / 71 3/4 Amphidiscus Rotula
" Pinnularia Dactylus Ehr. several specimens surrounding the last.
51 1/2 / 73 Amphidiscus Rotula 2 specimens
" Eunotia monodon Ehr. between bor-

No. 990. K. Smithfield R.I.

63 1/4 / 66 Stauroneis Baileyi

" Cocconema asperum N. of last

62 1/4 / 74 Stauroneis Baileyi

" Pinnularia costata Ehr. N. W. of last

61 1/2 / 61 " nobilis

" " Legumen N. of last

62 / 28 7/8 Stauroneis Baileyi

" Pinnularia Dactylus touching upper end of last

" " " 2 specimens just below St. Baileyi

" " macilenta N. of last

" Spongodiscus apiculata crossing the lower P. dactylus

60 7/8 / 74 2/3 Synedra spectabilis

" Spongolithis apiculata touching lower end of last

" Cocconema asperum touching last.

58 7/8 / 79 1/8 Pinnularia costata Ehr. close to edge of glass cover

57 3/4 / 24 1/2 Cocconema asperum

57 / 2 Eunotia monodon? Ehr. N. of a long frieze of Syn. spectabilis

44 / 76 1/3 Pinnularia costata Ehr. good one

" Himantidium Arcus 2 specimens near last

42 7/8 / 60 2/3 Amphidiscus Rotula Ehr.

42 / 76 2/3 Synedra spectabilis, one end broken

" Himantidium Arcus (crossing the last)

41 / 70 Cocconema asperum, three specimens.

" Spongolithis apiculata touching lower end of middle one of last

37 1/2 / 72 1/2 Spongolithis acicularis, with a fragt. of Pinn. costalata near it

No. 991 Y. Boston, Mass.
Filtered from Cochituate Water.

No. 992 Z. Bridgewater Mass.

No. 993 A. Dor, N. Hampshire

58/71 1/8 Navicula dilatata Ehr.

" Stauroneis gracilis Ehr. touching last.

51 1/2 / 69 7/8 Pinnularia nobilis 2 spec. at obtuse angles.

53 1/8 / 64 3/4 Navicula dilatata Ehr. large - yellowish

" " " small one just above last

51 7/8 / 80 7/8 " " large one good

" Stauroneis Phoenicenteron S. E. of last

49/78 Eunotia serrulata ? Ehr. 18 teeth

46/29 1/2 Navicula delatata Ehr.

" Stauroneis gracilis 3 spec.ns S.W. of last

44 1/8 / 75 1/2 Gomphonema coronatum Ehr. N.E. of an oblong red mass.

41 3/4 / 70 Pinnularia inaequalis

" Eunotia 15 teeth

No. 994 P' Dor, New Hampshire

No. 995 C' Pine Hill Pond Nov 11 Maine

No. 996. D' Blue Hill Pond Nor Maine

No. 997 E' Blue Hill Pond Maine

No. 998 F' Blue Hill Pond, Maine

No. 999 G' Blue Hill Pond, Maine

No. 1000 H. Blue Hill Pond, Maine

No. 1001 I. Blue Hill Pond, Maine

No. 1002 J' Blue Stiel Pond, Maine

61/67 Spongolithis setosa Ehr. (cleaned) several specimens

51/29 Primnlaria gigas Ehr. good one, nearly between 2 air bubbles

47/81½ " "

No. 1003 K' (no locality)

Lynedra undulata

No. 1004 L' (no locality)
Isthmia obliquata

No. 1005 M'. Arctic Regions
Stauroneis

No. 1006 N. Arctic Regions
Ticevatium arcticum

No. 1007 O' Severn River, Md.

No. 1046 Foreign Diatoms
Slide P'

Triceratium striolatum

64 1/2 / 72 2/3	"	"	Brightwell edge view
63 / 61 1/4	"	"	side view
62 / 69 7/8	"	"	oblique view of 4 sided one
60 1/2 / 74 1/2	"	"	top view
60 1/2 / 76	"	"	"

No. 1047 Q' Rich Jack, Carmarthen

Triceratium armatum

57 1/2 / 8 51 1/8 Pinnularia nubica B. ?

16 1948 R' Cherbourg.

$\frac{19\frac{1}{2}}{93}$ Navicula Pandura

in the same field Amphitetras

$\frac{23}{99\frac{3}{4}}$ $\left(\frac{22\frac{1}{8}}{99}\right)$ Campylodiscus Thuretii = simulans Greg.

" limbatus, same field

{ double heavy margin

$\frac{20\frac{1}{2}}{101}$ $\left(\frac{20}{101+}\right)$ Campylodiscus decorus

$\frac{19}{100+}$ $\left(\frac{19+}{99}\right)$ Amphitetras - fine.

$\frac{28\frac{3}{4}}{103}$ $\left(\frac{29}{102}\right)$ Entodiscus Ralfsii

Casts of Polythalamia

No. 1949 Slide 1a. Leon Springs, W. Texas.

U.S.M.B.S.

$\frac{63}{76}$ Grammostomum ?

$\frac{59\ 3/4}{78}$ Textilaria

$\frac{56\ 3/4}{64\ 1/2}$ Grammostomum

$\frac{55\ 1/2}{77\ 1/4}$ Tubuli

$\frac{55\ 1/4}{86\ 1/4}$ Planulina ?

$\frac{55}{86\ 1/3}$ Textilaria

$\frac{51\ 1/4}{73}$ fragment of a spiral Polythal.

$\frac{45\ 1/2}{81\ 1/8}$ Planularia ? good one

No. 1955 Slide 1 b. Lem Springs W. Texas

62 1/4 / 76 Spiroplecta (large one near W. Edge of Cibud } U.S.M.B.S.

" " Small one N.W. of last

61 1/4 / 70 1/4 " spire broken off - broad one.

59 1/2 / 80 Grammostomum ? large opaque

57 / 76 " " "

55 3/4 / 80 1/8 Spiroplecta

55 / 70 ?

55+ / 68 3/4 Textilaria

" Spiroplecta N. of last obscured

53 3/4 / 78 3/4 Textilaria thick walled

" Rotalia ? E. of last

51 1/2 / 75 1/2 Planulina ?

" Textilaria S. of last - slender one

45 3/4+ / 66 1/4 Textilaria

39 1/4 / 66 1/4 Planulina ?

" Textilaria slender one S.E. of last

37 1/2 / 74 1/2 Textilaria

No. 1051 2a. Jackson, Miss.

63 3/4 / 68 Sagrina longirostris Ehr. See Mik T. 32 II 22
51 1/2 / 73 7/8 Textilaria striata with globules on side
54 1/8 / 66 1/4 Crustacean (bivalve)
45 1/3 / 67 3/4 Grammostomum? fragment retaining soft parts
42 1/2 / 80 7/8 Spiroplecta Rossula Ehr. (good)

No. 1052 2b. Jackson, Miss.

59 / 77 1/4 Spiroplecta Rossula Ehr. frag't with spine
56 1/4 / 80 Textilaria striata Ehr.
55 3/4 / 74 1/2 Spiroplecta Rossula Ehr.
54 1/2 / 60 1/4 Phanerostomum asperum? Ehr. Mik Tab. 32 figure
54 1/2 / 25 1/2 Spiroplecta Rossula Ehr. frag't.
50 3/4 / 67 1/4 Grammostomum large fragment.
50 / 27 Nodosaria, obscured or as opaque
44 1/4 / 60 Grammostomum good
43 1/8 / 66 1/4 Spiroplecta Rossula fragment.
42 / 64 3/4 large oval body?

No. 1053 3a. Alabama

Matrix of Zenglodon

63/78 1/3 Casts of Quinqueloculina

62 1/4/67 3/4 Planulina?

" " broken just above last

62/86 Univalve shell

56/70 1/2 Guttulina? 2 specimens

43 1/2/75 1/4 Spirulina

42 1/2/82 Grammostomum

40 7/8/75 7/8 Silicified Grammostomum - faint.

40/74 1/2 Spiral Polythal.a

No. 1054 H a. Charleston S.C.

49 1/4 / 69 1/3	Globigerina	130 feet by stage indicator
67 3/4 / 80 1/4	Uvigerina	
65 3/4 / 72 1/2	"	
64 3/4 / 75 1/2	Grammostomum	
62 1/2 / 61 1/2	Nodosaria	
61 1/2 / 72 1/2	Textularia	
58 1/2 / 83 1/2	"	
56 3/4 / 62	Dentalina ?	
56 / 76 1/2	?	
55 1/2 stage 25=57	Spiroplecta	n. sp.
55 1/4 stage 25=57	"	Same species, v. of last
55 1/2 / 70 3/4	Grammostomum	long one
54 3/4 / 81	"	curved
40 1/4 / 59 3/4	"	"
39 3/4 / 77 1/4	Rotalina ?	
36 1/3 / 72 1/2	Textularia	long one.
36 3/4 / 76 1/2	Grammostomum	long - good
35 3/4 / 72 1/2	Spiroplecta	
36 / 55 1/4	"	

No. 1055 4 b. Eocene of So. Carolina
with Ostrea sellaeformis

$\frac{43\,3/4}{75\,1/4}$ Cast of a spiral Polythalamia

$\frac{55}{63\,1/8}$ " " "

$\frac{51\,1/2}{76\,1/4}$ green sand cast of parallel tubes of a Coral?

No. 1056 4 c. Eocene of So. Carolina
with Ostrea sellaeformis

$\frac{54}{81\,1/4}$? spiral Polythalamia

No. 1057 4 d. Eocene of So. Carolina
with Ostrea sellaeformis

43 1/2 / 63 Cast of a spiral Polythalamia
56 1/2 / 76 " " pores of a coral
57 1/2 / 77 1/2 " " cells of a spiral Polythal.a fragt.

No. 1058 4 e. Eocene of So. Carolina
Drayton Hall

60 1/2 / 74 Cast of spiral Polythal.a ?
57 / 65 " " Grammostomum, small but fine
55 1/2 / 65 7/8 " " Nodosaria
52 3/4 / 70 1/4 " " small spiral
" " " cells of Grammostomum, a fragt.
41 7/8 / 72 " spiral
40 / 64 1/4 " spiral, broken but good

No. 1059 5a. Eocene of No. Carolina
with Scutella Lyelli

63 1/2 / 69 1/4	Green sand cast of Eschara ?
60 1/4 / 67 1/2	Cast of Textilaria
60 3/4 / 60 1/4	2 casts of Rotalia ? small
55 1/4 / 78 1/4	Cast " ? large
51 / 73 3/4	" " Tubule
48 3/4 / 77 3/4	" " Spiroloculina ?
47 7/8 / 62 1/4	" portion of a spiral
46 3/4 / 70 1/4	" spiral univalve mollusk
42 1/4 / 36 1/2	" " Rotalia ?
"	chrait tubes (casts of cells of coral ?)
36 3/4 / 67 3/4	Cast of Eschara ?
"	" " Rotalia N. E. of last
"	" " Tubule S. of last

No. 1060 5 b. Eocene of No. Carolina
with Scutella Lyellii

	Casts of
54 3/4 / 28 3/4	Spiral mollusk
54 / 68 1/2	branching tubuli, curious
53 1/4 / 76 1/2	Spiral Polythal.a
51 3/4 / 63 1/4	Spiral " with pores

No. 1061 5 c Eocene of No. Carolina
with Scutella Lyellii.

66 3/4 / 70 1/2	Casts of a Spiral Polythalamia good
58 / 80 3/4	" " Tubuli
"	" " pores of a coral? N. of last
53 / 29 7/8	" " Spiral Mollusk
48 1/4 / 60 1/2	" " Grammostomum? N. of air bubble
48 / 73	" " " fragment good
43 / 74	" " Spiral Pol. good
"	" " tubuli E. of last.
43 1/2 / 70	" " Quinqueloculina? fine
"	" " Tubuli W. of last.

No. 1012 5 d. Eocene of No. Carolina
with Santella Lyellii.

Casts of Polythalamia

No. 1063 6 a. Near Ft. Holly N.J.

Casts of a Spiral Polythalamia

59/64 3/4

56 7/8 " Cells of a " fragment
63 1/2

54/76 " Spiral "

48/72 3/4 " " " large

" " Tubuli & E. of last

47 3/4 " " large bunch
63 3/4

47 1/8 " Spiral Polythal^a good
71

44 1/2 " Tubuli
68

41/74 " Spiral

39 1/8 " fraction of a Spiral, good
72 7/8

No. 1914 6 b. Near Int. Holly N.J.

Casts of Polythalamia

63 3/4 / 78 1/8	large Spiral,	red cast
63 1/2 / 64 1/4	" "	green sand
61 3/4 / 73	" "	red
60 3/4 / 61	" "	brown good one
60 7/8 / 79 7/8	" "	green sand
"	casts of tubuli N.W. of last	
60 / 81 1/8	Textilaria?	frag't.
51 2/3 / 61 1/2	Spiral	brown, good
53 1/4 / 72 3/4	Textilaria?	2 fragments good
52 1/4 / 66 3/4	Spiral	siliceous good
51 / 76 1/4	Tubuli	"
51 / 27	Spiral	fragment good
49 / 23 1/4	"	2 cells green others red
49 / 31	"	light colored good
46 / 21	"	dark brown "
42 / 79 1/2	"	red, fine
41 / 73 1/2	"	cells partly green, partly red
36 / 60 3/4	"	green sand fine.

No. 1065 6 c. Near Int. Hoely, N. J.

No. 1066 7a. Hessenberg, near Hanenstein
Casts of cells of Nummulites complanata
left by action of Acl.

No. 1067 7b. Hessenberg near Hanenstein
Casts of cells of Nummulites complanata

No. 1068 7c Hessenberg near Tranenstein
Section of casts of cells of Nummulites complanata.

No. 1069 7d. Hessenberg, near Tranenstein.
Casts of cells of Orbitulites, Nummulites complanata &c.

No. 1070 Je Nessenberg near Tranenstein
casts of cells of Orbitulites complanata

No. 1071 Slide St. Johnson's Guano. Card B.

$\frac{47}{33}$ 1/2 Actinocyclus, with a circle of vacant spaces
fragment 1/2 of disc $\frac{47}{34}$ 1/4

?? $\frac{50}{20}$ 3/4 Coscinodiscus disciger
Arachnoidiscus Japonicus $\frac{41}{63}$

No. 1072 B. Guano, Judge Johnson (Card of. reclaimed.

56/44 Aulisens a little broken

56/77 3/4 Aulisens whole, S.E. of a Coscinodiscus

53/38 1/4 Arachnoidiscus

51/80 3/4 Lithopera? obscured. S. of a Cocconeis

56/81 (or 82) Halicalyptra Pelatus? a fragment

Cocconeis n.s. } C.S.
Achnanthes " "

No. 1073 C. Johnson's Guano - light portions

No. 1074 D. Guano, from Chincha Is. Peru.

$\frac{41\ 3/4}{41\ 1/2}$ Anlacodiscus 3 feet

$\frac{44}{33\ 1/8}$ Chaetoceros

No. 1075 E. Guano, Johnston, Cand. A.

$\frac{45\ 3/4}{60\ 3/4}$ Entophyla australis

$\frac{42\ 1/2}{68\ 3/4}$ "

$\frac{37}{74\ 1/4}$ "

$\frac{36}{68\ 1/2}$ "

$\frac{53}{45\ 1/4}$ Grammatophora serpentina

$\frac{42\ 3/4}{67}$ " Sling ribbed right

No. 1076 F. Guano from A. S. Johnson

50 1/2
39 1/2 Coleoptera

No. 1077 G. Peruvian Guano A. S. J. 1855

No. 1078 H. Peruvian Guano, Cand A.

32/76 (1/8) Amphitetras

67+ (1/4) / 40 1/8 one valve of another (Amphacodiscus!)

(44 3/4 / 18+) 45/18 Eupodiscus? tripes (Johnson) Sill. Journal.

(34 3/4 / 32 2/3) 35/32 1/2 (1/4) do.

52/33 1/2 do blue epidermis partly removed.

(31 1/4 / 35 1/2) 31+/36- do perfect - look at it as opaque

50/82 (1/4) do & Amphacodiscus Peterfii? in one field, both perfect & beautiful

60 (1/8)/20 Amphacodiscus Peterfii? with 3 ft. only

37/90 1/2 (1/4) " " large & perfect

45+/24 Trachnoidiscus

48/62 (1/4) Amphiscus. genuine like the guano & Jeddo (bay species, also at Monterey)

65/45 (2/3) 31 1/2/23 (3/4) 51 1/2/16 (3/4) 71/16 (70 3/4 / 15 7/8) Amphisci? same shell I sent before, but better specimens.

45 (1/8)/84 Coscinodiscus?? with a handle same shell as in Slide 7. though (imperfect

55²/36 Actinoptychus Superba

57/68 Hyalodiscus Californicus B. } C.S

No. 1079 I. Peruvian Govt. Guano.

1	39 1/2 / 37	new? Euspodiscus? with 2 feet Anliscus? Ceratanlus?	39 1/2 / 37 1/8
2	34 / 43 1/2	do do broken	33 3/4 / 44
3	36 / 37	Triceratium distorted	35 3/4 / 37
4	35 1/2 / 38	Asteromphalus (double) 5 divisions	35 1/4 / 38 1/4
5	40 / 40+	Triceratium not distorted	40 / 40 3/4
6	41 1/2 / 88	" distorted differently	41 1/4 / 87 1/4
7	47 3/4 (24 1/2) / 23	Asteromphalus 7 div.	47 / 24
8	52 / 47	like Nos. 1 & 2 good specimens	51 1/2 / 47 1/8
9	39 3/4 / 32	do do	39 1/2 / 32 1/2
10	43 1/2 / 50	Triceratium turning into a 4 ceratium	43+ / 50
11	41 / 34	" with a withered leg.	40 / 35+

No. 1080 J. Guano, Chincha Is. Peru.
8 distinct. A.S.J. 1850

No. 1081 K. Guano, Dr. Vanarsdale

No. 1082 L. Permian Gnomo. Dr. Vanarsdale

$\frac{57\ 7/8}{90\ 1/4}$ Cladoraphodiscus

near upper part of ring, & W. of small (air bubble

$\frac{63}{84\ 3/4+}$ Asteromphala. S. of large brown spot which

is at top of field of view,

when this shell is at centre -

$\frac{58\ 7/8}{78\ 1/2}$ Asteromphala, in line joining two

specimens of Mesocena

No. 1083 M. Gnomo. Dr. Vanarsdale

No. 1084 N. Guano, Chincha Is.
Dr. Vanausdale

50 1/8 Anlacodiscus 3 feet
74 3/4
43 1/8 " 4 "
85 1/2
45 3/4 Aclinophaenia
34 7/8
washed with croton water

No. 1085 O. Guano. Patagonia
Dr. Vanausdale

No. 1086 P. Guano. Patagonia
Ignited Dr. Vanausdale

No. 1087 Q. Guano Ichabo
Dr. Vanausdale

No. 1088 R. Guano, Ichabo
Dr. Vanausdale

No. 1089 S. Schabae Guano-
Infusoria N. Deane

No. 1090 T. Schabae

No. 1091 U.
Recent Infusoria from Ichabo Guano.

No. 1092 V.
Recent infusoria from Saldanha Bay Guano

No. 1093 W.
Recent infusoria from Guano Saldanha Bay

No. 1094 X. Guano.
Arachnoidiscus Japinicus 28 rays

No. 1095 Y. Guano.

$\frac{44\,3/4}{36}$

No. 1096 Z. Guano.
Triceratium

No. 1097 A' Guano

No. 1098 B' Guano, Chincha Is.

No. 1099 C' Guano.
Chaetoceros new form

No. 1100 D' Guano, E. coast of Africa
Entophyla australis

No. 1101 E' Tom Grant.
In balsam, July 1st. Mr. Edwards N.Y.

No. 1102 F' Same as above

Fossil Polythalamia

No. 1103 Slide 5. Monterey, California

Extracted by means of potassa, from a greenish stone

72/69 7/8 Rotalina macrostoma B.

66 7/8/85 1/4 Grammostomum

66 1/8/64 1/4 large fragment of ?

67 1/4/28 2/3 Nonionina showing orifice

" Grammostomum E. of last

65/64 1/8 Bulimina californica good one

63 7/8/71 " " another position

63 1/4/26 3/4 Rotalina macrostoma B.

62/21 1/4 " " showing orifice

56 1/2/81 1/8 " " edge view

" Bulimina Californica B. S. of last

52 7/8/30 " " " good

50 1/2/20 " " "

50 3/4/17 1/4 Rotalina macrostoma B.

48 1/2/69 1/2 Bulimina californica

46 1/2/81 1/4 Rotalina macrostoma B. Side view showing orifice
2 specimens

46 1/2/79 1/2 Grammostomum capitatum

46 3/4/30 " another species

45 1/2/86 3/4 Bulimina Californica, fragment of a large one shows pores & sutures well –

43 1/2/73 1/4 Bulimina californica good

43 3/4/68 3/4 " another species

43/23 Grammostomum Capitatum B.

39 3/4/81/2 Rotalina macrostoma B. good basal view –

38 3/4/72 7/8 Grammostomum nov. sp.

39 1/4/26 Bulimina Californica B.

" Rotalina macrostoma B. S. of last – top view

39 7/8/61/3 Grammostomum capitatum ? B.

Slide A. continued

39 3/4 / 42 1/8	Grammostomum?	deformed?
37 / 29	Bulimina	2 species?
37 1/8 / 40 1/4	"	another species

No. 1104 B. Monterey, Calif.

71 1/4 / 85 3/4 " Rotalina macrostoma B. edge view W. of last

67 + / 70 3/4 Bulimina Californica? B.

66 3/4 / 66 1/4 Grammostomum capitatum B. side view

66 / 70 1/4 Rotalina macrostoma B. top view 2 spec.ns

64 7/8 / 75 1/4 Grammostomum broad one

62 3/4 / 82 1/4 " large one broken

61 / 64 2/3 " capitatum B

61 / 67 " " side view

57 1/2 / 68 1/3 " small one

54 1/2 / 89 1/2 " ?

54 7/8 / 69 7/8 Rotalina macrostoma B. oblique base view

53 / 63 Grammostomum capitatum B. chamber entirely well

53 / 68 1/2 Globigerina small one

51 3/4 / 80 1/4 Bulimina Californica

51 3/4 / 89 Grammostomum capitatum B.

" Rotalina macrostoma B. just E. of last

49 7/8 / 92 3/4 Bulimina slender one

48 / 69 3/4 " Californica B.

46 3/4 / 77 1/3 Rotalina macrostoma B. 2 specimens

46 3/4 / 70 7/8 Bulimina broad one

" " slender one N.E. of last

43 3/4 / 67 1/4 Bulimina broad one

39 1/2 / 61 1/2 " slender one

40 / 74 " Californica side view

38 7/8 / 81 1/4 Grammostomum capitatum B.

36 3/4 / 70 1/2 Bulimina broad one showing orifice

P. (Continued)

32 3/4 / 65 1/4	Pulmina	slender
31 7/8 / 81 1/2	Grammostomum?	nov. sp.

No. 1195 A. Monterey

62 3/4 / 69 1/4 Bulimina gracilis B.

62 1/4 / 64 3/4 Grammostomum capitatum B.

60 3/4 / 81 1/4 Bulimina gracilis B.

59 / 66 3/4 " Californica

58 / 64 3/4 Strophocoms

58 / 66 1/4 Rotalina macrostoma B. edge view showing orifice

54 3/4 / 66 3/4 " " top view

54 1/2 / 62 1/4 " " oblique edge view good.

53 / 63 Bulimina gracilis B.

52 7/8 / 67 1/4 " "

50 1/2 / 62 1/4 Grammostomum capitatum B. side view with orifice good

41 1/2 / 63 1/2 " curiously deformed

35 7/8 / 76 7/8 Rotalina macrostoma B. oblique top view

33 / 79 3/4 Grammostomum capitatum B.

No. 1106 D. Monterey

70 1/8 / 60 2/3 Rotalina macrostoma B. edge view showing orifice

62 3/4 / 64 1/4 Grammostomum broad one

57 3/4 / 57 3/4 Rotalina macrostoma B. edge view with orifice

50 / 61 1/8 " " oblique basal view

47 3/4 / 70 3/4 Bulimina? gracilis

45 3/4 / 71 7/8 " "

46 7/8 / 68 7/8 " Californica? young

44 1/2 / 66 " gracilis on left

" " " 2 smaller ones

" " Californica young? on right

41 1/2 / 68 7/8 Nonionina? small

38 3/4 / 74 Bulimina Californica B. edge view

34 7/8 / 62 3/4 " "

" " " jnr.??

34 1/8 / 60 1/8 " gracilis? 2 specimens.

No. 1107 E. Lem Springs, W. Texas.

58 7/8 / 66 1/2 Textilaria

55 3/4 / 80 3/4 "

55 1/2 / 80 1/2 Green Sand cast of Polyth.a N.E. of last.

53 3/4 / 66 1/2 Textilaria

53 / 78 3/4 Grammostomum

52 / 76 Plamulina ?

52 / 78 1/3 "

48 1/2 / 80 1/2 Textilaria

49 / 82 1/4 Phanerostomum ?

" Spirophecta touching last on S.

46 / 62 "

" Plamulina ? S. of last

"

" Textilaria S. of last

45 3/4 / 61 1/4 " W. of last

44 1/2 / 72 3/4 { Textilaria, Plamulina ? } 2 specimens

41 1/4 / 85 Textilaria striata ? broken

" Grammostomum. large fragment E. of last.

37 / 75 3/4 Plamulina ? 8 specimens

35 / 69 3/4 Grammostomum

No. 1108 F. Upper Missouri
Yellow calc. marl

$\frac{39\,3/4}{63}$ Phanerodonum dilatatum? good one.
" Textilaria striata? just above last
$\frac{69\,7/8}{26\,1/4}$ Spirophecta Americana
$\frac{55\,5/8}{76\,1/4}$ " "

No. 1109 G. Upper Missouri.
Yellow calc. marl

No. 1110 H. Upper Missouri
Yellow Calc. Marl

No. 1111 I. Upper Missouri Yellow Calc. Marl

64 1/2 / 67 1/3 Spiroplecta americana
62 / 72 1/4 " "
60 / 28 1/2 Textilaria missouriensis?
58 1/2 / 29 1/2 " lunycomus?
57 3/4 / 66 1/4 " gomphocomus
55 7/8 / 75 1/8 " missouriensis
53 / 77 1/4 Phanerostomum
49 / 67 4 "
" " E. of last
41 1/8 / 78 1/8 Spiroplecta americana
40 1/8 / 70 1/2+ Phanerostomum lacerum?

No. 1112 J. Columbus, Mississippi
Coarsest parts. 260 feet

No. 1113 K. Columbus Mississippi
Coarsest parts. 260 ft.

No. 1114 L. Columbus, Mississippi

52 1/2 / 19 1/4 Nodosaria } 140 ft.

47 1/4 / 63 1/2 Soft parts of a Polythal.a

No. 1115 U. Columbus, Mississippi 140 ft.

42 1/4 / 17 1/4 Spiroplecta Rosula Ehr. frag.

No. 1116 N. Columbus, Mississippi
Heavy part, 160 feet
+6 7/8 / 61 3/4 Dentalina ? spinescens B. nov. sp.
+7 1/2 / 84 Spiroplecta Rossula

[Slide no. 1116 has scratched in it the reading "140 feet". RKEdgar 3/1978]

No. 1117 O. Columbus, Mississippi
Heaviest portion 260 feet.

No. 1118 P. Jackson, Mississippi

59 3/4 / 26 1/4	Nodosaria	
58 / 62 1/2	"	
54 1/4 / 78 3/4	Grammostomum	large one broken
52 3/4 / 80	"	large one
52 3/4 / 71 2/3	"	small (with black specks.)
52 3/4 / 24 3/4	Spiroplecta rossula,	long fragment
48 1/4 / 75	"	" fragment
47 1/2 / 82 3/4	Grammostomum	
43 1/2 / 76 1/2	Spiroplecta rossula,	with the spire-
"	Textilaria striata	N. of last

No. 1119 Q. Jackson, Mississippi

61 1/8 / 67	Spiroplecta Rossula	
60 / 72 3/4	Spiral Polyhal[illegible]	with projections
58 / 75 1/2	Spiroplecta Rossula	fragt.
56 / 70 7/8	" "	with spire
54 7/8 / 70	Grammostomum	
51 1/4 / 69 3/4	"	
52 / 62	large spiral	
51 / 26 3/4	Nodosaria Scorpis ? ?	
50 / 77 1/4	Grammostomum	
45 / 68 1/4	Nodosaria ?	
"	Textilaria striata ?	N. W. of last
47 3/4 / 67 3/4	?	
48 / 65	? spinose form	
"	Spiroplecta Rossula	fragt. N. of last
"	Textilaria striata	S. of last

No. 1120 R. Mission Station, Miss-

No 1121 S. Same as above

No. 1122 I. Alabama

Matrix of Zenglodon

59/77 good cast of a spiral Polythalamium shell

46 3/4 / 82 3/4 Cast of a Textilaria

46 3/4 / 72 " with concentric rings

No. 1123 U. Centrepot Alabama

No. 1124 V. Centreport, Alabama

No. 1125 V. Centreport Alabama

56 1/2 / 60 Dentalina ?

51 1/4 / 69 3/4 "

50 1/8 / 27 3/4 " ? large spinose one

62 / 67 3/4 Vaginulina

No. 1126 X. Eocene of So. Carolina
Polythalamia with Ostrea Vellaiformis

No. 1127 Y.
Chalk cleaned with co2

Fossil Diatoms

No. 1128 Slide 1a. Richmond Va.

62 7/8 / 74 1/2 Coscinodiscus lineatus near a large broken
67 7/8 / 70 Coscinodiscus oculus-iridis Ehr. (Cos-oc-iridis)
" Gallionella sulcata, column of 7 joints (touching margin of last
68 1/2 / 70 1/4 Craspedodiscus coscinodiscus Ehr.
68 1/4 / 69 2/3 Coscinodiscus? ?
63 1/8 / 79 1/2 Navicula Sigma large one
63 / 62 3/4 ? curious fragment with coscinoid marking of festooned margin.
62 / 84 1/4 Actinoptychus 22 rays.
59 1/4 / 64 1/8 Craspedodiscus coscinodiscus just above a big air bubble
58 1/2 / 65 7/8 Cyclephania diadema, seen obliquely showing teeth
57 1/2 / 27 Coscinodiscus gigas Ehr. with a small Cos-oc-iridis over it
56 / 69 3/4 Aulacodiscus crux - seen obliquely -
58 1/8 / 68 1/2 Coscinodiscus perforatus - broken on one side
53 / 62 3/4 Coscinodiscus lineatus
52 3/4 / 60 1/2 Coscinodiscus oculus-iridis -
" Actinisens seen obliquely S.E. of last
50 7/8 / 69 Goniothecium odontella Ehr.
50 7/8 / 62 1/3 Navicula Sigma Ehr.
50 / 65 2/3 Denticella with spines - (Dyscoeros?)
49 1/4 / 82 1/2 Polycistin
" Chaetoceros close to last on E.
47 / 76 3/4 Mastogonia 17 rays
49 3/4 / 69 Goniothecium odontella
" " " E. of last
48 3/4 / 82 " " E. of air bubble
45 3/4 / 74 3/4 Actinocyclus denarius - 10 rays - blue disc
43 3/4 / 78 1/8 Goniothecium odontella Ehr. -

Slide 1a. (Continued)

46 3/4 / 77 1/2	Maslogonia Actinoptychus
41 / 74 3/4	Triceratium obtusum Ehr.
38 3/4 / 79 1/4	Goniothecium odontella
37 3/4 / 70 1/4	Coscinodiscus gigas small one.
44 7/8 / 71 1/4	Denticella tridentata side view
43 1/2 / 67 1/4	Triceratium amblyoceros Ehr.
40 1/4 / 72	Goniothecium oblusum? Ehr.

No. 1129 Slide 1 b. Richmond Va.

44 1/2 / 67 1/2 like the next, 1 S.W. of Craspedodiscus Coscinodiscus

55 3/4 / 80 3/4 Curious fragment with festoned edge just below an air bubble

58 1/2 / 80 1/2 Another piece of same.

51 7/8 / 71 1/8 Another piece

66 1/2 / 29 7/8 Actinoptychus quaternarius Ehr.

64 / 60 7/8 Chaetoceros recurvum B.

" Actinocyclus bioctonarius - blue disc, just below last

62 3/4 / 69 1/2 Coscinodiscus lineatus 2 specimens

62 1/2 / 32 1/8 Actinocyclus bioctonarius blue disc

60 7/8 / 26 7/8 Navicula sigma Ehr.

60 / 23 1/4 Triceratium obtusum ? deformed See Ehr. Mik. Tab. 18. fig 49

59 7/8 / 61 Coscinodiscus lineatus

" Systephania 2 specimens touching last

" " showing teeth, S.E. of last on edge of field

58 7/8 / 67 Triceratium

58 / 30 2/3 Craspedodiscus Coscinodiscus Ehr.

57 / 73 3/4 Gallionella sulcata Ehr. column of 10 joints touching a broken Cosc. oc-indis

54 1/4 / 63 1/8 Coscinodiscus punctatus Ehr. elliptical

53 3/4 / 29 Rhizosolenia Americana

" Fragilaria laevis just above last

45 / 26 3/4 Polycistina

38 3/4 / 66 3/4 Denticella tridentata Ehr. between two Coscinodisci
Biddulphia?

38 7/8 / 26 1/8 Mesocena diodon

" Another N.W. of last partly obscured

36 3/4 / 74 1/4 Triceratium amblyoceros Ehr.

35 1/2 / 74 7/8 Craspedodiscus Coscinodiscus

Record incomplete in all parts

No. 1130 1c. Richmond Va.

35 1/4 / 63 1/3 Pyxidicula limbata Ehr.

63 3/4 / 63 Gomiothecium adantella

This slide has numerous specimens of Coscinodiscus, of Rhizosolenia Americana &c

No. 1131 1d Richmond Va.

54 1/2 / 82 1/2 Coscinodiscus gigas

52 1/2 / 76 1/2 Chaetoceros incurvum B.

" 2 long specimens of Synedra - crossing near it on E.

48 7/8 / 76 Navicula Sigma Ehr. 2 specimens (Gyrosigma)

" Dicladia? clathrata Ehr. between last two

48 / 25 1/2 Navicula (Gyrosigma) Sigma Ehr. near an empty ring - 2 specs & part of a large one

" Synedra capitata? Ehr. just under the big one (in my Microscope)

39 7/8 / 67 1/2 Dicladia? clathrata Ehr. See Mik. Pl. 18 fig 100 at bottom left, looking a Coscinodiscus which looking an Actinocyclus

42 3/4 / 65 Bacteriastrum with 8 rays still unbroken & wanting -

No. 1132 1e Richmond, Church Hill, Va.

1	64 1/2 / 71 3/4	Chaetoceros incurvum
2	60 1/2 / 72	Pyxidicula (Stephanopyxis?) limbata?
3	"	Mesocena diodon near last.
4	55 / 62 1/2	Coscinodiscus oculus-iridis
5	"	Chaetoceros incurvum B. W. of last
6	"	Denticella tridentata S. of last
	"	Coscinodiscus punctatus Small one W. of No. 5
	52 1/2 / 77	" oc. iridis large
	44 1/4 / 82 1/2	Ditylum virginicum B.
	41 3/4 / 61 3/4	Denticella tridentata Ehr.
	"	" E. of last
	40 1/8 / 82	Triceratium amblyoceros
	35+ / 68 7/8	Helmiophychus vicenarius

record very incomplete

No. 1133 1 f. Richmond Va. (Church Hill)

38/84 1/8 Cocconeis scutellum with net-work at base.

38 1/2/69 1/4 Coscinodiscus oculus-iridis, large one with broken margin

57/28 1/4 Cyclotella n. sp.

" Actinocyclus senarius. touching last.

" Mesoapta alternata B. S.W. of last. near it.

" Navicula sigma W. of last two

62 1/2/65 1/4 Stephanogonia (small one W. of a bit of blue

61 3/4/75 1/4 Actinocyclus 11 rays.

61 1/2/66 1/4 Coscinodiscus oculus-iridis.

58 7/8/82 Actinocyclus pyxidicula Ehr. seen edgewise
W. of a bit of Pyxidicula
N. of Cosc. lineatus

58 3/4/80 2/3 Actinocyclus 13 rays

58 3/4/26 7/8 Empty ring

" Biddulphia neglecta B. inside of the ring.

" Systephania " " "

52/73 Xanthiopyxis alata W. of large bit of Cosc.

52/28 Goniothecium barbatum S & W. of 2 bits of Synedra

51/24 1/3 Actinocyclus pyxidicula

50 1/8/79 7/8 Halicalyptra virginicum

47 1/4/82 1/4 Omphalopelta areolata? Ehr.

No. 1134 1 g. Richmond Va.

54 1/8 / 78 3/4 empty ring)

" ? S. w. of last, close to it.

65 3/4 / 79 Peristephania edge view oblique

? Coscinodiscus oculus-iridis - well centred

61 7/8 / 83 Dicladia 61 3/4 / 83 stage

58 1/2+ / 85 1/2+ Craspedodiscus 58 1/2 / 85 3/4 "

57 1/3 / 77 1/2 Navicula (Synyoma) sigma ? 57 1/4 / 77 1/2

56 3/4 / 67 3/4 Coscinodiscus gigas good well centred

Navicula sigma 57 1/2 / 72 3/4

54 1/2 / 75 1/8 Coscinodiscus oculus-iridis 54 1/2 / 75 1/8 stage

63 1/2 / 79 1/4 " " " 63 1/3 / 79 1/2

56 / 76 7/8 Navicula sigma 56 / 77

57 / 81 2/3 N. of 2 Coscinodiscus

54 1/4 / 87 1/4 Craspedodiscus

53 3/4 / 87 1/4 Halionma small. S. E. of last

49 1/8 / 63 Actinoptychus 18 rays

49 3/4 / 64 3/4 Gallionella sulcata column.

50 1/4 / 63 2/3 Peristephania ? with inner ring

46 1/2 / 91 Rhaphoneis rhombus - near end of a filament

41 3/4 / 71 3/4 Zygoceros ?

36 3/4 / 83 1/2 Denticella tridentata ? base view

No. 1135 1 h. Richmond Va.
Sigmoid Navicula in rings

No. 1136 1 i Richmond Va.
(small slide)

45/63 1/4 Coscinodiscus
45/62 Actinoptychus with air
50 1/2/74 1/2 Navicula Sigma
46 1/2/72 Coscinodiscus
51/65 Gonothecium

No. 1137 1 j. Richmond Va.

52/60½ Gomothecium odontella

60½/70 Actinoptychus 20 rays?

66½/28 Coscinodiscus oculus-iridis

" " " " E. of last.

54/66 Denticella tridentata Ehr.

No. 1138 1 k. Richmond Va.

68 3/4 / 71 1/4 Coscinodiscus oculus-iridis, slightly obligne

67 / 89 7/8 " " fine one

67 1/2 / 72 1/4 Denticella tridentata

67 3/4 / 63 1/8 Omphalopelta areolata Ehr.

65 3/4 / 87 1/4 Actinoptychus blue 13 rings

63 1/4 / 28 1/2 Gallionella sulcata Ehr. column of 12 joints

61 2/3 / 76 1/8 Coscinodiscus gigas small one

61 7/8 / 89 1/2 " " "

61 1/8 / 64 1/3 Isthmia obliquata? a fragment

59 / 70 7/8 Dictyocha crux touching an empty ring

58 / 61 7/8 Goniothecium barbatum Ehr. S. of a small Cosc. oc. iridis

58 1/4 / 63 1/4 Actinoptychus blue disc 16 rays

" Dictiadia? clathrata Ehr. S.W. of last in the Crux

58 1/8 / 76 3/4 Dictyocha crux 2 specimens

" Actinoptychus senarius small N.W. of last

" " septenarius S.E. of the Dictyochae

" Gallionella sulcata, numerous rings in same field as above.

No. 1139 1 l. Richmond Va.

49 3/4 / 70 3/4 Chaetoceros

56 7/8 / 64 1/4 Craspedodiscus

63 1/4 / 64 1/2 Stephanopyxis?

61 3/4 / 67 Coscinodiscus oculus-iridis?

61 1/2 / 76 " "

" Rhaphoneis rhombus S. of last

61 3/4 / 77 1/2 Denticella tridentata touching a Cosc. (endiscus

57 / 68 1/4 Rhaphoneis, long one, touching a bit of Coscinodiscus

" bit of Coscinodiscus, showing structure well.

56 3/4 / 74 1/2 Coscinodiscus oculus-iridis good

56 3/4 / 75 1/4

55 3/4 / 77 Coscinodiscus oculus-iridis

55 1/3 / 73 1/4

54 / 73 Triceratium amblyoceros

39 1/2 / 78 1/2 Navicula (Gyrosigma) digma

34 1/4 / 77 1/2 Mastogonia small

34 / 76 1/4 Festooned disc - fragment N. of a Coscinodiscus
{E. of a Chaetoceros

No. 1140 1 gr. Richmond Co.

65/63 Pinnularia like P. lyra E. of air bubble

64 1/4/67 3/4 Dictyocha crux

65 1/4/60 1/8 Coscinodiscus lineatus

65/67 1/2 Navicula Sigma Ehr.

" fragment of ? with pectoms - E. of last

65 1/8/66 1/4 Actinoptychus senaria 2 specimens

" Syntephania touching last

" Navicula Sigma. just above the group of 3.

64 3/4/26 3/4 Craspedodiscus coscinodiscus Ehr.

" Navicula Sigma - just below last

64 7/8/62 Actinoptychus senaria

63 1/2/68 1/4 Navicula Sigma 2 specimens

" Gallionella sulcata - one ring near each of the last

61 1/8/65 Actinoptychus ceres Ehr. 22 rays.

61 1/4/64 1/2 Chaetoceros - just below a broken Coscinodiscus

61 1/4/25 Coscinodiscus punctatus (large one) elliptical

" " " small one S.W. of last

58 7/8/71 Triceratium amblyoceros - with a spine at each angle

56 3/4/25 1/4 Actinoptychus sedenarius. - 16 rays

51 3/4/81 1/2 Dicladia clathrata

53 1/2/62 1/8 Denticella tridentata Biddulphia

49 1/4/62 1/2 Rhizosolenia - very obtuse base - between two large fragments of Coscinodiscus

49 1/2/26+ Gomothecium ? — ? turgid.

48 1/2/61 1/8 Chaetoceros N. W. of a Coscinodiscus

47/64 1/2 Gomothecium ? barbatum Ehr.

" Dictyocha crux - S.E. of last

46 1/4/22 3/4 Gomothecium odontella

No. 1140 1 m. (Continued)

45+/82 Coscinodiscus gigas - (small) 2 valves overlapping.
" Peristephania just above last.
43 1/8/72 1/3 Gomothecium Rogersii
40/80 1/4 Craspedodiscus coscinodiscus
" Coscinodiscus lineatus on left of last
" Navicula sigma - 3 specimens above + on right of C. coscinodiscus
38 3/4/67 1/4 Rhizosolenia americana
" Craspedodiscus coscinodiscus
" Navicula sigma } N. of last
38 3/4/61 Denticella tridentata
37 1/4/61 3/4 Actinoptychus Jupiter
37+/45 3/4 Chaetoceros good one, S.E. of large air bubble
35 7/8/62 1/8 Dictyopyxis crenata
35 1/4/62 1/4 Coscinodiscus perforatus Ehr. S.E. of last
51/23 1/2 Denticella tridentata, young
48 1/2/25 1/2 " " " end view
47/73 Rhaphoneis amphiceros Ehr.
45 1/2/66 1/2 Actinisens sirius - touching a bit of Coscinodiscus
43 1/2/71 Fragilaria levis Ehr.
41/71 Gomothecium odontella end view
38 3/4/28 1/2 Coscinodiscus oculus-iridis.
" Actinoptychus octodenarius - touching last.
36 7/8/65 1/4 Fragment of ? with festoons
" Syetephania ? touching last
" Coscinodiscus lineatus just above

No. 1141 1m Richmond Va.

69 1/4 / 70 7/8 Coscinodiscus lineatus Ehr.

66 3/4 / 75 Actinoptychus sedenarius

66 / 67 7/8 Mesoapta minima (very small ⊞, near lower edge of a broken Coscinodiscus

" Mesocena diodon N. W. of last

55 1/8 / 69 1/8 Chaetoceros - - ? fragment with one horn, inclining a long vertical filament -

64 1/2 / 67 Actinoptychus vicenarius

63 2/3 / 68 Ditylium ? Small, in the space between 3 Coscinodisci, and just above a horn of Zygoceros

62 7/8 / 77 1/4 Coscinodiscus gigas - fine one

" " oculus-iridis - E. of last

" " lineatus - between the two last.

60 3/4 / 61 1/8 Actinocyclus pyridiculus - inclining the next.

" Actinocyclus senarius inclining last.

" Coscinodiscus lineatus, N.E. of last two

60 3/4 / 60 1/8 " "

" Biddulphia ? pulchella B. N.N.E. of last like Monterey form -

59 7/8 / 74 3/4 Coscinodiscus gigas - Small one

59 7/8 / 72 Mesocena circulus

" Mesocena diodon N.E. of last

" Navicula sigma S.W. of last two -

57 1/4 / 60 3/4 Synedra long curved one (nov. sp.)

" Halicalyptra depressa, just above concavity of last

55 1/4 / 61 1/4 Coscinodiscus oculus-iridis

" Actinocyclus 14 rays, just below last.

55 / 60 3/4 Denticella tridentata Ehr.

54 3/4 / 70 1/8 Coscinodiscus punctatus elliptical

" Biddulphia ? N.W. of last.

54 7/8 / 23 7/8 Mesocena diodon deformed

" Chaetoceros, nearly E. of last, - N.W. of a broken (Cosc. lineatus

1 n. (continued)

54 3/4 / 60 Dictyocha crux - near an empty ring

" Ditylum? Virginicum B. frag.t S.S.E. of last.

54 3/4 / 80 1/3 Chaetoceros incurvum B. N.E. of 2 Coscinodisci.

53 1/4 / 71 1/2 Craspedodiscus pyxidicula Ehr.

52 3/4 / 60 1/4 Dicladia Capreolus Ehr. N.E. of a large broken Cosc. oc. iridis.

53 1/4 / 68 3/4 Ditylum good one

" Dicladia near last

51 1/4 / 74 3/4 Mesocena circularis

" Gomphecium odontella? top view, touching last.

51 1/2 / 64 3/4 Chaetoceros incurvum E. of a broken Cosc. (catpo) lin.

51 / 63 3/4 Gomphecium? barbatum Ehr. near a rectangular bit

50 1/8 / 63 1/8 Dictyocha crux

" fragment of a spinose body Zygoceros? W. of last

" " " " N.E. of D. crux.

49 1/3 / 75 3/4 Navicula Sigma

56 / 73 Ditylum? Virginicum B. broken

48 1/2 / 72 3/4 Actinocyclus - blue disc all alone, 14 rays.

47 / 77 1/8 Navicula Sigma

44 1/2 / 65 1/2 Chaetoceros incurvum B.

41 1/8 / 64 Navicula Sigma - 2 whole ones, & a fragment of (a larger one

38 7/8 / 67 3/4 Coscinodiscus gigas - small one

43 7/8 / 67 1/4 Zygoceros? fragment with spine

No. 1142 Slide 2 a Piscataway, Md.
treated with KO. light portions
$\frac{61\ 3/4}{82\ 1/8}$ Chaetoceros bacillaria Ehr. fine one
$\frac{34\ 1/8}{72\ 1/8}$ Triceratium amblyoceros Ehr.

No. 1143 2 b. Piscataway, Md.
with KO. heavy part
$\frac{55\ 1/4}{91}$ Denticella tridentata Ehr. with spines (view side
$\frac{47\ 1/4}{22}$ Rhaphoneis rhombus?

No. 1144 2c Piscataway, Md.

53 7/8 / 69 Asterolampra Marylandica centre broken

59 1/2 / 81 Asterolampra Marylandica Ehr. good one

No. 1145 2d. Piscataway Md.

45 1/2 + / 38 3/4 Asterolampra Marylandica Ehr.

43 1/2 / 35 1/3 " " "

48 1/2 / 28 1/2 " " "

No. 1146 2 e Piscataway, Md.

47 1/8 / 66	Asterolampra Marylandica (Stage)	
46 3/4 / 70 7/8	Coscinodiscus oculus-iridis	
64 / 67 3/4	" perforatus large.	63 3/4 / 68
63 1/8 / 64 7/8	?	63 1/2 / 65 1/2
	Asterolampra	62 1/2 / 24 1/4
62 3/4 / 70 1/2	" large, but broken	62 1/2 / 71 1/4
62 / 63 1/2	" " good	61 3/4 / 64
60 1/4 / 62 3/4	" "	60 1/4 / 63 1/8
	"	60 1/2 / 23 1/4
	Actinoptychus	58 3/4 / 25 1/2
	Cosmo. oculus-iridis	58 3/4 / 23
	Asterolampra, with portion of ring N.E. of last	"
58 1/4 / 63 3/4	"	58 1/4 / 64 1/4
57 1/2 / 70 1/2	"	57 1/4 / 67
	"	57 1/2 / 25 3/4
	"	56 3/4 / 25 3/4
55 3/4 / 70 1/4	Triceratium amblyceros	55 3/4 / 71
54 1/4 / 67 3/4	Rhizosolenia	54 1/4 / 68
	Asterolampra portion of a large one N. of a bit of Cos. oc. irid.	52 7/8 / 23 1/2
	Asterolampra	49 1/4 / 28 3/4
	" S.W. of last	"
	Rhizosolenia S.E. of last	"
47 1/2 / 63 1/2	Asterolampra with portion of cule	47 1/2 / 63 3/4
39 1/2 / 48 1/2	Asterolampra, & many other Asterolampra not recorded	
62 3/4 / 65	Triceratium	

No. 1147 2 f. Piscataway, Md.

55 2/3 / 81 1/2	Asterolampra Maylandica ?? dmble disc: mr. sp?	
55 1/2 / 65 1/4	Asterolampra Maylandica !	
62 1/4 / 72 1/3	Denticella tridentata Eh.	62 / 72 1/2
61 1/8 / 79	Mastogonia	60 3/4 / 79 1/4
60 1/8 / 80 3/4	Denticella tridentata	60 1/8 / 80 3/4
58 1/2 / 75 1/4	Mastogonia, with spines at centre just above a brown mass	58 3/4 / 76 1/4
57 / 84 1/2	Rhaphoneis rhombus	57 / 84 1/4
57 / 85	Omphalopelta areolata	57 / 85
54 3/4 / 87 3/4	Denticella tridentata Eh.	54 3/4 / 77 3/4
53 1/4 / 88 1/2	Asterolampra Maylandica	53 1/2 / 88 1/2
53 3/4 / 87	Coscinodiscus oculus-iridis	53 1/2 / 87 1/8
49 3/4 / 83 1/8	Dicladia ?	49 1/2 / 83
	Asterolampra Maylandica small, faint between 2 yellow spots in margin of field	46 1/4 / 73
44 3/4 / 82 1/8	Asterolampra Maylandica	44 1/2 / 82
42 3/4 / 80	Eupodiscus 3 feet	42 3/4 / 80
	Denticella tridentata good one	41 1/2 / 78 1/8
	Eupodiscus 3 feet good	40 / 86
	Rhaphoneis	39 3/4 / 67 1/4
	Eupodiscus 4 feet good	37 3/4 / 70 1/2
	Coscinodiscus perforatus	35 1/4 / 74

No. 1148 2 g. Piscataway, Md.

63 1/4 / 36+ Asterolampra marylandica - just S. of a long filament

52 7/8 / 70 " " Ely. good one

No. 1149 2 L. Piscataway, Md.

52 3/4 / 77 3/4 Asterolampra

57 3/4 / 79 3/4 " (record to be continued)

a few Barbadoes Polycistins introduced by some accident

No. 1150 2 i Piscataway Md.

63 3/4 / 60 1/8 Asterolampra Maylandica 8 rays

58 1/4 / 26 3/4 "

" another fragment to E. of last

57 1/4 / 30 Asterolampra Maylandica, good one with part of outline

53 1/2 / 25 1/8 Mesocena with 2 spines

53 1/2 / 68 1/2 Asterolampra

60 3/4 / 60 stage Asterolampra Maylandica, with part of outline

51 1/4 / 26 3/4 stage " " 51 1/4 / 27 1/4 by Indicator

42 1/2 / 27 stage Coscinodiscus oculus-iridis? 42 3/4 / 28 1/4 "

41 1/4 / 71 3/4 Chaetoceros partly obscured 41 1/4 / 72 1/4

61 3/4 / 28 3/4 Asterolampra Maylandica

41 / 72 3/4 " " 2 valves lapping

(a few Barbados Polycistina introduced by some accident.)

Succ

No. 1151 2 j. Piscataway Md.
light portions

No. 1152 2 k. Piscataway Md.
Asterolampra Maylandica

No. 1153 3 a. Calvert Co. Md.

$\frac{46\,1/2}{27\,1/3}$ Haliomma? 4 specimens

$\frac{45\,1/4}{26\,1/2}$ " 3 specimens

$\frac{44\,3/4}{25\,1/2}$ " 1 with long spine

$\frac{40\,1/2}{25\,1/3}$? new genus

$\frac{49}{35\,3/4}$ " 2 specimens

No. 1154 3 b. Calvert Co. Md.

Polythalamia with a new Lellina

No. 1155 4 a. Richmond Va.

50 1/10 / 77 7/8 Chaetoceros, with very long arms, one broken between an empty ring, and a bit of Coscinodiscus lineatus.

48 / 88 Cyclotella? with dots near margin

64 1/2 / 72 1/8 Biddulphia See Paper on Bermuda forms on Pl. fig 24 a

52 1/2 / 72 7/8 Stephanogonia nov. sp.?

54 1/4 / 74 1/2 Tricerationium obtusum? Ehr. N. W. of Dictyocha fibula.

52 / 82 3/4 Mesocena areolaris? S. E. of empty ring.

No. 1156 4 b. Richmond Va.

No. 1157 5a. Rappahannock, Va.
Dr. Chilton

57/81 1/2 Actinocyclus large one
61/85 1/2 Craspedodiscus
42 1/2/73 1/3 Actinocyclus, large one, partly obscured
59 3/4+/76 1/4 Craspedodiscus
43 1/4/84 Triceratium
58 1/8/81 Craspedodiscus
43/85 2/3 Triceratium

No. 1158 5 b. Rappahannock Cliff Va.
65 3/4/72 3/4 Craspedodiscus boiled in water

No. 1159 6a. Petersburg, Va.

No. 1160 7a Hollis Cliffs, Va.

$\frac{51}{81}$ Coscinodiscus marginatus? Ehr.

$\frac{50\frac{1}{8}}{69}$ Triceratium amblyoceros Ehr. fine one

$\frac{43\frac{1}{2}}{86}$ Actinoptychus (many rays.

$\frac{59\frac{3}{4}}{72\frac{1}{2}}$ Coscinodiscus oculus-iridis (omphalanthus?)

No. 1161 7 b. Hollis Cliffs Va.
Hyalodiscus laevis Ehr.

No. 1162 7 c Same as above

No. 1163 7 d. Same as above

No. 1164 8a Bermuda

Plain indicator		Stage right line
48 1/2 / 65	Heliopelta	48 1/2 / 65
44 / 66 1/4	Triceratium undulatum	44 / 66 1/2
	Triceratium	49 3/4 / 70 1/3
	Coscinodiscus omphalanthus?	54 / 27
	Omphalopelta areolata	60 / 67
	Chaetoceros good	60 / 27 1/4
	Gomothecium	59 1/2 / 71 1/4
	Coscinodiscus heterosporus	57 1/2 / 63
	" perforatus	57 1/4 / 63 1/2
	Coscinodiscus	57 3/4 / 67 1/4
	Omphalopella areolata	57 / 71 1/4
	Amphitetras Small, ~~at~~ to margin of group, S. of Gallionella interlacing	56 3/4 / 60 1/8
	Coscinodiscus marginatus?	56 1/4 / 60 1/2
	Periptera, by a yellow spot o S.W. of a Heliopelta	56 1/4 / 68 1/4
	Heliopelta 3 rays	56 1/2 / 68 1/2
	Heliopelta 4 "	48 1/2 / 64
	Ceratospyris?	48 1/4 / 77 1/8
	Euspodiscus 4 rays	47 1/2 / 79 3/4
	Triceratium undulatum?	46 / 26 3/4
	Zygoceros? S.E. of a black spot	44 1/2 / 70 1/4
	Heliopelta 4 rays	44 1/2 / 72 1/8
	" obscured	43 3/4 / 26
	Triceratium Solemiceros in the crowd	49 3/4 / 60
	Euspodiscus 4 feet	39 1/4 / 68 1/2
	Heliopelta 4 rays	36 / 69 1/4
	Omphalopelta 3 rays	"

No. 1165 8 b. Bermuda

45 1/4 / 69+ Heliopelta Eulerii Ehr. large one good 5

44 / 73 1/3 Heliopelta Leeuwenhoekii large one 4

48 1/2 / 71 Coscinodiscus large one with rose centre

No. 1166 8 c. Bermuda

45 / 66 3/4 Craspedodiscus elegans Ehr. broken

61 1/2 / 73 1/2 Heliopelta (Leeuwenhoekii) 4

52 / 27 1/8 " 5

56 / 64 " 4 C. S.

45 1/4 / 30 Coscinodiscus, large one with central cells

No. 1167 8 d. Remnda

Plain Ind.:		Stage by left line
51 1/2 / 25	Coscinodiscus marginatus	51 1/2 / 25
	Chaetoceros diploneis top view	65 / 62
	Small ellipse with rays - S.W. of a Zygoceros bifons	63 3/4 / 61
	Triceratium undulatum?	63 3/4 / 61 1/4
	Chaetoceros. horn of S.E. of last	"
	Heterolampra 6 rays good	60 3/4 / 67
	Haliarthrum tubulis B.	60 1/8 / 24 3/4
	Chaetoceros, horn of	59 3/4 / 25
	Zygoceros bifons	59 3/4 / 26
	Heliopelta 4 rays	58 / 24 3/4
	" "	58 / 25 1/2
	Eupodiscus 3 feet	56 3/4 / 60
	Eupodiscus 4 "	51 / 69
	Gomiothecium	51 1/2 / 74 1/2
	Triceratium edge view	50 / 22 1/2
	Elliptical disc with knot.	43 3/4 / 65
	Triceratium crenatum B. new	44 / 63
	Triceratium Solenoceros Ehr. good	43 3/4 / 26 1/2
	Coscinodiscus crenatus B. new	43 1/4 / 66 1/4
	Coscinodiscus omphalanthus?	41 1/2 / 61 1/4
	Heliopelta 5 rays	38 / 26
	Eupodiscus? Zygoceros? round with 2 feet	60 1/2 / 67 1/2
52 / 67	Triceratium c.s.	

No. 1168 8e Bermuda

52.4/84.8 Biddulphia polymera Ehr.

original specimen

No. 1169 8f. Bermuda

64.8/62 Mastogonia crux Ehr. (5 rayed variety)

63.8/72.4 " conical body with rays and punctate surface

59/71.4 Encyrtidium?

57.3/71.3 Chaetoceros, like Brightwell's fig 1? Mich. Jour. Vol. 18 pl VII.

No. 1170 8 g. Bermuda

$\frac{+3\,7/8}{77\,1/2}$ Aulacodiscus crux Ehr.

$\frac{+7\,1/8}{80}$ Coscinodiscus large one

No. 1171 8 h. Bermuda

No. 1172 8i Bermuda

recd from A. S. Johnson Apr 22. 1856

$\frac{33\cdot/3}{82\cdot/4}$ Aulacodiscus crux

$\frac{64+}{80}$ Aulac. fragg. & frust.!!

$\frac{57\cdot/3}{71\cdot/3}$ Coscinodiscus omphalanthus.

$\frac{44\cdot/2+}{72}$ frust of Aulac. crux.

$\frac{44}{67+}$ Heliopelta sellegnerii

$\frac{43}{63}$ Enf. gnat.

$\frac{36\cdot/2}{28}$ Xanthiopyxis oblonga

$\frac{49}{25\cdot3/4}$ Eupodiscus gigantaeus

No. 1173 8 j Bermuda

856

			Stage
	Coscinodiscus omphalanthus		46 1/2 / 79 1/2
58 3/4 / 76 1/2 +	Eupodiscus		58 1/2 / 76 1/2 +
55 1/8 / 76 1/2	Heliopelta		55 1/8 / 76 1/2
57 / 66	Heliopelta		57 / 66
57 3/4 / 66	Amphitetras	Small	57 3/4 / 66
	Omphalopelta	2 specimens	63 3/4 / 78 3/4
	Heliopelta	5 rays	61 3/4 / 77 1/2
55 7/8 / 68 1/2	Coscinodiscus gemmifer?		55 3/4 / 68 1/2
"	Asterolampra?	touching last on S.E.	"
	Triceratium crenatum B. faint		54 / 63 3/4
	Zygoceros bifons Ehr.		54 1/2 / 74 3/4
51 1/4 / 88 1/2	Heliopelta	4 rays	51 1/4 / 88 1/2
51 1/4 / 69 1/2	Triceratium tolenoceros		51 1/4 / 69 1/2
48 7/8 / 69	Gomothecium		48 3/4 / 69
	Sceptroneis caduceus	3 specns	47 1/2 / 84
	Triceratium undulatum Ehr.		46 1/4 / 70 1/2
	Triceratium undulatum		48 / 79
	Peristephania		46 3/4 / 78 3/4

No. 1174 8 ft. Bermuda

47 1/8 / 84 Heterolampra Maryland: fine
2 valves enfiumposed

43 / 27 3/4 ? W. of a Dictyocha E. of a

53 3/4 / 78 1/4 Craspedodiscus elegans

52 1/4 / 23 1/4 Rhizosolenia punctata

40 / 66 1/2 Eupodiscus 4 feet

36 / 79 2/3 Craspedodiscus elegans Ehr.

33 3/4 / 77 1/4 Actinoptychus yellow

45 1/2 / 77 1/8 ? Cone with lines

44 / 83 3/4 Encyrtidium ?

No. 1175 8 f. Bermuda

41 1/2 / 90 Actinoptychus with "watered" surface

52 1/4 / 24 7/8 Mastogonia crux? 7 rays.

No 1176 8 m. Bermuda

43 / 62 1/3 Heliopelta Enleri Ehr.

43 1/2 / 81 7/8 Heliopelta Enleri Ehr.

No. 1177 8 n. Bermuda

45 / 64 2/3	Denticella polymera Ehr.	top view
69 / 67 1/4	Coscinodiscus omphalanthus?	
64 1/8 / 72 1/8	Triceratium undulatum?	
64 1/2 / 63	Coscinodiscus omphalanthus?	
64 1/3 / 61 1/4		between 2 Coscinodisci
63 1/2 / 80 1/3		
61 1/4 / 78 1/2	Heliopelta	small
58 1/2 / 71 1/4	Triceratium	
55 / 24 1/2		
54 1/4 / 67 3/4	Gomiothecium	side view
54 1/3 / 61	"	
54 / 26 3/4	"	
53 3/4 / 76	Triceratium solenoceros	
53 1/3 / 82 1/4	Gomiothecium	top view
51 1/4 / 82	Craspedodiscus elegans	
49 1/2 / 85 3/4	Mesocena triangularis B.	
49 1/2 / 26 1/4	Heliopelta	4 rays good
49 1/4 / 84 1/3	Chaetoceros diploneis	
48 / 28	Gomiothecium	E. of Coscinodiscus
45 1/2 / 84	Heliopelta	4 rays good
43 3/4 / 62 1/3	Gomiothecium	
43 3/4 / 70 3/4	Triceratium undulatum	
"	"	S. of last
42 1/4 / 65 1/4	Triceratium	
32 3/4 / 73 1/2	Eupodiscus	3 feet
	Triceratium solenoceros.	

No. 1178 8 o Bermuda
Heliopelta sellignerii

No. 1179 8 p. Bermuda Dr. Vanarsdale
Heliopelta sellignerii
Antacrodiscus cruz
Craspedodiscus elegans

Fossil Polycistins & Diatoms.

No. 1180 Slide A. Barbadoes

No. 1181 B. Barbadoes

By proper mag. New Card No.

$\frac{43\,3/4}{75\,1/2}$ Coscinodiscus nobilis, showing spines well S.W. of large Halionna fragts. N. of reticulated ovoid $\frac{43\,3/4}{75\,1/4}$

? $\frac{57}{76\,1/4}$ (1) 8 div. 5 mar. prolongations centre perfect margin broken $\frac{56\,3/4}{76\,1/3}$

$\frac{56\,1/4}{73\,1/4}$ (2) Cosc.s nobilis, showing spines $\frac{56\,1/4}{73\,1/4}$

$\frac{54\,1/2}{21\,3/4}$ (3) $\frac{55\,1/8}{22\,1/4}$? Cosc.s nob. under side ? fragment with Biddulphia in contact $\frac{55}{22\,7/8}$

$\frac{53\,1/2}{40}$ (4) 12 div. nucleated longarms fragt. $\frac{53\,1/2}{40\,2/3}$

??? $\frac{50\,1/8}{24\,1/8}$ (5) $\frac{51\,1/4}{25\,1/2}$ Cosc. nob. nearly perfect $\frac{51\,1/2}{26}$

$\frac{45\,3/4}{28\,1/4}$ (6) $\frac{46}{28\,1/4}$ 9 div. 1 nnc. 5 mar. prolongations below centre a good deal crumbled, but perfect S. of Actinoptychus, and just below a spine $\frac{46}{29}$

$\frac{37\,3/4}{32\,7/8}$ $\frac{38}{32\,3/4}$ (7) 18 div. 5 nuclei 5 mar. below centre almost in contact with a broken Halionna $\frac{38}{33\,1/8}$

$\frac{45}{73\,1/2}$ quite minute, a little below centre $\frac{44\,7/8}{73\,1/8}$

$\frac{45}{39}$ very thin $\frac{45}{39}$

$\frac{41}{34\,1/4}$ Centre frag.: of Coscinodiscus nobilis? partly covered $\frac{41}{34\,3/4}$

No. 1182 C. Barbados Springfield by new card B.

By No 7 and 2 glasses of Cheralis high power

$\frac{63\cdot/4}{33\cdot/2}$ $\frac{64^{+}}{34^{+}}$ (1) 7 divisions, N.E. of centre not ~~vis clearly~~, eleven $\frac{63\cdot/3}{34\cdot/2}$ marginal prolongations between umbilicus & dotted margin – fragment –

$\frac{58\cdot/2}{34\cdot/4}$ (2) fragment of shell of which you have photograph 20 divisions centre ray large – dotted margin $\frac{59}{35}$ almost obsolete – only 3 divisions in fragment.

$\frac{58\cdot/4}{35+}$ W. of net N. of 2 crossed X spicules

$\frac{58}{35}$ (3) $\frac{58\cdot/2}{35\cdot/4}$ fragment 10 div. 5 mar. prolong.ns W. of fragment of net Surface $\frac{58\cdot/4}{33\cdot/4}$ worn.

$\frac{55}{33\cdot/4}$ (4) Same as (3) except one o in centre

$\frac{55\cdot/4}{34\cdot/2/3}$ $\frac{55\cdot/4^{+}}{34}$ N.W. of Thustulla

$\frac{54\cdot/2}{36}$ (5) $\frac{55\cdot/4}{36^{+}}$ Liostephanie, (partly covered up in a crowd and N.W. of a small Triceratium, and E. of a brown spot $\frac{54\cdot/4}{36\cdot/8}$ $\frac{54\cdot/2}{79}$

$\frac{54\cdot/2}{79\cdot/4}$ (6) $\frac{55}{79\cdot/4}$ do

$\frac{49\cdot/4}{34\cdot/4}$ $\frac{50^{+}}{34\cdot/2}$ (7) 8 div. plain centre 5 marg. prolong.s fragment S.E. of 2 fragts. of Stalionma

$\frac{42}{70}$ (8) $\frac{42\cdot/4}{70\cdot/2}$ 1/2 a Coscinodiscus nobilis, showing the spines on the shell, originating just inside the large dots, one sticks out beyond the shell. S.E. of Stalionma $\frac{42\cdot/4}{70}$

$\frac{37\cdot/4}{32}$ (9) $\frac{38\cdot/4}{31\cdot/2}$ Liostephanie $\frac{38}{31\cdot/4}$ N.W. of centre of No. 7

$\frac{37\cdot/4}{31\cdot/2}$ by Spencer 1/2 and grid rule

No. 1183 Slide D. Barbados Card B.

$\frac{54}{39\frac{1}{4}}$ (1) $\frac{54\frac{3}{4}}{39}$ lg 1/2 on No 7 9 div. 5 mar. prol.s no nuclei S. W. of large bit of Halionma $\frac{54\frac{1}{4}}{39\frac{3}{4}}$

$\frac{44\frac{1}{4}}{72}$ (2) $\frac{44\frac{1}{2}}{72\frac{1}{4}}$ 7 div. 5 mar. prol.s a mere film frag.t of central portion $\frac{44\frac{1}{2}}{72\frac{1}{4}}$ " W. of large frag.t of Halionma and in a group with

$\frac{44\frac{1}{4}}{77}$ (3) $\frac{45}{77\frac{3}{4}}$ Coscinod.s nobilis $\frac{44\frac{7}{8}}{77\frac{1}{4}}$

$\frac{43\frac{3}{4}}{74\frac{1}{4}}$ (4) $\frac{44\frac{1}{4}}{75}$ 16 div. long and wide dotted margin 50 odd nuclei - centre perforated with portion of margin

$\frac{40\frac{1}{2}}{74\frac{3}{4}}$? ? (5) $\frac{41\frac{1}{2}}{75}$ 6 div. large marginal prol.s probably the large irregular frag.t - a mere film

No. 1184 Slide E. Springfield Barbadoes-

Spencer 1/16 in field at N.E. margin by the reference

61 3/4+ / 73 3/4++ 61 / 73 (1) 61 1/8 / 73 3/4

by 1/16 60 3/4 / 40 1/2 (2) 60 1/4 / 40 3/4 12 divisions, no nuclei, 5 marginal prolongations between two arms - good specimen.

by 1/16 50 3/4+ / 70+ 50 1/2 / 70 (3) 50 3/4 / 70+ 8 divisions - no nuclei. 5 mar. 50 3/4 / 69 3/4 pro. better - found at first trial -

Registered with a 1/4th Spencer, on movable stage - enamelled card gradration each shell well centred -

No. 1185 F. Barbadoes - new Card - B -

57 1/2 / 48 1/2 Cellular tissue with large spines 57 1/8 / 49

52 1/4 / 81 1/2 Actinomma? with cellular tissue 52+ / 80 3/4

57 1/8 / 74 58 / 73 3/4 " tissue broken away 57 3/4 / 73 1/2

51 1/2 / 71+ Diabolisens with three horns unbroken 50 1/2 / 71

46 / 41 1/2 (7/8) 45 1/2 Coscinod. nobilis - 45 1/2 / 42 ghost thereof -

2? 42 / 41 1/8 partly covered on the long leg above a Flustrella and a long spicilum in the same field points to it.

43 1/2 / 39- fragment of polycistin with strangely branched spines 43 3/4 / 39 1/2

48 / 29+ (1/2) Cornutella 48 / 29 3/4

43 1/2 / 41 1/2 Small shell with 8 rays (43 / 41 3/4) in right margin of circle and W. of a line joining 2 bits of Flustrella -

No. 1186 G. Barbados, Springfield
light portions

58/64 1/4 Triceratium

" Coscinodiscus nobilis, Johnson

51 1/2 / 73 1/8 fragment of disc - with rays. E. of above small one.

49 1/2 / 71 1/4 Disc with rays - 2 valves, touching a ⊏

49 1/4 / 69 1/8 Disc with rays - small S.W. of a brown spot

48/67 Coscinodiscus nobilis Johnson good one

59/70 7/8 Hemianlus? cuneatus, long central tail E. of bubble

53 3/4 / 17 Disc 7 rays small

40 1/2 / 25 1/2 " N. of a nodescript horn: good one

45/61 2/3 Disc S.W. of N.W. of Dictyopyxis

41 1/2 / 29 7/8 Liostephania? new disc
N. of ⊐
N.W. of ⊏

No. 1187. H. Barbadoes (Springfield)

$\frac{48\cdot/2}{80}$ Disc 12 rays, and a rosette near a light patch of coarse network. D.W.B.

$\frac{52/8+}{66}$ fragment of large disc with rays.

$\frac{50\ 7/8}{80\ 3/4}$ " " small " N.E. of a yellow spot.

$\frac{51}{74\cdot/4}$ Disc 11 rays & rosette N.W. of ☽

$\frac{49\cdot/4}{71\ 3/4}$ Fragment of disc with 2 battledores

$\frac{47\cdot/8}{75\ 3/4}$ Coscinodiscus punctatus? elliptical

No. 1188 I. Barbadoes (Scotland)

$\frac{51\cdot/2}{62\cdot/3}$ Stephanopyxis

$\frac{42\ 3/4}{30\cdot/4}$ " obliqua

$\frac{53\cdot/2}{21\cdot/8}$ "

No. 1189 J. Barbadoes, Springfield

42 1/3 / 23 7/8 Stylodicta with large spines

39 1/4 / 49 1/8 Disc with rays - small. S.E. of a Cornutella

36 1/4 / 67 1/2 Coscinodiscus nobilis Johnson

45 7/8 / 20 1/4 Seen obliquely S. of a filament

No. 1190 K. Barbadoes (Springfield

Light bottom - boiled in Aq - then chlorated)

66 1/2 / 72 1/4 Disc, 8 rays small

47 1/4 / 63 2/3 Disc 7 rays - no nucleus - S.E. of E

65 7/8 / 69 3/4 Disc 8 rays - small

52 1/3 / 73 1/4 Disc seen obliquely, N.W. of a small Encystidium

No. 1191 L. Barbados.

51 7/8 / 68 7/8 Chilomma like Haliomma with entire margin

66 1/4 / 25 7/8 Petalospyris

40 / 72 1/2 Anthocyrtis! Mesphilus?

48 7/8 / 27 1/3 Haliomma with numerous flat rays.

No. 1192 M. Barbados, Scotland District

with acids & soda

59 / 80 Rhabdolithis Pipa: Mik. T. 36 fig 59 B.

65 1/2 / 85 3/4 Ceratospyris with many long horns.

58 / 77 3/4 Podocyrtis Schomburgii?

51 1/8 / 73 1/4 Ceratospyris with long horns good

46 2/3 / 75 1/2 Podocyrtis 3 very long feet - 12 broken -

No. 1193 (gas) N. Barbadoes. Scotland district
: 52/64 s/x Cornutella: like C. Fiscella

No. 1194 O. Barbadoes. Scotland district
Cleaned with Hcl. gas.

No. 1195 P. Barbadoes, Scotland district

$\frac{52}{69\ 3/4}$ Podocystis allied to P. Schomburgii good one

No. 1196 Q. Barbadoes. Scotland district

(1st results with Hcl acid gas)

$\frac{49}{66\ 3/4}$ Liostephania

$\frac{49}{73}$ Halicalyptra? large campanulate form

$\frac{46\ 1/4}{61\ 1/4}$ Anthocystis fine one

No. 1197 R. Barbadoes, Scotland

1	63 3/4 / 89	Podocystis Schomburgkii Ehr.
2	63 7/8 / 62 7/8	Ceratospyris with 6 horns
3	55 1/2 / 86 1/2	Encyrtidium with clavate spine
4	52 3/4 / 90	?
5	48 1/2 / 65	Podocystis ?? very coarse net work and long feet.
6	35 / 81	Podocystis Schomburgkii
7	30 1/3 / 73 3/4	?
8	45 1/4 / 94	like No 5.
	46 3/4 / 80 1/4	Triceratium
	41 1/2 / 29 2/3	Small Podocystis with long feet
	45 1/4 / 65 1/4	Podocystis ? two very long feet

No. 1198 S. Barbadoes

51 1/8 / 76 3/4 Rotalia? 52/38

48/80 Haliomma? with numerous marginal rays, broken showing nuclens and internal rays.

48/89 3/4 } Triceratium castellum B. { 45/76 1/4

45 1/8 / 81 1/2 Coscinodiscus nobilis, Johnson

38+/93 Johnsons form with nucleated centre and perforated margin - In right hand corner of ring, faint and partly obscured by ↘

36 1/4 / 80 new form By stage indicator

37 7/8 / 82 3/4

36 3/4 / 87 1/2 Haliomma with coarse net & spines

" " fine net similar of last.

35/79 1/2 Podocystis somewhat like P. Stegles

" " ? basal view of another species showing small spines -

34 3/4 / 72 1/3 Encyrtidium tubulosum

35 1/3 / 76 1/2 Haliomma Humboldtii? marginal rays -

31 2/3 / 81 1/4 " numerous rays -

30/73 1/4 Lithomitrium by 1 inch and stage indicator

No. 1199- J. Barbados, Springfield
(Leary fortius,) heated with boiling water then chlorated

48/87+ Tricerationa marginatum Brightwell
Bottom of Johnson's beautiful one
See Quart. J. Mic. Sc. Vol. IV pl. 17 fig 13

41 1/4 / 79 7/8 Disc small with rays and nucleus -
N. W. of a Stylodictya E. of a curved horn

? 64 3/4 / 65 1/4 Lithocyclia

" Podocyrtis columnata, S. W. of above just on of the field

54 1/2 / 67 1/2 Rhabdolithis Pipa Ehr.

57 / 81 1/4

64 3/4 / 67 Lithocyclia

52 / 24 3/4 "

51 / 24 7/8 Halicalyptra ?

51 1/2 / 68 1/2 Ceratospyris ??

No. 1200 U. Barbadoes, Scotland district (Sluge)

63 1/8 / 78 1/4 Tricevalum venosum Brightwell
See Mic. Jour. Vol 4 - p XVII - fig. 5

55 1/2 / 79 3/4 Podocystis Schomburghii ? 2 specimens

50 1/2 / 72 1/4 " Mitra Ehr.

" " papalis ? S. E. of last

48 / 88 " Schomburghii good one
with terminal spine and 3 legs. (one leg broken)

40 3/4 / 75 3/4 Rhabdolithis Pisa 40 3/4 / 75 1/2

No. 1201 V. Barbadoes, (Springfield)
boiled in NO then chlorated (by candle light)

61 / 69 7/8 Coscinodiscus nobilis Johnson

60 / 80 3/4 Fragment of net work (Dictyocephalus ?)

57 1/4 / 69 Disc with rays - small. S.E. of a broken Haliomma

No. 1202 W. Barbadoes, Scotland district
Treated with HCl. and then with KO

$\frac{49\frac{1}{2}}{60}$ +
$\frac{54}{82}$? Podocystis Schomburghii ? good

No. 1203 W. Barbadoes, Scotland dist.
HCl. gas.

No. 1204 J. Barbados. Springfield

$\frac{24}{108}$ Cyrtoma Polycistina

$\frac{24\,1/2}{85}$ " " Same species

$\frac{33\,3/4}{26}$ Lithocyclia

No. 1205 J. Barbados

$\frac{68\,3/4}{95}$ Encyrtidium tubulosum Ehr.

$\frac{69\,1/4}{90}$ Podocyrtis papalis Ehr.

$\frac{48\,7/8}{73\,1/2}$ " " ? good

$\frac{28}{75\,1/8}$ Lychnocanium

No. 1206 A' Barbados

62 1/4 / 72 7/8 Lychnocanium 2 spec.

64 1/8 / 70 7/8 Lithomithium broken

61 3/4 / 42 "

59 / 33 1/8 " oblique basal view

55 1/2 / 61 1/2 " good specimen

34 1/2 / 66 Lychnocanium

38 1/2 / 34 3/4 ? touching a Lychnocanium

48 3/4 / 79 1/4 Lithomithum with long projections

35 1/2 / 76 1/3 Coscinodiscus nobilis

43 / 79 1/2 ? spindle shape - allied to Encyrtidium tubulus Ehr.

No. 1207 B' Barbados.

52 1/3 / 81 1/4 Triceratium Castellum B. nov. sp.

No. 1208 C' Barbados

$\frac{65}{64}$ Haliomma? Saturnii

Ehr.

No. 1209 D' Barbados

$\frac{53}{79\frac{1}{4}}$ Anthol ampra large one

$\frac{52\frac{1}{4}}{82\frac{3}{4}}$ Triceratium shows processes at angles.

$\frac{51}{28}$ Antholampra small one

$\frac{42\frac{3}{4}}{64\frac{1}{2}}$ " 6 rays.

$\frac{48\frac{1}{2}}{70}$ Anthol ampra. small. 2 valves.
E. of a reticul bit of the nondescript.

No. 1210 E' Barbadoes.

62 3/4 / 85 3/4 Lithocyclia - fine large one with spine

43 1/2 / 72 7/8 "

No. 1211 F' Barbadoes.

38 3/4 / 27 Coscinodiscus nobilis Johnson.

35 2/3 / 33 3/4 Asterolampra? 8 rays. (Johnsons form)

43 / 37 Disc with punctate centre, and narrow festooned margin - (near lower end of blue fibre which points to it.)

54 1/2 / 64 Arachnodiscus? Small one near upper part of ring or right hand side.

No. 1212 G' Barbadoes

39/74 Liostephania

35½/60½ Coscinodiscus nobilis Johnson broken-

36/62+ Disc with nucleus and festoned margin- large one near a

41/26+ " " broken

No. 1213 H' Barbadoes

45/67½ Coscinodiscus nobilis Johnson

41/27+ " "

No. 1214 J' Barbadoes

$\frac{40}{37/4}$ Petalospyris diabolisens Ehr.

No. 1215 J' Barbadoes-

$\frac{54\,1/2}{85}$ 9 rays-

$\frac{59}{81\frac{1}{3}}$ Cosmodiscus nobilis Johnson.

No. 1216 K' Barbadoes

No. 1217 L' Barbadoes.

No. 1218 M' Barbadoes

No. 1219 N' Barbadoes –
Asterolampra?

No. 1220 O' Barbadoes, Springfield

No. 1221. P' Barbadoes

No. 1222 Q' Barbadoes

No. 1223 R' Barbadoes.

No. 1465 Slide St. Gregory – Registered by R.C. Greenleaf C-1

Gomphonema 30/28 30/29

Cocconema lanceolatum 35/11

Stauroneis aspera 39/19 39/20 = 35/18

Navicula praetexta 34/34

Diadesmis? 40/30

Pinnularia alpina? 40/23 41/24

P distans 19/33 19/34

Synedra 15/27 Kennedyana

nhat 16/16 16/17 disk

Nav. Smithii, var B fusca 17/27 17/28

nhat 16/35

Cosconodiscus Denticula marina 20/29

Navicula spectabilis 22/31 22/32

N. clavata 22/21

N. bombus 25/17

Podosira maculata 23/10 23/11 same field

Cocconeis distans 28/19

No. 1466 Slide B. Rec'd by R. C. Greenleaf C-3.

Anliscus ... 27/18

Triceratium or ... 20/30

Amphitetras, very coarse granules arranged in {circles - antediluvian

Navicula ? splendida 19/29

Plenrosigma elegatum 15/24

Diadesmis ? Williamsoni. 13/24 | 13/25

Amphora 12/27 | 12/28

Navicula spectabilis .. 16/28

Denticula marina 26/30 | 27/31 | 22/14 | 22/15

Navicula. var. Smithii. 30/36

fusca. 29/36 | 30/37

Amphitetras 13/13

Grammatophora serpentina 16/13

Plenrosigma decorum 28/18

No. 1467 Slide C. Reg.d by R. C. Greenleaf.
C-5

Plenrosigma . . . 14/26 = 39/18
Nav.a Kennedyi 39/26 39/27
Cocconeis distans. 13/25 | 14/25
fine specimen
Grammatophora serpentina side . . . 19/25
Navicula spectabilis . 18/28
Stauroneis aspera fragment.
Dradiesmis "
Denticula

No. 1468 Slide D. C-6
39/27 Amphitetras antidiluviana

No. 1469 Slide E. Gregory 5-2
Registered by C.S.

30/35 × Amphora excisa Greg.

37/24 Nav. brevis

20/33 × Denticula marina

27/33 Pin. allemanica } or
Cocconeis ornata }

28/33 Navicula subborealis

16/12 Nav. nitescens

15/9 × N. fusca

10/20 N. spectabilis

26/10 × Synedra Kenedyana F.V.?

25/18 Cocconeis distans Greg. } fig. does not agree with his description.

Glenshira Sand

No. 1470 Slide F. 7=2 Gregory
Regis d. by R. C. G.

21/27 | 22/27 Cocconeis distans 30/30

27/27 = Navicula bombus .. 30/12, 30/13

31/28 | 32/28 N. spectabilis 36/30, 36/31

23/29, 13/15 N. Hennedyi

12/22 N. or Pinnularia Pandura? var. elongata

| 32/18 Gomphonema geminatum

29/21 Nav. lyra 32/28 | 33/23

frequent Grammatophora Serpentina
... " maculatum

24/19 Coscinodiscus?

34/18, 34/19 .. Rhabdonema

31/14, 31/15 .. Cocconeis sec. ornata

frequent Pinnularia distans | 30/31

24/12, 24/13 Coscinodiscus nitidus

39/14, 39/15 N. Smithii var. nitescens

22/24, 22/25 ... " " fusca

| 14/26 Synedra undulata Gregory.
Toxarium undulatum Bailey

| 20/26 what? a singular object, broken

12/27, 12/28 Synedra Hennedyana Gregory

11/22 | 12/22 Nitzchia?

21/18 | 22/28 Nav. Smithii var. suborbicularis

29/30, 29/31 Synedra Baculus | 30/21
Nav. maxima one
| 30/31 .. Synedra narrow var.

30/30 Nav. angulosa or Nav. palpebratus?

33/31 | 34/31 Pleurosigma fasmosum.

No. 1471 Slide G. "Gregory M.D. 57"

29/25 Pleurosigma navicularum

33/31 Synedra Hemiedyana 23/24/23/25 Greg.
one dotted lent. 25 ..... Toxarium B.

22/31 = Cocconeis distans

22/32 Grammatophora serpentina

30/28 Navicula Smithii var. fusca

24/26 = Eunotia triodon

24/17 Grammatophora marina

14/24 Cocconeis pseudomarginata

23/18 Navicula lyra

18/18 = Odontidium

29/19 Grammatophora maculatum?

16/18 | 17/18 = Gomphonema olivaceum

12/17 | 13/18 = Biddulphia

28/18 | 29/18 Navicula Libellus see PP VII. 71
see Glenshina

27/18 | 28/18 Rhabdonema

12/17 Pleurosigma ?

Cymbella turgida

25/15 Toxarium undulatum, Bailey

25/14 | 26/14 N. lyra, small var.

No. 1472 Slide H. (9-10′ / 24)

Amphiprora lepidoptera

23/41 — Plenrosigma - ? sp.

— Nitzchia - ? sp.

18/40 " Cocconeis splendomarginata

18/41 C dimpta, frequent.

32/39 = Synedra 21/35 Baculus? Gregory

× 16/37 Pinnularia distans

× 16/38

18/37 Plenrosigma - Is this form described

18/38 by Gregory - fig 1 Glenshiw?

24/38 Nav.a lyra, small

30/36 = N. amphisbaena Smith

Stauroneis aspera, abundant

30/36 = Plenrosigma intermedium Smith

27/36 | 28/36 Amphiprora complexa

" Grammatophora serpentina

Achnanthes

Cocconeis scutellum

20/26 = Epithemia gibba

16/25 = Surriella constricta

S. lata abundant

21/17 = Navicula clavata

No. 1473 Slide I. Gregory 4d-
195
elegant specimen 15/28

28/25 - Actinocyclus Ralfsii Greg.

27/25 Amphiprora complexa Greg.

Surirella 21/21 lata W. S. ... 36/22 x / x 37/23

27/25 Amph. lepidoptera Greg.

20/31 21/31 Cocconeis dirupta Greg. 9/30

21/27 Amphitetras antidiluviana
21/28

33/28 34/28 Grammatophora serpentina very large-
20/22 side V -

29/22 Campylodiscus simulans

21/21 edge view?

20/11 21/11 Cocconeis rhombifera Bailey-

No. 1474 Slide J. Gregory 5d (3) 5'

33/37 Gomphonema geminatum

24/36 | 25/36 Navicula pandura Breb.

21/24 N. latissima long = Gregory

35/34 N. Bombus 28/18 large

35/35 28/19

33/33 Campylodiscus angularis, Greg.

27/32 C. = decorus Pt 8 11

16/32 = Campylodiscus - notice the granulated costa Edge 2

12/24 = 15/29 | 16/29 = C. Horologium Smith

12/25

40/18 = Nav. latissima, short.

No. 1475 Slide K. Gregory 20 d (3) 10

28/7 Campylodiscus eximius

12/14 Nav. maxima Greg.

29/13 Campylodiscus decorus Breb.

— — fastuosa

10/31 Campylodiscus limbatus Breb.

16/37 Nav. nebulosa Greg.

Nitzchia panduriformis 13/16

Amphiprora elegans 26/16

Diadesmis Williamsoni 26/18

Surirella fastuosa abundant

Nitzchia distans 25/20

Plenrosigma formosum . . . 25/21 27/22

Nitzchia
Pinnularia viridis
Campylodiscus
22/22

Plenrosigma rigidum 13/26

Triblionella marmata 12/23

Campylodiscus eximius 15/24

Nitzchia sigmatella 19/22 19/23

Gimphonema geminatum 12/23 12/24

No. 1476 Slide L. Gregory

No. 1477 . Slide 1a Neuse River N.C.

Podosphenia Ehrenbergii

Navicula oralis and Smithii

34/21 Campylodiscus cribrosus

Epithemia turgida, common

E. musculus

Nitzschiella gracilis

11/20 = 15/29 Navicula ?

41/23 = 20/23 | 21/30 Amphiprora alata

41/24 20/33 | 21/34

30/29 | 31/29 ... Terpsinoë musica

... Navicula punctata

Amphora spectabilis ? Lagoy

Surirella splendida

18/25 = 27/20 | 28/20 Surirella ? like Mystic Pond specimen Slide 6 | 24/20 | 24/21

Actinocyclus undulatus

Nitzschia scalaris

Navicula lyra

17/21 ?

Hirvanbritium

Nitzschia sigmoidea

34/16 N. ?

26/21 N. ?

37/18 = 36/21 Nitzschia ? Is this Brightwellii ?

28/18 | 29/18 = 30/19 | 31/19 | 31/20 Navicula ?

26/17 what ?

Pleurosigma Baltica

27/19 Surirella striatula

20/27 Navicula "

20/28

Synedra

10/27 .. Navicula ?

10/28

No. 1478 Slide 1 b. Nense River N. B.

No. 1479 2 a Mystic Pond Mass.

No. 1480 2 b. Mystic Pond Mass

No. 1481 Slide 3 a Hull Inlet, Mass.
Pleurosigma Baltica
P. elongata orthus
Navicula lyra
Amphora
Amphiprora alata
Navicula didyma
Epithemia
Navicula Smithii
Stauroneis
Coscinodiscus
Nitschia

No. 1482 4 a Peat Great Hill

No. 1483 Slide 5a St. George River, Me.

34/35
14/14 Rhabdonema

27
15 Hyalodiscus subtilis

24
15 Grammatophora serpentina

Achnanthes fragment

15
17 Plenrosigma strigosum

32
24 .. Navicula indica Grenéle 1 x 5 13
32 July 1862
25

21
25 .. Plenrosigma Baltica
21
26 Campylodiscus

No. 1484 Slide 6 St. Georges River, Maine

18/29 18/30 Campylodiscus ?

31/29 31/30 Rhabdonema arcuatum

29/13 = 25/27 25/28 Nitzschia ? new

25/26 .. Campylodiscus

19/25 .. Navicula cuspidata

.. Biddulphia aurita

15/24 | 16/24 32/23 32/24 Rhabdonema ? 26/24

39/19 Navicula lyra

30/19 Cocconeis ? like 35/17 35/18 .... beautiful

37/18 | 38/18 .. Nitzschia angularis

37/19 | 37/20 .... Grammatophora ?

20/19 G. marina

21/16 31/17 Rhabdonema minutum ?

35/21 Navicula granulata Bailey 35/21

26/17 N. latissima v granulata Pritchard

21/17 Gomphonema curvatum

24/15 Stauroneis aspera abundant

22/16 | 23/16 .. Navicula Smithii

.. Nitzschia sigma

27/16 | 28/16 Hyalodiscus subtilis broken

29/24 Cocconeis scutellum fragment

32/16 | 33/16 Grammatophora maculatum (macilenta)

14/24 14/25 Plenrosigma Fasciola

29/24 Epithemia granulata

25/14 = 32/24 Cocconeis ?

Pinnularia directa fragment

35/27 | 19/24 Plenrosigma angulata ? finer striae

| 36/23 Navicula rhombica ? (Pritchard)

Slide 6. (Continued)

Actinocyclus undulatus, fragment

28/15 28/16 Navicula ovalis

22/15 Nibblionella ?

30/13 Navicula very small V. Smith

27/33 | 28/33 Nibblionella acuminata ? 32/15 | 22/16

35/17 35/18 Cocconeis placentula ?

16/13 | Navicula lyra v. ?

26/22 = 26/23 Culiscus Grevillea

26/29 What ? Biddulphia

33/30 | Orthosira ?

21/23 Pinnularia distans

Pleurosigma Baltica

Isthmia broken

Navicula didyma

No. 1485. Slide for Bottom of Bemis Lake
C. H. Bush.

No. 1515 Slide No 8. Newberry -
Bodega, Sonora Co Cal.

No. 1516 Slide No 9. Newberry -
Pit River - Camm Creek

No. 1517 Slide No 10 Newberry -
Pit River

No. 1518 Slide No 12 Newberry -
Pit River - 20 miles
above Upper Canon

No. 1519 Slide No 14. Newberry-
Plain about Klamath Lake

No. 1520 Slide No. 25. Newberry-
Hills at Dalles

No. 1521 Slide No. 26. Newberry -

Mud of Lakes, Cascade Mts

60 1/4 / 70 7/8	Gomphonema geminatum	
65 / 60 1/8	Amphicampa mirabilis Ehr. See Mik. Pl. 33. VII fig. 2	65 / 60 1/4
	Cocconeis aspera	68 3/4 / 71 1/2
	Stauroneis pinnata Ehr. S. E. of last	"
	Cocconeis - numerous specimens	68 1/2 / 26 1/4
	Surirella splendida	67 / 64
	Surirella	66 3/4 / 66
	Cocconema	66 / 60
	Gomphonema	63 1/2 / 73 3/4
	Navicula	60 1/2 / 72 1/4
	Epithemia	59 1/4 / 83 3/4
	Gomphonema geminatum	58 1/4 / 29
	Gomphonema	53 3/4 / 71 1/2
	Cyclotella	53 3/4 / 86 1/4
	Cocconema	52 1/4 / 84 1/2
	Pinnularia ribbed	48 / 69 3/4
	Cyclotella	47 3/4 / 79 1/4
	Gomphonema geminatum	46 1/4 / 77
	" " ? side view	45 1/2 / 72 1/2
	Campylodiscus	43 1/2 / 64 1/4
	Cymatopleura elliptica ?	37 / 84 1/2
	Navicula Spencerii ? S. of a brown jointed spicule ?	36 3/4 / 80

No. 1522 Slide No 26. Newberry
$\frac{37}{79}$ Campylodiscus

No. 1523 Slide No. 30 - Newberry -
Klamath Lake

No. 1524 Slide No. 32 Newberry - Shoal Water Bay

		Stage
56 1/4 / 73 3/4	Coscinodiscus	56 1/3 / 73 3/4
49 / 78 1/8	Pinnularia frag. with large ribs -	48 7/8 / 74 3/4
53 3/4 / 26 1/8	" whole one	53 3/4 / 26 1/4
	Denticella auritum Ehr. N. of a large brown spot	
	Eunotia 4 toothed	
	Epithemia	
	Gomphonema Small one (record incomplete)	
41 / 74 3/4	Nitzchia	40 3/4 / 74 1/4
38 3/4 / 79 3/4	"	38 1/2 / 79 1/4
38 1/8 / 71 1/2	Pinnularia Digitus, large one	38 / 71 1/4
37 3/4 / 64	Synedra? or Nitzchia	37 3/4 / 63 1/2
42 1/2 / 60 1/2	Navicula Baltica	42 1/2 / 60 1/2
43 7/8 / 73 1/4	Nitzchia	43 3/4 / 72 1/2
38 / 78 3/4	Pinnularia peregrina?	38 / 78

No. 1525 Slide No. 33 Newberry - Shoal Water Bay.

		Stage
57 7/8 / 63 1/2	Coscinodiscus broken	57 7/8 / 63 1/2
70 1/2 / 69 1/4	Pinnularia Digitus	70 1/2 / 69 1/4
	"	68 / 71 1/2
	Actinoptychus	67 / 69 1/2
	Nitzchia	66 1/4 / 62
	Campylodiscus?	65 / 29
	Cocconema aspera	64 1/2 / 75 1/2
63 1/2 / 73	Pyxidicula? elliptica B.	63 1/2 / 73 1/4
63 1/2 / 69 1/4	Nitzchia 2 valves separate	63 1/2 / 69 1/2
	Pinnularia	62 1/2 / 83
	Pyxidicula elliptica? N.W. of last	"
61 1/2 / 76	Epithemia	61 1/2 / 75
60 / 61	Surirella?	60 / 61 1/4
	Cocconema Ehrenbergii or Pinnularia macgnalis	56 / 72
	Cocconema n. sp.?	50 3/4 / 72 1/4
45 1/4 / 72 1/2	Surirella	45 1/4 / 72 1/2
44 / 78 1/4	Nitzchia good one	44 / 78
42 7/8 / 63 1/4	Tetracyclus lacustris	42 3/4 / 63
42 3/4 / 25 2/3	Navicula (maculata? B.	42 3/4 / 25 1/4
37 3/4 / 63 1/4	Campylodiscus new	37 3/4 / 63 1/2

No. 1526 Slide No. 34 Newberry-
Rhett Lake

Recent Diatoms from Bodega Bay California

No. 1527 Slide St.

56 1/4 / 72 Arachnoidiscus Ehrenbergii B.

68 1/2 / 73 3/4 Aulacodiscus Oregonus Hor. et Bail.

64 1/4 / 74 1/2 Coscinodiscus? fine markings

63 1/4 / 76 3/4 Aulacodiscus Oregonus N. & B. 10 feet

58 / 67 3/4 " " 17 "

57 7/8 / 68 1/2 " " 12 "

57 1/2 / 75 1/4 " " 13 "

55 3/4 / 85 1/2 " " 18 "

51 1/4 / 73 1/4 " " 14 "

40 / 64 3/4 " " 12 "

38 1/4 / 67 1/4 " " 14 "

34 / 65 3/4 " " 12 "

42 / 72 1/2 " " 20 "

44 1/8 / 65 1/4 " " oblique view

63 / 72 " " " "

57 / 66 1/4 Cyclotella magna B. ined.

56 / 73 1/2 Isthmia obliquata, many other specimens (of this one on the slide)

55 / 64 1/4 Ceratauleus turgidus? Ehr. (= C. californicus B. ined) 68 / 71 1/2

53 1/2 / 72 Actinoptychus superbus B. ined.

51 / 68 Aulacodiscus Grux? Ehr. 4 feet

50 / 77 1/4 Ceratauleus turgidus? Ehr.

48 / 78 1/4 Hyalodiscus Californicus a beautiful test object for 1/4" or 1/8" objective

47 3/4 / 67 Hyalodiscus Californicus

51 / 83 " "

44 / 63 Stauroptera aspera Ehr. side view

39 7/8 / 64 3/4 " " top "

65 / 67 Triceratium alternans? C.S.

60 / 78 Cm. Oregonus 15 feet. single valve C.S.

Image Bacillariophyceae abundant

No. 1528 Slide B. "Bermuda Tripoli" -

58 7/8 / 61 1/4 Heliopelta Eulerii Ehr. (10 rays)

56 1/2 / 68 1/8 " " "

51 1/8 / 20 1/4 " " "

42 3/4 / 64 1/8 " Leeuwenhoekii Ehr. 8 rays

42 1/2 / 64 1/4 Lygoceros? Circularis B ined. N.E. of last

49 1/8 / 23 3/4 Triceratium undulatum Ehr. near a blue Actinoptychus -

55 / 29 7/8 Chaetoceros diploneis Ehr.

47 1/8 / 79 1/4 Triceratium (Small one seen edgewise)

" Heteromphalus. Small one, touching the last on the East -

54 / 78 1/2 Mastogonia 7 rays

60 1/4 / 77 Amphitetras? Small one. N.N.W. of an Actinocyclus {in same field -

60 1/8 / 69 Coscinodiscus omphalanthus? } Ehr.
" " " oculus-iridis?

" Triceratium W. of last.

47 1/4 / 86 1/4 Entodiscus quaternarius Ehr.

46 / 27 3/4 Coscinodiscus oculus-iridis? Ehr.

" Sceptroneis Caduceus Ehr. touching last -

" Sceptroneis Caduceus " 2 fragments {crossing, just above the Coscinodiscus

21 / 43 No descript. touching Coscinodiscus

No. 1529 Slide C. Richmond, Va.

55 1/8 / 28 Coscinodiscus gigas Ehr. large

" " " " small one.

" " oculus iridis Ehr. " " touching last.

62 1/4 / 63 3/4 " gigas Ehr.

68 3/4 / 69 3/4 " marginatus Ehr. (small)

" " gigas Ehr. E. of last.

68 1/4 / 73 " lineatus Ehr.

67 3/4 / 71 1/4 Dicladia? nov. sp.? (small)

62 / 67 1/4 Coscinodiscus lineatus Ehr.

" Mesocena circularis Ehr. N. of last.

60 1/2 / 69 Coscinodiscus perforatus Ehr.

" Systephania? touching upper margin of last.

" Dictyocha lens N.E. of last.

61 1/2 / 28 3/4 Chaetoceros incurvum B. N. of a broken Cosc. lineatus

58 3/4 / 75 " " (cingulum with 4 horns)

58 1/2 / 72 1/10 " " 2 horns broken, touching a bit of Cosc. marginatus.

59 / 63 1/4 Chaetoceros n. sp.? S.E. of a broken Cosc. gigas.

57 3/4 / 69 1/4 Coscinodiscus gigas Ehr.

" " oculus iridis? Ehr. 2 specimens touching last.

60 / 80 1/8 Navicula (Gyrosigma) sigma Ehr. at S.E. corner of a spot of lamp black.

" Chaetoceros. S. of spot of lamp black

50 7/8 / 69 1/2 Denticella Biddulphia } tridentata Ehr. side view

49 1/4 / 72 3/4 Biddulphia neglecta B. med.

" Actinocyclus Pyxidicula Ehr. S.S.W. of last touching a broken ring.

48 1/2 / 78 1/3 Navicula (Gyrosigma) sigma Ehr. near upper end of a long bit of Synedra

43 1/4 / 67 3/4 Gallionella sulcata Ehr. forming a column.

43 7/8 / 78 2/3 Bacteriastrum Virginicum B. med.

touching E. margin of a Coscinodiscus.

No. 159g Slide C. (Continued.)

42/72 Actinoptychus octodenarius Ehr.

" " " N. E. of last

" Dictyocha crux. 2 specimens in lower part of field

No. 153 Slide D. Maryland - Piscataway

63 2/3 Asterolampra Maylandica Ehr.

58 1/4 / 76 " "

45 1/4 / 69 1/2 " "

52 / 69 1/4 Coscinodiscus oculus-iridis? Ehr.

59 / 77 Denticella tridentata Ehr.

55 1/2 / 62 1/2 Rhaphoneis rhombus

" Mastogonia near last

52 1/4 / 67 3/4 Coscinodiscus, showing structure well.

50 1/8 / 66 " oculus-iridis Ehr.

48 / 67 1/4 Gomothecium top view

42 1/8 / 74 1/3 Craspedodiscus pyxidicula Ehr.

59 / 70 1/4 Omphalopelta areolata Ehr.

48 3/4 / 67 Mesocena triangularis

49 / 65

2

No. 1531 Slide E. Altamaha River - Georgia

46 2/3 / 81 3/4 Eupodiscus radiatus B. (Rice field earth)

63 1/4 / 72 1/2 " "

59 1/2 / 74 1/2 " "

57 / 77 1/2 " "

40 / 67 1/2 " " slightly deformed.

62 / 75 Triceratium favus Ehr.

61 1/4 / 78 1/4 " "

51 1/2 / 79 1/4 " "

59 3/4 / 77 Biddulphia Denticella } tridentata Ehr.

54 / 77 1/2 Amphitetras ornata Shadbolt. 5 angled variety

49 / 63 3/4 Eupodiscus germanicus Ehr. 3 feet.

47 / 61 1/4 " quaternarius Ehr. 4 "

49 / 76 1/4 Zygoceros rhombus Ehr.

46 1/4 / 61 " "

46 3/4 / 78 7/8 " "

46 / 68 1/4 Terpsinoë musica Ehr. seen obliquely

45 3/4 / 73 1/4 Coscinodiscus oculus iridis? Ehr.

Fossil (fluviatile) Diatoms

No. 1532 Slide F. West Point N.Y.

65/70 Navicula maegnalis Ehr. 4 specimens

54 3/4 / 71 1/4 Stauroneis Baileyi Ehr.

" Eunotia tetraodon touching W. of last.

" Navicula dilatata, just N. of Staur. Baileyi.

46 1/4 / 73 1/2 Navicula maegnalis Ehr. } vertical and side by side

" Stauroneis Baileyi " }

41 7/8 / 69 3/4 Stauroneis Baileyi "

" Navicula maegnalis " touching end of last.

54 7/8 / 64 3/4 Amphidiscus rotula Ehr. 2 specimens together (= Spongolites)

" Navicula maegnalis Ehr. W. of above

" Stauroneis gracilis Ehr. N. of last.

51 1/8 / 65 3/4 Amphidiscus anchora Ehr. lying across a bit of Pinnularia

55 3/4 / 75 1/4 Cocconema aspera Ehr.

" Navicula maegnalis. just below last.

41 1/8 / 81 1/8 Spongolithis aspera Ehr.

63 / 73 Navicula Bacillum Ehr. (small.)

" " " N. W. of last

62 1/2 / 67 3/4 Eunotia pinnodon Ehr.

No. 1553 Slide G. Blue Hill Pond, Me.

52/61 Pinnularia gigas Ehr.

59 1/8 / 73 2/3 " "

60 / 69 2/3 " "

59 / 67 7/8 " "

55 1/8 / 75 1/2 " " 2 specimens

55 / 63 7/8 Stauroneis Phoenicenteron Ehr.

51 1/2 / 29 1/3 Surirella splendida Ehr. obscured

44 1/2 / 77 1/4 Cocconema asperum Ehr.

No. 1534 Slide H.

Greensand and other casts of Polythalamia from cretaceous rocks, New Jersey, U.S. America

$\frac{49\,1/4}{79\,3/4}$ Spiral cast of a Rotalia

$\frac{57\,1/4}{73\,3/4}$ " " "

$\frac{48\,3/4}{71}$ " " "

$\frac{47}{60}$ portion of spiral, with connecting tubo-

No. 1535. Slide I. Enterprise Florida

200 miles fm. mouth of St. Johns R.

50/8 70/4 Terpsinoë musica top view

60/2 78 3/4 " "

" Achnanthes near W. of last

50/67/2 Terpsinoë musica

The great mass on the slide is composed of Odontella polymorpha of Kützing.

No. 1534 Slide J. Monterey
(Lower Miocene)

No. 1537. Slide K. N. Lake house
San Francisco

Soundings Atlantic Ocean

No. 1567 Slide A.

Lat. 57° 05' N. Lon 14° 30' W.

140 Fathoms

No. 1568 Slide B. 1360 Fathoms

Lat. 44° 41 N. Lon. 24° 35' W.

No. 1569 Slide C. 1360 Fathoms
Lat. 44°41' N. Long. 24°35' W.

No. 1570 D. 1340 Fathoms
Lat. 44°41' N. Lon. 24°35' W.

No. 1571 Slide E. 136 Fath.
Lat. 44° 41' N. Long. 24° 35' W.

No. 1572 F. 158 Fathoms
Lat. 49° 56' Lon. 13° 13' 45" W.

No. 1593 Slide G. 1580 Fathoms
Lat. 49° 56' N. Lon. 13° 13' 45" W.

No. 1594 H. 1580 Fathoms
Lat. 49° 56' 30" Lon 13° 13' 45" W.

No. 1595 Slide I. 2000 Fathoms.
Lat. 54°17' N. Lon. 22° 33' W.

No. 1596 J. 2000 Fathoms
Lat. 54°17' N. Lon. 22° 33' W.

No. 1577 Slide K. 1300 Fathoms
Bmd of Ocean

No. 1578 L. 1360 Fathoms.
Lat. 44° 41' N. Lon. 24° 35' W

No. 1579 M. 1360 Fathoms
Lat 44° 41' N. Lon 24° 35' W

No. 1580 Slide N. 33 Fathoms
Lat. 0-29'58" Lon. 45° 56' 35" W.

No. 1581 Slide O. 2150 Fathoms
Lat 13° S. Long. 162° E.

No 1581½ Slide O. Same as above

No. 1582 Slide P. Atlantic Ocean 2280 Fathoms
Ship Villa de Bilboa Lat. 0-21' N. Lon 23°28'52" W.

No. 1583 Q. Atlantic Ocean
Ship Villa de Bilboa Lat 0.21 N. Lon 23°28'52" W.

No. 1584 Slide R. Atlantic Ocean 2280 fm.
Ship Vila de Ribeira Lat 0. 21' N. Lon 23° 28' 52" W.

No. 1585 S. Deep Sea Soundings
Rhopalastrum largenosum Ehr.

No. 1586 Slide I. Atlantic Ocean
2280 Fath
Ship Villa de Bilboa - Lat 0.21' N. Lon. 23°28'52" W.

No. 1587 M. Atlantic Ocean
Fine photo - 2280 Fathoms.

Perry's Japan Expedition -

No. 1588 Slide A. (31 A.)

54/4 / 70 Denticella tridens Ehr. & frustules. small

52/8 / 71 1/2 " " " larger

42 / 63 " " 4 " large

No. 1589 Perry - B. (31 B.)

No. 1590 Perry C. (Card No. 1)

washed from a Sargassum.

$\frac{48}{28\,3/4}$ Entopyla 2 frustules

$\frac{40\,1/8}{38\,1/2}$

No. 1591 Perry D. Jeddo Bay

$\frac{57\,1/4}{87\,1/4}$ Anlacodiscus

$\frac{57\,3/4}{88}$ Arachnoidiscus Japonicus

$\frac{64\,1/4}{23\,1/3}$ Denticella bidulphia top view

$\frac{45}{82\,1/2}$ Anliscus

$\frac{61}{31}$ Nitzchia

$\frac{61}{27\,1/4}$ Tetragramma 2 frustules

No. 1592 Perry E. Jeddo Bay. 24

51 1/4 / 71 1/2 Aulacodiscus

41 1/2 / 62 1/2 Arachnoidiscus

37 3/4 / 91 3/4 "

No. 1593 Perry F.

42 7/8 / 73 3/4+ Campylodiscus

49 7/8 / 40 1/2+ 2 frustules of Tetragramma?

52 1/4 / 76 1/2 Campylodiscus

55 3/4 / 29 – Cyclotella Kützingii?

46 / 77 Nitzschia

47 / 28 2/3 Diploneis

49 3/4 / 24 1/2 Aulisicus

No. 1594 Perry G. Jeddo Bay - May 11 - 185
Sent to Judge Johnson

46 1/4 / 76 1/4 Amphitetras - with Denticella tridens near it
37 1/2 / 80 Aulisens
37 1/2 / 81 1/2 Camptylodiscus partly obscured
36 1/2 / 90 Aulacodiscus
58 3/4 / 89 Arachnoidiscus
63 / 73 1/4 Amphitetras
69 / 64 1/2 Aulisens - deformed
69 / 85 1/2 Amphitetras? rhombic form, {on other slides several seen
57 1/8 / 67 1/4 Aulacodiscus
42 1/4 / 71 1/2 Arachnoidiscus
36 1/2 / 85 + Aulacodiscus - dark - look at it as {object opaque
45 1/2 / 84 1/8 Aulacodiscus
30 / 61 1/2 Arachnoidiscus

No. 1595 Perry H. S. Side of Japan
50 1/4 / 30 1/2 Aulacodiscus -

Soundings - various.

No. 1596 Slide St. Ocean. 1300 Faths.

No. 1597 B. So W. of Sand I.
7 faths - 2 ft.

No. 1598 C. Portion 150 Faths.

$\frac{53\,3/4}{27\,1/4}$ Triceratium favus - very large

$\frac{42\,1/8}{80\,1/4}$ Podocystis ? fragment

$\frac{40\,1/8}{73\,1/4}$ Hyalodiscus radiatus good one

$\frac{42\,3/4}{72\,1/4}$ Encystidium ??

$\frac{59}{69\,3/4}$ Horn of Chaetoceros falcatum

$\frac{32}{73\,1/2}$ Halicarya with 2 holes.

$\frac{38}{75}$ Histrastrum Lambda fragt.

No. 1599 D. Strs. of Sangar 29 faths.
Hancock No. 1. Risings

No. 1600. E. Agulhas Bank. S. Africa
Light portions obtd. by floating. 70 faths.

No. 1601 F. Edge of Agulhas Bank.
Natural state. 70 faths. S. Africa

No. 1602 G. Key Biscayne 2½ faths.

No. 1603 H.
washed from Soundings Portion 15- 19 Faths.

No. 1604 I. Gulf Stream - Portion 9-
100 Faths.

No. 1605 J. 1800 Fathoms
(broken)

No. 1606 K. (broken)
Amphora? Lat. 0-32'

No. 1607 L. Coast of Georgia
Triceratium favus Ehr. Inland passage
60 miles from Jacksonville

No. 1608 M. Lat 38°. 04. 40 Lon. 73° 56. 47
90 Fathoms

No. 1609 N. Lat. 40. 59. 55 - Lon. 71. 48. 55
19 Fathoms

No. 1610 O. Soundings H. No. 1 - 90 Faths.
By levigation - Lat 38. 04. 40 Lon. 73-56. 47 -
S. E. of Henlopen.

No. 1611 P. Soundings N. No. 2 - 10 fathoms
By triangulation - Lat. 38.40.40 - Lon. 75. 0.30 -
S. E. of Cape Henlopen -

No. 1612 Q. Soundings N. No. 17 20 fathoms
By triangulation - Lat. 38.29.56 - Lon. 74.38.04
S. E. of Henlopen.

No. 1613 R. Soundings N. No. 67. 50 fathoms
By triangulation Lat. 38.09.23 Lon. 74.04.05
S. E. of Henlopen -

No. 1614 S. Soundings G. No. 27. 20 Fathoms.
By levigation- Lat. 38° 41'- Lon. 74° 06'-

No. 1615 T. Soundings G. No. 31- 50 Fathoms.
By levigation- Lat. 39° 28' 35" Lon. 72° 44' 35"

No. 1616 U. St. George's Bank
Peridinium longipes Bailey-

No. 1617 V. St. George's Bank
Peridinium

No. 1618 V. St. George's Bank.
Chaetoceros
Rhizosolenia

No. 1619 Z. Near Great Point Light-
Denticella dubra &c Nantucket

No. 1620 N. Near Great Pt. Light
Denticella dubia on Nantucket -

No. 1621 Z - Near New So. Shoal, off Nantucket -
Denticella dubia Bailey - See figure in Report
{ on Soundings

No. 1622 A' Soundings off Nantucket -
Denticella dubia 16 1/4 Fath.

No. 1623 B' Infusoria. Excavation for building, corner of Wall & Water Sts. N.Y.

No. 1624 C' Same as above

No. 1625 D'
Silicified Polythalamia.

No. 1626 E' 110 ft. under Charleston S.C.

No. 1627 F' 135 ft. below Charleston S.C.

No. 1628 G' Fort Wachita
Polythalamia in blue slaty clay.

No. 1629 H' Fort Wachita

No. 1630 I' Derry, Vt.
Fossil Infusoria, partly dissolved in Hydro^c acid

No. 1631 J' Derry Vt.
Same as above

No. 1632 K' Wrentham, Mass.
Fossil Infusoria

No. 1633 L' Bermuda
Chaetoceros diploneis side view.
near frofa Coscinodiscus

No. 1634 M' Bermuda

No. 1635 N' Bermuda.
Polycistinae

No. 1636 O' Bermuda
levigated –

No. 1637 P' Locality unknown.
Stauroneis partly dissolved in Hydrofluoric ac.
Navicula

No. 1638 Q' Locality unknown.

No. 1639 R' So. Carolina
Polythalamia

No. 1640 S' Mud of Kemble's Marsh -
Polythalamia -

No. 1641 T' Levant Mmd.
Denticella tridens.

No. 1642 U' Levant Mmd.

No. 1643 V' Levant Mmd

No. 1644 'W' Levant Sand

No. 1645 'X' Boston, Lincolnshire, Eng.
Fossil Lagenae
" Polythalamia

No. 1646 'Y' Same as above

No. 1647 Z' Eng-
Fossil animalcules contained in a substance called "Floating Brick".

No. 1648 A'' Thames Gravesend

No. 1649 B''
Polycistina
Wye, Maryland

No. 1650 C" Wye, Maryland.

No. 1651 D" Wye, Maryland

No. 1652 E" Wye, Maryland
Fossil Polyciotinae

No. 1653 F" Wye, Maryland.

No. 1654 G" Calvert Co. Maryland.

No. 1655 H" Petersburg.

No. 1656 I" Petersburg. Va"

No. 1657 J" Petersburg - 50 feet -

No. 1658 K." Petersburg. Va"
Euphodiens germanicus -

No. 1659 L" Petersburg, Va.
Euphodiscus quaternarius Ehr.
Denticella

No. 1660 M" Petersburg, Va.
Zygoceros rhombus.

No. 1661 N" Petersburg, Va.
Euphodiscus (Near North Run.

No. 1662 O" Petersburg Va.
Zygoceros rhombus
Euprodisens gimaria
E Rogersii

No. 1663 P" Richmond Va.
34 1/8 / 80 1/2 Dilytum (by candle light)
34 3/4 / 72 " N. W. of Lose. oc. iridis.

No. 1664 Q" Richmond Va.

53 3/4 / 61 7/8 d. Gomothecium obtusum ??
in the ring of a Coscinodiscus

48 1/2 / 60 3/4 d Gomothecium odontella Ehr.
4 specimens - side views.

47 / 65 d " odontella " "

67 1/2 / 43 3/8 b Goniothecium Rogersii Ehr.
in the ring of a Coscinodiscus

59 / 63 3/4 d Gomothecium obtusum ??

58 / 72 3/8 d " " 2 specimens -

65 7/8 / 24 a

45 1/2 / 28 a Biddulphia tridentata Ehr.

60+ / 72 3/4 d Craspedodiscus Coscinodiscus Ehr.

No. 1665 R" Richmond, Va.
+9/69 3/4 Tricerations, curiously distorted thick cast.

No. 1666 S" Richmond Va.
Chaetoceros recurvum

No. 1667 T" Richmond Va.

No. 1668 U" Richmond Va.
Chaetoceros a fragment.

No. 1669 V" Richmond Va.
Infusoria - Behind Monumental Church
Polythalamia - upper part of stratum.

No. 1670 W" Richmond Va.
3d Ravine behind Medical College.

No. 1671 "Z" Richmond Va.

No. 1672 "Y" Richmond Va.
Chaetoceras

No. 1673 "Z" - Richmond Va.
Upper part of stratum.

No. 1674 A. A. Richmond Va.

No. 1675 - B. B. Richmond

No. 1676 C. C. Richmond Va.
Triceratium Amblyceros.

No. 1677 D.D. Richmond, Va.
Disc from Infusoria -
Cosmodiscus gigas Ehr.

No. 1678 E.E. (probably Richmond)
$\frac{58\ 3/4}{70\ 1/2}$ Cosc. vc. iridis 2 specimens.
$\frac{52\ 1/2}{70}$ " "
$\frac{44}{74}$ Navicula Sigma
$\frac{45}{67}$ Craspedodiscus

No. 1679 F. F. Piscataway, Md.

No. 1680 G. G. Piscataway, Md.

No. 1681 H. H. Piscataway Md.
Heterolampra maryllandica

No. 1682 I. I. Petersburg Va.

No. 1683 J. J. Pamunkey River. Va.
(Miocene)

No. 1684 K. K. Hollis Cliffs - Va.

No. 1685 L. L. Brown's Mills Va.

No. 1686 M. M. Meherrin River Va.

No. 1687 N. N. Meherrin River Va.

No. 1688 O. O. Stratford Cliffs Va.

No. 1689 - P. P. Stratford Cliffs Va.

No. 1690 - Q. Q. Rappahannock Cliffs Va.

No. 1691 R. R. Rappahannock Cliffs

No. 1692 - S. S. Rappahannock Cliffs
Dr. Chilton

No. 1693. T. T. Rappahannock Cliffs -

No. 1694 M. U. Bristol Mine - Cliffs
on Rappahannock Va.

Fremont Series.

No. 1695 Slide A. Oregon.
Fossil Infusoria

No. 1696 B. Oregon
Fossil Infusoria

No. 1697 C. Oregon

No. 1698 D. Oregon
Fossil Infusoria

No. 1699 E. Oregon
Fossil Infusoria

No. 1700 F. "

No. 1701 Slide G. Oregon
Fossil Infusoria

No. 1702 H. "
Polythalamia -

Marine - Diatoms -

No. 1703 Slide 1a. St. George's Bank
From Stomach of Botryodactyla grandis -

No. 1704 1 b. Same as above

No. 1705 1 c St. George's Bank
Chaetoceros sc - from Stomach of Botryodactyla

No. 1706 Slide 1 d. St. Georges Bank.
from stomach of Boligodactyla grandis.

No. 1707 1 e. St. Georges Bank.
Same as above

No. 1708 2 a Fort Hamilton, N.Y.
Melosira

No. 1709 3a Rockaway, N.J.
Navicula Sigma?

No. 1710 4a Stonington, Conn.
Plenrosigma formosum Smith
Hyalodiscus

No. 1711 5a Edgartown Harbor.
Channel midway between inner & outer buoys.
Amphitetras

No. 1712 5b. Edgartown Harbor Mass.
Mastodiscus punctatus Bailey- Middle buoy.
Amphitetras

No. 1713 5c. Edgartown Harbor-

No. 1714 5d. Edgartown Harbor-
Euparodiscus-

No. 1715 5e. Edgartown Harbor, Mass.

No. 1716 5f Edgartown Harbor, Mass.

No. 1717 5g. Edgartown Harbor, Mass.
Mastodicus punctatus Bailey
Ceratanlus turgidus

No. 1718 5h. Edgartown, Mass.
Entosolenia

No. 1719 5i Edgartown Harbor, Mass.
Euprodiscus

No. 1720 6a Outer buoy off Cape Poge
Mastodiscus (Martha's Vineyard)

No. 1721 6b. Cape Poge-
Mastodiscus

No. 1722 6c. Cape Poge-

No. 1723 6d. Cape Poge-

No. 1724 6e Cape Page.

No. 1725. 6f. Cape Page
Mastodicus punctatus.

No. 1726 6g. Outer buoy Cape Page.
Entodiscus
Triceratium.

No. 1727. 6h. Cape Roge.

No. 1728 6i. Outer buoy Cape Roge.

No. 1729. 6j. Outer buoy off Cape Roge.

No. 1730. 6k. Cape Page.

No. 1731. 6l. Outer buoy. Cape Page.
Enfodiscus.

No. 1732. 6m. Outer buoy off Cape Page.

No. 1733. 6n. Outer buoy, Cape Poge.
Eupodiscus
Triceratium favus.

No. 1734. 6o. Outer buoy, Cape Poge.
Cerataulus turgidus Ehr.

No. 1735. 6p. Cape Poge.

No. 1736. 6g. Cape Page.

No. 1737. 7a Rio Janeiro.

No. 1738. 7b. Off Flores. Rio de Janeiro.

No. 1739- 8a Monte Video
Spicules and a few Diatoms- in mud-

No. 1740- 9a Buena Vista, Mexico

No. 1741- 10a East Indies-
Anchor mud

No. 1742 11 a. Assistance Bay.
Cornwallis Island.

No. 1743 12 a. Oregon

No. 1744 13 a. Gulf Stream
Grammostomum perelegans Bailey

No. 1745- 14 a. St. Julien S. America

No. 1746- 15 a Boston Harbor-
Podocystis Americana- Dr. Dunkee

No. 1747- 16 a Marsh near Fanning-

No. 1748 17 a Loc. unknown
Marine diatoms

No. 1749 17 b. Locality unknown
Marine diatoms

No. 1750 18 a Loc. unknown.
48 1/2 / 73 3/4 Nitzchia fig. 37 in ring
45 1/4 / 30 3/4 " another species
54 1/9 / 77 3/4 top view of a Polymyxos

No. 1751 18 b. Locality unknown.

$\frac{61\frac{1}{2}}{67\frac{1}{4}}$ Eupodiscus

$\frac{61}{69}$ Pinnularia magna B.

$\frac{54^{+}}{61\frac{3}{4}}$ Amphitetras cuspidata B.

$\frac{53}{11\frac{1}{4}}$ Nitzchia granulata B.

$\frac{50}{11\frac{1}{2}}$ " " other valve.

$\frac{49\frac{1}{2}}{85\frac{1}{3}}$ Ditylum

No. 1752. Slide A. Chalk England.

No. 1753 B. Chalk.

No. 1754 C. Chalk.

No. 1755 D. Chalk.

51 1/4 / 63 1/8 Nodosaria anglica? a fragment.

50 3/4 / 81 1/2 Spicule ?

46 1/2 / 70 1/8 Nodosaria monile obscured.

44+ / 68 1/4 Spiroplecta Rosula ?

43 3/4 / 23 1/4 Textilaria dilatata, broken but good.

No. 1756 E. Chalk. Dover, England.

No. 1757 F. Chalk, Dover, England
writing chalk used in Barracks, heated
first with Sulphate of Soda, then with CO^2

$\frac{33\,3/4}{77\,1/4}$ Grammostomum ? large one

" Rigenerina acanthophora N. W. of last
See Mik. Pl. 28 fig. 22

$\frac{41\,3/4}{74\,3/4}$ Grammostomum Scabrum Ehr.
See Mik. l.c fig 14

$\frac{70\,1/2}{65}$ Textilaria dilatata Ehr.
See Mik. l.c fig 7
its vertex at a yellow spot, or air bubble in last cell but one

$\frac{65}{69\,1/8}$ Plamlina omphalolapta l.c fig 4 & 5

$\frac{63\,3/4}{24\,1/4}$ Textilaria dilatata showing orifice

"This catalogue cannot belong to this slide
C.S."

No. 1758 G. Chalk.

$\frac{52\,1/2}{76}$?

No. 1759 H. Chalk from Dover, Sussex Eng.

No. 1760 I. Chalk from the interior of a flint. Silicified Polythalamia.

No. 1761 J. Chalk Meudon, France

No. 1762 K. Chalk, Meudon, France,

No. 1763 L. Chalk Marl Ehrenberg
Oran, Africa.

No. 1764 - M. Chalk Marl - Ehrenberg -
Oran, Africa

Smithsonian Contr.

No. 1781 Slide A. Greenport, N.Y.

41/35 2/3 Podocystis - fig. 37.

40/30 Surirella C.S.

49 2/28 Rhabdonema "

No. 1782 P. St. George's Bank

From Stomach of Blepodactylus grandis - acted on by acid - fig. 21. 22.

60+/64 1/3 Chaetoceros boreale

50 1/4/76 2/3 " "

49 3/4/72 1/2 " "

41 7/8/41 " " seen obliquely

44/43+ " " 2 specimens

No. 1783 Slide C. Hudson River.
$\frac{54\frac{1}{2}}{72\frac{1}{2}}$ Anliscus primosus B.

No. 1784 D. Garden Key, Florida
Climacosphaenia fig. 9 & 10.

No. 1785 E. Halifax -

68 1/4 / 69 7/8 Zygoceros radiatus ÷ B. oblique view.
65 1/2 / 70+ Gyrosigma faint, near a black spot.
64 / 74 1/4 Diploneis
63 / 72 1/4 Campylodiscus
64 / 75 Hyalodiscus. N.E. of the Diploneis - small one

No. 1786 - F. Ballast Point - Tampa Bay Florida

50 7/8 / 61 1/8 Tricerratium (fig. 25)
56 1/4 / 28+ Aulisens primosus B. oblique view
52 1/2 / 70 Eupodiscus radiatus B.
43 7/8 / 30 Aulisens primosus B.. top view

— C.S —

40 / 75 Aulisens primosus, side view, like the fig. in Smithsonian Cont.
45 / 74 Chamber shell very fine -

No. 1787 G. Ballast Pt. Florida

Washings of Sponge Dr. Tanarsdale

43 1/8 Diploneis
70 1/4
40 1/4 Stauliscus caelatus B.
78+
35 1/2 " " "
64 1/8

No. 1788. H. Ballast Pt. Florida

60 Stauroneis fruinosus B. 2 valves
39 7/8 broken
59 Triceratium
75 7/8

No. 1789 I. Duval's Creek, Florida
Campylodiscus cygnus B.
Campylodiscus clypeus.

No. 1790 - J. fig. 23 - 24.
Synedra undulata Bailey.

No. 1791 K. Petersburg, Va.
Euphodiscus germanicus -
Zygoceros rhombus -

No. 1792. L. Richmond, Va.
Chaetoceros recurvum fig 18 & 30 -
Zygoceros side view

No. 1793 - M. Niagara Falls.
Stephanodiscus Niagarae &c

No. 1794 - N. Halifax
65 3/4 / 22 - Navicula granulata B. fig. 15.
56 / 68 1/2 Amphiprora
51 3/4 / 63 3/4 Navicula sigmoid.

No. 1795. O. Halifax

52/67 Hyalodiscus broken.

41½/31 "

49/67 Zygoceros radiatus B. fig. 29

50/37½ Stauroptera oblonga B. 3 specimens.

C.S.

51/66 Campylodiscus? very remarkable.

No. 1796. P. Ilfracombe fig. 20.

Amphitetras antediluvium

Grammatophora africana?

No. 1797 Dido at Hudson River

No. 1798- B. Hudson River.

No. 1799- C. Hudson River, West Pt.

No. 1800 - D. near West Point on Hudson River
Licmophora
Cocconema
& other parasitic Infusoria -

No. 1801 - E. Hudson River, N.Y.

No. 1802. F. Hudson River near West Pt.

No. 1803 G. Hudson River near W. St.
Licmophora ?

No. 1804 - H. Hudson River

No. 1805 - I. Hudson River

No. 1806- J. Hudson River.
Coccoonema
Bacillaria paradoxa

No. 1807- K. Hudson River
U.B. the lowest filament

No. 1808- L. Hudson River
Licinophora

No. 1809. M. Hudson River

No. 1810. N. Hudson River

No. 1811. O. Hudson River

No. 1812 - P. Hudson River

Desmidiae.

No. 1813 Slide A Westmoreland England.

No. 1814 - B. Westmoreland, Eng.

No. 1815. C. N. Wales -
Telnemorus Brebesonii

No. 1816- D. Wales.
Enastrum affine

No. 1817- E. N. Wales.
Enastrum pelta.

No. 1818- E.
Enastrum gemmatum-

No. 1819. G. No locality.

No. 1820. H. Wales.
Enastrum pelta.

No. 1821. I. Coast of Yorkshire.
Trincatulina tuberculata.

No. 1822. J. Dolgelly, Wales.
Xanthidium furcatum

No. 1823. L. West Point. N.Y.
(Tyndaridae

No. 1824. M. West Point, N.Y.
Closteria

No. 1825- N. England.
Plocaniums coccineum -

No. 1826. O. Wales.
Delmidium cylindricum -

P. Q.R. missing -

No. 1827. S.
Closterium digitum -

No. 1828 - T. Wales.
Closteria -

No. 1829 - U. Wales -
Staurastrum incus

No. 1830. V.
Staurastrum - needs high power -

No. 1831. W. N. Wales -
Closterium lunigidum -

No. 1832. X. Wales.
Desmidieae -

No. 1833 Y. England.
Desmidieae

No. 1834 Z. Wales.
Desmidieae.

From Florida -

No. 1859 - Slide 1a. St Augustine Florida (Bridge)
Hyalodiscus

No. 1860 - 1b. St. Sebastian River near San Augustine -
Coscinodiscus
Eupodiscus radiatus
Tetragramma Americana - side & end view -
Mastodiscus -

No. 1861 - 1c. Bridge at San Augustine -

No. 1862. 1d. Bridge over San Augustine -
Hyalodiscus -

No. 1863 - 1e. Anastasia Island
near San Augustine -
Amphora
Amphoraceae

No. 1864 - 1f. St. Augustine -
Triceratium favus Ehr.

No. 1865- 1 g. Bridge near St Augustine-
(not lengated.)

No. 1866- 1 h. " " "

No. 1867- 1 i- Near St. Augustine Fla-
Tetragramma Americana Bailey-

No. 1868. 1 j. Bridge - St. Augustine

No. 1869 - 1 k. Same as above -
Hyalodiscus

No. 1870 - 1 l. Bridge at San Augustine
Mastodiscus -

No. 1871- 1 m. St. Sebastian River-
near San Augustine-
Triceratium fama Ehr.
Denticella ?

No. 1872- 2 a. Duval's Creek Florida-

No. 1873 2 b. Duval's Creek, Fla.

No. 1874- 2c. Duval's Creek, Florida

57 3/4 / 67 1/4 Terpsinoë musica Ehr.

54- / 35 1/2- " " 2 spec. end views-

57 1/2 / 38 7/8 " "

59 7/8 / 32 1/8 Stauroneis maculata B.

44 1/3 / 39 1/8 " " with T. musica

No. 1875- 2d. Duval's Cr. Florida-

Campylodiscus clypens-

No. 1876- 2e. Duval's Creek Florida-
Enterprise-

Terpsinoë musica

Stauroneis punctata

No. 1877. 2 f. Duval's Co. Enterprise Fla.

No. 1878. 2 g. Duval's Co. Florida.

No. 1879 3 a. Coast of Florida
Recent Polythalamia.

No. 1880 - 3b. Garden Key Florida
Rhabdonema washed from Algae -
Grammatophora -

No. 1881 - 3c. Tortugas "
Climacosphenia -

No. 1882. 3d. Garden Key Florida
Climacosphaenia ramosa Bail -

No. 1883. 3e. Inland passage 50 miles from Jacksonville

No. 1884. 3f. Inland passage 60 miles from Jacksonville

No. 1885. 4a. Ballast Pt. Tampa Bay. Nastodiscus punctatus B.

No. 1886. 4 b. Tampa.
Euphodiscus radiatus B.

No. 1887. 4 c. Ballast Point, Tampa Bay.
Mastodiscus prominens. B.

No. 1888. 4 d. Tampa Bay.
Mastodiscus prominens Bail.

No. 1889. 4e. Ballast Point, Tampa.
Mastodiscus.
Eupodiscus.

No. 1890. 4f. " " "

No. 1891. 4g. " " "

No. 1892. 4 h. Tampa Bay, Florida
Mastodiscus pruinosus P.

No. 1893. 4 i. Ballast Point, Tampa Bay.
Grammatophora sp.

No. 1894. 4 j. Ballast Point Tampa Bay.
Fragment of a large Mastodiscus pruinosus.

No. 1895. 4 k. Ballast Point Tampa.
Actinoptychus?
Grammatophora
Mastodiscus fruinosus
Eupodiscus radiatus &c

No. 1896. 4 l. Ballast Point, Tampa.

No. 1897. 4 m. Tampa.

No. 1898- 4 n. Tampa.
Amphiprora-

No. 1899- 4 o. Tampa.
Infusorial Stratum-

No. 1900- 4 p. Tampa.
Infusorial stratum-

No. 1901. 4 q. Ballast Pt. Tampa Bay.

$\frac{45\,1/4}{66\,7/8}$ Auliscus primosus B.

$\frac{48}{60\,2/3}$ Eupodiscus radiatus B.

$\frac{47}{62\,1/2}$ Actinoptychus 16 rays.

$\frac{57\,1/2}{72\,3/4^{+}}$ = Tryblionella scutellum Sm.

Surirella circumsuta B.

No. 1902. 4 r. Ballast Pt. Tampa Bay, Fla.

Primularia

Actinoptychus 12 rays.

No. 1903. 4 s. Ballast Pt. Tampa Bay.

Triceratium zeligerum B.

No. 1904- 4 t. Ballast Pt. Tampa-
Mastodisens
Enpodisens-

No. 1905- 4 u. Ballast Pt. Tampa Bay-
side view of Mastodisens primorsus-

No. 1906- 4 v. Ballast Pt. Tampa Bay-
Triceratium setigerum B-

No. 1907- 4 a. Near Tampa, Fla.
Infusorial Stratum.

No. 1908- 5 a. Pinellas, Florida.
Diatoma.

No. 1909- 5 b. Little Hillsborough River "

No. 1910 - 5c. Volusia, Florida.
Terpsinoë musica Ehr.

No. 1911 5d. Anastasia Is. Florida.
Amphora
Amphiprora.

No. 1912 - 5e. Cape (Doane?)
Mastodiscus inaequalis. side view.

No. 1913. 5f. Palatka, Florida.
Diatoma Ehrenbergii

No. 1914. 5g. Demaders Creek Fla.
Campylodiscus.

No. 1915. 6a. Off St. Simons Is., Georgia
Terpsinoë musica
Triceratium favus.

No. 1916- 6b. Hopeton, near the Altamaha-
Telragramma americana, (side view)

No. 1917- 6c. Savannah, Ga.
Mud of Rice field ditches

No. 1918 6d.
Rice fields 10 miles above Savannah, Ga.

No. 1919- 6e. Rice fields, 10 miles above Savannah, Georgia

No. 1920- 6f. Rice fields, 10 miles above Savannah, Ga.

No. 1921- 6g. Rice fields, 10 miles above Savannah, Ga.

No. 1922 - 6h. Rice fields 10 miles above Savannah, Ga.

No. 1923 - 6i. Same as above.
(not irrigated.)

No. 1924 - 6j. Fort Jackson, near Savannah.

No. 1925. 6 k. Rice Fields.
Found in irrigation Col. McAllister.

No. 1926. 7 a. Sullivan's Is. So. Ca.
Grammatophora.

No. 1927. 7 b. Grahamville So. Ca.
Peridinium.

No. 1928- 8a Rice fields 2 ft. below (surface) Wilmington N.C.

No. 1929- 9a. Mud. Charleston, S.C.

No. 1930- 9b. On the Ashley River, 6 miles from Charleston, S.C.

No. 1931- 9c. Charleston, S.C.
Amphitetras-

No. 1932- 9d- Charleston, S.C.

No. 1933- 9e. Charleston, S. Ca.

No. 1934- 9 f. Charleston, S.C.

No. 1935- 9 g. Charleston, S.C.

No. 1936- 10 a. Centreport, Alabama.

No. 1937. 10b Centreport, Ala.

No. 1938. 10c Centreport, Ala.

No. 1939. 10d Centreport, Ala.

No. 1940. 10 e. Centreport, Alabama

No. 1941. 11 a New Orleans, La.

No. 1942. 12 a New Braunfels, Texas.
Terpsinoë musica Ehr.

No. 1943. 13a Missouri River
near St. Louis.

No. 1944. 14a Jackson, Miss.

No. 1945. 15a Artesian Well 48 to 58 ft.
Fort Monroe, Va.

No. 1946. 15b Mud of James River
City Point, Va.

No. 1947. 15c. Coal River, Va.

No. 1948. 15d Williamsburg, Va.

No. 1949. 16a Old Point Comfort 1a
Surface Rot.

No. 1950. 16b Old Point Comfort.
53 to 56

No. 1951. 16c Old Point Comfort.
48 to 53

No. 1952. 16 d Old Point Comfort, Va
Polythalamia

No. 1953. 16 e. Old Point Comfort.
Depth 98 to 105.

No. 1954. 16 f. Old Point Comfort.
54 to 68 feet.

No. 1955. 16g. Old Point Comfort.
84 to 89 ft.

No. 1956. 16h Old Point Comfort.
53 to 56 ft.

No. 1957. 16i Old Point Comfort.
84 to 89 ft.

No. 1958. 17a Traverse Bay, Lake Michigan

No. 1959. 17b. " " "

No. 1960. 17c. " " "

No. 1961. 17 d. Traverse Bay, Lake Michigan
Recent Infusoria

No. 1962. 17 e. Lake Elizabeth
Oakland Co. Michigan.

No. 1963. 17 f. Oakland, Michigan.

No. 1964. 17 g. Oakland Co. Michigan -

No. 1965. 17 h. " " "
Recent Infusoria

No. 1966. 17 i. " Michigan

No. 1967. 17 j. Mackinaw.

No. 1968. 17 k. Oakland Co. Mich.

No. 1969. 18 a Morris Co. New Jersey.

No. 1970. 18 b. Mapleton N. Jersey.
Navicula very minute.

No. 1971. 18 c. From mud of Delaware River
at Burlington N. J.
Surirella &c

No. 1972. 19 a Cleveland, Ohio.

No. 1973. 19 b. Pier at Cleveland, Ohio.
Gloconema paradoxa

No. 1974 - 20a Rockaway N. J.
Biddulphia fulchella

No. 1975 - 20 b. Rockaway N. J.
Navicula Baltica
Mastogloiens radiatus.

No. 1976. 20 c. Rockaway.
Triceratium favus Ehr.

No. 1977. 20 d. Rockaway
N. Baltica
N. Sigma?
Mastodiscus radiatus.

No. 1978. 20 e. Rockaway.
Amphiprora carinata.
Navicula Baltica

No. 1979. 20 f. Rockaway.
Amphiprora.
Mastodiscus.

No. 1980. 20 g. Rockaway.
Amphiprora

No. 1981. 20 h. Rockaway.

No. 1982. 21 a Hudson River, N.Y.

No. 1983. 21 b. " " "

No. 1984. 21 c. " " "

No. 1985. 21 d Hudson River, N.Y.
Mastodiscus radiatus B.

No. 1986. 21 e. From mud of Hudson River

No. 1987. 21 f. Hudson River N.Y.
Trichoplumus favus Ehr.

No. 1988. 21 g. Hudson River, N.Y.

No. 1989. 21 h. " " "

No. 1990. 21 i. " " "

No. 1991. 21 j. Hudson River, N.Y.

No. 1992. 21 k. Sound of New York Docks.
Ceratanthus longidens.

No. 1993. 21 l. Sound Hudson River
Hyde Park.

No. 1994. 21 m. Hudson River, N.Y.
Navicula
Ceratoneis longissima
Surirella
Triceratium favus.

No. 1995. 21 m. Hudson River N.Y.
Amphiprora alata? Ehr.

No. 1996. 22a Greenport. N.Y.

No. 1997. 22 b. Greenport, N.Y.
Ceratoneis.

No. 1998. 22 c Greenport, N.Y.
Grammatophora

No. 1999. 22 d Greenport, N.Y.
Podocystis.

No. 2000. 22 e. Greenport, N.Y.
Fragments of Amphiprora

No. 2001. 22 f. " "

No. 2002. 22 g. Salt Marsh "

No. 2003. 22 h. Greenport. L. Island
Navicula, with delicate diagonals N.Y.
& cross lines.

No. 2004. 22 i. " "
Navicula Same as above

No. 2005. 22 j. " "
Grammatophora subtilissima.

No. 2005½ 22 k. Greenport, N.Y.

No. 2006. 23a West Point, N. Y.
Stauroneis Baileyi
Tabellaria
Navicula iridis.

No. 2007. 23 b. Catskill Pond. N. Y.
Closterium nodosum.

No. 2008. 23c. Round Pond, near West Pt.
Recent Infusoria

No. 2009. 23 d. Mill Pond, West Point.
Stauroneis - side view.

No. 2010. 23 e. Mill Pond, West Pt.

No. 2011. 23 f. Mill Pond, near West Pt.
Surirella splendida Ehr.
Cocconema cymbiforme Ehr.
Difflugia

No. 2012. 23 g. West Point, N.Y.
Meridion circulare.

No. 2013. 23 h. West Point, N.Y.
Gallionella

No. 2014. 23 i West Point, N.Y.
Meridion circulare

No. 2015. 23 j. Round Pond, near West Pt.
Xanthidia

No. 2016. 23 k. West Point.
Mouth of Hudson River.
Camptylodiscus Argus

No. 2017. 23 l. West Point.

No. 2018. 23 m. West Point. April 1. 1849.
Meridion circulare.

No. 2019. 23 m. West Point, N.Y.
Himantidium Arcus Ehr.

No. 2020. 23 o. West Point, N.Y.
Himantidium Arcus Ehr. et Tabellaria flocculosa Ehr. } mixta

No. 2021. 23 b. West Point, N.Y.
Triceratium favus Ehr.

No. 2022. 24a Mandalme, Vt.

No. 2023. 24 b. New Durham Vt.
Derry Vt. } one slide.

No. 2024. 25a Near Tarrytown N.Y.
Westchester Co.

No. 2025. 25b. (Croton) N.Y.

No. 2026. 26a Derry, N.H.

No. 2027. 27a Cherryfield, Maine.

No. 2028. 27b. Blue Hill Pond, Me.

No. 2029. 28a Boston Harbor, Mass.
Fragillaria

No. 2030. 28 b Boston Harbor Mass.

No. 2031. 28 c. Boston, Mass.

No. 2032. 28 d. Boston, Mass.

No. 2033. 28 e. Boston Harbor, Mass.

No. 2034. 28 f. Massachusetts Bay.
Sethnia obliquata

No. 2035. 28 g. Wendell, Mass.
Dr. Deane.

No. 2036. 28 h. Wrentham, Mass.
Silicons infusoria acted upon by Hydrofluoric (acid)

No. 2037. 28 i. Salem, Mass.

No. 2038. 29 a Stonington, Conn.
Pleurosigma formosa

No. 2039. 29b Stonington, Conn.
Pleurosigma.

No. 2040. 29c Stonington, Conn.
Navicula Baltica

No. 2041. 29d. Stonington, Conn.

No. 2042. 29 e. Stonington, Conn.
Grammatophora.

No. 2043. 30 a Providence R. I.
Grammatophora

No. 2044. 30 b Providence R. I.
Achnanthes.

No. 2045. 30c. Bristol Ferry, R.I.
Biddulphia pulchella

No. 2046. 30d. Bristol Ferry, R.I.
Biddulphia pulchella

No. 2047. 31a Locality unknown
with the regards of
A. S. Johnson, 1883
Arachnoidiscus Japonicus

No. 2048. 31 b. Locality unknown.
Arachnoidiscus.

No. 2049. 31 c. Locality unknown
Arachnoidiscus Japonicus.

No. 2050. 32 a Fort Jackson.
Md.

Foreign Diatoms

No. 2060. Slide 1a River Humber. Eng.
adjoining salt-water ditches.

No. 2061. 1b. Humber, Eng.
Recent Infusoria

No. 2062. 1c. Avon River near Bristol
Surirella. Eng.

No. 2063. 1d. England.
Gomphonema ocellatum.
Meridion

No. 2064. 1e. Fleetwood, England.
Gomphonema paradoxa.

No. 2065. 1f. Ilfracombe, England.
Sethnia inerris
Biddulphia

No. 2066. 1 g. Ilfracombe, Eng.
Biddulphia pulchella
Amphitetras

No. 2067. 1 h. Ilfracombe, Eng.
Isthmia enervis.

No. 2068. 1 i. Ilfracombe, Eng.
Isthmia enervis
Biddulphia pulchella
{boiled in Nitric acid

No. 2069. 1 j. near London, Eng.
Xanthidium ramosum in flint

No. 2070. 1 m. Anglesea, Wales.
Achnanthes subsessilis.

No. 2071. 1 n. North Wales.
Gomphonema geminatum

No. 2072. 1 o. North Wales.
Fragillaria pectinalis.

No. 2073. 1 p. Dolgelly, Wales.
Selenia.

No. 2074. 2 a Nova Scotia.

No. 2075. 2 b. Nova Scotia.

No. 2076. 2 c. Earlton, Co. of Colchester
Nova Scotia.

No. 2077. 2 d. Halifax
Washed from an Agarum, not cleaned.

No. 2078. 2 e. Halifax
Stamnopteria.

No. 2079. 2 f. Halifax
Diploneis Entomon Ehr.

No. 2080. 2 g. Halifax.
Spine of ?

No. 2081. 2 h. Nova Scotia.
Stauroneis Bailey's
Stauroneis difficult

No. 2082. 2 i. Halifax, N.S.
1/2 of a large Hyalodiscus
Hyalodiscus laevis small
Grammatophora stricta
" serpentina? (test)

No. 2083. 3 a Loc. unknown
Mastogloia

No. 2084. 3b. Locality unknown.
Amphiplenra.

No. 2085. 3c. " "
Plenrosigma angulatum

No. 2086. 3d. " "
Plenrosigma fasciola

No. 2087. 3e Locality unknown.
From Mud on Oysters.
Navicula Baltica
" angulata.
" Sigma
Mustodiens.

No. 2088. 3f. " "
Triceratium Setigerum.

No. 2089. 3g. " "
Triceratium favus Ehr.

No. 2090. 3h. Locality unknown.

No. 2091. 3i. " "
Cocconema
Cocconeis.

No. 2092. 3j. " "
Fresh water diatoms.

No. 2093. 3k. Locality unknown.
Stratella arcuata.

No. 2094. 3l. " "

No. 2095. 3m. " "
Arachnoidiscus - on Thamnophora

No. 2096. 3 m. Loc. unknown.
"Metallic lustre" from a Daguerreotypist.

No. 2097. 3 o. Loc. unknown.
Entophyla. Found on Thamnophora.
Arachnoidiscus Japonicus

No. 2098. 3 p. " "
Striatella arcuata on Gracilaria erecta.

No. 2099. 3 q. Locality unknown.
Acted upon by Hydrofluoric acid
Isthmia

No. 2100. 3 r. " "
Biddulphia pulchella

No. 2101. 3 s. " "
Diatoms.

No. 2102. 4 a. Mud from St. Helena

No. 2103. 4 b. " " "

No. 2104. 4 c " " "
2 Lagenae

No. 2105. 4d. Mud from St. Helena.
Lagena

No. 2106. 5a. Jamaica, West Indies
Dentiscella tridens Ehr.

No. 2107. 5b. Port Royal, Jamaica W.I.
Serpulinoe rumsica side & end view

No. 2108. 5c. Port Royal, Jamaica W.I.
Serpulinae musica

No. 2109 6a. Outer Harbor Rio de Janeiro.

No. 2110 6b. Rio Janeiro.
Clinacosphaenia - (thin glass.)

No. 2111. 7a. Malta.

No. 2112. 7b. Italy.
Crystal Palace N.Y.

No. 2113. 7c. Adriatic.
Grammatophora.

No. 2114. 8a. In wood from Bombay.

No. 2115 9a Cape of Good Hope.

No. 2116. 10a Saltillo, Mexico.

No. 2117. 11 a. Tripoli de Bohême

No. 2118. 11 b. Franzenbad, Bohemia.
Camptylodiscus clypeus Ehr.

No. 2118½ 11 c Franzenbad.
Kiesel Guhr

No. 2119. 12 a. Oberhohe in Lüneburg.
Bergmehl. 41 ft. thick

No. 2120. 12 b. Bilin
Polirschiefer.

No. 2121. 12 c Berlin.
Artificial Kieselguhr.

No. 2122. 12 d. Hungary.
Polirschiefer.

No. 2123. 12 e. Berlin - Fossil -

No. 2124. 12 f. Bilin
Tripoli -

No. 2125. 13 a Baltic, Copenhagen -
Campylodiscus Echeneis - Ehr.

No. 2126. 14 a. Near Philadelphia
Asia Minor.

No. 2127. 14 b. Smyrna.
Infusoria – on Cadium flabelliforma

No. 2128 15 a. Singapore.

No. 2129. 16 a. Soolvo Sea.

No. 2130. 16 b. Soolvo Sea.

No. 2131. 17 a. Cape of Good Hope.
Ex. Expt.

No. 2132. 18 a.
Infusoria from Soil from Cook's Straits
elevated 100 feet.

No. 2133 19 a Madeira

No. 2134. 19 b. Madeira

No. 2135. 19c Madeira?

No. 2136. A. East Indies.

60/2
83/8 Coscinodiscus.

56
80/4 Cyclotella Kützingiana

54
33 Coscinodiscus broken.

65
64 3/4 Diploneis.

No. 2137. B. East Indies.

45 1/2 / 72 1/2 Small Campylodiscus N. of a long spinulo
45 1/4 / 67 1/2 " Surirella
42 / 84 Actinocyclus (of no particular interest.)
41 / 71 1/2 Cyclotella Kützingiana? + edge view of Gallionella sulcata.
40 / 74 1/4 Cyclotella Kützingiana?
43 / 78 form allied to Fragª paradoxa
55 / 77 Pinnularia
56 / 78 1/4 Diploneis, N. W. of a Fragillaria
55 1/4 / 83 Fragt. of Tessella.
55 1/8 / 84 1/4 Stauroptera a fragt.
✓ 60 / 67 1/2 Triceratium
63 / 61 1/4 Campylodiscus Clypeus? fragt.
62 1/4 / 75 1/4 Diploneis — ? a large fragt.
62 1/2 / 63 1/4 Stauroptera? indica B. nov. sp.
52 1/4 / 85 Coscinodiscus.
✓ 54 / 68+ Diploneis
50 1/2 / 62 1/4 Cyclotella Kützingiana
49 3/4 / 73 3/4 Polymyxos — does not belong here, got in in dust of room?
✓ 48 / 69 1/4 Terpsinoë? Tetragramma?
✓ 47 / 80 1/3 Diploneis — a good one.
47 1/2 / 81 1/4 Tetragramma? a fragt.
35 1/4 / 82 fragt. of a delicate Navicula.

"Those marked ✓ by new Indicator."

No. 2138. C. East Indies.

61 1/2 / 61 1/2 Stauroptera Indica n. sp. B.

48 1/2 / 70 1/2 " "

48 1/4 / 77 Primularia nov. sp.?

No. 2139. D. East Indies.

59 / 14 3/4 Syringidium in a bit of clay.

56 / 27 1/4 Triceratium unequilateral T. favus.

56 1/4 / 79 1/4 fragment of Syringidium

55 1/2 / 63 1/4 Stauroptera Indica B. N.E. of air bubble.

59 / 30 Hyalodiscus Californicus - introduced accidentally & does not belong here

68 / 23 1/2 Piece of Tetragramma.

60 1/2 / 69 Coscinodiscus

57 / 32 Tessella

46 1/8 / 32 3/4 Coscinodiscus

39 3/4 / 34 1/4 Stauroptera Indica B.

37 1/2 / 49+ " " side view.

No. 2140. E. Mindanao.
Triceratium - on Avicula

No. 2141. F. Philippine Islands -
On Hammer Oyster.

No. 2142. G. Mindanao.

No. 2143. H. Philippine Islands -
Sind m Cuicula -

No. 2144. I. Mindanao -

No. 2145. J. Mindanao -
Amphitetras ra

No. 2146. K. Mindanao.

No. 2147. L. Mindanao.

No. 2148. M. Mindanao, Philippines.
Dictyocha splendens.

No. 2149. N. Mindanao.

No. 2150. O. Mindanao.

No. 2151. P. Mindanao.

No. 2152. Q. Mindanao.

No. 2153 R. Sydney, Australia.
Pminlaria Sea weed.

No. 2154. S. Hobart Town, Australia.
Seaweed.

No. 2155. T. Port Orford Australia ?
Biddulphia
Cocconeis
Hyalodiscus
Isthmia obliquata ?
Rhabdonema ?
Melosira

No. 2156. U. Port Orford

No. 2157. V. So. Australia
Diatoms on Azolla rubra.

No. 2158. W. New Zealand.
Fossil Infusoria.

No. 2159. X. " "
Fragillaria on Nitella.

No. 2160. Y. Patagonia

No. 2161. Z. Unicorn Bay
Inciratum Dr. Sutherland

No. 2162 A' Terra del Fuego.
Entolyphlu Australis

No. 2163. B' Maui, Sandwich Is.
On Sargassum echinocarpum
Coscinodiscus?

No. 2164. C' Hawaii Sandwich Is.
Cocconeis on Halisiris plagrogramma

No. 2165. D' Hawaii.
Biddulphia

No. 2166. E' Byron's Bay, Hawaii.
Meloseira?

No. 2167. F' Sandwich Islands.
Meloseira sp

No. 2168. G. Tongatabo
On Valenia imbricata

No. 2169. H. Feejee Islands.
Amphiprora.

No. 2170. I. Wilson's Sd. Pomarata Group.

No. 2171. J. Wilson's Is. Paumotu Group

No. 2172. K. Society Islands

No. 2173. L. Society Islands.

No. 2174. M' Tahiti.
Biddulphia

No. 2175. N' Tahiti.
Triceratium - a single frustule.

No. 2176. O' Tahiti.
Gallionella sc. washed from an Alga

No. 2177. P' Tahiti.
or Gelidium

No. 2178. Q' Tahiti.
Climacosphaenia australis.
Triceratium
Tessella punctata.

"This slide contains
Tri- concavum
" amphra - Sand. Is.
or T. gibbosum?
Climacosphaenia = called by B - australis -
if it shows lines, then it is monilegera -
Biddulphia aurita?" C.S.

No. 2179. R' Tahiti.
Triceratium

No. 2180. S' Tahiti.
"Cocconeis parmula H et B:
Triceratium (Sam'l Ds. sp.) H et B. 1 specimen seen
Tri. favus? 1 spec. many-
C.S."

No. 2181. I. Tahiti.

$\frac{56\,3/4}{63\,1/8}$ + Zygoceros nov. sp. broken.

$\frac{53\,1/2}{29\,2/3}$ + Denticella Biddulphia? 4 frustules. filled with balsam.

$\frac{50\,1/8}{30\,1/2}$ Hyalosira punctata - B.

$\frac{50\,3/4}{70\,1/2}$ Denticella 5 frustules - with air.

$\frac{50\,7/8}{77\,2/3}$ Triceratium - with side view of same.

$\frac{47\,3/4}{78\,1/2}$ " top view - 2 frustules.

$\frac{48}{80\,1/8}$ Denticella - edge view of 4 frustules.

Recorded by thin enamelled cmd.

No. 2182. II Tahiti.

"

$\frac{57}{63}$ Zygoceros? radiatus B.

$\frac{47}{66}$ Cocconeis parmula N et B.

$\frac{51}{78}$ Tri. concavum?

$\frac{47}{74}$ " " ?

$\frac{42}{79}$ " " ?

$\frac{49}{66}$ " Sandwich Is. species - Can it be N et B's T. gibbosum?

" fragt. of T. concavum.

$\frac{50}{68}$ Another like $\frac{49}{66}$ - P V + broken

$\frac{51}{71}$ Biddulphia pulchella - filament of 6 frustules - 2 of another species.

$\frac{45}{68}$ T. concavum. oblique.

Rhabdonema minificum all over the slide - very large not named in Bailey's list.

Circles supposed by B. registered by C.S."

No. 2183. V Tahiti.

Biddulphia reticulata - n. variety - 2 frustules

Tri. obtusum? attached without coing membrane.

$\frac{35^2}{78}$ Podocystis adriatica? Kütz. oblique.

$\frac{30^2}{85}$ Tri. "

$\frac{27}{84}$ 2 more do. C.S.

No. 2184. V Tahiti.

Rhabdonema minificum

Tri. concavum.

Cocconeis parmula

Biddulphia pul.

2 frustules attached of Tri. obtusum $\frac{32^2}{80 \text{ or } 81}$

using top and end of slide for guide lines.

C.S.

No. 2185. X. Tahiti.

on a Turbinaria.

35/81 Podocystis Americana B. nearly like B fig. but no description to refer to.

37/90 Very fine Tricerations.

C.S.