

ID: W2088397358

TITLE: Modern benthic ostracodes from Lutzow-Holm Bay, East Antarctica: paleoceanographic, paleobiogeographic, and evolutionary significance

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ABSTRACT:

Research Article| November 01, 2007 Modern benthic ostracodes from Lutzow-Holm Bay, East Antarctica: paleoceanographic, paleobiogeographic, and evolutionary significance Moriaki Yasuhara; Moriaki Yasuhara 1U.S. Geological Survey, 926A National Center, Reston, Virginia 20192, USA \*Present address: Department of Paleobiology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20013-7012, USA. Search for other works by this author on: GSW Google Scholar Masako Kato; Masako Kato 2Institute of Geosciences, Faculty of Science, Shizuoka University, Shizuoka 422-8529, Japan Search for other works by this author on: GSW Google Scholar Noriyuki Ikeya; Noriyuki Ikeya 2Institute of Geosciences, Faculty of Science, Shizuoka University, Shizuoka 422-8529, Japan Search for other works by this author on: GSW Google Scholar Koji Seto Koji Seto 3Research Center for Coastal Lagoon Environments, Shimane University, Matsue 690-8504, Japan email: moriakiyasuhara@gmail.com or yasuharam@si.edu Search for other works by this author on: GSW Google Scholar Author and Article Information Moriaki Yasuhara \*Present address: Department of Paleobiology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20013-7012, USA. 1U.S. Geological Survey, 926A National Center, Reston, Virginia 20192, USA Masako Kato 2Institute of Geosciences, Faculty of Science, Shizuoka University, Shizuoka 422-8529, Japan Noriyuki Ikeya 2Institute of Geosciences, Faculty of Science, Shizuoka University, Shizuoka 422-8529, Japan Koji Seto 3Research Center for Coastal Lagoon Environments, Shimane University, Matsue 690-8504, Japan email: moriakiyasuhara@gmail.com or yasuharam@si.edu Publisher: Micropaleontology Press Received: 01 Aug 2007 Accepted: 21 Jan 2008 First Online: 03 Mar 2017 Online ISSN: 0026-2803 Print ISSN: 1937-2795 © 2007 The Micropaleontology Project, Inc. Micropaleontology (2007) 53 (6): 469-496. <https://doi.org/10.2113/gsmicropal.53.6.469> Article history Received: 01 Aug 2007 Accepted: 21 Jan 2008 First Online: 03 Mar 2017 Cite View This Citation Add to Citation Manager Share Icon Share Facebook Twitter LinkedIn MailTo Tools Icon Tools Get Permissions Search Site Citation Moriaki Yasuhara, Masako Kato, Noriyuki Ikeya, Koji Seto; Modern benthic ostracodes from Lutzow-Holm Bay, East Antarctica: paleoceanographic, paleobiogeographic, and evolutionary significance. Micropaleontology 2007;; 53 (6): 469-496. doi: <https://doi.org/10.2113/gsmicropal.53.6.469> Download citation file: Ris (Zotero) Refmanager EasyBib Bookends Mendeley Papers EndNote RefWorks BibTex toolbar search Search Dropdown Menu toolbar search search input Search input auto suggest filter your search All ContentBy SocietyMicropaleontology Search Advanced Search Abstract Seventy-three ostracode species from 38 genera were recovered from the 55 surface sediment samples in Lutzow-Holm Bay, northeastern Antarctica. We investigated bathymetric and geographic distributions of modern benthic ostracode species in the bay and compared this fauna with published modern and fossil ostracode data of Antarctic and southern South American regions. The results show: (1) Four biotopes and three sub-biotopes are recognized based on Q-mode cluster analysis, which suggest distributions of modern ostracodes are mainly controlled by water-mass structure, ice scouring, and light availability. (2) Comparison between the Lutzow-Holm Bay fauna and other ostracode faunas from Antarctica and southern South America shows high endemism and homogeneity of Antarctic ostracode fauna, suggesting in situ evolution of most extant Antarctic species. (3) Most species are endemic to the Antarctica, a few species also inhabit South American waters. You do not have access to this content, please speak to your institutional administrator if you feel you should have access.

SOURCE: Micropaleontology

PDF URL: None

CITED BY COUNT: 16

PUBLICATION YEAR: 2007

TYPE: article

CONCEPTS: ['Bay', 'Benthic zone', 'Oceanography', 'Library science', 'Institution', 'Geography', 'Geological survey', 'Archaeology', 'Geology', 'Paleontology', 'Sociology', 'Social science', 'Computer science']