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National Report to SCAR for years 2013/2014						
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SCAR DATABASE						

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS:

Life Sciences

Ecology of Antarctic and sub-Antarctic terrestrial habitats

Bogdanowicz W., Pilot M., Gajewska M., Suchecka E., Golachowski M. 2013. Genetic diversity in a moulting colony of southern elephant seals in comparison with breeding colonies.

Marine Ecology Progress Series 478: 287-300. Kaczmarek Ł., Janko K., Smykla J., Michalczyk Ł. 2013. Soil tardigrades from the Antarctic Peninsula with a description of a new species and some remarks on the genus *Ramajendas* (Eutardigrada: Isohypsibiidae). **Polar Record** 50: 176 – 182. Ochyra R., Zander R.H., Lebouvier M. 2014. Antipodal mosses: XVIII. *Syntrichia christophei* (Pottiaceae), a new species from subantarctic Iles Kerguelen. **Cryptogamie, Bryologie** 35: 37-46. Wódkiewicz M., Ziemiański M., Kwiecień K., Chwedorzewska K.J., Galera H. 2013. Spatial structure of the soil seed bank of *Poa annua* L. - alien species in the Antarctica. **Biodiversity and Conservation** 23: 1339-1346. Zdanowski M., Żmuda-Baranowska M., Borsuk P., Świętecki A., Górniak D., Wolicka D., Jankowska K.M., Grzesiak J. 2013. Culturable bacteria community development in postglacial soils of Ecology Glacier, King George Island, Antarctica. **Polar Biology** 36: 511-527.

Studies on the diversity and functioning of the Antarctic marine ecosystem

Błażewicz-Paszkowycz M., Siciński J. 2014. Diversity and distribution of Tanaidacea (Crustacea) along Victoria Land transect (Ross Sea, Southern Ocean). **Polar Biology** 37: 519-529.

Błażewicz-Paszkowycz M. 2014. 5.19. Tanaidacea. **Biogeographic Atlas of the Southern Ocean** (in press). CAML contr. No. 115; 9 pp, 5 maps. De Broyer C., Jazdzewska A. 2014. 5.17.

Biogeographic patterns of Southern Ocean benthic amphipods. **Biogeographic Atlas of the Southern Ocean** (in press). CAML contr. No 115; 12 pp, 25 maps. Laskowski Z., Jeżewski W., Zdzitowiecki K. 2013. Description of a New Opecoelid Trematode Species from Nototheniid Fish in the Beagle Channel (Sub-Antarctica). **Journal of Parasitology** 99: 487-489.

O'Loughlin P. M., Stępień A., Kuźniak M., Van Den Spiegel D. 2013. A new genus and four new species of sea cucumbers (Echinodermata) from Admiralty Bay, King George Island **Polish Polar Research** 34: 67-86.

International projects

- 1) “A novel approach to monitoring the impact of climate change on Antarctic ecosystems” – based on data recorded by Unmanned Aerial Vehicles (UAV). Started in 2013, managed by the team of the Dept. Antarctic Biol., Inst. Biochem. Biophys. Pol. Acad. Sci. (head- K. Chwedorzewska) with collaboration of Northern Research Institute, Tromsø, Norway and Warsaw University of Technology, Poland.
- 2) “Tanaidacea (Crustacea, Malacostraca) of the southern hemisphere – taxonomy, diversity, community structure and zoogeography”. 2011-2014. Managed by the team of Dept. Polar Biol. & Oceanobiol., Univ. Łódź (head – M. Błażewicz-Paszkwycz), with collaboration of the University of Southampton, Gr. Britain and Museum Victoria, Melbourne, Australia.

Geosciences

Cenozoic glaciations and biota evolution: evidence from West Antarctica

Cenozoic benthic foraminiferal evolution in West Antarctica

Antarctic fossil penguins: evolutionary trends

Seismic investigations of the crustal structure of the South Shetland Islands, West Antarctica

- Bieńkowska-Wasiluk M., Bonde N., Møller P. R. & Gaździcki A. 2013. Eocene relatives of cod icefishes (Perciformes: Notothenioidei) from Seymour Island, Antarctica. **Geological Quarterly** 57 (4): 567–582. Jadwiszczak P. 2013. Taxonomic diversity of Eocene Antarctic penguins: a change picture. In: Hambrey M.J. Barker P.F., Barrett P.J., Bowman V., Davies B., Smellie J.L. & Tranter M. (eds) *Antarctic Palaeoenvironments and Earth-Surface Processes*. Geological Society, London, Special Publications 381: 129-138. Jadwiszczak P. & Acosta Hospitaleche C. 2013. Distinguishing between two Antarctic species of Eocene Palaeodyptes penguins: a statistical approach using tarsometatarsi. **Polish Polar Research** 34 (3): 237-252. Jadwiszczak P., Acosta Hospitaleche C. & Reguero M. 2013. Redescription of *Crossovallia unienwillia* – the only Paleocene Antarctic penguin. **Ameghiniana** 50 (6): 545-553. Jadwiszczak P., Krajewski K.P., Pushina Z., Tatur A. & Zieliński G. 2013. The first record of fossil penguins from East Antarctica. **Antarctic Science** 25 (3): 397-408. Jadwiszczak P. 2014. Synsacra of the Eocene Antarctic penguins: new data on spinal maturation and an insight into their role in the control of walking. **Polish Polar Research** 35 (1): 27-39. Jadwiszczak P. & Gaździcki A. 2014. First report on hind-toe development in Eocene Antarctic penguins. **Antarctic Science** 26 (3): 279-280. Janik T., Grad M., & Środa P. 2013. Crustal structure and Moho depth along the Antarctic Peninsula. The Scotia Arc: Geodynamic Evolution and Global Implications, Conference 14-16 May 2013, Granada, Spain, Conveners: Maldonado A., Dalziel I., and Leat P. Abstract Volume: 69-70. Janik T., Grad M. & Guterch A. 2014. Five Polish seismic expeditions to the West Antarctica (1979-2007). **GEOPLANET** (in press). Janik T., Grad M., Guterch A. and Środa P. 2014. Deep seismic structure of the Earth's crust along the Antarctic Peninsula – summary of results from Polish geodynamical expeditions, **Global and Planetary Change** (submitted). Kukliński P. & Balazy P. 2014. Scale of temperature variability in maritime Antarctic intertidal zone. **Journal of Sea Research** 85: 542-546. Majewski W. 2013. Benthic foraminifera from Pine Island and Ferrero bays, Amundsen Sea. **Polish Polar Research** 34 (3): 169-200. Majewski W. & Gaździcki A. 2014. Shallow water benthic foraminifera from the Polonez Cove Formation (lower Oligocene) of King George Island, West Antarctica. **Marine Micropaleontology** 111: 1-14. Mozer A. 2013. Eocene sedimentary facies in a volcanogenic succession on King George Island, South Shetland Islands: a record of pre-ice sheet terrestrial environments in West Antarctica. **Geological Quarterly** 57 (3): 385-394. Quaglio F., Warren L.V., Anelli L.E., Dos Santos P.R., Rocha-Campos A.C., Gaździcki A., Strikis P.C., Ghilardi R.P., Tiozzi A.B. & Simões M.G. 2014. Shell beds from the Low Head Member (Polonez Cove Formation, early Oligocene) at King George Island, west Antarctica: new insights on facies analysis, taphonomy and environmental significance. **Antarctic Science** 26 (4): 400-412.