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NAMES OF FISHES IN MEUSCHEN'S INDEX TO THE "ZOOPHYLACIUM GRONOVIANUM."

By

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The "Zoophylacium Gronovianum" is a well known book on animals which was published in 1763. The Latin names given to the species described therein by L. T. Gronow were binary but not consistently binomial and cannot therefore be utilized in taxonomy. In 1781 another edition of the "Zoophylacium" appeared which was a replica of the 1763 original, but at least some copies of it possessed an excellent index in which *binomial* names, mostly Linnean in origin and all based on the Linnean system, were given to Gronow's genera and species by F. C. Meuschen.

Very few zoologists seem to have been aware of Meuschen's compilation or much argument over the Gronovian names might have been avoided. The Australian Museum is fortunate in possessing a copy of the index, as it is evidently very rare. Sherborn does not quote it in his wonderful "Index Animalium," nor is it in Dean's "Bibliography of Fishes," and, so far as I know, Meuschen's 1781 names are only in general use amongst the conchologists who are indebted to Dall¹ for tabulating them. I am obliged to Mr. Tom Iredale for calling my attention to Meuschen's index several years ago. I am now able to offer a collation of the fish names which appeared therein and feel that these will prove important to ichthyologists generally. The mammals, reptiles, amphibia, insecta, vermes, and zoophyta claim the attention of others.

Besides giving binomial names to Gronow's species, Meuschen also indexed ordinal, family, and vernacular names but those are not considered in this paper. He also sometimes appeared to give more than one name to a Gronovian species-number or failed to supply a number to a name, but these discrepancies are due to obvious misprints or the use of a wrong font of type and have been rectified in the collation given below.

Several new specific names were introduced for fishes by Meuschen in 1778 and 1781 (see bibliography, *infra*) ; the former are indicated in the list below by an obelisk (†) and the latter by an asterisk (*). Some of these will be found to invalidate the use

¹ Dall.—Nautilus, xxxvii, 1923, pp. 44-52; Iredale, Rec. Austr. Mus. xv, 1927, pp. 327-328.

of later names proposed for Gronow's polynomials: *Gobius albula* Meuschen is an earlier name than *Gobius gronovii* Gmelin for the Portuguese Man-o'-War Fish (*Nameus*). It is, however, obviously impracticable to work out the synonymy and nomenclature of each species mentioned by Meuschen as that would involve the study of the fishes of Brazil, the East and West Indies, South Africa, and other regions. The fish names are therefore presented here with the addition of the authorities for the species and occasional remarks of my own enclosed in brackets.

Opinion 20 of the International Commission on Zoological Nomenclature stated that Gronow's 1763 genera "are to be accepted as complying with the conditions prescribed . . . to render a name available under the Code," but the Commission later suspended this ruling and eliminated Gronow 1763 from consideration as respects its systematic names (Opinion 89). Thus the genera as well as the species of Gronow are rejected by taxonomists. Some of them were used by Scopoli in 1777 but others may have to date from 1781, when Meuschen used them. In the index, alternative generic names are sometimes given to a species or a group of species. An example of this is "*Cynædus* s[eu] *Sparus mormyroides*." In cases of this kind, Mr. Iredale considers that the former genus mentioned is relegated to the synonymy of the latter, or, in the example selected, *Cynædus* (Gronow) Meuschen = *Sparus* Linnaeus, and many of Gronow's generic names are thus made absolute synonyms of Linnean ones. The writer, however, prefers the interpretation that Meuschen was uncertain which of two generic names should be employed and therefore gave both as alternatives.

Little appears to have been recorded in scientific literature concerning the life of Friedrich Christian Meuschen of Saxe-Hildburghausen. He was born in 1719 and died about 1790, having outlived Gronow, who had been his junior. The index was prepared after Gronow's death, as may be deduced from the dedication in the third fasciculus of the "Zoophylacium" and from the remarks of Walbaum (see bibliography). Meuschen appears to have written mainly on conchological subjects and evolved his own system of classifying molluses. His writings are listed in Sherborn's "Index Animalium," the "Catalogue of the Library of the British Museum (Natural History)," and Engelmann's "Bibliotheca." A genus of fishes has been named *Meuschenia* in his honour.

GRONOW'S PAGE.		GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
29		139	Balaena musculus [Linnaeus, 1758]. (A whale.)
30		140*	Acipenser helena [Meuschen, sp. nov.].
31		141†	Callorynchus seu Chimæra callorhynchus [Meuschen 1788— <i>fide</i> Sherborn] (= <i>Chimæra callorhynchus</i> Linnaeus 1758). Figured by Gronow, pl. iv, figs. 1-2.

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
32	142	<i>Squalus mustelus</i> [Linnæus 1758].
	143	" <i>carcharias</i> [Linnæus 1758].
	144	" <i>catulus</i> [Linnæus 1758].
	145	" <i>stellaris</i> [Linnæus 1758].
	146	" <i>sp.</i> [= <i>zygaena</i> Linnæus 1758.]
33	147	" <i>maximus</i> [Linnæus 1766].
	148	" <i>pristis</i> [Linnæus 1758].
34	149	" <i>acanthias</i> [Linnæus 1758].
	150*	" <i>colax</i> [Meuschen, sp. nov.].
	151	" <i>squatina</i> [Linnæus 1758].
35	152	<i>Raja altavela</i> [Linnæus 1758].
(as 158, part)	153	" <i>torpedo</i> [Linnæus 1758]. Figured by Gronow, pl. ix, fig. 3.
36	154	" <i>clavata</i> [Linnæus 1758].
	155	" <i>miraletus</i> [Linnæus 1758].
	156	" <i>rhinobatos</i> [Linnæus 1758].
37	157	" <i>batis</i> [Linnæus 1758].
	158	" <i>pastinaca</i> [Linnæus 1758].
38	159	<i>Petromyzon fluviatilis</i> [Linnæus 1758].
	160	" <i>branchialis</i> [Linnæus 1758].
	161	<i>Muræna cæca</i> [Linnæus 1758].
39	162	" <i>helena?</i> [Linnæus 1758].
	163*	" <i>helena rostrata</i> [Meuschen, var. nov.].
40	164*	" <i>helena fasciata</i> [Meuschen, var. nov.]. ²
	165*	" <i>helena punctata</i> [Meuschen, var. nov.].
	166	" <i>anguilla</i> [Linnæus 1758, as <i>angvilla</i>].
41	167	<i>Gymnotus rostratus</i> [Linnæus 1766].
(107 in error)	168	" <i>carapo</i> [Linnæus 1758].
	169	" <i>electricus</i> [Linnæus 1766]. Figured by Gronow, pl. viii, figs. 1-3.
43	170	<i>Syngnathus hippocampus</i> [Linnæus 1758].
	171	" <i>sp.</i> [probably <i>S. marinus</i> Linnæus 1762].
	172	" <i>acus</i> [Linnæus 1758].
	172 β	" <i>sp.</i> [= <i>typhle</i> Linnæus 1758].
44	173	<i>Ostracion cubitus</i> [Linnæus 1766 = <i>O. cubicus</i> Linnæus 1758].
	174	" <i>tuberculatus</i> [Linnæus 1758].
45	175	" <i>cornutus</i> [Linnæus 1758].
	176*	" <i>quadricorniformis</i> [Meuschen, sp. nov.].
	177	" <i>quadricornis</i> [Linnæus 1758].
46	178	" <i>trigonus</i> [Linnæus 1758].
	179	" <i>triqueter</i> [Linnæus 1758].
47	180	" <i>echinatus</i> [= <i>Diodon echinatus</i> Linnæus 1758].
	180 β	" <i>atringa</i> [= <i>Diodon atringa</i> Linnæus 1758].
	180 γ	" <i>reticulatus</i> [= <i>Diodon reticulatus</i> Linnæus 1758].
	181	" <i>holocanthus</i> [= <i>Diodon holocanthus</i> Linnæus 1758].
	181 β	" <i>hystrix</i> [= <i>Diodon hystrix</i> Linnæus 1758].
48	182	" <i>hispidus</i> [= <i>Tetraodon hispidus</i> Linnæus 1758].
	183*	" <i>lagocephalooides</i> [Meuschen, sp. nov.].

² Meuschen's varietal name preoccupies *Muræna fasciata* Thunberg 1789 which is a synonym of *Muræna colubrina* Boddært 1781, a species of *Chlevastes* (fide Weber and Beaufort, Fish. Indo-Austr. Archip., iii, 1916, p. 285).

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
50	184	Ostracion lagocephalus [= <i>Tetraodon lagocephalus</i> Linnæus 1758].
	185	" mola [= <i>Tetraodon mola</i> Linnæus 1758].
	186*	" cathetoplateus [Meuschen, sp. nov.].
51	187	Balistes aculeatus [Linnæus 1758].
	188	" verrucosus [Linnæus 1758].
	189	" sp. [= <i>chinensis</i> Bloch 1786 = <i>sinensis</i> Forster 1771, ex <i>Balistes chinensis</i> Osbeck 1765, translation of pre-Linnaean work.]
52	190	" ringens [Linnæus 1758].
	191	" tomentosus [Linnæus 1758]. Figured by Gronow, pl. vi, fig. 5.
	192	" aculeatus ? [Linnæus 1758].
	193	" monoceros ? [Linnæus 1758].
53	194†	" spinosus [Meuschen 1778].
	195	" vetula [Linnæus 1758].
	196*	" amarulentus [Meuschen, sp. nov.].
54	197	Cyclopterus lumpus [Linnæus 1758].
55	198†	Cyclogaster liparis [Meuschen 1778 = <i>Cyclopterus liparis</i> Linnæus 1766 ?]. Misprinted Cycoglaster.
	199	Gonorynchus ³ gonorynchus [= <i>Cyprinus gonorynchus</i> Linnæus 1766]. Figured by Gronow, pl. x, fig. 2.
56	200	Cobitis tænia [Linnæus 1758].
	201	" fossilis [Linnæus 1758].
	202	" barbatula [Linnæus 1758].
57	203*	Uranoscopus lyrapæus [Meuschen, sp. nov.].
	204*	" dracunculoides [Meuschen, sp. nov.].
	205	" dracunculus [= <i>Callionymus dracunculus</i> Linnæus 1758].
	206	" lyra [= <i>Callionymus lyra</i> Linnæus 1758].
58	207	Lophius piscatorius [Linnæus 1758].
	208	" histrio [Linnæus 1758].
	209	" vespertilio [Linnæus 1758].
	210*	" thymelicus [Meuschen, sp. nov.].
59	211	Sciæna umbra [Linnæus 1758].
	212	" cirrosa ? [Linnæus 1758].
60	213	Cynædus s. Sparus hurtu ? [Linnæus 1758] (or) rhomboides [Linnæus 1766].
	214	" denter [errore pro dentex, Linnæus 1758].
61	215	" erythrinus [Linnæus 1758].
62	216*	" mormyroides [Meuschen, sp. nov.].
	217	" chromis ? [Linnæus 1758].
	218	" salpa ? [Linnæus 1758].
63	219	" sargus [Linnæus 1758; <i>Cynædus sargus</i> Meuschen 1778].
	220	" aurata [Linnæus 1758].
64	221	" mormyrus [Linnæus 1758; <i>Trichopterus indicus</i> Gray 1854]. Figured by Gronow, pl. x, fig. 1.
	222	Sparus saxatilis [Linnæus 1758].
	223*	" punctatus [Meuschen, sp. nov.]. Figured by Gronow, pl. v, fig. 4.

³ Also spelt thus by Scopoli (Intr. Hist. Nat., 1777, p. 450), to whom the genus should be credited.

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
65	224	Holocentrus s. <i>Perca atraria</i> ? [Linnæus 1766].
	225	" sp. [= <i>rostratus</i> Gray 1854]. Figured by Gronow, pl. iv, fig. 3.
66	226*	Coracinus s. <i>Sciæna corrosus</i> [Meuschen, sp. nov.].
	227*	" <i>unimaculata</i> [Meuschen, sp. nov.]. (See Whitley, Mem. Qld. Mus. ix, 3, 1929, p. 233.)
67	228	Scarus s. <i>Labrus turdus</i> [Linnæus 1758].
	229*	" <i>ocellatus</i> [Meuschen, sp. nov.] (or) <i>saxatilis</i> ? Figured by Gronow, pl. vi, fig. 3. Not <i>Labrus ocellatus</i> Forskaal 1775 [non-binomial].
	230*	" <i>saxatiliformis</i> [Meuschen, sp. nov.].
68	231	Chætodon <i>arcuatus</i> [Linnæus 1758].
69	232	" <i>ciliaris</i> [Linnæus 1758].
	233	" <i>rostratus</i> [Linnæus 1758].
	234	" <i>macrolepidotus</i> [Linnæus 1758].
70	235	" <i>striatus</i> [Linnæus 1758].
	236	" <i>pinnatus</i> [Linnæus 1758].
	237	" <i>capistratus</i> [Linnæus 1758].
	238	<i>Labrus julis</i> ? [= <i>julis</i> Linnæus 1758].
71	239	" <i>griseus</i> ? [Linnæus 1758].
	240*	" <i>polyodon</i> [Meuschen, sp. nov.].
	241	" <i>julis</i> [Linnæus 1758].
	242	" <i>lunaris</i> [Linnæus 1758]. Figured by Gronow, pl. vi, fig. 2.
72	243*	" <i>torquata</i> [Meuschen, sp. nov. (? non Walbaum 1792)].
	244†	Callyodon s. <i>Labrus cretensis</i> [= <i>Callyodon cretensis</i> Meuschen 1778]. Figured by Gronow, pl. vii, fig. 4.
	245	" sp. [= <i>scriptus</i> Gray 1854].
73	246	Pleuronectes sp. [= <i>platessa</i> Linnæus 1758].
	247	" <i>hippoglossus</i> [Linnæus 1758].
	248	" <i>flessus</i> [= <i>flesus</i> Linnæus 1758].
	249	" <i>linguatula</i> [Linnæus 1758].
	250	" <i>lineatus</i> [Linnæus 1758] (or) <i>trichodactylus</i> [Linnæus 1758]. ⁴
74	251	" <i>solea</i> [Linnæus 1758].
	252	" <i>cynoglossus</i> [Linnæus 1758].
	253	" <i>rhombus</i> [Linnæus 1758].
	254	" <i>maximus</i> [Linnæus 1758; <i>P. rhombus</i> Gray 1854].
75	255*	" <i>soleaoidea</i> [Meuschen, sp. nov.].
	256	Echeneis <i>remora</i> [Linnæus 1758].
(255, part, in error)	257	" <i>neucrates</i> [Linnæus 1758].
	258	Blennius <i>superciliosus</i> [Linnæus 1758]. Figured by Gronow, pl. v, fig. 5.
76	259	" <i>pholis</i> [Linnæus 1758].
	260	" <i>mustelaris</i> [Linnæus 1758].
	261*	" <i>superciliosiformis</i> [Meuschen, sp. nov.].
	262	" sp. [= <i>retusifrons</i> Gray 1854].

⁴ Meuschen's identifications of no. 250 appear to be wrong as the species is evidently *P. achiurus* Linnæus.

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
	263	Blennius cristatus [Linnæus 1758; <i>Adonis cristatus</i> Gray 1854]. Figured by Gronow, pl. vi, fig. 4.
	264	„ gattorugine [Linnæus 1758; <i>Adonis cornutus</i> Gray 1854].
77	265 (255, part, in error)	Enchelyopus s. Blennius viviparus [Linnæus 1758].
	266	“ lumpenus ? [= <i>Blennius lumpenus</i> Linnæus 1758; <i>Enchelyopus lumpenus</i> Meuschen 1778].
78	267	Pholis s. Blennius grunellus [errore pro <i>Blennius gunnellus</i> Linnæus 1758].
	268	Cottus scorpius [Linnæus 1758].
79	269*	“ grunensis [Meuschen, sp. nov.] (replaces <i>Callionymus niger</i> Gray 1854).
	270	“ gobio [Linnæus 1758].
	271	“ cataphractus [Linnæus 1758].
	272	“ quadricornis [Linnæus 1758].
80	273	Amia calva [Linnæus 1766]. ⁵ Figured by Gronow, pl. ix, fig. 2.
	274	Trachinus draco [Linnæus 1758].
81	275	Gobius paganellus [Linnæus 1758].
	276	“ aphyia [Linnæus 1758].
82	277†	“ syrmatophorus [Meuschen 1778; <i>Cepola unicolor</i> Gray 1854]. Figured by Gronow, pl. iv, fig. 4.
	278*	“ albula [Meuschen, sp. nov.].
83	279	Eleotris s. Gobius niger ? [Linnæus 1758].
	280	“ “ niger [Linnæus 1758].
	281	“ “ eleotris [Linnæus 1758; <i>Eleotris eleotris</i> Meuschen 1778].
84	282	Trigla cataphracta [Linnæus 1758].
	283	“ gurnardus [Linnæus 1758].
	284	“ lucerna [Linnæus 1758].
85	285	“ volitans [Linnæus 1758; <i>Gonocephalus macrocephalus</i> Gray, 1854].
	286	Mullus barbatus [Linnæus 1758].
86	287*	Perca monopterus [Meuschen, sp. nov.].
	288	“ cernua [Linnæus 1758].
	289	“ schrätsler [Linnæus 1758].
87	290	“ scrofa [= <i>Scorpaena scrofa</i> Linnæus 1758].
	291	“ porcus [= <i>Scorpaena porcus</i> Linnæus 1758].
88	292*	“ horrida minor [Meuschen, var. nov.] {
	293*	“ horrida major [Meuschen, var. nov.] { Varieties of <i>Scorpaena</i> (= <i>Synanceja</i>) <i>horrida</i> Linnæus 1766]. No. 292 is figured by Gronow, pl. xi, fig. 1; pl. xii, fig. 1; and pl. xiii, fig. 1.
89	294	“ volitans [= <i>Gasterosteus volitans</i> Linnæus 1758].
	295	“ cottoides [Linnæus 1758].

⁵ Wrongly identified. *Amia calva* Meuschen (non Linnæus) = *A. perciformis* Gray 1854. *Amia* Meuschen is preoccupied by Linnæus, 1766, and may be renamed *Gronovichthys* with *Amia perciformis* [= *Gronovichthys moluccensis* (Valenciennes), Nouv. Arch. Mus. Hist. Nat. Paris, 1832, p. 54, *Apogon*] as orthotype. *Apogon* Lacépède (Hist. Nat. Poiss. iii, 1802, p. 411. Haplotype, *A. ruber* Lacépède = *Mullus imberbis* Linnæus) appears to be distinct.

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
90	296	Perca polymna [errore pro <i>P. polymna</i> Linnæus 1758].
	297	" diagramma [Linnæus 1758].
91	298	" guttata ? [Linnæus 1758].
	299	" lucioperca [Linnæus 1758].
	300	" labrax [Linnæus 1758].
	301	" sp. [= <i>vulgaris</i> Gray 1854.]
92	302*	" lucius [Meuschen, sp. nov.].
	303	" asper [Linnæus 1758].
93	304	Scomber scombrus [Linnæus 1758].
	305	" thynnus [Linnæus 1758].
94	306	" cordyla [Linnæus 1758].
	307*	" cordylaooides [Meuschen, sp. nov.] ⁶
	308	" trachurus [Linnæus 1758].
	309	" ductor [= <i>Gasterosteus ductor</i> Linnæus 1758].
95	310	" pelagicus [errore pro <i>S. pelagicus</i> Linnæus 1758; <i>Sarda immaculata</i> Gray 1854].
96	311	Zeus faber [Linnæus 1758].
	312	" vomer [Linnæus 1758].
97	313	Gadus lota [Linnæus 1758].
	314	" mustela [Linnæus 1758].
	315	" merluccius [Linnæus 1758; <i>Merluccius lanatus</i> Gray 1854].
98	316	" merlangus [Linnæus 1758].
	317	" virens [Linnæus 1758].
	318	" pollachius [Linnæus 1758].
99	319	" morhua [= <i>callarias</i> Linnaeus 1758].
	320	" barbatus [Linnæus 1758].
	321	" aeglefinus [Linnæus 1758].
100	322	Clarias s. Silurus sp. [= <i>anguillaris</i> Linnæus 1758].
		Figured by Gronow, pl. viiiia, figs. 3-5.
101	323	Silurus glanis [Linnæus 1758]. Figured by Gronow, pl. vi, fig. 1.
102	324†	Aspredo s. Silurus fluviatilis [= <i>Aspredo fluviatilis</i> Meuschen 1778].
	325†	" myrtus [errore pro <i>Aspredo mystus</i> Meuschen 1778].
		Figured by Gronow, pl. v, fig. 3.
	326	" aspredo [= <i>Silurus aspredo</i> Linnaeus 1758].
	327	Albula s. Salmo albula [= <i>Salmo albula</i> Linnæus].
		(Tautotype of the genus <i>Albula</i> Scopoli, 1777.)
103	328	Cyprinus tinca [Linnæus 1758].
104	329	" gobio [Linnæus 1758].
	330	" carpio [Linnæus 1758].
	331	" barbus [Linnæus 1758].
105	332	" nasus [Linnæus 1758].
	333	" cephalus [Linnæus 1758].
	334	" dobula [Linnæus 1758].
106	335	" orfus ? [Linnæus 1758].
	336	" alburnus [Linnæus 1758].
	337	" idbarus [Linnæus 1758].
107	338*	" rutiliformis [Meuschen, sp. nov.].
	339	" rutilus [Linnæus 1758].
	340	" erythrophthalmus [errore pro <i>erythrophthalmus</i> Linnæus 1758].

⁶ See Whitley, Rec. Austr. Mus. xv, 1927, p. 300.

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
108.	341	<i>Cyprinus aspius</i> [Linnæus 1758].
	342	" <i>auratus</i> [Linnæus 1758]. (Varieties α , β , etc. of Goldfish not named.)
109.	343	" <i>carassius</i> [Linnæus 1758].
110.	344	" <i>ballerus</i> [Linnæus 1758].
	345	" <i>brama</i> [Linnæus 1758].
111.	346	" <i>orfus</i> [Linnæus 1758].
	347	<i>Clupea alosa</i> [Linnæus 1758].
	348	" <i>harengus</i> [errore pro <i>C. harengus</i> Linnæus 1758].
	348 β	" <i>sprattus</i> [Linnæus 1758].
112.	349	<i>Argentina sphyraena</i> [Linnæus 1758].
	350*	" <i>carolina</i> [Meuschen, sp. nov.].
	351	<i>Synodus</i> s. <i>Esox synodus</i> [= <i>Esox synodus</i> Linnæus 1758; <i>Synodus synodus</i> Meuschen 1778]. Figured by Gronow, pl. vii, fig. 1.
113.	352	<i>Hepatus</i> s. <i>Stromateus javus</i> [= <i>Teuthis javus</i> Linnæus 1766]. Figured by Gronow, pl. viii, fig. [4].
	353*	" " <i>seserinus</i> [Meuschen, sp. nov.] ⁷
114.	354	<i>Erythrinus</i> s. <i>Cyprinus cephalus</i> [Linnæus 1758; <i>Erythrinus salmoneus</i> Gray 1854]. Figured by Gronow, pl. vii, fig. 6.
	355†	<i>Umbra catulus</i> [Meuschen 1778].
115.	356	<i>Cataphractus</i> s. <i>Pegasus volitans</i> [Linnæus 1758]. Figured by Gronow, pl. xii, figs. 2-3.
	357	" " <i>natans</i> [Linnæus 1766]. Figured by Gronow, pl. xi, figs. 2-3.
116.	358	<i>Exocetus evolans</i> [Linnæus 1766].
	359	" <i>volitans</i> [Linnæus 1758].
117.	360	<i>Anableps</i> s. <i>Cobitis anableps</i> [Linnæus 1758]. Figured by Gronow, pl. i, figs. 1-3.
	361	<i>Esox lucius</i> [Linnæus 1758].
	362	" <i>bellone</i> [Linnæus 1758; <i>Macrognathus scolopax</i> Gray 1854].
118.	363	" <i>brasiliensis</i> [Linnæus 1758].
	364	" <i>osseus</i> [Linnæus 1758].
119.	365	<i>Solenostomus</i> s. <i>Fistularia tabacaria</i> [Linnæus 1758; <i>Flagellaria fistularis</i> Gray 1854].
	366	" <i>chinensis</i> [Linnæus 1766].
120.	367	<i>Salmo</i> " <i>trutta</i> [Linnæus 1758].
(267 in error)	368	" <i>lacustris</i> [errore pro <i>S.. lacustris</i> Linnæus 1758].
	369	" <i>salar</i> [Linnæus 1758].
121.	370	" <i>salvelinus</i> [Linnæus 1758].
	371	" sp. [= <i>fario</i> Linnæus 1758].
	372	" <i>alpinus</i> [Linnæus 1758].

⁷ Meuschen also associates the specific names *fiatola* and *hepatus* with No. 353. The former is *Stromateus fiatola* Linnæus 1758 and the latter, *Teuthis hepatus* Linnæus 1766. *Hepatus* s. *Stromateus seserinus* Meuschen is a synonym of *Teuthis hepatus* Linnæus, the genotype of *Teuthis* (see Whitley, Rec. Austr. Mus. xvi, 1928, pp. 230-231). *Acronurus fuscus* Gray 1854 is another synonym.

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
122	373	<i>Salmo eperlanus</i> [Linnæus 1758].
	374	„ <i>oxyrinchus</i> [Linnæus 1758].
	375	„ <i>thymallus</i> [Linnæus 1785].
	376	<i>Anostomus s. Salmo anostomus</i> [= <i>Salmo anostomus</i> Linnæus 1758; <i>Anostomus anostomus</i> Meuschen 1778]. Figured by Gronow, pl. vii, fig. 2.
123	377	<i>Charax s. Salmo notatus</i> [Linnæus 1766] (or <i>lavaretus</i> ? [Linnæus 1758].
	378*	„ „ <i>cynnoides</i> [Meuschen, sp. nov.]. Figured by Gronow, pl. xiii, fig. 2.
124	379	„ „ <i>immaculatus</i> [Linnæus 1758].
	380	„ „ <i>gibbosus</i> [Linnæus 1758]. Figured by Gronow, pl. i, fig. 4.
	381	„ „ <i>bimaculatus</i> [Linnæus 1758]. Figured by Gronow, pl. i, fig. 5.
125	382	<i>Mystus s. Silurus bagre</i> [Linnæus 1766].
	383	„ „ <i>costatus</i> [Linnæus 1758]. Figured by Gronow, pl. v, figs. 1-2.
	384	„ „ <i>clarias</i> [Linnæus 1758].
	385	„ „ <i>ascita</i> [Linnæus 1758; <i>Mystus ascita</i> Meuschen 1778].
126	386	„ „ <i>fasciatus</i> [Linnæus 1766].
	387	„ „ <i>cous</i> [Linnæus 1766; <i>Mystus cous</i> Meuschen 1778]. Figured by Gronow, pl. viii, fig. 7.
	388	„ „ <i>anguillaris</i> [Linnæus 1758; <i>Mystus anguillaris</i> Meuschen 1778]. Figured by Gronow, pl. viii, fig. 6.
127	389	<i>Callichthys s. Silurus callichthys</i> [Linnæus 1758]; <i>Callichthys callichthys</i> Meuschen 1778].
	390	„ „ <i>cataphractus</i> [Linnæus 1758]; <i>Callichthys cataphractus</i> Meuschen 1778]. Figured by Gronow, pl. iii, figs. 3-4.
	391	<i>Plecostomus s. Loricaria cataphracta</i> [Linnæus 1758; <i>Plecostomus cataphractus</i> Meuschen 1778]. Figured by Gronow, pl. ii, figs. 1-2.
	392*	„ „ <i>loricaria</i> [Meuschen, sp. nov.].
128	393*	<i>plecostomoides</i> [Meuschen, sp. nov.].
	394	„ „ <i>plecostomus</i> [Linnæus 1766; <i>Plecostomus plecostomus</i> Meuschen 1778]. Figured by Gronow, pl. iii, figs. 1-2.
	395	<i>Centriscus scolopax</i> [Linnæus 1766].
129	396	„ <i>scutatus</i> [Linnæus 1758]. Figured by Gronow, pl. vii, fig. 3.
	397	<i>Mugil cephalus</i> [Linnæus 1758].

GRONOW'S PAGE.	GRONOW'S SERIAL NO.	MEUSCHEN'S IDENTIFICATION.
130	398	<i>Polynemus quinquarius</i> [Linnæus 1758].
	399	[<i>Atherina</i> ^s] <i>herpetus</i> [errore pro <i>Atherina hepsetus</i> Linnæus 1758].
131	400	<i>Anarrhichas lupus</i> [Linnæus 1758].
	401	<i>Ophidion imberbe</i> [Linnæus 1758].
132	402	<i>Mastacembelus</i> s. <i>Ophidion macroptalmum</i> [Linnæus 1758]. Figured by Gronow, pl. viiiia, figs. 1-2.
133	403	" " sp. [= <i>pentophthalmos</i> Gray 1854.]
	404	<i>Ammodytes tobianus</i> [Linnæus 1758].
134	405	<i>Gasterosteus aculeatus</i> [Linnæus 1758].
	406	" <i>pungitius</i> [Linnæus 1758].
(as 407, part)	407	<i>spinachia</i> [Linnæus 1758].
135	408	<i>Channa</i> s. <i>Labrus hepatus</i> [Linnæus 1758]. Figured by Gronow, pl. ix, fig. 1.
	409	<i>Gasteropelecus</i> s. <i>Clupea sternicla</i> [Linnæus 1758]. Figured by Gronow, pl. vii, fig. 5.
	410†	<i>Leptocephalus tæniola</i> [Meuschen 1778]. ^o Figured by Gronow, pl. xiii, fig. 3.
136	411	<i>Gymnogaster</i> s. <i>Trichiurus lepturus</i> [Linnæus 1758].

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^s Meuschen omitted the generic name *Atherina* and his specific name is evidently a misprint for *hepsetus*.

^o The earliest binomial name for the "Leptocephalus" larva of the Conger Eel, *Leptocephalus conger* (Linnæus).

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