

VII.—ON THE DATES OF THE “PALÉONTOLOGIE FRANÇAISE” OF D’ORBIGNY.

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THE first six volumes of Cretaceous Fossils and the first two volumes of Jurassic Fossils, described in this work, were issued without exact dates, and consequently have caused much confusion in nomenclature.

Information has been obtained from many sources, but that from the *Neues Jahrbuch* seems on the whole more continuously exact.

CRETACEOUS SERIES.

VOL. I.—CEPHALOPODA.

Livr. 1-3,	1840 (N.J., 1840, p. 690).	One sheet to each livr.
3[4]-21,	1841 (N.J., 1841, p. 463).	
12[22]-17[27],	1841 (N.J., 1842, p. 104).	
28-32,	1841 (N.J., 1842, p. 235).	
33-42, pp. 431-662,	1842 (N.J., 1842, p. 455).	

The above is the evidence from the *Neues Jahrbuch* as regards vol. i, but it is evidently so carelessly recorded, markedly so in comparison with the later records, that one must take further evidence. We find that the Geological Society of London received as a present from the author livraisons 1-20, and of these livraisons 9 and 10 were received on January 4, 1841. It will be quite safe, therefore, to regard livrs. 1-10 as belonging to 1840. Now the *Neues Jahrbuch* says that each of the three first parts contained one sheet, and an examination of the volume shows that on this assumption livrs. 1-10 would contain 120 pp. (for the sheets are in 4's and 8's). The *Neues Jahrbuch* is very clear as to the pages contained in livrs. 33-42, and as this is the beginning of their careful record, one may accept the statement as accurate, and we are left with pp. 121-430 for the year 1841. My friend Mr. G. C. Crick, who has examined this volume with me, agrees in determining the date of vol. i, Cretaceous Cephalopoda, as—

pp. 1-120,	1840.
121-430,	1841.
431-662,	1842.

Supplément, 1847 (see below, vol. iii).

The further volumes present no difficulties, and there appears no reason to doubt the record furnished by the *Neues Jahrbuch*.

VOL. II.—GASTEROPODA.

Livr. 43-48	pp. 1-80	1842	...	(N.J., 1842, p. 843)
49-60	81-288	1843	...	1843 602
61-70	289-456	1843	...	1844 60

VOL. III.—PELECYPODA.

Livr. 71-76	pp. 1-96	1844	...	(N.J., 1844, p. 461)
77-90	97-288	1844	...	1845 195
91-102	289-448	1845	...	1845 809
103-106	449-480	1846	...	1846 479
107-111	481-520	1846	...	1847 198
112-116	521-576	1847	...	1847 467
117-126	577-688	and Supplément to vol. i (Céph.), consisting of livr. 1 and 2, pp. 1-28, pls. ii-ix:		
		1847	...	(N.J., 1847, p. 827)

Livr. 127-136		pp. 689-807				
VOL. IV.—BRACHIOPODA.			1848	...	(N.J., 1848, p. 560)	
		1-16				
	137, 138	17-32	1848	...	1849	81
	139-144	33-104	1849	...	1850	52
	145-152	105-200	1850	...	1850	436
	153-110 [160]	201-328	1850	...	1851	186
	161-164	329-390	1851	...	1851	437
VOL. V.—BRYOZOA.						
Livr. 165, 166		pp. 1-28	1851	...	(N.J., 1851, p. 580)	
	165-168	1-60	1851	...	1851	683
	169-176	61-188	1851	...	1852	61
	177-182	189-265	1852	...	1852	308
	183-188	266-376	1852	...	1852	606
	189-194	377-472	1852	...	1852	945
	195-202	473-600	1853	...	1853	448
	203-208	601-792	1853	...	1853	820
	209-214	793-984	1852 [3]	...	1854	328
	215-218	985-1192	1854	...	1854	432
VOL. VI.—ECHINOIDEA.						
Livr. 209 [219]-226		pp. 1-128	1854	...	(N.J., 1855, p. 55)	
	227-238	129-256	1855	...	1855	683
	239, 240	257-272	1855	...	1856	30
	241-248	273-328	1856	...	1856	677
	249, 250	329-352	1856	...	1857	156
	251-254	353-384	1857	...	1857	318
	255, 256	385-400	1858	...	1858	208
	[?]	401-432	[1858]			
	[?]	433-550	[1860]			

With p. 433 of this volume d'Orbigny's work finished; p. 434 begins with the following note:—

"Ici se termine le texte imprimé avant la mort de d'Orbigny. Ne voulant pas laisser ce volume inachevé, nous avons remis à M. Cotteau, qui à bien voulu se charger de les co-ordonner, les notes manuscrites laissées par l'auteur." (Note de l'éditeur, Août, 1859.)

As new species of Cotteau appear dated 1859 on pp. 495 and 548, pp. 433-550 would appear to date as 1860.

#### JURASSIC SERIES.

VOL. I.—CEPHALOPODA.						
Livr. 1-5		pp. 1-80	1842	...	(N.J., 1842, p. 843)	
	6-11	81-144	1843	...	1843	602
	12-16	145-192	1843	...	1844	60
	17-19	193-224	1844	...	1844	461
	20-27	225-312	1844	...	1845	195
	28-33	313-368	1845	...	1845	809
	34, 35	369-392	1846	...	1846	479
	36-40	393-432	1846	...	1847	198
	41	(plates only)	...	...	1847	467
	42-45	433-464	1847	...	1847	827
	46-50	465-496	1848	...	1848	560
	51	497-504	1848	...	1849	81
	52-54	505-520	1849	...	1850	52
	55-58	521-568	1850	...	1850	436
	59-62	569-632	1850	...	1851	186
	63, 64	633-642				
VOL. II.—GASTEROPODA.			1851	...	1851	437
		1-16				
	65	17-32	1851	...	1851	580

Livr. 65, 66	pp. 33-48	1851	...	(N.J., 1851, p. 683)
67-70	49-112	1851	...	1852 61
71-73	113-152	1852	...	1852 308
74-76	153-192	1852	...	1852 606
77-79	193-232	1852	...	1852 945
80-83	233-288	1853	...	1853 448
84-86	289-336	1853	...	1853 820
87-89	337-384	1852 [3]	...	1854 329
90	385-392	1854	...	1854 432
91-94	393-424	1854	...	1855 55
95-100	425-472	1855	...	1855 683
101	473-480	1855	...	1856 30
102-105	481-512	1856	...	1856 677
106	513-520	1856	...	1857 156
106 [7], 108	521-536	1857	...	1857 318
[?]	537-end	[1860]		

With p. 536 of this volume D'Orbigny's work finished; precisely the same editorial note is given on p. 537 as has been quoted under vol. vi of the Cretaceous Series, with the exception of the date, which is "Octobre" instead of "Août." Pages 537 to the end of this volume may therefore be regarded as dated 1860.

Started afresh in 1861, the Committee of Publication for the "Paléontologie Française" has followed the excellent practice of printing an official statement of the dates of publication in each volume. These present notes will, I trust, help to clear away many difficulties in zoological nomenclature.

#### NOTICES OF MEMOIRS.

THE DRIFT OR GLACIAL DEPOSITS OF AYRSHIRE. By JOHN SMITH. (Reprinted from the Transactions of the Geological Society of Glasgow, vol. xi, Supplement.) 8vo; pp. 134, with Index. (Glasgow, 1898.)

THAT this is an age of detail is well exemplified in the present memoir. The author records particulars of numerous sections of glacial drift in various parts of Ayrshire, and illustrates his observations by means of a sketch-map and fifty-two diagrams. The Geological Survey in Scotland has been singularly behindhand in publishing Drift Maps of the country, for, with the exception of some few six-inch maps where the Glacial gravels and Boulder-clay are represented by a vague kind of stippling, no representations of these Drifts have as yet been published. This is much to be regretted considering the scientific interest as well as the practical value attached to such maps; and the map now published by Mr. Smith fails to give any adequate idea of the distribution of the Drift. The author's observations lead him to conclude that the Ayrshire drift-beds comprise about eight divisions. In some sections he finds four Boulder-clays, and in all he notes the presence of marine fossils. Before beginning his critical examination he believed that the various Boulder-clays were 'ground-moraines'; eventually he came to the conclusion that they were deposited in water. That some of his Boulder-clays, such as he describes as pebbly clays, may have been deposited in water, is not likely to be questioned. In other