

**POLISH ACADEMY OF SCIENCES
Polish National Committee on SCAR**

POLISH ANTARCTIC RESEARCH

**REPORT TO SCAR
1998–2001**

**Record of Activities: January 1998 to December 2001
Polish Antarctic Bibliography 1998–2001
Centres of Polish Antarctic Research**

WARSZAWA 2002

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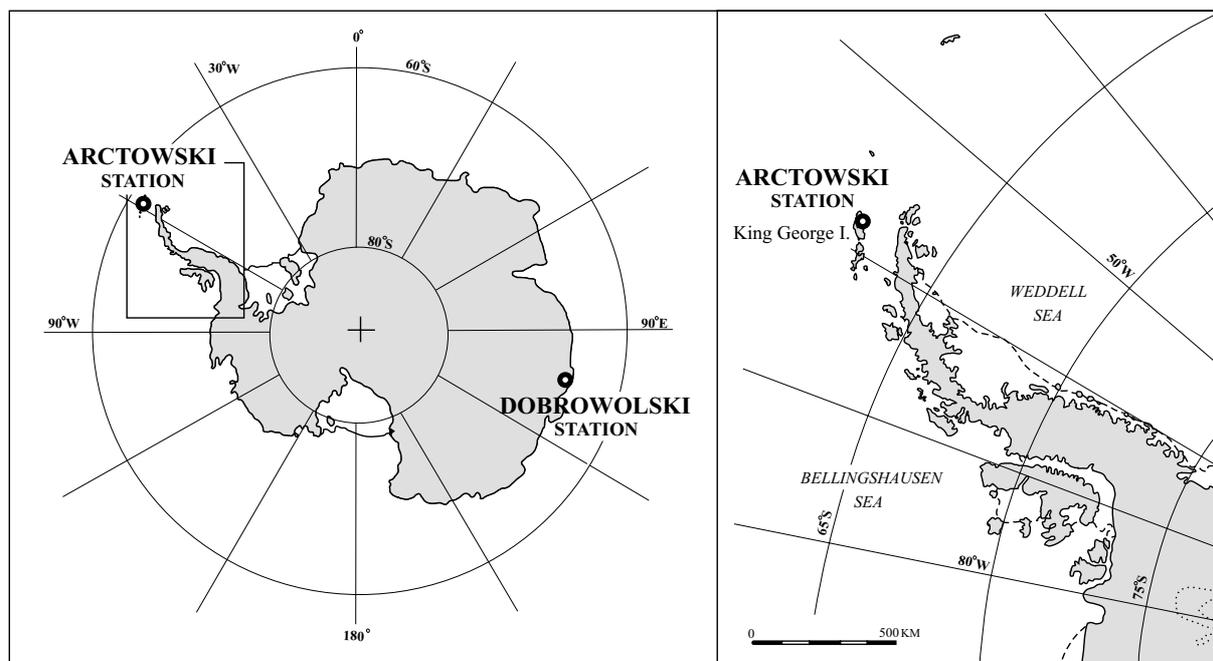
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POLISH ANTARCTIC STATIONS

Name	Location	Latitude	Longitude	Altitude	Operating
<i>Henryk Arctowski</i>	King George Island, South Shetland Islands	62°09' S	58°28' W	3 m	permanently
Programmes being carried out at the Arctowski Station: limnology, theriology, ornithology, plant ecology, marine biology, geology, paleontology					
<i>Antoni B. Dobrowolski</i>	Bunger Hills	66°17' S	100°45' E	35 m	temporarily closed



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INTRODUCTION

This report has been prepared by the Polish National Committee on SCAR for the Scientific Committee on Antarctic Research of the International Council of Science (ICSU).

The present report includes:

1. Record of scientific activities: January 1998 to December 2001
2. Bibliography of the Polish Antarctic research 1998–2001
3. List of centres of the Polish Antarctic research

EXPEDITIONS

XXIII Expedition to *Arctowski* Station, 1998–2000

Leader – Zbigniew Battke M.Sc.

Departed from Gdynia on November 4th 1998. Expedition returned home in February 2000.

Included 14 members of wintering group, 5 members of summer party and 2 visiting German scientists.

Programme:

1. Research in the framework of EASIZ programme
2. Meteorological and climatic observations
3. Trophochemoreception in marine invertebrates and fish
4. Bioenergetics of marine benthic invertebrates
5. Ecological studies of pinnipeds
6. Studies of seasonal changes of phytoplankton carbon biomass and species composition
7. Charting of the SSSI No. 8 area
8. Sociological testing (in co-operation with USA)
9. Research on the influence of tourists in the *Arctowski* Station area (in co-operation with UK)
10. Studies of nutrient concentration in freshwater bodies in the *Arctowski* Station area
11. Establishment of control network for GIS and for ecosystem monitoring programme
12. Participation in International Antarctic GPS 99' Epoch Campaign as a part of GIANT programme working Group on Geodesy and Geographic Information of SCAR.

XXIV Expedition to *Arctowski* Station, 1999–2001

Leader – Sebastian Baranowski M.Sc.

Departed from Gdynia on November 3rd 1999. Expedition returned home in January 2001.

Included 11 members of wintering group, with 1 Peruvian scientist and 4 members of summer party.

Programme:

1. Research in the framework of EASIZ programme
2. Meteorological and climatic observations
3. Trophochemoreception in marine invertebrates and fish
4. Bacterial decomposition of organic mater of marine origin on land in the vicinity of *Arctowski* Station

5. Ecological studies of pinnipeds
6. Studies of seasonal changes of phytoplankton carbon biomass and species composition
7. Genetic variability in vertebrates and in vascular plant species on King George Island
8. Sociological testing (in co-operation with USA)
9. Estimation of the ability of psychrophilic bacteria to natural transformation
10. Studies of nutrient concentration in freshwater bodies in the *Arctowski* Station area
11. Estimation of the use of Antarctic soils for plant cultivation (joint Polish– Chilean project)
12. Charting of the SSSI No. 8 area
13. Research on the influence of tourists in the *Arctowski* Station area (in co-operation with UK)

XXV Expedition to *Arctowski* Station, 2000–2001

Leader – Tomasz Janecki M.Sc.

Departed from Gdynia on November 7th 2000. Expedition returned home in January 2001.

Included 11 members of wintering group, 4 members of summer party and one visiting student from Sweden.

Programme:

1. Research in the framework of EASIZ programme
2. Trophochemoreception in marine invertebrates and fish
3. Genetic variability in vascular plants in the vicinity of the *Arctowski* Station
4. Studies of nutrient concentration in freshwater bodies in the *Arctowski* Station area
5. Monitoring of phytoplankton in Admiralty Bay
6. New geological map of Admiralty Bay in 1:50 000 scale
7. New topographic map of SSSI No 8 in 1:10 000 scale
8. Sociological testing (in co-operation with USA).

XXVI Expedition to *Arctowski* Station, 2001–2002

Leader – Dr Paweł Loro

Departed from Gdynia on November 9th 2001. The expedition reached *Arctowski* Station on December 20th 2001. The return of the expedition is planned for January 2003.

Included 13 members of wintering group (one scientist from Ukraine), plus 6 members of the summer party.

Programme:

1. Research performed according to EASIZ
2. Studies on the colonization and succession of plants
3. Distribution of vascular plants of the Antarctic herb communities in land ecosystems of Admiralty Bay and King George Bay – charting of the SSSI No. 8 and SSSI No. 34
4. Mosses communities of the stream banks in the vicinity of the *Arctowski* Station
5. Seed banks in different environments
6. Influence of physical factors on seed dispersion
7. Anatomy studies on grass and herbs in the vicinity of the *Arctowski* Station
8. Morphometric plasticity of subpopulation of *Deschampsia antarctica*
9. Influence of nitrogen compounds in the air on activity of nitroreductase
10. Chlorophyll contents in the main primary producers of land ecosystem
11. Carbohydrates in the tissue of *Deschampsia antarctica*

CURRENT PROJECTS

Marine Biology

Location	Project	Principal investigators	Centres
Admiralty Bay, King George Island	Trophochemoreception in marine fish and invertebrates	A. Kidawa	(1)
Admiralty Bay, King George Island	Monitoring of seasonal changes of phytoplankton carbon biomass and species composition	E. Kopczyńska F. Dehairs	(1) Belgium
Admiralty Bay, King George Island	Diet studies of Antarctic fur seals	P. Ciaputa	(1)
Admiralty Bay, King George Island	Monitoring of five species of pinnipeds on the western shore of Admiralty Bay	K. Salwicka	(1)
<i>Henryk Arctowski</i> Station, King George Island	Monitoring of human activities at the <i>H. Arctowski</i> Station	S. Rakusa-Suszczewski K. Salwicka P. Ciaputa	(1) (1) (1)
Admiralty Bay, King George Island	Isolation of enzymes useful in biotechnology of Antarctic bacterial cultures	M. Zdanowski P. Węgleński	(1) (23)
Admiralty Bay, King George Island	Actualisation of protection regulations in the area of the <i>H. Arctowski</i> Station activities on the background of the ecosystem variability	S. Rakusa-Suszczewski P. Ciaputa K. Salwicka E. Kamler K. Birkenmajer I. Zwolska	(1) (1) (1) (1) (1, 4) (1)
Admiralty Bay, King George Island	Communities of diatoms (Bacillariophyceae) in euphotic benthic zone	R. Ligowski K. Jażdżewski	(8) (8)
Antarctica	Morphology, biocenology and biogeography of marine organisms, with special attention to the recent and extinct Antarctic communities	K. Jażdżewski A. Gaździcki M. Grabowski W. Kittel A. Konopacka R. Ligowski P. Presler J. Siciński	(8) (5, 8) (8) (8) (8) (8) (8) (8)
Antarctica	Structure and ecological role of plankton and benthos in the Antarctic near-shore zone	M. Błażewicz-Paszkowycz K. Jażdżewski A. Gaździcki W. Kittel A. Konopacka J. Siciński	(8) (8) (5, 8) (8) (8) (8)
Admiralty Bay, King George Island	Diversity of the soft bottom polychaete fauna	J. Siciński	(8)
Admiralty Bay, King George Island	Asteroids and ophiuroids (Echinodermata)	P. Presler	(8)
Admiralty Bay, King George Island	Cumacea and Tanaidacea (Crustacea, Malacostraca)	M. Błażewicz-Paszkowycz	(8)

Terrestrial Biology

Location	Project	Principal investigators	Centres
King George Island	Ecophysiology of Wilson's storm petrel (<i>Oceanites oceanicus</i>)	P. Jadwiszczak A.K. Gębczyński	(20) (20)
Admiralty Bay, King George Island, SSSI no. 8	Plant colonization and succession on recent moraines	M. Olech	(6)
King George Island	Taxonomy of algae	B. Kawecka A. Massalski T. Mrozińska M. Olech	(22) (16) (16) (6)
King George Island	Ultrastructure of pioneer soil algae	A. Massalski M. Olech	(16) (6)
Antarctica	Taxonomy of lichens	M. Olech L. Śliwa U. Soechting	(6) (6) Denmark
West Antarctica	Impact of human activity on the Antarctic environment	M. Olech P. Osyczka W. Mietelski E. Dutkiewicz	(6) (6) (24)
Antarctica	Freezing protection mechanism in polar lichens	M. Olech H. Harańczyk S. Gaździński	(6) (25)
Admiralty Bay, King George Island	Studies of nutrient concentration in freshwater bodies in the <i>Arctowski</i> Station area	M. Juchnowicz-Bierbasz	(1)
Admiralty Bay, King George Island	Interactions in the near-shore zone	I. Zwolska M. Juchnowicz-Bierbasz K. Birkenmajer	(1) (1) (4)
Admiralty Bay, King George Island	Role of psychrotrophic and psychrofilic bacteria in decomposition of organic matter of marine origin deposited on the shore	M. Zdanowski I. Zwolska M. Juchnowicz-Bierbasz	(1) (1) (1)
Antarctica	Catalogue of the Antarctic mosses	R. Ochyra S. Bednarek-Ochyra R.I. Lewis Smith	(7) (7) UK
Prince Edward Islands	Moss flora	H. Bednarek-Ochyra V.R. Smith	(7) South Africa
Antarctica	The illustrated moss flora	R. Ochyra H. Bednarek-Ochyra R.I. Lewis Smith	(7) (7) UK
Antarctica	The liverwort flora	H. Bednarek-Ochyra J. Vana R. Ochyra R.I. Lewis Smith	(7) Czech Republic (7) UK
Antarctic Peninsula	Ornithogenic ecosystems	A. Tatur	(2)

Geology

Location	Project	Principal investigators	Centers
Anvers Island, Brabant Island	Geology of Gerlache Strait	K. Birkenmajer	(4)
Adelaide Island	Ore geology, Reptile Ridge	K. Birkenmajer M. Doktor A. Piestrzyński	(4) (4) (4)
King George Island	Tertiary volcanics, Tertiary glaciations, Quaternary geology	K. Birkenmajer	(4)
Antarctic Peninsula, South Shetland Islands	Stratigraphy: Mesozoic and Cenozoic	K. Birkenmajer	(4)
Admiralty Bay, King George Island	Glacier retreat	K. Birkenmajer	(1)
Admiralty Bay, King George Island	Geological map 1:50, 000 scale	K. Birkenmajer	(1)
Antarctic Peninsula	Paleolimnological investigations	A. Tatur R. del Valle	(2) Argentina

Paleobiology

Location	Project	Principal investigators	Centers
King George Island	Early Cambrian fossils from glacial erratics	R. Wrona	(5)
King George Island	Palynomorphs from Tertiary sequences	A. Gaździcki L. Cao, Y. Shen	(5) China
King George Island	Foraminifera from the Tertiary glacio-marine strata	A. Gaździcki	(5)
King George Island	Brachiopods from the Oligocene-Miocene strata	M.A. Bitner J.A. Crame M.R.A. Thomson A. Troedson	(5) UK UK UK
Seymour Island	Bryozoans from the La Meseta Formation (Eocene)	U. Hara	(21)
Seymour Island	Taxonomic revision of Eocene Antarctic penguins, based on tarsometatarsal morphology	P. Jadwiszczak A. Gaździcki A. Tatur C. Tambussi J. Noriega R. del Valle	(20) (5) (2) Argentina Argentina Argentina
Kerguelen Plateau	Mid-Miocene warming event and planktonic foraminifera	W. Majewski	USA (5)
Kerguelen Plateau	Middle Miocene surface-water paleoceanography at site 747	W. Majewski S. Bohaty J. Zachos	(5) USA USA
Kerguelen Plateau	Comparison between Miocene planktonic foraminiferal successions at ODP 744 (South Indian Ocean) and ODP 982 (North Atlantic)	W. Majewski	(5)

Solid Earth Geophysics

Location	Project	Principal investigators	Centres
Antarctic Peninsula, West Antarctica	Seismic characteristics of the crust and lower lithosphere in the transition zone from Pacific Ocean to the Antarctic Peninsula, between Elephant Island and Marguerite Bay	M. Grad A. Guterch T. Janik	(18) (3) (3)
Antarctic Peninsula, South Shetland Islands, West Antarctica	3-Dimensional modelling of the crustal structure in the contact zone between Antarctic Peninsula and South Pacific from seismic data	P. Środa	(3)
West Antarctica	Polish Geodynamic Expeditions – crustal seismic structure of West Antarctica. Summary of the results.	A. Guterch M. Grad T. Janik P. Środa	(3) (18) (3) (3)

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