



Antarctic Treaty

Electronic Information Exchange System

Party: Poland
2014/2015 Annual Information

Scientific Information - Forward Plans

Science Plan/Program/Project:	Ecological monitoring – long-term bird and pinniped observation programme on King George Island
Planned Operating Period:	From To
	Organisation:
	Name: Małgorzata Korczak-Abshire
Contact Point:	Job Title or Position: Department of Antarctic Biology Institute of Biochemistry and Biophysics Polish Academy of Sciences
	Phone:
	Email: mka@ibb.waw
Details/Description:	<p>To detect and record significant changes in critical biological components of the ecosystem a whole year program to monitor breeding and non-breeding birds and pinniped species in ASPA No 128 Western Shore of Admiralty Bay, King George Island, South Shetland Islands has been conducted over the past 34 years. Since 2007 monitoring program in ASPA No 151 Lions Rump, King George Island, South Shetland Islands was established by Poland and has been conducted during each Antarctic summer season. This krill-dependent predator monitoring program follows the CCAMLR Ecosystem Monitoring Program (CEMP) standards. The following CEMP indices were included: penguin breeding population size (number of pairs) (P. adeliae, P. papua, P. antarcticus), breeding success (chick counts) (P. adeliae, P. papua, P. antarcticus), penguin chick weight (g) at fledgling (Procedure A) (P. adeliae), breeding chronology (P. adeliae, P. papua, P. antarcticus). Additionally, the following parameters were recorded: flying birds census and breeding success, spatial and geographic distribution of bird nests, pinniped census and breeding population estimation, records of non-breeding bird species, monitoring of marked birds and pinnipeds, records of whale appearance in King George Bay. Potential impact of UAV (MONICA - A novel approach to monitoring the impact of climate change on Antarctic ecosystems) overflights on P. adeliae colony at Pt. Thomas were investigated, preliminary guidelines for safe UAV use were worked out.</p>
Link (URL):	
Additional Information:	
Discipline:	
	Areas of Activity

Science Plan/Program/Project:	MONICA - A novel approach to monitoring the impact of climate change on Antarctic ecosystems
Planned Operating Period:	From To
	Organisation:
	Name: Katarzyna Chwedorzewska
Contact Point:	Job Title or Position: Department of Antarctic Biology Institute of Biochemistry and Biophysics Polish Academy of Sciences
	Phone:
	Email: kchwedorzewska@o2.pl
Details/Description:	<p>The aim of the project is to study impact of climate change on Antarctic ecosystem and biodiversity. The program's detailed objectives are: 1. adapting fixed-wing UAVs, equipped with advanced sensors, to the maritime Antarctic climate, 2. using UAVs for collecting environmental data (digital aerial photographs with application of geo-information tools) on King George Island. Participants: Institute of Biochemistry and Biophysics, Warsaw University of Technology (Poland) and Northern Research Institute (Norway).</p>

Areas of Activity

Areas of Activity

Scientific Information - Science Activities in Previous Year

Project Name/Number:	Ecological monitoring – long-term bird and pinniped observation programme on King George Island	
Discipline:	ecology	
Principal Investigator:	Małgorzata Korczak-Abshire (Department of Antarctic Biology, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland)	
Main Activity/ Remarks:	<p>To detect and record significant changes in critical biological components of the ecosystem a whole year program to monitor breeding and non-breeding birds and pinniped species in ASPA No 128 Western Shore of Admiralty Bay, King George Island, South Shetland Islands has been conducted over the past 34 years. Since 2007 monitoring program in ASPA No 151 Lions Rump, King George Island, South Shetland Islands was established by Poland and has been conducted during each Antarctic summer season. This krill-dependent predator monitoring program follows the CCAMLR Ecosystem Monitoring Program (CEMP) standards. The following CEMP indices were included: penguin breeding population size (number of pairs) (P. adeliae, P. papua, P. antarcticus), breeding success (chick counts) (P. adeliae, P. papua, P. antarcticus), penguin chick weight (g) at fledgling (Procedure A) (P. adeliae), breeding chronology (P. adeliae, P. papua, P. antarcticus). Additionally, the following parameters were recorded: flying birds census and breeding success, spatial and geographic distribution of bird nests, pinniped census and breeding population estimation, records of non-breeding bird species, monitoring of marked birds and pinnipeds, records of whale appearance in King George Bay. Potential impact of UAV (MONICA - A novel approach to monitoring the impact of climate change on Antarctic ecosystems) overflights on P. adeliae colony at Pt. Thomas were investigated, preliminary guidelines for safe UAV use were worked out.</p>	
Link (URL):		
Additional Information:		
Operating Period:	From:	To:
	Areas of Operation	
	King George Island	

Project Name/Number:	MONICA - A novel approach to monitoring the impact of climate change on Antarctic ecosystems	
Discipline:	ecology	
Principal Investigator:	dr Katarzyna Chwedorzewska (Department of Antarctic Biology, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland)	
Main Activity/ Remarks:	<p>The aim of the project is to study impact of climate change on Antarctic ecosystem and biodiversity. The program's detailed objectives are: 1. adapting fixed-wing UAVs, equipped with advanced sensors, to the maritime Antarctic climate, 2. using UAVs for collecting environmental data (digital aerial photographs with application of geo-information tools) on King George Island. Participants: Institute of Biochemistry and Biophysics, Warsaw University of Technology (Poland) and Northern Research Institute (Norway). In Nov/Dec 2014 eight successful photogrammetry missions (total distance 1500 km; in 6,5 hours) were performed, covering coastal zones of ASPA No 128, ASPA No 151, as well as Chabrier Rock and Shag Islands. More than 25 thousand Pygoscelis penguin nests in seven breeding colonies were mapped.</p>	
Link (URL):		
Additional Information:		
Operating Period:	From:	To:
	Areas of Operation	
	King George Island	

Project Name/Number:	Monitoring of the structure of the Earth's electric field from Polish observation stations in the Antarctic, Arctic and central Europe	
Discipline:	earth sciences	
Principal Investigator:	dr Marek Kubicki (Institute of Geophysics Polish Academy of Sciences)	
	<p>This project is aimed at better understanding of the processes and phenomena operating in the Earth's electric atmosphere and ionosphere. Coordinated observations of atmospheric electricity (the global atmospheric electric circuit, GEC) are done at Polish observational stations: Geophysical Observatory in Swider (Poland: 21.25°E, 52.12°N, geomagnetic latitude ~48°N), Polish Polar</p>	

Main Activity/ Remarks:	Station "Hornsund" (Svalbard, Norway: 15.50°E, 77.00°N, geom. ~74°N), Polish Antarctic Station "Arctowski" (South Shetland Islands: 58.47°W, 62.16°S, geom. ~51°S). The role of the GEC generator that has its source in the solar-wind magnetosphere interaction and the ionospheric convection are studied at different latitudes. Using superDARN radar observations we will reduce the electric data from polar regions for the effects of the ionospheric convection and we will be looking for such effects at mid-latitudes. This work is supported by Polish National Science Center (NCN), grant number UMO-2011/01/B/ST10/07118.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
Areas of Operation	

Project Name/Number:	The causes, course and consequences of the expansion of <i>Poa annua</i> L. in Western Antarctica, a multi-aspect population study
Discipline:	ecology/botany
Principal Investigator:	Katarzyna Chwedorzewska (Department of Antarctic Biology, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland)
Main Activity/ Remarks:	The aim of the project is to analyze causes, course and results of the expansion of <i>Poa annua</i> L. in the vicinity of H. Arctowski Station (South Shetlands, Antarctica). The planned research will allow to evaluate role of the seed bank in the stability of the population, show the morphophysiological, biochemical, genetic and functional features of the species enabling it to become established in the Antarctic, and verify hypothesis regarding the source from which the species was brought into the Antarctic. In 2014/2015 ice-free parts of ASPA No 128 were surveyed for the presence of <i>P. annua</i> , and all found individuals were removed by hand tools. Soil samples for the analysis of soil seed bank were collected and all sites were mapped and marked for future monitoring. Similar actions were taken outside ASPA No 128. All sites with <i>P. annua</i> were mapped, and those growing between Arctowski Station and the boundary of ASPA were removed.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
Areas of Operation	
King George Island	

Operational Information – National Expeditions - Stations

Name:	“Arctowski” Polish Antarctic Station
Type:	Wintering
Location:	Site Name: Admiralty Bay Lat: 62° 09´ 41´´ S Long: 58° 28´ 10´´ W
Maximum Population:	35
Medical Facilities:	Doctor, basic medical facilities usually available
Remarks / Description:	“Arctowski” Station is located on a flat marine gravel terrace 6 m asl and ca 500 meters east of Point Thomas on the western shore of Admiralty Bay on King George Island. The area around the station is ice-free. The station consists of several buildings (living quarters, laboratories, warehouses, power plant, Tourist Information Centre, lighthouse). Fuel tanks (projected for 150 sqm) and the old main fuel tank (in renovation) are situated ca 700 m from the main building. The station is located within the Antarctic Specially Management Area No.1.

Name:	Demay
Type:	Refuge
Location:	Site Name: Paradise Cove Lat: 62°13´S Long: 58°26´30´´W
Accommodation Capacity:	4
Medical Facilities:	field medical kit available during summer for emergency use
Remarks / Description:	The refuge (wood hut) is situated on a flat marine gravel terrace in Paradise Cove between Demay Point and Uchatka Point, ca 10 km from Arctowski Station. The refuge can be reached both by Zodiac and by foot. It is located within the Antarctic Specially Protected Area No 128.

Name:	Italian Valley
Type:	Refuge
Location:	Site Name: Admiralty Bay Lat: 62° 09´ 41´´ S Long: 58° 28´ 10´´ W
Accommodation Capacity:	2
Medical Facilities:	field medical kit available during summer for emergency use
Remarks / Description:	The refuge (an Apple type hut) is situated on a flat marine terrace 10 m asl on the southern shore of Ezcurra Inlet (ca 5 km from Arctowski Station).

Name:	Lions Rump
Type:	Refuge
Location:	Site Name: King George Bay Lat: 62°06´S Long: 58°05´W
Accommodation Capacity:	4
Medical Facilities:	field medical kit available during summer for emergency use
Remarks / Description:	The refuge (wood hut) is situated on a flat marine gravel terrace on the western shore of King George Bay near Lions Rump (ca 35 km from Arctowski Station). The refuge can be reached only by Zodiac. It is located near the boundry of the Antarctic Specially Protected Area No 151.

Operational Information – National Expeditions - Vessels

Name:		Polar Pioneer				
Country of Registry:		Russian Federation				
Number of Voyages:		2				
Maximum Crew:		16				
Remarks:						
Depart. Date	Depart. Port	Arrival Date	Arrival Port	Areas of Operation		Purpose
23 Oct 2014	Mar del Plata, Argentina	03 Nov 2014	Ushuaia, Argentina	23 Oct 2014	South Shetland Islands	logistic and scientific support
01 Apr 2015	Ushuaia, Argentina	09 Apr 2015	Mar del Plata, Argentina	03 Apr 2015	South Shetland Islands	logistic and scientific support

Operational Information – National Expeditions - Aircraft

Type:	UAV
Category:	
Period From:	01/11/2014
Period To:	31/12/2014
Remarks:	Polish-Norwegian monitoring program using fixed-wing Unmanned Aerial Vehicles to collect geospatial environmental data was conducted in the Admiralty Bay (King George Island). Eight successful photogrammetry missions (total distance 1500 km; in 6,5 hours) were performed from 11th November to 6th December 2014, covering coastal zones of ASPA No 128, ASPA No 151, as well as Chabrier Rock and Shag Islands (Admiralty Bay, King George Island). Flight altitude: 300 – 500 m AGL, Take-offs and landings were done at Arctowski Station.

Operational Information – Non Governmental Expeditions - Vessel-Based Operations

Operator: **Name:** Artur Krystosik
Contact Address: 02-384 Warszawa ul. Włodarzewska 43h m 2, Poland
Email Address: a.krystosik@gmail.com
Website Address:

Name of Vessel: S/Y Isfuglen

Country of Registry: Poland

Number of Voyages: 2

Maximum Crew: 8

Maximum Passengers:

Remarks:

Voyages:

Depart. Date	Depart. Port	Arrival Date	Arrival Port	Expedition Leader
31 Dec 2014	Puerto Williams, Chile	18 Jan 2015	Puerto Williams, Chile	

Visited Sites: [View in Google Earth Map](#)

Site Name: Arctowski Station **Latitude:** 62°09'45''S **Longitude:** 58°28'W

Visit Date: 06/01/2015

This visit includes landing: Yes **Number of Visitors:** 8

Activities: Small Boat Landing, Station Visit

Site Name: Portal Point **Latitude:** 64°30'S **Longitude:** 61°46'W

Visit Date: 08/01/2015

This visit includes landing: Yes **Number of Visitors:** 9

Activities: Extended Walk, Small Boat Landing

Site Name: Waterboat Point/Gonzalez Videla Station **Latitude:** 64°49'00''S **Longitude:** 62°52'00''W

Visit Date: 09/01/2015

This visit includes landing: Yes **Number of Visitors:** 9

Activities: Small Boat Landing, Station Visit

Site Name: Enterprise Island **Latitude:** 64°32'S **Longitude:** 62°00'W

Visit Date: 09/01/2015

This visit includes landing: No

Activities: Anchoring Only

Site Name: Port Lockroy **Latitude:** 64°49'00''S **Longitude:** 63°30'00''W

Visit Date: 10/01/2015

This visit includes landing: Yes **Number of Visitors:** 9

Activities: Small Boat Landing, Station Visit

10 Feb 2015	Puerto Williams, Chile	16 Mar 2015	Grytviken, South Georgia
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Visited Sites: [View in Google Earth Map](#)

Site Name: Whalers Bay, Deception Island **Latitude:** 62°59'00''S **Longitude:** 60°39'00''W

Visit Date: 15/02/2015

This visit includes landing: Yes **Number of Visitors:** 7

Activities: Extended Walk, Small Boat Landing

Site Name: Arctowski Station **Latitude:** 62°09'45''S **Longitude:** 58°28'W

Visit Date: 16/02/2015

This visit includes landing: Yes **Number of Visitors:** 7

Activities: Extended Walk, Small Boat Landing, Station Visit

Site Name: Penguin Island **Latitude:** 62°06'S **Longitude:** 57°56'W

Visit Date: 17/02/2015

This visit includes landing: Yes **Number of Visitors:** 4

Activities: Extended Walk, Small Boat Landing

Site Name: Elephant Island **Latitude:** 61° 06 ' 00 ' ' S **Longitude:** 54° 52 ' 00 ' ' W

Visit Date: 18/02/2015

This visit includes landing: No **Number of Visitors:** 8

Operator:	Name:	Mariusz Koper			
	Contact Address:	Kościelna 8A, 05-510 Konstancin – Jeziorna, Poland			
	Email Address:	m.koper@katharsis2.pl			
	Website Address:				
Name of Vessel:	Katharsis II				
Country of Registry:	United Kingdom				
Number of Voyages:	1				
Maximum Crew:	9				
Maximum Passengers:					
Remarks:					
Voyages:					
	Depart. Date	Depart. Port	Arrival Date	Arrival Port	Expedition Leader
	17 Jan 2015	Hobart	02 Feb 2015	Bluff, New Zealand	
Visited Sites: View in Google Earth Map					
Site Name: Franklin Island Latitude: 76°05´S Longitude: 168°19´E					
Visit Date: 09/02/2015					
This visit includes landing: Yes Number of Visitors: 4					
Activities: Extended Walk, Small Boat Cruising, Small Boat Landing					

Operator:	Name:	Selma Expeditions Sp. z o.o.			
	Contact Address:	ul. Włociańska 19e/3, 51-514 Wrocław, Poland			
	Email Address:	info@selmaexpeditions.com			
	Website Address:	www.selmaexpeditions.com			
Name of Vessel:		Selma Expeditions			
Country of Registry:		Poland			
Number of Voyages:		1			
Maximum Crew:		12			
Maximum Passengers:					
Remarks:		1 cruise in Ross Sea, with 6 persons ascending Mt Erebus Itinerary: Hobart (10.01.2014), Baleny Islands (23.01.2015), Bay of Whales, Cape Crozier, Backdoor Bay Cape Royds (08.02.2015, 6 persons beginning ascent of Mt. Erebus), Cape Evans, Hut Point, Dellbridge Islands, Backdoor Bay Cape Royds (13.02.2015, Erebus group returning to yacht), Inexpressible Island, Hells Gate Moraine/Evance Cove, Northern Foothills, Cape Washington, Edmondson Point, Kay Islands, Coulman Island, Cape Wheatstone, Cape Roget, Downshire Cliffs, Duke of York Island, Cape Adare, Downshire Cliffs, Scott Island (28.02.2015), Peter I Island (20.03.2015), Charcot Island (22.03.2015), Vernadsky Station (24.03.2015), Mar del Plata (10.04.2015)			
Voyages:					
	Depart. Date	Depart. Port	Arrival Date	Arrival Port	Expedition Leader
	15 Jan 2015	Hobart, Australia	05 Apr 2015	Mar del Plata, Argentina	
Visited Sites: View in Google Earth Map					
Site Name: Bay of Whales Latitude: 78° 40' 00'' S Longitude: 164° 24' 00'' W					
Visit Date: 12/02/2015					
This visit includes landing: Yes Number of Visitors: 1					
Activities: Anchoring Only, Ice Landing, Small Boat Cruising					
<hr/>					
Site Name: Backdoor Bay Latitude: 77°34' S Longitude: 166°12' E					
Visit Date: 17/02/2015					
This visit includes landing: No					
Activities: Anchoring Only					
<hr/>					
Site Name: Cape Royds Camp Latitude: 77° 33' 00'' S Longitude: 166° 08' 00'' E					
Visit Date: 18/02/2015					
This visit includes landing: Yes Number of Visitors: 4					
Activities: Small Boat Cruising, Small Boat Landing					
<hr/>					
Site Name: Cape Royds Camp Latitude: 77° 33' 00'' S Longitude: 166° 08' 00'' E					
Visit Date: 19/02/2015					
This visit includes landing: Yes Number of Visitors: 3					
Activities: Small Boat Landing					
<hr/>					
Site Name: Cape Royds Camp Latitude: 77° 33' 00'' S Longitude: 166° 08' 00'' E					
Visit Date: 20/02/2015					
This visit includes landing: No					
Activities: Anchoring Only					
<hr/>					
Site Name: Cape Royds Camp Latitude: 77° 33' 00'' S Longitude: 166° 08' 00'' E					
Visit Date: 21/02/2015					
This visit includes landing: No					
Activities: Anchoring Only					
<hr/>					
Site Name: Cape Royds Camp Latitude: 77° 33' 00'' S Longitude: 166° 08' 00'' E					
Visit Date: 22/02/2015					
This visit includes landing: No					
Activities: Anchoring Only					
<hr/>					
Site Name: Cape Royds Camp Latitude: 77° 33' 00'' S Longitude: 166° 08' 00'' E					
Visit Date: 22/02/2015					
This visit includes landing: No					

Activities: Anchoring Only

Site Name: Cape Royds Camp **Latitude:** 77° 33 ' 00 ' ' S **Longitude:** 166° 08 ' 00 ' ' E
Visit Date: 23/02/2015
This visit includes landing: Yes **Number of Visitors:** 6
Activities: Small Boat Cruising, Small Boat Landing

Site Name: Cape Royds Camp **Latitude:** 77° 33 ' 00 ' ' S **Longitude:** 166° 08 ' 00 ' ' E
Visit Date: 24/02/2015
This visit includes landing: No
Activities: Anchoring Only

Site Name: Cape Royds Camp **Latitude:** 77° 33 ' 00 ' ' S **Longitude:** 166° 08 ' 00 ' ' E
Visit Date: 25/02/2015
This visit includes landing: No
Activities: Anchoring Only

Site Name: Peter I Øy **Latitude:** 68°48 ' S **Longitude:** 90°35 ' W
Visit Date: 17/03/2015
This visit includes landing: No
Activities: Anchoring Only

Operator:	Name:	Stowarzyszenie żeglarskie "Żeglujmy razem" Marek Grzywa			
	Contact Address:	62-300 Psary Małe, ul. Żytnia 1			
	Email Address:	kontakt@shackleton2014.pl			
	Website Address:				
Name of Vessel:	S/Y Polonus				
Country of Registry:	Poland				
Number of Voyages:	1				
Maximum Crew:	8				
Maximum Passengers:					
Remarks:	<p>On 22nd December 2014 Polish yacht S/Y Polonus was stranded in bad weather on the northern shore of King George Bay (King George Island, South Shetland Islands). Rescue action was coordinated by Chilean Navy. Yacht's crew and passengers were evacuated by Argentinian Navy ship A.R.A. Suboficial Castillo (Antarctic Patrol), and taken to Arctowski Station. Immediate and effective measures were taken to prevent any sort of pollution. As a result of an arrangement between yacht owner and the Captain of A.R.A. Suboficial Castillo, S/Y Polonus was rescued and taken to Arctowski Station, where it was pulled ashore and is awaiting further decisions.</p>				
Voyages:					
	Depart. Date	Depart. Port	Arrival Date	Arrival Port	Expedition Leader
	15 Dec 2014	Stanley, Falkland Islands	31 Dec 2014	Arctowski Station	
Visited Sites: View in Google Earth Map					
Site Name: Arctowski Station Latitude: 62°09´45´´S Longitude: 58°28´W					
Visit Date: 22/12/2014					
This visit includes landing: Yes Number of Visitors: 8					
Activities: Small Boat Landing, Station Visit					

Operational Information – Non Governmental Expeditions - Land-Based Operations

Expedition Name:	Selma Expeditions		
Method of transportation to/within/from Antarctica:	sail in/climb/sail out		
Activities:	Camping, Extended Walk, Ice Walk		
Number of Participants:	6		
Date begin:	18 Feb 2015		
Date end:	22 Feb 2015		
Number of personnel:			
Operator:	Name:	Selma Expeditions Sp. z o.o.	
	Contact Address:	ul. Włociańska 19e/3, 51-514 Wrocław, Poland	
	Email Address:	info@selmaexpeditions.com	
	Website Address:	www.selmaexpeditions.com	
Remarks:	private expedition to climb Mt Erebus (sailing by yacht to Backdoor Bay Cape Royds - 18.02.2015, 6 persons climbing Mt Erebus, returning to the same place on 22.02.2015, sailing out). Expedition reached the summit on 21.02.2015, 4 nights were spent camping on the slope of Mt. Erebus During the climb S/Y Selma was waiting in Backdoor Bay		
	Location of Activities		
Routes:			

Environmental Information - Environmental Impact Assessment (IEE/CEE List - Annex I)

Type:	IEE
Title:	Initial Environmental Evaluation of the tourist activity conducted in the Antarctic Peninsula by the yacht "Isfuglen"
Organization(s) responsible:	Władysław Mierzecki, Artur Krystosik
Activity:	Private tourist cruise with planned landings by the yacht "Isfuglen"
Topics:	- Non Governmental Expedition - Tourism
Locations:	Site name: Antarctic Peninsula
Period/length of the activity:	
Decision/Comment:	Proceed – No more than a minor or transitory impact

Type:	IEE
Title:	Initial Environmental Evaluation of the tourist activity conducted in the Antarctic Peninsula by the yacht "Katharsis II"
Organization(s) responsible:	Mariusz Koper
Activity:	Private tourist cruise with planned landings by the yacht "Katharsis II"
Topics:	- Non Governmental Expedition - Tourism
Locations:	Site name: Ross Sea
Period/length of the activity:	
Decision/Comment:	Proceed – No more than a minor or transitory impact

Type:	IEE
Title:	Initial Environmental Evaluation of the tourist activity conducted in the Antarctic Peninsula by the yacht "Polonus"
Organization(s) responsible:	Stowarzyszenie żeglarskie „Żeglujmy razem”, Marek Grzywa
Activity:	Private tourist cruise with planned landings by the yacht "Polonus"
Topics:	- Non Governmental Expedition - Tourism
Locations:	Site name: Antarctic Peninsula
Period/length of the activity:	
Decision/Comment:	Proceed – No more than a minor or transitory impact

Type:	IEE
Title:	Initial Environmental Evaluation of the tourist activity conducted in the Antarctic Peninsula by the yacht "Selma Expeditions"
Organization(s) responsible:	Selma Expeditions Sp. z o.o.
Activity:	Private tourist cruise with planned landings by the yacht "Selma Expeditions", ascent of Mt. Erebus
Topics:	- Non Governmental Expedition - Tourism
Locations:	Site name: Antarctic Peninsula Site name: Peter I Island Latitude: Latitude: Site name: Ross Sea
Period/length of the activity:	
Decision/Comment:	Proceed – No more than a minor or transitory impact

Type:	IEE
Title:	Project "MONICA" – A novel approach to monitoring the impact of climate change on Antarctic ecosystems
Organization(s) responsible:	Dept. Antarctic Biology IBB PAS
Activity:	monitoring program using fixed-wing Unmanned Aerial Vehicles (UAVs) to collect geospatial environmental data
Topics:	<ul style="list-style-type: none"> - Monitoring Program - National Antarctic Programme - Science
Locations:	Site name: King George Island Latitude: Latitude:
Period/length of the activity:	
Decision/Comment:	Proceed – No more than a minor or transitory impact

Environmental Information - Conservation of Fauna and Flora

Permit Number:	2/2014
Permit Period:	Date Begin: 01 Nov 2014 Date End: 31 Mar 2015
Species:	Pygoscelis adeliae, Pygoscelis papua
Location:	Site Name: Lions Rump Lat: 62°08´S Long: 58°07´W
Action:	Taking
Taking:	Capture
Amount:	400
Purpose:	census and observations
Removal or Disposal:	No
Remarks:	weighting of eggs of Pygoscelis adeliae (200 eggs, 2 eggs per each of 100 nests) and Pygoscelis papua (200 eggs, 2 eggs per each of 100 nests)
Event or Project Name/Number:	Ecological monitoring – long-term bird and pinniped observation programme on King Gorge Island

Permit Number:	1/2014
Permit Period:	Date Begin: 01 Nov 2014 Date End: 31 Mar 2015
Species:	Pygoscelis adeliae, Pygoscelis papua
Location:	Site Name: Lions Rump Lat: 62°08´S Long: 58°07´W
Action:	Taking
Taking:	Capture
Amount:	400
Purpose:	census and observation
Removal or Disposal:	No
Remarks:	weighting of fledglings of Pygoscelis adeliae (200 individuals) and Pygoscelis papua (200 individuals)
Event or Project Name/Number:	Ecological monitoring – long-term bird and pinniped observation programme on King Gorge Island

Environmental Information - Area Protection and Management (Permit, Visit and Activities)

ASPA / ASMA:	Type: ASPA Number: 128 Name: Western shores of Admiralty Bay, King George Island, South Shetland Islands (More Details)
Permit Number:	3/2014
Number of people:	Permitted to enter: 4 That actually entered: 4
Permit Period:	From: 01 Nov 2014 To: 01 Nov 2015
Purpose:	environmental monitoring, birds & pinnipeds census and observations, monitoring the potential impact of UAVs on wildlife
Summary of activities:	pinniped census every 10 days, penguins' and other birds' nests census once during breeding season, recording of vagrant birds, monitoring and recording penguin behavior during UAV flights
Event or project name/number:	Ecological monitoring – long-term bird and pinniped observations programme on King-George Island

ASPA / ASMA:	Type: ASPA Number: 128 Name: Western shores of Admiralty Bay, King George Island, South Shetland Islands (More Details)
Permit Number:	4/2014
Number of people:	Permitted to enter: 3 That actually entered: 3
Permit Period:	From: 01 Nov 2014 To: 01 Nov 2015
Purpose:	logistical support
Summary of activities:	"Demay" refuge maintenance and resupply 4 visits ca 5 hrs each
Event or project name/number:	

ASPA / ASMA:	Type: ASPA Number: 128 Name: Western shores of Admiralty Bay, King George Island, South Shetland Islands (More Details)
Permit Number:	5/2014
Number of people:	Permitted to enter: 5 That actually entered: 4
Permit Period:	From: 01 Nov 2014 To: 31 Mar 2015
Purpose:	fitosociological studies, invasive species survey, Poa annua eradication
Summary of activities:	surveying ice-free area for the presence of non-native species, mapping and removing all found tussocks of invasive species Poa annua, collecting soil samples for soil seed bank analysis
Event or project name/number:	The causes, course and consequences of the expansion of Poa annua L. in Western Antarctica, a multi-

ASPA / ASMA:	Type: ASPA Number: 128 Name: Western shores of Admiralty Bay, King George Island, South Shetland Islands (More Details)
Permit Number:	6/2014
Number of people:	Permitted to enter: 7 That actually entered: 7
Permit Period:	From: 01 Nov 2014 To: 31 Dec 2014
Purpose:	technical support for flights by UAVs
Summary of activities:	one visit – familiarization with the terrain layout
Event or project name/number:	MONICA – A novel approach to monitoring the impact of climate change on Antarctic ecosystems

ASPA / ASMA:	Type: ASPA Number: 128 Name: Western shores of Admiralty Bay, King George Island, South Shetland Islands (More Details)
Permit Number:	7/2014
Number of people:	Permitted to enter: 2 That actually entered: 2
Permit Period:	From: 01 Nov 2014 To: 25 Dec 2014
Purpose:	Education and outreach – documentary on scientific programs by scientists from Arctowski Station
Summary of activities:	one 3-day stay at „Demay” refuge (recording monitoring research on elephant seals’colony), 12 short visits (recording monitoring research on penguin’s colonies, and skua studies)
Event or project name/number:	Documentary “Antarctica. When the heat comes”

ASPA / ASMA:	Type: ASPA Number: 128 Name: Western shores of Admiralty Bay, King George Island, South Shetland Islands (More Details)
Permit Number:	8/2014
Number of people:	Permitted to enter: 1 That actually entered: 1
Permit Period:	From: 01 Nov 2014 To: 31 Mar 2015
Purpose:	chemical, hydrological and geological studies on the forefront of Ecology Glacier
Summary of activities:	collecting water samples from streams at Ecology Glacier
Event or project name/number:	Multidisciplinary monitoring program in Admiralty Bay (Subarea 48.1), King George Island, South Shet

ASPA / ASMA:	Type: ASPA Number: 151 Name: Lions Rump, King George Island, South Shetland Islands (More Details)
Permit Number:	1/2014
Number of people:	Permitted to enter: 3 That actually entered: 2
Permit Period:	From: 01 Nov 2014 To: 31 Mar 2015
Purpose:	environmental monitoring, birds & pinnipeds census and observations
Summary of activities:	pinniped census every 10 days, penguins’ and other birds’ nests census once during breeding season, breeding success (chick counts) once during breeding season, fledglings weighting once during the season. Recording of vagrant birds, birds breeding chronology, whale observations each day during the whole season
Event or project name/number:	Ecological monitoring – long-term bird and pinniped observations programme on King-George Island

ASPA / ASMA:	Type: ASPA Number: 151 Name: Lions Rump, King George Island, South Shetland Islands (More Details)
Permit Number:	2/2014
Number of people:	Permitted to enter: 2 That actually entered: 0
Permit Period:	From: 01 Nov 2014 To: 25 Dec 2014
Purpose:	Education and outreach – documentary on scientific programs by scientists from Arctowski Station
Summary of activities:	
Event or project name/number:	Documentary “Antarctica. When the heat comes”

ASPAs / ASMA:	Type: ASPA Number: 151 Name: Lions Rump, King George Island, South Shetland Islands (More Details)
Permit Number:	9/2014
Number of people:	Permitted to enter: 1 That actually entered: 0
Permit Period:	From: 01 Nov 2014 To: 31 Mar 2015
Purpose:	familiarization with management of ASPA No 151 Lions Rump
Summary of activities:	
Event or project name/number:	

ASPAs / ASMA:	Type: ASPA Number: 155 Name: Cape Evans, Ross Island (More Details)
Permit Number:	10/2014
Number of people:	Permitted to enter: 11 That actually entered: 0
Permit Period:	From: 20 Jan 2015 To: 15 Mar 2015
Purpose:	Touristic visiting historic monuments from the Heroic Age of Antarctic exploration, HSM No 16 and HSM 17
Summary of activities:	
Event or project name/number:	Selma Expeditions

ASPAs / ASMA:	Type: ASPA Number: 155 Name: Cape Evans, Ross Island (More Details)
Permit Number:	14/2014
Number of people:	Permitted to enter: 9 That actually entered: 0
Permit Period:	From: 18 Jan 2015 To: 23 Feb 2015
Purpose:	touristic visiting historic monuments, HSM No 16 and HSM 17
Summary of activities:	visiting historic monuments, HSM No 16 and HSM 17
Event or project name/number:	Katharsis II

ASPAs / ASMA:	Type: ASPA Number: 157 Name: Backdoor Bay, Cape Royds, Ross Island (More Details)
Permit Number:	11/2014
Number of people:	Permitted to enter: 11 That actually entered: 6
Permit Period:	From: 20 Jan 2015 To: 15 Mar 2015
Purpose:	touristic visiting historic monuments, HSM No 15
Summary of activities:	visiting historic monuments, HSM No 15 2 hrs visit by 6 persons
Event or project name/number:	Selma Expeditions

ASPA / ASMA: **Type:** ASPA **Number:** 157 **Name:** Backdoor Bay, Cape Royds, Ross Island ([More Details](#))

Permit Number: 15/2014

Number of people: **Permitted to enter:** 9 **That actually entered:** 0

Permit Period: **From:** 18 Jan 2015 **To:** 23 Feb 2015

Purpose: touristic visiting historic monuments, HSM No 15

Summary of activities:

Event or project name/number: Katharsis II

ASPA / ASMA: **Type:** ASPA **Number:** 158 **Name:** Hut Point, Ross Island ([More Details](#))

Permit Number: 12/2014

Number of people: **Permitted to enter:** 11 **That actually entered:** 0

Permit Period: **From:** 20 Jan 2015 **To:** 15 Mar 2015

Purpose: touristic visiting historic monuments, HSM No 18 and HSM No 19

Summary of activities:

Event or project name/number: Selma Expeditions

ASPA / ASMA: **Type:** ASPA **Number:** 158 **Name:** Hut Point, Ross Island ([More Details](#))

Permit Number: 16/2014

Number of people: **Permitted to enter:** 9 **That actually entered:** 0

Permit Period: **From:** 18 Jan 2015 **To:** 23 Feb 2015

Purpose: touristic visiting historic monuments, HSM No 18 and HSM No 19

Summary of activities:

Event or project name/number: Katharsis II

ASPA / ASMA: **Type:** ASPA **Number:** 159 **Name:** Cape Adare, Borchgrevink Coast ([More Details](#))

Permit Number: 13/2014

Number of people: **Permitted to enter:** 11 **That actually entered:** 0

Permit Period: **From:** 20 Jan 2015 **To:** 15 Mar 2015

Purpose: touristic visiting historic monuments, HSM No 22

Summary of activities:

Event or project name/number: Selma Expeditions

ASPA / ASMA:	Type: ASPA Number: 159 Name: Cape Adare, Borchgrevink Coast (More Details)
Permit Number:	17/2014
Number of people:	Permitted to enter: 9 That actually entered: 0
Permit Period:	From: 18 Jan 2015 To: 23 Feb 2015
Purpose:	touristic visiting historic monuments, HSM No 22
Summary of activities:	
Event or project name/number:	Katharsis II

Environmental Information - Area Protection and Management (Change or Damage)

No change or damage was observed during this reporting period.

Other Information - Relevant National Legislation

No new information have been provided during the reported period.