

Systematic Distribution of Bioluminescence in Marine Animals: A Species-Level Inventory

Julien M. Claes ^{1,*} , Steven H. D. Haddock ², Constance Coubris ¹  and Jérôme Mallefet ¹ 

¹ Marine Biology Laboratory, Earth and Life Institute, Université catholique de Louvain, 1348 Louvain-la-Neuve, Belgium; constance.coubris@uclouvain.be (C.C.); jerome.mallefet@uclouvain.be (J.M.)

² Monterey Bay Aquarium Research Institute, 7700 Sandholdt Road, Moss Landing, CA 95039, USA

* Correspondence: julien.claes@gmail.com; Tel.: +32-477480062

Abstract: Bioluminescence is the production of visible light by an organism. This phenomenon is particularly widespread in marine animals, especially in the deep sea. While the luminescent status of numerous marine animals has been recently clarified thanks to advancements in deep-sea exploration technologies and phylogenetics, that of others has become more obscure due to dramatic changes in systematics (themselves triggered by molecular phylogenies). Here, we combined a comprehensive literature review with unpublished data to establish a catalogue of marine luminescent animals. Inventoried animals were identified to species level in over 97% of the cases and were associated with a score reflecting the robustness of their luminescence record. While luminescence capability has been established in 695 genera of marine animals, luminescence reports from 99 additional genera need further confirmation. Altogether, these luminescent and potentially luminescent genera encompass 9405 species, of which 2781 are luminescent, 136 are potentially luminescent (e.g., suggested luminescence in those species needs further confirmation), 99 are non-luminescent, and 6389 have an unknown luminescent status. Comparative analyses reveal new insights into the occurrence of luminescence among marine animal groups and highlight promising research areas. This work will provide a solid foundation for future studies related to the field of marine bioluminescence.

Keywords: bioluminescence; deep-sea; diversity; systematics; photophores; photocytes; marine luminescent animals



Citation: Claes, J.M.; Haddock, S.H.D.; Coubris, C.; Mallefet, J. Systematic Distribution of Bioluminescence in Marine Animals: A Species-Level Inventory. *Life* **2024**, *14*, 432. <https://doi.org/10.3390/life14040432>

Academic Editor: Liudmila P. Burakova

Received: 31 January 2024

Revised: 20 March 2024

Accepted: 22 March 2024

Published: 24 March 2024



Copyright: © 2024 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

1. Introduction

Bioluminescence has fascinated humans and puzzled scientists since Antiquity [1,2]. Defined as the emission of visible light by an organism, this phenomenon is the by-product of an oxidation reaction [3]. Luminescent organisms harbor various photogenic structures ranging from simple cells (photocytes) to complex organs called photophores. Photophores typically combine photocytes with sophisticated optical elements (e.g., mirrors, light guides, lenses, filters, and shutters) modifying the physical characteristics (intensity, wavelength, and angular distribution) of the light emission [4,5]. In symbiotic photophores, these photocytes are replaced by luminescent bacteria [4]. Photogenic structures are controlled by diverse physiological ‘switches’ (e.g., neurotransmitters, hormones, and extraocular opsin-based feedback loops [4,6–14]) and produce diverse photic displays. These displays are classified into two broad categories based on the duration of the light emission: flashes (light emission ≤ 2 s) and glows (light emission > 2 s) [4].

Luminescence can be observed in most of the Earth’s ecological niches and displays a broad phylogenetic distribution, with a peak diversity in marine animals [15]. In the permanent darkness of the deep-sea biome, and especially in the shelter-less space of the twilight mesopelagic zone (layer ranging from 200 to 1000 m depth), representatives of most animal groups have indeed evolved an arsenal of light-generating adaptations for predator

evasion, prey capture, and conspecific or host attraction [16,17]. Luminescent animals may be particularly abundant. In recent comprehensive studies involving in situ video recording, luminescence capability has been observed in 76% of macroscopic individuals from the water column (from surface to abyssal depths) and in up to 41% of macroscopic individuals from the benthos [18,19]. In addition, the luminescent bristlemouth fish *Cyclothone* is the world's most abundant vertebrate genus and the species it contains are key components of marine ecosystems [20].

Establishing if an animal is luminescent can be challenging since bioluminescence is a low-intensity and ephemeral event that can only be reliably visible in live animals [21]. Moreover, individuals of a luminescent species might not appear to be luminous due to a series of factors including temporal (e.g., seasonal) changes in their luminescence capabilities [22–24], sexual dimorphism (e.g., there are no luminescent male anglerfishes) [25], ontogenetic variations (e.g., the visceral organ of *Thysanoteuthis rhombus* degenerates with age) [26] or dietary deficiencies in the components of the chemiluminescent reaction [27–32]. In addition to these situations sometimes leading to 'false-negatives', a series of factors can also lead to the identification of 'false-positives', e.g., non-luminescent animals incorrectly considered as luminescent. This latter case can lead to long-term problems, because once reported, it is very challenging to rule out the observation, especially if its exact context cannot be established [15,16]. Erroneous luminescence reports typically come from the contamination of dead or moribund animals with luminescent bacteria [33], gut contents, or adhered organisms, taxonomic mistakes [15], incorrect assumption that all species from a genus are luminous, confusion with other photic phenomena (e.g., iridescence or fluorescence) [16], or vivid imagination from researchers and naturalists establishing the photogenic character of non-luminous structures simply based on superficial inference rather than scientific evidence [17].

For many animal groups, the rise of molecular phylogenies enabled the evolutionary history of luminescence to be reconstructed, which was previously challenging because bioluminescence is a soft tissue-based process leaving no fossil clues [34–39]. Molecular phylogenetics also triggered a deep re-organization of marine animal systematics. Many species have been synonymized or moved to other genera (or even to higher taxonomic levels), subspecies have been erected as new species, subgenera have become new genera, and so on. All these elements have created additional confusion about the luminescence competence of a given species or genus. This, and the previously mentioned challenges in determining the luminescence status of a given species with certainty, might explain why—despite the paramount importance of animal luminescence for understanding marine ecology—there is currently no consolidated species-level list of luminescent marine animals available. Systematic studies on luminescence typically go no further than the genus-level [15,40] or they reach species-level but only for a relatively narrow taxonomic group [41–46].

Here, we have undertaken a comprehensive inventory of marine animal luminescence based on the review of over one thousand publications, close to 800 of which are featured in this publication. We also compiled erroneous reports of luminescence with associated references, effectively 'busting the myth', and established a list of non-luminous species from luminescent genera. We expect that this extensive listing will provide marine scientists and bioluminescence researchers with a strong foundation to perform research in their respective fields.

2. Materials and Methods

2.1. Catalogue of Marine Luminescent Animals

A catalogue of marine luminescent animals was built leveraging prior exhaustive reviews (e.g., Herring's luminescent genera catalogue from 1987 [15]) confirmed, corrected, and complemented with an exhaustive scientific literature screening spanning over one thousand publications, as well as unpublished data. Keywords such as '(bio)luminescence', 'light production', 'luminous', 'photophore', 'photocyte', or 'photogenic structure' com-

bined with taxonomic concepts (e.g., species, genera, families) mentioned in luminescence reviews led to the recovery of initial luminescence reports and their associated context (authority reporting the observation and its luminescence knowledge, year of the report, experimental procedure if any, and so on). This allowed us to identify the animal involved at the lowest possible taxonomic level (species in most of the cases) and to bring additional nuance to the typical ‘luminescent vs. non-luminescent’ binary classification, instead proposing a ‘luminescence scoring scale’ providing a finer view on the level of confidence in the luminescence competence of a given species (Table 1).

Table 1. Luminescence scoring scale.

Score	Name	Description
1	Uncertain luminescence	Report previously considered as dubious by a luminescence authority (e.g., Peter J. Herring), or to genera reported as luminescent but currently lacking a species-level report following the reallocation of luminescent species to other genera.
2	Putative photogenic structure	Report featuring an anatomical element considered as photogenic while not sharing similarities with structures confirmed as photogenic in species from the same order.
3	Potential photogenic structure	Report featuring an anatomical element sharing similarities (e.g., similar shape or fluorescence pattern) with structures confirmed as photogenic in species from the same order.
4	Photogenic structure	Report featuring an anatomical element displaying the typical morphology of structures confirmed as photogenic in species from the same family (e.g., counterilluminating photophores of crustaceans, cephalopods, and fishes).
5	Observed luminescence	Report featuring luminescence observations made in relevant conditions and reported by credible scientific authorities.
6	Substantiated luminescence	Report for which irrefutable scientific evidence (e.g., via luminometry, spectrophotometry, biochemistry, long exposure photography or light-intensified video recordings) of the luminescence competence of the species has been provided.

Species or genera with a score of 4 or above were considered as luminescent, while species or genera with a score of 3 or below were considered as potentially luminescent, with additional research needed to confirm their luminescence competence. Genera received the highest score reported among the species they encompass.

In our review process, we also collected information regarding reports that have been conclusively considered as erroneous, and listed species from luminescent or potentially luminescent genera that are known to be non-luminescent. In addition, to provide an upper estimate of the number of luminescent marine animals, we counted the number of species from luminescent (scores 4–6) and potentially luminescent (scores 1–3) genera for which the luminescence competence has not been determined yet (unknown luminescent status). Finally, species not belonging to a luminescent or a potentially luminescent genus have been conservatively considered as non-luminescent in our calculation of the proportion of luminescent species across marine taxa.

2.2. Taxonomy and Phylogenetic Tree Building

The taxonomy used in this study (from phylum to species level) followed The World Register of Marine Species (WoRMS), a comprehensive open-access inventory of all marine species’ names, which has increasingly become the authoritative reference for marine taxonomy [47,48]. Throughout our scientific literature review, however, we noticed a few deviations from the currently available version of the WoRMS database [49]. These deviations represent species recently described that are likely to be included as valid species in the WoRMS database soon, species for which synonymy or (non-)validity has

been properly established, or species that need to be reallocated to another (often recently described) genus (deviations we followed as well as their associated references can be found in Table S1).

A cladogram (constant branch length) of marine luminescent animals was built based on the topology from Lau and Oakley [50] (itself built based on recent molecular phylogenies of luminescent organisms, e.g., [37]), while, however, only including marine animal groups with luminescent representatives and placing Ctenophora as the most basal animal group, following the recent discovery by Schultz et al. [51]. Porifera has been included in the cladogram following the new description of a deep-sea luminescent sponge from the genus *Cladorhiza* [52]. Taxonomic groups were presented at the phylum level, with a higher taxonomic resolution (e.g., class, superorder, or family level) being provided for three phyla displaying a relatively higher specific diversity (20,000 species or more), e.g., Mollusca, Arthropoda, and Chordata.

The illustrated silhouettes of marine animal representatives were drawn using Adobe Illustrator (version 28.1).

3. Results

3.1. Catalogue of Marine Luminescent Animals

Our screening of the scientific literature, complemented by unpublished data, led to the record of 819 genera and 2951 species of marine animals from luminescence reports, of which only a tiny fraction—30 genera and 34 species—appears to be erroneous reports (Table S2). A luminescence score of 4 or above was attributed to most of the inventoried genera (87.53%) and species (95.34%), which we then considered as ‘luminescent’ in the rest of the article (Figure 1a). Luminescent and potentially luminescent (luminescence score of 3 or below) species (or higher taxonomic level such as genus, when no specific species has been identified) from valid reports are listed for each marine animal phylum in Table S3 (‘Catalogue of marine luminescent animals’), along with their respective taxonomic information and luminescence score (with associated luminescence report reference). Luminescent genera are mostly associated with a luminescence score of 6 (‘Substantiated luminescence’; 60.14% of valid reports) while luminescent species are mostly associated with a luminescence score of 4 (‘Photogenic structure’; 59.21% of valid reports). Luminescent and potentially luminescent genera encompass 9405 species, among which a small fraction (1.05% or 99 species) can be conclusively considered non-luminescent (Table S4) and about two-thirds (67.96%) have an unknown luminescent status (Figure 1b).

3.2. Generic Distribution of Luminescence across Marine Taxonomic Groups

The 695 luminescent genera of marine animals are distributed across numerous marine phyla (Figure 2), with about two-thirds of them found in Chordata (236 genera, including 226 genera of fishes), Arthropoda (117 genera, mostly of pelagic crustacea), and Cnidaria (108 genera). Mollusca (87 genera, including 72 genera of Decapodiformes, e.g., squids) and Echinodermata (87 genera) are other luminescent genera-rich phyla (each representing 12.52% of the total), while a very small number of luminescent genera are found in Porifera (one genus), Nemertea (one genus), Chaetognatha (two genera), and Hemichordata (three genera). In all phyla and most taxonomic groups, genera with luminescence score of 5 or above are more frequently observed; only in Decapodiformes, basal Teleostei, and Gadiformes are genera with luminescence score of 4 more frequent (54.17%, 51.85% and 66.67% of luminescent genera, respectively). Most of the 99 potentially luminescent genera are found in Arthropoda (34 genera, including 22 genera of Copepoda), Chordata (23 genera, including 11 genera of derived Teleostei), and Annelida (14 genera).

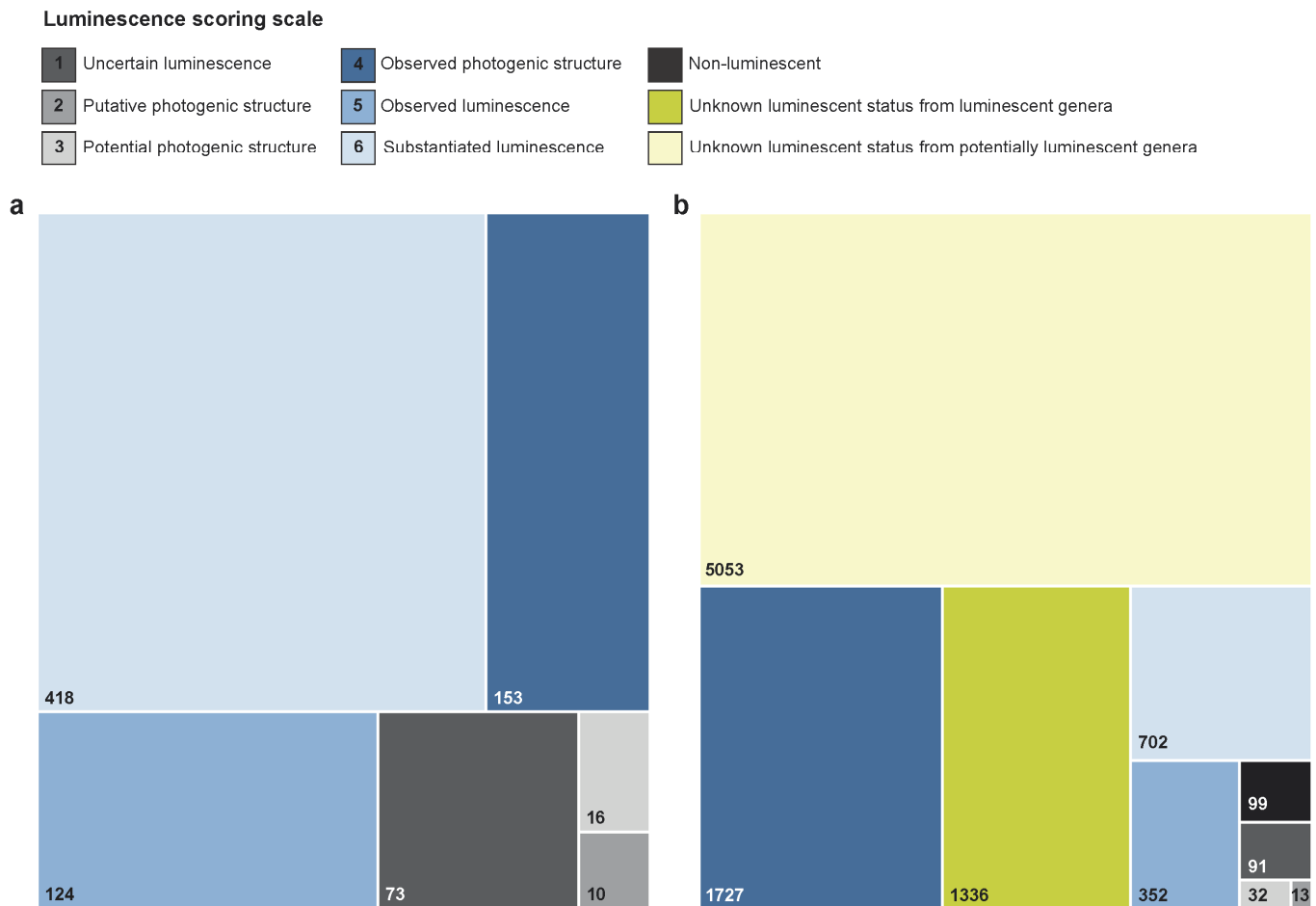


Figure 1. Proportional area chart showing the distribution of genera (a) and species (b) per luminescence score category (not including erroneous reports). The categories ‘Non luminescent’, ‘Unknown from luminescent genera’ and ‘Unknown from potentially luminescent genera’ are only relevant for panel b.

3.3. Specific Distribution of Bioluminescence across Marine Taxonomic Groups

Chordata (1586 luminescent species, including 451 luminescent species of Stomiiformes), Arthropoda (469 species, including 237 Eucarida species), and Mollusca (282 species, including 256 Decapodiformes species) account for 84.04% of the 2781 species of marine luminescent animals (Figure 3; Table S3). Cnidaria (159 species), Echinodermata (146 species), and Annelida (96 species) are other luminescent species-rich phyla, while the other phyla only contain a small fraction (1.55%) of the remaining luminescent species. The majority of the 136 potentially luminescent species are found in Chordata (41 species, including 14 species of Tunicata and 13 species of derived Teleostei), Arthropoda (41 species, including 24 species of Copepoda), Cnidaria (16 species), and Annelida (16 species).

Luminescent species represent a small fraction (<5%) of the total number of valid species from most invertebrate groups, except in Decapodiformes and Ctenophora, where the number of luminescent species reaches 48.03% and 17.11%, respectively (Figure 4). Overall, marine Chordata (including marine Tetrapoda and Cephalochordata) display a proportion of luminescent species of 6.61% and contains a series of taxonomic groupings with higher luminescent species richness (e.g., Selachii and Aulopiformes), or where luminescent species prevail (Gadiformes) or are virtually ubiquitous (Stomiiformes and Myctophiformes). Species with unknown luminescent status from luminescent and potentially luminescent genera represent over 5.00% of some of the taxonomic groups such as Ctenophora (42.78%), Pycnogonida (33.47%), Hemichordata

(27.07%), Echinodermata (21.02%), Cnidaria (8.19%), Annelida (8.15%), and Chaetognatha (7.58%).

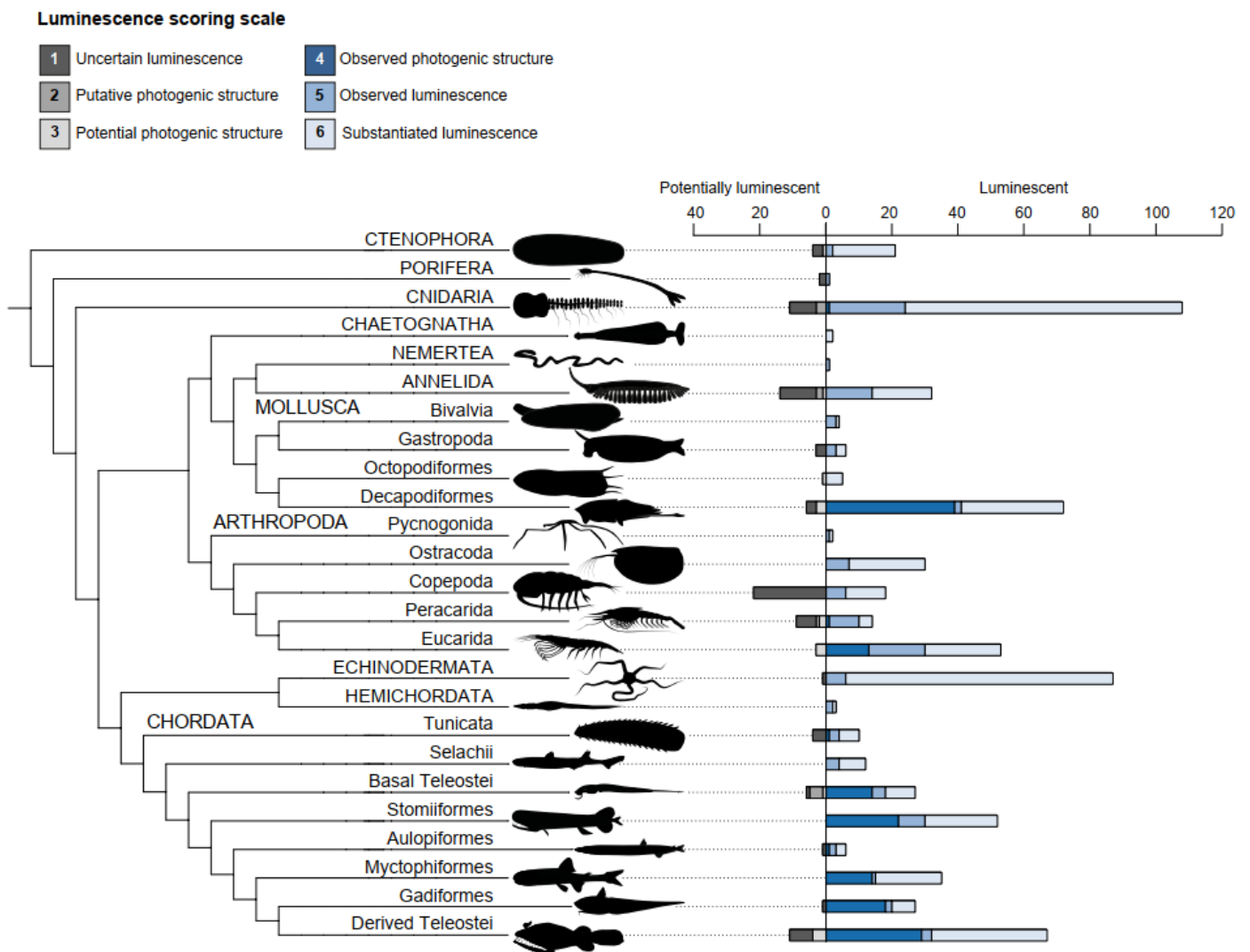


Figure 2. Generic distribution of luminescent marine animals. Capital letters are used for phylum-level groups while lower case labels are used for groups of lower taxonomic level. The bar chart next to the cladogram indicates the number of genera in each luminescence score category (not including erroneous reports). Luminescent genera encompass genera with at least one species displaying a luminescence score of 4 or above while potentially luminescent genera only have species with a luminescence score of 3 or below. ‘Basal Teleostei’ includes Alepocephaliformes, Anguilliformes, Argentiniformes, Clupeiformes, Nothacanthiformes and Saccopharyngiformes, while ‘Derived Teleostei’ includes Acanthuriformes (including Lophiiformes), Acropomatiformes, Batrachoidiformes, Beryciiformes (including Trachichthyiformes), Eupercaria incertae sedis, Kurtiformes, Ophidiiformes and Scombriformes. Drawings by J.M. Claes.

The 6392 species from luminescent and potentially luminescent genera with unknown luminescent status are mostly found in Arthropoda (1655 species, including 617 Copepoda species and 334 Pycnogonida species), Echinodermata (1592 species), Annelida (1129 species), and Cnidaria (1009 species).

All invertebrate taxonomic groups (except Cephalopoda) have a proportion of species with unknown luminescent status higher than 50% (Table 2). The 99 non-luminescent species from luminescent or potentially luminescent genera were found in Echinodermata

(fifty-five species), Chordata (thirty-one species), Cnidaria (seven species), Mollusca (five species) and Annelida (one species).

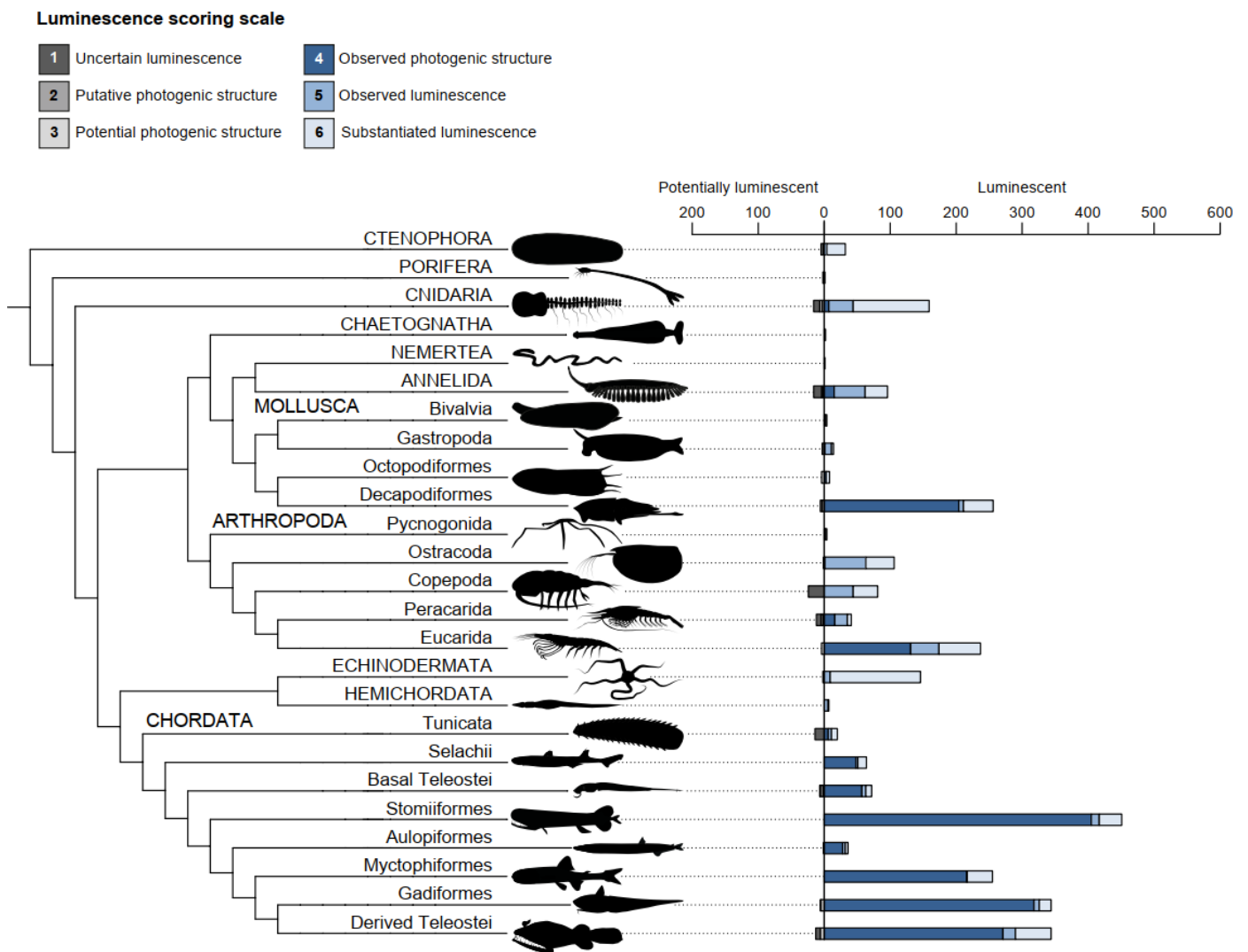


Figure 3. Specific distribution of marine luminescent animals. Capital letters are used for phylum-level groups while lowercase labels are used for groups of lower taxonomic level. The bar chart next to the cladogram indicates the number of species in each luminescence score category (not including erroneous reports). Luminescent species encompass species with luminescence scores ranging from 4 to 6 while potentially luminescent species encompass species with luminescence scores ranging from 1 to 3 while. 'Basal Teleostei' and 'Derived Teleostei' include the same orders as in Figure 2. Drawings by J.M. Claes.



Figure 4. Proportion of luminescent species across marine phyla. Percentages at the top of each circle indicate the proportion of luminescent species (e.g., species with a luminescence score of 4 or above) among the total number of valid species in the corresponding taxonomic grouping (indicated at the bottom of the circle). Capital letters are used for phylum-level groups while minuscule letters are used for groups of lower taxonomic level. ‘Basal Teleostei’ includes Albuliformes, Elopiformes, Gonorhynchiformes, Osmeriformes, Salmoniformes, and Siluriformes, in addition to the orders mentioned in Figure 2. ‘Derived Teleostei’ includes Anabantiformes, Atheriniformes, Beloniformes, Blenniiformes, Callionymiformes, Carangiformes, Centrarchiformes, Cetomimiformes, Cichliformes, Cyprinodontiformes, Dactylopteriformes, Gobiesociformes, Holocentriformes, Labriformes, Mugiliformes, Mulliformes, Pleuronectiformes, Scorpaeniformes, Synbranchiformes, Syngnathiformes, Tetraodontiformes, and Uranoscopiformes in addition to the orders mentioned in Figure 2. Drawings by J.M. Claes.

Table 2. Distribution of species with undetermined luminescent status from luminescent and potentially luminescent genera across marine animal taxonomic groupings.

Taxonomic Group	Number of Species with Undetermined Status		
	From Luminescent Genera	From Potentially Luminescent Genera	Proportion with Undetermined Status (% ^{1,2})
CTENOPHORA *	54	26	46.15–68.38
PORIFERA *	0	118	0.00–97.52
CNIDARIA **	898	111	75.40–84.72
CHAETOGNATHA **	10	0	83.33
NEMERTEA **	24	0	96.00
ANNELIDA **	944	185	76.01–90.90
MOLLUSCA			
Bivalvia **	38	0	90.48
Gastropoda **	238	31	82.93–93.73
Octopodiformes	1	0	7.69
Decapodiformes	0	11	0.0–3.97
ARTHROPODA			
Pycnogonida **	334	0	98.82
Ostracoda **	139	1	56.28–56.68
Copepoda *	200	414	27.82–85.40
Peracarida *	58	178	21.16–81.91
Eucarida **	303	21	53.63–57.35
ECHINODERMATA **	1589	3	88.52–88.69
HEMICHORDATA **	36	0	83.33
CHORDATA			
Tunicata **	55	2	56.70–58.76
Selachii	1	0	1.54
Basal Teleostei	22	23	15.94–32.61
Stomiiformes	0	0	0.00
Aulopiformes	7	0	15.91
Myctophiformes	0	0	0.00
Gadiformes	11	1	3.02–3.30
Derived Teleostei	88	211	13.25–45.03

¹ For each taxonomic grouping, the smallest value refers to species from luminescent genera (luminescence scores from 4 to 6) with undetermined luminescent status while the highest value refers to species from both luminescent and potentially luminescent (luminescence scores from 1 to 3) genera with undetermined luminescent status.

² Using the total number of species from both luminescent and potentially luminescent genera as a common denominator. * Taxonomic group with a proportion of species with undetermined luminescent status from luminescent and potentially luminescent genera > 50%; ** Taxonomic group with a proportion of species with undetermined luminescent status from luminescent genera > 50%. Capital letters are used for phylum-level groups while lowercase labels are used for groups of lower taxonomic level. Basal Teleostei' and 'Derived Teleostei' include the same orders as in Figure 2.

4. Discussion

The establishment of an exhaustive listing of luminescent marine animals has long been considered a virtually impossible task due to, on the one hand, how abundant the scientific literature treating the topic has been over the last two centuries, and, on the other hand, the incomplete or incorrect character of many of these luminescence reports [15,16]. While the exhaustiveness of our catalogue cannot be assessed (we included all the information we found), the number of missed reports (if any) is likely to be small. Indeed, our comprehensive literature review involved the screening of over one thousand publications and allowed us to recover species-level luminescence reports for a high fraction (>97%, excluding genera for which the absence of species-level report is certain) of marine animal genera seen or suspected to produce light in authoritative luminescence books [53,54] and luminescence reviews covering various taxonomic groups from luminescent species-rich phyla such as Cnidaria [55], Annelida [43,56], Mollusca [45], Arthropoda [33,39,57–61], Echinodermata [44,46,62], and Chordata [40,42,63]. This and the significant amount of

unpublished (or about-to-be-published [55]) luminescence information (59 species and 27 genera for which the luminescence competence is reported here for the first time) encompassed by our catalogue, position this paper as—to our knowledge—the most comprehensive listing of marine luminescent animals ever published. The validity of each species included herein has been checked using WoRMS (complemented with taxonomic information from recent publications), widely recognized as the gold standard in marine taxonomy [47]. We expect the taxonomic information provided in our file (e.g., phylum, class, order, family, genus, species, and authority) to ensure the resilience of each record to future taxonomic changes. Finally, our luminescence scoring scale provides a new way of defining the luminescence capabilities of a given species, departing from the typical luminescent/non-luminescent binary approach. Not only does it allow for a more informative and conservative assessment of the luminescence status of a given species, but it also highlights areas for future research, e.g., to confirm the luminescent status of some species. While we cannot rule out some judgment calls between some categories (e.g., typically between luminescence scores of 2 and 3), the scoring of the reports was nevertheless carried out using a rigorous approach based on clear criteria and always opting for a conservative approach (e.g., in the case of doubt, the lowest luminescence score was selected).

With 695 luminescent genera of marine animals, our catalogue is ~40% larger than Herring's authoritative listing from 1987 [15]. Combined with luminescent records from non-marine Annelida (~35 species from 16 genera [56,64,65]), Mollusca (six species from three genera [66]) and Arthropoda (3000 species from ~240 genera [15,67–77]), Fungi (~100 species from 14 genera [78–80]), Protists (~100 species from 27 luminescent genera [41,81]) and bacteria (forty-four species from six genera [82–85]), our listing amounts to over 6000 luminescent species from about 1000 genera, which represents at least a 20% increase compared to previous estimates [3,17]. Two driving forces have fueled this augmentation: an 'organic' growth linked to taxonomic changes triggered by the rise of molecular phylogenies (e.g., elevation of subgenera to genera level, splitting of genera to avoid paraphyly, and so on), and a 'methodological' growth linked to the discovery of new luminescent species (or to the discovery of the luminescence competence of species discovered before). In the coming decades, however, we expect the latter to be the main vector of luminescent animal genera increase since (i) many taxonomic groups have now undergone molecular-enabled taxonomic changes and, hence, might have reached relative taxonomic stability, and (ii) the development of deep-sea exploration technologies and light measurement techniques will likely fuel the detection of new luminescent animals, facilitating the in situ observation of luminescent behaviors and the collection of animals in good physiological conditions for laboratory experimentation [18,19,86–89].

Strikingly, while marine animals encompass about 70% of luminescent genera known to science, they represent less than half of the world's known luminescent organisms. This discrepancy between generic and specific diversity might reflect the lower accessibility of field observation and laboratory experiments to marine animals (especially those inhabiting the deep-sea). The large number of species with an unknown luminescent status found in both luminescent (~65% of species) and potentially luminescent (~90% of species) genera from our catalogue supports this idea. We believe that many of these species are in fact endowed with a luminescent capability since, as highlighted by the present work, non-luminous species are rare among marine luminescent genera (e.g., they occur in <5% of them). If true, this would double the number of luminescent taxa recorded. Two bioluminescence characteristics might explain the infrequent occurrence of non-luminous representatives among luminescent genera. The first is the high adaptive value of luminescence [16,17], which makes it a resilient trait persisting during long evolutionary times, hence leading to relatively rare 'luminescence loss' events. The second is the accelerated speciation rate of luminescent species [90–92], which quickly generates a generic-level genetic distance from their non-luminescent counterparts, making non-luminescent species from a luminescent genus only a transient situation. This would be particularly true for species like *Cylothone obscura* (the only non-luminescent Stomiidae), which lost the

photophores involved in camouflage by counterillumination following the adoption of a bathypelagic lifestyle (where counterillumination is useless [93–95]) and hence have a physical barrier separating them from congeneric species.

As already observed by Harvey [53], the distribution of luminescence across marine animal taxa is far from homogeneous: some groups are luminescent taxa-rich (e.g., fishes and Decapodiformes) while others are luminescent taxa-poor (e.g., Porifera and Nemertea) or completely lack luminescent representatives (e.g., 20 phyla including marine species-rich phyla such as Platyhelminthes, Bryozoa, and Nematoda). In relative terms, luminescence clearly stands out as a rare phenomenon across marine taxa since confirmed luminescent species account for only 1.32% of marine animals currently considered valid in WoRMS (circa 210,000 species including all phyla) [49]. In addition, five phyla show less than 1% of luminous species. However, a similarly small fraction of marine animal species has been thoroughly tested under appropriate conditions, so fundamental discoveries will continue to be made.

Our results confirmed the exceptional occurrence of luminescence in Decapodiformes, which is ~100 times higher than that observed in the phylum Mollusca. Yet, they challenge the view that virtually all Ctenophora are luminous, since benthic Platyctenes—which currently lack any luminescent reports—have had high taxonomic proliferation (52 species in WoRMS), although we did find this phylum to have the highest relative richness in luminescent species (17.00%). Finally, our work allows us, for the first time, to properly compare the luminescence occurrence in bony and cartilaginous fishes, e.g., using robust taxonomy and controlling for environment (marine) and taxonomic level (class); as a result, luminescent species represent a higher proportion of Teleostei (8.50% of 17,671 species) than Elasmobranchii (5.20% of 1255 species). Determining if such results reflect uneven information from heterogeneous research efforts or rather highlight fundamental differences in functional ecology across groups remains a challenging scientific question [17]. This overview, however, reveals some intriguing broad trends. Luminescent taxon-rich groups appear to contain a high fraction of relatively large pelagic species bearing counterilluminating photophores. These photophores are easy to spot using the naked eye, even by a luminescence non-specialist since (i) they are often relatively large with a well-identifiable structure adapted to their role (e.g., they typically have a pigmented sheath with accessory optical structures such as lenses and/or filters [96]), and (ii) they produce a long lasting-light display (typically ‘glows’, which last >2 s) even in moribund specimens, which facilitate field and laboratory observations [97]. On the other hand, many of the luminescent taxon-poor groups contain benthic species with virtually invisible photogenic structures (e.g., isolated photocytes or internal secretory organs) involved in short light displays (e.g., typically ‘flashes’, which last ≤2 s) upon predator stimulation [16,98–103]. This strongly suggests the underrepresentation of luminescent taxa in some taxonomic groups to reflect (at least partly) an experimental bias rather than a difference in functional ecology. The higher number of species with unknown luminescent status (from both luminescent and potentially luminescent genera) and luminescence score 6 (‘Substantiated luminescence’) reports in these groups support this hypothesis. Benthic deep-sea invertebrates, therefore, likely represent an unexplored potential area for discovering new luminescent animals. A recent increase in experimental focuses on deep-sea Cnidaria and Echinodermata over the last decade has yielded a fair amount of new luminescent genera and species [44,46,55,104–106], and we believe this trend will continue. In addition, the improvement in deep-sea collection techniques will also likely lead to luminous discoveries in groups such as Chaetognatha, which have historically been challenging to study in good physiological conditions [107,108].

5. Conclusions

Our catalogue, based on the latest taxonomic information and associated with an innovative luminescence scoring scale, represents the most comprehensive and informative listing of luminescent marine animals ever published. As such, it not only provides updates

on key ecological numbers (e.g., it shows that the world's luminescent organisms now encompass ~1000 genera, which represents a significant increase compared to previous estimates), it also consists in a robust foundational tool for studies in or related to the field of bioluminescence and marine biology. We hope this work will inspire future luminescence research dedicated to taxonomic groups whose luminous properties have, to this day, remained obscure.

Supplementary Materials: The following supporting information can be downloaded at: <https://www.mdpi.com/article/10.3390/life14040432/s1>, Table S1: List of followed deviations from WoRMS (World Register of Marine Species) database (<https://www.marinespecies.org/>; accessed on 15 January 2024); Table S2: Erroneous luminescence reports; Table S3: Catalogue of marine luminescent animals; Table S4: List of non-luminescent species from luminescent genera.

Author Contributions: Conceptualization, J.M.C. and J.M.; writing—original draft preparation, J.M.C.; writing—review and editing, J.M.C., J.M., C.C. and S.H.D.H.; visualization, J.M.C. All authors have read and agreed to the published version of the manuscript.

Funding: This paper is a contribution to the Earth and Life Institute—Biodiversity research center BRC # 146 (ELIV) and the Centre Interuniversitaire de Biologie Marine (CIBIM). J.M. expresses his gratitude to FRS-FNRS (Fonds de la Recherche Scientifique Belgium) for the financial support received over many years to carry out research projects and stays abroad at many marine biology stations permitting the discovery of new luminous species. S.H.D.H. was supported by the David and Lucile Packard Foundation.

Institutional Review Board Statement: Not applicable.

Informed Consent Statement: Not applicable.

Data Availability Statement: All data supporting the article are included in the Supplementary Materials section.

Acknowledgments: J.M.C. is a Scientific Collaborator of the Université catholique de Louvain (Marine Biology Laboratory). C.C. is a Ph.D. student under a FRIA (FNRS) fellowship. J.M. is Research Associate to F.R.S.–FNRS. S.H.D.H. is a Senior Scientist at the Monterey Bay Aquarium Research Institute. We deeply thank Yuichi Oba for providing information related to some luminescence reports and acknowledge the two anonymous reviewers whose valuable suggestions allowed us to significantly improve the manuscript.

Conflicts of Interest: The authors declare no conflicts of interest.

References

1. Roda, A. *A History of Bioluminescence and Chemiluminescence from Ancient Times to the Present*, 1st ed.; Royal Society of Chemistry: Cambridge, UK, 2011; pp. 1–50.
2. Anctil, M. *Luminous Creatures: The History and Science of Light Production in Living Organisms*, 1st ed.; McGill-Queen's Press-MQUP: Montreal, QC, Canada, 2018; pp. 34–37.
3. Oba, Y.; Stevani, C.V.; Oliveira, A.G.; Tsarkova, A.S.; Chepurnykh, T.V.; Yampolsky, I.V. Selected least studied but not forgotten bioluminescent systems. *Photochem. Photobiol.* **2017**, *93*, 405–415. [[CrossRef](#)]
4. Herring, P.J. Aspects of the bioluminescence of fishes. *Oceanogr. Mar. Biol.* **1982**, *20*, 415–470.
5. Herring, P.J. Bioluminescent signals and the role of reflectors. *J. Opt. A Pure Appl. Opt.* **2000**, *2*, R29–R38. [[CrossRef](#)]
6. Dewael, Y.; Mallefet, J. Luminescence in ophiuroids (Echinodermata) does not share a common nervous control in all species. *J. Exp. Biol.* **2002**, *205*, 799–806. [[CrossRef](#)]
7. Krönström, J.; Dupont, S.; Mallefet, J.; Thorndyke, M.; Holmgren, S. Serotonin and nitric oxide interaction in the control of bioluminescence in northern krill, *Meganyctiphanes norvegica* (M. Sars). *J. Exp. Biol.* **2007**, *210*, 3179–3187. [[CrossRef](#)]
8. Claes, J.M.; Mallefet, J. Hormonal control of luminescence from lantern shark (*Etmopterus spinax*) photophores. *J. Exp. Biol.* **2009**, *212*, 3684–3692. [[CrossRef](#)] [[PubMed](#)]
9. Gouveneaux, A.; Mallefet, J. Physiological control of bioluminescence in a deep-sea planktonic worm, *Tomopteris helgolandica*. *J. Exp. Biol.* **2013**, *216*, 4285–4289. [[CrossRef](#)]
10. Paitio, J.; Oba, Y. Luminous fishes: Endocrine and neuronal regulation of bioluminescence. *Aquac. Fish.* **2023**, *in press*. [[CrossRef](#)]
11. Duchatelet, L.; Coubris, C.; Pels, C.; Dupont, S.T.; Mallefet, J. Catecholamine involvement in the bioluminescence control of two species of anthozoans. *Life* **2023**, *13*, 1798. [[CrossRef](#)]

12. Tong, D.; Rozas, N.S.; Oakley, T.H.; Mitchell, J.; Colley, N.J.; McFall-Ngai, M.J. Evidence for light perception in a bioluminescent organ. *Proc. Natl. Acad. Sci. USA* **2009**, *106*, 9836–9841. [\[CrossRef\]](#)
13. Duchatelet, L.; Sugihara, T.; Delroisse, J.; Koyanagi, M.; Rezsöházy, R.; Terakita, A.; Mallefet, J. From extraocular photoreception to pigment movement regulation: A new control mechanism of the lanternshark luminescence. *Sci. Rep.* **2020**, *10*, 10195. [\[CrossRef\]](#) [\[PubMed\]](#)
14. Frank, T.; Sickles, J.; DeLeo, D.; Blackwelder, P.; Bracken-Grissom, H. Putative photosensitivity in internal light organs (organs of Pesta) of deep-sea sergestid shrimps. *Sci. Rep.* **2023**, *13*, 16113. [\[CrossRef\]](#) [\[PubMed\]](#)
15. Herring, P.J. Systematic distribution of bioluminescence in living organisms. *J. Biolumin. Chemilumin.* **1987**, *1*, 147–163. [\[CrossRef\]](#) [\[PubMed\]](#)
16. Haddock, S.H.; Moline, M.A.; Case, J.F. Bioluminescence in the sea. *Annu. Rev. Mar. Sci.* **2010**, *2*, 443–493. [\[CrossRef\]](#)
17. Widder, E.A. Bioluminescence in the ocean: Origins of biological, chemical, and ecological diversity. *Science* **2010**, *328*, 704–708. [\[CrossRef\]](#)
18. Martini, S.; Haddock, S.H. Quantification of bioluminescence from the surface to the deep sea demonstrates its predominance as an ecological trait. *Sci. Rep.* **2017**, *7*, 45750. [\[CrossRef\]](#)
19. Martini, S.; Kuhn, L.; Mallefet, J.; Haddock, S.H. Distribution and quantification of bioluminescence as an ecological trait in the deep-sea benthos. *Sci. Rep.* **2019**, *9*, 14654. [\[CrossRef\]](#)
20. Irigoien, X.; Klevjer, T.A.; Røstad, A.; Martinez, U.; Boyra, G.; Acuña, J.L.; Bode, A.; Echevarria, F.; Gonzalez-Gordillo, J.I.; Hernandez-Leon, S.; et al. Large mesopelagic fishes biomass and trophic efficiency in the open ocean. *Nat. Commun.* **2014**, *5*, 3271. [\[CrossRef\]](#)
21. Johnsen, S.; Widder, E.A.; Mobley, C.D. Propagation and perception of bioluminescence: Factors affecting counterillumination as a cryptic strategy. *Biol. Bull.* **2004**, *207*, 1–16. [\[CrossRef\]](#)
22. Deheyn, D.; Mallefet, J.; Jangoux, M. Evidence of seasonal variation in bioluminescence of *Amphipholis squamata* (Ophiuroidea, Echinodermata): Effects of environmental factors. *J. Exp. Mar. Biol. Ecol.* **2000**, *245*, 245–264. [\[CrossRef\]](#) [\[PubMed\]](#)
23. Claes, J.M.; Mallefet, J. Functional physiology of lantern shark (*Etmopterus spinax*) luminescent pattern: Differential hormonal regulation of luminous zones. *J. Exp. Biol.* **2010**, *213*, 1852–1858. [\[CrossRef\]](#) [\[PubMed\]](#)
24. Giesbrecht, W. Mitteilungen über Copepoden. 8. Über das Leuchten der pelagischen Copepoden und das tierische Leuchten im Allgemeinen. *Mitt. Zool. Stn. Neapel.* **1895**, *11*, 648–689.
25. Herring, P.J. Sex with the lights on? A review of bioluminescent sexual dimorphism in the sea. *J. Mar. Biol. Assoc. UK* **2007**, *87*, 829–842. [\[CrossRef\]](#)
26. Roper, C.F.E.; Jereb, P. Family Thysanoteuthidae. In *Cephalopods of the World. An Annotated and Illustrated Catalogue of Species Known to Date*, 2nd ed.; Jereb, P., Roper, C.F.E., Eds.; Myopsid and Oegopsid Squids; FAO: Rome, Italy, 2010; Volume 2, pp. 384–387.
27. Warner, J.A.; Case, J.F. The zoogeography and dietary induction of bioluminescence in the midshipman fish, *Porichthys notatus*. *Biol. Bull.* **1980**, *159*, 231–246. [\[CrossRef\]](#)
28. Frank, T.M.; Widder, E.A.; Latz, M.I.; Case, J.F. Dietary maintenance of bioluminescence in a deep-sea mysid. *J. Exp. Biol.* **1984**, *109*, 385–389. [\[CrossRef\]](#)
29. Haddock, S.H.; Rivers, T.J.; Robison, B.H. Can coelenterates make coelenterazine? Dietary requirement for luciferin in cnidarian bioluminescence. *Proc. Natl. Acad. Sci. USA* **2001**, *98*, 11148–11151. [\[CrossRef\]](#)
30. Mallefet, J.; Duchatelet, L.; Coubris, C. Bioluminescence induction in the ophiuroid *Amphiura filiformis* (Echinodermata). *J. Exp. Biol.* **2020**, *223*, jeb218719. [\[CrossRef\]](#)
31. Bessho-Uehara, M.; Yamamoto, N.; Shigenobu, S.; Mori, H.; Kuwata, K.; Oba, Y. Kleptoprotein bioluminescence: *Parapriacanthus* fish obtain luciferase from ostracod prey. *Sci. Adv.* **2020**, *6*, eaax4942. [\[CrossRef\]](#)
32. Meyer-Rochow, V.B. Loss of bioluminescence in *Anomalops katoptron* due to starvation. *Experientia* **1976**, *32*, 1175–1176. [\[CrossRef\]](#)
33. Copilas-Ciocianu, D.; Pop, F.M. An account of bacterial-induced luminescence in the Ponto-Caspian amphipod *Pontogammarus maeoticus* (Sowinsky, 1894), with an overview of amphipod bioluminescence. *North-West. J. Zool.* **2020**, *16*, 238–240.
34. Chakrabarty, P.; Davis, M.P.; Smith, W.L.; Berquist, R.; Gledhill, K.M.; Frank, L.R.; Sparks, J.S. Evolution of the light organ system in ponyfishes (Teleostei: Leiognathidae). *J. Morphol.* **2011**, *272*, 704–721. [\[CrossRef\]](#) [\[PubMed\]](#)
35. Morin, J.G. Luminaries of the reef: The history of luminescent ostracods and their courtship displays in the Caribbean. *J. Crustac. Biol.* **2019**, *39*, 227–243. [\[CrossRef\]](#)
36. Straube, N.; Li, C.; Claes, J.M.; Corrigan, S.; Naylor, G.J. Molecular phylogeny of Squaliformes and first occurrence of bioluminescence in sharks. *BMC Evol. Biol.* **2015**, *15*, 162. [\[CrossRef\]](#)
37. Davis, M.P.; Sparks, J.S.; Smith, W.L. Repeated and widespread evolution of bioluminescence in marine fishes. *PLoS ONE* **2016**, *11*, e0155154. [\[CrossRef\]](#) [\[PubMed\]](#)
38. Sanchez, G.; Fernández-Álvarez, F.Á.; Taite, M.; Sugimoto, C.; Jolly, J.; Simakov, O.; Marlétaz, F.; Allock; Rokhsar, D.S. Phylogenomics illuminates the evolution of bobtail and bottletail squid (order Sepiolida). *Commun. Biol.* **2021**, *4*, 819. [\[CrossRef\]](#)
39. Golightly, C.; DeLeo, D.M.; Perez, N.; Chan, T.Y.; Landeira, J.M.; Bracken-Grissom, H.D.; Wolfe, J. Tracing the evolution of bioluminescent light organs across the deep-sea shrimp family Sergestidae using a genomic skimming and phylogenetic approach. *Invertebr. Syst.* **2022**, *36*, 22–35. [\[CrossRef\]](#)
40. Paitio, J.; Oba, Y.; Meyer-Rochow, V.B. Bioluminescent fishes and their eyes. In *Luminescence—An Outlook on the Phenomena and Their Applications*, 1st ed.; Thirumalai, J., Ed.; IntechOpen: Rijeka, Croatia, 2016; pp. 297–332. [\[CrossRef\]](#)

41. Poupin, J.; Cussatlegras, A.S.; Geistdoerfer, P. Plancton Marin Bioluminescent: Inventaire Documenté des Espèces et Bilan des Formes les plus Communes de la mer D'Iroise. Ph.D. Thesis, Ecole Navale, Laboratoire d'Océanographie Brest, Brest, France, 1999.
42. Duchatelet, L.; Claes, J.M.; Delroisse, J.; Flammang, P.; Mallefet, J. Glow on sharks: State of the art on bioluminescence research. *Oceans* **2021**, *2*, 822–842. [\[CrossRef\]](#)
43. Moraes, G.V.; Hannon, M.C.; Soares, D.M.; Stevani, C.V.; Schulze, A.; Oliveira, A.G. Bioluminescence in polynoid scale worms (Annelida: Polynoidae). *Front. Mar. Sci.* **2021**, *8*, 643197. [\[CrossRef\]](#)
44. Mallefet, J.; Martinez-Soares, P.; Eléaume, M.; O'hara, T.; Duchatelet, L. New insights on crinoid (Echinodermata; Crinoidea) bioluminescence. *Front. Mar. Sci.* **2023**, *10*, 1136138. [\[CrossRef\]](#)
45. Otjacques, E.; Pissarra, V.; Bolstad, K.; Xavier, J.C.; McFall-Ngai, M.; Rosa, R. Bioluminescence in cephalopods: Biodiversity, biogeography and research trends. *Front. Mar. Sci.* **2023**, *10*, 1161049. [\[CrossRef\]](#)
46. Bessho-Uehara, M.; Mallefet, J.; Haddock, S.H. Glowing sea cucumbers: Bioluminescence in the Holothuroidea. In *The World of Sea Cucumbers*, 1st ed.; Mercier, A., Hamel, J.F., Suhrbier, A., Pearce, C., Eds.; Academic Press: Cambridge, MA, USA, 2024; pp. 361–375.
47. Costello, M.J.; Bouchet, P.; Boxshall, G.; Fauchald, K.; Gordon, D.; Hoeksema, B.W.; Poore, G.C.B.; van Soest, R.W.M.; Sabine Stöhr, S.; Walter, T.C.; et al. Global coordination and standardisation in marine biodiversity through the World Register of Marine Species (WoRMS) and related databases. *PLoS ONE* **2013**, *8*, e51629. [\[CrossRef\]](#)
48. Bouchet, P.; Decock, W.; Lonneville, B.; Vanhoorne, B.; Vandepitte, L. Marine biodiversity discovery: The metrics of new species descriptions. *Front. Mar. Sci.* **2023**, *10*, 929989. [\[CrossRef\]](#)
49. World Register of Marine Species (WoRMS). Available online: <https://www.marinespecies.org/> (accessed on 15 January 2024).
50. Lau, E.S.; Oakley, T.H. Multi-level convergence of complex traits and the evolution of bioluminescence. *Biol. Rev.* **2021**, *96*, 673–691. [\[CrossRef\]](#)
51. Schultz, D.T.; Haddock, S.H.; Bredeson, J.V.; Green, R.E.; Simakov, O.; Rokhsar, D.S. Ancient gene linkages support ctenophores as sister to other animals. *Nature* **2023**, *618*, 110–117. [\[CrossRef\]](#)
52. Martini, S.; Schultz, D.T.; Lundsten, L.; Haddock, S.H. Bioluminescence in an undescribed species of carnivorous sponge (Cladorhizidae) from the deep sea. *Front. Mar. Sci.* **2020**, *7*, 576476. [\[CrossRef\]](#)
53. Harvey, E.N. *Bioluminescence*, 1st ed.; Academic Press, Inc.: New York, NY, USA, 1952; 649p.
54. Herring, P.J. *Bioluminescence in Action*, 1st ed.; Academic Press: London, UK, 1978; 570p.
55. Bessho-Uehara, M.; Francis, W.R.; Haddock, S.H. Biochemical characterization of diverse deep-sea anthozoan bioluminescence systems. *Mar. Biol.* **2020**, *167*, 114. [\[CrossRef\]](#)
56. Verdes, A.; Gruber, D.F. Glowing worms: Biological, chemical, and functional diversity of bioluminescent annelids. *Int. Comp. Biol.* **2017**, *57*, 18–32. [\[CrossRef\]](#) [\[PubMed\]](#)
57. Herring, P.J. Bioluminescence in decapod Crustacea. *J. Mar. Biol. Assoc. UK* **1976**, *56*, 1029–1047. [\[CrossRef\]](#)
58. Herring, P.J. Bioluminescence in the Crustacea. *J. Crustac. Biol.* **1985**, *5*, 557–573. [\[CrossRef\]](#)
59. Herring, P.J. Copepod luminescence. *Hydrobiologia* **1988**, *167*, 183–195. [\[CrossRef\]](#)
60. Vereshchaka, A.L.; Kulagin, D.N.; Lunina, A.A. A phylogenetic study of krill (Crustacea: Euphausiacea) reveals new taxa and co-evolution of morphological characters. *Cladistics* **2019**, *35*, 150–172. [\[CrossRef\]](#)
61. Chavtur, V.G.; Bashmanov, A.G. Pelagic ostracods of the new subtribe Conchoeciina (Ostracoda, Crustacea) from the North Pacific. *Zootaxa* **2018**, *4516*, 1–127. [\[CrossRef\]](#)
62. Herring, P.J. Bioluminescent echinoderms: Unity of function in diversity of expression. In *Echinoderm Research*, 1st ed.; Emson, R.H., Smith, A.B., Campbell, A.C., Eds.; A.A. Balkema: Rotterdam, The Netherlands, 1995; pp. 1–9.
63. Galt, C.P.; Grober, M.S.; Sykes, P.F. Taxonomic correlates of bioluminescence among appendicularians (Urochordata: Larvacea). *Biol. Bull.* **1985**, *168*, 125–134. [\[CrossRef\]](#)
64. Rodionova, N.S.; Rota, E.; Tsarkova, A.S.; Petushkov, V.N. Progress in the study of bioluminescent earthworms. *Photochem. Photobiol.* **2017**, *93*, 416–428. [\[CrossRef\]](#)
65. Rodionova, N.S.; Petushkov, V.N. Comparison of earthworm bioluminescent systems. *Dokl. Biochem. Biophys.* **2019**, *485*, 157–161. [\[CrossRef\]](#) [\[PubMed\]](#)
66. Polyotha, A.; Yano, D.; Mizuno, G.; Sutcharit, C.; Tongkerd, P.; Oba, Y.; Panha, S. A new discovery of the bioluminescent terrestrial snail genus *Phuphania* (Gastropoda: Dyakiidae). *Sci. Rep.* **2023**, *13*, 15137. [\[CrossRef\]](#) [\[PubMed\]](#)
67. Rosenberg, J.; Meyer-Rochow, V.B. Luminescent myriapoda: A brief review. In *Bioluminescence in Focus—A Collection of Illuminating Essays*; Meyer Rochow, V.B., Ed.; Research Signpost: Trivandrum, India, 2009; pp. 139–146.
68. Oba, Y.; Branham, M.A.; Fukatsu, T. The terrestrial bioluminescent animals of Japan. *Zool. Sci.* **2011**, *28*, 771–789. [\[CrossRef\]](#) [\[PubMed\]](#)
69. Rosa, S.P.; Costa, C. *Metapyrophorus pharolim* a new genus and species of Pyrophorini (Coleoptera, Elateridae, Agrypninae). *Rev. Bras. Entomol.* **2009**, *53*, 45–48. [\[CrossRef\]](#)
70. Oba, Y.; Hoffmann, K.H. Insect bioluminescence in the post-molecular biology era. *Insect Mol. Biol.* **2014**, *94*, 120.
71. Bi, W.X.; He, J.W.; Chen, C.C.; Kundrata, R.; Li, X.Y. *Sinopyrophorinae*, a new subfamily of Elateridae (Coleoptera, Elateroidea) with the first record of a luminous click beetle in Asia and evidence for multiple origins of bioluminescence in Elateridae. *ZooKeys* **2019**, *864*, 79–97. [\[CrossRef\]](#) [\[PubMed\]](#)

72. Falaschi, R.L.; Amaral, D.T.; Santos, I.; Domingos, A.H.; Johnson, G.A.; Martins, A.G.; Viroomal, I.B.; Pompéia, S.L.; Mirza, J.D.; Oliveira, A.G.; et al. *Neoceroplatus betaryiensis* nov. sp. (Diptera: Keroplatidae) is the first record of a bioluminescent fungus-gnat in South America. *Sci. Rep.* **2019**, *9*, 11291. [CrossRef] [PubMed]
73. Sano, T.; Kobayashi, Y.; Sakai, I.; Ogoh, K.; Suzuki, H. Ecological and histological notes on the luminous springtail, *Lobella* sp. (Collembola: Neanuridae), discovered in Tokyo, Japan. In *Bioluminescence-Analytical Applications and Basic Biology*; Suzuki, H., Ed.; IntechOpen: London, UK, 2019; pp. 63–74. [CrossRef]
74. Vega-Badillo, V.; Zaragoza-Caballero, S.; Ivie, M.A. A new genus of Phengodidae (Coleoptera) from the Neotropical Region. *Pap. Avulsos Zool.* **2020**, *60*, e202060-si. [CrossRef]
75. Catalogue of Life (COL). Available online: <https://www.catalogueoflife.org/> (accessed on 15 January 2024).
76. Kundrata, R.; Hoffmannova, J.; Hinson, K.R.; Keller, O.; Packova, G. *Rhagophthalmidae* Olivier, 1907 (Coleoptera, Elateroidea): Described genera and species, current problems, and prospects for the bioluminescent and paedomorphic beetle lineage. *ZooKeys* **2022**, *1126*, 55–130. [CrossRef] [PubMed]
77. Oba, Y.; Schultz, D.T. Firefly genomes illuminate the evolution of beetle bioluminescent systems. *Curr. Opin. Insect Sci.* **2022**, *50*, 100879. [CrossRef] [PubMed]
78. Desjardin, D.E.; Oliveira, A.G.; Stevani, C.V. Fungi bioluminescence revisited. *Photochem. Photobiol. Sci.* **2008**, *7*, 170–182. [CrossRef]
79. Ke, H.M.; Lu, M.R.; Chang, C.C.; Hsiao, C.; Ou, J.H.; Taneyama, Y.; Tsai, I.J. Evolution and Diversity of Bioluminescent Fungi. In *Evolution of Fungi and Fungal-like Organisms*; Pöggeler, S., James, T., Eds.; Springer International Publishing: Cham, Switzerland, 2023; pp. 275–294. [CrossRef]
80. Oba, Y.; Hosaka, K. The Luminous Fungi of Japan. *J. Fungi* **2023**, *9*, 615. [CrossRef]
81. Park, S.A.; Jeong, H.J.; Ok, J.H.; Kang, H.C.; You, J.H.; Eom, S.H.; Yeong, D.Y.; Lee, M.J. Bioluminescence capability and intensity in the dinoflagellate *Alexandrium* species. *Algae* **2021**, *36*, 299–314. [CrossRef]
82. Dunlap, P. Biochemistry and genetics of bacterial bioluminescence. In *Bioluminescence: Fundamentals and Applications in Biotechnology*; Thouand, G., Marks, R., Eds.; Springer: Berlin, Germany, 2014; Volume 1, pp. 37–64. [CrossRef]
83. Machado, R.A.; Wüthrich, D.; Kuhnert, P.; Arce, C.C.; Thönen, L.; Ruiz, C.; Zhang, X.; Robert, C.A.M.; Karimi, J.; Kamali, S.; et al. Whole-genome-based revisit of *Photorhabdus* phylogeny: Proposal for the elevation of most *Photorhabdus* subspecies to the species level and description of one novel species *Photorhabdus bodei* sp. nov., and one novel subspecies *Photorhabdus laumondii* subsp. *clarkei* subsp. nov. *Int. J. Syst. Evol. Microbiol.* **2018**, *68*, 2664–2681. [CrossRef]
84. Burtseva, O.; Kublanovskaya, A.; Baulina, O.; Fedorenko, T.; Lobakova, E.; Chekanov, K. The strains of bioluminescent bacteria isolated from the White Sea finfishes: Genera *Photobacterium*, *Aliivibrio*, *Vibrio*, *Shewanella*, and first luminous *Kosakonia*. *J. Photochem. Photobiol. B Biol.* **2020**, *208*, 111895. [CrossRef]
85. Machado, R.A.; Muller, A.; Ghazal, S.M.; Thanwisai, A.; Pagès, S.; Bode, H.B.; Hussein, M.A.; Khalil, K.M.; Tisa, L.S. *Photorhabdus heterorhabdus* subsp. *aluminescens* subsp. nov., *Photorhabdus heterorhabdus* subsp. *heterorhabdus* subsp. nov., *Photorhabdus australis* subsp. *thailandensis* subsp. nov., *Photorhabdus australis* subsp. *australis* subsp. nov., and *Photorhabdus aegyptia* sp. nov. isolated from *Heterorhabdus* entomopathogenic nematodes. *Int. J. Syst. Evol. Microbiol.* **2021**, *71*, 004610. [CrossRef]
86. Haddock, S.H.; Christianson, L.M.; Francis, W.R.; Martini, S.; Dunn, C.W.; Pugh, P.R.; Mills, C.E.; Osborn, K.J.; Seibel, B.A.; Choy, C.A.; et al. Insights Into the Biodiversity, Behavior, and Bioluminescence of Deep-Sea Organisms: Using Molecular and Maritime Technology. *Oceanography* **2017**, *30*, 38–47. [CrossRef]
87. Robinson, N.J.; Johnsen, S.; Brooks, A.; Frey, L.; Judkins, H.; Vecchione, M.; Widder, E. Studying the swift, smart, and shy: Unobtrusive camera-platforms for observing large deep-sea squid. *Deep-Sea Res. I Oceanogr. Res. Pap.* **2021**, *172*, 103538. [CrossRef]
88. Bell, K.L.; Chow, J.S.; Hope, A.; Quinzin, M.C.; Cantner, K.A.; Amon, D.J.; Cramp, J.E.; Rotjan, R.D.; Kamalu, L.; de Vos, A.; et al. Low-cost, deep-sea imaging and analysis tools for deep-sea exploration: A collaborative design study. *Front. Mar. Sci.* **2022**, *9*, 873700. [CrossRef]
89. Feng, J.C.; Liang, J.; Cai, Y.; Zhang, S.; Xue, J.; Yang, Z. Deep-sea organisms research oriented by deep-sea technologies development. *Sci. Bull.* **2022**, *67*, 1802–1816. [CrossRef]
90. Davis, M.P.; Holcroft, N.I.; Wiley, E.O.; Sparks, J.S.; Leo Smith, W. Species-specific bioluminescence facilitates speciation in the deep sea. *Mar. Biol.* **2014**, *161*, 1139–1148. [CrossRef] [PubMed]
91. Claes, J.M.; Nilsson, D.E.; Mallefet, J.; Straube, N. The presence of lateral photophores correlates with increased speciation in deep-sea bioluminescent sharks. *R. Soc. Open Sci.* **2015**, *2*, 150219. [CrossRef]
92. Ellis, E.A.; Oakley, T.H. High rates of species accumulation in animals with bioluminescent courtship displays. *Curr. Biol.* **2016**, *26*, 1916–1921. [CrossRef]
93. Matsui, T.; Rosenblatt, R.H. Review of the deep-sea fish family Platytroctidae (Pisces: Salmoniformes). *Bull. Scripps. Inst. Oceanogr. Univ. Calif.* **1984**, *26*, 1–59.
94. Claes, J.M.; Nilsson, D.E.; Straube, N.; Collin, S.P.; Mallefet, J. Iso-luminance counterillumination drove bioluminescent shark radiation. *Sci. Rep.* **2014**, *4*, 4328. [CrossRef]
95. Davis, A.L.; Sutton, T.T.; Kier, W.M.; Johnsen, S. Evidence that eye-facing photophores serve as a reference for counterillumination in an order of deep-sea fishes. *Proc. R. Soc. B* **2020**, *287*, 20192918. [CrossRef]
96. Denton, E.J.; Gilpin-Brown, J.B.; Wright, P.G. The angular distribution of the light produced by some mesopelagic fish in relation to their camouflage. *Proc. R. Soc. B* **1972**, *182*, 145–158. [CrossRef]

97. Young, R.E.; Kampa, E.M.; Maynard, S.D.; Mencher, F.M.; Roper, C.F. Counterillumination and the upper depth limits of midwater animals. *Deep Sea Res. Part I Oceanogr.* **1980**, *27*, 671–691. [[CrossRef](#)]
98. Herring, P.J.; Widder, E.A. Bioluminescence of deep-sea coronate medusae (Cnidaria: Scyphozoa). *Mar. Biol.* **2004**, *146*, 39–51. [[CrossRef](#)]
99. Plyuscheva, M.; Martin, D. On the morphology of elytra as luminescent organs in scale-worms (Polychaeta, Polynoidae). *Zoosymposia* **2009**, *2*, 379–389. [[CrossRef](#)]
100. Deheyn, D.D.; Wilson, N.G. Bioluminescent signals spatially amplified by wavelength-specific diffusion through the shell of a marine snail. *Proc. R. Soc. B* **2011**, *278*, 2112–2121. [[CrossRef](#)] [[PubMed](#)]
101. Jones, A.; Mallefet, J. Why do brittle stars emit light? Behavioural and evolutionary approaches of bioluminescence. *Cah. Biol. Mar.* **2013**, *54*, 729–734.
102. Gouveneaux, A.; Gielen, M.C.; Mallefet, J. Behavioural responses of the yellow emitting annelid *Tomopteris helgolandica* to photic stimuli. *Luminescence* **2018**, *33*, 511–520. [[CrossRef](#)] [[PubMed](#)]
103. Livermore, J.; Perreault, T.; Rivers, T. Luminescent defensive behaviors of polynoid polychaete worms to natural predators. *Mar. Biol.* **2018**, *165*, 149. [[CrossRef](#)]
104. Johnsen, S.; Frank, T.M.; Haddock, S.H.; Widder, E.A.; Messing, C.G. Light and vision in the deep-sea benthos: I. Bioluminescence at 500–1000 m depth in the Bahamian Islands. *J. Exp. Biol.* **2012**, *215*, 3335–3343. [[CrossRef](#)]
105. Mallefet, J. New lights on echinoderm's bioluminescence. In Proceedings of the 21st International Symposium on Bioluminescence & Chemiluminescence, Gijon, Spain, 31 May 2022.
106. DeLeo, D.; Bessho-Uehara, M.; McFadden, C.; Haddock, S.H.D.; Quattrini, A. Evolution of bioluminescence in Anthozoa with emphasis on Octocorallia. *Proc. R. Soc. B* **2024**, *in press*.
107. Haddock, S.H.; Case, J.F. A bioluminescent chaetognath. *Nature* **1994**, *367*, 225–226. [[CrossRef](#)]
108. Thuesen, E.V.; Goetz, F.E.; Haddock, S.H. Bioluminescent organs of two deep-sea arrow worms, *Eukrohnia fowleri* and *Caecosagitta macrocephala*, with further observations on bioluminescence in chaetognaths. *Biol. Bull.* **2010**, *219*, 100–111. [[CrossRef](#)] [[PubMed](#)]

Disclaimer/Publisher's Note: The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of MDPI and/or the editor(s). MDPI and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.

Supplementary references

1. Moore J.M., Moore, 2019. Phylogeny, Systematics, and evolution of functional morphology in Chaetopteridae (Annelida). PhD thesis, University of Florida, Gainesville, Florida, USA, 24 October 2019.
2. Dolganov, V.N. Description of new species of sharks of the family Squalidae (Squaliformes) from the north-western part of the Pacific Ocean with remarks of validity of *Etmopterus frontimaculatus*. *Zool. Zhurnal* **1986** 65(1), 149–153
3. Ng, S-L; Liu, K.-M.; Joung, S.L. Description of a new lanternshark species from the South China Sea, with additional description of *Etmopterus sheikoi* from Taiwanese waters (Squaliformes: Etmopteridae). *Raffles Bull. Zool.* **2024** 72, 26–41. (doi:10.26107/RBZ-2024-0002)
4. Luna, A.; Rocha, F.; Perales-Raya, C. A review of cephalopods (Phylum: Mollusca) of the Canary Current Large Marine Ecosystem (Central-East Atlantic, African coast). *J. Mar. Biol. Assoc. U. K.* **2021** 101(1), 1-25. (doi:10.1017/S0025315420001356)
5. Evans, A.B.; Bolstad, K.S.R. Diversity of the squid genus *Leachia* (Oegopsida: Cranchiidae) in the Pacific Ocean. *Mar. Biol.* **2023** 170(6), 72. (doi:10.1007/s00227-023-04215-2)
6. Braid, H.E.; Bolstad, K.S.R. Systematics of the Mastigoteuthidae Verrill, 1881 (Cephalopoda: Oegopsida) from New Zealand waters. *N. Z. J. Zool.* **2015** 42(3), 187-256. (doi:10.1080/03014223.2015.1063516)
7. Kelly, J.T. Systematics of the Octopoteuthidae Berry, 1912 (Cephalopoda: Oegopsida). PhD thesis, Auckland University of Technology, New Zealand, 30 October 2019.
8. Qiu, D.; Liu, B.; Guo, Y.; Lakmini, W.A.S.M.; Tan, Y.; Li, G.; Ke, Z., Li, K.;Huang, L. *Vampyroteuthis southchinaseais* sp. nov., a second Recent widely distributed species of Vampyromorpha (Cephalopoda, Coleoidea). *bioRxiv* **2023** 14 Feb. (doi:10.1101/2023.02.13.526086)
9. Fricke, R.; Durville, P. *Chlorophthalmus vulcanus*, a new species of greeneye from La Réunion, southwestern Indian Ocean (Teleostei: Chlorophthalmidae). *J. Fish Taxonomy* **2020** 17: 1-11.
10. Cohen, D.M.; Inada, T.; Iwamoto, T.; Scialabba, N. Gadiform Fishes of the World (Order Gadiformes; volume 10). An Annotated and Illustrated Catalogue of Cods, Hakes, Grenadiers and Other Gadiform Fishes Known to Date; Food and Agriculture Organization of the United Nations: Rome, Italy, 1990, pp. 139-140.
11. Nakayama, N. Grenadiers (Teleostei: Gadiformes: Macrouridae) of Japan and adjacent waters, a taxonomic monograph. *Megataxa* **2020** 3(1), 1-383. (doi:10.11646/MEGATAXA.3.1.1)
12. Prokofiev, A.M. A new species of the genus *Coelorinchus* from the Northwestern and Hawaiian submarine ridges (Pacific Ocean) (Teleostei, Gadiformes, Macrouridae). *Amur Zool. J.* **2020** 12(3), 299-310 (doi:10.15468/39omei)
13. Baldwin, Z.H.; Sparks, J.S. A new species of *Secutor* (Teleostei: Leiognathidae) from the western Indian Ocean. *Zootaxa* **2011** 2998(1), 39-47. (doi:10.11646/zootaxa.2998.1.3)
14. Miki, R.; Murase, A.; Wada, M. First record of the ponyfish *Deveximentum interruptum* (Teleostei: Leiognathidae) from Miyazaki Prefecture, Kyushu, Japan. *Biogeography* **2017** 19, 127-132 (doi:10.11358/biogeography.19.127)
15. Prokofiev, A.M.; Emelyanova, O.R.; Orlov, A.M.; Orlova, S.Y. A New Species of *Diaphus* Associated with Seamounts of the Emperor Chain, North-Western Pacific Ocean (Teleostei: Myctophiformes: Myctophidae). *J. Mar. Sci. Eng.* **2022** 10(1), 65. (doi:10.3390/jmse10010065)
16. Gibbs, R.H.J.; Clarke, T.A.; Gomon, J.R. Taxonomy and distribution of the stomioid fish genus *Eustomias* (Melanostomiidae), I: Subgenus *Nominostomias*. *Smithson. Contrib. Zool.* **1983** 380, 1–139.
17. Sparks, J.S. A new species of ponyfish (Teleostei:Leiognathidae:Photoplagios) from Madagascar, with a phylogeny for *Photoplagios* and comments on the status of *Equula lineolata* Valenciennes. *Am. Mus. Novit.* **2006** 3526, 1-20. (doi:10.1206/0003-0082(2006)3526[1:ANSOPT]2.0.CO;2)
18. Koeda, K.; Ho, H.C. Review of the genus *Eustomias* (Stomiiformes: Stomiidae: Melanostomiinae) of Taiwan, with descriptions of three new species. *Zootaxa* **2019** 4702(1), 94-106. (doi:10.11646/zootaxa.4702.1.14)
19. Pietsch, T.W. *Oceanic anglerfishes: extraordinary diversity in the deep sea*. Univ of California Press. Berkeley and Los Angeles, USA, 2009., pp. 1-576.
20. Schwarzhans, W. Head and otolith morphology of the genera *Hymenocephalus*, *Hymenogadus* and *Spicomacrurus* (Macrouridae), with the description of three new species. *Zootaxa* **2014** 3888(1), 1-73. (doi:10.11646/zootaxa.3888.1.1)
21. Gon, O. Revision of the cardinalfish subgenus *Jaydia* (Perciformes, Apogonidae, Apogon). *Trans. R. Soc. S. Afr.* **1997** 51(1), 147-194. (doi:10.1080/00359199609520605)
22. Fraser, T.H. A new species of Apogon (Perciformes: Apogonidae) from the Saya de Malha Bank, Indian Ocean, with redescrptions of *Apogon regani* Whitley, 1951, *A. gardineri* Regan, 1908, and *A. heraldi* (Herre, 1943). *Proc. Biol. Soc. Wash.* **2000** 113 (1), 249-263.

23. Mabuchi, K.; Fraser, T.H.; Song, H.; Azuma, Y.; Nishida, M. Revision of the systematics of the cardinalfishes (Percomorpha: Apogonidae) based on molecular analyses and comparative reevaluation of morphological characters. *Zootaxa* **2014** 3846(2), 151-203. (doi:10.11646/zootaxa.3846.2.1)
24. Sparks, J.S.; Chakrabarty, P. Description of a new genus of ponyfishes (Teleostei: Leiognathidae), with a review of the current generic-level composition of the family. *Zootaxa* **2015** 3947(2), 181-190. (doi:10.11646/zootaxa.3947.2.2)
25. Villarins, B.T.; Fischer, L.G.; Prokofiev, A.M.; Mincarone, M.M. A New Species of the Dragonfish Genus *Melanostomias* (Stomiidae: Melanostomiinae) from the Western Tropical Atlantic. *Ichthyol. Herpetol.* **2023** 111(2), 254-263. (doi:10.1643/i2022082)
26. Sazonov, Y. Three rare species of slickheads (Alepocephalidae), found for the first time in the Indian Ocean, with remarks about the status of *Microphotolepis schmidti*. *Oceanogr. Lit. Rev.* **1996** 6(43), 588.
27. Su, Y.; Lin, H.-C.; Ho, H.-C. A new cryptic species of the pineapple fish genus *Monocentris* (Family Monocentridae) from the western Pacific Ocean, with redescription of *M. japonica* (Houttuyn, 1782). *Zootaxa* **2022** 5189(1), 180-203. (doi:10.11646/zootaxa.5189.1.18)
28. Martin, R.P.; Olson, E.E.; Girard, M.G.; Smith, W.L.; Davis, M.P. Light in the darkness: new perspective on lanternfish relationships and classification using genomic and morphological data. *Mol. Phylogenetics Evol.* **2018** 121, 71-85. (doi:10.1016/j.ympev.2017.12.029)
29. Paulin, C.D. Review of the morid genera *Gadella*, *Physiculus*, and *Salilota* (Teleostei: Gadiformes) with descriptions of seven new species. *N. Z. J. Zool.* **1989** 16(1), 93-133.
30. Babu, K.I.; Ho, H.C.; Mariyambi, P.C.; Sureshkumar, S. Two new species of the codling fish genus *Physiculus* from Lakshadweep, India (Gadiformes: Moridae). *Zootaxa* **2022** 5104(1), 111-124. (doi:10.11646/zootaxa.5104.1.6)
31. Duchatelet, L.; Moris, V.C.; Tomita, T.; Mahillon, J.; Sato, K.; Behets, C.; Mallefet, J. The megamouth shark, *Megachasma pelagios*, is not a luminous species. *PLoS One* **2020** 15(11), e0242196. (doi:10.1371/journal.pone.0242196)
32. Bullard, S.A. In Memoriam: George William Benz (1 January 1954–9 February 2015). *Acta Ichthyol. Piscat.* **2016** 46(2), 141-162. (doi:10.3750/AIP2016.46.2.12)
33. Hubbs, C.L.; Iwai, T.; Matsubara, K. (1967). External and internal characters, horizontal and vertical distributions, luminescence, and food of the dwarf pelagic shark, *Euprotomiscrus bispinatus*. *Bull. Scripps Inst. Oceanogr. Univ. Calif.* **1967** 10, 1-81 (<https://escholarship.org/uc/item/0868j08s>)
34. de Carvalho, M.R. A synopsis of the deep-sea genus *Benthobatis* Alcock, with a redescription of the type species *Benthobatis moresbyi* Alcock, 1898 (Chondrichthyes, Torpediniformes, Narcinidae). In *Proceedings of the 5th Indo-Pacific Fish Conference*, Nouméa, New Caledonia, 3–8 November 1997
35. Munk, O. The eyes of *Ipnots murrayi* Gunther 1887. *Galathea Rep.* **1959** 3, 79-87.
36. Herring, P.J.; Morin, J.G. Bioluminescence in fishes. In *Bioluminescence in Action*, 1st ed.; Herring, P.J., ed.; Academic Press: London, UK, 1978; pp. 273-329.
37. Munk, O. On the eye and the so-called preorbital light organ of the isospondylous deep-sea fish, *Bathylaco nigricans* Goode and Bean, 1896. *Galathea Rep.* **1968** 9, 211-218.
38. Bertelsen, E.; Krefft, G.; Marshall, N.B. The fishes of the family Notosudidae. *Dana Rep.* **1976** 86, 1–114.
39. Robins, C.R. Additional comments on the structure and relationships of the mirapinniform fish family Kasidoroidae. *Bull. Mar. Sci.* **1966** 16(4), 696-701.
40. Haneda, Y. *Harpodon nehereus*, a nonluminous fish. *Pac. Sci.* **1950** 4, 135-138.
41. Paxton, J.R.; Trnski, T.; Johnson, G.D. Centomimididae. In *The living marine resources of the Eastern Central Atlantic. Volume 3: Bony fishes part 1 (Elopiformes to Scorpaeniformes)*, 1st ed.; Carpenter, K.E.; De Angelis, N.; Eds.; Food and Agriculture Organization: Rome, Italy, 2016; pp. 2174–2182.
42. Crane, J.M. Bioluminescence in the batfish *Dibranchius atlanticus*. *Copeia* **1968** 1968(2), 410-411.
43. Bowman, T.; Phillips, F. Bioluminescence in the freshwater amphipod, *Hyalella azteca*, caused by pathogenic bacteria. *Proc. Biol. Soc. Wash.* **1984** 97, 526–528.
44. Dougherty, L.F.; Johnsen, S.; Caldwell, R.L.; Marshall, N.J. A dynamic broadband reflector built from microscopic silica spheres in the ‘disco’ clam *Ctenoides ales*. *J. R. Soc. Interface* **2014** 11(98), 20140407. (doi: 10.1098/rsif.2014.0407)
45. Cohen, D.M. Notes on the morid fish genera *Lotella* and *Physiculus* in Japanese waters. *Jpn. J. Ichthyol.* **1979** 26(3), 225-230. (doi:10.11369/jji1950.26.225)
46. Inman, O.L. A pathogenic luminescent bacterium. *Biol. Bull.* **1927** 53, 197–200. (doi:10.2307/1537000)
47. Bousfield, E.L.; Klawe, W.L. *Orchestoidea gracilis*, a New Beach Hopper (Amphipoda: Talitridae) from Lower California, Mexico, with Remarks on Its Luminescence. *Bull. South. Calif. Acad. Sci.* **1963** 62, 1–8. (doi:10.3160/0038-3872-62.1.1)
48. Giard, A. Sur l’infection phosphorescente de talitres et autres crustacés. *C. R. Acad. Sci. Paris* **1889** 109, 503–506.

49. Yasaki, Y. Bacteriologic Studies on Bioluminescence: 1. Cause of Luminescence in the Fresh Water Shrimp, *Xiphocaridina Compressa* (De Haan). *J. Infect. Dis.* **1927** 404-407.
50. Lochhead, J.H. On the distribution of a marine cladoceran, *Penilia avirostris* Dana (Crustacea, Branchiopoda), with a note on its reported bioluminescence. *Biol. Bull.* **1954** 107(1), 92-105. (doi:10.2307/1538633)
51. Haddock, S.H.; Case, J.F. Bioluminescence spectra of shallow and deep-sea gelatinous zooplankton: ctenophores, medusae and siphonophores. *Mar. Biol.* **1999** 133(3), 571-582. (doi:10.1007/s002270050497)
52. Gershwin, L.A.; Zeidler, W.; Davie, P.J. Ctenophora of Australia. *Mem. Queensl. Mus.* **2010** 54(3), 1-45.
53. Cronin, H.A.; Cohen, J.H.; Berge, J.; Johnsen, G.; Moline, M.A. Bioluminescence as an ecological factor during high Arctic polar night. *Sci. Rep.* **2016** 6(1), 36374. (doi:10.1038/srep36374)
54. Dawydoff, C. Contribution à la connaissance des cténophores pélagiques des eaux de l'Indochine. *Bull. Biol. Fr. Belg.* **1946** 80 (2), 113-170.
55. Haddock, S.H.; Case, J.F. Not all ctenophores are bioluminescent: *Pleurobrachia*. *Biol. Bull.* **1995** 189(3), 356-362. (doi:10.2307/1542153)
56. Morin, J.G.; Hastings, J.W. Biochemistry of the bioluminescence of colonial hydroids and other coelenterates. *J. Cell. Physiol.* **1971** 77(3), 305-311. (doi:10.1002/jcp.1040770304)
57. Matsumoto, G.I.; Harbison, G.R. *In situ* observations of foraging, feeding, and escape behavior in three orders of oceanic ctenophores: Lobata, Cestida, and Beroida. *Mar. Biol.* **1993** 117, 279-287. (doi:10.1007/BF00345673)
58. Okada, Y.K. Light localization in Ctenophores. *Science* **1926** 63(1627), 262-262. (doi:10.1126/science.63.1627.262)
59. Harvey, E.N. Studies on Bioluminescence. XIII. Luminescence in the Coelenterates. *Biol. Bull.* **1921** 41(5), 220-287. (doi:10.2307/1536528)
60. Wiens, M.; Wang, X.; Unger, A.; Schröder, H.C.; Grebenjuk, V.A.; Pisignano, D.; Jochum, K.P.; Müller, W.E. Flashing light signaling circuit in sponges: endogenous light generation after tissue ablation in *Suberites domuncula*. *J. Cell. Biochem.* **2010** 111(6), 1377-1389. (doi:10.1002/jcb.22866)
61. Tur, J.M. Redescription and biological aspects of *Hormathia alba* (Andres, 1881), a luminescent sea anemone (Anthozoa, Actiniaria). *Helgoländer Meeresunters.* **1993** 47, 213-219. (doi:10.1007/BF02430359)
62. Herring, P.J. The spectral characteristics of luminous marine organisms. *Proc. R. Soc. B.* **1983** 220(1219), 183-217. (doi:10.1098/rspb.1983.0095)
63. Herring, P.J. Bioluminescence in invertebrates other than insects. In *Bioluminescence in Action*, 1st ed.; Herring, P.J., ed.; Academic Press: London, UK, 1978; pp. 199-240.
64. Herring, P.J. Observations on bioluminescence in some deep-water anthozoans. In *Proceedings of the Fifth International Conference on Coelenterate Biology*, Southampton, UK, 10-14 July 1989.
65. Widder, E.A.; Latz, M.I.; Case, J.F. Marine bioluminescence spectra measured with an optical multichannel detection system. *Biol. Bull.* **1983** 165(3), 791-810. (doi:10.2307/1541479)
66. Williams, G.C. The Pennatulacea of Southern Africa. *Ann. S. Afr. Mus.* **1990** 99, 31-119.
67. Muzik, K. A bioluminescent gorgonian, *Lepidisis olapa*, new species (Coelenterata: Octocorallia), from Hawaii. *Bull. Mar. Sci.* **1978** 28(4), 735-741.
68. Ramesh, C.; Meyer-Rochow, V.B. Bioluminescence in aquatic and terrestrial organisms elicited through various kinds of stimulation. *Aquat. Ecol.* **2021** 55(3), 737-764. (doi:10.1007/s10452-021-09875-0)
69. Williams, G.C. First record of a bioluminescent soft coral: description of a disjunct population of *Eleutherobia grayi* (Thomson and Dean, 1931) from the Solomon Islands, with a review of bioluminescence in the Octocorallia. *Proc. Calif. Acad. Sci.* **2001** 52, 209-225.
70. Francis, W.R.; de Vilar, A.S. Bioluminescence and fluorescence of three sea pens in the north-west Mediterranean Sea. *bioRxiv.* **2020** 1-15. (doi:10.1101/2020.12.08.416396)
71. Wampler, J.E.; Karkhanis, Y.D.; Morin, J.G.; Cormier, M.J. Similarities in the bioluminescence from the Pennatulacea. *Biochim. Biophys. Acta Bioenerg.* **1973** 314(1), 104-109. (doi:10.1016/0005-2728(73)90068-6)
72. Geetha, S.; Kumar, J.Y.; Sornaraj, R. Observation of Pennatulacea (Order) From Gulf of Mannar Biosphere Reserve, Indian. *Scholars Acad. J. Biosci.* **2013** 1(6), 309-312.
73. Tizard, T.H.; Moseley, H.N.; Buchanan, H.Y.; Murray, J. Narrative of the cruise of H.M.S. Challenger with a general account of the scientific results of the expedition. Report on the Scientific Results of the Voyage of the H.M.S. Challenger during the years 1873-76. *Narrative* **1885** 1 (first part), 1-509.
74. Harvey, E.N. Studies on bioluminescence: VI. Light production by a Japanese Pennatulid, *Cavernularia haberi*. *Am. J. Physiol.* **1917** 42(2), 349-358.
75. Cormier, M.J.; Hori, K.; Anderson, J.M. Bioluminescence in coelenterates. *Biochim. Biophys. Acta Bioenerg.* **1974** 346(2), 137-164. (doi:10.1016/0304-4173(74)90007-X)
76. Panceri, P. Etudes sur la Phosphorescence des Animaux Marins. 6. Sur un Pennatulaire phosphorescent encore inconnu dans les environs de Naples. *Ann. Sci. Nat.* **1872** 5(16), 387-390.
77. Kumar, J.S.; Raghunathan, C.; Venkataraman, K. New Records of Octocorallia (Order: Pennatulacea) from Indian Waters. *Int. J. Appl. Biol. Pharm.* **2014** 5(2), 52-56.

78. Nicol, J.A. Observations on the luminescence of *Pennatulula phosphorea*, with a note on the luminescence of *Virgularia mirabilis*. *J. Mar. Biol. Assoc. U. K.* **1958** 37(3):551–563.
79. Cutress, C.E.; Pequegnat, W.E. Three new species of *Zoantharia* from California. *Pac. Sci.* **1960** 14, 89–100.
80. Latz, M.I.; Frank, T.M.; Case, J.F. Spectral composition of bioluminescence of epipelagic organisms from the Sargasso Sea. *Mar. Biol.* **1988** 98:441 – 6. (doi:10.1007/BF00391120)
81. Mackie, G.O. Defensive strategies in planktonic coelenterates. *Mar. Freshw. Behav. Physiol.* **1995** 26(2-4), 119–129. (doi:10.1080/10236249509378933)
82. Hartlaub, C.C. Craspedote Medusen. Teil 1, Lieferung 3, Tiaridae. *Nordisches Plankton* **1914** 6, 237–363.
83. Davenport, D.; Nicol, J.C. Luminescence in hydromedusae. *Proc. R. Soc. B.* **1955** 144(916), 399–411. (doi:10.1098/rspb.1955.0066)
84. Gershwin, L.A.; Zeidler, W.; Davie, P.J. Medusae (Cnidaria) of Moreton Bay, Queensland, Australia. *Mem. Queensl. Mus.* **2010** 54(3), 47–108.
85. Clarke, G.L., Conover, R.J., David, C.N.; Nicol, J.A.C. Comparative studies of luminescence in copepods and other pelagic marine animals. *J. Mar. Biol. Assoc. U. K.* **1962** 42(3), 541–564. (doi:10.1017/S0025315400054254)
86. Morin, J.G.; Hastings, J.W. Energy transfer in a bioluminescent system. *J. Cell. Physiol.* **1971** 77(3), 313–318. (doi:10.1002/jcp.1040770305)
87. Russel, F.S. The medusae of the British Isles. Cambridge University Press, Cambridge, UK, 1953; 529 pp.
88. Levine, L.D.; Ward, W. (1982). Isolation and characterization of a photoprotein, "phialidin", and a spectrally unique green-fluorescent protein from the bioluminescent jellyfish *Phialidium gregarium*. *Comp. Biochem. Physiol. B.* **1982** 72(1), 77–85. (doi:10.1016/0305-0491(82)90013-X)
89. Kato, K. On a luminous hydroid, *Clytia linearis*. *Zool. Mag. Tokyo* **1949** 58, 17–18.
90. Morin, J.G. Coelenterata bioluminescence. In *Coelenterate Biology: Reviews and New Perspectives*; Muscatine, L.; Lenhoff, H.M., Eds., Academic Press, New York, USA, 1974; pp. 397 – 438.
91. Panceri, P. Luminous Campanulariae. *Nature* **1877** 16, 30.
92. Romanes, G.J. An account of some new species, varieties, and monstrous forms of medusae. *Zool. J. Linn. Soc.* **1876** 12(64), 524–531.
93. Widder, E.A.; Bernstein, S.A.; Bracher, D.F.; Case, J.F.; Reisenbichler, K.R.; Torres, J.J.; Robison, B.H. Bioluminescence in the Monterey Submarine Canyon: image analysis of video recordings from a midwater submersible. *Mar. Biol.* **1989** 100(4), 541–551. (doi:10.1007/BF00394831)
94. Morin, J.G.; Reynolds, G.T. Luminescence and related fluorescence in coelenterates. *Biol. Bull.* **1970** 139 (2), 430–431.
95. Gosse, P.H. (1853). *A naturalist's rambles on the Devonshire coast* (Vol. 11): John Van Voorst, London, UK, 1853; pp. 1–451.
96. Freeman, G.; Ridgway, E.B. Endogenous photoproteins, calcium channels and calcium transients during metamorphosis in hydrozoans. *Roux's Arch. Dev. Biol.* **1987** 196, 30–50. (doi:10.1007/BF00376020)
97. Widder, E.A. Midwater Bioluminescence Assessment in the West Alboran Gyre (Mediterranean Sea) - Cruise Report RN Seward Johnson April 5–25, 1991 Cruise No. 90–092. Harbor Branch Oceanographic Institution: Gainesville, Florida, USA, 1991; pp. 1–100.
98. Lapota, D.; Galt, C.; Losee, J.R.; Huddell, H.D.; Orzech, J.K.; Neilson, K.H. (1988). Observations and measurements of planktonic bioluminescence in and around a milky sea. *J. Exp. Mar. Biol. Ecol.* **1988** 119(1), 55–81. (doi:10.1016/0022-0981(88)90152-9)
99. Haddock, S.H.D.; Pugh, P.R.; Mills, C.E.; Harbison, G.R. Medusae, siphonophores and ctenophores of the Alborán Sea, southwestern Mediterranean. *Sci. Mar.* **1996** 60(1), 145–163.
100. Pugh, P.; Haddock, S.H.D. Description of two new species of the genus *Erenna* (Siphonophora: Physonectae: Erennidae), with notes on recently collected specimens of other *Erenna* species. *Zootaxa* **2016** 4189(3), 401. (doi:10.11646/zootaxa.4189.3.1)
101. Haddock, S.H., Dunn, C.W.; Pugh, P.R.; Schnitzler, C.E. Bioluminescent and red-fluorescent lures in a deep-sea siphonophore. *Science* **2005** 309(5732), 263–263. (doi:10.1126/science.1110441)
102. Pugh, P.R. A revision of the family Forskaliidae (Siphonophora, Physonectae). *J. Nat. Hist.* **2003** 37, 1281–1327. (doi:10.1080/00222930110120638)
103. Nicol, J.A.C. Observations on Luminescence in Pelagic Animals. *J. Mar. Biol. Assoc. U. K.* **1958** 37, 705–752. (doi:10.1017/S0025315400005749)
104. Haddock, S.H.D.; Dunn, C.D.; Pugh, P.R. A re-examination of siphonophore terminology and morphology, applied to the description of two new prayine species with remarkable bio-optical properties. *J. Mar. Biol. Assoc. U. K.* **2005** 85 (3), 695–707. (doi:10.1017/S0025315405011616)
105. Pugh, P.R. A review of the family Sphaeronectidae (class Hydrozoa, order Siphonophora), with the description of three new species. *Zootaxa* **2009** 2147, 1–48. (doi:10.11646/zootaxa.2147.1.1)
106. The Bioluminescence Web Page. Available online: <https://biolum.eemb.ucsb.edu/> (accessed on 15 January 2024)

107. Herring, P.J.; Widder, E.A. Bioluminescence of deep-sea coronate medusae (Cnidaria: Scyphozoa). *Mar. Biol.* **2004** *146*, 39-51. (doi:10.1007/s00227-004-1430-7)
108. Gershwin, L.A.; Collins, A.G. A preliminary phylogeny of Pelagiidae (Cnidaria, Scyphozoa), with new observations of *Chrysaora colorata* comb. nov. *J. Nat. Hist.* **2002** *36*(2), 127-148. (doi:10.1080/00222930010003819)
109. Kato, K. A new luminous species of the Nemertea, *Emplectonema kandai* sp. nov. *Jpn. J. Zool.* **1939** *8*(2), 251-254.
110. Haneda, Y. Luminous organisms of Japan and the Far East. In *The Luminescence of Biological Systems*; Johnson, F.H., Ed; American Association for the Advancement of Science, Washington, DC, USA, 1955; pp. 335.
111. Knox, G.A.; Green, K.M. The Polychaetes of New Zealand part 3: Lysaretidae. *J. R. Soc. N. Z.* **1972** *2*(3), 431-434. (doi:10.1080/03036758.1972.10421827)
112. Ben-Eliahu, M.N. Polychaete cryptofauna from rims of similar intertidal vermetid reefs on the Mediterranean coast of Israel and in the Gulf of Elat: Sedentaria. *Isr. J. Ecol. Evol.* **1976** *25*(4), 121-155. (doi:10.1080/00212210.1976.10688434)
113. Kin, I.; Oba, Y. Bioluminescent properties of *Mesochaetopterus japonicus* (Polychaeta: Chaetopteridae) with comparison to *Chaetopterus*, *Plankton Benthos Res.* **2020**, *15*(3), 228-231. (doi:10.3800/pbr.15.228)
114. Deheyn, D.D.; Enzor, L.A.; Dubowitz, A.; Urbach, J.S.; Blair, D. Optical and physicochemical characterization of the luminous mucous secreted by the marine worm *Chaetopterus* sp. *Physiol. Biochem. Zool.* **2013** *86*(6), 702-715. (doi:10.1086/673869)
115. Nishi, E.; Arai, H.; Sasanuma, S.-I. A new species of *Chaetopterus* (Polychaeta: Chaetopteridae) from off Tokyo Bay, Central Japan, with comments on its bioluminescence. *Actinia* **2000** *13*, 1-12.
116. McIntosh, W.C. On the abyssal theory of light, the protozoic-absorption theory, and the azoic-mud theory, propounded in the reports of HMS 'Porcupine,' 1869 and 1870. *Ann. Mag. Nat. Hist.* **1872** *9*(49), 1-13.
117. Anctil, M. Luminescence control in isolated notopods of the tube-worm *Chaetopterus variopedatus*: effects of cholinergic and GABAergic drugs. *Comp. Biochem. Physiol. C Toxicol. Pharmacol.* **1981** *68*(2), 187-194. (doi:10.1016/0306-4492(81)90014-9)
118. Osborn, K.J.; Rouse, G.W.; Goffredi, S.K.; Robison, B. H. Description and relationships of *Chaetopterus pugaporcinus*, an unusual pelagic polychaete (Annelida, Chaetopteridae). *Biol. Bull.* **2007** *212*(1), 40-54. (doi:10.2307/25066579)
119. Nicol, J.A.C. Spectral composition of the light of *Chaetopterus*. *J. Mar. Biol. Assoc. U. K.* **1957** *36*(3), 629-642. (doi: 10.1017/S0025315400025893)
120. Nishi, E.; Hickman, C.P.; Bailey-Brock, J.H. *Chaetopterus* and *Mesochaetopterus* (Polychaeta: Chaetopteridae) from the Galapagos Islands, with descriptions of four new species. *Proc. Acad. Nat. Sci. Philadelphia* **2009** *158*, 239-259. (doi:10.1635/053.158.0113)
121. Nishi, E.; Hsieh, H.-L. Chaetopterid polychaetes from Taiwan and Okinawa Island (Japan), with descriptions of two new species. *Zool. Stud.* **2009** *48*(3), 370-379.
122. Nishi, E. Redescription of *Mesochaetopterus selangolus* (Polychaeta: Chaetopteridae) based on type specimens and recently collected material from Morib Beach, Selangor State, Malaysia. *Pac. Sci.* **1999** *53*: 24-36.
123. Zhang, Y.; Rouse, G.W.; Qiu, J.-W. A new species of *Mesochaetopterus* (Annelida, Chaetopteridae) from Hong Kong, with comments on the phylogeny of the family. *Zootaxa* **2015** *3974*(4): 495-506. (doi:10.11646/zootaxa.3974.4.2)
124. Petersen, J.A.; Fanta, E.S. On two new species of *Mesochaetopterus* (Polychaeta) from the Brazilian coast. *Beitr. Neotrop. Fauna* **1969** *6*(2): 120-136. (doi:10.1080/01650526909360422)
125. Raymond, J.A.; DeVries, A.L. Bioluminescence in McMurdo Sound, Antarctica. *Limnol. Oceanogr.* **1976** *21*(4), 599-602. (doi:10.4319/lo.1976.21.4.0599)
126. Lecuyer, B.; Arrio, B. Some spectral characteristics of the light emitting system of the polynoid worms. *Photochem. Photobiol.* **1975** *22*(5), 213-215. (doi:10.1111/j.1751-1097.1975.tb06738.x)
127. Nicol, J.A.C. Spectral composition of the light of polynoid worms. *J. Mar. Biol. Assoc. U. K.* **1957** *36*, 529 - 38. (doi:10.1017/S0025315400025820)
128. Andrews, E.A. Report upon the Annelida Polychaeta of Beaufort, North Carolina. *Proc. U. S. Natl. Mus.* **1891** *14*(852), 277-302.
129. Salazar-Silva, P. Redescription of *Harmothoe aculeata* (Polychaeta: Polynoidae) and description of three new similar species from the Grand Caribbean region. *J. Mar. Biol. Assoc. U. K.* **2003** *83*(1), 55-64. (doi:10.1017/S0025315403006805h)
130. Khvorostanski, C. Sur la lumination des animaux de la mer Blanche. *Inter. Congr. Zool. Moscow* **1892** *2*, 185-186.
131. Fauvel P. Polychètes errantes. Faune de France: LeChavelier, Paris, France, 1923; pp. 1-488.
132. Darboux, J.G. Recherche sur les Aphroditens. *Trav. Instn. Zool. U Montpellier et Stat. Mar. Cette. Mem.* **1899** *6*.
133. Herrera, A.A. Electrophysiology of bioluminescent excitable epithelial cells in a polynoid polychaete worm. *J. Comp Physiol.* **1979** *129*, 67-78. (doi:10.1007/BF00679913)
134. Lloyd, R.E.; Captain, I.M.S.; WILLEY, A.; Muscum, C. Notes on the phosphorescence in marine animals. *Rec. Indian Mus.* **1907** *1*, 257.

135. Nicol, J. Luminescence in polynoid worms. *J. Mar. Biol. Assoc. U. K.* **1953** 32(1), 65-84. (doi:10.1017/S0025315400011437)
136. Taboada, S.; Serra Silva, A.; Díez-Vives, C.; Neal, L.; Cristobo, J.; Ríos, P.; Hestetun, T.J., Clark, B.; Rossi, M.E., Junoy, j.; Navarro, J.; Riesgo, A. Sleeping with the enemy: unravelling the symbiotic relationships between the scale worm *Neopolynoe chondrocladiae* (Annelida: Polynoidae) and its carnivorous sponge hosts. *Zool. J. Linn. Soc.* **2021** 193(1), 295-318. (doi:10.1093/zoolinnean/zlaa146)
137. Panceri, P. Catalogo degli Anellidi, Gefirei e Turbellarie d'Italia. *Atti Soc. Ital. Sc. N. Milano* **1875** 18, 2-3.
138. Pettibone, M.H. Marine polychaete worms of the New England region. I. Aphroditidae through Trochochaetidae. *Bull. U.S. Natl. Mus.* **1963** 227 (part 1), 1-356. (doi:10.5479/si.03629236.227.1)
139. Bassot, J.M. Sites actifs et facilitation dans trois systèmes bioluminescents. *Arch. Zool. Exper. Gen.* **1979** 120(1), 5-24.
140. Verdes, A., Álvarez-Campos, P.; Nygren, A.; San Martín, G.; Deheyn, D.D.; Gruber, D.F.; Holford, M. Molecular phylogeny and evolution of bioluminescence in *Odontosyllis* (Annelida, Syllidae). *Invert. System.* **2022** 36(7), 622-630. (doi:10.1071/IS22007)
141. Shimomura, O.; Johnson, F.H.; Saiga, Y. Partial purification and properties of the *Odontosyllis* luminescence system. *J. Cell. Comp. Physiol.* **1963** 61, 275 - 92. (doi:10.1002/jcp.1030590302)
142. Atputhanathan, M. Study on two annelids worms *Pontodrilus bermudensis*, Beddard, 1891, *Odontosyllis graveli*, Fauvel, 1928. In *Hydrobiological Survey of the Thondaimannar Lagoon Bulletin no. 6.*; Kugathasan, K.S., Ed.; Hydrobiological Survey Research Council of the Northern Province Science Teachers Association: Jaffna, Sri Lanka, 1968; pp. 1-73 pp.
143. Fukuda, M.V.; de Matos Nogueira, J.M. A new species of *Odontosyllis* Claparede, 1863 (Polychaeta: Syllidae: Eusyllinae), and description of Brazilian material of *Odontosyllis cf. fulgurans* (Audouin and Milne Edwards, 1834). *Zool. Stud.* **2006** 45(2), 223-233.
144. van Lummel, L.A.E. Over lichtende wormpjes in de baai van Batavia. *De Trop. Nat.* **1932** 21(6), 85-87.
145. Gaston, G.R.; Hall, J. Lunar periodicity and bioluminescence of swarming *Odontosyllis luminosa* (Polychaeta: Syllidae) in Belize. *Gulf Caribb. Res.* **2000** 12(1), 47-51. (doi:10.18785/gcr.1201.07)
146. Mitani, Y.; Yasuno, R.; Futahashi, R.; Ohmiya, Y. Luciferase gene of a Caribbean fireworm (Syllidae) from Puerto Rico. *Sci. Rep.* **2019** 9, 13015. (doi:10.1038/s41598-019-49538-7)
147. Ehrenberg, C.G. Das Leuchten des Meeres. Neue Beobachtungen nebst Übersicht der Hauptmomente der geschichtlichen Entwicklung dieses merkwürdigen Phänomens. *Konigl. Akad. Wiss.* **1836** 1834, 411-575.
148. Deheyn, D.D.; Latz, M.I. Internal and secreted bioluminescence of the marine polychaete *Odontosyllis phosphorea* (Syllidae). *Invertebr. Biol.* **2009** 12, 31-45. (doi:10.1111/j.1744-7410.2008.00149.x)
149. Daly, J. Reversible epitoky in the life history of the polychaete *Odontosyllis polycera* (Schmarda 1861). *J. Mar. Biol. Assoc. U. K.* **1975** 55(2), 327-344. (doi:10.1017/S0025315400015976)
150. Mitani, Y.; Yasuno, R.; Isaka, M.; Mitsuda, N.; Futahashi, R.; Kamagata, Y.; Ohmiya, Y. Novel gene encoding a unique luciferase from the fireworm *Odontosyllis undecimdonta*. *Sci. Rep.* **2018** 8(1), 1-7. (doi:10.1038/s41598-018-31086-1)
151. Bonhomme, C. La Bioluminescence de quelques annélides méditerranéennes: (Etude histologique et hystophysiologique). *Nat. Monspel., Sér. Zool.* **1958** 2, 7-137.
152. Gouveneaux, A.; Flood, P.R.; Mallefet, J. Unexpected diversity of bioluminescence in planktonic worms. *Luminescence* **2017** 32(3), 394-400. (doi:10.1002/bio.3192)
153. Evstignev, P.V.; Williams, R.; Piontkovski, S.A.; Bileva, O.K. Spatio-temporal succession and distribution of bioluminescent organisms of the central Atlantic Ocean. In *Proceedings of the 6th International Symposium on Bioluminescence and Chemiluminescence*, Cambridge, UK, 5-8 September 1994.
154. Salerno, V. Ulteriori particolari sulla conduzione del materiale presente nelle pinne di *Tomopteris Johnstonella nationalis* Apstein. *Atti R. Accad. Pelorit., Cl. Sci. Fis. Mat. Biol.* **1965** 11, 203-209.
155. Greeff, R. Ueber die rosettenförmigen leuchtorgane der tomopteriden und zwei neue arten von *Tomopteris*. *Zool. Anz.* **1882** 5, 384-7.
156. Oliveira, A.G.; Amaral, D.T.; Hannon, M.C.; Schulze, A. First record of bioluminescence in a sipunculan worm. *Front. Mar. Sci.* **2021** 8, 762706. (doi:10.3389/fmars.2021.762706)
157. Gibbs, P.E. Polychaete annelids from the Cook Islands. *J. Zool.* **1972** 168(2), 199-220. (doi:10.1111/j.1469-7998.1972.tb01347.x)
158. Averincev, V.G. *Chauvinelia arctica*, sp. n. (Acrocirridae, Polychaeta) from the Canadian plain. *Issled. Fauny Morej Zool. Inst., Akad. Nauk SSSR* **1980** 25: 57-62.
159. Osborn, K.J.; Haddock, S.H.; Pleijel, F.; Madin, L.P.; Rouse, G.W. Deep-sea, swimming worms with luminescent "bombs". *Science* **2009** 325(5943), 964-964. (doi:10.1126/science.1172488)
160. Osborn, K.J.; Haddock, S.H.; Rouse, G.W. *Swima* (Annelida, Acrocirridae), holopelagic worms from the deep Pacific. *Zool. J. Linn. Soc.* **2011** 163(3), 663-678. (doi:10.1111/j.1096-3642.2011.00727.x)
161. Bonhomme, C. La luminescence de *Heterocirrus bioculatus* Keferstein. *Bull. Inst. Océanogr. Monaco* **1944** 871, 2 - 7.

162. Petersen, M.E. Reproduction and development in Cirratulidae (Annelida: Polychaeta). *Hydrobiologia* **1999** 402, 107 – 128. (doi:10.1023/A:1003736408195)
163. Verrill, A.E. Notice of the remarkable marine fauna occupying the outer banks off the southern coast of New England, No. 7, and of some additions to the fauna of Vineyard Sound. *Am. J. Sci.* **1882** 24, 360 – 371.
164. Gibbs, P.E. A comparative study of reproductive cycles in four polychaete species belonging to the family Cirratulidae. *J. Mar. Biol. Ass. U. K.* **1971** 51, 745 – 769. (doi:10.1017/S002531540001794X)
165. Berkeley, E.; Berkeley, C. Notes on Polychaeta from the coast of Western Canada. *J. Nat. Hist.* **1950** 3(25), 50-69.
166. Molisch, H. *Leuchtend Pflanzen Eine physiologische Studie*. Gustav Fischer Verlag: Jena, Germany, 1904; pp.1-198.
167. Kin, I.; Jimi, N.; Oba, Y. Bioluminescence properties of *Thelepus japonicus* (Annelida: Terebelliformia). *Luminescence* **2019** 34(6), 602-606. (doi:10.1002/bio.3643)
168. Living Lights List. Available online: https://www3.chubu.ac.jp/faculty/oba_yuichi/living_light_list/ (accessed on 15 January 2024)
169. Francis, W.R.; Powers, M.L.; Haddock, S.H.D. Bioluminescence spectra from three deep-sea polychaete worms. *Mar. Biol.* **2016** 163, 255. (doi:10.1007/s00227-016-3028-2)
170. Jimi, N.; Bessho-Uehara, M.; Nakamura, K.; Sakata, M.; Hayashi, T.; Kanie, S.; Mitani, Y.; Ohmiya, Y.; Tsuyuki, A.; Ota, Y.; Woo, S.P.; Ogoh, K. Investigating the diversity of bioluminescent marine worm *Polycirrus* (Annelida), with description of three new species from the Western Pacific. *R. Soc. Open Sci.* **2023** 10(3), 230039. (doi:10.1098/rsos.230039)
171. Dahlgren, U. The production of light by animals. Light production as seen in worms. *J. Franklin Inst.* **1916** 181, 659-696.
172. Bonhomme, C. Sur un mode particulier d'élimination des produits photogenes chez *Polycirrus caliendrum* Clap., et *Polycirrus aurantiacus* Grube. *Bull. Soc. Zool. Fr.* **1953** 77, 341.
173. Huber, M.E.; Arneson, C.A.; Widder, E.A. Extremely blue bioluminescence in the polychaete *Polycirrus perplexus* (Terebellidae). *Bull. Mar. Sci.* **1989** 44(3), 1236-1239.
174. Verrill, A.E. Notice of recent additions to the marine invertebrata of the northeastern coast of America, with descriptions of new genera and species and critical remarks on others. Part I. Annelida, Gephyraea, Nemertina, Nematoda, Polyzoa, Tunicata, Mollusca, Anthozoa, Echinodermata, Porifera. *Proc. U. S. Natl. Mus.* **1879** 2, 165 – 205.
175. Verrill, A.E. Additions to the Turbellaria, Nemertina, and Annelida of the Bermudas, with revisions of some New England genera and species. *Trans. Conn. Acad.* **1900** 10(2), 595-671.
176. Haneda, Y. Luminous Organisms. Kouseisha-Kouseikaku: Tokyo, Japan, 1985; pp. 1-318.
177. Harvey, E.N. Oxygen and luminescence, with a description of methods for removing oxygen from cells and fluids. *Biol. Bull.* **1926** 51(2), 89-97.
178. Kosuge, T. Bioluminescence of *Cucullaea labiata* (Mollusca: Bivalvia: Cucullaeidae) collected in Vietnam. *J. Nanki Biol. Soc.* **2018** 60(1), 53-55.
179. Haneda, Y. Luminosity in *Rocellaria grandis* (Deshayes)(Lamellibranchia). *Sci. South Seas* **1939** 2, 36-39.
180. Okada, Y.K. Luminescence chez les Mollusques lamellibranches. *Bull. Soc. Zool. Fr.* **1927** 52, 95 – 98.
181. Nicol, J.A.C. (1958). Spectral composition of the light of *Pholas dactylus* L. *J. Mar. Biol. Ass. U. K.* **1958** 37, 43. (doi:10.1017/S0025315400014806)
182. Robison, B.H.; Young, R.E. Bioluminescence in pelagic octopods. *Pac. Sci.* **1981** 35, 39 – 44.
183. Johnsen, S.; Balser, E.J.; Fisher, E.C.; Widder, E.A. Bioluminescence in the deep-sea cirrate octopod *Stauroteuthis syrtensis* Verrill (Mollusca: Cephalopoda). *Biol. Bull.* **1999** 197(1), 26-39. (doi:10.2307/1542994)
184. Guerrero-Kommritz, J.; Cantera, J.; León, J.; Puentes, V. First observation on *Cirrothauma* sp. in the Colombian Southern Caribbean. *Biodiv. Internat. J.* **2018** 2(3), 272-273. (doi:10.15406/bij.2018.02.00072)
185. Collins, M.A.; Henriques, C. A revision of the family Stauroteuthidae (Octopoda: Cirrata) with redescrptions of *Stauroteuthis syrtensis* and *S. gilchristi*. *J. Mar. Biol. Ass. U. K.* **2000** 80(4), 685-697. (doi:10.1017/S0025315400002514)
186. Johnsen, S.; Balser, E.J.; Widder, E.A. Light-emitting suckers in an octopus. *Nature* **1999** 398(6723), 113-114. (doi:10.1038/18131)
187. Lu, C.C. A new family of myopsid squid from Australasian waters (Cephalopoda: Teuthida). *Phuket Mar. Biol. Cent.* **2005** 66: 71-82.
188. Alexeyev, D.O. The systematic position of bioluminescent squids of family Loliginidae (Cephalopoda, Myopsida). *Zool. Zhurnal* **1992** 71: 12 – 23.
189. Anderson, F.E.; Bergman, A.; Cheng, S.H.; Pankey, M.S.; Valinassab, T. Lights out: the evolution of bacterial bioluminescence in Loliginidae. *Hydrobiologia* **2014** 725, 189-203. (doi:10.1007/s10750-013-1599-1)

190. Guerrero-Ferreira, R.C.; Nishiguchi, M.K. Biodiversity among luminescent symbionts from squid of the genera *Uroteuthis*, *Loliolus* and *Euprymna* (Mollusca: Cephalopoda). *Cladistics* **2007** *23*, 497 – 506. (doi:10.1111/j.1096-0031.2007.00155.x)
191. Vecchione, M.; Brakonietcki, T.F.; Natsukari, Y.; Hanlon, R.T. A provisional generic classification of the family Loliginidae. *Smithson. Contrib. Zool.* **1998** *586*, 215 – 222.
192. Jereb, P.; Roper, C.F.E. Cephalopods of the world: An annotated and illustrated catalogue of cephalopod species known to date (Volume 2). Myopsid and oegopsid squids; Food and Agriculture Organization of the United Nations: Rome, Italy, 2005, pp. 1-649.
193. Haneda, Y. Observations on the luminescence of the shallow-water squid, *Uroteuthis bartschi*. *Sci. Rep. Yokosuka City Mus.* **1964** *8*, 10-16.
194. Thouand, G.; Daniel, P.; Horry, H.; Picart, P.; Durand, M.J.; Killham, K.; Knox, O.C.G.; Dubow, M.S.; Rousseau, M. Comparison of the spectral emission of lux recombinant and bioluminescent marine bacteria. *Luminescence* **2003** *18*(3), 145-155. (doi:10.1002/bio.716)
195. Fukasawa, S.; Dunlap, P.V. Identification of luminous bacteria isolated from the light organ of the squid, *Doryteuthis kensaki*. *Agric. Biol. Chem.* **1986** *50*(6), 1645-1646. (doi:10.1271/bbb1961.50.1645)
196. Urbanczyk, H.; Ast, J.C.; Dunlap, P.V. Phylogeny, genomics, and symbiosis of *Photobacterium*. *FEMS Microbiol. Rev.* **2011** *35*(2), 324-342. (doi:10.1111/j.1574-6976.2010.00250.x)
197. Judkins, H.; Lindgren, A.; Villanueva, R.; Clark, K.; Vecchione, M. A description of three new bathyteuthid squid species from the North Atlantic and Gulf of Mexico. *Bull. Mar. Sci.* **2020** *96*(2), 281-296. (doi:10.5343/bms.2019.0051)
198. Shea, E.K.; Stadler, J.; Lindgren, A. (2020). *Brachioteuthis beanii* Verrill, 1881 (Cephalopoda: Brachioteuthidae) in the northwest Atlantic. *Bull. Mar. Sci.* **2020** *96*(2), 309-322. (doi:10.5343/bms.2019.0073)
199. Lipinski, M.R. Preliminary description of two new species of cephalopods (Cephalopoda: Brachioteuthidae) from South Atlantic and Antarctic waters. *Bull. Natl. Inst. Ocean. Fish.* **2001** *1*(152), 3-14.
200. Verhoeff, T.J. A new species of *Stauroteuthis* (Octopoda: Cirrata) and further novel cirrate octopods from Australian waters. *Molluscan Res.* **2023** 1-20. (doi:10.1080/13235818.2023.2232534)
201. Braid, H.E. Resolving the taxonomic status of *Asperoteuthis lui* Salcedo-Vargas, 1999 (Cephalopoda, Chiroteuthidae) using integrative taxonomy. *Mar. Biodivers.* **2017** *47*, 621-635. (doi:10.1007/s12526-016-0547-5)
202. Tree of Life Web Project. Available online: <http://tolweb.org/tree/> (accessed on 15 January 2024)
203. Kubota, T.; Koshiga, M.; Okutani, T. Rare and Interesting Squid from Japan VII: Some Biological Data on *Chiroteuthis imperator* from Suruga Bay, Japan (Cephalopoda: Chiroteuthidae). *Venus* **1981** *40*(3), 150-159. (doi:10.18941/venusjtm.40.3_150)
204. Joubin, L. Notes préliminaires sur les Céphalopodes des croisières du Dana (1921-1922). 4e Partie. *Ann. Inst. Oceanogr.* **1933** *13*(1), 1-49.
205. Salcedo-Vargas, M.A. Cephalopods from the Netherlands Indian Ocean Programme (NIOP)-I. *Chiroteuthis spoeli* n. spec. and *Chiroteuthis picteti somaliensis* n. subspec. *Beaufortia* **1996** *46*(2), 11-26.
206. Battaglia, P.; Canese, S.; Salvati, E.; Greco, S. *In situ* observations of three deep-sea cephalopods in the central Mediterranean Sea. *Mar. Biol.* **2023** *170*(11), 151. (doi:10.1007/s00227-023-04264-7)
207. Joubin, L. Observations sur divers Céphalopodes. Quatrième note: *Grimalditeuthis richardi* Joubin 1898. *Bull. Soc. Zool. Fr.* **1898** *23*, 101-113.
208. Silva-Dávila, R.D.; Avendaño-Ibarra, R.; Young, R.E.; Hochberg, F.G.; Hernández-Rivas, M.E. First record and description of *Planctoteuthis* (Cephalopoda: Chiroteuthidae) paralarvae in the Gulf of California, Mexico. *Lat. Am. J. Aquat. Res.* **2018** *46*(2), 280-288. (doi:10.3856/vol46-issue2-fulltext-4)
209. Escáñez, A.; Roura, Á.; Riera, R.; González, Á.F.; Guerra, Á. New data on the systematics of comb-fin squids *Ctenopteryx* spp. (Cephalopoda: Ctenopterygidae) from the Canary Islands. *Zool. Stud.* **2018** *57*. (doi:10.6620/ZS.2018.57-40)
210. Voss, N.A. A generic revision of the Cranchiidae (Cephalopoda; Oegopsida). *Bull. Mar. Sci.* **1980** *30*(2), 365-412.
211. Kubodera T.; Okutani, T. An unusual squid from the Sea of Japan, *Enigmocranchia nipponica*, new genus and new species (Cephalopoda: Decembrachiata: Cranchiidae). *Natl. Mus. Nat. Sci. Monogr.* **2014** *44*, 149-156.
212. Judkins, H.; Rose-Mann, L.; Lindgren, A.; Taite, M.; Bush, S.; Vecchione, M. A newly discovered *Helicocranchia* species (Cephalopoda: Cranchiidae: Taoniinae) in the northern Gulf of Mexico. *Bull. Mar. Sci.* **2022** *98*(3), 419-430. (doi:10.5343/bms.2021.0048)
213. Evans, A.B.; Bolstad, K.S.R. Diversity of the squid genus *Leachia* (Oegopsida: Cranchiidae) in the Pacific Ocean. *Mar. Biol.* **2023** *170*(6), 72. (doi:10.1007/s00227-023-04215-2)
214. Berry, S.S. Cephalopods of the Kermadec Islands. *Proc. Acad. Nat. Sci. Phila.* **1916** *68*: 45 – 66

215. Young, R.E.; Arnold, J.M. The functional morphology of a ventral photophore from the mesopelagic squid, *Abralia trigonura*. *Malacologia* **1982** 23(1), 135-163.
216. Herring, P.J.; Widder, E.A.; Haddock, S.H.D. Correlation of bioluminescence emissions with ventral photophores in the mesopelagic squid *Abralia veranyi* (Cephalopoda: Euprymatoidea). *Mar. Biol.* **1992** 112(2), 293-298. (doi:10.1007/BF00702474)
217. Tsuji, F.I. Bioluminescence reaction catalyzed by membrane-bound luciferase in the “firefly squid,” *Watasenia scintillans*. *Biochim. Biophys. Acta Biomembr.* **2002** 1564(1), 189-197. (doi:10.1016/S0005-2736(02)00447-9)
218. Young, R.E. The systematics and areal distribution of pelagic cephalopods from the seas off Southern California. *Smithson. Contrib. Zool.* **1972** 97, 159. (doi:10.5479/si.00810282.97)
219. Voss, N.A.; Nesis, K.N.; Rodhouse, P.G. The cephalopod family Histiotidae (Oegopsida): systematics, biology, and biogeography. *Smithson. Contrib. Zool.* **1998** 586, 293-372.
220. Vérany, J.B. Mollusques méditerranéens: Observés, décrits, figurés, et chromolithographiés d’après le vivant. Première partie: Céphalopodes de la Méditerranée. GèneImprimerie des Sourds-Muets: Gênes, France, 1851; pp. 1-130.
221. Dilly, P.N.; Herring, P.J. Ultrastructural features of the light organs of *Histiotidae macrohista* (Mollusca: Cephalopoda). *J. Zool.* **1981** 195(2), 255-266. (doi:10.1111/j.1469-7998.1981.tb03463.x)
222. Young, R.E. Function of the dimorphic eyes in the midwater squid *Histiotidae dofleini*. *Pac. Sci.* **1975** 29, 211 – 218.
223. Arocha, F. A new species of *Nematolampas* (cephalopoda: Oegopsida) from the Western Central Atlantic with an overview of the family Lycoteuthidae. *Bull Mar. Sci.* **2003** 72(3), 941-953.
224. Berry, S.S. Light Production in Cephalopods, I: An Introductory Survey. *Biol. Bull.* **1920** 38(3), 141-169. (doi:10.2307/1536213)
225. Braid, H.E.; McBride, P.D.; Bolstad, K.S. Molecular phylogenetic analysis of the squid family Mastigoteuthidae (Mollusca, Cephalopoda) based on three mitochondrial genes. *Hydrobiologia* **2014** 725, 145-164. (doi:10.1007/s10750-013-1775-3)
226. Kelly, J.T. Systematics of the Octopoteuthidae Berry, 1912 (Cephalopoda: Oegopsida). PhD thesis, Auckland University of Technology, Auckland, New Zealand, 30 July 2019.
227. Bush, S.L.; Robison, B.H.; Caldwell, R.L. Behaving in the dark: locomotor, chromatic, postural, and bioluminescent behaviors of the deep-sea squid *Octopoteuthis deletron* Young 1972. *Biol. Bull.* **2009** 216(1), 7-22. (doi:10.2307/25470719)
228. Young, R.E.; Roper, C.F.E. Intensity regulation of bioluminescence during countershading in living animals. *Fish. Bull.* **1976** 75, 239-252.
229. Herring, P.J.; Dilly, P.N.; Cope, C. Different types of photophore in the oceanic squids *Octopoteuthis* and *Taningia* (Cephalopoda: Octopoteuthidae). *J. Zool.* **1992** 227(3), 479-491. (doi:10.1111/j.1469-7998.1992.tb04408.x)
230. Galeazzo, G.A.; Mirza, J.D.; Dorr, F.A.; Pinto, E.; Stevani, C.V.; Lohrmann, K.B.; Oliveira, A.G. Characterizing the Bioluminescence of the Humboldt Squid, *Dosidicus gigas* (d’Orbigny, 1835): One of the Largest Luminescent Animals in the World. *Photochem. Photobiol.* **2019** 95(5), 1179-1185. (doi:10.1111/php.13106)
231. Sasaki, M. On three interesting new oegopsids from the Bay of Sagami. *J. Coll. Agric. Tohoku Imp. Univ.* **1915** 6 (6): 131 – 150.
232. Fernández-Álvarez, F.Á.; Braid, H.E.; Nigmatullin, C.M.; Bolstad, K.S.; Haimovici, M.; Sánchez, P.; Sajikumar, K.K.; Ragesh, N.; Villanueva, R. Global biodiversity of the genus *Ommastrephes* (Ommastrephidae: Cephalopoda): an allopatric cryptic species complex. *Zool. J. Linn. Soc.* **2020** 190(2), 460-482. (doi:10.1093/zoolinnean/zlaa014)
233. Tsuji, F.I.; Leisman, G.B. K⁺/Na⁺-triggered bioluminescence in the oceanic squid *Symplectoteuthis oualaniensis*. *Proc. Natl. Acad. Sci. U.S.A.* **1981** 78(11), 6719-6723. (doi:10.1073/pnas.78.11.6719)
234. Girsch, S.J.; Herring, P.J.; McCapra, F. Structure and preliminary biochemical characterization of the bioluminescent system of *Ommastrephes pteropus* (Steenstrup)(Mollusca: Cephalopoda). *J. Mar. Biol. Ass. U. K.* **1976** 56(3), 707-722. (doi:10.1017/S0025315400020749)
235. Bolstad, K.S. 2010. Systematics of the Onychoteuthidae Gray, 1847 (Cephalopoda: Oegopsida). *Zootaxa* **2010** 2696: 1–186. (doi:10.11646/zootaxa.2696.1.1)
236. Fernández-Álvarez, F.Á.; Colmenero, A.I.; Barriá, C. First record of the elusive oceanic squid *Thysanoteuthis rhombus* Troschel, 1857 (Cephalopoda: Thysanoteuthidae) in the Catalan coast. *Graellsia* **2021** 77(1):e122. (doi:10.3989/graeellsia.2021.v77.284)
237. Lindgren, A.R. Systematics and distribution of the squid genus *Pterygioteuthis* (Cephalopoda: Oegopsida) in the eastern tropical Pacific Ocean. *J. Molluscan Stud.* **2010** 76(4), 389-398. (doi:10.1093/mollus/eyq028)

238. Bello, G. Evolution of the hectocotylus in Sepiolinae (Cephalopoda: Sepiolidae) and description of four new genera. *Eur. J. Taxon.* **2020** 655, 1–53. (doi:10.5852/ejt.2020.655)
239. Tanet, L.; Martini, S.; Casalot, L.; Tamburini, C. Reviews and syntheses: Bacterial bioluminescence – ecology and impact in the biological carbon pump. *Biogeosciences* **2020** 17(14), 3757–3778. (doi:10.5194/bg-17-3757-2020)
240. Young, R.E.; Vecchione, M.; Roper, C.F. A new genus and three new species of decapodiform cephalopods (Mollusca: Cephalopoda). *Rev. Fish Biol. Fish.* **2007** 17, 353–365. (doi:10.1007/s11160-007-9044-z)
241. Lu, C.C.; Okutani, T. Two new genera and species of sepioline squids (Cephalopoda: Sepiolidae) from Australia. *Mem. Mus. Vic.* **2022** 81, 1–23. (doi:10.24199/j.mmv.2022.81.01)
242. Lu, C.C.; Boucher-Rodoni, R. A new genus and species of sepiolid squid from the waters around Tonga in the central South Pacific (Mollusca: Cephalopoda: Sepiolidae). *Zootaxa* **2006** 1310(1), 37–51. (doi:10.11646/zootaxa.1310.1.2)
243. Jones, B.W.; Nishiguchi, M.K. Counterillumination in the Hawaiian bobtail squid, *Euprymna scolopes* Berry (Mollusca: Cephalopoda). *Mar. Biol.* **2004** 144, 1151 – 1155. (doi:10.1007/s00227-003-1285-3)
244. Voss, G.L. The cephalopoda obtained by the Harvard-Havana expedition off the coast of Cuba in 1938–39. *Bull. Mar. Sci.* **1955** 5, 81–115.
245. Kubodera, T.; Okutani, T. New additions of luminous bobtail squids to the Japanese cephalopod fauna (Sepiolida: Sepiolidae: Heteroteuthinae). *Venus* **2011** 69(3–4), 145–161.
246. Harman, R.F.; Seki, M.P. *Iridoteuthis iris* (Cephalopoda: Sepiolidae): new records from the Central North Pacific and first description of the adults. *Pac. Sci.* **1990** 44(2), 171–179.
247. Reid, A.L. Two new species of *Iridoteuthis* (Cephalopoda: Sepiolidae: Heteroteuthinae) from the southwest Pacific, with a redescription of *Stoloteuthis maoria* (Dell, 1959). *Zootaxa* **2021** 5005(4), 503–537. (doi:10.11646/zootaxa.5005.4.3)
248. Guerrero-Kommritz, J.; Rodriguez-Bermudez, A. Sepioids (Mollusca: Cephalopoda) from the southern Caribbean, Colombian coast, and a redescription of *Nectoteuthis pourtalesii* Verrill, 1883. *Mar. Biodivers.* **2017** 47, 203–224. (doi:10.1007/s12526-016-0462-9)
249. Jereb, P.; Roper, C.F.E. Cephalopods of the world: An annotated and illustrated catalogue of cephalopod species known to date (Volume 1). Chambered nautilus and sepioids; Food and Agriculture Organization of the United Nations: Rome, Italy, 2005, pp. 1–262.
250. Sanchez, G.; Fernández-Álvarez, F.Á.; Taite, M.; Sugimoto, C.; Jolly, J.; Simakov, O.; Marlétaz, F.; Allcock, L.; Rokhsar, D.S. Phylogenomics illuminates the evolution of bobtail and bottletail squid (order Sepiolida). *Commun. Biol.* **2021** 4(1), 819. (doi:10.1038/s42003-021-02348-y)
251. Fernández-Álvarez, F.Á.; Sánchez P.; Villanueva R. Morphological and molecular assessments of Bobtail Squids (Cephalopoda: Sepiolidae) reveal a hidden history of biodiversity. *Front. Mar. Sci.* **2021** 7 632261, 1–21. (doi:10.3389/fmars.2020.632261)
252. Relini, L.O.; Massi, D. The butterfly squid *Stoloteuthis leucoptera* in the Mediterranean. *J. Mar. Biol. Ass. U. K.* **1991** 71(1), 47–51. (doi:10.1017/S0025315400037383)
253. Deheyn, D.D.; Wilson N.G. Bioluminescent signals spatially amplified by wavelength-specific diffusion through the shell of a marine snail. *Proc. Roy. Soc. B.* **2011** 278(1715), 2112–21. (doi:10.1098/rspb.2010.2203)
254. Houbbrick, R.S. Anatomy, reproductive biology, and phylogeny of the Planaxidae (Cerithiacea: Prosobranchia). *Smithson. Contrib. Zool.* **1987** 445, 1 – 58. (doi:10.5479/SL.00810282.445)
255. Haneda, Y. Studies on luminescence in marine snails. *Pac. Sci.* **1958** 12, 152 – 157.
256. Marshall, B.A. A luminescent eulimid (Mollusca: Gastropoda) from New Zealand. *Molluscan Res.* **1997** 18(1), 69–72. (doi:10.1080/13235818.1997.10673683)
257. Nicol, J.A.C. (1964). Special effectors: luminous organs, chromatophores, pigments, and poison gland. In *Physiology of mollusca* (volume 1); Wilbur, K.M.; Yonge, C.M., Eds.; Academic Press, London, UK, 1964; pp.353–381.
258. OPK Opistobranquis. Available online:
<https://opistobranquis.info/en/guia/nudibranchia/cladobranchia/unassigned-cladobranchia/phylliroe-lichtensteinii/> (accessed on 15 January 2024)
259. Youtube. Available online: <https://www.youtube.com/watch?v=rd75tEQV8-U> (accessed on 15 January 2024)
260. Gosliner, T.M.; Vallès, Y. Shedding light onto the genera (Mollusca: Nudibranchia) *Kaloplocamus* and *Plocamopherus* with description of new species belonging to these unique bioluminescent dorids. *Veliger* **2006** 48(3), 178–205
261. Alcock, A. A Naturalist in Indian Seas: Or, Four Years with the Royal Indian Marine Survey Ship Investigator; John Murray: London, UK, 1902; pp. 1–328.
262. King, P.E. Pycnogonids. Hutchinson: London, UK, 1973; pp. 1–144.
263. Herring, P.J. Bioluminescence in the Crustacea. *J. Crust. Biol.* **1985** 5(4), 557–573. (doi:10.1007/BF00026304)

264. Kiernik, E. Über einige bisher unbekannte leuchtende Tiere. *Zool. Anz.* **1908** 33, 376-380.
265. Herring, P.J. Copepod luminescence. *Hydrobiologia* **1988** 167(1), 183-195. (doi:10.1007/BF00026304)
266. Takenaka, Y.; Yamaguchi, A.; Tsuruoka, N.; Torimura, M.; Gojobori, T.; Shigeri, Y. Evolution of bioluminescence in marine planktonic copepods. *Mol. Biol. Evol.* **2012** 29(6), 1669-1681. (doi:10.1093/molbev/mss009)
267. Tett, P.B.; Kelly, M.G. Marine bioluminescence. *Oceanogr. Mar. Biol. Annu. Rev.* **1973** 11, 89-173.
268. Artiomkin, A.S.; Filimonov, V.S.; Baldina, E.P.; Grese, V.N. Resultados preliminares sobre zooplancton y su luminiscencia en la region oriental del mar Caribe. *Acad. Cienc. Cuba Ser. Oceanol.* **1969** 2, 1- 11.
269. Rudyakov, Y.A.; Voronina, N.M. Plankton and bioluminescence in the Red Sea and the Gulf of Aden. *Oceanology* **1967** 7, 838-848.
270. Filimonov, V.S.; Chumakova, R.I. Biophysical characteristics of the luminescence of marine bioluminescent organisms. In *Bioluminescence of the Sea*; Gitelson, I.I., (ed.); Nauka: Moscow, Russia, 1969; pp. 40-67.
271. Krylov, C.A. Glandular topography and luminescence of *Metridia pacifica*. *Izv. sib. Otdel. Akad. Nauk SSSR* **1969** 3, 104-109.
272. Lapota, D.; Losee, J.R. Observations of bioluminescence in marine plankton from the Sea of Cortez. *J. Exp. Mar. Biol. Ecol.* **1984** 77(3), 209-239. (doi:10.1016/0022-0981(84)90121-7)
273. Hardy, A.C. The open sea. Its Natural History: The world of Plankton. Collins : London, UK, 1956, pp. 1-335.
274. Chihara, M.; Murano, M. An illustrated guide to marine plankton in Japan. Tokai University Press: Tokyo, Japan, 1997; pp. 1-1574.
275. Neilson, D.J.; Latz, M.I.; Case, J.F. Temporal variability in the vertical structure of bioluminescence in the North Atlantic Ocean. *J. Geophys. Res. Oceans* **1995** 100(C4), 6591-6603. (doi:10.1029/94JC01448)
276. Herring, P.J.; Latz, M.I.; Bannister, N.J.; Widder, E.A. Bioluminescence of the poecilostomatoid copepod *Oncaea conifera*. *Mar. Ecol. Prog. Ser.* **1993** 94, 297-309.
277. Takenaka, Y.; Noda-Ogura, A.; Imanishi, T.; Yamaguchi, A.; Gojobori, T.; Shigeri, Y. Computational analysis and functional expression of ancestral copepod luciferase. *Gene* **2013** 528, 201– 206. (doi:10.1016/j.gene.2013.07.011)
278. Markova, S.V.; Goltz, S.; Frank, L.A.; Kalthof, B.; Vysotski, E.S. Cloning and expression of cDNA for a luciferase from the marine copepod *Metridia longa*. A novel secreted bioluminescent reporter enzyme. *J. Biol. Chem.* **2004** 279, 3212–3217. (doi:10.1074/jbc.M309639200)
279. David, C.N.; Conover, R.J. Preliminary investigation on the physiology and ecology of luminescence in the copepod, *Metridia lucens*. *Biol. Bull.* **1961** 121(1), 92-107. (doi:10.2307/1539462)
280. Bitjukov, E.P.; Evstigneev, P.V. Main characteristics of luminescence and its species specificity in copepods of genus *Pleuromamma*. *Ekol. Morya* **1982** 11, 53-62.
281. Latz, M.I.; Frank, T.M.; Bowlby, M.R.; Widder, E.A.; Case, J.F. Variability in flash characteristics of a bioluminescent copepod. *Biol. Bull.* **1987** 173(3), 489-503. (doi:10.2307/1541695)
282. Losee, J.R., Lapota, D.; Lieberman, S.H. Bioluminescence: a new tool for oceanography. In (ed.) A. Zirino Mapping strategies in chemical oceanography; Zirino, Z., Ed.; American Chemical Society: Washington, USA, 1985; pp: 211-234.
283. Morin, J.G. Luminaries of the reef: The history of luminescent ostracods and their courtship displays in the Caribbean. *J. Crustac. Biol.* **2019** 39(3), 227-243. (doi:10.1093/jcabi/ruz009)
284. Cohen, A.C.; Morin, J.G. Two new bioluminescent ostracode genera, *Enewton* and *Photeros* (Myodocopida: Cypridinidae), with three new species from Jamaica. *J. Crustac. Biol.* **2010** 30(1), 1-55. (doi:10.1651/08-3075.1)
285. Cohen, A.C.; Morin, J.G. The cypridinid copulatory limb and a new genus *Kornickeria* (Ostracoda: Myodocopida) with four new species of bioluminescent ostracods from the Caribbean. *Zool. J. Linn. Soc.* **1993** 108(1), 23-84. (doi:10.1111/J.1096-3642.1993.TB02559B.X)
286. Reda, N.J.; Morin, J.G.; Torres, E.; Cohen, A.C.; Schawaroch, V.; Gerrish, G.A. *Maristella*, a new bioluminescent ostracod genus in the Myodocopida (Cypridinidae). *Zool. J. Linn. Soc.* **2019** 187(4), 1078-1118. (doi:10.1093/zoolinnean/zlz082)
287. Torres, E.; Morin, J.G. *Vargula annecohenae*, a new species of bioluminescent ostracode (Myodocopida: Cypridinidae) from Belize. *J. Crustac. Biol.* **2007** 27(4), 649-659. (doi:10.1651/S-2769.1)
288. Huvar, A.L. Analysis of visual pigment absorbance and luminescence emission spectra in marine ostracodes (Crustacea: Ostracoda). *Comp. Biochem. Physiol. A Mol. Integr. Physiol.* **1993** 104(2), 333-338.
289. Torres, E.; Cohen, A.C. (2005). *Vargula morini*, a new species of bioluminescent ostracode (Myodocopida: Cypridinidae) from Belize and an associated copepod (Copepoda: Siphonostomatoida: Nicothoidae). *J. Crustac. Biol.* 25(1), 11-24. (doi:10.1651/C-2455)
290. Parker, A.R. A new species of Australian bioluminescent ostracod (Myodocopina: Cypridinidae) with an unreported iridescent structure. *J. Nat. Hist.* **1998** 32 (5), 645-660. (doi:10.1080/00222939800770341)

291. Cohen, A.C.; Morin, J.G. Three new luminescent ostracodes of the genus *Vargula* (Myodocopida, Cypridininae) from the San Blas Region of Panama. *Contrib. Sci.* **1986** 373, 1-23.
292. Morin, J.G.; Cohen, A.C. Two new luminescent ostracodes of the genus *Vargula* (Myodocopida: Cypridinidae) from the San Blas region of Panama. *J. Crustac. Biol.* **1988** 8, 620 – 638. (doi:10.1163/193724088X00468)
293. Angel, M.V. Bioluminescence in planktonic halocyprid ostracods. *J. Mar. Biol. Assoc. U. K.* **1968** 48(1), 255-257. (doi:10.1017/S0025315400032562)
294. Rudjakov, J.A. The study of the luminescence of pelagic ostracods. In Bioenergetics and biological spectrophotometry; Nauka: Moscow, Russia, 1967; pp. 52-62.
295. Campbell, A.K.; Herring, P.J. Imidazolopyrazine bioluminescence in copepods and other marine organisms. *Mar. Biol.* **1990** 104, 219-225. (doi:10.1007/BF01313261)
296. Oba, Y.; Tsuduki, H.; Kato, S.I.; Ojika, M.; Inouye, S. Identification of the luciferin – luciferase system and quantification of coelenterazine by mass spectrometry in the deep-sea luminous ostracod *Conchoecia pseudodiscophora*. *ChemBioChem* **2004** 5(11), 1495-1499. (doi:10.1002/cbic.200400102)
297. Batchelder, H.P.; Swift, E. Bioluminescent potential and variability in some Sargasso Sea planktonic halocyprid ostracods. *J. Crustac. Biol.* **1988** 8(4), 520-523. (doi:10.1163/193724088X00350)
298. Angel, M.V. Planktonic oceanic ostracods—historical, present and future. *P. Roy. Soc. Edinb. B.* **1972** 73, 213-228. (doi:10.1017/S0080455X00002277)
299. Herring, P.J. Studies on bioluminescent marine amphipods. *J. Mar. Biol. Assoc. U. K.* **1981** 61(1), 161-176. (doi:10.1017/S0025315400045999)
300. Bowlby, M.R.; Widder, E.A.; Case, J.F. Disparate forms of bioluminescence from the amphipods *Cyphocaris faurei*, *Scina crassicornis* and *S. borealis*. *Mar. Biol.* **1991** 108(2), 247-253. (doi:10.1007/BF01344339)
301. Bowman, T. Bioluminescence in Two Species of Pelagic Amphipods. *J. Fish. Res. Board Can.* **1967** 24, 687 – 688. (doi:10.1139/f67-059)
302. Petrus, J.L. Bioluminiscencia en *Gammarus aequicauda* (Crustacea, Amphipoda) y *Chaetomorpha crassa* (Chlorophyceae) de la laguna costera de la Albufera des Grau (Menorca). *Boll. Soc. Hist. Nat. Balears* **1993** 36, 41 – 44.
303. Woltereck, R. *Scypholanceola*, eine neue hyperidengattung mit reflektororgan. *Zool. Anz.* **1905** 29, 413–416.
304. Herring, P.J. Luminescence in Marine Amphipods. *Nature* **1967** 1260 – 1261. (doi:10.1038/2141260a0)
305. Van Vollenhoven, S. De Dieren van Nederland. Natuurlijke Historie van Nederland (Volume 1); A. C. Kruseman: Haarlem, The Netherlands, 1860; 296 pp. 1-296.
306. Wittmann, K.J. The Petalophthalmidae (Crustacea: Mysida) of the ANDEEP I–III expeditions to the Antarctic deep sea, with description of a new species and first record of photophores in mysids. *Crustac. Res.* **2022** 51(0), 55-89. (doi:10.18353/crustacea.51.0_55)
307. Meland, K.; Aas, P.Ø. A taxonomical review of the *Gnathophausia* (Crustacea, Lophogastrida), with new records from the northern mid-Atlantic ridge. *Zootaxa* **2013** 3664, 199-225. (doi: 10.11646/zootaxa.3664.2.5)
308. Shimomura, O.; Inoue, S.; Johnson, F.H.; Haneda, Y. Widespread occurrence of coelenterazine in marine bioluminescence. *Comp. Biochem. Physiol. B, Biochem. Mol. Biol.* **1980** 65(2), 435-437. (doi:10.1016/0305-0491(80)90044-9)
309. Vereshchaka, A.L.; Kulagin, D.N.; Lunina, A.A. A phylogenetic study of krill (Crustacea: Euphausiacea) reveals new taxa and co-evolution of morphological characters. *Cladistics* **2019** 35(2), 150-172 (doi:10.1111/cla.12239)
310. Tsuji, F.I.; Haneda, Y.; Lynch III, R.V.; Sugiyama, N. Luminescence cross-reactions of *Porichthys* luciferin and theories on the origin of luciferin in some shallow-water fishes. *Comp. Biochem. Physiol.* **1971** 40(1), 163-179. (doi:10.1016/0300-9629(71)90159-9)
311. Swift, E.; Biggley, W.H.; Naylor, T.A. The bioluminescence emission spectra of *Pyrosoma atlanticum*, *P. spinosum* (Tunicata), *Euphausia tenera* (Crustacea) and *Gonostoma* sp. (Pisces). *J. Mar. Biol. Assoc. U. K.* **1977** 57(3), 817-823. (doi:10.1017/S0025315400025170)
312. Herring, P.J.; Locket, N.A. The luminescence and photophores of euphausiid crustaceans. *J. Zool.* **1978** 186(4), 431-462. (doi:10.1111/j.1469-7998.1978.tb03932.x)
313. Hansen, H.J. The euphausiacean crustaceans of the "Albatross" expedition to the Philippines. *Proc. U. S. Natl. Mus.* **1916** 49(2129), 635-654.
314. Calman, W.T. On deep-sea Crustacea from the south west of Ireland. *Trans. Roy. Irish Acad.* **1896** 31, 1-22.
315. Sars, G.O. Preliminary notices on the Schizopoda of H.M.S. Challenger Expedition. *Forh. Vidensk.-Selsk. Kristiania* **1883** 7, 1-43.
316. Cram, D.L.; Malan, O.G. On the possibility of surveying krill (*Euphausia superba* Dana) in the Southern Ocean by remote sensing. *S. Afr. J. Antarct. Res.* **1977** 7, 1–6.
317. Guglielmo, L.; Granata, A.; Guglielmo, R. Orden euphausiacea. *Ibero Divers. Etimol.* **2015** 86A, 1–20.

318. Kampa, E.M.; Boden, B.P. Light generation in a sonic-scattering layer. *Deep Sea Res.* **1957** *4*, 73-92. (doi:10.1016/0146-6313(56)90038-7)
319. Brinton, E. A new abyssal euphausiid, *Thysanopoda minyops*, with comparisons of eye size, photophores, and associated structures among deep-living species. *J. Crustac. Biol.* **1987** *7*(4), 636-666. (doi:10.1163/193724087X00405)
320. Herring, P.J. Bioluminescence in decapod Crustacea. *J. Mar. Biol. Assoc. U. K.* **1976** *56*(4), 1029-1047. (doi:10.1017/S0025315400021056)
321. Wong, J.M.; Pérez-Moreno, J.L.; Chan, T.Y.; Frank, T.M.; Bracken-Grisson, H.D. Phylogenetic and transcriptomic analyses reveal the evolution of bioluminescence and light detection in marine deep-sea shrimps of the family Oplophoridae (Crustacea: Decapoda). *Mol. Phylogenetics Evol.* **2015** *83*, 278-292. (doi:10.1016/j.ympev.2014.11.013)
322. Frank, T.M.; Case, J.F. Visual spectral sensitivities of bioluminescent deep-sea crustaceans. *Biol. Bull.* **1988** *175*(2), 261-273. (doi:10.2307/1541567)
323. Dennell, R. Observations on the luminescence of bathypelagic Crustacea Decapoda of the Bermuda area. *Zool. J. Linn. Soc.* **1955** *42*, 393-406. (doi:10.1111/j.1096-3642.1955.tb02215.x)
324. Crosnier, A. Crustacés Décapodes, Pénéides Aristéides (Benthésicyminae, Aristéinae, Solénocérinae). *Faune Madag.* **1978** *46*, 1-197.
325. Dall, W. Australian species of Aristéides and Benthésicymidae (Penaeoidea: Decapoda). *Mem. Queensl. Mus.* **2001** *46*(2), 409-441.
326. Kemp, S.W. The Decapoda Natantia of the coasts of Ireland. *Fisheries Ireland Sci. Invest.* **1908** *1*, 1-190.
327. Biggley, W.H.; Nopora, T.A.; Swift, E. The color of bioluminescent secretions from decapod prawns in the genera *Oplophorus* and *Systellaspis*. In *Bioluminescence Current Perspectives*; Neilson, K.H., Ed.; Burgess Publishing Co., Minneapolis, USA, 1981; pp. 66-71.
328. Johnson, F.H.; Stachel, H.D.; Shimomura, O.; Haneda, Y. Partial purification of luminescence system of a deep-sea shrimp, *Hoplophorus graciliorostris*. In *Bioluminescence in Progress*; Johnson, F.; Haneda, Y., Eds.; Princeton University Press, Princeton, USA, 1966; pp. 523-532.
329. Yaldwyn, J.C.J. Deep-sea prawns - their colour and luminescence. *Aust. Nat. Hist.* **1963** *14*, 149-152.
330. Inoue, S.; Kakoi, H.; Goto, T. *Oplophorus* luciferin, bioluminescent substance of the decapod shrimps, *Oplophorus spinosus* and *Heterocarpus laevigatus*. *J. Chem. Soc., Chem. Commun.* **1976** (24), 1056-1057.
331. Vourey, E. Au large de la Nouvelle-Calédonie - Découverte du micronecton (poster presentation). Communauté du Pacifique (Projet BIOPELAGOS), 2019.
332. Balss, H. Decapoda Leuchtorgane. In *Bronn's Klassen und Ordnung des Tierreichs* (Volume 5), C.F. Winter: Leipzig, Germany, 1944; pp. 661-667.
333. Frank, T.M.; Johnsen, S.; Bracken-Grisson, H.; Messing, C.G.; Widder, E. Vision and Bioluminescence in the Deep-sea Benthos (abstract #ME34A-0789. American Geophysical Union, Ocean Sciences Meeting, New Orleans, USA, 21-26 February 2016).
334. Herring, P.J.; Barnes, A.T. Light-stimulated bioluminescence of *Thalassocaris crinita* (Dana)(Decapoda, Caridea). *Crustaceana* **1976** *31*(1), 107-110. (doi:10.1163/156854076X00864)
335. Gopala, M.; Williamson, D. I. Decapod Crustacea from the International Indian Ocean Expedition. The species of *Thalassocaris* (Caridea) and their larvae. *J. Zool.* **1971** *165*, 27-51. (doi:10.1111/j.1469-7998.1971.tb02175.x)
336. Oceanographic expeditions. IX. The bathypelagic caridean Crustacea. *Zoologica N. Y.* **1940** *25*, 117-209.
337. Vereshchaka, A.L.; Olesen, J.; Lunina, A.A. Global diversity and phylogeny of pelagic shrimps of the former genera *Sergestes* and *Sergia* (Crustacea, Dendrobranchiata, Sergestidae), with definition of eight new genera. *PloS One* **2014** *9*(11), e112057. (doi:10.1371/journal.pone.0112057)
338. Thomson, C.M.; Herring, P.J.; Campbell, A.K. Coelenterazine distribution and luciferase characteristics in oceanic decapod crustaceans. *Mar. Biol.* **1995** *124*, 197-207. (doi:10.1007/bf00347123)
339. Mencher, F.M. Aspects of countershading in Hawaiian mesopelagic sergestid shrimp. Masters Thesis, Univ. of Hawaii., Honolulu, USA, December 1978.
340. Warner, J.A.; Latz, M.I.; Case, J.F. Cryptic bioluminescence in a midwater shrimp. *Science* **1979** *203*(4385), 1109-1110. (doi:10.1126/science.203.4385.1109)
341. Hansen, H.J. Crustacés Décapodes (Sergestides) provenant des campagnes des yachts Hironde et Princesse Alice (1885-1915). *Résultats des Campagnes scientifiques accomplies par le Prince Albert I de Monaco* **1922** *64*, 1-232.
342. Farfante, I.P. American solenocerid shrimps of the genera *Hymenopenaeus*, *Haliporoides*, *Pleoticus*, *Hadropenaeus* new genus, *Andmesopenaeus* new genus. *Fish. Bull.* **1977** *75*(2), 261-346.
343. Burkenroad, M.D. The Aristaeinae, Solenocerinae and pelagic Penaeinae of the Bingham Oceanographic collection. *Bull. Bingham Oceanogr. Collect.* **1936** *5*, 1-151.

344. Delage Y., Hérourard E. Les procordés. In *Traité de Zoologie Concrète* (Volume VIII); Schleicher Frères: Paris, France, 1898; pp. 3-64.
345. Cormier, M.J.; Dure, L.S. Studies on the bioluminescence of *Balanoglossus biminiensis* extracts: I. Requirement for hydrogen peroxide and characteristics of the system. *J. Biol. Chem.* **1963** 238(2), 785-789. (doi: 10.1016/S0021-9258(18)81335-7)
346. Kuwano, H. New enteropneust from Misaki. *Anttot. Zool. Jap.* **1902** 4, 77-84.
347. Panceri, P. La luce e gli organi luminosi di alcuni annelidi. *Atti. Accad. Sci. Napoli* **1875** 7, 1-20.
348. Harvey, E.N. On the inhibition of animal luminescence by light. *Biol. Bull.* **1926** 51, 85-8.
349. Kanakubo, A.; Koga, K.; Isobe, M.; Yoza, K. Tetrabromohydroquinone and riboflavin are possibly responsible for green luminescence in the luminous acorn worm, *Ptychodera flava*. *Luminescence* **2005** 20(6), 397-400. (doi:10.1002/bio.803)
350. Herring, P.J. New observations on the bioluminescence of echinoderms. *J. Zool.* **1974** 172(3), 401-418. (doi:10.1111/j.1469-7998.1974.tb04116.x)
351. Mallefet, J.; Martinez-Soares, P.; Eléaume, M.; O'hara, T.; Duchatelet, L. New insights on crinoid (Echinodermata; Crinoidea) bioluminescence. *Front. Mar. Sci.* **2023** 10, 1136138. (doi:10.3389/fmars.2023.1136138)
352. Dilly, P.N. Enigma of coloration and light emission in deep-sea animals. *Endeavour* **1973** 32 (115), 25-29.
353. Bessho-Uehara, M.; Mallefet, J.; Haddock, S.H. Glowing sea cucumbers: Bioluminescence in the Holothuroidea. In *The world of sea cucumbers*; Mercier, A.; Hamel J.F.; Suhrbier A.D.; Pearce, C.M., Eds.; Academic Press: London, UK, 2024; pp. 361-375.
354. Robison, B.H. Bioluminescence in the benthopelagic holothurian *Enypniastes eximia*. *J. Mar. Biol. Assoc. U. K.* **1992** 72(2), 463-472. (doi:10.1017/S0025315400037826)
355. Bell, A.C. Histology and ultrastructure of *Acrocnida brachiata*. PhD thesis, Queen's University Belfast, Belfast, UK, 1974.
356. Mallefet, J.; Vanhoutte, P.; Baguet, F. Study of *Amphipholis squamata* luminescence. In *Echinoderm Research* ; CRC Press: Boca Raton, USA, 1991; pp. 125-130.
357. Mallefet, J. (2009). "Echinoderm bioluminescence: why, when, and how do so many ophiuroids glow?," in *Bioluminescence in Focus: a Collection of Illuminating Essays*, ed. V. B. Rochow (Kerala: Research Signpost), 67-84.
358. Mallefet, J. Echinoderm bioluminescence: why, when, and how do so many ophiuroids glow? In *Bioluminescence in focus—a collection of illuminating essays*; Meyer Rochow, V.B., Ed.; Research Signpost, Trivandrum, India, 2009; pp. 67-83.
359. Mallefet, J.; Barker, M.; Byrne, M.; O'Hara, T.; Heinzeller, T.; Nebelsick, J.H. First study of bioluminescence in *Ophioneis*. In *Proceedings of the 11th International Echinoderm Conference*, Munich, Germany, 6-10 October 2003.
360. Mallefet, J.; Fujita, T. First luminescence survey of Okinawa brittle stars. *Luminescence* **2014** 29, 29-30.
361. Dewael, Y.; Mallefet, J. Calcium involvement in the luminescence control of three ophiuroid species (Echinodermata). *Comp. Biochem. Physiol. C Toxicol. Pharmacol.* **2002** 131(2), 153-160. (doi:10.1016/s1532-0456(01)00288-5)
362. Kato, K. On a luminous ophiuroid. *Zool. Mag. Tokyo* **1947** 57, 10.
363. Pentreath, R.J. Feeding mechanisms and the functional morphology of podia and spines in some New Zealand ophiuroids (Echinodermata). *J. Zool.* **1970** 161(3), 395-429. (doi:10.1111/j.1469-7998.1970.tb04520.x)
364. Brehm, P.H. Bioluminescence. The anatomy and physiology of its nervous control in *Ophiopsila californica*. PhD Thesis, University of California, Berkeley, USA, 1975.
365. Guille, A.; Laboute, P. ; Menou, J.L. Guide des étoiles de mer, oursins et autres échinodermes du lagon de Nouvelle-Calédonie (Vol. 25); Editions de Forston, Pris, France, 1986; pp. 1-239.
366. Woolsey, E.; Byrne, M.; Webster, J.M.; Williams, S.; Pizarro, O.; Thornborough, K.; Bridge, T. *Ophiopsila pantherina* beds on subaqueous dunes off the Great Barrier Reef. In *Echinoderms in a Changing World: Proceedings of the 13th International Echinoderm Conference*, Hobart, Australia, 5-9 January 2009.
367. Okanishi, M.; Fujii, T. A new record of brittle star *Ophiopsila cf. polyacantha* (Echinodermata: Ophiuroidea) from Southwestern Japan, with notes on its bioluminescence. *Species Divers.* **2020** 25(2), 283-294. (doi:10.12782/specdiv.25.283)
368. Grober, M.S. Responses of tropical reef fauna to brittle-star luminescence (Echinodermata: Ophiuroidea). *J. Exp. Mar. Biol. Ecol.* **1988** 115(2), 157-168. (doi:10.1016/0022-0981(88)90100-1)
369. Okanishi, M.; Oba, Y.; Fujita, Y. Brittle stars from a submarine cave of Christmas Island, northwestern Australia, with description of a new bioluminescent species *Ophiopsila xmasilluminans* (Echinodermata: Ophiuroidea) and notes on its behaviour. *Raffles Bull. Zool.* **2019** 67, 421-439. (doi:10.26107/RBZ-2019-0034)

370. Jones, A.; Mallefet J. Study of the luminescence in the black brittle-star *Ophiocomina nigra*: toward a new pattern of light emission in ophiuroids. *Zoosymposia* **2012** 7, 139–145. (doi: 10.11646/zoosymposia.7.1.13)
371. Galt, C.P.; Grober, M.S.; Sykes, P. F. Taxonomic correlates of bioluminescence among appendicularians (Urochordata: Larvacea). *Biol. Bull.* **1985** 168(1), 125–134. (doi:10.2307/1541178)
372. Lohmann, H. Das Gehäuse der Appendicularien nach seiner Bildungsweise, seinem Bau und seiner Funktion. *Zool. Anz.* **1899** 22(587), 206–214.
373. Flood, P.R. A new appendicularian, *Oikopleura gorskyi* n. sp. (Tunicata), from Norwegian fjords. *Beaufortia* **2000** 50, 69–77.
374. Galt, C.P.; Sykes, P.F. Sites of bioluminescence in the appendicularians *Oikopleura dioica* and *O. labradoriensis* (Urochordata: Larvacea). *Mar. Biol.* **1983** 77, 155–159. (doi:10.1007/BF00396313)
375. Tarasov, N.I. Luminescence of the sea. Academy of Sciences of the USSR: Moscow, Russia, 1956; pp.1–203.
376. Aoki, M.; Hashimoto, K.; Watanabe, H. The intrinsic origin of bioluminescence in the ascidian, *Clavelina miniata*. *Biol. Bull.* **1989** 176(1), 57–62. (doi:10.2307/1541889)
377. Robison, B.H.; Raskoff, K.A.; Sherlock, R.E. Ecological substrate in midwater: *Doliolula equus*, a new mesopelagic tunicate. *J. Mar. Biol. Assoc. U. K.* **2005** 85 (3), 655–663. (doi:10.1017/S0025315405011586)
378. Tessler, M.; Gaffney, J.P.; Oliveira, A.G.; Guarnaccia, A.; Dobi, K.C.; Gujarati, N.A.; Galbraith, M.; Mirza, J.D.; Sparks, J.S.; Pieribone, V.A.; Wood, R.J.; Gruber, D.F. (2020). A putative chordate luciferase from a cosmopolitan tunicate indicates convergent bioluminescence evolution across phyla. *Sci. Rep.* **2020** 10(1), 1–11. (doi:10.1038/s41598-020-73446-w)
379. van Soest, R. Juvenile colonies of the genus *Pyrostremma* Garstang, 1929 (Tunicata, Thaliacea). *Bull. Zool. Mus.* **1974** 4(4), 23–28.
380. van Soest, R. Taxonomy of the subfamily Cyclosalpinae Yount, 1954 (Tunicata, Thaliacea), with descriptions of two new species. *Beaufortia* **1974** 22(288), 17–55.
381. van Soest, R.W.M. Observations on taxonomy and distribution of some salps (Tunicata, Thaliacea), with descriptions of three new species. *Beaufortia* **1975** 23(302): 105–130.
382. Haneda, Y.; Tokioka, T. Droplets from the Plankton net. *Publ. Seto Mar. Biol. Lab.* **1954** 3(3), 369–371.
383. Mallefet, J.; Stevens, D.W.; Duchatelet, L. Bioluminescence of the largest luminous vertebrate, the kitefin shark, *Dalatias licha*: first insights and comparative aspects. *Front. Mar. Sci.* **2021** 8, 633582. (doi:10.3389/fmars.2021.633582)
384. de Figueiredo Petean, F.; de Carvalho, M.R. Comparative morphology and systematics of the cookiecutter sharks, genus *Isistius* Gill (1864)(Chondrichthyes: Squaliformes: Dalatiidae). *PLoS One* **2018** 13(8), e0201913. (doi:10.1371/journal.pone.0201913)
385. Claes, J.M.; Delroisse, J.; Grace, M.A.; Doozey, M.H.; Duchatelet, L.; Mallefet, J. Histological evidence for secretory bioluminescence from pectoral pockets of the American Pocket Shark (*Mollisquama mississippiensis*). *Sci. Rep.* **2020** 10(1), 18762. (doi:10.1038/s41598-020-75656-8)
386. Dolganov, V.N. A new shark from the family Squalidae caught on the Naska submarine ridge. *Zool. Zhurnal* **1984** 63(10), 1589–1591.
387. Shirai, S.; Nakaya, K. A new squalid species of the genus *Centroscyllium* from the Emperor seamount chain. *Jpn. J. Ichthyol.* **1990** 36, 391–398. (doi:10.11369/jji1950.36.391)
388. Burckhardt, R. On the luminous organs of selachian fishes. *Ann. Mag. Nat. Hist.* **1900** 7, 558–568. (doi:10.1080/00222930008678424)
389. Abe, T. Description of a new squaloid shark, *Centroscyllium kamoharai*, from Japan. *Jpn. J. Ichthyol.* **1966** 13, 190–198. (doi:10.11369/jji1950.13.190)
390. Iwai, T. Luminous organs of the deep-sea squaloid shark, *Centroscyllium ritteri* Jordan and Fowler. *Pac. Sci.* **1960** 14, 51–54.
391. Ebert, D.A.; Straube, N.; Leslie, R.W.; Weigmann, S. *Etmopterus alphas* n. sp.: a new lanternshark (Squaliformes: Etmopteridae) from the south-western Indian Ocean. *Afr. J. Mar. Sci.* **2016** 38(3), 329–340. (doi:10.2989/1814232X.2016.1198275)
392. Vásquez, V.E.; Ebert, D.A.; Long, D.J. *Etmopterus benchleyi* n. sp., a new lanternshark (Squaliformes: Etmopteridae) from the central eastern Pacific Ocean. *J. Ocean. Sci. Found.* **2015** 17, 43–55.
393. Castro, J.I. The sharks of north America. Oxford University Press, Oxford, UK, 2010; pp. 1–640.
394. Ebert, D.A.; Leslie, R.W.; Weigmann, S. *Etmopterus brosei* sp. nov.: a new lanternshark (Squaliformes: Etmopteridae) from the southeastern Atlantic and southwestern Indian oceans, with a revised key to the *Etmopterus lucifer* clade. *Marine Biodivers.* **2021** 51(3), 53. (doi:10.1007/s12526-021-01173-0)
395. Reif, W.E. Functions of scales and photophores in mesopelagic luminescent sharks. *Acta Zool.* **1985** 66(2), 111–118. (doi:10.1111/j.1463-6395.1985.tb00829.x)

396. Schaaf-DaSilva, J.A.; Ebert, D.A. *Etmopterus burgessi* sp. nov., a new species of lanternshark (Squaliformes: Etmopteridae) from Taiwan. *Zootaxa* **2006** 1373, 53–64. (doi:10.11646/ZOOTAXA.1373.1.3)
397. Last, P.R.; Burgess, G.H.; Séret, B. Description of six new species of lantern-sharks of the genus *Etmopterus* (Squaloidea: Etmopteridae) from the Australasian region. *Cybiurn* **2002** 26, 203–223.
398. Fricke, R.; Koch, I. A New Species of the Lantern Shark Genus *Etmopterus* from Southern Africa (Elasmobranchii: Squalidae). *Stutt. Beitr. Naturk.* **1990** 450, 1–9.
399. Chan, W.L. New sharks from the South China Sea. *J. Zool.* **1966** 148, 218–237. (doi:10.1111/j.1469-7998.1966.tb02949.x)
400. Knuckey, J.D.S.; Ebert, D.A.; Burgess, G.H. *Etmopterus joungi* n. sp., a new species of lanternshark (Squaliformes: Etmopteridae) from Taiwan. *Aqua Int. J. Ichthyol.* **2010** 17, 61–72.
401. Ebert, D.A.; Papastamatiou, Y.P.; Kajiura, S.M.; Wetherbee, B.M. *Etmopterus lillae* sp. nov., a new lanternshark (Squaliformes: Etmopteridae) from the Northwestern Hawaiian Islands. *Zootaxa* **2017** 4237, 371–382.
402. Straube, N.; Iglésias, S.P.; Sellos, D.Y.; Kriwet, J.; Schliwen, U.K. Molecular phylogeny and node time estimation of bioluminescent lantern sharks (Elasmobranchii: Etmopteridae). *Mol. Phylogenet. Evol.* **2010** 56, 905–917. (doi:10.1016/j.ympev.2010.04.042)
403. Ebert, D.A.; Van Hees, K.E. *Etmopterus marshae* sp. nov., a new lanternshark (Squaliformes: Etmopteridae) from the Philippine Islands, with a revised key to the *Etmopterus lucifer* clade. *Zootaxa* **2018** 4508, 197–210. (doi:10.11646/zootaxa.4508.2.3)
404. Claes, J.M.; Mallefet, J. Comparative control of luminescence in sharks: new insights from the slendertail lanternshark (*Etmopterus molleri*). *J. Exp. Mar. Biol. Ecol.* **2015** 467, 87–94. (doi: 10.1016/j.jembe.2015.03.008)
405. , V.N.; Balanov, A.A. *Etmopterus parini* sp. n. (Squaliformes: Etmopteridae), a new shark species from the northwestern Pacific Ocean. *Biol. Morya* **2018** 44, 427–430.
406. Oshima, H. Some observations on the luminous organs of fishes. *J. Coll. Sci., Imp. Univ., Tokyo* **1911** 27, 1–25.
407. White, W.T.; Ebert, D.A.; Mana, R.R.; Corrigan, S. *Etmopterus samadiae* n. sp., a new lanternshark (Squaliformes: Etmopteridae) from Papua New Guinea. *Zootaxa* **2017** 4244, 339–354. (doi:10.11646/zootaxa.4244.3.3)
408. Bigelow, H.B.; Schoeder, W.C.; Springer, S. New and little known sharks from the Atlantic and from the Gulf of Mexico. *Bull. Mus. Comp. Zool. Harv. Coll.* **1953** 109, 213–276.
409. Ebert, D.A.; Compagno, L.J.; De Vries, M.J. A new lanternshark (Squaliformes: Etmopteridae: *Etmopterus*) from southern Africa. *Copeia* **2011** 2011(3), 379–384. (doi:10.2307/41261894)
410. Claes, J.M.; Aksnes, D.L.; Mallefet, J. (2010). Phantom hunter of the fjords: camouflage by counterillumination in a shark (*Etmopterus spinax*). *J. Exp. Mar. Biol. Ecol.* **2010** 388(1–2), 28–32. (doi:10.1016/j.jembe.2010.03.009)
411. Dolganov, V.N. On the little-known sharks *Etmopterus villosus* (Etmopteridae) and *Scymnodalatias sherwoodi* (Somniosidae) from the Pacific Ocean. *J. Ichthyol.* **2019**, 59, 275–279. (doi:10.1134/S003294521902005X)
412. Duchatelet, L.; Marion, R.; Mallefet, J. A third luminous shark family: Confirmation of luminescence ability for *Zameus squamulosus* (Squaliformes; Somniosidae). *Photochem. Photobiol.* **2021** 97(4), 739–744. (doi:10.1111/php.13393)
413. Sparks, J.S.; Chakrabarty, P. Description of a New Species of Ponyfish (Teleostei: Leiognathidae: Equulitini: *Photolateralis*) from the Gulf of Oman. *Am. Mus. Novit.* **2019** 3929 1–14. (doi:https://doi.org/10.1206/3929.1)
414. Suzuki, H.; Kimura, S. Taxonomic revision of the *Equulites elongatus* (Günther 1874) species group (Perciformes: Leiognathidae) with the description of a new species. *Ichthyol. Res.* **2017** 64(3): 339–352. (doi:10.1007/s10228-017-0572-9)
415. McFall-Ngai, M.; Morin, J.G. (1991). Camouflage by disruptive illumination in leiognathids, a family of shallow-water, bioluminescent fishes. *J. Exp. Biol.* **1991** 156(1), 119–137. (doi:10.1242/jeb.156.1.119)
416. Haneda, Y. Luminous organs of fish which emit light indirectly. *Pac. Sci.* **1950** 4, 214–227
417. Alavi-Yeganeh, M.S.; Khajavi, M.; Kimura, S. A new ponyfish, *Deveximentum mekranensis* (Teleostei: Leiognathidae), from the Gulf of Oman. *Ichthyol. Res.* **2021** 68 (3), 437–444. (doi:10.1007/s10228-020-00794-y)
418. Okamoto, M.; Williams, J. T.; Carpenter, K. E.; Santos, M. D.; Kimura, S. Description of a new species of the genus *Acropoma* (Acropomatidae) from the Arafura Sea with a redescription of *Acropoma leobergi* Prokofiev 2018 and the first record of *Acropoma boholensis* Yamanoue and Matsuura 2002 from the South China Sea. *Ichthyol. Res.* **2019** 67(1), 39–49. (doi:10.1007/s10228-019-00696-8)
419. Ghedotti, M.J.; Gruber, J.N.; Barton, R.W.; Davis, M.P.; Smith, W.L. Morphology and evolution of bioluminescent organs in the glowbellies (Percomorpha: Acropomatidae) with comments on the taxonomy and phylogeny of Acropomatiformes. *J. Morphol.* **2018** 279(11), 1640–1653. (doi:10.1002/jmor.20894)
420. Okamoto, M.; Golani, D. Three new species of the genus *Acropoma* (Perciformes: Acropomatidae) from the Indian Ocean. *Ichthyol. Res.* **2017** 65(1), 101–114. (doi:10.1007/s10228-017-0595-2)

421. Prokofiev, A.M. A New Species of Luminous Percoids of the *Acropoma* Genus (Acropomatidae). *J. Ichthyol.* **2018** 58(6), 939-943. (doi:10.1134/S0032945218060152)
422. Okamoto, M.; Randall, J.E.; Motomura, H. *Acropoma musorstom*, a new lanternbelly (Acropomatidae) from the South Pacific and the first record of *Acropoma splendens* from the Andaman Sea off southwestern Thailand. *Ichthyol. Res.* **2021** 68, 517-528. (doi:10.1007/s10228-021-00802-9)
423. Okamoto, M. *Acropoma profundum*, a new species of lanternbelly (Teleostei: Perciformes: Acropomatidae) from the Solomon Islands. *Species Divers.* **2014** 19, 9-14. (doi:10.1007/s10228-021-00802-9)
424. Mayer, G.F. A revision of the cardinalfish genus *Epigonus* (Perciformes, Apogonidae), with descriptions of two new species. *Bull. Mus. Comp. Zool.* **1974** 146, 147-203.
425. Idrees babu, K.; Akhilesh, K.V. *Epigonus indicus*, a new species of deepwater cardinalfish (Perciformes: Epigonidae) from the Indian Ocean. *J. Ocean Sci. Found.* **2020** 36, 20-27. (doi:10.5281/zenodo.4243312)
426. Herring, P.J. Bioluminescence of the oceanic apogonid fishes *Howella brodiei* and *Florenciella lugubris*. *J. Mar. Biol. Assoc. U. K.* **1992** 72(1), 139-148. (doi:10.1017/S0025315400048840)
427. Tominaga, Y. Internal morphology, mutual relationships and systematic position of the fishes belonging to the family Pempheridae. *Jpn. J. Ichthyol.* **1968** 15(2), 43-95..
428. Haneda, Y.; Johnson, F.H.; Shimomura, O. (1966). The origin of luciferin in the luminous ducts of *Parapriacanthus ransonneti*, *Pempheris klunzingeri*, and *Apogon ellioti*. In *Bioluminescence in Progress*; Johnson, F.; Haneda, Y., Eds.; Princeton University Press, Princeton, USA, 1966; pp. 533-545.
429. Sazonov, Y.I. Morphology and significance of the luminous organs in alepocephaloid fishes. *Biosyst. Ecol. Ser.* **1996** 11, 151-163.
430. Best, A.C.G.; Bone, Q. On the integument and photophores of the alepocephalid fishes *Xenodermichthys* and *Photostylus*. *J. Mar. Biol. Assoc. U. K.* **1976** 56(1), 227-236. (doi:10.1017/S0025315400020567)
431. Markle, D.F. Taxonomy and distribution of *Rouleina attrita* and *Rouleina maderensis* (Pisces, Alepocephalidae). *Fish. Bull.* **1971** 76, 79-87
432. Sazonov, Y.I. A new species of the genus *Rouleina* (Argentiniformes, Alepocephalidae) from the Philippine Archipelago Seas and a redescription of *R. livida* and *R. nuda*. *J. Ichthyol.* **1999** 39(7), 479-487.
433. Beebe, W. Deep-sea fishes of the Bermuda Oceanographic Expeditions. Family Alepocephalidae. *Zoologica N. Y.* **1933** 16, 15-91.
434. Matsubara, K.; Iwai, T. Notes on the alepocephalid fish *Xenodermichthys nodulosus* Gunther, from Japan. *Bull. Misaki Mar. Biol. Inst.* **1969** 1-10.
435. Poulsen, J.Y. New observations and ontogenetic transformation of photogenic tissues in the tubeshoulder *Sagamichthys schnakenbecki* (Platytrichtidae, Alepocephaliformes). *J. Fish Biol.* **2019** 94(1), 62-76. (doi:10.1111/jfb.13857)
436. Sazonov, Y.I.; Merrett, N.R. Alepocephaloid fishes (Argentiniformes, Alepocephaloidei) captured during the cruise of the R/V Discovery in the Arabian Sea, with description of a new species of *Normichthys* (Platytrichtidae). *J. Ichthyol.* **2001** 41(suppl. 1), S37-S50.
437. Tucker, D.W. Report on the fishes collected by S. Y. "Rosaura" in the North and Central Atlantic, 1937-1938. Part 1. Rosaura Expedition Report Number 4, Part 1. *Bull. Br. Mus.* **1954** 2, 163-214.
438. Castle, P.H.J.; Paxton, J.R. A new genus and species of luminescent eel (Pisces: Congridae) from the Arafura Sea, Northern Australia. *Copeia* **1984** 1984(1), 72-81.
439. Beebe, W. Deep-sea fishes of the Bermuda oceanographic expeditions. 1: Family Derichthyidae. 2: Family Nessorhamphidae. *Zoologica N. Y.* **1935** 21, 195-205.
440. Poulsen, J.Y. A new species of pencil smelt *Nansenia boreacrassicauda* (Microstomatidae, Argentiniformes) from the North Atlantic Ocean. *Zootaxa* **2015** 4020(3), 517-532. (doi:10.11646/zootaxa.4020.3.6)
441. Parin, N.V.; Belyanina, T.N.; Evseenko, S.A. Materials to the revision of the genus *Dolichopteryx* and closely related taxa (*Ioichthys*, *Bathylychnops*) with the separation of a new genus *Dolichopteroides* and description of three new species (fam. Opisthoproctidae). *J. Ichthyol.* **2009** 49(10), 839-851. (doi:10.1134/S0032945209100014)
442. Poulsen, J.Y.; Sado, T.; Hahn, C.; Byrkjedal, I.; Moku, M.; Miya, M. Preservation Obscures Pelagic Deep-Sea Fish Diversity: Doubling the Number of Sole-Bearing Opisthoproctids and Resurrection of the Genus *Monacoa* (Opisthoproctidae, Argentiniformes). *Plos One* **2016** 11(8), e0159762. (doi:10.1371/journal.pone.0159762)
443. Prokofiev, A.M.; Kukuev, E.I. A New Species of *Rhynchohyalus* from the Southeastern Pacific Ocean with Notes on *R. natalensis* (Opisthoproctidae). *J. Ichthyol.* **2020** 60(4), 513-519. (doi:10.1134/S0032945220040189)
444. Bertelsen, E.; Munk, O. Rectal light organs in the argentinoid fishes *Opisthoproctus* and *Winteria*. *Dana Rep.* **1964** 62, 1-17.
445. Fricke, R.; Durville, P. *Chlorophthalmus vulcanus*, a new species of greeneye from La Réunion, southwestern Indian Ocean (Teleostei: Chlorophthalmidae). *FishTaxa* **2020** 17, 1-11.

446. Somiya, H. Bacterial bioluminescence in chlorophthalmid deep-sea fish: a possible interrelationship between the light organ and the eyes. *Experientia* **1977** 33(7), 906-909. (doi:10.1007/BF01951274)
447. Prokofiev, A.M. A New Species of Greeneye (Chlorophthalmidae) from the Waters of Vietnam. *J. Ichthyol.* **2020** 60(6): 938-942.
448. Saito, R.; Sakai, T.; Shimizu, T.; Mizumachi, K.; Koizumi, R.; Ono, T.; Sogame, Y. Isolation of *Photobacterium kishitanii taigaleon* from a local fish Mehikari (greeneye) found near Iwaki city Japan, and possible application for water quality assessment. *Asian Jr. of Microbiol. Biotech. Env. Sc.* **2020** 22(4), 584-593.
449. Wassersug, R.J.; Johnson, R.K. A remarkable pyloric caecum in the evermannellid genus *Coccorella* with notes on gut structure and function in alepisauroid fishes (Pisces, Myctophiformes). *J. Zool.* **1976** 179(2), 273-289. (doi:10.1111/j.1469-7998.1976.tb02296.x)
450. Rofen R.R. Family Paralepididae. In *Fishes of Western North Atlantic*, pt. 5(1); Olsen, Y.H.; Atz, J.W., Eds.; Memoir Sears Foundation for Marine Research: New Haven, USA, 1966; pp. 205-461.
451. Graae, M.J.F. *Lestidium bigelowi*, a new species of paralepidid fish with photophores. *Breviora* **1967** 277, 1-10.
452. Ho, H.C.; Graham, K.; Russell, B. Three new species of the barracudina genus *Lestidium* (Aulopiformes: Paralepididae) from the Indo-West Pacific. *Zootaxa* **2020** 4767(1), 71-88. (doi:10.11646/zootaxa.4767.1.3)
453. Gilbert, C.H. The deep-sea fishes of the Hawaiian Islands. *Fish. Bull.* **1905** 23(2), 577-713.
454. Ho, H.C.; Tsai, S.Y.; Li, H.H. The barracudina genera *Lestidium* and *Lestrolepis* of Taiwan, with descriptions of two new species (Aulopiformes: Paralepididae). *Zootaxa* **2019** 4702(1), 114-139. (doi:10.11646/zootaxa.4702.1.16)
455. Ghedotti, M.J.; Barton, R.W. ; Simons, A.M. ; Davis, M.P. The first report of luminescent liver tissue in fishes: Evolution and structure of bioluminescent organs in the deep-sea naked barracudinas (Aulopiformes: Lestidiidae). *J. Morphol.* **2015** 276(3), 310-318. (doi:10.1002/jmor.20341)
456. Ho, H.C.; Golani, D. A new species of *Lestrolepis* from the Red Sea, with redescription of *Lestrolepis pofi* (Harry, 1953) (Aulopiformes: Parelepididae). *Zootaxa* **2019** 4619(3), 571-579. (doi:10.11646/zootaxa.4619.3.10)
457. Johnston, I.A.; Herring, P.J. The transformation of muscle into bioluminescent tissue in the fish *Benthalbella infans* Zugmayer. *Proc. Roy. Soc. B.* **1985** 225(1239), 213-218. (doi:10.1098/rspb.1985.0059)
458. Johnson, R.K. A revision of the alepisauroid family Scopelarchidae (Pisces: Myctophiformes). *Fieldiana Zool.* **1974** 66, 1-249.
459. Walker, H.J., Jr.; Rosenblatt, R.H. Pacific toadfishes of the genus *Porichthys* (Batrachoididae) with descriptions of three new species. *Copeia* **1988** 1988 (4), 887-904.
460. Gilbert, C. Western Atlantic batrachoidid fishes of the genus *Porichthys*, including three new species. *Bull. Mar. Sci.* **1968** 18 (3), 671-730.
461. Schwartz, F.J. Atlantic Midshipman, *Porichthys plectrodon*, in North Carolina. *J. North Carolina Acad. Sci.* **2013** 129(3), 111-114. (doi:10.7572/2167-5880-129.3.111)
462. Haneda, Y. A preliminary report on two new luminous fish of Bombay and Hong Kong. *Sci. Rep. Yokosuka City Mus.* **1961** 6, 45-50.
463. Sasaki, K. Phylogeny of the family Sciaenidae, with notes on its zoogeography (Teleostei, Perciformes). *Mem. Fac. Fish., Hokkaido Univ.* **1989** 36(1-2), 1-137.
464. Seah, Y.G.; Hanafi, N.; Maslan, A.G.; Chao, N.L. A new species of *Larimichthys* from Terengganu, east coast of Peninsular Malaysia (Perciformes: Sciaenidae). *Zootaxa* **2015** 3956(2), 271-280. (doi:10.11646/zootaxa.3956.2.7)
465. Trewavas, E. The sciaenid fishes (croakers or drums) of the Indo-West-Pacific. *Trans. Zool. Soc. London* **1977** 33(4): 253-541. (doi:10.1111/j.1096-3642.1977.tb00052.x)
466. Last, P.; Pogonoski, J.J. Revision of the fish family Euclichthyidae (Pisces: Gadiformes) with the description of two new species from the Western Pacific. *Zootaxa* **2020** 4758(2), 231-256. (doi:10.11646/zootaxa.4758.2.2)
467. Okamura, O. Relationships of the Suborder Macrouroidei and related groups, with comments on Merlucciidae and *Steindachneria*. In *Papers on the systematics of gadiform fishes*; Cohen, D. M., Ed.; Natural History Museum of Los Angeles County: Los Angeles, USA, 1989; pp. 129-142.
468. Merrett, N.R. A new species of the deep-sea fish genus *Coryphaenoides gunnerus* (Macrouridae) from the tropical eastern North Atlantic and its relationship with *Coryphaenoides marshalli* Iwamoto, 1970. *J. Fish Biol.* **1983** 22(3), 265-278. (doi:10.1111/j.1095-8649.1983.tb04750.x)
469. Iwamoto, T.; Williams, A. Grenadiers (Pisces, Gadiformes) from the continental slope of western and northwestern Australia. *Proc. Calif. Acad. Sci.* **1999** 51(3): 105-243.
470. Gilbert, C.H.; Hubbs, C.L. (1920). Contributions to the biology of the Philippine Archipelago and adjacent regions. The macrouroid fishes of the Philippine Islands and the East Indies. *Bull. U.S. Natl. Mus.* **1920** 100(1, pt 7), 369-588.
471. Iwamoto, T. Eastern Pacific macrourids of the genus *Coelorinchus* Giorna (Pisces: Gadiformes), with description of a new species from Chile. *Proc. Calif. Acad. Sci.* **1978** 41(12), 307-337.

472. Iwamoto, T.; Golani, D.; Baranes, I.; Goren, M. Two new grenadiers (Teleostei, Gadiformes, Macrouridae) from the Seychelles and Mascarene Ridge, Western Indian Ocean. *Proc. Calif. Acad. Sci.* **2006** 57(12-24), 433-442.
473. Chiou, M.-L.; Shao, K.-T.; Iwamoto, T. New species of *Caelorinchus* (Macrouridae, Gadiformes, Teleostei) from Taiwan, with a redescription of *Caelorinchus brevirostris* Okamura. *Copeia* **2004** 2004(2), 298-304.
474. Hickling, C.F. A new type of luminescence in fishes, III. The gland in *Coelorhynchus coelorhynchus* Risso. *J. Mar. Biol. Assoc. U. K.* **1931** 17(3), 853-875. (doi:10.1017/S0025315400009346)
475. McCann, C.; McKnight, D.G. The marine fauna of New Zealand: macrourid fishes (Pisces: Gadida). *New Zealand Oceanog. Inst. Mem.* **1980** 61, 1-91.
476. McMillan, P.J.; Paulin, C.D. Description of nine new species of rattails of the genus *Caelorinchus* (Pisces, Macrouridae) from New Zealand. *Copeia* **1993** 1993(3), 819-840.
477. Iwamoto, T.; Merrett, N.R. Pisces Gadiformes: Taxonomy of grenadiers of the New Caledonian region, southwest Pacific. In Résultats des Campagnes MUSORSTOM 18 ; Crosnier, A., Ed.; Mémoires du Muséum national d'Histoire naturelle (Série A, Zoologie. 176); Paris, France, 1997; pp. 473-570.
478. Iwamoto, T.; Nakayama, N.; Shao, K.T.; Ho, H.C. Synopsis of the grenadier fishes (Gadiformes; Teleostei) of Taiwan. *Proc. Calif. Acad. Sci.* **2015** 62, 31-126.
479. Jawad, L.A.; Al-Mamry, J.M. New records of *Coelorinchus flabellispinnis* (Alcock, 1894), *Coryphaenoides macrolophus* (Alcock, 1894) and *Nezumia investigatoris* (Alcock, 1894) (family: Macruridae) from the Arabian Sea coasts of Oman. *J. Appl. Ichthyol.* **2012** 28(2), 287-289. (doi:10.1111/j.1439-0426.2011.01922.x)
480. Iwamoto, T.; Ho, H.-C.; Shao, K.-T. Description of a new *Coelorinchus* (Macrouridae, Gadiformes, Teleostei) from Taiwan, with notable new records of grenadiers from the South China Sea. *Zootaxa* **2009** 2326, 39-50. (doi:10.11646/zootaxa.2326.1.3)
481. Prokofiev, A.M.; Iwamoto, T. A new *Coelorinchus* from the western Indian Ocean with comments on the *C. tokiensis* group of species (Teleostei: Gadiformes: Macrouridae). *Zootaxa* **2023** 5301(1), 137-150. (doi:10.11646/zootaxa.5301.1.7)
482. Iwamoto, T.; Graham, K.J. Two new Australian grenadiers of the *Coelorinchus fasciatus* species group (Macrouridae: Gadiformes: Teleostei). *Proc. Calif. Acad. Sci.* **2008** 59(5), 133-146.
483. Haneda, Y. The luminescence of some deep-sea fishes of the families Gadidae and Macrouridae. *Pac. Sci.* **1951** 5, 372-378.
484. Sazonov, Y.I.; Iwamoto, T. Grenadiers (Pisces, Gadiformes) of the Nazca and Sala y Gomez ridges, southeastern Pacific. *Proc. Calif. Acad. Sci.* **1992** 48(2), 27-95.
485. Arai, T.; Iwamoto, T. A new species of the macrourid fish genus *Coelorinchus* from off Tasmania, New Zealand, and the Falkland Islands. *Jpn. J. Ichthyol.* **1979** 26 (3), 238-246. (doi:10.11369/jji1950.26.238)
486. Iwamoto, T.; Anderson, E. Review of the grenadiers (Teleostei: Gadiformes) of southern Africa, with descriptions of four new species. *Ichthyol. Bull. J.L.B. Smith Inst. Ichthyol.* **1994** 61, 1-28.
487. Kelly, E.; Gerritsen, H.D. Monitoring the recovery of exploited deep-water species (EMFF 2014-2020 Marine Institute Report Series). Marine Institute.: Galway, Ireland, 2022; pp. 1-77.
488. Prokofiev, A.M.; Iwamoto, T. Revision of the grenadier genus *Coelorinchus* (Teleostei: Macrouridae) from the Mascarene Ridge, western Indian Ocean, with description of two new species. *Proc. Calif. Acad. Sci.* **2020** 66(9), 231-273.
489. Iwamoto, T.; Ungaro, N. A new grenadier (Gadiformes, Macrouridae) from the Mediterranean. *Cybio* **2002** 26(1), 27-32.
490. Iwamoto, T.; Anderson, M.E. New species of *Caelorinchus* (Macrouridae, Gadiformes, Teleostei) from the Indian Ocean. *Copeia* **1999** 1999(4), 1079-1083.
491. Nakayama, N.; Endo, H. A new species of the grenadier genus *Coelorinchus* (Actinopterygii: Gadiformes: Macrouridae) from the Timor Sea, eastern Indian Ocean. *Ichthyol. Res.* **2018** 65, 12-20. (doi:10.1007/s10228-017-0585-4)
492. McMillan, P.; Iwamoto, T. Two new species of *Coelorinchus* (Teleostei, Gadiformes, Macrouridae) from the Tasman Sea. *Proc. Calif. Acad. Sci.* **2009** 60(4), 39-51.
493. Nakayama, N.; Prokofiev, A.M.; Kawai, T. *Coelorinchus posteromaculatus* (Actinopterygii, Gadiformes, Macrouridae), a new species of grenadier from the eastern Indian Ocean. *Ichthyol. Res.* **2020** 67, 465-472. (doi:10.1007/s10228-020-00741-x)
- 494.
495. Nakayama, N.; Takaoka, H.; Miyamoto, K. First Record of the Grenadier *Coelorinchus sheni* (Actinopterygii: Gadiformes: Macrouridae) from Japan. *Species Divers.* **2018** 23(1), 121-127. (doi:10.12782/specdiv.23.121)
496. Prokofiev, A.M.; Iwamoto, T. A new species of the grenadier genus *Coelorinchus* (Gadiformes: Macrouridae) from the western Indian Ocean. *Zootaxa* **2022** 5194(2), 193-212. (doi:10.11646/zootaxa.5194.2.3)

497. McMillan, P.; Iwamoto, T. Descriptions of four species of grenadier fishes of the genera *Hymenocephalus* and *Hymenogadus* (Teleostei, Gadiformes, Macrouridae) from the New Zealand region and Tasman Sea, including two new species of *Hymenocephalus*. *Zootaxa* **2014** 3856(1), 117-134. (doi:10.11646/zootaxa.3856.1.5)
498. Nakayama, N.; Endo, H.; Schwarzhans, W. A new grenadier of the genus *Hymenocephalus* from Tosa Bay, southern Japan (Actinopterygii: Gadiformes: Macrouridae). *Ichthyol. Res.* **2015** 62(4): 504-511. (doi:10.1007/s10228-015-0464-9)
499. Gilbert, C.H.; Hubbs, C. L. (1917). Description of *Hymenocephalus tenuis*, a new macrurid fish from the Hawaiian Islands. *Proc. U. S. Natl. Mus.* **1917** 54 (2231), 173-175. (doi:10.5479/si.00963801.54-2231.173)
500. Iwamoto, T. First Hawaiian record of the grenadier *Lepidorhynchus denticulatus* (Macrouridae: Gadiformes: Teleostei). *Proc. Calif. Acad. Sci.* **2005** 56(1/17), 23.
501. Sazonov, Y.I.; Shcherbachev, Y.N.; Iwamoto, T. The grenadier genus *Mataeocephalus* Berg, 1898 (Teleostei, Gadiformes, Macrouridae), with descriptions of two new species. *Proc. Calif. Acad. Sci.* **2003** 54 (17), 279-301.
502. Nakayama, N.; Endo, H. *Mesovagus*, a replacement name for the grenadier genus *Mesobius* Hubbs and Iwamoto 1977 (Actinopterygii: Gadiformes: Macrouridae), a junior homonym of *Mesobius* Chamberlin 1951 (Chilopoda: Lithobiomorpha: Lithobiidae). *Ichthyol. Res.* **2017** 64, 120-122. (doi:10.1007/s10228-016-0531-x)
503. Ruby, E.G.; Morin, J.G. Specificity of symbiosis between deep-sea fishes and psychrotrophic luminous bacteria. *Deep Sea Res.* **1978** 25(2), 161-167. (doi:10.1016/0146-6291(78)90003-6)
504. Iwamoto, T.; McMillan, P. A new grenadier, genus *Trachonurus*, from New Zealand and Australia (Pisces: Gadiformes: Macrouridae). *Mem. Mus. Victoria* **1997** 56(1), 255-259.
505. Iwamoto, T. *Trachonurus robinsi*, a new species of grenadier (Gadiformes, Macrouridae) from the Philippines. *Bull. Mar. Sci.* **1997** 60(3), 942-949.
506. Gilbert, C.H.; Cramer, F. Report on the fishes dredged in deep water near the Hawaiian Islands, with descriptions and figures of twenty-three new species. *Proc. U. S. Natl. Mus.* **1897** 19 (1114), 403-435. (doi:10.5479/si.00963801.19-1114.403)
507. Merrett, N.R. (2003). Preliminary guide to the identification of the early life history stages of bathygadid & macrurid fishes of the western central North Atlantic; National Oceanic and Atmospheric Administration: Florida, USA, 2003; pp. 1-31.
508. Günther, A.C.L.G. Report on the deep-sea fishes collected by HMS Challenger during the years 1873-76. *Rep. Sci. Res. Voy. HMS Challenger* **1887** 22, 1-268.
509. Cohen, D.M. Bioluminescence in the Gulf of Mexico anacanthine fish *Steindachneria argentea*. *Copeia* **1964** 1964(2), 406-409.
510. Marshall, N.; Cohen, D.M. Order Anacanthini (Gadiformes): characters and synopsis of families. *Mem. Sears Found. Mar. Res.* **1973** 1(6), 479-495.
511. Paulin, C.D.; Roberts, C.D. Review of the morid cods (Teleostei, Paracanthopterygii, Moridae) of New Caledonia, southwest Pacific Ocean, with description of a new species of *Gadella*. In *Résultats des Campagnes MUSORSTOM 17*; Séret, B., Ed.; Mémoires du Muséum national d'Histoire: Paris, France, 1997; pp. 17-41
512. Sazonov, Y.I.; Shcherbachev, Y.N. A review of the Indian Ocean species from the genus *Gadella* (Gadiformes, Moridae), with a description of two new species. *J. Ichthyol.* **2000** 40(Suppl. 1), S64-S73.
513. Paulin, C.D. Review of the morid genera *Gadella*, *Physiculus*, and *Salilota* (Teleostei: Gadiformes) with descriptions of seven new species. *N. Z. J. Zool.* **1989** 16(1), 93-133. (doi:10.1080/03014223.1989.10423706)
514. Long, D.J.; McCosker, J.E. A new species of the morid genus *Gadella* (Teleostei: Gadiformes) from the Galapagos Islands. *Ichthyol. Res.* **1998** 45(1), 1-5. (doi:10.1007/BF02678568)
515. Pires, A.M.; Carvalho-Filho, A.; Ferreira, R.C.; Viana, D.; Nunes, D.; Hazin, F.H. Review of the Brazilian species of *Physiculus* (Gadiformes: Moridae), with description of a new species from Saint Peter and Saint Paul Archipelago, equatorial Atlantic. *Zootaxa* **2019** 4671(1), 67-80. (doi:10.11646/zootaxa.4671.1.5)
516. Babu, K I.; Ho, H.C.; Mariyambi, P.C.; Sureshkumar, S. Two new species of the codling fish genus *Physiculus* from Lakshadweep, India (Gadiformes: Moridae). *Zootaxa* **2022** 5104(1), 111-124. (doi:10.11646/zootaxa.5104.1.6)
517. Tang, C.N. Description of a new codling species of *Physiculus* from Taiwan (Gadiformes: Moridae). *Zootaxa* **2021** 5052(1), 105-116. (doi:10.11646/zootaxa.5052.1.6)
518. Ho, H.C. A new genus and species of the cod fish family Moridae (Order Gadiiformes) from southwestern Taiwan. *Zootaxa* **2019** 4702(1), 32-40. (doi:10.11646/zootaxa.4702.1.8)
519. Gon, O.; Liao, Y.-C.; Kwang-Tsao, S. A new species of the cardinalfish genus *Jaydia* (Teleostei: Apogonidae) from the Philippines. *Zootaxa* **2015** 3980(2), 286-292. (doi:10.11646/zootaxa.4007.4.12)
520. Gon, O.; Allen, G.R. A new luminous cardinalfish of the genus *Apogon* (Perciformes: Apogonidae) from the western Pacific Ocean. *J.L.B. Smith Inst. Ichthyol. Spec. Publ.* **1998** 62, 1-9.

521. Haneda, Y.; Tsuji, F.I.; Sugiyama, N. Luminescent systems in apogonid fishes from the Philippines. *Science* **1969** 165 (3889), 188–190. (doi:10.1126/science.165.3889.188)
522. Fraser, T.H.; Lachner, E.A. An unusual Indo-west Pacific cardinalfish of the genus *Apogon* (Teleostei: Apogonidae). *Proc. Biol. Soc. Wash.* **1984** 97(3), 632–636.
523. Gon, O.; Allen, G.R. Revision of the Indo-Pacific cardinalfish genus *Siphamia* (Perciformes: Apogonidae). *Zootaxa* **2012** 3294(1), 1–84. (doi:10.11646/zootaxa.3294.1.1)
524. Allen, G.R.; Erdmann, M.V. *Siphamia arnaza*, a new species of cardinalfish (Teleostei: Apogonidae) from Papua New Guinea. *J. Ocean Sci. Found.* **2019** 33, 1–8. (doi:10.5281/zenodo.3012186)
525. Fishelson, L.; Gon, O.; Goren, M.; Ben-David-Zaslow, R. The oral cavity and bioluminescent organs of the cardinal fish species *Siphamia permutata* and *S. cephalotes* (Perciformes, Apogonidae). *Mar. Biol.* **2005** 147, 603–609. (doi:10.1007/s00227-005-1613-x)
526. Haneda, Y. Observations on a luminous apogonid fish, *Siphamia versicolor* and on others of the same genus. *Sci. Rep. Yokosuka City Mus.* **1965** 11, 1–12.
527. Haneda, Y.; Tsuji, F.I.; N. Sugiyama, N. Newly observed luminescence in apogonid fishes from the Philippines. *Sci. Rep. Yokosuka City Mus.* **1969** 15, 1–9.
528. Yoshida, T.; Motomura, H. A new cardinalfish, *Verulux solmaculata* (Perciformes: Apogonidae), from Papua New Guinea and Australia. *Ichthyol. Res.* **2016** 64(1), 64–70. (doi:10.1007/s10228-016-0539-2)
529. Fraser, T.H.; Prokofiev, A.M. A new genus and species of cardinalfish (Percomorpha, Apogonidae, Sphaeramiini) from the coastal waters of Vietnam: luminescent or not. *Zootaxa* **2016** 4144(2), 227–242. (doi:10.11646/zootaxa.4144.2.5)
530. Ramaiah, N.; Chandramohan, D. Occurrence of *Photobacterium leiognathi*, as the bait organ symbiont in frogfish *Antennarius hispidus*. *Indian J. Mar. Sci.* **1992** 21, 210–211.
531. Ho, H.-C.; Kawai, T.; Amaoka, K. Records of deep-sea anglerfishes (Lophiiformes: Ceratioidei) from Indonesia, with descriptions of three new species. *Zootaxa* **2016** 4121(3), 267–294. (doi:10.11646/zootaxa.4121.3.3)
532. Ho, H.-C.; Shao, K.-T. Two new deep-sea anglerfishes (Oneirodidae and Gigantactidae) from Taiwan, with synopsis of Taiwanese ceratioids. *Zootaxa* **2019** 4702(1), 10–18. (doi:10.11646/zootaxa.4702.1.5)
533. Bertelsen, E.; Krefft, G. The ceratioid family Himantolophidae (Pisces, Lophiiformes). *Steenstrupia* **1988** 14(2), 9–89.
534. Beebe, W.; Crane, J. Eastern Pacific expeditions of the New York zoological society. XXXVII Deep-sea Ceratioid Fishes. *Zoologica N. Y.* **1947** 31, 151–181.
535. Rajeshkumar, M.; Pietsch, T.W.; Saravanane, N. A new species of deep-sea anglerfish, genus *Himantolophus* (Lophiiformes: Himantolophidae) from the Andaman Sea, India. *Zootaxa* **2022** 5178(6), 589–594. (doi:10.11646/zootaxa.5178.6.6)
536. Stewart, A.L.; Pietsch, T.W. A new species of deep-sea anglerfish, genus *Himantolophus* (Lophiiformes: Himantolophidae) from the Western South Pacific, with comments on the validity of *H. pseudalbinares*. *Zootaxa* **2010** 2671, 53–60.
537. Haneda, Y. Observations on the luminescence of the deep sea luminous angler fish, *Himantolophus groenlandicus*. *Sci. Rept. Yokosuka City Mus.* **1968** 14, 1–6.
538. Pietsch, T.W.; Kenaley, C.P. A new species of deep-sea ceratioid anglerfish, genus *Himantolophus* (Lophiiformes: Himantolophidae), from southern waters of all three major oceans of the world. *Copeia* **2011** 2011(4), 490–496. (doi:10.2307/41416567)
539. Beebe, W. The depths of the sea. Strange life forms a mile below the surface. *Nat. Geogr. Mag.* **1932** 61(1), 65–88.
540. Bertelsen, E. Ceratioidei, Caulophrynidae, Melanocetidae, Himantolophidae, Diceratiidae, Oneirodidae, Thaumatiichthyidae, Centrophrynidae, Ceratiidae, Gigantactinidae, and Linophrynidae]. In *Fishes of the North-eastern Atlantic and Mediterranean*, Vol. 3.; Whitehead, P.J.P.; Bauchot, M.-L., Hureau, J.-C., Nielsen, J.; Tortonese, E., Eds., United Nations Educational Scientific and Cultural Organization: Paris, France, 1986; pp. 1371–1414.
541. Hansen, K.; Herring, P.J. Dual bioluminescent systems in the anglerfish genus *Linophryne* (Pisces: Ceratioidea). *J. Zool.* **1977** 182(1), 103–124. (doi:10.1111/j.1469-7998.1977.tb04144.x)
542. Pietsch, T.W. Ergebnisse der Forschungsreisen des FFS “Walther Herwig” nach Südamerika. XIX. Systematics and distribution of ceratioid fishes of the genus *Dolopichthys* (family Oneirodidae), with the description of a new species. *Arch. FischWiss.* **1972** 23(1), 1–28.
543. Waterman, T.H. Studies on deep-sea anglerfishes (Ceratioidea). I. An historical survey of our present state of knowledge. 11. Three new species. *Bull. Museum Comp. Zool. Harvard* **1939** 85, 65–94. (doi:10.1002/jmor.1050820202)

544. Herring, P.J.; O. Munk. The escal light gland of the deep-sea anglerfish *Haplophryne mollis* (Pisces: Ceratioidei), with observations on luminescence control. *J. Mar. Biol. Assoc. U. K.* **1994** *74*, 747–763. (doi:10.1017/S0025315400090020)
545. Prokofiev, A.M. New and rare species of deepsea pelagic fishes of families Opisthoproctidae, Melanostomiidae, Oneirodidae, and Linophrynidae. *J. Ichthyol.* **2014** *54*(6), 377–383. (doi:10.1134/S0032945214040092)
546. Prokofiev, A.M. New Species and New Records of Deepsea Anglerfish of the Family Oneirodidae. *J. Ichthyol.* **2014** *54* (8), 602–607. (doi:10.1134/S0032945214050075)
547. Rajeeshkumar, M.P.; Meera, K.M.; Hashim, M. A New Species of the Deep-Sea Ceratioid Anglerfish Genus *Oneirodes* (Lophiiformes: Oneirodidae) from the Western Indian Ocean. *Copeia* **2017** *105*(1), 82–84.
548. Pietsch, T.W.; Sutton, T.T. A New Species of the Ceratioid Anglerfish Genus *Lasiognathus* Regan (Lophiiformes: Oneirodidae) from the Northern Gulf of Mexico. *Copeia* **2015** *103*(2), 429–432.
549. Sutton, T.T.; Hulley, P.A.; Wienerroither, R.; Zaera-Perez, D.; Paxton, J.R. (2020). Identification guide to the mesopelagic fishes of the central and south-east Atlantic Ocean. Food and Agriculture Organization of the United Nations: Rome, Italy, 2020; pp. 1–346.
550. Edwards, A.S.; Herring, P.J. Observations on the comparative morphology and operation of the photogenic tissues of myctophid fishes. *Mar. Biol.* **1977** *41*(1), 59–70. (doi:10.1007/BF00390582)
551. Wisner, R.L. The taxonomy and distribution of lanternfishes (family Myctophidae) in the eastern Pacific Ocean. *Rep. U.S. Nav. Ocean Res. Dev. Act.* **1976** *3*, 1–229.
552. Hulley, P.A.; Duhamel, G. A review of the lanternfish genus *Bolinichthys* Paxton, 1972 (Myctophidae). *Cybium* **2009** *33*(4), 259–304.
553. Mensinger, A.F.; Case, J.F. Luminescent properties of deep sea fish. *J. Exp. Mar. Biol. Ecol.* **1990** *144*(1), 1–15. (doi:10.1016/0022-0981(90)90015-5)
554. Widder, E.A. Marine bioluminescence: why do so many animals in the open ocean make light? *Harbor Branch Oceanogr. Inst.* **2001** *1*, 1–9.
555. Barnes, A.T.; Case, J.F. The luminescence of lanternfish (Myctophidae): spontaneous activity and responses to mechanical, electrical, and chemical stimulation. *J. Exp. Mar. Biol. Ecol.* **1974** *15*(2), 203–221. (doi:10.1016/0022-0981(74)90046-X)
556. Kawaguchi, K.; Aioi, K. Myctophid fishes of the genus *Myctophum* (Myctophidae) in the Pacific and Indian Oceans. *J. Oceanogr.* **1972** *28*, 161–175. (doi:10.1007/BF02108760)
557. Gilbert, C.H. Reports on the scientific results of the expedition to the tropical Pacific, in charge of alexander Agassiz, by the U.S. Fish Commission steamer "Albatross" from August 1899 to March 1900, Commander Jefferson T. Moser, U.S.N., commanding. X. The lantern fishes. *Mem. Mus. Comp. Zoology* **1908** *26*(6), 217–237.
558. Hulley, P.A. Myctophidae. In *Smiths' sea fishes*; Smith M.M.; Heemstra, P.C., Eds.; Springer-Verlag: Berlin, Germany, 1986; pp. 282–321.
559. Nafpaktitis, B.G. Systematics and distribution of lanternfishes of the genera *Lobianchia* and *Diaphus* (Myctophidae) in the Indian Ocean. *Nat. Hist. Mus. Los Angeles County, Sci. Bull.* **1978** *30*, 1–92.
560. Prokofiev, A.M.; Emelyanova, O.R.; Orlov, A.M.; Orlova, S.Y. A New Species of *Diaphus* Associated with Seamounts of the Emperor Chain, North-Western Pacific Ocean (Teleostei: Myctophiformes: Myctophidae). *J. Mar. Sci. Eng.* **2022** *10*(1), 65. (doi:10.3390/jmse10010065)
561. Becker, V.E.; Prut'ko, V.G. A new species of the genus *Diaphus* (Myctophidae) from the northeastern Indian Ocean. *J. Ichthyol.* **1984** *24* (6), 883–887.
562. Fowler, H.W. Descriptions of new fishes obtained from 1907 to 1910, chiefly in the Philippine Islands and adjacent seas. *Proc. Acad. Nat. Sci. Phila.* **1934** *85*, 233–367.
563. Becker, V.E. Benthopelagic fishes of the genera *Idiolychnus* and *Diaphus* (Myctophidae) from the southeastern Pacific, with the description of two new species. *J. Ichthyol.* **1992** *32* (6), 3–10.
564. Flynn, A.J.; Pogonoski, J. J. Guide to Mesopelagic Fishes of the Southern Tasman Sea; CSIRO Marine and Atmospheric Research: Hobart, Australia, 2012; pp. 1–221.
565. Borsa, P.; Lagrange, D.; Millet, L.; Vourey, E. Lanternfish *Diaphus* spp. specimens of a DNA barcoding survey of the mesopelagic micronekton communities of the New Caledonian and Wal lis-and-Futuna EEZ. *Research Square* **2022** *14* Aug. (doi :10.21203/rs.3.rs-2973026/v2)
566. Tåning, A.V. Notes on scopelids from the Dana Expeditions. I. *Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn* **1932** *94*, 125–146.
567. Kulikova, E.B. On the lantern fishes of the genus *Diaphus* (Scopelidae) from the western Pacific. *Tr. Inst. Okeanol. Im. P. P. Shirshova, Akad. Nauk SSSR.* **1961** *43*, 5–39.
568. Baguet, F. Excitation and control of isolated photophores of luminous fishes. *Prog. Neurobiol.* **1975** *5*, 97–125. (doi:10.1016/0301-0082(75)90016-7)

569. Nafpaktitis, B.G.; Robertson, D.A.; Paxton, J.R. Four new species of the lanternfish genus *Diaphus* (Myctophidae) from the Indo-Pacific. *N. Z. J. Mar. Freshwater Res.* **1995** *29* (3), 335-344. (doi:10.1080/00288330.1995.9516668)
570. Tsuji, F.I.; Haneda, Y. Luminescent system in a myctophid fish, *Diaphus elucens* Brauer. *Nature* **1971** *233*(5322), 623-624. (doi:10.1038/233623a0)
571. Kawaguchi, K.; Nafpaktitis, B.G. A new lanternfish, *Diaphus kuroshio* (family Myctophidae), from the Kuroshio waters off Japan. *Jpn. J. Ichthyol.* **1978** *25*(2), 89-91. (doi:10.11369/jji1950.25.89)
572. Becker, V.E.; Shcherbachev, Y.N. Benthopelagic species of the families Neoscopelidae and Myctophidae from the Indian Ocean, with a description of a new species of *Diaphus*. *J. Ichthyol.* **1990** *30* (5), 845-855.
573. Nafpaktitis, B.G. Taxonomy and distribution of the lanternfishes, genera *Lobianchia* and *Diaphus*, in the North Atlantic. *Dana Rep.* **1968** *73*, 1-131.
574. Gjøsaeter, J. *Diaphus pallidus* sp. n., a new lanternfish from the Gulf of Aden (Pisces, Myctophidae). *Zool. Scr.* **1989** *18*(4), 537-539. (doi:10.1111/j.1463-6409.1989.tb00147.x)
575. Denton, E.J.; Herring, P.J.; Widder, E.A.; Latz, M.F.; Case, J.F. The roles of filters in the photophores of oceanic animals and their relation to vision in the oceanic environment. *Proc. Roy. Soc. B.* **1985** *225*(1238), 63-97. (doi:10.1098/rspb.1985.0051)
576. Bourret, P. Poissons Téléostéens: Gonostomatidae, Sternoptychidae, et Myctophidae (MUSORSTOM II). In *Résultats des Campagnes MUSORSTOM I et II Philippines (1976, 1980) (Tome 2)*; Forest, J., Ed.; Mémoires du Muséum national d'Histoire naturelle (Série A, Zoologie. 133), Paris, France, 1985; pp. 55-82.
577. Nafpaktitis, B.G. A new record and a new species of lanternfish, genus *Diaphus* (family Myctophidae), from the North Atlantic Ocean. *Contrib. Sci. Los Angel. Calif.* **1974** *254*, 1-6.
578. Gilbert, C.H. The lanternfishes of Japan. *Mem. Carnegie Mus.* **1913** *6*(2), 67-107.
579. Paitio, J.; Yano, D.; Muneyama, E.; Takei, S.; Asada, H.; Iwasaka, M.; Oba, Y. Reflector of the body photophore in lanternfish is mechanistically tuned to project the biochemical emission in photocytes for counterillumination. *Biochem. Biophys. Res. Commun.* **2020** *521*(4), 821-826. (doi:10.1016/j.bbrc.2019.10.197)
580. Duchatelet, L.; Hermans, C.; Duhamel, G.; Cherel, Y.; Guinet, C.; Mallefet, J. Coelenterazine detection in five myctophid species from the Kerguelen Plateau. In *Proceedings of the Second Kerguelen Plateau Symposium on Marine Ecosystems and Fisheries*, Hobart, Australia, 15 November 2017.
581. Nafpaktitis, B.G.; Paxton, J.R. *Idiolychnus*, a new genus of Myctophidae based on *Diaphus urolampus*. *Copeia* **1978** *1978*, 492-497.
582. Maul, G.E. A new subspecies of *Lampadena urophaos* Paxton 1963 from the Atlantic Ocean. *Bocagiana. Bol. Mus. Munic. Funchal* **1969** *22*, 1-8.
583. Zahuranec, B.J. Zoogeography and systematics of the lanternfishes of the genus *Nannobranchium* (Myctophidae: Lampanictini). *Smithson. Contrib. Zool.* **2000** *607*, 1-69. (doi:10.5479/si.00810282.607)
584. Beebe, W. Eastern Pacific expeditions of the New York Zoological Society. XXXIII. Pacific Myctophidae (fishes). *Zool. N.Y.* **1944** *29*, 59-95.
585. O'Day, W.T. The histology and fine structure of some bioluminescent organs in deep-sea fishes. PhD thesis, University of Southern California, Berkeley, USA, September 1972.
586. Day, F. The fishes of India; being a natural history of the fishes known to inhabit the seas and fresh waters of India, Burma, and Ceylon. Bernard Quaritch: London, UK, 1877; pp. 369-552.
587. Becker, V.E.; Borodulina, O.D. "*Myctophum asperum*" species-group with description of a new species, and *Myctophum selenops* Tåning (Myctophidae, Osteichthyes). Taxonomy and distribution. *Tr. Inst. Okeanol. Im. P. P. Shirshova, Akad. Nauk SSSR* **1978** *111*, 108-128.
588. Tsarin, S.A. Description of a new species in the species group "*Myctophum asperum*" (Myctophidae) with comments on this group. *J. Ichthyol.* **1993** *33*(4), 93-98.
589. Nicol, J.A.C.J. Spectral composition of the light of the lanternfish, *Myctophum punctatum*. *J. Mar. Biol. Assoc. U. K.* **1960** *39*(1), 27-32. (doi:10.1017/S0025315400013072)
590. Coad, B.W. *Encyclopedia of Canadian fishes*. Canadian Museum of Nature and Canadian Sportfishing Productions: Singapore, Republic of Singapore, 1995; pp. 1-928.
591. Anctil, M. Stimulation of bioluminescence in lanternfishes (Myctophidae) II. *Can. J. Zool.* **1972** *50*(2), 233-237. (doi:10.1139/z72-034)
592. Hubbs, C.L.; Wisner, R.L. *Parvilux*, a new genus of myctophid fishes from the northeastern Pacific, with two new species. *Zool. Med. Leiden* **1964** *39*, 445-463.
593. Prokofiev, A.M. Two new species of *Protomyctophum* (Pisces, Teleostei, Myctophidae) from the Southern Ocean. *Beaufortia* **2004** *54*(4), 67-74.

594. Anctil, M.; Gruchy, C.G. Stimulation and photography of bioluminescence in lanternfishes (Myctophidae). *J. Fish. Res. Board Can.* **1970** 27(4), 826-829. (doi:10.1139/f70-088)
595. Gago, F.J.; Ricord, R.C. *Symbolophorus reversus*: A New Species of Lanternfish from the Eastern Pacific (Myctophiformes: Myctophidae). *Copeia* **2005** 2005(1), 138-145.
596. Maul G.E. Nota sobre as duas espécies de género *Neoscopelus*. *Bol. Mus. Munic. Funchal* **1951** 5(13), 56-63.
597. Arai, R. A new iniomous fish of the genus *Neoscopelus* from Suruga Bay, Japan. *Bull. Natn. Sci. Mus. Tokyo* **1969** 12(3), 465-471.
598. Poulsen, J.Y.; Thorkildsen, S.; Arboe, N.H. Identification keys to halosaurs and notacanthids (Notacanthiformes, Elopomorpha) in the subarctic Atlantic Ocean including three new distributional records and multiple molecular OTUs of *Notacanthus cf. chemnitzii*. *Mar. Biodivers.* **2018** 48, 1009-1025. (doi:10.1007/s12526-017-0762-8)
599. Garman, S. The fishes. *Mem. Mus. Comp. Zool. Harvard* **1899** 24, 1-43 1.
600. McAllister, D. E. The significance of ventral bioluminescence in fishes. *J. Fish. Res. Board Can.* **1967** 24(3), 537-554. (doi: 10.1139/f67-047)
601. Wood-Mason, J.; Alcock, A. Natural history notes from H.M. Indian marine survey steamer 'Investigator', Commander R.F. Hoskyn, R.N., commanding. Series II, No. 1. On the results of deep-sea dredging during the season 1890-1891. *Ann. Mag. Nat. Hist.* **1891** 8(6), 268-284.
602. Nielsen, J.G.; Bertelsen, E. The gulper-eel family Saccopharyngidae (Pisces, Anguilliformes). *Steenstrupia* **1985** 11(6), 157-206.
603. Tighe, K. A.; Nielsen, J.G. *Saccopharynx berteli*, a new gulper eel from the Pacific Ocean (Teleostei, Saccopharyngidae). *Ichthyol. Res.* **2000** 47(1), 39-41. (doi:10.1007/BF02674311)
604. Beebe, W. Nineteen new species and four post-larval deep-sea fish. *Zool. N. Y.* **1932** 13, 47-107.
605. Melo, M.R.S. A revision of the genus *Pseudoscopelus* Lütken (Chiasmodontidae: Acanthomorpha) with descriptions of three new species. *Zootaxa* **2010** 2710, 1-78. (doi:10.11646/zootaxa.2710.1.1)
606. Poey y Aloy, F. *Memorias sobre la historia natural de la isla de Cuba, acompañadas de sumarios latinos y extractos en francés*. Imprenta de Barcina: Havana, Cuba, 1851; pp. 311-312.
607. Grey, M. Gonostomatidae. In *Fishes of the Western North Atlantic*; Bigelow, H.B.; Cohen, D.M.; Dick, M.M.; Gibbs, R.H.Jr.; Grey, M.; Morrow, J.E.Jr.; Schultz, L.P.; Eds.; Memoir I Sear Foundation for Marine Research (Part 4): New Haven, USA, 1964; pp. 78-240.
608. Claes, J.M.; Mallefet, J. Hormonal control of luminescence from lantern shark (*Etmopterus spinax*) photophores. *J. Exp. Biol.* **2009** 212(22), 3684-3692. (doi:10.1242/jeb.034363)
609. Miya, M. *Cyclothone kobayashii*, a new gonostomatid fish (Teleostei: Stomiiformes) from the Southern Ocean, with notes on its ecology. *Copeia* **1994** 1994, 191-204.
610. Ozawa, T.; Oda, K.; Ida, T. Systematics and distribution of the *Diplophos taenia* species complex (Gonostomatidae), with a description of a new species. *Jpn. J. Ichthyol.* **1990** 37(2), 98-115. (doi:10.11369/jji1950.37.98)
611. David, P.M. (1970). Vertical distribution of zooplankton at 18N, 25W - RRS" Discovery" Cruise 30, 15 October-15 December 1969. National Institute of Oceanography: Wormley, UK, 1970; pp. 1-30.
612. Koeda, K.; Ho, H.C. A new Portholefish of the genus *Diplophos* (Stomiiformes: Gonostomatidae) from the western Pacific Ocean. *Zootaxa* **2019** 4702(1), 107-113. (doi:10.11646/ZOOTAXA.4702.1.15)
613. Ozawa, T.; Katayama, H. Early ontogeny of a South Pacific gonostomatid fish *Sigmops longipinnis*. *Ichthyol. Res.* **2003** 50, 195-197. (doi:10.1007/s10228-002-0151-5)
614. Mukhacheva, V.A. A review of the genus *Ichthyococcus* Bonaparte (Photichthyidae). *J. Ichthyol.* **1980** 20(6), 1-14.
615. Baguet, F.; Maréchal, G. Bioluminescence of bathypelagic fish from the Strait of Messina. *Comp. Biochem. Physiol. C Toxicol. Pharmacol.* **1976** 53(2), 75-82. (doi:10.1016/0306-4492(76)90057-5)
616. Parin, N.V.; Borodulina, O.D. Survey of the genus *Polymetme* (Photichthyidae) with a description of two new species. *J. Ichthyol.* **1990** 30(6): 108-121.
617. Mallefet, J.; Shimomura, O. Presence of coelenterazine in mesopelagic fishes from the Strait of Messina. *Mar. Biol.* **1995** 124, 381-385. (doi:10.1007/BF00363911)
618. Ahlstrom, E.; Counts, R. Development and distribution of *Vinciguerrria lucetia* and related species in the Eastern Pacific. *Fish. Bull.* **1958** 139(58), 363-416.
619. Johnson, R.K.; Feltes, R.M. A new species of *Vinciguerrria* (Salmoniformes: Photichthyidae) from the Red Sea and Gulf of Aqaba, with comments on the depauperacy of the Red Sea mesopelagic fish fauna. *Fieldiana Zool.* **1984** 22, 1-35. (doi:10.5962/bhl.title.2849)
620. Evseenko, S.A.; Suntssov, A.V. Early Stages of Development of Rare Deepwater Fishes from Notal Waters of the Southwestern Pacific. *J. Ichthyol.* **1995** 35(8), 111-122.

621. Ahlstrom, E.H.; Moser, H.G. A new gonostomatid fish from the tropical eastern Pacific. *Copeia* **1969** 1969(3), 493-500.
622. Prokofiev, A.M. *Argyripnus boreopacificus* sp. nova, a new species of hatchetfishes (Sternoptychidae) from the subtropical Northwestern Pacific. *J. Ichthyol.* **2017** 57(2), 325-328. (doi:10.1134/S0032945217020151)
623. Quéro, J.C. ; Spitz, J. ; Vayne, J.J. *Argyripnus hulleyi*: une nouvelle espèce de Sternoptychidae (Stomiiformes) de l'île de la Réunion (France, océan Indien). *Cybium* **2009** 33(1), 39-43.
624. Schultz, L.P. Review of the fishes of the genera *Polyipnus* and *Argyropelecus* (Family Sternoptichidae), with descriptions of three new species. *Proc. U. S. Natl. Mus.* **1938** 86(3047), 135-155. (doi:10.5479/si.00963801.86-3047.135)
625. Krönström, J.; Holmgren, S.; Baguet, F.; Salpietro, L.; Mallefet, J. Nitric oxide in control of luminescence from hatchetfish (*Argyropelecus hemigymnus*) photophores. *J. Exp. Biol.* **2005** 208(15), 2951-2961. (doi:10.1242/jeb.01712)
626. Grey, M. A preliminary review of the family Gonostomatidae, with a key to the genera and the description of a new species from the tropical Pacific. *Bull. Mus. Comp. Zool. Harvard* **1960** 122, 57-125.
627. Ahlstrom, E.H.; Richards, W.J.; Weitzman, S.H. Families Gonostomatidae, Sternoptychidae, and associated stomiiform groups: development and relationships. Proceedings from *An International Symposium Dedicated to the Memory of Elbert Halvor Ahlstrom*, Lawrence, USA, 15-18 august 1983.
628. Parin, N.V.; Kobylansky, S.G. Review of the genus *Maurolicus* (Sternoptychidae, Stomiiformes), with re-establishing validity of five species considered junior synonyms of *M. muelleri* and descriptions of nine new species. *Tr. Inst. Okeanol. im. P. P. Shirshova, Akad. Nauk SSSR* **1993** 128, 69-107.
629. Baguet, F.; Christophe, B. Adrenergic stimulation of isolated photophores of *Maurolicus muelleri*. *Comp. Biochem. Physiol. C Toxicol. Pharmacol.* **1993** 75(1), 79-84. (doi:10.1016/0742-8413(83)90014-2)
630. Vourey, E.; Dupoux, C.; Harold, A.S. A new species of *Polyipnus* (Stomiiformes: Sternoptychidae) from the Western South Pacific. *Zootaxa* **2017** 4263(3), 567-577. (doi:10.11646/zootaxa.4263.3.8)
631. Haneda, Y. Some luminous fishes from the genera *Yarrella* and *Polyipnus*. *Pac. Sci.* **1952** 4,13-16.
632. Liao, Y.C.; Shao, K.T. Redescription of hatchetfish, *Thorophos nexilis* (Myers, 1932)(Pisces: Stomiiformes: Sternoptychidae: Maurolicinae) from the Philippines with a key to the genus *Thorophos* Bruun, 1932. *J. Nat. Taiwan Mus.* **2008** 61(1), 17-23.
633. Parin, N.V.; Borodulina, O.D. Phylogeny, systematics, and zoogeography of the mesopelagic genus *Astronesthes* (Astronesthidae, Stomiiformes). *J. Ichthyol.* **2003** 43, 581- 601.
634. Liao, Y.-C.; Chen, L.-S.; Shao, K.-T. Review of the Astronesthid fishes (Stomiiformes: Stomiidae: Astronesthinae) from Taiwan with a description of one new species. *Zool. Stud.* **2006** 45(4), 517-528.
635. Nakayama, N.; Ohashi, S.; Tanaka, F. A new species of *Astronesthes* (Actinopterygii, Stomiidae, Astronesthinae) snaggletooth from the tropical western Pacific, with comments on the occurrence of *Astronesthes luetkeni* Regan and Trewavas in Japanese waters. *Ichthyol. Res.* **2021** 69, 8-89. (doi:10.1007/s10228-021-00813-6)
636. Barnett, M.A.; Gibbs R.H.Jr. Four new stomiatoid fishes of the genus *Bathophilus* with a revised key to the species of *Bathophilus*. *Copeia* **1968** 1968(4), 826-832.
637. Morrow, J.E.,Jr. Astronesthidae. In *Fishes of the Western North Atlantic*; Bigelow, H.B.; Cohen, D.M.; Dick, M.M.; Gibbs, R.H.Jr.; Grey, M.; Morrow, J.E.Jr.; Schultz, L.P.; Eds.; Memoir I Sear Foundation for Marine Research (Part 4): New Haven, USA, 1964; pp. 311-350.
638. Morrow, J.E.,Jr. Chauliodontidae. In *Fishes of the Western North Atlantic*; Bigelow, H.B.; Cohen, D.M.; Dick, M.M.; Gibbs, R.H.Jr.; Grey, M.; Morrow, J.E.Jr.; Schultz, L.P.; Eds.; Memoir I Sear Foundation for Marine Research (Part 4): New Haven, USA, 1964; pp. 274-289.
639. Morrow, J.E.Jr. 1961. Taxonomy of the deep sea fishes of the genus *Chauliodus*. *Bull. Mus. Comp. Zool.* **1961** 125, 249-294.
640. Mallefet, J.; Duchatelet, L.; Hermans, C.; Baguet, F. Luminescence control of Stomiidae photophores. *Acta Histochem.* **2019** 121(1), 7-15. (doi:10.1016/j.acthis.2018.10.001)
641. Novikova, N.S. A new species of the genus *Chauliodus* (Pisces, Chauliodontidae) from the southeastern Pacific. *J. Ichthyol.* **1972** 12(1), 41-48.
642. Beebe, W.; Crane, J. Deep-sea fishes of the Bermuda oceanographic expeditions: family Melanostomiidae. *Zool. N. Y.* **1939** 24, 65-238.
643. Prokofiev, A.M. Three New Species of *Eustomias* (Melanostomiidae) From the Southern Subtropical Waters with the Description of a New Subgenus. *J. Ichthyol.* **2018** 58(1), 1-7. (doi:10.1134/S0032945218010113)
644. Nicol, J.A.C. (1969). 7 Bioluminescence. In *Fish physiology*; Hoar, W.S.; Randall, D.J.; Academic Press: Cambridge, USA, 1969; pp. 355-400

645. Koeda, K.; Ho, H.C. Review of the genus *Eustomias* (Stomiiformes: Stomiidae: Melanostomiinae) of Taiwan, with descriptions of three new species. *Zootaxa* **2019** 4702(1), 94-106. (doi:10.11646/zootaxa.4702.1.14)
646. Prokofiev, A.M. On Some Little-known Melanostomiidae with the Description of a New Species of *Eustomias*. *J. Ichthyol.* **2020** 60(3), 345-354. (doi:10.1134/S0032945220030121)
647. Prokofiev, A.M. New *Eustomias* Species (Melanostomiidae) from New Caledonia. *J. Ichthyol.* **2020** 60(2): 331-334. (doi:10.1134/S0032945220020162)
648. Prokofiev, A.M.; Orlov, A.M. *Eustomias securicula* sp. nov.—the Second Representative of the Subgenus *Biradiostomias* (Melanostomiidae) in the Pacific Ocean. *J. Ichthyol.* **2022** 62(2), 316-319. (doi:10.1134/S0032945222020151)
649. Prokofiev, A.M. New Species of *Eustomias* from the Waters of Madagascar (Melanostomiidae). *J. Ichthyol.* **2019** 59(2), 263-265. (doi:10.1134/S0032945219020176)
650. Prokofiev, A.M. *Grammatostomias ovatus* sp. nova (Melanostomiidae). *J. Ichthyol.* **2014** 54(6), 426-427. (doi:10.1134/s0032945214040109)
651. Brauer, A. Die Tiefsee-Fische. I. Systematischer Teil. In *Wissenschaftl. Ergebnisse der deutschen Tiefsee-Expedition "Valdivia," 1898-99*; Chun, C., Ed., Gustav fischer, Jena, Germany, 1906, pp. 1-432.
652. Beebe, W. Deep-sea fishes of the Bermuda Oceanographic expeditions. Family Idiacanthidae. *Zool. N. Y.* **1934** 16, 149-241.
653. Morrow, J.E.Jr.; Gibbs, R.H.Jr., Melanostomiidae. In *Fishes of the Western North Atlantic*; Bigelow, H.B.; Cohen, D.M.; Dick, M.M.; Gibbs, R.H.Jr.; Grey, M.; Morrow, J.E.Jr.; Schultz, L.P.; Eds.; Memoir I Sear Foundation for Marine Research (Part 4): New Haven, USA, 1964; pp. 351-511.
654. Kenaley, C.P. Revision of the stoplight loosejaw genus *Malacosteus* (Teleostei: Stomiidae: Malacosteinae), with description of a new species from the temperate Southern Hemisphere and Indian Ocean. *Copeia* **2007** 2007(4), 886-900.
655. Parin, N.V.; Pokhil'skaya, G.N. On the taxonomy and distribution of the mesopelagic fish genus *Melanostomias* Brauer (Melanostomiidae, Osteichthyes). *Tr. Inst. Okeanol. Im. P. P. Shirshova, Akad. Nauk SSSR* **1978** 111, 61-86.
656. Norman, J.R. Oceanic fishes and flatfishes collected in 1925-1927. *Discovery Rep.* **1930** 2, 261-369.
657. Milkova, V. Range records for ten species of stomiiform, aulopiform, and myctophiform fishes in British Columbia, Canada. *Northwest. Nat.* **2016** 97(2), 113-123. (doi:10.1898/NWN15-11.1)
658. Herring, P J.; Cope, C. Red bioluminescence in fishes: on the suborbital photophores of *Malacosteus*, *Pachystomias* and *Aristostomias*. *Mar. Biol.* **2005** 148(2), 383-394. (doi:10.1007/s00227-005-0085-3)
659. Prokofiev, A.M.; Frable, B.W. A new species of *Photonektes* from the Pacific Ocean off Oahu, Hawaii with a revised identification key for the genus (Teleostei: Stomiidae: Melanostomiinae). *Ichthyol. Herpetol.* **2021** 109(3), 720-727. (doi:10.1643/i2020148)
660. Prokofiev, A.M.; Klepadlo, C. Two new species of *Photonektes* with blue luminous tissue on body, and a re-examination of *P. mirabilis* (Teleostei: Stomiidae). *Zootaxa* **2019** 4590(2), 270-282. (doi:10.11646/zootaxa.4590.2.4)
661. Prokofiev, A.M. Materials for revision of the genus *Photonektes* (Melanostomiidae). *J. Ichthyol.* **2019** 59, 449-476. (doi:10.1134/S003294521904012X)
662. Kenaley, C.P.; Hartel, K.E. A revision of Atlantic species of *Photostomias* (Teleostei: Stomiidae: Malacosteinae), with a description of a new species. *Ichthyol. Res.* **2005** 52, 251-263. (doi:10.1007/s10228-005-0281-7)
663. Kenaley, C.P. Revision of Indo-Pacific species of the loosejaw dragonfish genus *Photostomias* (Teleostei: Stomiidae: Malacosteinae). *Copeia* **2009** 2009(1), 175-189.
664. Gibbs, R.H.Jr. Taxonomy, sexual dimorphism, vertical distribution, and evolutionary zoogeography of the bathypelagic fish genus *Stomias* (family Stomiidae). *Smithson. Contrib. Zool.* **1969** 31, 1-25.
665. Bolin, R L. A new stomiatoid fish from California. *Copeia* **1939** 1939(1), 39-41.
666. Johnson, G.D.; Rosenblatt, R.H. Mechanisms of light organ occlusion in flashlight fishes, family Anomalopidae (Teleostei: Beryciformes), and the evolution of the group. *Zool. J. Linn. Soc.* **1988** 94(1), 65-96. (doi:10.1111/j.1096-3642.1988.tb00882.x)
667. Rosenblatt, R.H.; Johnson, G.D. *Parmops coruscans*, a new genus and species of flashlight fish (Beryciformes: Anomalopidae) from the South Pacific. *Proc. Biol. Soc. Wash.* **1991** 104(2), 328-334.
668. Johnson, G.D.; Seeto, J.; Rosenblatt, R.H. *Parmops echinatus*, a new species of flashlight fish (Beryciformes: Anomalopidae) from Fiji. *Proc. Biol. Soc. Wash.* **2001** 114 (2), 497-500.
669. Hellinger, J.; Jägers, P.; Spoida, K.; Weiss, L.C.; Mark, M.D.; Herlitze, S. Analysis of the Territorial Aggressive Behavior of the Bioluminescent Flashlight Fish *Photoblepharon steinitzi* in the Red Sea. *Front. Mar. Sci.* **2020** 7, 78. (doi:10.3389/fmars.2020.00078)

670. Ho, H.-C.; Johnson, G.D. *Protoblepharon mccoskeri*, a new flashlight fish from eastern Taiwan (Teleostei: Anomalopidae). *Zootaxa* **2012** 3479, 77-87. (doi:10.11646/zootaxa.3479.1.5)
671. Baldwin, C.C.; Johnson, G.D.; Paxton, J.R. *Protoblepharon rosenblatti*, a new genus and species of flashlight fish (Beryciformes: Anomalopidae) from the tropical South Pacific, with comments on anomalopid phylogeny. *Proc. Biol. Soc. Wash.* **1997** 110 (3), 373-383.
672. Su, Y.; Lin, H.-C.; Ho, H.-C. A new cryptic species of the pineapple fish genus *Monocentris* (Family Monocentridae) from the western Pacific Ocean, with redescription of *M. japonica* (Houttuyn, 1782). *Zootaxa* **2022** 5189(1), 180-203. (doi:10.11646/zootaxa.5189.1.18)
673. Ghedotti, M.J.; DeKay, H.M.; Maile, A.J.; Smith, W.L.; Davis, M.P. (2021). Anatomy and evolution of bioluminescent organs in the slimeheads (Teleostei: Trachichthyidae). *J. Morphol.* **2021** 282(6), 820-832. (doi:10.1002/jmor.21349).
674. Haneda, Y. Observations on luminescence in the deep sea fish, *Paratrachichthys prothemius*. *Sci. Rep. Yokosuka City Mus.* **1957** 2, 15-23.
675. Suntsov, A.V.; Widder, E.A.; Sutton, T.T. Bioluminescence in larval fishes. In *Fish Larval Physiology*, Finn, R.N.; Kapoor, B.G., Eds.; Univ. Bergen Press: Bergen, Norway, 2008; pp. 51-88.
676. Satterlie, R.A.; Anderson, P.A.V.; Case, J.F. Colonial coordination in anthozoans: Pennatulacea. *Mar. Behav. Physiol.* **1980** 7(1), 25 - 46. (doi:10.1080/10236248009386969)
677.)