

# A Record of the Teleostean Eggs and Larvæ observed at Plymouth in 1897.

By

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Abbreviations employed: sev. = several; m. = many; v.m. = very many; o.g. = oil globule.

For convenience of tabulation the different stages of development have been divided into three groups: Stage I. = if fertilised, stages up to the outgrowth of the eyes; II. = from I. up to the appearance of the caudal rudiment; III. = from II. up to hatching.

Since the ova were not always examined immediately after their capture, it has been necessary in many cases to compute the stage exhibited at that time. The divisions indicated above being fairly broad, the results set forth below are probably near the mark. Confusion is most liable to have occurred between Stages II. and III.

All dimensions are given in millimetres.

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
Jan. 18.	1 to 3 miles off Mewstone.	...	m.	<i>Clupea sprattus.</i>	mm. 1·00	mm.	I.	sev.	<i>Clupea harengus.</i>	mm.
		...	1	Motella, o.g. colourless.	.70	...				
		...	2 or 3	Motella, o.g. colourless.	.78-·80	...				
		...	2	<i>Pleuronectes platessa.</i>						
,, 27.	2 mls. S. of Break-water Fort.	...	...	C. sprattus.	...	...	...	1	Motella.	7·
		...	1	Motella, o.g. $\infty$	.66	...				
		...	...	Motella, o.g. colourless.						
,, 28.	Off Mewstone.	...	1 or 2	C. sprattus.			I.	I.	I.	
		...	1	Motella, o.g. yellow.	.75	...				
		...	4	Motella, o.g. cupreous.	.675	...				
		...	m.	Motella, o.g. colourless.	.75	...				
		...	2	<i>Gadus luscus.</i>	1·1	...				

													mm.
Jan. 29.	1 mile S.W. of Eddystone.	...	v.m.	C. sprattus.	'97-1·1	mm.	I., II., III.						
		...	3	Pl. platessa.	1·75-1·80	...							
		...	2	Pl. microcephalus.	1·3-1·5	...	II., III.						
		...	sev.	G. luscus.	'96	...	III.						
		...	6	Callionymus lyra.	'90	...	III.						
Feb. 1.	1 mile S. of Breakwater Fort.	...	m.	C. sprattus (mostly 1·00 mm.).	'95-1·05	...	...	1	Agonus cataphractus.	8·			
		...	3	G. luscus.	'97, 1·, 1·05								
		...	sev.	Motella, o.g. colourless.	'75 ('70-'78)	...	I.						
		...	3	Motella, o.g. colourless.	'75	...	II.						
		...	1	Motella, o.g. colourless.	'82	...	III.						
,, 4.	W. Channel, 1 mile from Breakwater.	Surface. Midwater. Bottom.	nil. 70-80 3	Motella, o.g. colourless. G. luscus.	(mean) '75 '93-'95	...	...	nil.	Centronotus gunnellus.	7·			
,, 5.	1 mile S. of E. end of Breakwater.	...	v.m.	C. sprattus.									
		...	m.	G. luscus.	'93 ('9-'99)	...	III.						
		...	4	Gadus pollachius.	1·4-1·45	...	III.						
		...	3	C. lyra.	'83	...							
		Surface. Bottom.	...	...	...	...	...	m.	C. harengus.				
		...	...	...	...	...	...	m.	C. harengus.				
,, 6.	$\frac{1}{2}$ mile S. of Breakwater Fort.	...	1	C. sprattus.	1·00								
		...	4	G. luscus.	'90, '95, '97, '97								
		...	2	Gadus sp.	1·19, 1·20								
		...	2	Motella, o.g. colourless.	'75								
		...	2	Motella, o.g. colourless.	'73								
,, 8.	Off Mewstone.	Bottom. Surface.	8	C. sprattus.	'98-1·30	...	I.	m.	C. harengus.				
		m.	C. sprattus.	...	...	...	I., III.	sev.	C. harengus.				
		...	2	Pl. platessa.	1·85, 1·93	...	III.						
		...	2	Pl. microcephalus.	1·40, 1·43	...	III.						
		...	2	G. pollachius (?).	1·23	...	II.						
		...	...	G. luscus.	'95-1·00	...	I., II., III.						
		...	v.m.	Motella, o.g. colourless.	'75	...	I., II., III.						

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
Feb. 9.	West Channel.	Surface.	f.	Motella, o.g. colourless?	mm.	mm.	...	f.	C. harengus.	mm.
		Midwater.	nil.	...	...	...	...		A. cataphractus.	7· 9·
		Bottom.	nil.	...	...	...	...		A. cataphractus.	6·5
,, 10.	West Channel.	...	nil.	...	...	...	...	2	A. cataphractus.	7· 9·
,, 11.	West Channel.	...	nil.	...	...	...	...	1	A. cataphractus.	6·5
,, 12.	$\frac{1}{2}$ mile S. W. of Yealm Head.	...	v.m.	Motella.	·70-·83					
		...		C. sprattus.	...					
		Bottom.		Gadus sp.	·95-1·00					
,, 15.	1 mile S. of Mewstone.	Surface.	600	Motella, o.g. colourless?	...	...	I.			
			1	Motella, o.g. $\infty$	·76	...	I.			
			20	C. sprattus.	...	...	I.			
			6	G. pollachius?	...					
			1	Topknot.	1·06					
		Bottom.	3	Motella.						
			3	C. sprattus.						
			1	G. pollachius.						
,, 19.	West Channel.	Surface.	50	Motella, o.g. colourless.	...	...	...	1	Cottus bubalis.	7·3
			1	C. sprattus.	...	...	...		Gobius minutus ?	3·4
			1	Gadus sp.						
		Bottom.	50	Motella.						
			2	C. sprattus.						
			5	Gadus sp.						
			1	Pl. microcephalus.	...	...	III.			
,, 23.	$\frac{1}{2}$ m. S. of Breakwater Fort. (2 hauls.)	Surface.	23	Motella, o.g. colourless?						
			18	C. sprattus.						

					mm.	mm.				mm.
Feb. 23.	$\frac{1}{2}$ mile S. of Break-water Fort. (2 hauls.)	Surface.	7	Gadus sp.						
			2	G. pollachius.	1·14, 1·15	...				
			1	C. lyra.						
		Bottom.	7	Motella, o.g. colourless?						
			2	C. sprattus.						
			7	Gadus sp.	.92					
			2	G. pollachius?	1·13, 1·22					
			1	C. lyra.						
,, 24.	3 miles S.W. of Breakwater Light. (2 hauls.)	Surface.	150 ca.	Motella, o.g. colourless?						
			1	C. sprattus.						
			1	Gadus sp.						
			1	Pl. microcephalus?	1·25					
			1	Topknot.	1·05					
		Bottom.	240	Motella, o.g. colourless?						
			3	C. sprattus.						
			9	Gadus sp.						
			1	G. pollachius?	1·26					
			1	Pl. microcephalus.	1·46					
			1	Pl. platessa.	1·85					
,, 25.	Plymouth Sound.		240 ca.	Motella, o.g. colourless?						
			1	Pl. microcephalus.	1·40					
,, 26.	$\frac{1}{2}$ mile S. of Break-water Fort.	Surface.	37	Motella, o.g. colourless?						
		Midwater.	60	Motella, o.g. colourless?						
			1	G. pollachius?						
			1	Topknot.	1·02	.19				
		Bottom.	17	Motella.						
			1	Gadus sp.						
Mar. 1.	$\frac{1}{2}$ mile S. of Break-water Light.	Surface.	120	Motella, o.g. colourless?						
		(2)	2	Motella, o.g. $\infty$						
			3	C. sprattus.						
			1	Topknot.	1·04	.21	II.			
			3	Topknot.	.99, 1·05, 1·08	{ .18, .17, .19 }	I.			
			7	Gadus sp.						

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
Mar. 1.	½ mile S. of Breakwater Light.	Surface. Bottom. ...	1	G. pollachius ?	mm. 1·2	mm. ...	I.			mm.
			20	Motella, o.g. colourless ?						
			1	C. sprattus.						
,, 30.	Off Mewstone.	...	54	C. sprattus.	.87-.96	...	I., II., III.	1	G. pollachius ?	3·93
			1	Motella, o.g. colourless ?	.80	.12				
			8	Pl. flesus.	.96-1·13	...	I., II.			
			1	Pleuronectes sp.	1·23	...	I.			
			1	Gadus merlangus.	1·21	...	II.			
			1	G. pollachius ?	1·19	...	II.			
			1	C. lyra.	.91	...	III.			
			1	Trigla gurnardus ?	1·53	.30	III.			
			2	Topknot.	.90-.91	.13	III.			
			3	Topknot.	1·04-1·07	.19-.21	III.			
April 5.	Cawsand Bay.	Surface.	1	G. merlangus.	1·20	...	II.			
			1	Not identified.	.954	...				
			1	C. lyra.						
			1	Topknot.	1·033	.173				
			5	Motella, o.g. colourless ?	.73-.87					
,, 8.	Off Mewstone.	...	Eggs not recorded.			...	...	1	Rhombus punctatus (periotic spines).	5·11
			...	...	...	...	...	sev.	Rh. punctatus ? (vitelligerous).	
			...	...	...	...	...	1	Solea vulgaris.	
			...	...	...	...	...	sev.	Unidentified.	
,, 22.	Jennycliff Bay. Plymouth Sound.	Surface. ...	2	Solea vulgaris.	...	...	III.	2	G. pollachius ?	7-
			1	C. lyra.	...	...	II.	3	Pl. flesus.	9·9-75
			...	...	...	...	...	2	C. sprattus.	9·10·

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Ap. 24.	Jenniciff Bay.	Surface.	...	Eggs not observed.	mm.	mm.	...	1	G. pollachius. Agonus cataphractus. Rh. punctatus (periotic spines).	mm. 10. 16·25 4·5 ca.
...	...	...	...	...	...	...	...	1		
...	...	...	...	...	...	...	...	1		
,, 27.	Outermost Buoy of West Channel.	Surface.	4+	Motella, o.g. colourless.	.75	.14	I.	3	G. pollachius ? Pl. platessa ?	11·14. 10·5-12·
...	...	...	4	Motella, o.g. yellow.	.69·81	.15-·17	I.	6		
...	...	...	8	<i>Ctenolabrus rupestris.</i>	.90-1·01	...	I.			
...	...	...	2	C. sprattus.	.96	...	I.			
...	...	15+	Topknot.	.98-1·04	.16-·18	I.				
...	...	1	Topknot.	1·02	.21	I.				
,, 29.	Jenniciff Bay.	Surface.	1	G. merlangus ?	1·15	...	I.			
...	...	m.		Motella, o.g. colourless.	...	...	I.	2	G. pollachius ?	6·5, 10·
...	...	5 ca.		Motella, o.g. yellow.	.69, .72	.15, .16	I., III.	5	C. sprattus	8·-18·
...	...	...		...	...	...	...	9	Pl. flesus.	9·-11·5
May 3.	W. Channel, outer Knap Buoy.	Surface.	1	C. sprattus.	.96	...	III.	3	G. pollachius.	4·75-9·5
...	...	...	2	<i>Gadus minutus</i> ?	.94, .96	...	I., III.			
...	...	...	2	C. lyra.	.88, .87	...				
...	...	6	Motella, o.g. yellow.	.70-·74	.15-·18	I.				
...	...	1	Motella, o.g. yellow.	.80	.15	I.				
,, 5.	1 mile S.S.W. of Breakwater Light.	Surface.	...	C. lyra.	...	...	...	1	G. pollachius ?	
...	...	...	1	G. merlangus.	1·2 ca.	...	...	6	G. pollachius.	5·-9·
...	...	...	...	...	...	...	...	1	Liparis.	4·25
...	...	...	...	...	...	...	..	1	C. lyra.	3·5
...	...	...	...	...	...	...	...	2	<i>Gobius minutus</i> ?	4·5, 6·5
,, 7.	Off Mewstone.	Surface.	1	C. lyra.	...	...	II.			
...	...	...	2	C. sprattus.	...	...				
...	...	...	4	Motella, o.g. yellow.	.67-·72	.16-·17	III.			
...	...	...	2	Motella, o.g. colourless.	.68, .70	.14	I.			
...	Bottom.	...		Eggs not recorded.	...	...				
...	Bottom.	...	2	Motella, o.g. yellow.	.72, .75	.15, .16	I.	5	<i>Gadus minutus</i> ?	5·-9·
...	...	...	1	Motella.	...	...	III.			
...	...	...	1	C. lyra.	.80	...	I.			

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
May 8.	1 mile N.E. of Eddystone.	Surface.	1	<i>C. lyra.</i>	.85	...	II.	10	<i>G. pollachius.</i>	mm. 7·-20·75
			3	<i>C. rupestris.</i>	.90·-92	...	I.	1	<i>Motella.</i>	6·
		Bottom.	...	...	...	...	...	1	<i>Motella.</i>	18·
			...	...	...	...	...	1	<i>Aphia.</i>	
			...	Eggs, if present, not examined.	...	...	...	9	<i>Gadus minutus?</i>	5·-6·5
			...	...	...	...	...	1	<i>Motella.</i>	5·
			...	...	...	...	...	1	<i>Motelloid?</i> (very long pelvies).	6·5
			...	...	...	...	...	3	<i>Pl. limanda.</i>	9·
			...	...	...	...	...	1	<i>C. lyra.</i>	3·5
			...	...	...	...	...	2	<i>Belone vulgaris.</i>	10·, 14·
,, 13.	Inner part of Whit-sand Bay.	Surface.	sev.	<i>C. lyra.</i>	...	...	...	2	<i>Topknot</i> (no cephalic spines).	3·, 5·, 8·
			1	<i>G. merlangus.</i>	1·27	...	...	2	<i>Pl. microcephalus.</i>	6·5, 10·25
		Bottom.	...	...	...	...	...	2	<i>Solea vulgaris.</i>	7·5, 8·
			...	...	...	...	...	1	<i>G. pollachius.</i>	10·
			...	...	...	...	...	2	<i>G. pollachius.</i>	8·, 10·
,, 15.	Tamar River above Saltash.	Bottom.	nil.	<i>C. lyra.</i>	...	...	...	9	<i>Pl. limanda.</i>	11·-19·
				<i>G. merlangus.</i>	...	...	...	1	<i>Liparis.</i>	9·
				...	...	...	...	2	<i>G. pollachius.</i>	11·, 14·5
				...	...	...	...	1	<i>Pl. limanda.</i>	14·
				...	...	...	...	1	<i>Mugil chelo.</i>	11·5
,, 17.	Yealm Zostera Bed.	Bottom.	...	...	...	...	...	4	<i>C. harengus.</i>	20·-30·
				...	...	...	...	2	<i>Gobius minutus.</i>	15·, 15·5
				...	...	...	...	1	<i>G. pollachius.</i>	23·5
				...	...	...	...	1	<i>Pl. limanda.</i>	14·
				...	...	...	...	1	<i>M. chelo.</i>	11·5

						mm.	mm.			mm.
May 18.	Tamar River, below Saltash.	Bottom.	...	...	...	...	...	...	5	Gobius minutus ?
		...	...	...	...	...	...	...	1	M. chelo.
		...	...	...	...	...	...	...	2	C. harengus.
,, 19.	Cawsand Bay.	Bottom.	...	...	...	...	...	...	1	Gadus minutus.
	...	...	...	...	...	...	...	...	30+	G. pollachius.
	Jennicliff Bay.	Bottom.	...	...	...	...	...	...	2	Gadus minutus.
,, 20.	1½ mile S. by E. of Mewstone.	Midwater.	nil.	...	...	...	...	I.	nil.	G. pollachius.
		Surface.	4	C. rupestris.	...	...	...	...	1	24·
		...	...	...	...	...	...	...	2	G. pollachius.
,, 21.	Jennicliff Bay.	Surface.	3	C. rupestris.	87	...	...	I.	4	Gadus minutus ?
		...	2	Motella, o.g. yellow.	...	...	...	...	4	Motella.
		...	...	...	...	...	...	...	1	Motella.
		...	...	...	...	...	...	...	1	Ammodytes sp.
		Bottom.	...	...	...	...	...	...	5	G. pollachius.
		...	...	...	...	...	...	...	3	Pl. limanda.
,, 22.	Jennicliff Bay.	Surface.	...	...	...	...	...	...	1	C. lyra.
		...	...	...	...	...	...	...	2	Gadus minutus ?
		Bottom.	...	...	...	...	...	...	1	Gobius minutus ?
		...	...	...	...	...	...	...	7	Aphia pellucida.
,, 25.	400 yards off the Start.	Surface.	1	Motella, o.g. yellow.	...	...	...	I.	1	Solea vulgaris.
	Start Bay, 150 yds. off Slapton Sands.	Bottom.	...	...	...	...	...	...	1	Gadus minutus ?
	Start Bay, 100 yds. off Slapton Sands.	Bottom.	...	...	...	...	...	...	2	Gadus luscus.
	Start Bay, off N. end of Slapton Sands.	Bottom.	...	...	...	...	...	...	21	Gadus minutus.
		...	...	...	...	...	...	...	10	Gadus minutus.
,, 26.	Start Bay, trawling ground.	Surface.	1	<i>Solea lutea.</i>	...	...	...	...	1	Solea vulgaris.
	Start Bay, Blackpool.	Bottom.	...	...	...	...	...	...	...	Pl. limanda.
	...	...	...	...	...	...	...	1	17·75	
		...	...	...	...	...	...	2	10·	
		...	...	...	...	...	...	17	Pl. limanda.	
		...	...	...	...	...	...	1	14·5-18·*	
										11·5

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\* Including several from 25th.

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
May 27.	Start Bay, trawling ground.	Surface.	5 ca.	C. rupestris.	mm.	mm.	I.			mm.
			m.	S. lutea.	...	...				
		...	1	C. aper?	.98	.17				
		...	1	Motella, o.g. colourless.	...	...				
		Bottom.	1	Motella, o.g. yellow.	...	...				
	Start Bay, outer ground.	Bottom.	...	...	...	...	...	1	C. lyra.	10·
			...	...	...	...	...	1	S. vulgaris.	10·5
			...	...	...	...	...	2	Pl. limanda.	17·5, 18·
			...	...	...	...	...	1	Gobius sp.?	8· ca.
			...	...	...	...	...	1	Gadus minutus.	12· ca
June 1.	Teignmouth Bay, trawling ground.	Surface.	3	C. lyra.	.84, .87	...	2 II., III.			
			1	C. sprattus.	...	...	I.			
		...	1	T. viperæ.	1·16	...	I.			
		...	4	S. lutea.	...	...	III.			
		...	1	<i>Arnoglossus laterna</i> ?	.66	.14	I.			
	Bottom.	...	...	...	...	...	...	1	G. luscus.	20·5
,, 2.			...	...	...	...	...	5	Gobius minutus.	10·-19·
,, 3.	Off Paignton Ness. Torbay, trawling ground.	Bottom.	...	Motella.	...	...	...			
		Surface.	1	Other eggs, not identified	...	...				
		...	...	...	...	...				
	Start Bay, trawling ground.	Surface.	1	<i>Trachinus viperæ</i> .	...	...	I.			
		...	7	S. lutea.	...	...				
		...	1	Motella.	...	...				
Start Bay, off Street Road.	Bottom.	Bottom.	1	C. rupestris?	.87	...	I.			
			...	...	...	...	...	1	Gadus?	
			...	...	...	...	...	1	Gobius sp.	10· ca.
	1 mile off the Start.	Surface.	nil.	...	...	...	...	1	Gadus minutus?	10
		...	...	...	...	...	...	5	Motella tricirrata.	13·-18·
		...	...	...	...	...	...	1	Motella tricirrata.	31·

					mm.	mm.			mm.
June 4.	4-5 miles S. of Mewstone.	Surface.	6	<i>Clupea pilchardus.</i>	{(yolk) '96 (one) 2·38}	'16	I.		
		...	7	<i>Capros aper.</i>	'96-1·01	'14-16	I.		
		...	1	<i>Capros aper?</i>	1·04	'20	I.		
		...	4	<i>C. rupestris.</i>	...	...	I.		
		...	1	<i>Trigla pini?</i> (rugose zona).	1·49	'28	I.		
		...	2	<i>Arnoglossus laterna.</i>	...	...	III.		
,, 8.	Off Rame Head.	Surface.	...	...	...	...		1	Motella.
	...	...	...	...	...	...		2	<i>G. pollachius.</i>
	Jennicliif Bay	Surface.	...	...	...	...		2	<i>G. pollachius.</i>
	Inner part of Whit-sand Bay.	Surface.	2	Motella, o.g. yellow.	...	...	I.		
		...	3	<i>C. rupestris.</i>	...	...	I.		
		Bottom.	...	...	...	...		1	<i>P. limanda.</i>
,, 9.	Cawsand Bay.	Surface.	1	Motella.	...	...	III.		
	...	...	1	Motella, o.g. yellow.	...	...	I.		
	...	...	14	<i>C. rupestris.</i>	(one) .87	...			
		Bottom.	...	...	...	...		3	<i>P. limanda.</i>
	...	...	...	...	...	...		m.	<i>G. pollachius.</i>
	...	...	...	...	...	...		1	<i>Agonus cataphractus.</i>
	...	...	...	...	...	...		m.	<i>Gobius minutus.</i>
,, 10.	2½ miles S. of Mew-stone.	Surface.	1	<i>C. rupestris.</i>	...	...	II.		
		Bottom.	...	...	...	...		1	<i>Phrynorhombus?</i>
,, 11.	1 mile S. of Mew-stone.	Surface ?	sev.	Not identified.	...	...		20-30	Motella.
		...	...	...	...	...		1	<i>G. pollachius.</i>
,, 12.	Jennicliif Bay. Off Mewstone.	Surface.	...	<i>C. aper?</i>	...	...		1	<i>C. sprattus.</i>
		Surface.	1	<i>C. rupestris.</i>	.90	'18	I.		
		...	4						
		Bottom.	nil.						
,, 14.	Drake's Island, pools.	Surface.	...	...	...	...		1	<i>P. limanda.</i>
	1 m. off Breakwater.	Surface.	5+	Motella, o.g. yellow.	...	...	III.	2	<i>Rhombus maximus.</i>

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
June 14.	1 m. off Breakwater.	Surface.	8+	<i>C. rupestris.</i>	mm. (two) .84	mm.				mm.
,, 15.	1 mile S. of Mew-stone.	Surface. Midwater.	2 2	<i>C. rupestris.</i> <i>C. rupestris.</i>	... ...	... ...	I., III. I., III.			
,, 16.	Cawsand Bay.	Surface.	nil.	...	...	...	...	2	<i>Rhombus maximus.</i>	15·, 22·
,, 17.	200 yds. S. of Drake's Island, ebb.	Surface.	1	<i>C. rupestris.</i>	...	...	...	1	<i>C. sprattus.</i>	16·
	...	...	...	...	...	...	...	m.	<i>C. sprattus.</i>	21·-26·5
	...	...	...	...	...	...	...	4	<i>C. sprattus.</i>	31
	...	...	...	...	...	...	...	15	<i>Gadus minutus?</i>	10·-15·
								1	<i>G. pollachius.</i>	23·
,, 19.	Hamoaze.	Surface.	...	...	...	...	...	1	<i>Motella mustela.</i>	27·
,, 23.	1 mile S. of Mew-stone, early ebb.	Surface.	1	Unidentified (asperous zona).	1·06	...	I.			
	...	...	1	<i>T. viperæ.</i>	...	...	III.			
	...	...	6	<i>C. rupestris.</i>	...	...	I., II., III.			
	...	...	...	<i>Motella, o.g. yellow.</i>						
	...	Bottom.	12	<i>C. rupestris.</i>						
	...	...	1	<i>Motella, o.g. yellow.</i>						
,, 25.	2 miles N.E. $\frac{1}{2}$ E. of Eddystone.	Surface.	17	<i>C. aper.</i>	.97-.99	.15-.16	I., II.			
	...	...		No record of other species						
,, 26.	Outer Knap Buoy.	Surface.	...	...	...	...	...	1	<i>Motella?</i>	4·5
,, 28.	$\frac{1}{4}$ mile S. by E. of Mewstone Buoy. $\frac{1}{2}$ to $\frac{1}{2}$ mile off Breakwater.	Surface.	20 ca.	<i>C. rupestris.</i> 2 4 1	...	...	I., II., III. III.			
		Surface.		<i>Motella, o.g. yellow.</i> <i>C. rupestris.</i> <i>C. rupestris?</i>	...	...				
						.67	I.			

June 28.	$\frac{1}{2}$ to $\frac{1}{2}$ mile off Breakwater.	$\frac{1}{2}$ to 1 fath. down.	12	C. rupestris. ... ... ...	mm. ... ... ...	mm. ... ... ...	I., II., III. I., II.		mm.
" 29.	2 miles off Fowey River.	Surface. Bottom.	nil. m.	C. rupestris. ... Motella, o.g. yellow. T. viperæ.	(one) '84	... ... '99 ...	... ... '15 ...	... 2 1 1 4	Ammodytes sp. Motella. Gobius sp. C. aper ?
" 30.	2 miles off Fowey River.	1 fathom down.	nil.	T. pini ? Unidentified Gadoid (?). ?..... A. laterna. C. rupestris. Motella, o.g. yellow.	1·43 '86-'91 '96 '66 ... ...	'23 '16 '17 '13 ... ...	I. II. II. III. ... 9	Ammodytes sp. C. aper ?	6·5, 7·5 9·5 4· 4·5-6·
July 6.	2 miles S.W. by S. of Mewstone.	Surface. Bottom.	nil. 4	C. aper.	'93-'99	'16-'17	I., II.		9·5 ca. 4·-6·5
" 7.	Gerrans Bay.		1	C. rupestris.					
			4	Motella, o.g. yellow. Other eggs not recorded.					
" 20.	4 miles off Mewstone.	Midwater.	2	Unidentified Gadoid (?).					
			2	C. rupestris.					
" 23.	2 to 3 miles S. of Breakwater.	Surface.	2	Coris-like Labroid.	'78-'80	'14	I.		
			1	C. aper.	'96	'16			
			4	C. rupestris.	'78-'82				
			1	Motella, o.g. yellow.					
		4 fathoms down.	1	Unidentified Gadoid (?).	'84	'16	III.		
			1	Caranx trachurus.	'91	'22	II.		
			1	A. laterna.	'63	'12	II.		

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
July 23.	2 to 3 miles S. of Breakwater.	4 fathoms down.	1	C. rupestris.	mm. .81	mm. ...	III.			mm.
			1	Motella o.g. yellow.						
,, 26.	Jenniciff Bay.	Bottom.	...	...	...	...	...	1	Trigla gurnardus.	38· ca.
	...	...	...	...	...	...	...	1	Trigla hirundo.	30· ca.
,, 27.	Between Eddystone and Hand deeps.	Surface.	v.m.	C. aper.	...	...	I., II., III.			
	...		2	C. trachurus.	.81-.93	.22-.23	II.			
	...		2	<i>Arnoglossus Grohmanni.</i>	.72, .74	.12, .12	II.			
	...		1	<i>Trigla hirundo?</i>	1·35	.28	II.			
	...		1	Coris-like Labroid.	.82	.14				
	...	Midwater.	...	Eggs less plentiful than at surface, but more plentiful than at bottom.						
	...	Bottom.	3	C. aper.	.93-.97	.15-.17	I.			
	...		1	<i>Solea variegata.</i>	1·16	.03-11	II.			
	...		1	C. rupestris.						
	...		1	Motella, o.g. colourless.						
,, 29.	2 miles S. W. of Mewstone.	Surface.	1	C. aper.	.93	.15	I.			
	...		2	Coris-like labroid.	.81	.13	III.			
	...		17	C. rupestris,	...	...	III.			
	...		5	Motella, o.g. yellow.	...	...	I., III.			
	...		8	A. laterna.	...	...	III.			
	...		1	A. Grohmanni.	...	...	III.			
	4 miles S. by W. of Mewstone.	Surface to midwater.	1	C. trachurus.	...	...	III.			
	...		6	C. aper.	...	...	III.			
	...		1	C. rupestris.	...	...	III.			
	...		1	Motella, o.g. yellow.	...	...	III.			
	...	Midwater to bottom.	2	C. aper?	.96	.14	I.			

						mm.	mm.				mm.
July 30.	Off Mewstone.	Surface.	...	Eggs rather abundant, not examined.							
,, 31.	4 miles S.W. by S. of Mewstone.	Surface.	12	C. aper.	...	...	III.				
		...	2	C. pilchardus.	...	...	III.				
Aug. 3.	3 to 4 miles W.S.W. of Rame Head.	Surface.	17	C. aper.	...	...	I.				
		...	1	Arnoglossus sp.	...	...	I.				
		...	1	Coris-like labroid.	.78	.15					
,, 4.	Bigbury Bay.	Surface.	...	Few eggs, not identified.	...	...	...	2	Blennius pholis.	19·5, 20·	
		...	...	...	...	...	...	1	Trachinus vipera.	13·	
,, 6.	Jennycliff Bay.	Surface.	...	...	...	...	...	1	Caranx trachurus.	11·5	
		...	...	...	...	...	...	m.	C. sprattus (pilchardus?)	21·27·5	
,, 19.	Cawsand Bay.	Surface.	nil.								
		...	nil.								
,, 23.	4 miles off Break- water.	Surface.	nil.								
		Midwater.	nil.								
		Bottom.	nil.								
,, 24.	Cawsand Bay.	Surface.	nil.								
		Midwater.	nil.								
,, 25.	1 mile S.W. of Breakwater Fort.	Surface.	1	C. aper.	.91	.15	II.				
		...	1	Unidentified Gadoid (?)	.80	.16	II.				
		...	8	Motella, o.g. yellow.	.65-.68	.12-.17	Var.				
		...	1	Unidentified Gadoid (?)	.78	.15					
		Bottom.	2	Motella, o.g. yellow.	...	...	I.				
,, 27.	1 mile off Break- water Light.	Surface.	1	C. aper.	.93	.15	II.				
		...	1	Unidentified Gadoid (?)	.84						
		...	1	C. rupestris.	.72	...	I.				
		...	5	Motella, o.g. yellow.							
		Midwater.	nil.								
		Bottom.	1	Motella, o.g. yellow.							

Date.	Locality.	Position of Net.	EGGS.					LARVÆ.		
			No.	Species.	Diam. of Egg.	Diam. of oil globule.	Stage of Development.	No.	Species.	Length.
Aug. 28.	Cawsand Bay.	Surface.	1	Unidentified Gadoid (?)	mm. .83	mm. .17	III.			mm.
" 30.	200 yards inside Breakwater. Jennicliff Bay.	Midwater. Bottom. Surface. 1 fathom down.	3 1 nil. 2	Motella, o.g. yellow. Motella, o.g. yellow. ... Motella, o.g. yellow.						
Sept. 1.	Inside Breakwater.	Bottom.	nil.							
" 3.	Cawsand Bay. ...	Bottom, Bottom ?	nil. ...		...	...	...	4	Lepadogaster bimaculatus.	3'-4'5
	1 mile off Breakwater.	Bottom.	...		...	...	...	1	Lepadogaster bimaculatus.	7.5
" 6.	Cawsand Bay.	Bottom.	nil.							
" 7.	4 miles off Breakwater.	Surface, Midwater. Bottom.	nil. nil. nil.							
" 8.	2-3 miles S.W. of Mewstone. Plymouth Sound.	Surface. Midwater. ...	nil. nil. 1	Motella, o.g. yellow.						
" 10.	3 miles N.E. to N. of Eddystone.	Surface.	nil.							
" 13.	Off Mewstone.	...	nil.							
" 14.	½ mile off Penlee.	Bottom.	1	Motella, o.g. yellow.						

					Motella.	mm.	mm.				mm.
NEW SERIES—VOL. V, NO. 2.	Sept. 14.	Cawsand Bay.	Surface.	1							
	, 16.	Cawsand Bay.	Bottom.	...	...	...	...	...	...	1	Lepadogaster bimaculatus.
	, 21.	Plymouth Sound.	...	...	...	...	...	...	...		Early larva, sp. ?
Oct.		No records of tow-nets.	...	...							
Nov.		No records of tow-nets.	...	...							
Dec.	2.	2 miles S. of Mew-stone.	Bottom.	nil.							
	, 3.	Whitsand Bay. ...	Surface. Bottom.	nil. nil.							
	, 11.	Off Breakwater.	...	nil.							
	, 14.	West Channel. ...	Surface. Bottom.	nil. nil.							
	, 20.	Between Mewstone and Shagstone. ...	2 fathoms down. Bottom.	nil. nil.							
	, 21.	Between Mewstone and Shagstone.	Midwater.	nil.							
	, 22.	$\frac{1}{4}$ mile off Break-water.	Bottom.	nil.							