

Étude bibliographique

Prof. Luigi SANZO: a bibliographic revision with ichthyological notes

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Abstract : The bibliography of Luigi SANZO (1874–1940) is revised by reading available basic references including unpublished sources. His works cover a broad range of zoology-related fields, but his main interest apparently focuses on marine biology represented by early life history of teleostean fishes, bathyal and neritic. He published totally 122 works during the period from 1900 to 1940. Through such activities, looks unique his interest shown in a monograph (1911) on comparative morphology of 17 gobiid fishes. The origin of the interest is inferable from his academic career.

Résumé: La bibliographie de Luigi SANZO (1874–1940) est revue par la lecture avec soin de renseignements fondamentales disponibles, y compris des bonnes sources non publiées. Ses ouvrages embrasse le champ étendu concernant à zoologie, mais son premier intérêt était évidemment concentré sur biologie marine, surtout le premier cycle biologique des téléostéens bathyaux et aussi néritique. M. SANZO a publié un total de 122 ouvrages pendant 41 ans depuis 1900 jusqu'à 1940. Dans sa toute activité académique durant, il a montré son unique intérêt par un monographie (1911) sur morphologie comparée de 17 espèces de gobie. La particularité de cet ouvrage peut être inférée d'une carrière académique dans sa vie.

Key words : *words:Luigi SANZO, bibliography, ichthyology*

1. Introduction

Prof. Luigi Sanzo (Capizzi, 1874–Messina, 1940) was a Messinese marine biologist with indefatigable enthusiasm for scientific research. His birth place is unexpectedly a small city rising 1146 m above sea level, and with 3899 inhabitants (as for 1985; after Tour. Club Ital., 1996) among the Nebrodi Mountains in Messina Province, Italy. The mountain life in this city, however, was not necessarily independent from the sea. Capitinean boys of other days used to go down for eel fishing as far as Aquedolci (more than 50 Km distant from Capizzi) on the Tyrrhenian coast. (Mainone M. Salvatore, pers. commun.)

According to SPARTÀ (1941), he studied first

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pharmacology at the Regia Università di Messina, directed by Prof. G. GAGLIO, and did his degree in medicine and surgery in 1899, and soon afterward (in 1901) a degree in natural sciences. His career was completely shifted from medical fields to zoological ones in 1907, when he was nominated as Lecturer and Assistant of comparative anatomy and physiology at the Istituto di Zoologia, Regia Università di Palermo. Afterwards, he devotedly kept working at marine biology, later (1916–1940) as Director at the Istituto Centrale di Biologia Marina in Messina, Regio Comitato Talassografico Italiano, actually the Istituto Sperimentale Talassografico, Consiglio Nazionale di Ricerche, Messina. (Appendix 1)

During 41 years from 1900 to 1940, Sanzo published 122 contributions in serial issues or in books. The total number of his works is

referred again later in detail. Basic source of his bibliography is given as the following two. One is a collection of reprints bound in 3 volumes (92 papers), and entitled "Luigi Sanzo Opere I to III (SOI-III). The 3-volume Works is deposited in the Istituto Sperimentale Talassografico, Messina. The other is a bibliography (125 entries; LS) compiled by SPARTÀ (1941). Following these two references, other two bibliographic references may be added to the source. One of them is the Clofnam bibliography sections (CL) compiled by HUREAU and MONOD (1973: 132-134; 46 entries) and by TORTONESE and HUREAU (1979: 390; 1 entry). The other is a set of unpublished reference cards (68 entries; SZ) for the library of the Stazione Zoologica "Anton Dohrn," Naples. The cards are of 11 sheets of 147 × 175 mm in size, and with the headings of "Luigi Sanzo" (10 sheets) or "Sanzo, L. & Pirrone, F." (1 sheet).

To reading carefully those four basic sources, libraries deposited in Italy and France has been referred, as much as possible. Such libraries are of:

Museo Civico di Storia Naturale "Giacomo Doria" (BMD), Genova; Istituto Idrografico Marina (BII), Genova; Bibliothèque Centrale (BCM) and Laboratoire d'Ichthyologie Générale et Appliquée (LIM; reprint collection) of the Museum National d'Histoire Naturelle, Paris.

Results of our revision are enlisted in the Section 2, below, and some related topics are summarized in the succeeding sections. Our report was partly illustrated at the annual meetings (poster session) for 1997 and 1999 of the Ichthyological Society of Japan.

2. Annotated bibliography of L. SANZO

The 122 entries contained here are each composed of three parts or paragraphs as given as follows, while the third one is occasional.

A. Bibliographic elements

This is the first paragraph, that is, the main body of each entry. The elements may be shown in the following three categories.

(i) Publication date, or entry code, with a supplementary letter (a, b, c,...), if necessary: this listing is arranged principally in chronological order (by year), but at random within

the framework of the publication year, unless any reliable reason is provided;

(ii) Text title: it is accompanied with its tentative translation in English in brackets, when the title is in Italian; it is noted here that this report relates generally to the text title, but not to the body of text, unless otherwise stated;

(iii) Other elements for serials and books: their title is generally described in full; pagination of the text in serials is given as that in original issue, as far as possible; in cases, it may be of reprints.

B. Bibliographic annotation

The second paragraph of each entry is primarily for the registration of sources read for our survey. Second, it is for any difference in the elements, if any, between the registered description shown in the first paragraph (Paragraph A, above) and concerned element in references. Cross references may be given here, if necessary.

The references and their abbreviation are mentioned above, in the section of introduction. They are alphabetically summarized as index by abbreviation on the following lines.

BCM: libraries deposited in the Bibliothèque Centrale, MNHN, Paris;

BII: one of libraries deposited in the Istituto Idrografico Marina, Genova;

BMD: libraries deposited in the Museo Civico di Storia Naturale "Diacomo Doria," Genova;

CL: entries of the Clofnam bibliography sections;

LIM: reprint collection deposited in the Laboratoire d'Ichthyologie Générale et Appliquée, MNHN, Paris;

LS: entries of the "Publicazioni di Luigi SANZO" in SPARTÀ (1941); entry number (1-125) is given here in parentheses;

SOI-SOIII: reprint collection in three volumes deposited in the Istituto Sperimentale Talassografico, Messina; Sanzo Opere I (46 papers), Sanzo Opere II (35 papers) and Sanzo Opere III (10 papers); each volume is indexed in numerical code; the code number is given here in parentheses;

SZ: entries of the reference cards for the Stazione Zoologica "Anton Dohrn," Naples; sheet number (1-10) is given here in

parentheses.

C. Taxonomic comments

The taxonomic state of taxa referred by SANZO at that time may frequently be out of the application from the today's criterion of taxonomy. The third paragraph is for the

synonym problem on taxa referred in the text title. Such species are shown here with their revised name(s) always from the standpoint of the Clofnam (1973). Cross references may be given, if necessary.

Bibliography of Luigi SANZO

- 1900 Sull'acido carbonico quale uno dei fattori della fatica muscolare. [On carbonic acid as one of the factors of muscular fatigue.] Volume in omaggio a Prof. Luciani. «Ricerche di fisiologia e scienze affini». Milan: Società Editrice Libreria. 12 p.+3 pls.
SOI(1); LS(1); SZ(1) [Pagination] 2 p., 1 fig., 3 pls.
- 1903a Sur un processus d'inhibition dans les mouvements rythmiques des méduses. Archives Italiennes de Biologie, Torino, **39 (3)**: 319-324.
SOI(3); LS(8); SZ(1) [Text pagination] 8 p.; BCM.
- 1903b Su di un processo d'inibizione nei movimenti ritmici delle meduse. [On a process of inhibition in the rhythmical movements of jellyfishes.] Rivista di Biologia Generale, Torino, **5 (3)**: 1-6, pls. 1-3.
SOI(2) [Text pagination] may be of the reprint issue; LS (2) [Publication date] not cited; SZ(1) [Publication date] 1905.
- 1904a Trasformazione sperimentale delle uova lecitiche diffuse in uova telelecitiche e susseguente modificazione della segmentazione uguale in segmentazione oloblastica disuguale. [Experimental transformation from diffused lecithal eggs into telelecithal eggs and the following modification from regular segmentation to irregular holoblastic segmentation.] Ricerche fatte nel Laboratorio di Anatomia Normale della R[eale] Università di Roma ed in altri laboratori biologici **10 (3)**: 263-272, 4 figs., pl. 16.
SOI(7); LS(5); SZ(1); BCM
- 1904b Tre nuovi metodi per fissare e ritrovare al microscopio un punto qualunque di un preparato. [Three new methods in order to fix and run in the microscope any point of a preparation.] Zeitschrift für wissenschaftliche Mikroskopie und für mikroskopische Technik, Leipzig, **21 (1)**: 27-46, figs. 1-15.
SOI(5); LS(10); SZ(1); BCM
- 1905a Apparecchio utile in embriologia per la fissazione automatica a tempi voluti di embrioni in viadi sviluppo. [Useful instruments in embryology for automatic fixation at desired times of developing embryos.] Zeitschrift für wissenschaftliche Mikroskopie und für mikroskopische Technik, Leipzig, **21 (4)**: 449-457, figs. 1-4.
SOI(4); LS(9) [Publication date] 1904, may be confused with a business term; SZ(2); BCM. This paper was "eingegangen am 9. Januar 1905".
- 1905b Uova e larve di Murenoidi. [Eggs and larvae of muraenoids.] Atti della R[eale] Accademia Peloritana **19 (2)**: 1-7.
SOI(6) [Text pagination] in reprint issue; LS(3) [Publication date] 1904; may be confused with the date of meeting (3 December 1904); SZ not registered; CL [Text pagination] p. 311-315.
The Murenoidi may correspond to the suborder Anguilloidei. The following species are referred in this paper. According to SPARTÀ (1941 : 248), they should be *Nettastoma melanura* Rafinesque [= *Nettastoma melamurum* Rafinesque, 1810] and *Congromuraena mystax* of Günther, 1870 [= *Muraena mystax* Delarouche, 1809.] The latter is revised as *Gnathophis mystax* (Delarouche, 1809). According to the Clofnam, the referred species are *Muraena helena* Linnaeus, 1758, *Chlopsis bicolor* Rafinesque, 1810, and *Echelus myrus* (Linnaeus, 1785). (BLACHE, BAUCHOT and SALDANHA, 1973b, c, d, e, f)

- 1905c Sulle cause dell'attuale moria dei molluschi bivalvi coltivati nei laghi di Ganzirri e Faro (Messina). [On the causes of the current diseases of the bivalve molluscs cultivated in the lakes of Ganzirri and Faro (Messina).] Atti della R[eale] Accademia Peloritana **19** (2): 1-21, 1 pl.
 LS(11) [Serial issue number] not referred; SZ(1) [Text pagination] 21 p.; BCM. The above-mentioned text pagination may be of reprint issue.
- 1905d Impiego dell'elettrolisi nella impregnazione metallica e nella colorazione dei tessuti. [Use of electrolysis in metallic impregnation and coloration of tissues.] Atti della R[eale] Accademia Peloritana **19**: 1-3.
 SOI(8) [Text pagination] may be of reprint issue; LS(4); SZ (2).
- 1905e Particolare disposizione del sacco vitellino in un embrione di Selacide. [Particular disposition of the yolk sac in an embryo of selachians.] Atti della R[eale] Accademia Peloritana **19**: 1-2.
 SOI(9) [Text pagination] may be of reprint issue; LS(7); SZ not registered.
- 1905f Impiego dell'elettrolisi nella impregnazione metallica e nella colorazione dei tessuti. [Use of electrolysis in metallic impregnation and in coloration of tissues.] Anatomischer Anzeiger, Jena, **27**: 269-270.
 LS(6); SZ(2); BCM.
- 1907a Zur Kenntnis des Stickstoff-Stoffwechsels bei marinen wirbellosen Tieren. Biologisches Zentralblatt, Leipzig, **27**: 479-491, 1 fig.
 LS(12) [Publication date] 1905; SZ(2); BCM.
- 1907b Sul ritmo dei cuori di due larve di *Discoglossus*, saldate insieme. [On the heart rhythm of two larvae of *Discoglossus*, joined together.] Atti della [Reale] Accademia dei Lincei [5] Rendiconti **16** (1): 979-981.
 LS(14); SZ(2); BCM.
- 1907c Contrazioni ritmiche antiperistaltiche nell'intestino terminale di larve di *Discoglossus pictus*. [Rhythmic contraction of antiperistalsis in the terminal intestine of *Discoglossus pictus*.] Atti della R[eale] Accademia dei Lincei [5] Rendiconti **16** (2): 149-151, fig. 1.
 SOI(10); LS(13); SZ(2); BCM.
- 1909a Uova e larve di *Auxis bisus*. [Eggs and larvae of *Auxis bisus*.] Monitore Zoologico Italiano, Florence, **20** (2-3): 79-80.
 SOI(11) [Publication date] 1908; LS(15); SZ(2); BMD.
 The *A. bisus* (Rafinesque) Morreau, 1881 (= *Scomber bisus* Rafinesque, 1810) is revised as *Auxis rochei* (Risso, 1810). (POSTEL, 1973a)
- 1909b Uova e larve di Scomberoidi. [Eggs and larvae of Scombroidei.] Bollettino del Ministero di Agricoltura Industria e Commercio [B] **8** (5): 86-87.
 SOI(12) [Publication date] 1908; LS (16); SZ not registered.
 The Scomberoidi in the text title may be translated as the suborder Scombroidei, but not the genus *Scomberoides* Lacepède, 1802. This inference is based on the text title of Entry [1910b].
- 1910a Studi sulla biologia del Tonno (*Orcynus thynnus* Ltkn). I. Uova pelagiche e periodo di maturità sessuale. [p. 1-4] II. Migrazioni batimetriche. [p. 4-7] III. Stadi giovanissimi d' *Orcynus thynnus* Ltkn., e identità tra questa specie e il *Thynnus brachypterus* C. V. [p. 7-15] [Studies on the biology of the bluefin tuna (*Orcynus thynnus* Lütken). I. Pelagic eggs and the period of sexual maturity. II. Bathymetric migrations. III. Youngest stages of *Orcynus thynnus* Lütken, and the identity between this species and *Thynnus brachypterus* Cuvier et Valenciennes.] Rivista Mensile di Pesca e Idrobiologia, Pavia, **5** (1): 1-15, figs. 1-3.
 SOI(15); LS(19); SZ(2); LIM; BMD. This paper includes three sections with their respective in-text subtitle, above.
 The *O. thynnus* of Lütken, 1880, and *T. brachypterus* Cuvier, 1832, in C. V. are either synonym of *Thunnus (Thunnus) thynnus* (Linnaeus, 1758); the genus *Orcynus* Cuvier, 1817, is a synonym of *Germo* Jordan, 1889. (POSTEL, 1973a)

- 1910b Uova e larve di Scomberoidi. Nota preliminare. I. Larva di Tonno (*Orcynus thynnus* Ltkn.) [p. 202] II. Uovo e larva di Palamida (*Pelamys sarda* C. V.) [p. 202–205, figs. 1–3] III. Uova pelagiche di Alalunga (*Orcynus germo* Ltkn.) [p. 205] [Eggs and larvae of Scombroidei. Preliminary note. I. Larvae of bluefin tuna (*Orcynus thynnus* Lütken). II. Eggs and larvae of a pelamid (*Pelamys sarda* Cuvier et Valenciennes). III. Pelagic eggs of albacore (*Orcynus germo* Lütken).] *Rivista Mensile di Pesca e Idrobiologia*, Pavia, **5** (7–9): 201–205, figs. 1–3.
SOI(13); LS(17); SZ(3); LIM. This paper includes the three sections with their respective in-text subtitle, above.
[Section 1] For the nomenclature of the *O. thynnus*, see Entry [1910a]. [Section 2] The *P. sarda* of Cuvier, 1832, in Cuv. Val. (= *Scomber sarda* Bloch, 1793) is revised as *Sarda sarda* (Bloch). (POSTEL, 1973b) [Section 3] The *O. germo* of Lütken, 1880, is a synonym of *Thunnus* (*Germa*) *alalunga* Bonnaterre, 1788. (POSTEL, 1973a) For the genus name *Orcynus*, see Entry [1910a].
- 1910c Uova e larve di pesce spada (*Xiphias gladius* L.) [Eggs and larvae of swordfish (*Xiphias gladius* Linnaeus).] *Rivista Mensile di Pesca e Idrobiologia*, Pavia, **5** (7–9): 206–209, figs. 1–2.
SOI(14); LS(18); SZ(2); CL; LIM; BMD.
- 1910d Uova e larve di Scomberoidi. [Eggs and larvae of Scombroidei.] *Bollettino del Ministero di Agricoltura Industria e Commercio* **2** [C] (12): 1–3.
SOI(16); LS(20); SZ not registered.
- 1911 Distribuzione delle papille cutanee (organi ciatiformi) e suo valore sistematico nei Gobi. [Distribution of the dermal papillae (cup-formed organs) and their systematic value in the *Gobius*.] *Mitteilungen aus der Zoologischen Station zu Neapel* **20** (2): 251–328, 15 figs., pls. 9–12.
SOI(17); LS(21); SZ(3) [pagination] p. 351 (clerical error)–328, 15 figs, 12 pls.; CL [Text pagination] p. 249–328.
- 1912a Comparsa degli organi luminosi in una serie di larve di *Gonostoma denudatum* Raf. [Appearance of the luminous organs in a series of larvae of *Gonostoma denudatum* Rafinesque.] *R[egio] Comitato Talassografico Italiano, Memoria* **9**: 1–23, 4 figs., 1 pl.
LS(22); SZ(3) [Pagination] 22 p., 1 pl.; CL; LIM; BMD.
- 1912b Larva di *Stomias boa* Risso. [Larva of *Stomias boa* Risso.] *R[egio] Comitato Talassografico Italiano, Memoria* **10**: 1–6, 1 pl.
SOII(1); LS(23); SZ(3); CL; LIM; BMD.
The *S. boa* of Cuvier, 1817, (= *Esox boa* Risso, 1810) is revised as *Stomias boa* (Risso). (MORROW, 1973b)
- 1912c Embrione di *Carcharodon Rondeletii* M. Hle. (?), con particolare disposizione del sacco vitellino. [Embryo of *Carcharodon rondeletii* Müller et Henle (?), with particular disposition of the yolk sac.] *R[egio] Comitato Talassografico Italiano, Memoria* **11**: 1–10, 2 pls.
SOII(2); LS(24) misprinted in the text title as Hb for Hle; SZ(3); LIM.
The *C. rondeletii* Müller et Henle, 1841, is a synonym of *Carcharodon carcharius* (Linnaeus, 1758). (SPRINGER, 1973)
- 1912d Uova di "Sternoptychidae" Gthr. [Eggs of Sternoptychidae Günther.] *R[egio] Comitato Talassografico Italiano, Bollettino Bimestrale* **2** (19): 384–386.
LS not listed; SZ(3) [Pagination] 5 p.; BMD.
- 1913a Larva di *Ichthyococcus ovatus* (Cocco). [Larva of *Ichthyococcus ovatus* (Cocco).] *R[egio] Comitato Talassografico Italiano, Memoria* **27**: 1–6, 1 pl.
SOII(3); LS(25) [Serial number] misprinted (17); SZ(4) cited without code nor pagination; CL [Pagination] 7 p., 1 pl.; LIM; BMD.
This species is effective to be *I. ovatus* Cocco, 1838, replacing *Gonostomus ovatus* Cocco, 1838. (WITZELL, 1973)
- 1913b Stadi post-embriionali di *Vinciguerria attenuata* (Cocco) e *V. Poveriae* (Cocco) Jordan ed Evermann. [Post-embryonic stages of *Vinciguerria attenuata* (Cocco) and *V. poweriae* (Cocco)

Jordan et Evermann.] R[egio] Comitato Talassografico Italiano, Memoria **35**: 1-8, 1 pl.

SOII(4); LS(26); SZ(4) cited without code nor pagination; CL [Text pagination] 7 p.; LIM.

The *V. poveriae* in the text title is misread for *V. poweriae*. (WITZELL, 1973)

- 1914 Stadi larvali di *Chauliodus Sloani* Bl. [Larval stages of *Chauliodus sloani* Bloch.] R[egio] Comitato Talassografico Italiano, Memoria **39**: 1-8, 1 pl.

SOII(5); LS(27); SZ(4) cited without reference code nor pagination; BCM; BMD.

The author of *C. sloani* is Schneider in Bloch *et al.*, 1801, but not Bloch. (MORROW, 1973a).

- 1915a Contributo alla conoscenza degli stadi larvali negli Scopelini Müller (*Bathophilus nigerrinus* Gigl., *Scopelus caninianus* C. e V., *Sc. Humboldti* Risso). [Contribution to the knowledge of larval stages in Scopelini Müller (*Bathophilus niger-rinus* Giglioli, *Scopelus caninianus* Cuvier et Valenciennes, *Scopelus humboldti* Risso).] Atti della R[eale] Accademia dei Lincei [5] Memoria **10 (17)**: 711-738, pls. 1-3.

SOIII(1); LS(28) [Publication date] 1914, which is the business year of the society; SZ not registered; CL [Text pagination] p. 714-720; BCM.

The Scopelini Müller is not accepted as a taxa in current nomenclature. According to LÜTKEN (1892: 287), referred by SANZO (1911: 252, footnote), the taxa was established for a family. It had been treated besides as any other category in the family-group by succeeding researchers. The author of *S. caninianus* is Valenciennes, 1849, in Cuv. Val.; *S. caninianus* and *S. humboldti* (= *Gasteropelecus humboldti* Risso, 1810) are together synonyms of *Myctophum punctatum* Rafinesque, 1810. (KREFFT and BEKKER, 1973)

- 1915b Contributo alla conoscenza dello sviluppo embrionale e post-embriionale degli Scopelini Müller (*Saurus griseus* Lowe, *Chlorophthalmus Agassizii* Bp, *Aulopus filamentosus* Cuv.) [Contribution to the knowledge of embryonic and post-embryonic development of Scopelini Müller (*Saurus griseus* Lowe, *Chlorophthalmus agassizii* Bonaparte, *Aulopus filamentosus* Cuvier).] Atti della R[eale] Accademia dei Lincei [5] Rendiconto **24 (1)**: 460-464.

LS (29) [Serial title] omitted; [Serial division] confused; SZ not cited; CL (Additional references) ; BCM. See Entry [1915f] on the same subject.

For the taxon Scopelini, see Entry [1915a]. The *Saurus griseus* Lowe, 1839, is a synonym of *Synodus saurus* (Linnaeus, 1758), and the author of *Aulopus filamentosus* is Cloquet, 1816, but not Cuvier. (NIELSEN, 1973a, b).

- 1915c Notizie ittologiche. I. Sulle cause determinanti l'approfondimento delle uova di Teleostei in sviluppo. [p. 131-132] II. Stadi larvali di *Stomias boa* Risso. [p. 132] III. Stadi larvali di *Bathophilus nigerrinus* Gigl. [p. 132] IV. *Stylophthalmoides Lobiancoi* e *St. mediterraneus* Mazzarelli sono rispettivamente le forme larvali di *Scopelus caninianus* e *Scopelus Humboldti* [= *Humboldti*]. [p. 133] V. Stadi larvali di *Chauliodus sloani* Bl. [p. 133] [Ichthyological news. I. On the causes determining the scrutiny of teleostean eggs in development. II. Larval stages of *Stomia boa* Risso. III. Larval stages of *Bathophilus nigerrinus* Giglioli. IV. *Stylophthalmoides lobiancoi* and *St. mediterraneus* Mazzarelli are respectively the larval forms of *Scopelus caninianus* and *Scopelus humboldti*. V. Larval stages of *Chauliodus sloani* Bloch.] Monitore Zoologico Italiano, Florence, **26 (5-6)**: 131-133.

SOI(18); LS(30) [Text title] modified with an annotation by the author; SZ not registered; CL [Text pagination] p. 131-144; BMD. This paper includes the five sections with their respective in-text subtitle, above. [Section 2] For the species name in the in-text subtitle, see Entry [1912b]. [Section 4] The nomenclature of the genus is referred later in the Section 4 of our article, below; the *S. lobiancoi* Mazzarelli, 1909, and *S. mediterraneus* Mazzarelli, 1909, are revised as *Myctophum punctum* Rafinesque, 1810, and *Symbolophorus veranyi* (Moreau, 1888) respectively; for the other two species, see Entry [1915a]. (KREFFT and BEKKER, 1973) See Entry [1915d] on the same subject. [Section 5] For the author of *C. sloani*, see Entry [1914a].

- 1915d *Stylophthalmoides Lobiancoi* Mazzarelli e *St. mediterraneus* Mazzarelli, sono le rispettive forme larvali di *Scopelus caninianus* C. V. e *Scopelus Humboldti* Risso. I. *Stylophthalmoides Lobiancoi*

- e forma larvale di *Scopelus caninianus* C. e V. [p. 3–11] II. *Stylophthalmoides mediterraneus* Mazzarelli e forma larvale dello *Sc. Humboldti* Risso. [p. 13–22] [*Styphthalmoides lobiancoi* Mazzarelli and *St. mediterraneus* Mazzarelli are respectively larval forms of *Scopelus caninianus* Cuvier et Valenciennes and *Scopelus humboldti* Risso. I. *Stylophthalmoides lobiancoi* is a larval form of *Scopelus caninianus* Cuvier et Valenciennes. II. *Stylophthalmoides mediterraneus* Mazzarelli is a larval form of *Scopelus humboldti* Risso.] R[egio] Comitato Talassografico Italiano, Memoria **44**: 1–26, 1 pl.
- SOII(6); LS(31); SZ(4) registered without reference code nor pagination; LIM; BMD. This paper includes two sections with their respective in-text subtitle, above.
- The genus *Stylophthalmoides* is not indexed in the Clofnam II. The type species (PAXTON, 1979; ESCHMEYER and BAILEY in ESCHMEYER, 1990) was subsequently designated as *Stylophthalmus lobiancoi* Mazzarelli, 1909, by Tåning, 1932. And this genus is revised (PAXTON, 1972) as a complex of synonyms of *Myctophum* Rafinesque, 1892, and *Symbolophorus* Bolin and Wisner, 1959. For the present synonym status of the two species in text title, see Entry [1915c], and for another taxonomic issue, see the Section 4, below, of our article.
- 1915e Stadi larvali di *Bathophilus nigerrimus* Gigl. [Larval stages of *Bathophilus nigerrimus* Giglioli.] R[egio] Comitato Talassografico Italiano, Memoria **48**: 1–11, 2 pls.
- SOII(7); LS(32); SZ(4) not coded; CL [Text pagination] p. 1–10; LIM; BMD.
- 1915f Contributo alla conoscenza dello sviluppo negli Scopelini Müller (*Saurus griseus* Lowe, *Chlorophthalmus Agassizii* Bp. ed *Aulopus filamentosus* Cuv.) I. Uova, stadi embrionali e post-embrionali di *Saurus griseus* Lowe. [p. 3–14] II. Stadi larvali di *Chlorophthalmus Agassizii* Bp. [p. 14–17] III. Stadi larvali di *Aulopus filamentosus* Cuv. [p. 17–19] [Contribution to the knowledge of development in Scopelini Müller (*Saurus griseus* Lowe, *Chlorophthalmus agassizii* Bonaparte and *Aulopus filamentosus* Cuvier). I. Eggs and embryonic and post-embryonic stages of *Saurus griseus* Lowe. II. Larval stages of *Chlorophthalmus agassizii* Bonaparte. III. Larval stages of *Aulopus filamentosus* Cuvier.] R[egio] Comitato Talassografico Italiano, Memoria **49**: 1–21, 3 figs., pls. 1–3.
- SOII(8); LS(33); SZ(4) without reference code nor pagination; LIM. This paper includes three sections with their respective in-text subtitle, above.
- For the taxon Scopelini, see Entry [1915a]. [Section 1] For the species name in the in-text subtitle, see Entry [1915b]. [Section 3] For the authorship of *A. filamentosus*, see Entry [1915b].
- 1917a Discorso inaugurale del Prof. Luigi Sanzo, Direttore dell'Istituto di Biologia Marina in Messina. [Inaugural address of Prof. Luigi Sanzo, Director of the Istituto di Biologia Marina in Messina.] R[egio] Comitato Talassografico Italiano, Bolletino Bimestrale **6** (39–44): 25–43.
- LS(34) [Publication date] 1916, [Text title] modified with an annotation by the author; SZ(3): BMD.
- 1917b Stadi larvali di *Paralepis hyalina* C. V. [Larval stages of *Paralepis hyalina* Cuvier et Valenciennes.] R[egio] Comitato Talassografico Italiano, Memoria **59**: 1–7, 1 pl.
- SOII(9); LS(35); SZ(6); CL; BCM; BMD.
- The *P. hyalina* Cuvier, 1829, in Cuvier and Valenciennes is a synonym of *Sudis hyalina* Rafinesque, 1810. (Post, 1973)
- 1917c Sviluppo larvali di *Paralepis Rissoi* Bp. [Larval development of *Paralepis rissoi* Bonaparte.] R[egio] Comitato Talassografico Italiano, Memoria **62**: 1–9.
- SOII(10); LS(36); SZ(6); CL [Text pagination] p. 3–9; BCM; BMD.
- The *P. rissoi* Bonaparte, 1840, is revised as *Notolepis rissoi* (Bonaparte). (Post, 1973)
- 1918a Stadi larvali di *P. sphyraenoides* Risso. [Larval stages of *Paralepis sphyraenoides* Risso.] Atti della R[eale] Accademia dei Lincei [5] Rendiconti **27** (12): 450–454, figs. 1–2.
- SOI(22); LS(41); SZ not cited; CL [Authorship] SANZO, L.; GRASSI, B.; BCM. This paper is not a joint work with Grassi, who was the reader of this note presented by SANZO, as usual at the meeting of the day. Issues (semestre) of each volume are independently paginated each other.

The *Paralepis sphyrenoides* Risso, 1820, (= *P. sphyraenoides* of Cuvier, 1829) is revised as *Lestidiops sphyrenoides* (Risso). (Post, 1973)

- 1918b Nuovo contributo alla conoscenza dello sviluppo larvale di *Stomias boa* Risso. [New contribution to the knowledge of larval development of *Stomias boa* Risso.] Atti della R[eale] Accademia dei Lincei [5] Rendiconti **27** (3): 77–82, figs. 1–2.
SOI(20); LS(39); SZ not registered; CL; BCM.
For the species name in the text title, see Entry [1912b].
- 1918c Sviluppo larvale di *Chauliodus Sloani* Bl. [Larval development of *Chauliodus sloani* Bloch.] Atti della R[eale] Accademia dei Lincei [5] Rendiconti **27** (4): 91–97, figs. 1–4.
SOI(21); LS(40); SZ not registered; BCM.
For the species name in the text title, see Entry [1914].
- 1918d Nuovo contributo alla conoscenza dello sviluppo larvale di *Bathophilus nigerrimus* Gigl. [New contribution to the knowledge of larval development of *Bathophilus nigerrimus* Giglioli.] Atti della R[eale] Accademia dei Lincei [5] Rendiconti **27** (11): 379–383.
SOI(19); LS(37); SZ not registered; CL; BCM.
- 1918e Stadi larvali di *Ichthyococcus ovatus* (Cocco). [Larval stages of *Ichthyococcus ovatus* (Cocco).] Atti della R[eale] Accademia dei Lincei [5] Rendiconti **27** (2): 413–415.
LS(38); SZ not registered; BCM.
For the species name in the text title, see Entry [1913a].
- 1918f Uova e larve di *Trachypterus cristatus* Bp. [Eggs and larvae of *Trachypterus cristatus* Bonaparte.] R[egio] Comitato Talassografico Italiano, Memoria **64**: 1–16, 1 pl.
SOII(11); LS(42); SZ(6); CL; BCM; BMD.
The author of the species is Bonelli, 1820, but not Bonaparte (Bp.); the *T. cristatus* Bonelli is revised as *Zu cristatus* (Bonelli). (PALMER, 1973b)
- 1918g Contributo alla conoscenza dello sviluppo post-embrionale negli Scopelini Müller. Nota I. *M. Gemellari* (Cocco). [p. 9–11] Nota II. [without subtitle, but on *M. Dofleini*] [p. 13–16] Nota III. *M. Rafinesquei* (Cocco). [p. 17–18] Nota IV. *M. Rissoi* (Cocco). [p. 19–21] Nota V. *M. Benoiti* (Cocco). [p. 23–25] Nota VI. *M. Benoiti Hygomi* (Lütken) A. Brauer. [p. 27–31] Nota VII. *M. glaciale* (Reinhardt). [p. 33] Nota VIII. *M. Coccoi* Cocco. [p. 35–37] Nota IX. *M. madarense* (Lowe). [p. 39–40] Nota X. *M. elongatum* (Costa). [p. 41–44] Nota XI. *M. alatum* (Goode e Bean). [p. 45–49] Nota XII. *M. crocodilum* (Risso). [p. 51–53] Nota XIII. *M. metopoclampum* (Cocco). [p. 55] [Contribution to the knowledge of post-embryonic development in Scopelini Müller. (with the in-text subtitles Notes I–XIII, as shown as above)] R[egio] Comitato Talassografico Italiano, Memoria **66**: 1–55.
SOII(12); LS(43–54) the Note 13 is omitted; SZ(7) the Note 7 is exclusively registered; CL; BCM; BMD. This paper includes 13 sections, or notes with their respective in-text subtitle, above.
For the taxon Scopelini, see Entry [1915a]. [Note 1] The *M. gemellari* of Bonaparte, 1840 (= *Nyctophus gemellarii* Cocco, 1838) is further revised as *Lobianchia gemellari* (Cocco). [Note 2] The *M. (Lampanyctus) dofleini* Zugmyer, 1811, is revised as *Lobianchia dofleini* (Zugmyer). [Note 3] The *M. rafinesquei* (= *Nyctophum rafinesquei* Cocco, 1838) is revised as *Diaphus rafinesquei* (Cocco). [Note 4] The *M. rissoi* of Täning, 1918 (= *Scopelus rissoi* Cocco, 1829) is revised as *Electrona rissoi* (Cocco). [Note 5] The *M. benoiti* (= *Scopelus benoiti* Cocco, 1838) is revised as *Hygophum benoiti* (Cocco). [Note 6] The *M. (M.) benoiti hygomi* of Brauer, 1906, is a synonym of *Hygophum hygomi* (Lütken, 1892). [Note 7] The *M. glaciale* (= *Scopelus glacialis* Reinhardt, 1837) is revised as *Benthosema glaciale* (Reinhardt). [Note 8] The *M. coccoi* (= *Scopelus coccoi* Cocco, 1829) is revised as *Gonichthys coccoi* (Cocco). [Note 9] The *M. madarense* (= *Scopelus madarensis* Lowe, 1839) is revised as *Ceratoscopelus madarensis* (Lowe). [Note 10] The *M. elongatum* (= *Scopelus elongatus* Costa, 1844) is revised as *Notoscopelus elongatus* (Costa). [Note 11] The *M. alatum* is a synonym of *Lampanyctus alatus* Goode et Bean, 1896. [Note 12] The *M. crocodilum* (= *Gasteropelecus crocodilus* Risso, 1810) is revised as

- Lampanyctus crocodilus* (Risso). [Note 13] The *M. metopoclampus* of Bonaparte, 1840, (= *Nyctophus metopoclampus* Cocco, 1829) is further revised as *Diaphus metopoclampus* (Cocco). (KREFFT and BEKKER, 1973)
- 1919 Contributo alla conoscenza degli stadi larvali di *Orthogoriscus* Bl. [Contribution to the knowledge of the larval stages of *Orthogoriscus* Bloch.] R[egio] Comitato Talassografico Italiano, Memoria **69**: 1-7, 1 pl.
SOII(13); LS(55) [Publication date] misprinted (1939); SZ(7); BCM; BMD.
The genus *Orthogoriscus* Schneider, 1801 (not Bloch) is a synonym of *Mola* Koelreuter, 1770. (TORTONESE, 1973c)
- 1921 Sulla biologia e pesca dei Pesce Spada. [On the biology and fishery of swordfish.] Rendiconto della dodicesima assemblea ordinaria e del convegno dell' Unione Zoologica Italiana in Trieste, 8-12 Settembre 1921. 1 p.
SOI(23); LS(56): SZ not registered. Pagination is not determined on the reprint issue.
- 1922 Uova e larve di *Xiphias gladius* L. [Eggs and larvae of *Xiphias gladius* Linnaeus.] R[egio] Comitato Talassografico Italiano, Memoria **79**: 1-18, pls. 1-2.
LS(57); SZ(4) registered without reference code nor pagination; CL [Pagination] 17 p., 2 pls.; BCM; BMD.
- 1924a Le presunte uova di Macruride sono uova di *Maurolicus hamethystinopunctatus* Cocco. [The presumed eggs of macrurids are those of *Maurolicus amethystinopunctatus* Cocco.] Atti della Società Italiana per il Progresso delle Scienze. Dodicesima Riunione. Catania, Aprile 1923. Parte II: 125-126.
LS(58) [Publication date] 1923; [Text title] modified (*Maurolicus Pennanti*); [Serial issue title] this publication is issued for the reunion in Catania, but not in Pavia; SZ not registered; BMD.
The *M. amethystinopunctatus* [not *hamethystinopunctatus*] Cocco, 1838, is a synonym of *M. meulleri* (Gmelin, 1789) (WITZELL, 1973).
- 1924b Uova e larve di *Argyropelecus Zemigymnus*. [Eggs and larvae of *Argyropelecus hemigymnus*.] Atti della Società Italiana per il Progresso delle Scienze. Dodicesima Riunione. Catania, Aprile 1923. Parte II: 126.
LS(59); SZ not registered; BMD. Original text title is misprinted (*Zemigymnus*).
- 1925a Uova e larve di Alalonga (*Orcynus germo* Ltkn.) [Eggs and larvae of albacore (*Orcynus germo* Lütken).] Atti della R[eale] Accademia Nazionale dei Lincei [6] Rendiconti **1** (3): 131-134.
SOI(24); LS(65); SZ(4); LIM; BCM.
Alalonga is a Sicilian name (PALOMBI and SANTARELLI, 1953) of the albacore.
- 1925b Uova e larve di *Regalecus glesne* Asc. [Eggs and larvae of *Regalecus glesne* Ascanius.] R[egio] Comitato Talassografico Italiano, Memoria **118**: 1-8, 1 pl.
SOII(14); LS(66); SZ not registered; CL [Text pagination] p. 1-7; BCM; BMD.
- 1926a Ricerche biologiche nella Crociera idrografica con la R. Nave Ammiraglio Magnaghi in Mar Rosso. [Biological researches during the hydrographic cruise by the R[oyal] Ship Ammiraglio Magnaghi in the Red Sea.] Atti della Società Italiana per il Progresso delle Scienze, XIV Riunione. Pavia, 24-29 Maggio 1925. p. 516-519.
LS(60); SZ not registered; BMD.
- 1926b Ricerche biologiche nella Crociera idrografica con la R. N. Ammiraglio Magnaghi in Mar Rosso. Uova e larve di Plectognati. [Biological researches during the hydrographic cruise by the R/S Ammiraglio Magnaghi in the Red Sea. Eggs and larvae of Plectognathi.] Atti della Società Italiana per il Progresso delle Scienze, XIV Riunione. Pavia, 24-29 Maggio 1925. p. 519.
LS(61); SZ not registered; BMD.
- 1926c Ricerche biologiche nella Crociera idrografica con la R. N. Ammiraglio Magnaghi in Mar Rosso. Uova e larve di *Echeneis naucrates*. [Biological researches during the hydrographic cruise by the R/S Ammiraglio Magnaghi in the Red Sea. Eggs and larvae of *Echeneis naucrates*.] Atti della Società Italiana per il Progresso delle Scienze. XIV Riunione. Pavia, 24-29

Maggio 1925. p. 519–520.

LS(62); SZ not registered; BMD.

- 1926d Ricerche biologiche nella Crociera idrografica con la R. N. Ammiraglio Magnaghi in Mar Rosso. Uova e larve di *Regalecus gladius* Walb. [Biological researches during the hydrographic cruise by the R/S Ammiraglio Magnaghi in the Red Sea. Eggs and larvae of *Regalecus gladius* Walbaum.] Atti della Società Italiana per il Progresso delle Scienze. XIV Riunione. Pavia, 24–29 Maggio 1925. p. 520–521.

LS(63); SZ not registered, BMD.

The species name in the text title is not easily identified. It may be confused with two species: *Regalecus remipes* of Walbaum, 1792, and *Gymnetrus gladius* Valenciennes, 1835, in Cuv. Val. They are the synonym of *Regalecus glesne* Ascarius, 1772. (PALMER, 1973a) This name is applied in the SPARTÀ's list (Entry No. 63, above), where the original title is rearranged.

- 1926e Ricerche biologiche nella crociera idrografica con la R. N. Ammiraglio Magnaghi in Mar Rosso. Nuovo probabile uovo di Anguilla. [Biological researches during the hydrographic cruise by the R/S Ammiraglio Magnaghi in the Red Sea. Probably new record of an eel egg.] Atti della Società Italiana per il Progresso delle Scienze. XIV Riunione. Pavia, 24–29 Maggio 1925. p. 521.

LS(64); SZ not registered; BMD.

- 1927a Uova e larve di *Echeneis naucrates* (Linn.) Nota preliminare. [Eggs and larvae of *Echeneis naucrates* (Linnaeus). Preliminary note.] R[egio] Comitato Talassografico Italiano, Memoria **133**: 1–5.

SOII(15); LS(69); SZ(5) [Serial number] misread (83); CL [Serial number] misprinted (130); [Text pagination] p. 3–5; BCM; BMD.

The *E. naucrates* Linnaeus, 1758, is a valid species name, but not a revised one. (LACHNER, 1973)

- 1927b Per un maggiore rendimento della Pesca e dell'Industria peschereccia in Italia. I. Reazione negativa del tonno alla luce e suo sfruttamento a beneficio delle nostre tonnare. [For a larger fishery and fisheries industries productivity in Italy. I. Negative reaction of bluefin tuna to the light and its exploitation for the benefit of our tuna-fishing fixed net.] R[egio] Comitato Talassografico Italiano, Memoria 134: 1–11.

LS(68) [Serial issue number] misprinted (CXXIVX); SZ(5) [Serial issue number] misread (84); BCM; BMD.

- 1927c *Xiphias gladius* L. [*Xiphias gladius* Linnaeus.] in Faune et flore de la Méditerranée, Fasc. 7. Paris: Institut Océanographique. 2 p., figs. 1–7.

LS not cited; SZ(5); BCM. This book was published in 1927–1935 on a slip system without pagination; see GERMAIN (1935) for further detail of bibliography.

- 1927d Contributo alla conoscenza di uova e larve di Plectognati. Nota preliminare. [Contribution to the knowledge of eggs and larvae of Plectognathi. Preliminary note.] Bollettino dell'Istituto di Zoologia, Reale Università di Roma, **5**: 123–128.

LS not cited; SZ(5) [Text pagination] 6 p.; BCM; LIM

- 1928a Nuovo tipo di rete planctonica ad apertura e chiusura a momenti voluti. [New model of plankton net for opening and closing at desired moments.] Bollettino della Società Italiana di Biologia Sperimentale **2** (7).

LS(70); SZ not registered. Pagination of this paper is not yet determined. See Entry [1928g] on the same subject.

- 1928b Variazioni di peso specifico di una massa gelatinosa galleggiante di uova di Teleostei. [Variations in specific gravity of a floating gelatinous mass of teleostean eggs.] Bollettino della Società Italiana di Biologia Sperimentale **3** (3): 261–264.

SOI(25); LS(71); SZ(6). See Entry [1029e] on the same subject.

- 1928c Uova, sviluppo embrionale, stadi larvali, post-larvali e giovanili di Sternoptychidae e Stomiidae. Sternoptychidae. I. *Argyropelecus hemigymnus* Cocco. [Eggs, embryonic develop-

- ment, larval, post-larval and juvenile stages of Sternoptychidae and Stomiatidae. Sternoptychidae. I. *Argyropelecus hemigymnus* Cocco.] R[egio] Comitato Talassografico Italiano, Seconda Monografia (1928): 1-83 [including 14p. of plate legend and 1 page of errata], figs. 1-11, pls. 1-7.
 SOIII(8); LS(84); SZ(10) [Pagination] p. 5-68, pls. 1-8; CL [Text pagination] p. 1-68. The series of works starts from the subseries "Sternoptychidae," which was continued to the third paper, Entry [1935], and the subseries "Stomiatidae" was not realized in the series concerned.
- 1928d Uova e larve di *Remora remora* L. [Eggs and larvae of *Remora remora* Linnaeus.] R[egio] Comitato Talassografico Italiano, Memoria **138**: 1-11, 1 pl.
 SOII(16); LS(72); SZ(5); CL [Text pagination] p. 3-11; BCM; BMD.
 The species name shown in the text title is a revised name of *Echeneis remora* Linnaeus, 1758, after Gill, 1863. (LACHNER, 1973)
- 1928e Uova e larve di *Zeus Faber* L. Nota preliminare. [Eggs and larvae of *Zeus faber* Linnaeus. Preliminary note.] R[egio] Comitato Talassografico Italiano, Memoria **139**: 1-4.
 SOII(17); LS(73); SZ(6); BCM; BMD.
- 1928f Contributo alla conoscenza di uova e larve di "*Brama Raji*" Bl. [Contribution to the knowledge of eggs and larvae of *Brama raji* Bloch.] R[egio] Comitato Talassografico Italiano, Memoria **147**: 1-10, 1 pl.
 SOII(18); LS(74); SZ(7) [Text pagination] 8 p.; BCM; BMD.
 The *B. raji* of Bloch and Schneider, 1801, [not of Bloch] (= *Sparus raji* Bloch, 1791) is a synonym of *Brama brama* (Bonnatere, 1788). (MEAD, 1973)
- 1928g Nuovo tipo di rete planktonica in serie ad apertura e chiusura a momenti voluti. [New model of plankton net for sequential collecting by opening and closing at desired moments.] R[egio] Comitato Talassografico Italiano, Memoria **148**: 1-18, pls. 1-3.
 LS(75); SZ not registered; BCM; BMD. See Entry [1928a] on the same subject.
- 1929a Biologia e pesca del Pesce Spada (*Xiphias gladius* L.) [Biology and fishery of swordfish (*Xiphias gladius* Linnaeus).] Atti del Convegno di Biologia Marina Applicata alla Pesca. Messina, Giugno 1928. p. 1-8.
 SOI(26); LS(76) [Publication date] 1928; SZ(8).
- 1929b Biologia dell'anguilla. [Biology of the eel.] Atti del Convegno di Biologia Marina Applicata alla Pesca. Messina, Giugno 1928.
 LS(77); SZ(7) [Text pagination] 16 p.
- 1929c Uova e larve di Tonno ("*Orcynus thynnus* Ltkn.") [Eggs and larvae of bluefin tuna (*Orcynus thynnus* Lütken).] Atti della R [eale] Accademia Nazionale dei Lincei [6] Rendiconti **9** (1): 104-106.
 SOI(27); LS(79); SZ(7); CL; BCM.
 For the species name in the text title, see Entry [1910a].
- 1929d Contributo alla conoscenza delle produzioni scheletriche cutanee nei Teleostei. [Contribution to the knowledge of the cutaneous skeleton production in teleosteans.] Atti del IV Congresso Internazionale di Limnologia Teorica ed Applicata. [Roma, 1929.] p. 547-552.
 SOI(28); LS(80); SZ(8).
- 1929e Peso specifico e sue variazioni in uova galleggianti di Teleostei. I°. Uova racchiuse in massa gelatinosa. [Specific gravity and its variations in teleostean floating eggs. I. Eggs contained in gelatinous mass.] R[egio] Comitato Talassografico Italiano, Memoria **150**: 1-14, figs. 1-2.
 SOII(19); LS(81); SZ(7); BCM; BMD. See Entry [1928b] on the same subject.
- 1929f Nidamento pelagico, uova e larve di "*Thysanoteuthis rhombus*" Troschel. [Pelagic nest materials, eggs and larvae of *Thysanoteuthis rhombus* Troschel.] R[egio] Comitato Talassografico Italiano, Memoria **161**: 1-10, 1 pl.
 SOII(20); LS(82) [Serial issue number] misprinted (CXI); SZ(8) [Text pagination] 9 p.; BCM; BMD.

- 1930a Campagna idrografica nel Mar Rosso della Regia Nave Ammiraglio Magnaghi 1923–24. Ricerche biologiche su materiali raccolti dal Prof. L. Sanzo: Memoria I. Itinerario e stazione biologiche della crociera. Relazione del Prof. Luigi Sanzo. I. Introduzione. [p. 119] II. Itinerario della crociera e stazioni biologiche compiute. [p. 121–127, fig. 1] III. Obbiettivi principali delle ricerche biologiche compiute. [p. 129–139, fig. 2] IV. Quadro di ritrovo delle stazioni biologiche delle annesese tavole IV–V–VI–VII. [p. 141] V. Tabelle dei dati di pesca per le singole stazioni biologiche. [p. 143–164] [Hydrographic cruise in the Red Sea of the Royal Ship Ammiraglio Magnaghi 1923–24. Biological researches on material collected by Prof. L. Sanzo: Memoir I. Itinerary and biological stations of the cruise. Report by Prof. Luigi Sanzo. I. Introduction. II. Itinerary of the cruise and biological stations accomplished. III. Principal objectives of the biological researches accomplished. IV. Summary of the biological stations in the annex tables 4–7. V. Lists of catch data by biological station.] Istituto Idrografico della Regia Marina, Annali Idrografici **11bis**: 117–164, fig. 1, pls. 1–7.
SOIII(2) [Publication date] 1928; LS(78); SZ(6) [Publication date] 1928; [Pagination] 48 p., 2 figs, 4 pls.; BII. This paper includes the five sections with their respective in-text subtitle, above.
- 1930b Campagna idrografica nel Mar Rosso della Regia Nave Ammiraglio Magnaghi 1923–24. Ricerche biologiche su materiali raccolti dal Prof. L. Sanzo: Memoria IV. Contributo alla conoscenza di uova, larve e stadi giovanili in *Echeneis naucrates* Linn. [Hydrographic cruise in the Red Sea by the Royal Ship Ammiraglio Magnaghi 1923–24. Biological researches on material collected by Prof. L. Sanzo: Memoir IV. Contribution to the knowledge of eggs, larvae and juvenile stages in *Echeneis naucrates* Linnaeus.] Istituto Idrografico della Regia Marina, Annali Idrografici **11bis**: 201–211, 1 fig., 1 pl.
LS(67); SZ(5) [Publication date] 1927; [Text pagination] 9 p.; CL; BCM; BII.
- 1930c Campagna idrografica nel Mar Rosso della Regia Nave Ammiraglio Magnaghi 1923–24. Ricerche biologiche su materiali raccolti dal Prof. L. Sanzo: Memoria VII. Plectognati. [Hydrographic cruise in the Red Sea by the Royal Ship Ammiraglio Magnaghi 1923–24. Biological researches on material collected by Prof. L. Sanzo: Memoir VII. Plectognathi.] Istituto Idrografico della Regia Marina, Annali Idrografici **11bis**: 375–459, + 14 p., figs. 1–21, 8 pls. [including one title page of the plates] .
SOIII(2) [Publication date] 1929; LS not listed; SZ(8) [Publication date] 1929; [Text pagination] 95 p.
- 1930d Ricerche biologiche su materiali raccolti dal Prof. L. Sanzo nella Campagna idrografica nel Mar Rosso della R. N. Ammiraglio Magnaghi 1923–1924. “Plectognati”. [Biological research on material collected by Prof. L. Sanzo during the hydrographic cruise in the Red Sea of the R /S Ammiraglio Magnaghi 1923–1924. Plectognathi.] R[egio] Comitato Talassografico Italiano, Memoria **167**: 1–126, pls. 1–7.
LS(83) [Publication date] 1929; [Text title] apparently confused with Entry [1930c]; [Serial issue number] misprinted (CLXXVII); SZ not registered; BCM; BMD.
- 1930e Giovanissimo stadio larvale di *Xiphias gladius* L. di mm 6,4. [Earliest larval stage of *Xiphias gladius* Linnaeus, 6.4 mm long.] R[egio] Comitato Talassografico Italiano, Memoria **170**: 1–9, 1 pl.
LS not cited; SZ(9) [Text pagination] 8 p.; CL [Pagination] 8 p., 3 figs. (the 3 figures are drawn on the plate mentioned above); BCM; BMD. See Entry [1930i] on the same subject.
- 1930f Uova e larve di *Mugil cephalus* Cuv. ottenute per fecondazione artificiale (Nota Preventiva). [Eggs and larvae of *Mugil cephalus* Cuvier, obtained by artificial fecondation (Preventive Note).] R[egio] Comitato Talassografico Italiano, Memoria **179**: 1–5.
SOII(21); LS(85) [Serial issue number] misprinted (CXXIX); SZ(9) ; BCM; BMD.
The authorship of *M. cephalus* is Linnaeus, 1758, but not Cuvier, 1817 (part.) or 1829, and the species is revised as *M. cephalus cephalus* (Linnaeus). (TREWAVAS, 1973)
- 1930g Uova, sviluppo embrionale, stadi larvali, post-larvali e giovanili di Sternoptychidae e

- Stomiidae. Sternoptychidae. 2. *Ichthyococcus ovatus* Cocco. [Eggs, embryonic development and larval, post-larval and juvenile stages of Sternoptychidae and Stomiidae. Sternoptychidae. 2. *Ichthyococcus ovatus* Cocco.] R[egio] Comitato Talassografico Italiano, Seconda Monografia (1930): 69–119, fig. 12, pls. 8–9.
 SOIII(9); LS(90); SZ(9) [Publication date] 1931; [Text pagination] p. 73–114; CL [Text pagination] p. 71–119. See an annotation in Entry [1928c] on the series title.
- 1930h Attività scientifica dell'Istituto Centrale di Biologia marina in Messina. in Relazione sull'attività del R. Comitato Talassografico nell'esercizio 1928–29. [Scientific activities of the Istituto Centrale di Biologia Marina in Messina. in Report on the activity of the Regio Comitato Talassografico in the execution 1928–1929.] Bollettino del Consiglio Nazionale delle Ricerche **19**: 10–15.
 SOI(29); LS(86) [Serial issue number] not cited; SZ not registered
- 1930i Giovanissima larva di *Xiphias gladius* L., lunga mm 6,40. [Earliest larva of *Xiphias gladius* Linnaeus, 6.40 mm long.] Bollettino di Zoologia, Napoli, **1** (1): 31.
 SOI(30); LS(87); SZ not registered; BCM. See Entry [1930e] on the same subject.
- 1930j Contributo alla conoscenza dello sviluppo nei Carancidi—*Seriola Dumerilii* Risso. [Contribution to the knowledge of development in Carangidae. *Seriola dumerilii* Risso.] Bollettino di Zoologia, Naples, **1** (1): 33–34.
 SOI(31); LS(88); SZ(8); CL; BCM.
 The Carancidi in the text title is read as Carangidi (PALOMBI and SANTARELLI, 1953); the *S. dumerilii* (= *Caranx dumerili* Risso, 1810) is revised as *S. dumerili* (Risso). (HUREAU and TORTONESE, 1973)
- 1930k Peso specifico in uova di *Exocoetus* e portata biologica dei filamenti di attacco di esse uova e corpi solidi galleggianti. [Specific gravity in eggs of the *Exocoetus*, and biological importance of the binding filaments of its eggs and floating solid bodies.] Bollettino della Società Italiana di Biologia Sperimentale **5** (6): 1–2.
 SOI(32) [Text title] misprinted (EVOCOETUS); LS(89); SZ(8).
- 1931a Uova, stadi embrionali e post-embrionali di *Naucrates ductor* L. [Eggs and embryonic and post-embryonic stages of *Naucrates ductor* Linnaeus.] R[egio] Comitato Talassografico Italiano, Memoria **185**: 1–16, 1 pl.
 SOII(22); LS(91); SZ(9); CL [Text pagination] p. 1–14; BCM; BMD.
 The originally designated name of this species is *Gasterosteus ductor* Linnaeus, 1758, which was revised as *Naucrates ductor* (Linnaeus) after Cuvier, 1832. (HUREAU and TORTONESE, 1973)
- 1931b Azione dell'acqua marina sulla fermentazione alcoolica. [Action of seawater on alcoholic fermentation.] Atti della R[eale] Accademia Nazionale dei Lincei [6] Rendiconti **13** (2): 140–143.
 LS(99); SZ(S & P); BCM. This article is a joint work as the senior author with F. PIRRONE.
- 1931c Acqua di mare irradiata con raggi ultravioletti e sua azione sulla velocità della fermentazione alcoolica di soluzioni di glucosio. [Seawater irradiated with ultraviolet rays and its action on the velocity of the alcoholic fermentation of glucose solutions.] Atti della R[eale] Accademia Nazionale dei Lincei [6] Rendiconti **13** (8): 613–617.
 LS(98); SZ(S & P); BCM. This article is a joint work as the senior author with F. PIRRONE.
- 1931d Uova e primi stadi larvali di «*Myctophum Gemellari*» Cocco (= «*Scopelus Gemellari*» C. e V.). [Eggs and early larval stages of *Myctophum gemellari* Cocco (= *Scopelus gemellari* Cuvier et Valenciennes).] Atti della R[eale] Accademia Nazionale dei Lincei, [6] Rendiconti **14** (2): 515–519, figs. 1–3.
 SOI(34); LS(94); SZ not registered; BCM.
 The *S. gemellari* of Valenciennes, 1849, in Cuv. Val. is a junior synonym of *M. gemellari* of Bonaparte, 1840. For further details, see the annotation on Entry [1918g (Note I)]
- 1931e Sottordine: Salmonoidei. in Uova, larve e stadi giovanili di Teleostei. Monografia elaborata con l'uso del materiale raccolto e seriato da Salvatore Lo Bianco. [Suborder: Salmonoidei. in

Eggs, larvae and juvenile stages of Teleostei. Monographs elaborated by the use of the material collected and seriated by Salvatore Lo Bianco.] *Fauna e flora del Golfo di Napoli*, Monografia **38** (1931): 21–42, figs. 24–32, pls. 2–3 [with 4 pages of plate legend].

SOIII(5); LS(92); SZ not registered (but deposited in the Library of the Station); CL [Pagination] p. 21–92, figs. 31–58, pls. 2–7; LIM. The works in this and the next entry are published independently each other. This Monographs were reprinted as a book in two parts in 1956 by the Stazione Zoologica Anton Dohrn Napoli with the aid of the UNESCO. For this monograph, an English edition (Code No. TT68–50356) was published in 1969 by the Israel Program for Scientific Translation.

- 1931f Sottordine: Stomiatoidei. in Uova, larve e stadi giovanili di Teleostei. Monografia elaborata con l'uso del materiale raccolto e seriato da Salvatore Lo Bianco. [Suborder: Stomiatoidei. in Eggs, larvae and juvenile stages of Teleostei. Monographs elaborated by the use of the material collected and seriated by Salvatore Lo Bianco.] *Fauna e flora del Golfo di Napoli*, Monografia **38** (1931): 42–92, figs. 33–58, pls. 4–7 [with 8 pages of plate legend].

SOIII(5); LS(92); SZ not registered. See also an annotation for Entry [1931e].

- 1931g Si riproduce l'«*Anguilla vulgaris*» nel Mediterraneo? [Does *Anguilla vulgaris* reproduce itself in the Mediterranean?] VIIème Congrès International d'Aquaculture et de Pêche. Paris. 1931. 8 p.

SOI(33); LS(93); SZ not registered; LIM. This paper is included in: Rapports sur les questions mises à l'ordre du jour par la Commission Internationale d'Organisation du Congrès. Groupe II. Pêches fluviales. Section N° 1. Etude scientifique des eaux douces. Question No 18. Anguille. Reprint issue, SOI(33), shows "Groupe I," being misprinted for Groupe II, above.

The *A. vulgaris* Shaw, 1803, is a subjective synonym of *Muraena anguilla* Linnaeus, 1758, and revised as *Anguilla anguilla* (Linnaeus). (BLACHE, BAUCHOT and SALDANHA, 1973a)

- 1931h Nuovo metodo di colorazione della cartilagine impiegato nello studio della composizione scheletrica del cranio nei Teleostei, [New method of the cartilage coloration used in the skeletal composition study of the teleostean cranium.] *Bollettino della Società Italiana di Biologia Sperimentale* **6** (4): 1–2.

SOI (35); LS(95); SZ(9) [Text pagination] 2 p.

- 1931i Uova e larve di *Zeus faber* L. [Eggs and larvae of *Zeus faber* Linnaeus.] *Archivio Zoologico Italiano*, Naples, **15**: 475–483, pl. 5.

SOI(36); LS(96); SZ(10).

- 1932a Nuovo contributo alla conoscenza delle uova e primi stadi larvali negli Scomberoidi. [New contribution to the knowledge of eggs and early larval stages in Scombroidei.] *Bollettino di Zoologia*, Naples, **3** (1–2): 69–72.

SOI(37); LS(100); SZ not registered; CL [Publication date] 1931; BCM.

For the suborder name in the text title, see Entry [1909b, 1910b, d] on a similar subject.

- 1932b Uova e primi stadi larvali di *Tracurus mediterraneus*. [Eggs and early larval stages of *Trachurus mediterraneus*.] *Bollettino di Zoologia*, Napoli, **3** (1–2): 73.

SOI(39) [Text title] misprinted (*Tracurus*); LS(102) [Text title] misprinted (...stadi di...); SZ not registered; CL; BCM.

The *T. mediterraneus* of Lütken, 1880 (= *Caranx trachurus* var. *mediterraneus* Steindachner, 1869) is revised as *T. mediterraneus mediterraneus* (Steindachner). (HUREAU and TORTONESE, 1973)

- 1932c Uova e primi stadi larvali di Mugilidi. [Eggs and early larval stages of Mugilidae.] *Bollettino di Zoologia*, Naples, **3** (1–2): 75–77.

SOI(40); LS(103); SZ not registered; BCM.

- 1932d Uova e larve di *Gonostoma denudatum* Raf. [Eggs and larvae of *Gonostoma denudatum* Rafinesque.] *Bollettino di Zoologia*, Naples, **3** (1–2): 79–80.

SOI(38); LS(101); SZ not registered; BCM.

- 1932e Uova e primi stadi larvali di *Pelamys sarda* C. V. [Eggs and early larval stages of *Pelamys sarda* Cuvier et Valenciennes.] R[egio] Comitato Talassografico Italiano, Memoria **188**: 1–10, 1 pl.
 SOII(23); LS(97) [Publication date] misprinted (1931); [Text title] misprinted (*Pelamis*); SZ not registered; CL (Suppl '78) [Text pagination] p. 1–9; BCM; BMD.
 For the species name in the text title, see Entry [1910b]. The genus *Pelamis* (Plumier) Lacepède, 1802, non valid, is a synonym of the Crangid genus *Oligoplites* Gill, 1863. (JORDAN, 1963; GOLVAN, 1965)
- 1932f Uova e primi stadi larvali di Tonno (*Orcynus thynnus* Ltkn.) [Eggs and early larval stages of bluefin tuna (*Orcynus thynnus* Lütken).] R[egio] Comitato Talassografico Italiano, Memoria **189**: 1–16, 1 pl.
 SOII(24); LS(104); SZ not registered; BCM; BMD.
 For the species name in the text title, see Entry [1910a].
- 1932g Uova, stadi larvali e giovanili di *Centrolophus Pompilus* C. V. [Eggs and larval and juvenile stages of *Centrolophus pompilus* Cuvier et Valenciennes.] R[egio] Comitato Talassografico Italiano, Memoria **196**: 1–16, 1 pl.
 SOII(25); LS(105); SZ not registered; CL [Illustration] 12 figs.; BCM; BMD. The plate includes 12 figures.
 The *C. pompilus* Cuvier, 1833, in Cuvier and Valenciennes is a synonym of *Centrolophus niger* (Gmelin, 1789). (HAEDRICH, 1973)
- 1932h Famiglia 2: Macruridae. in Uova, larve e stadi giovanili di Teleostei... [Family 2: Macrouridae. in Eggs, larvae and juvenile stages of Teleostei...] Fauna e flora del Golfo di Napoli, Monografia **38** (1932): 255–263, figs. 227–230, pl. 16 with 2 pages of plate legend.
 SOIII(6); LS(113); SZ not registered; CL [Publication date] 1933; LIM. For the full text title and a related bibliographic annotation, see Entry [1931f].
 The type genus is *Macrourus* Bloch, 1786, which has often been spelled as *Macrurus*. In this paper are referred the following 3 species (SPARTÀ, 1941): (i) *Hymenocephalus italicus* Giglioli, 1884; (ii) *Macrourus coelorhynchus* of Bonaparte, 1831–1841 (= *Lepidoleprus coelorhynchus* Risso, 1910), that is revised as *Coelorhynchus coelorhynchus* (Risso); (iii) *Macrourus sclerorhynchus* Valenciennes, 1838, in Webb and Berthelot, 1837–1844, that is revised as *Nezumia sclerorhynchus* (Valenciennes). (MARSHALL, 1973)
- 1933a Uova e primi stadi larvali di Alalonga (*Orcynus germo* Ltkn.) [Eggs and early larval stages of albacore (*Orcynus germo* Lütken).] R[egio] Comitato Talassografico Italiano, Memoria **198**: 1–10, 1 pl.
 SOII(26); LS(106); SZ not registered; BCM; BMD.
 For the species name in the text title, see Entry [1910b (Section III)].
- 1933b Uova, larve e stadi giovanili di *Seriola Dumerilii* Risso. [Eggs, larvae and juvenile stages of *Seriola dumerilii* Risso.] R[egio] Comitato Talassografico Italiano, Memoria **205**: 1–14, 1 pl.
 SOII(27); LS(107); SZ not registered; CL [Text pagination] p. 1–12; BCM; BMD.
 For the species name in the text title, see Entry [1930j].
- 1934 Uova, stadi larvali e giovanili di *Dactylopterus volitans* L. [Eggs, larval and juvenile stages of *Dactylopterus volitans* Linnaeus.] R[egio] Comitato Talassografico Italiano, Memoria **207**: 1–26, 1 pl.
 SOII(28); LS(109) [Publication date] 1933; SZ not registered; CL [Publication date] 1933; [Ex-text elements] 1 pl. n. num., 22 figs.; BCM; BMD. The plate includes 22 figures.
 The *D. volitans* of Swainson, 1839 (= *Trigla volitans* Linnaeus, 1758) is revised as *Cephalacanthus volitans* (Linnaeus). (MONOD, 1973)
- 1935 Uova, sviluppo embrionale, stadi larvali, post-larvali e giovanili di Sternoptychidae e Stomiatidae. Sternoptychidae. 3. *Maurolicus pennanti* (Walb.) [Eggs, embryonic development and larval, post-larval and juvenile stages of Sternoptychidae and Stomiatidae. Sternoptychidae.

chidae. 3. *Maurolicus pennanti* (Walbaum).] R[egio] Comitato Talassografico Italiano, Seconda Monografia (1935): 121–181, figs. 13–16, pls. 10–12.

SOIII(10); LS(111) [Publication date] 1933; SZ(10) [Text pagination] p. 123–181; CL [Text pagination] p. 123–180. For the series title of this work, see the annotation of Entry [1928c].

The author of *M. pennanti* is Day, 1880–1884, which was not cited by Walbaum. (WITZELL, 1973).

For this species name, see also Entry [1923a]

1936a Le uova dei Teleostei marini (Considerazioni generali). [The eggs of marine teleosteans (General considerations).] Atti della Società Italiana per il Progresso delle Scienze 4: 1–16.

SOI(42); LS(112); SZ not registered; BMD. On p. 2 (back of the title page) of the reprint, SOI(42), the following description is given: Relazione presentate in occasione alla XXIV Riunione della S. I. P. S., Palermo, 12–18 ottobre 1935–XIII [XIV], ed estratta dagli "Atti" della Società (Vol. 4°).

1936b Allevamento di una larva pelagica di «*Cerianthus*» fino all'acquisto di caratteri definitivi. Nota preliminare. [Culture of a pelagic larva of the *Cerianthus* up to the acquisition of definitive characters. Preliminary note.] Atti della R[eale] Accademia Nazionale dei Lincei [6] Rendiconti 24 (7–8): 227–231, figs. 1–3.

SOI(43); LS not enlisted; SZ(10); BCM.

1936c Contributi alla conoscenza dello sviluppo embrionario e post-embrionario nei Mugilidi. I. Uova e larve di *Mugil cephalus* Cuv. ottenute per fecondazione artificiale. [p. 3–6] II. Uova e larve di *Mugil chelo* Cuv. [p. 7–11] [Contributions to the knowledge of the embryonic and post-embryonic development in mugilids. I. Eggs and larvae of *Mugil cephalus* Cuvier obtained by artificial fecondation. II. Eggs and larvae of *Mugil chelo* Cuvier.] R[eale] Comitato Talassografico Italiano, Memoria 230: 1–14, pls. 1–2.

LS(110) [Publication date and serial issue title] not cited; SZ(10) [Text pagination] 12 p.; CL [Text pagination] 11 p.; BCM; BMD. This paper includes 2 sections with their respective in-text subtitle, above.

For the nomenclature of *M. cephalus*, see Entry [1930f]; the *M. chelo* Cuvier, 1829, is a synonym of *Chelon labrosus* (Risso, 1826). (TREWAVAS, 1973)

1937a Colonia pelagica di uova di Chetognati (*Spadella draco* Krohn). [Pelagic egg colony of a chaetognath (*Spadella draco* Krohn).] R[egio] Comitato Talassografico Italiano, Memoria 239: 1–8, 1 pl.

SOII(30); LS(114); SZ(10) [Text pagination] 7 p.; BCM; BMD.

1937b Uova e larve di *Mugil labeo* Cuv. [Eggs and larvae of *Mugil labeo* Cuvier.] Bollettino di Pesca, di Piscicoltura e di Idrobiologia, Rome, 13 (5): 506–510.

SOI(44) [Pagination] p. 1–7, including a title page sheet; LS(115); SZ not registered; CL; BCM.

See also Entry [1938a] on the same subject.

The *M. labeo* Cuvier, 1829, is revised as *Oedalechilus labeo* (Cuvier). (TREWAVAS, 1973)

1938a Uova e larve di *Mugil labeo* Cuv. [Eggs and larvae of *Mugil labeo* Cuvier.] Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée, Rapports et Procès-Verbaux des Réunions 11 [n. s.]: 73–76.

SOI(41); LS(108) [Publication date] not given; SZ not registered; CL; LIM.

For the species name in the text title, see Entry [1937b].

1938b Uova, stadi embrionali, prelarve e larve di *Saurenhelys cancrivora* Peters. [Eggs, embryonic stages, prelarvae and larvae of *Saurenhelys cancrivora* Peters.] R[egio] Comitato Talassografico Italiano, Memoria 249: 1–12, 1 pl.

SOII(31); LS(116) [Serial issue number] misprinted (CCLXXX); SZ not registered; CL [Pagination] 10 p., 12 figs.; BCM; BMD. The plate includes 12 figures.

1938c Uova ovariche mature e sviluppo larvale di *Aulopus filamentosus* Cuv. [Ripe ovarian eggs and larval development of *Aulopus filamentosus* Cuvier.] R[egio] Comitato Talassografico Italiano, Memoria 254: 1–8, 1 pl.

- SOII(32); LS(117) [Serial issue number] not given; SZ not registered; BCM; BMD.
For the species name in the text title, see Entry [1915b].
- 1939a Uova e larve di *Smaris insidiator* C. V. [Eggs and larvae of *Smaris insidiator* Cuvier et Valenciennes.] R[egio] Comitato Talassografico Italiano, Memoria **262**: 1-10, 1 pl.
SOII(33); LS(118); SZ not registered; CL [Text pagination] p. 1-8; BCM; BMD.
The *S. insidiator* Valenciennes, 1830, in Cuv. Val. is a synonym of *Centracanthus cirrus* Rafinesque, 1810. (TORTONESE, SERTORIO and BAUCHOT, 1973)
- 1939b Osservazioni biologiche sullo sviluppo di una larva pelagica di *Cerianthus*, potuta allevare fino all'acquisto dei caratteri definitivi e sul destino dei tentacoli isolati dal corpo. [Biological observations on the development of a pelagic larva of *Cerianthus*, which can be cultured up to the acquisition of definitive characters, and on the destiny of the tentacles isolated from the body.] R[egio] Comitato Talassografico Italiano, Memoria **266**: 1-12, 1 pl.
SOII(34); LS(119) [Serial issue number] misprinted (LCC); SZ not registered; BMD.
- 1939c Nuovo contributo alla conoscenza dello sviluppo di *Myctophum Rissoi* (Cocco). [New contribution to the knowledge of the development of *Myctophum rissoi* (Cocco).] Atti della Accademia Gioenia di Scienze Naturali in Catania [6] 3, Memoria **25**: 1-8, 1 pl.
SOIII(4); LS(120); SZ not registered; BCM. The "Memoria" number is simply the code number for papers in the issue, but the pagination is made by Memoria.
For the species name in the text title, see Entry [1918g (Note IV)].
- 1939d Rarissimi stadi larvali di Teleostei (*Lophotes cepedianus* Giorna; ...; *Balistes capriscus* L.) Nota I. *Lophotes cepedianus* Giorna. [p. 121-129] Nota II. *Eretmophorus Kleinbergi* Gigl. [p. 131-134] Nota III. *Ichthyococcus ovatus* Cocco. [p. 135-137] Nota IV. *Dactylopterus vo[l]itans* L. [p. 139-142] Nota V. *Orthogoriscus mola* Linn. [p. 143-146] Nota VI. *Balistes capriscus* L. [p. 147-149] [Very rare larval stages of teleosteans (...)] Note I. *Lophotes cepedianus* Giorna. Note II. *Eretmophorus kleinbergi* Giglioli. Note III. *Ichthyococcus ovatus* Cocco. Note IV. *Dactylopterus volitans* Linnaeus. Note aeus.] Archivio Zoologico Italiano, Naples, **26**: 121-151, pls. 6-7.
V. *Orthogoriscus mola* Linnaeus. Note VI. *Balistes capriscus* Linn.
SOI(45); LS(121); SZ(10) [Pagination] misread on the beginning page (p. 10); CL; BCM. The number 10 on the beginning page is a folder number for bookbinding. This paper includes six sections with respective in-text subtitle, above. The main text title gives at its end (in parentheses) the sum of these subtitles, which is abridged here, as shown as above.
[Note 1] The genus *Lophotes* Bosc, 1817, is a synonym of *Lophotus* Giorna, 1809; the *Lophotes cepedianus* of Valenciennes, 1845 in Cuv. Val. (= *Lophotus cepedianus* Cloquet, 1823) is a synonym of *Lophotus lacepedei* Giorna, 1809. (PALMER, 1973c) [Note 3] For the species name in the text title, see Entry [1913a]. [Note 4] For the species name in the text title, misprinted (*voitans*), see Entry [1933c] on further details. [Note 5] For the genus name in the text title, see Entry [1919]; the *O. mola* of Costa, 1850 (= *Tetraodon mola* Linnaeus, 1758) is revised as *Mola mola* (Linnaeus). (TORTONESE, 1973c) [Note 6] The *B. capriscus* Gmelin, 1789, in Linnaeus is a synonym of *Balistes carolinensis* Gmelin, 1789. (TORTONESE, 1973b)
- 1939e La schiusa delle uova nei Teleostei. [Hatching of teleostean eggs.] Atti del 2° Convegno di Biologia marina e sue applicazioni alla pesca, tenuto in Messina nei giorni 30 maggio-1 giugno 1939. 6 p.
SOI(46); LS(122); SZ not registered.
- 1940a Uova e larva appena schiusa di *Lophotes cepedianus* (Giorna). [Eggs and just hatched larva of *Lophotes cepedianus* (Giorna).] R[egio] Comitato Talassografico Italiano, Memoria **272**: 1-8, 1 pl.
SOII(35); LS(123); SZ not registered; CL [Text pagination] p. 1-6; BMD.
For the genus and species names in the text title, see Entry [1939d (Note D)]
- 1940b Sviluppo embrionale e larva appena schiusa di *Scomberesox saurus* (Flem.) [Embryonic development and just hatched larva of *Scomberesox saurus* (Fleming).] R[egio] Comitato

grafico Italiano, Memoria **276**: 1–8, 1 pl.

SOII(36); LS(124); SZ not registered; CL [Taxonomic authorship] rearranged (Walb.) by the editors; [Pagination] p. 1–6, 8 figs.; BMD. The plate includes 8 figures.

The authorship of the *S. saurus* is Walbaum, 1792, but not Fleming; the *Esox saurus* Walbaum, 1792, was revised as mentioned above by Fries, Ekström and Sundevall, 1893. (PARIN, 1973)

1940c Divisione: Zeomorphi Regan. in Uova, larve e stadi giovanili di Teleostei... [Division: Zeomorphi Regan. in Eggs, larvae and juvenile stages of teleosteans...] Fauna e flora del Golfo di Napoli, Monografia **38** (1940): 461–470, figs. 287–295, pl. 36 [with 2 pages of plate legend].

SOIII(7); LS(125); SZ not registered; CL [Publication date] 1956; [ex-text element] pl. 34; LIM.

See also a bibliographic annotation on this monograph in Entry [1931e].

The Zeomorphi is an order name proposed by Regan, 1910. (BERG, 1947)

Table 1. Scope of research subjects (Subjects) treated in Sanzo's 122 contributions (Contributions) that were issued during the period from 1900 to 1940. Contributions: for detail of entry code, see text; figures in parentheses, number of in-test subtitles in the article concerned; figures in brackets, sum of articles in each subject. Others in the column Subject: ICBM, Ist. Cent. Biol. Mar. Messina.

Subjects	Contributions
Chemistry	
Organic chemistry	1931b, c [2]
General zoology	
Physiology:	
Invertebrates	1903a, b, 1907a [3]
Vertebrates	1900, 1907b, c [3]
Embryology	1904a [1]
Early life history:	
Invertebrates	1929f, 1937a [2]
Technique invention:	
Microscopy	1904b [1]
Embryology	1905d, 1936b, 1939b [3]
Histology	1905d, f [2]
Planktology	1928a, g [2]
Pathology:	
Invertebrates	1905c [1]
Ichthyology	
Early life history/ Cruise report	1905b, e, 1909a,b, 1910b(3), c, d, 1912b, c, d, 1913a, b, 1914, 1915a, b, c(5), 1915d(2), e, f(3), 1917b, c, 1918a, b, c, d, e, f, g(13), 1919, 1922, 1924a, b, 1925a, b, 1926b, c, d, e, 1927a, d, 1928c, d, e, f, 1929c, 1930b, c, d, e, f, 1930g, i, j, 1931a, d, e, f, g, i, 1932a, b, c, d, e, f, g, h, 1933a, b, 1934, 1935, 1936a, c(2), 1937a, b, 1938a, b, c, 1939a, c, d(6), e, 1940a, b, c [85]
Physiology	1928b, 1929e, 1930k [3]
Morphology	1911, 1912a, 1929d [3]
Biology & fishery	1910a(3), 1921, 1927b, c, 1929a, b [6]
Technique invention	1931h [1]
Others	
Cruise project	1926a, 1930a [2]
ICBM	1917a, 1930h [2]

Table 2. Higher taxa (Names) referred in the text titles of Sanzo's 33 contributions (Contributions) on marine fishes. Contributions: for detail on entry codes, see text. Remarks: name in *italic*, original shown in text title(s). For SPARTÀ (1941) see also entries concerned.

Names	Contributions	Remarks
Selachii	1905e (yolk sac disposition)	<i>Selacide</i> [?!=Selacei; cf. PALOMBI and SANTARELLI, 1953]
Teleostei	1915c (egg development), 1928b (specific gravity of eggs), 1929d (cutaneous skeleton), e (specific gravity of eggs), 1936a (eggs in general), 1939d (rare records of larvae), 1939e (hatching)	
Carangidae	1930j	
Macrouridae	1932h	<i>Macruridae</i> ; cf. SPARTÀ (1941)
Mugilidae	1932c, 1936c	
Muraenidae	1905b	<i>Murenoidi</i> ; for detail, see annotation for this entry
Plectognathi	1926b, 1927d, 1930c, d	
Salmonoidei	1931e	
Scombroidei	1909b, 1910b, d, 1932a	<i>Scomberoidi</i>
Scopelini	1915a, b, f, 1918g	
Sternoptychidae	1912d, 1928c, 1930g, 1935	
Stomiidae	1928c, 1930g, 1935	[not referred in text of any entry]
Stomiatoidei	1931f	
Zeomorphi	1940c	

Table 3. Species (Names) referred in the text title and/or in-text subtitle of Sanzo's 76 contributions (Contributions) on marine fishes. Contributions: for detail on entry codes, see text; when the names are cited only in the in-text subtitle, related entry code is shown in *italic*. Remarks: Clofnam references; figures in parentheses, chapter number in the Clofnam, I (HUREAU and MONOD, 1973).

Names	Contributions	Remarks
<i>Anguilla anguilla</i>	1926e, 1929b, 1931g	BLACHE, BAUCHOT and SALDANHA (71)
<i>Argyropelecus hemigymnus</i>	1924b, 1928c	BAIRD (38)
<i>Aulopus filamentosus</i>	1915b, f, 1938c	NIELSEN (50)
<i>Auxis bisus</i> (= <i>Auxis rochei</i>)	1909a	POSTEL (157)
<i>Balistes capriscus</i> (= <i>Balistes carolinensis</i>)	1939d	TORTONESE (201)
<i>Bathophilus nigerrinus</i>	1915a, c, e, 1918d	MORROW (42)
<i>Brama raji</i> (= <i>Brama brama</i>)	1928f	MEAD (133)
<i>Carcharodon rondeletii</i> (= <i>Carcharodon carcharias</i>)	1912c	SPRINGER (7)
<i>Centrolophus pompilus</i> (= <i>Centrolophus niger</i>)	1932g	HAEDRICH (176)
<i>Chauliodus sloani</i>	1914, 1915c, 1918c	MORROW (40)
<i>Chlorophthalmus agassizi</i>	1915b, f	NIELSEN (55)
<i>Dactylopterus volitans</i> (= <i>Cephalacanthus volitans</i>)	1934, 1939d	MONOD (193)
<i>Echeneis naucrates</i>	1926c, 1927a, 1930b	LACHNER (200)
<i>Eretmophorus kleinbergi</i>	1939d	COHEN (103)
<i>Exocoetus</i> sp.	1930k	PARIN (92)

Names	Contributions	Remarks
<i>Gobius</i> spp.	1911	17 spp.; MILLER (162)
<i>Gonostoma denudatum</i>	1912a, 1932d	WITZELL (37)
<i>Ichthyococcus ovatus</i>	1913a, 1918e, 1930g, 1939d	WITZELL (37)
<i>Lophotes cepedianus</i> (= <i>Lophotus lacepedei</i>)	1939d, 1940a	PALMER (109)
<i>Maurolicus amethystinopunctatus</i> (= <i>Maurolicus muelleri</i>)	1924a	WITZELL (37)
<i>Maurolicus pennanti</i> (= <i>Maurolicus muelleri</i>)	1935	WITZELL (37)
<i>Mugil cephalus</i> (= <i>Mugil cephalus cephalus</i>)	1930f, 1936c	TREWAVAS (181)
<i>Mugil chelo</i> (= <i>Chelon labrosus</i>)	1936c	TREWAVAS (181)
<i>Mugil labeo</i> (= <i>Oedalechilus labeo</i>)	1937b, 1938a	TREWAVAS (181)
<i>Myctophum alatum</i> (= <i>Lampanyctus alatus</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum benoiti</i> (= <i>Hygophum benoiti</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum benoiti hygomi</i> (= <i>Hygophum hygomi</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum coccoi</i> (= <i>Gonichthys coccoi</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum crocodilum</i> (= <i>Lampanyctus crocodilus</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum dofleini</i> (= <i>Lobianchia dofleini</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum elongatum</i> (= <i>Notoscopelus elongatus</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum gemellari</i> (= <i>Lobianchia gemellari</i>)	1918g, 1931d	KREFFT and BEKKER (58)
<i>Myctophum glaciale</i> (= <i>Benthoema glaciale</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum madarense</i> (= <i>Ceratoscopelus madarensis</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum metopoclampus</i> (= <i>Diaphus metopoclampus</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum rafinesquei</i> (= <i>Diaphus rafinesquei</i>)	1918g	KREFFT and BEKKER (58)
<i>Myctophum rissoi</i> (= <i>Electrona rissoi</i>)	1918g, 1939c	KREFFT and BEKKER (58)
<i>Naucrates ductor</i>	1931a	HUREAU and TORTONESE (131)
<i>Orcynus germo</i> (= <i>Thynnus (Germo) alalunga</i>)	1910b, 1925a, 1933a	POSTEL (157)
<i>Orcynus thynnus</i> (= <i>Thunnus (Thunnus) thynnus</i>)	1910a, b, 1927b, 1929c, 1932f	POSTEL (157)
<i>Orthogoriscus mola</i> (= <i>Mola mola</i>)	1939d	TORTONESE (207)
<i>Orthogoriscus</i> spp. (= <i>Mola</i> spp.)	1919	TORTONESE (207)
<i>Paralepis hyalina</i> (= <i>Sudis hyalina</i>)	1917b	POST (63)
<i>Paralepis rissoi</i> (= <i>Notolepis rissoi</i>)	1917c	POST (63)

<i>Names</i>	<i>Contributions</i>	<i>Remarks</i>
<i>Paralepis sphyraenoides</i> (= <i>Lestidiops sphyraenoides</i>)	1918a	POST (63)
<i>Pelamys sarda</i> (= <i>Sarda sarda</i>)	1910b, 1932e	POSTEL (158)
<i>Regalecus gladius</i> (= <i>Regalecus glesne</i>)	1926d	PALMER (106)
<i>Regalecus glesne</i>	1925b	PALMER (106)
<i>Remora remora</i> (= <i>Echeneis remora</i>)	1928d	LACHNER (200)
<i>Saurenhelys cancrivora</i>	1938b	BLACHE, BAUCHOT and SALDANHA (80) NIELSEN (51)
<i>Saurus griseus</i> (= <i>Synodus saurus</i>)	1915b, f	
<i>Scomberesox saurus</i> (= <i>Esox saurus</i>)	1940b	PARIN (91)
<i>Scopelus caninianus</i> (= <i>Myctophum punctatum</i>)	1915a, c, d	KREFFT and BUSEKKER (58)
<i>Scopelus gemeralli</i> (= <i>Lobianchia gemeralli</i>)	1931d	KREFFT and BEKKER (58)
<i>Scopelus humboldti</i> (= <i>Myctophum punctatum</i>)	1915a, c, d	KREFFT and BEKKER (58)
<i>Seriorsa dumerilii</i> (= <i>Caranx dumerilii</i>)	1930j, 1933b	HUREAU and TORTONESE (131)
<i>Smaris insidiator</i> (= <i>Centracanthus cirrus</i>)	1939a	TORTONESE, SERTORIO and BAUCHOT (141)
<i>Stomias boa</i> (= <i>Stomias boa boa</i>)	1912b, 1915c, 1918b	MORROW (41)
<i>Stylophthalmus lobiancoi</i> (= <i>Myctophum punctum</i>)	1915c, d	KREFFT and BEKKER (58)
<i>Stylophthalmus mediterraneus</i> (= <i>Symbolophorus veramyi</i>)	1915c, d	KREFFT and BEKKER (58)
<i>Thynnus brachypterus</i> (= <i>Thunnus (Thunnus) thynnus</i>)	1910a	POSTEL (158)
<i>Trachurus mediterraneus</i> (= <i>Trachurus mediterraneus mediterraneus</i>)	1932b	HUREAU and TUSORTONESE (131)
<i>Trachipterus cristatus</i> (= <i>Zu cristatus</i>)	1918f	PALMER (107)
<i>Vinciguerria attenuata</i>	1913b	WITZELL (37)
<i>Vinciguerria poweriae</i>	1913b, 1931f*	WITZELL (37) *after WITZELL (1973: 122)
<i>Xiphias gladius</i>	1910c, 1921, 1922, 1927c, 1929a, 1930e, i	TORTONESE (161)
<i>Zeus faber</i>	1928e, 1931i	WHEELER (120)

Based on this listing, contributions by Sanzo are enumerated 122 articles, as summarized as given in Table 1. Among them, 8 articles are subdivided into sections or chapters with their relative in-text subtitle. These articles are Entries [1910a (3 sections), 1910b (3 sections), 1915c (5 sections), 1915d (2 sections), 1915f (3 sections), 1918g (13 sections), 1936c (2 sections), and 1939d (6 sections)]. When all the sections are considered as independent each other, his articles are totally of 151. SPARTÀ

(1941) considered such a section as it were an independent article, but only for Entry [1918g], or LS(43-54, or 12 entries). As mentioned above, this paper [1918g] includes 13 sections. The 13th section was overlooked by the preceding compiler. If his arrangement is not appropriate for the articles, his listing comes to contain 114 of the 122 articles listed here.

3. Range of Sanzo's interest

The works listed here tell us that Sanzo had

expressed a continuing interest in a wide range (Table 1) of natural sciences, while his bio-medical career had focused on ichthyology in the framework of both elasmobranch and teleostean fishes (Table 2). His speciality was apparently in embryology or early life history (85 of 122 articles) of marine fishes, and naturally extended to domestic marine fishery (6 articles). After all, those works cover more than 80 genera (Table 3) in the ichthyological taxa. It is noteworthy here that he contributed to another field or fish morphology, of which the next section is given for the detail. His interest attached moreover to other animals, and 9 works were published on Scyphomedusae, Anthozoa, Pelesypoda, Cephalopoda, Sagittoida and Amphibia.

4. Morphological contributions

Sanzo directed his special attention (Table 1) not only to early life history, but also to morphology of fishes. This is in relation to the lateral system of 17 *Gobius* species (Gobiidae) [Entry 1911], the luminous organ of *Gonostoma denudatum* larvae (Gonostomatidae) [Entry 1912] and the cutaneous skeleton in the initial stage of teleostean fishes [Entry 1929d]. The latter two are apparently in connection with early life history as well. Concerning the other, or the former work, it is rather unique among all other works, because the work is exactly in relation to systematic ichthyology, while he (1911: 252) suggested an interrelationship of the work to his studies on Myctophidae. He had never paid his attention to this scientific field so far, except another case where he guided his academic successors (MORTARA, 1918; LAMBERTENGI, 1919) in a study of a similar theme.

As referred already (TAKAGI, 1988), the unique work of systematics was not necessarily estimated by international researchers before the 1950s. A higher estimation of it was probably established by BERTIN and ARAMBOURG (1958: 2447, fig. 1760), from the viewpoint of the importance of extraordinarily developing of the pit line system in the gobioid fishes. It may be remembered here that his connection (SANZO, 1911: 253) formed with a French colleague (Louis Fage) during the

preparatory period of the work.

According to his own account (SANZO, 1911, loc. cit.) and available documents, the Stazione Zoologica in Naples might play an important role in accomplishment of the work. He (1911; loc. cit.) noted that, besides such a support as the direction of his professor at the Regia Università di Palermo, the work was prepared mostly for the last three years by the courtesy of the Station. The archive documents of the Station tell us that Sanzo was registered as visiting researcher three times, that is, in 1903 (for 110 days from Messina), 1908 (for 86 days from Palermo) and 1910 (for 11 days from Palermo). His mention cited above suggests that the latter twice visits directly did for his research. And big results of the research was published on the Station's organ.

Finally, it is interesting that he was qualified in the very year of 1911 (Appendix 1) after a competition as professor at the newly established Regio Comitato Talassografico Italiano, and actually in 1916, nominated as Professor-Director at the Istituto Centrale di Biologia Marina in Messina, under government of the Committee. The gobiological work must be the keynote of the dissertation for professorship besides his preceding numerous works.

5. Taxonomic topics

As far as our survey goes, Sanzo made no taxonomic contribution, though we can see a few contrary indications. According to JORDAN (1963: [627] 127), Sanzo is to have described the genus *Stylophthalmooides* in 1922. GOLVAN (1965) followed after JORDAN (1963, loc. cit.) in his catalogue of fish genera. JORDAN (1963: 790) additionally referred the original description of the genus, as "... Mem. Acad. Roma, 1920 [not 1922]; orthotype *S. lobiancae* [= *lobiancae*] Sanzo (Larvae of some Stomatid)." Nevertheless, the serial mentioned there is difficult to be identified among others. Recently, PAXTON (1979) gave a solution for this confusion, with ESCHMEYER (1990). PAXTON (1972: 43; 1979: 15) and ESCHMEYER and BAILEY (in ESCHMEYER, 1990: 393) pointed out that the genus was described in 1912 by Mazzarelli. As cited above (Entries [1915c, d]), SANZO referred to 2 species of this genus.

On the other hand, the vital activity of Sanzo seems to have inspired taxonomists. According to the Clofnam, successive researchers dedicated to him 3 species names, These species belong to Apogonidae (*Microichthys sanzoi* Spartà, 1950), Gobiidae (*Gobius sanzoi* de Buen, 1918) and Gonostomidae (*Vinciguerria sanzoi* Jespersen et Tåning, 1919), respectively.

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Appendix 1. Brief personal record of Prof. Luigi Sanzo

- 1874 Born at Capizzi in the region of Nebrodi (Caronie) of the province of Messina on 26 October 1874
- 1897-1899 Nominated as Intern at the Institute of Pharmacology of the Royal University of Messina, directed by Prof. G. Gaglio. (Interno nell'Istituto di Farmacologia della Regia Università di Messina)
- 1899 Did Degree in medicine and surgery with excellent marks
- 1900 Nominated as Personnel of the Medical Museum at the Royal University of Messina (Personale del Gabinetto di Materia medica della Regia Università di Messina)
- 1901 Did Degree in natural sciences with highest marks
- 1902 Won at the competition for qualification and examination at Rome for professorship of natural sciences in secondary schools (Vincitore nel concorso per titoli ed esami a Roma per cattedre di scienze naturali nei licei)
- Nominated as Assistant of Zoology and Comparative Anatomy at the Institute of Experimental Pharmacology of the Royal University of Messina, directed by Prof. A. Benedicenti (Assistente di Zoologia ed Anatomia Comparata nell'Istituto di Farmacologia Sperimentale della Regia Università di Messina)
- 1903 Registered as visiting researcher (Register No. 1426) of the Anton Dohrn Zoological Station in Naples during the period from 9 July to 26 October 1903 (Ricercatore ospite della Stazione Zoologica "Anton Dohrn" di Napoli)
- 1905 Nominated as Lecturer of Zoology and Comparative Anatomy at the Institute of Experimental Pharmacology of the Royal University of Messina, teaching vertebrate embryology (Incaricato/Libera docenza di Zoologia ed Anatomia Comparata nell'Istituto di Farmacologia Sperimentale della Regia Università di Messina)
- 1906 Married with Miss Isabella Salvo at the Chiesa di S. Teresa di Riva in Parelmo (Via Liberià 101) on 4 September 1906 [No trace of the church and the street is found in the recent Palermo City, as far as our personal survey

- goes]
- 1907 Nominated as Lecturer and Assistant of Comparative Anatomy and Physiology at the Institute of Zoology of the Royal University of Palermo, directed by Prof. F. Raffaele (Libero docente ed Aiuto di Anatomia e Fisiologia Comparata nell'Istituto di Zoologia della Regia Università di Palermo)
- 1908 Registered as visiting researcher (Register No. 1852) of the Anton Dohrn Zoological Station in Naples from Palermo during the period from 6 August to 30 October 1908 (Ricercatore ospito della Stazione Zoologica "Anton Dohrn" di Napoli)
- 1910 Registered as visiting researcher (Register No. 2066) of the Anton Dohrn Zoological Station in Naples from Palermo during the period from 18 to 28 August 1910 (Ricercatore ospito della Stazione Zoologica "Anton Dohrn" di Napoli)
- 1911 Won at the competition for Chief Biologist-Specialist or Professor at the Royal Oceanographic Committee of Italy (founded in 1910 at Naples) for the Central Institute of Marine Biology, a projected laboratory in Messina (Vincitore nel concorso a Biologo specialista capo del Regio Comitato Talassografico Italiano per il Istituto Centrale di Biologia Marina in Messina)
- 1916 Nominated as Director at the Central Institute of Marine Biology in Messina, Royal Oceanographic Committee of Italy, actually the Experimental Institute of Oceanography in the National Council of Researches (Istituto Sperimentale Talassografico nelle Consiglio Nazionale delle Ricerche), on 10 December 1916, recommended by Profs. B. Grassi and F. Raffaele (Direttore al Istituto Centrale di Biologia Marina in Messina del Regio Comitato Talassografico Italiano)
- 1932 Nominated as Member of the National Committee for Biology in the National Council of Researches (Membro del Comitato Nazionale per la Biologia del Consiglio Nazionale delle Ricerche)
- 1933 Won Prize for physical and natural sciences for the year 1933 by the Italian Society of Sciences (Premio per le scienze fisiche e naturali per l'anno 1933 dalla Società Italiana delle Scienze)
- 1935 Nominated as Honorary member of the Société Zoologique de France, offered by Prof. M. Caullery
- 1939 Nominated as Member of the Committee for Research on Marine Biology applied to Fishery of the Commissionership General for Fishery (Membro del Commissione per gli Studi sulla Biologia Marina applicata alla Pesca del Commissariato Generale per la Pesca)
- 1940 Deceased after shortest illness in Messina on 10 December 1940