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Antarctic Biology: Scale Matters Peter Convey, Katrin Linse, Huw James Griffiths, Bruno Danis, Anton Pieter Van de Putte, Alison

Elizabeth Murray,2020-06-04 *Ross Sea Ecology* F.M. Faranda,L. Guglielmo,Adrianna Ianora,2012-12-06 The Antarctic represents the last of the world's still unexplored continents Since 1985 Italy has sent 10 expeditions to this region three of those have been exclusively devoted to research on the marine ecology of the Ross Sea region This volume presents a global picture of this research It includes contributions on water mass characteristics particulate organic matter and nutrient utilization and physiological aspects of primary production Further topics are zooplankton krill and top predator interactions in relation to physical and biological parameters ecological features of coastal fish communities and the spatio temporal variability of benthic biocenoses

Bryozoan Paleobiology Paul D. Taylor,2020-07-08 Bryozoa are among the most abundant yet least understood of phyla in the fossil record These exclusively colonial animals can be traced back to the Ordovician as fossils and are common elements of sediments deposited in shallow marine environments On occasion their calcareous skeletons are sufficiently numerous to produce bryozoan limestones The potential of bryozoans in facies analysis and their use in macroevolutionary studies have both been widely recognised but to date have been incompletely exploited Bryozoan Paleobiology brings together the scattered research on living and fossil bryozoans in broad and profusely illustrated overview that will help students and researchers alike in understanding this fascinating group of animals Beginning with the basics of bryozoan morphology ecology and classification the book progresses from the smallest scale of skeletal ultrastructure to the largest of bryozoan distributions in time and space On the way topics such as the origin of zooidal polymorphism and macroevolutionary trends in colony forms are covered Case studies illuminate these topics and areas in which further research is particularly required are highlighted

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