

The holy grail of Louis Charles Kiener's "Spécies général des coquilles vivantes"

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ABSTRACT

A complete collation of the first 137 livraisons of Kiener's "Spécies général des coquilles vivantes" is given. This makes it possible to date all the species described by Kiener. The wrappers show that Kiener's work had three different subsequent titles, and three publishers, namely Duménil, and Rousseau subsequently, and J. B. Baillièrè throughout.

Key words.-

Mollusca, Gastropoda, Bivalvia, Louis Charles Kiener, taxonomy, nomenclature.

INTRODUCTION

The first half of the 19th century saw the emergence of several series of monographs on molluscs published in issues over long periods of time. Many new names were validly introduced in such serial works of which Kiener's "Spécies générales et iconographie des coquilles vivantes" - started in 1834 - is one of the most important, being one of the earliest, and rich in new nominal species.

Unfortunately, Kiener's work is nowhere dated and all dating, essential for naming zoological species correctly, depends on external sources. Extra problematical is that Kiener's work was published in livraisons often containing text sections that had nothing to do with the accompanying plates, and that the plates were issued in a rather random order. Yet another complication is that in the earliest livraisons (up to Tonne, in livraison 13) the plates bear the French vernacular name(s) only. If a new species was introduced there, then it dates from the text part, but because the plates usually preceded the texts this is the other way round when the Latin names were printed on the plates (this practice started with Pourpre, also in livraison 13).

Sherborn & Woodward (1901) were the first to attack the Kiener dating problems and were rather successful, in particular in dating the livraisons [Like Sherborn and Woodward I retain the French word, as "issues", "gatherings", and "parts" may be confusing], but they had only second hand information about the contents of each livraison. Generally this information appeared to be very sketchy at best because the compilers usually reported upon several livraisons collectively, mentioning little

beyond some general and often incomplete remarks about the groups included.

Winckworth (1935) and Cernohorsky (1968) provided some additional information but were also unaware of the exact contents of the livraisons. Thus while there is a rather firm knowledge about the dates of the livraisons, the dating of the species described in the livraisons is often fuzzy. For several sections, Sherborn and Woodward had to remark: "Contents not ascertained". The present work will fill the voids as it is based on the "holy grail" of the "Spécies générales": a set of livraisons as originally published.

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MATERIAL AND METHODS

Recently, a near complete set of Kiener's "Spécies générales" landed on my desk which consists of the livraisons in their original wrappers and with all the text, plates and additional printed ephemera in place as originally published, with one possible exception. Again, not a single livraison was dated, but nevertheless this set is quintessential in establishing many facts not known to Sherborn & Woodward (1901), Winckworth (1935), and Cernohorsky (1968, 1970), and correcting some others.

The set is also remarkable for the presence of plates that have subsequently been suppressed or replaced. Also present are several plates that later received a different printed number.

The possible exception to absolute originality, mentioned above is that one plate might have been inserted in a wrong livraison although even this is far from certain: this will be explained below. In any event, the set seems to have remained totally unaltered for well over 150 years. This is remarkable indeed.

RESULTS

Several new facts have come to light. The most important are the following:

1. The work was originally differently titled twice before the now generally accepted title which is found printed on the title pages.
2. Of the first 18 livraisons there are two editions. The first published by P. Duménil and J. B. Baillièrè, with the plates stated to be made by Duménil (up to livraison 18) or left blank to this respect; the second by Rousseau and Baillièrè with many of the plates stating to be published by J. B. Baillièrè. There is no quality difference between the two, but evidently all the "Baillièrè" plates from before livraison 19 (1836) were issued at a later date. However, Baillièrè did not replace all plates at once; "old" plates, including plates that were replaced because the originals contained errors or lacked quality remained being sold until the stock was exhausted. Therefore among the extant sets of the "Coquilles vivants" many different combinations of "old" and "new" plates can be found.
3. Each livraison was supposed to contain six plates and a variable amount of text (Kiener, 1834: Livraison 1, rear wrapper recto). On one occasion, the publisher specifically acknowledged a deviant number of plates but from livraison 87 onwards the number of plates became more irregular, with nearly always alternating five or seven plates, this without further notice. Two livraisons contained no text at all.
4. Now, each species described by Kiener can be dated to the year it was published (or even more accurate) and in cases of homonymy or synonymy priority can be established for all.

Sherborn & Woodward (1901) mainly relied on the records published by the French Academy des Sciences, and by Troschel (in Wiegmann's Archiv für Naturgeschichte). The present data are nearly all in full accordance with what is known from these two sources, although it can be observed that Troschel (vide Sherborn & Woodward, 1901) had a tendency to ignore the minor sections of the livraisons.

A few corrections and additions to Sherborn and Woodward's paper were provided by Winckworth (1935), and by Cernohorsky (1968). The first noted that Kiener "issued fifty plates of *Trochus* in 1849-1850". The plates mentioned by Winckworth are the same as in this set, be it that he included *Turbo pica* Linnaeus, 1758, as plate 1, and noted that the second plate 8 (listed as "8bis") later became plate 28.

DESCRIPTION OF THE SET

The following list of the first 138 livraisons (all are present except number 117; all are complete except for the lack of one plate in the genus *Casque*), gives the number, year of publication, text pages and plates for each livraison as well as the occurrence, whenever present, of additional author's or publisher's notes, often printed on small sheets and of a quite ephemeral character. Dates of publication are after Sherborn & Woodward (1901) with a few noted exceptions. Up to 1839 Sherborn & Woodward (1901) give exact dates, after the "Comptes rendus" of the French academy of sciences. From livraison 35 onwards only the years were given, some by inference only (here in square brackets). The contents of the missing livraison 117 are by inference as is the livraison for the single missing *Cassis* plate.

Regarding the condition of the set: there are a few pages with offsetting from facing text pages, despite tissue guards being in place, a few plates and text pages are foxed, there is some light worming in four subsequent livraisons, mostly in the inner margin. One wrapper and one text leaf are singed at the bottom margin. Well over 90% of the plates, text pages and wrappers, however, are in an excellent, clean condition. There are no marks, written, or stamped in the text or on the plates.

Table 1. Livraison (Lvr.) numbers, year of publication (months and days after Sherborn & Woodward, 1901, and Cernohorsky, 1968), text pages and plates included (number of plates between parentheses).

Lvr.	Date	Text	Plates
1 ¹	1834(1.III)	Marginelle [1]-[30]	Marginelles 1-6 (6)
2	1834(2.V)	Thracie [1]-7; Tornatelle [1]-6	Marginelles 7-9; Tornatelles 1; Thracies 1-2 (6)
3	1834(2.V)	Buccin [1]-16	Buccins 1-6 (6)
4	1834(22.XII)	Buccin 17-32	Buccins 7-12 (6)
5	1834(22.XII)	Buccin 33-48	Buccins 13-18 (6)
6	1834	Buccin 49-64	Buccins 19-24 (6)
7	1835	Buccin 65-108	Buccins 25-29; Harpes 1 (6)
8	1835	Harpe [1]-12	Harpes 2-6; Pyramidelles 1 (6)
9	1835(18.V)	Pyramidelle [1]-8	Pyramidelles 2; Eburnes 1-3; Casques 1-2 (6)
10	1835(15.VI)	Eburne [1]-8	Casques 3-8 (6)
11 ²	1835(17.VIII)	Casque [1]-16	Casques 9-11, [12?], 13-14 (probably 6)
12	1835(26.X)	Casque 17-40	Casques 15-16; Cassidaires 1-2; Tonnes 1-2(6)
13	1835(21.XII)	Cassidaire [1]-10	Tonnes 3-5; Pourpres 1-3 (6)
14	1836(8.II)	Tonne [1]-16	Pourpres 4-9 (6)
15	1836(21.III)	Pourpre [1]-16	Pourpres 10-15 (6)
16	1836(2.V)	Pourpre 17-32	Pourpres 16-21 (6)
17 ³	[1836]	Pourpre 33-48	Pourpres 22-27 (6)
18	1836(5.XII)	Pourpre 49-64	Pourpres 28-33 (6)
19	1836(19.XII)	Pourpre 65-80	Pourpres 34-39 (6)
20	1837(20.II)	Pourpre 81-96	Pourpres 40-45 (6)
21 ⁴	1837(20.III)	Pourpre 97-112	Pourpres 46; Vis 1-5 (6)
22	1837(8.V)	Pourpre 113-128	Vis 6-11 (6)
23	1837(28.VIII)	Pourpre 129-144	Vis 12-14; Struthiolaire 1-2; Dauphinules 1 (6)
24	1838(12.III)	Pourpre 145-151	Dauphinules 2-4; Cadran 1-3 (6)
25	1838(19.III)	Vis [1]-16	Scalaire 1-5; Cadran 4 (6)
26	[1838]	Vis 17-32	Roulette 1-3; Scalaire 6-7 (5)
27	1838	Vis 33-[42]	Mitre 1-7 (7)
28	1838	Struthiolaire [1]-6	Mitre 8-13 (6)
29	1838	Dauphinule [1]-10	Mitre 14-18, 20 (6)
30	1838	Roulette [1]-10	Mitre 21, 25-29 (6)
31	1838	Cadran [1]-12	Mitre 19, 22-24, 30-31 (6)
32	1838(9.X) ⁵	Scalaire [1]-12	Volute 1, 8, 11; Mitre 32-34 (6)
33	1838	Scalaire 13-22	Volute 2, 7, 12, 16-18 ⁶ (6)
34	1838	Mitre [1]-16	Volute 18 ⁷ , 35, 38, 45-46, 50 (6)
35 ⁸	1838	Mitre 17-32	Volute 3-6, 10, 15 (6)
36 ⁹	1838	Mitre 33-48	Volute 13-14, 33, 39, 47-48 (6)
37	1839	Mitre 49-64	Volute 9, 23 ¹⁰ , 31, 37, 42, 44 (6)
38	1839	Mitre 65-80	Volute 27, 30, 32, 34, 41, 51 (6)
39 ¹¹	1839	Mitre 81-96	Volute 20, 22, 40, 43, 52 (5)
40	1839	Mitre 97-108	Volute 21, 23 ¹² -24, 29, 36, 49 (6)
41	1839	Mitre 109-120	Volute 28; Pleurotome 3, 5, 8, 11, 20 (6)
42	1839(20.VII)	Volute [1]-16	Pleurotome 1, 6, 14, 16, 19, 22 (6)
43	1839	Volute 17-24	Pleurotome 12, 15, 17-18, 21, 23 (6)
44	1839	Volute 25-40	Pleurotome 4, 7, 9-10, 25-26 (6)
45	1839	Volute 41-56	Pleurotome 2, 13, 24, 27; Fuseau 3-4 (6)
46	1839	Volute 57-70	Fuseau 2, 6, 16, 22-23, 25 (6)
47	1839	Pleurotome [1]-16	Fuseau 5, 7, 12, 15, 17-17 ^{bis} (6)
48	1840	Pleurotome 17-32	Fuseau 1, 11, 13, 21, 26-27 (6)
49	1840	Pleurotome 33-48	Fuseau 10, 14, 19-20, 28, 30 (6)
50	1840(4.IV)	Pleurotome 49-64	Pyrule 6; Fuseau 8-9, 18, 24, 29 (6)
51	1840	Pleurotome 65-84	Pyrule 4, 8-10, 12, 14 (6)
52 ¹³	1840	Fuseau [1]-16	Pyrule 1, 3, 5, 11, 13, 15 (6)
53	1840	Fuseau 17-32	Pyrule 2, 7; Fasciolaire 1-2, 4, 6 (6)
54	1840	Fuseau 33-48	Fasciolaire 3, 5, 7, 9, 12-13 (6)
55	1840	Fuseau 49-62	Fasciolaire 8, 10-11; Turbinelle 7, 12, 17 (6)
56	1840	Pyrule [1]-16	Turbinelle 2-5, 10, 18 (6)
57	1840	Pyrule 17-34	Turbinelle 6, 8, 11, 14-15, 19 (6)
58	1840	Fasciolaire [1]-[19]	Turbinelle 1, 9, 13, 16, 20-21 (6)
59	1840	Turbinelle [1]-16	Colombelle 2-4, 6, 8, 11 (6)

Table 1. [Continued]

60	1841	Turbinelle 17-32	Colombelle 1, 5, 7, 9, 12, 14 (6)
61	1841	Turbinelle 33-50	Cancellaire 1, 7; Colombelle 10, 13, 15-16 (6)
62	1841	Colombelle [1]-16	Cancellaire 3-6, 8-9 (6)
63	1841	Colombelle 17-32	Buccin 30-31; Marginelle 10-13 (6)
64	1841	Colombelle 33-48	Cancellaire 2; Cérîte 3, 11-12, 17, 21 (6)
65	1841	Colombelle 49-63	Cérîte 2, 9-10, 13, 15, 28 (6)
66	1841	Marginelle 31-44; Buccin 105-112 ¹⁴	Cérîte 4, 7, 16, 22-24 (6)
67	1841	Cancellaire [1]-16	Cérîte 5-6, 14, 18-20 (6)
68	1841	Cancellaire 17-32	Cérîte 8, 25, 27, 29-30, 32 (6)
69	1841	Cancellaire 33-44	Cérîte 1, 26, 31; Ranelle 1, 4-5 (6)
70	1841	Cérîte [1]-16	Ranelle 2-3, 6-7, 9, 11 (6)
71	1841	Cérîte 17-32	Ranelle 8, 10, 12-15 (6)
72	1842	Cérîte 33-48	Triton 1-4, 8, 10 (6)
73	1842	Cérîte 49-64	Triton 5-7, 11-12, 14 (6)
74	1842	Cérîte 65-80	Triton 13, 17; Rocher 2, 6-7 (5)
75	1842	Cérîte 81-104	Triton 9, 15-16, 18; Rocher 4-5, 9 (7)
76	1842	Triton [1]-16	Rocher 3, 11-12, 23, 37-38 (6)
77 ¹⁵	1842	Triton 17-32	Rocher 8, 10, 26-27, 39-40 (6)
78	1842	Triton 33-48	Rocher 15-18, 21, 31 (6)
79	1842	Ranelle [1]-16	Rocher 13, 22, 25, 34, 36, 44 (6)
80	1842	Ranelle 17-32	Rocher 14, 19, 28, 35, 46-47 (6)
81 ¹⁶	1842	Dauphinule 11-12; Ranelle 33-40	Rocher 20, 24, 30, 32-33, 41 (6)
82	1842	Rocher [1]-16	Rocher 1, 29, 42-43, 45; Strombe 5 (6)
83	1843	Rocher 17-32	Strombe 1, 3-4, 11, 13, 25 (6)
84	1843	Rocher 33-48	Strombe 7, 10, 15, 17, 27-28 (6)
85	1843	Rocher 49-64	Strombe 21, 23, 29, 31-33 (6)
86	1843	Rocher 65-80	Strombe 6, 9, 22, 24, 26, 30 (6)
87 ¹¹	1843	Rocher 81-96	Strombe 2, 8, 16, 18, 20, 34; Volute 26 (7)
88 ¹⁷	1843	Rocher 97-112	Ptérocère 1-3, 5, 8 (5)
89	1843	Rocher 113-[131]	Ptérocère 4, 6-7, 9; Strombe 12, 14, 19 (7)
90	1843	Strombe [1]-16	Rostellaire 1-4; Ptérocère 10 (5)
91	1843	Strombe 17-32	Ancillaire 1, 3-6; Ovule 4-5 (7)
92	1843	Strombe 33-48	Ovule 1-3, 6; Ancillaire 2 (5)
93	1843(XI)	Strombe 49-64	Turritelle 1-3, 9-10, 12, 14 (7)
94	1843	Strombe 65-68; Ptérocère [1]-[15]	Turritelle 5, 7-8, 11, 13 (5)
95	1843	Rostellaire [1]-[15]	Porcelaine 7-8, 11, 14-16, 22 (7)
96	1844(XI)	Ancillaire [1]-16	Turritelle 4, 6; Porcelaine 4-5, 21 (5)
97	1844	Ancillaire 17-[31]	Porcelaine 9-10, 12, 17, 20 ¹⁸ , 23-24 (7)
98 ¹⁹	1844	Ovule [1]-16	Porcelaine 25, 28, 30-31, 34 (5)
99	1844	Ovule 17-[27]	Porcelaine 2-3, 18, 29, 32-33, 36 (7)
100	1844	Turritelle [1]-16	Porcelaine 6, 35, 41-42, 44 (5)
101	1844	Turritelle 17-32	Porcelaine 26-27, 37-40; Tarrière 1 (7)
102 ²⁰	1844	Turritelle 33-46	Porcelaine 19-20 ²¹ , 43, 50-51 (5)
			Title page to the complete Purpurifères Première partie; do. deuxième partie; Canalifères première partie; deuxième partie; troisième partie; famille columellaires; famille ailées
103	1844	Porcelaine [1]-16	Porcelaine 1, 45-48, 52-53 (7)
104	1844	Porcelaine 17-32	Porcelaine 13, 49, 54; Cône 4, 6 (5)
105	1845	Porcelaine 33-48	Cône 5, 20, 25, 28, 32, 47, 53 (7)
106	1845	Porcelaine 49-64	Cône 2-3, 12, 17, 34 (5)
107	1845	Porcelaine 65-80	Porcelaine 55-57; Cône 7, 9-10, 24 (7)
108	1845	Porcelaine 81-96	Cône 8, 30, 38, 41, 45 (5)
109	1845	Porcelaine 97-112	Cône 13-14, 18-19, 29, 31, 43 (7)
110	1845	Porcelaine 113-128	Cône 11, 15-16, 21, 44 (5)
111	1845(1.XI)	Porcelaine 129-144	Cône 22-23, 27, 35-36, 42, 46 (7)
112	1845	Porcelaine 145-166	Cône 26, 40, 48-50 (5)
113 ²²	1846	-	Cône 37, 39, 51-52, 54-56 (7)
114	1846	Cône [1]-16	Cône 33, 57-60 (5)
115	1846	Cône 17-32	Cône 61-65, 67-68 (7)
116	1846	Cône 33-48	Cône 66, 74-77 (5)

Table 1. [Continued]

117 ²³	1847	Cône [49-64]	Cône [69-70, 72-73, 78, 80, 82] (7)
118	1847	Cône 65-80	Cône 71, 79, 81, 83, 90 (5)
119	1847	Cône 81-96	Cône 86-87, 89, 91-92, 95-96 (7)
120	1847	Cône 97-112	Cône 1, 85, 88, 93-94 (5)
121	1847	Cône 130-128	Cône 84, 97-102 (7)
122	1847	Cône 129-144	Cône 103; Phasianelle 1-3, 5 (5)
123	1847(31.VII)	Cône 145-160	Turbo 3-7, 9, 12 (6)
124	1848	Cône 161-176	Phasianelle 4; Cône 104; Turbo 8, 10, 14 (5)
125	1848	Cône 177-192	Cône 105-106; Turbo 11, 15-16 ²⁴ , 18, 22 (7)
126	1848	-	Turbo 13, 17, 19-20, 23 (5)
127	1849	Cône 193-208	Cône 107; Turbo 1-2, 21, 24-26 (7)
128 ²⁵	1849	Cône 209-224	Troque 15-16; Turbo 27-29 (5)
129	1849	Cône 225-240	Turbo 30-34; Troque 17-18 (7)
130	[1850]	Cône 241-256	Turbo 1bis ²⁶ , 16 ²⁷ , 35-36; Troque 8 ²⁸ (5)
131	[1850]	Cône 257-272	Troque 2, 4-5, 7, 9, 12-13 (7)
132	[1850]	Cône 273-288	Troque 3, 6, 8 ²⁹ , 14, 23 (5)
133	[1850]	Cône 289-304	Cône 108-109; Troque 10, 24-26, 29 (7)
134	[1850]	Cône 305-320	Troque 11, 19-21, 27 (5)
135	[1850]	Cône 321-336	Troque 30-35; Cône 110 (7)
136	[1850]	Cône 337-352	Cône 111; Troque 22, 36-38 (5)
137	[1850]	Cône 353-[368]	Troque 39-41, 45, 50-52 (7)
138 ³⁰	1850	Tarière [1]-3 Phasianelle [1]-11	Troque 42-43, 46, 55-56 (5)

Table 2. Summary of the contents of the set studied. [Latin names as in Kiener, several are now used in a different sense (e.g. *Eburna*, *Rotella*), in a much restricted sense, (e.g. *Marginella*, *Murex*, *Buccinum*), have been abandoned for molluscs (e.g. *Triton*) or altogether (e.g. *Fusus*):]

Genre	Text	Plates
Marginelle (<i>Marginella</i>)	44 pp.	1-13
Thracie (<i>Thracia</i>)	7 pp.	1
Tornatelle (<i>Tornatella</i>)	6 pp.	1-2
Buccin (<i>Buccinum</i>)	112 pp.	1-31
Harpe (<i>Harpa</i>)	12 pp.	1-6
Pyramidelle (<i>Pyramidella</i>)	8 pp.	1-2
Eburne (<i>Eburna</i>)	8 pp.	1-3
Casque (<i>Cassis</i>)	40 pp.	1-14, lacks 12
Cassidaire (<i>Cassidaria</i>)	10 pp.	1-2
Tonne (<i>Tonna</i>)	16 pp.	1-5
Pourpre (<i>Murex</i>)	151 pp.	1-46
Vis (<i>Terebra</i>)	42 pp.	1-14
Struthiolaire (<i>Struthiolaria</i>)	6 pp.	1-2
Dauphinule (<i>Delphinula</i>)	10 pp.	1-3
Cadran (<i>Solarium</i>)	12 pp.	1-4
Scalaire (<i>Scala</i>)	22 pp.	1-7
Mitre (<i>Mitra</i>)	120 pp.	1-34
Volute (<i>Voluta</i>)	70 pp.	1-51
Pleurotome (<i>Pleurotoma</i>)	84 pp.	1-27
Fuseau (<i>Fusus</i>) ³¹	62 pp.	1-30, 17 ^{bis}
Pyrule (<i>Pyrula</i>)	34 pp.	1-15
Fasciolaire (<i>Fasciolaria</i>)	19 pp.	1-13
Turbinelle (<i>Turbinella</i>)	50 pp.	1-21
Colombelle (<i>Colombella</i>)	63 pp.	1-16
Cancellaire (<i>Cancellaria</i>)	44 pp.	1-9
Cérîte (<i>Cerithium</i>)	104 pp.	1-32
Triton (<i>Triton</i>)	48 pp.	1-18
Ranelle (<i>Ranella</i>)	40 pp.	1-15
Rocher (<i>Thais</i>)	131 pp.	1-47
Strombe (<i>Strombus</i>)	68 pp.	1-34
Ptérocère (<i>Pterocera</i>) ³²	15 pp.	1-10

Table 2. [Continued]

Rostellaire (<i>Rostellaria</i>)	15 pp.	1-4
Ancillaire (<i>Ancillaria</i>)	31 pp.	1-6
Ovule (<i>Ovula</i>)	27 pp.	1-5
Turritelle (<i>Turritella</i>)	46 pp.	1-14
Porcellaine (<i>Cypraea</i>)	166 pp.	1-57, 20 double
Cône (<i>Conus</i>)	368 pp.	1-111, lacks 69-70, 72-73, 78, 80, 82
Tarière (<i>Terebellum</i>)	3 pp.	1
Phasianelle (<i>Phasianella</i>)	11 pp.	1-5
Turbo (<i>Turbo</i>) ³³	-	1-36, 1 ^{bis} (see note 24), 16 double
Troque (<i>Trochus</i>) ³⁴	-	2-27, 29-43, 45-46, 50-52, 55-56, 8 double

NOTES

1. (livraison 1) The first livraison includes an Avis on the unnumbered page after page 30, outlining the concept of the work. On the rear wrapper recto is an outline of the publication scheme, stating that each livraison will contain six plates and a variable amount of text pages.

2. (11) This livraison has but five plates. Apart from the plates in the missing livraison 117 (see below), plate Casque 12 is the only one lacking. I assume it should have been included here as there should be six plates in this livraison.

3. (17) Contains a loose-leaf one page Avis stating that Duménil, the publisher and illustrator, no longer could contribute to this work. For this reason the first 21 livraisons of the set were re-labeled as published by Rousseau, instead of Duménil, the original publisher. But it was not until livraison 22 that the wrappers were replaced. This means this set must have been gathered or perhaps even ordered after publication of livraison 21.

The last plate with the name P. Duménil, as the illustrator, is in livraison 18, Pourpre 33, the penultimate plate in that livraison. Paul Chrétien Romain Constant Duménil (born 1779) is known as a natural history illustrator (Bénézit, 1966), and probably is the same person as the publisher of natural history works, P. Duménil. Why Duménil stepped out is neither recorded here nor known by me. Later, the name Duménil was erased from all plates and replaced by the printed text "publiée par J. B. Baillière" without, however, any loss in quality of the printing or the colouring.

4. (21) Last with livraison number printed (the others are 1-7, 10-12, 14-20, and with pink

pasted-on label "A Paris chez Rousseau, libraire, rue Richelieu 183" (this covering the text: "à la librairie d'histoire naturelle de P. Duménil"), and with a Bruxelles address included. This is also the last livraison with wrappers printed by Decourchant, and with text inside the rear wrapper and Duménil advert on the rear wrapper verso. The following livraison (#22) is the first with "Chez Rousseau, libraire, rue Richelieu 103" printed on the front wrapper recto and first with the wrappers printed by Terzuolo.

5. (32) This date was found by Cernohorsky (1968), nullifying all later dates given by Sherborn & Woodward (1901) for this and earlier livraisons.

6. (33) Contains first Volute plate 18 picturing *Voluta scapha* var. This remained plate 18.

7. (34) Contains second Volute plate 18 showing *Voluta imperialis*. In other copies I found this to be plate 19.

8. (35) This livraison is the first with the darker green wrappers printed by Decourchant, the firm that also produced the wrappers for the first 21 livraisons. The previous livraison (#34) is the last with the lighter green wrappers printed by Terzuolo.

9. (36) According to Sherborn & Woodward (1901: 217): "Bibl. Fr. Dec. 8, 1838, records livr. 26-36, each containing one sheet and six plates. We think, however, that there must be some error ; probably the numbers should read '20-30,' especially in view of the note that follows: 'La 31^e commence le 4^e volume. 10 livr. forment un volume.'" I see no reason to doubt the first statement. Surely livraisons 26 had five plates (as did 22) whereas 27 (and 23) had seven, but if one received all livraisons 26-36 in one batch that would not be apparent. The remark regarding the "volumes" only

suggests that the recorder was not a malacologist: no volume was complete(d) in ten livraisons. I therefore deviate from Sherborn & Woodward in dating livraisons 35-36 a year earlier. The conclusion that all Mitre plates were issued in 1838 was earlier reached by Cernohorsky (1968), who refuted the above statement by Sherborn and Woodward based upon references in Anton's "Verzeichniss der Conchylien", a work published on or shortly after 9 October 1838. Cernohorsky (1968, 1970) tentatively accepted Sherborn & Woodward's date of 1839 for the entire Mitra text, this is now shown to be incorrect for the first 48 pages but that probably has no nomenclatural consequences.

10. (37) Contains first Volute plate 23, with *Voluta hebraea*. This remained plate 23.

11. (39, 87) Probably livraison 39 should contain Volute plate 26, for in this set this livraison has only five plates. In this set plate 26 was included in Livraison 87, being one of seven plates. This might be the only misplaced plate in this set, however, livraison 39 is one of the few in this set with some worming, and Volute plate 26 is completely free of worming, as is livraison 87. At least this does indicate that this (dis)placement is not recent, and perhaps not a displacement at all.

12. (40) Contains second Volute plate 23, with *Voluta pellis-serpentis*. In the other copies I checked this plate is numbered 25.

13. (52) Last livraison with wrappers printed by Decourchant. Starting with #53 all wrappers were printed by Schneider et Langrand.

14. (66) Buccin page numbers 105-108 were already used in livraison 7 (1835) for a summary of the family. This was never corrected.

15. (77) Last livraison with inside blank wrappers, Rousseau listed as located on rue Richelieu 103, and Baillièrè on rue de l'école-de-médecine 13bis. From livraison 78 on the wrappers contain a Baillièrè publishing list inside and on the back, the addresses, or, rather, the street numbers, are changed, viz. Rousseau now on rue Richelieu 106, Baillièrè on rue de l'école-de-médecine 17. This might provide a clue to dating this livraison more exactly.

More significant, starting with #78 the title of the work was changed from "*Spécies*

général et iconographie des coquilles vivantes comprenant le Musée Masséna, la collection Lamarck, celle du Muséum d'Histoire naturelle, et les découvertes récentes des voyageurs."

into:

"Spécies général et iconographie des coquilles vivantes publiées par monographies comprenant la collection du Muséum d'Histoire naturelle de Paris, la collection Lamarck, celle de M. le Baron Delessert, et les découvertes récentes des voyageurs."

Neither title is the same as on the later title pages to the volumes. It is not known to me why Kiener deleted the reference to the Masséna museum in Nice (which is still extant).

16. (81) A printed "Avis" on a small piece of paper is inserted noting the additional descriptions of Dauphinules figured on plate 4 but not included in livraison 29. This was noted by Winckworth (1935) although he probably did not know in which livraison this note was inserted.

17. (88) A printed "Avis" on a small piece of paper is inserted, stating that some Strombe-plates were delayed for which reason the 89th livraison would contain seven plates and this livraison has only five. Subsequently nearly all the number of plates deviated from the then usual number of six (mostly alternating five and seven) but this was no longer emphasized.

18. (97) Includes the first state of Porcelaine plate 20 with the text "Prevots pinx" (fig. 3). Soon this plate was suppressed although original stock apparently was not destroyed as there are still many sets that do have this plate (R. Petit, by email).

19. (98) I have seen a small, printed "Avis" stating that the Porcellaine plate 20 was substandard and would be replaced soon. The replacement plate was issued in livraison 102, see notes 18 and 21.

20. (102) Contains a ½ p. printed "Avis" stating that on the request of many subscribers the title pages of completed groups were issued and included in this livraison. Nine groups not yet completed are mentioned as such. These are: Ovules, Ancillaires (Enroulées); Scalaires, Dauphinules (Scalariens); Cadrans, Roulettes (Turbinacées); Tornatelles, Pyramidelles (Plicacées), and Thracies (Myaires).

21. (102) Includes the second state of Porcelaine plate 20 with the text "Roch pinx". This new plate (fig. 4) is more detailed and more accurate than Prevots's "slowly" suppressed plate.
22. (113) this livraison is the first of two (the other being #126) which did not contain a text part.
23. (117) This is the only livraison in the set missing. The text pages and plate numbers between brackets are assumed to be part of this livraison, as they are not part of any other livraison.
24. (125) Contains the first of two *Turbo* plates 16. This one has "'Maubert del." printed beneath the figures (see fig. 1).
25. (128) In this and the following livraison, both published in 1849, only Troque plates 15-18 are included, all with species already validly named by other authors, hence all the new species named by Kiener and listed by Winckworth (1935) should be dated as from 1850.
26. (130) Turbo, Pl. 1bis actually represents the living *Cittarium pica* (L., 1758), a West Indian trochid. This plate was subsequently used by Fischer as *Trochus* plate 1 (fide Winckworth, 1935), with the plate captions altered accordingly.
27. (130) Contains the second of two *Turbo* plates 16. This one has "'Maubert pt." printed beneath the figures (fig. 2). One shell (two figures) appears to be replaced by that of another species, the other seems to be redrawn, or perhaps replaced too. The first plate, in livraison #125, was listed as plate 16bis in Fischer (1873-1879).
28. (130) Contains the first of two plates Troque 8, namely with *Trochus virgatus*, and *T. lineatus* which belong to the Trochidae. In later copies this is plate 28. Apparently this is what Winckworth (1935) listed as plate 8bis, but there is no "bis" printed on the plate and it is actually the first published Troque plate 8.
29. (132) Contains the second of two plates Troque 8, this one with *T. corrugatus* = *Xenophora c.* (Xenophoridae), which remained plate 8 in Fischer's work.
30. (138) The last livraison by Kiener. Included is a 2 pp. printed "Avis" (index) stating that the genera Troque and Turbo were "En cours de publication", and the title to the

Turbinacées "...sera publié à la fin des genres Troque et Turbo".

31. The last livraison by Kiener (#138) contains an index to the work which lists 30 plates for the Fuseau; apparently the bis-plate was overlooked.

32. The last livraison by Kiener (#138) contains an index to the work which lists nine plates for the Ptérochères but this set has ten plates. Evidently, 9 is a lapsus. It was corrected in later published indexes.

33. In 1873, 23 years after Kiener ended working on the "Spécies générales", Paul Fischer (1873-1879) finished the work by completing the Troque and Turbo sections.

In the temporary index in livraison 138 it is printed that for each a total of 56 plates was projected. From this set it can be concluded that Fischer (who, eventually, published more plates, bringing the total to 86 in Troque and 120 in Turbo and some additional genera separated from *Trochus*), was responsible for publishing the Troque plates 37-86, and the Turbo plates 1, 28, 44-49, 53-54, and all the 64 plates numbered higher than 56.

34. Fischer (1873-1879) divided the genus Troque into several genera not employed by Kiener, viz. *Calcar*, *Xenophora*, *Tectarius*, and *Risella* but kept "Troque (*Trochus*)" in the plate headings, only using the "new" genera in the plate captions, and retaining the "old" one by Kiener.

REFERENCES

Bénézit, E., 1966. *Dictionnaire critique et documentaire des peintres, sculpteurs, dessinateurs et graveurs de tous les temps et de tous les pays par un groupe d'écrivains spécialistes français et étrangers. Nouvelle édition entièrement refondue, revue et corrigée sous la direction des héritiers de E. Bénézit avec 32 reproductions hors-texte en héliogravure. Tome troisième D – Forain.* Paris: Gründ, 812, [iv] pp.

Cernohorsky, W. O., 1968. The date of publication of Kiener's *Mitra* monograph in the "Spécies général et iconographie des coquilles vivantes". *The Veliger* 10: 349-350

Cernohorsky, W. O., 1970. *Systematics of the families Mitridae & Volutomitridae*. Auckland: The Auckland Institute and Museum. 190 pp.

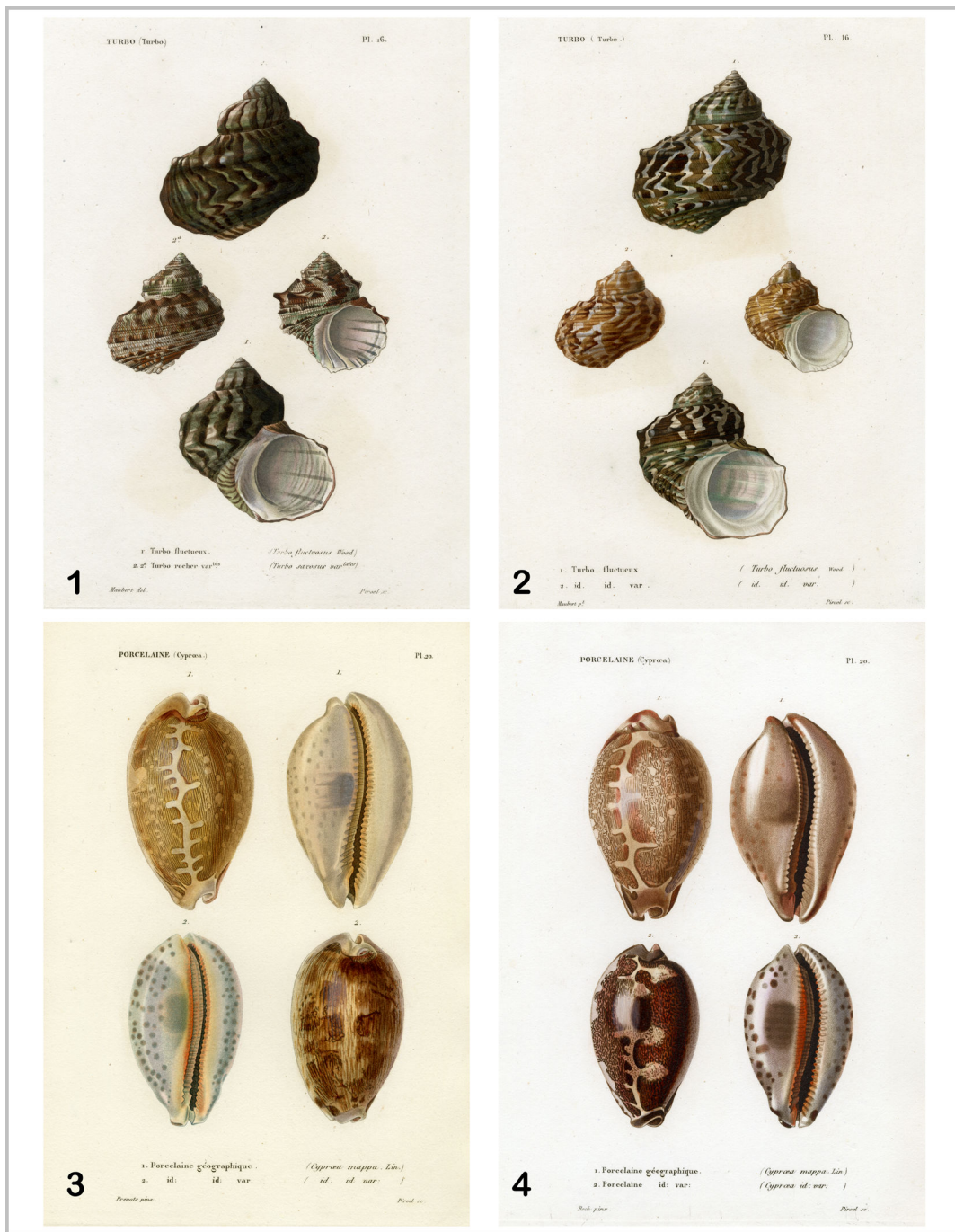
Fischer, P., 1873-1879. *Spécies général et iconographie des coquilles vivantes publiées par monographies comprenant la collection du Muséum d'Histoire naturelle de Paris, la collection Lamarck, celle de M. le Baron Delessert, et les découvertes récentes des voyageurs.* Paris: J. B. Baillière, 591 [128, 463] pp., 125 [50, 75] pls [not counting the plates published by Kiener]

Kiener, L. C. 1834-1850. "*Spécies général et iconographie des coquilles vivantes comprenant la collection du Muséum d'Histoire naturelle de Paris, la collection Lamarck, celle du Price Masséna (appartenant maintenant à M. le M. le Baron Delessert), et les découvertes récentes des voyageurs.*", incorporating "*Spécies général et*

iconographie des coquilles vivantes comprenant le Musée Masséna, la collection Lamarck, celle du Muséum d'His-toire naturelle, et les découvertes récentes des voyageurs." and "*Spécies général et iconographie des coquilles vivantes publiées par monographies comprenant la collection du Muséum d'Histoire naturelle de Paris, la collection Lamarck, celle de M. le Baron Delessert, et les découvertes récentes des voyageurs.*" Paris: Duménil (later: Rousseau) and J. B. Baillière. 2,132 pp., 827 plates.

Sherborn, C. D. & B. B. Woodward, 1901. Notes on the dates of publication of the parts of Kiener's "Species général et iconographie des coquilles vivants," etc. (1834-80). *Proceedings of the Malacological Society of London* 4: 216-219

Winckworth, R. 1935. Notes on nomenclature. 9. Kiener's *Trochus*. *Proceedings of the Malacological Society of London* 21: 324



Figs 1-4. Kiener plates (reduced) **1.** Turbo plate 16, first version, later listed as 16bis; **2.** Turbo plate 16, second version, which remained Turbo plate 16; **3.** Porcellaine plate 20, first ("slowly" suppressed) version; **4.** Porcellaine plate 20, second version.