

A GUIDE FOR PREPARING MANUSCRIPT

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Registration in ZooBank (<http://zoobank.org/>) of all nomenclatural acts on zoology published in Paleontological Research is mandatory prior to online publication. The authors must register new taxa and any nomenclatural acts in due time and provide LSID in Systematic palaeontology section.

Organisation of the manuscript

The main document should contain title, abstract, keywords, main text, references, author contributions (when needed), figure and table captions and appendixes in that order.

Title. A title is to be brief and simple and should summarize the major scientific results of the paper.

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Format of systematic palaeontology. The typical format for arrangement of systematic paleontology can be learned from current issues of the journal. All descriptions of new taxa must include a diagnosis, and, as appropriate, stratigraphic and geographic indications, designation of a type or types, depository information, and specification of illustrations. In synonymies use an abbreviated form of the reference, consisting only of author(s) of reference, date of publication, and numbers of pages, plates, figures and text-figures referring to the organism or organisms in question.

A new genus or species should be indicated by using "gen. nov." or "sp. nov.", respectively (e.g. *Newhousia* gen. nov. and *Hydrolithon braganum* sp. nov.). Other expressions such as "n. gen." and "n. sp." cannot be accepted in our journal. Use qualifiers "aff." or "cf." as in these examples: *Gaudryceras* cf. *izumiense* and *Pachydiscus* aff. *flexuosus*. Other expressions such as *Gaudryceras* cf. *G. izumiense* and *Pachydiscus* aff. *P. flexuosus* are not acceptable. In the case that a question mark is used to express uncertainty of the identification to generic or species level, it should be placed unitalicized and without a space after the generic or species name: *Globorotalia?* *Truncatulinoidea* and *Neogloboquadrina pachyderma?*

Vermeijia japonica sp. nov.

Figure 2.1, 2.2

Ariadnaria insignis (Middendorff). Ogasawara et al., 1986, pl. 37, fig. 3a, b.

Etymology.—The present new species is named for the country of Japan.

Type specimens.—Holotype, UMUT CM 32795; para-type, UMUT CM 32796.

Type Locality.—River bank at 1.3 km upstream along the Koide River, Shibata City, Niigata Prefecture (Loc. 3 in Figure 1 = Loc. 2 of Amano et al., 2000a); Kuwae Formation.

Family Nassariidae Iredale, 1916
Subfamily Cylleninae Bellardi, 1882
Genus *Cyllene* Gray in Griffith and Pidgeon, 1834

Type species.—*Cyllene owenii* Gray in Griffith and Pidgeon, 1834.

A systematic work in a larger work should be cited correctly as the following example:

O. keokuk Gurley, 1884, and *O. missourensis* (Shumard, 1858 in Shumard and Swallow, 1858) also exhibit a dorsal apex in the posterior half of the valve.

Capital initial letters are used for expression of geologic time (Early, Middle or Late) and rock units (Lower, Middle, Upper) only where formally erected as divisions; use lower case elsewhere. More information on stratigraphical terms and usage can be found on the website of International Commission on Stratigraphy. The new definition of strata follows the International Stratigraphy Guide.

References. Entries are to be listed alphabetically regardless of the number of authors. If an article has more than seven authors, list the names of the first six authors followed by “*et al.*” No abbreviations will be used in article and book titles. Journal titles are written out, not abbreviated. Series, volume, and part indicating a position in a chronological sequence are to be given, with the appropriate word abbreviated in each case (“ser.”, “vol.”, etc.; see the examples). “The” placed at the beginning of a journal name should be deleted: not “The Island Arc” but “Island Arc”; an exception is made for “The Quaternary Research” published by the Japan Association for Quaternary Research.

Optional clarifications should be put in parentheses: Transactions of the Geological Society (London) [1811 to 1822; thereafter the title became Transactions of the Geological Society of London]; Philosophical Transactions of the Royal Society (London) prior to 1800, when “of London” was added. To this day, the Linnaean Society does not identify itself as “of London” in its various journals; to add that would be a mistake. Places of publication that might be unrecognizable or unfamiliar (e.g. Latinate place names) can be explained.

For author names, the family name is written first separated by a comma from the given names; in case two or more authors share the same family name and initials, spell out the given names. Some cultures allow the practice of a single given name only, and in those cases the single names suffice and are cited according to the individual’s preference. If there are multiple transliteration systems for the language not using the Latin alphabet, an alternative spelling can be given in parentheses, e.g. Huzimoto (Fujimoto).

Journals

Barron, J. A., 1983: Latest Oligocene through early Middle Miocene diatom biostratigraphy of the eastern tropical Pacific. *Marine Micropaleontology*, vol. 7, p. 487–515.

- Barron, J. A. and Keller, G., 1982: Widespread Miocene deep-sea hiatuses: Coincidence with periods of global cooling. *Geology*, vol. 10, p. 577–581.
- Bisconti, M., Munsterman, D. K., Fraaije, R. H. B., Bosselaers, M. and Post, K., 2020: A new species of rorqual whale (Cetacea, Mysticeti, Balaenopteridae) from the Late Miocene of the Southern North Sea Basin and the role of the North Atlantic in the paleobiogeography of Archaeobalaenoptera. *PeerJ*, doi: 10.7717/peerj.8315.
- Bisconti, M., Munsterman, D. K. and Post, K., 2019: A new balaenopterid whale from the late Miocene of the Southern North Sea Basin and the evolution of balaenopterid diversity (Cetacea, Mysticeti), *PeerJ*, doi: 10.7717/peerj.6915.
- Hoek, C. van den, Cortel-Breeman, A. M. and Wanders, B. W., 1975: Algal zonation in the fringing coral reef of Curaçao, Netherlands Antilles, in relation to zonation of corals and gorgonians. *Aquatic Botany*, vol. 1, p. 269–308.
- Igo, Hisayoshi and Igo, Hisaharu, 1977: Upper Permian fusulinaceans contained in the pebbles of the basal conglomerate of the Adoyama Formation, Kuzuu, Tochigi Prefecture, Japan. *Transactions and Proceedings of the Palaeontological Society of Japan*, n. ser., no. 106, p. 89–99.
- Itoigawa, J., 1970: Miocene molluscan fossils from the Mizunami district, Gifu Pref. 2. In, Editorial Committee of “Atlas of Japanese Fossils,” ed., Atlas of Japanese Fossils, nos. 11–63, pl. N-22. Tsukiji Shokan Publishing, Tokyo. (*in Japanese*)
- Kuramoto, S., 1996: Geophysical investigation for methane hydrates and the significance of BSR. *Journal of the Geological Society of Japan*, vol. 11, p. 951–958. (*in Japanese with English abstract*)
- Matsumoto, T. and Yoshida, S., 1979: A new gaudryceratid ammonite from eastern Hokkaido. *Transactions and Proceedings of the Palaeontological Society of Japan*, n. ser., no. 114, p. 65–76.
- Nakamori, T., 1986: Community structures of Recent and Pleistocene hermatypic corals in the Ryukyu Islands, Japan. *Science Reports of the Tohoku University, 2nd Series (Geology)*, vol. 56, p. 71–133.
- Nakatani, D. and Nakaya, H., 2023: A plesiosaur (Reptilia: Sauropterygia) from the Upper Cretaceous (Campanian) Izumi Group of Higashi Kagawa City, Kagawa Prefecture, South Western Japan. *Fossils*, no. 113, p. 5–16. (*in Japanese with English abstract*)
- Reimer, P. J., Austin, W. E. N., Bard, E., Bayliss, A., Blackwell, P., Bronk Ramsey, C. *et al.*, 2020: The IntCal20 Northern Hemisphere radiocarbon age calibration curve (0-55 cal kBP). *Radiocarbon*, vol. 62, p. 725–757.
- Ruzhentsev, V. E. and Shimansky, V. N., 1954: Nizhnepermskie svernutie i sognutie nautiloidei yuzhnogo Urala. *Trudy Paleontologicheskogo Instituta Akademii Nauk SSSR*, vol. 50, p. 1–152, pls. 1–15. (*in Russian*)
- OR
- Ruzhentsev, V. E. and Shimansky, V. N., 1954: Lower Permian coiled and curved nautiloids of the southern Urals. *Trudy Paleontologicheskogo Instituta Akademii Nauk SSSR*, vol. 50, p. 1–152, pls. 1–15. (*in Russian; original title translated*)
- Sato, T., 1955: Les Ammonites recueilies dans le groupe de Kuruma, nord du Japon central. *Transactions and Proceedings, Palaeontological Society of Japan*, n. ser., no. 20, p. 111–118. (*in French with Japanese abstract*)
- An online article that has not yet been published elsewhere (and which therefore has no volume, issue or page numbers) can be cited by its Digital Object Identifier (DOI).
- Hübers, M. and Kerp, H., 2012: Oldest known mosses discovered in Mississippian (late Viséan) strata of Germany. *Geology*, doi:10.1130/G33122.1.
- If plates are not paginated, indicate their numbers as follows.
- Kummel, B., 1963: Miscellaneous nautilid type species of Alpheus Hyatt. *Bulletin of the Museum of Comparative Zoology*, vol. 128, p. 325–368, pls. 1–30.

- Ager, D. V., 1963: *Principles of Paleocology*, 371 p. McGraw-Hill Co., New York.
- Born, I. von, 1778: *Index Rerum Naturalium Musei Caesarei Vindobonensis. Pars Prima, Testacea*, 458 p. Officina Krausiana, Vindobonae (Vienna).
- Laborde Pédelahore, P. de. 2000: *Alcide d'Orbigny. À la Découverte des Nouvelles Républiques Sud-américaines*, 400 p. Atlantica, Biarritz.
- Linnaeus, C., 1758: *Systema naturae, par regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Editio decima, reformata. Tomus 1*, iv + 823 p. Laurentii Salvii, Holmiae (Stockholm).
- Nishimura, S., 1974: *Origin and history of the Japan Sea: An approach from [the] biogeographic standpoint*, 274 p. Tsukiji Shokan, Tokyo. (in Japanese)

Chapter in a book

- Akiba, F., 1986: Middle Miocene to Quaternary diatom biostratigraphy in the Nankai Trough and Japan Trench, and modified lower Miocene through Quaternary diatom zones for middle-to-high latitudes of the North Pacific. In, Kagami, H., Karig, D. E., Coulbourn, W. T. *et al. eds.*, *Initial Reports of the Deep Sea Drilling Project*, vol. 87, p. 393–481. U. S. Government Printing Office, Washington, DC.
- Bosence, D. W. J., 1995: Anatomy of a Recent biodetrital mud-mound, Florida Bay, USA. In, Monty, C. L. V., Bosence, D. W. J., Bridges, P. H. and Pratt, B. R. *eds.*, *Carbonate Mud-Mounds, their Origin and Evolution*, p. 475–493. Special Publication of the International Association of Sedimentologists, no. 23, Blackwell, London.
- Burckle, L. H., 1978: Marine diatoms. In, Haq, B. U. and Boersma, A. *eds.*, *Introduction to Marine Micropaleontology*, p. 245–266. Elsevier, New York.
- Orbigny, A. d', 1839: Foraminifères. In, Sagra, R. de la *ed.*, *Histoire Physique, Politique et Naturelle de l'Île de Cuba*, p. 1–224. Arthus Bertrand, Paris.
- Yabe, H. and Hanzawa, S., 1930: [A stratigraphic study of Tertiary foraminiferous rocks in Taiwan.] *Jubilee Publication in the Commemoration of Professor Takuji Ogawa's 60th Birthday*, p. 83–126. Kobundo-shobo, Kyoto. (in Japanese; original title translated)

Electronic material

- Japan Oceanographic Data Center, 2011: *J-DOSS, Oceanographic Data and Information Download Service (Temperature, Current, Depth, Biology, Marine Information)* [online]. [Cited 24 August 2011]. Available from: http://www.jodc.go.jp/index_j.html.

Author contributions. The contributions of each coauthor should follow the References in the following style: M.Y. initiated the study and was primarily responsible for the taxonomic aspects. H.Y. carried out the geochemical analysis and its interpretation. T.K. performed the statistical analysis of the data. All authors contributed to the writing of the paper.

Figure captions. Figure captions are to be typed separately. The captions should be written in either one of the following two styles. If the caption consists of items, follow the first style. If the caption includes sentence(s), follow the second one. Figure 2. Photographs of specimen RM30907 (UMUT RM30907) and CM30908 (UMUT CM30908). **A**, outer surface of right and left valves (RM30907); **B**, inner surface of right and left valves (RM30907); **C**, inner surface of right valve (CM30908). Arrows show the sections for the acetate peels. Figure 3. Schematic illustrations of thecideoid (A) and productide (B, C, D, E) lophophores. **A**, ontogenetic change in the thecideoid lophophore. Ventral (upper) and anteroventral (lower) views of the internal dorsal area are shown for each morphological type of lophophore. Arrows on the lophophore ridges indicate the postulated direction of the transportation of food particles to the mouth. **B**, (The rest is omitted).

4. Tables and figures

Figures. All illustrations, including maps, geologic sections, and halftone illustrations (including “plates”) are to be called figures and must be numbered in the same sequence as they are first cited in the text. Citations of illustrations in the text are to be spelled out in full (e.g. Figure 2 or Figure 2.1). Plan the illustrations so that they take up either the entire width of the printed page (170 mm) or the width of one column (80 mm). An illustration and its caption must be included in the same printed page. Originals should not be smaller than the final intended size for printing. No foldouts will be accepted. Photographs of all specimens except sections must be illuminated from the upper left side, as is conventional. The size of material should be indicated by a scale bar or described in a figure caption (length = 3.5 cm). Indication by magnification (x 3.5) is not allowed. Massive raw data should be included in an Appendix, which will be placed at the end of a paper.

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