



Antarctic Treaty

Electronic Information Exchange System

Party: Italy
2014/2015 Annual Information

Scientific Information - Forward Plans

Science Plan/Program/Project:

The activities of the 2014-2015 Expedition were in line with the document "Programma Esecutivo Annuale 2014". Serious difficulty had to be overcome due to reduced funds and delay in funding. Nevertheless 35 projects carried out their scientific activities in the fields of Life Sciences, Earth Sciences, Atmospheric Sciences and Technology.

Planned Operating Period:

From To

Organisation:

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Contact Point:

Details/Description:

Link (URL):

<http://hubmiur.pubblica.istruzione.it/web/ricerca/PNRA/programmazione>

Additional Information:

Discipline:

[Areas of Activity](#)

Scientific Information - Science Activities in Previous Year

Project Name/Number:	PNRA 2009/A3.01
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Ermanno Amata, Istituto Nazionale di Astrofisica -INAF, Roma.
Main Activity/ Remarks:	Bipolar study of auroral phenomena with Super DARN and optical observations.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Concordia Station	

Project Name/Number:	PNRA 2009/B.01
Discipline:	Permanent Observatories
Principal Investigator:	Lili Caffarella, Istituto Nazionale di Geofisica e Vulcanologia, Roma.
Main Activity/ Remarks:	Geomagnetic and electromagnetic observations in Antarctica.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2009/B.04
Discipline:	Technologies
Principal Investigator:	Christian Lanconelli, ISAC, C.N.R., Bologna.
Main Activity/ Remarks:	Accurate surface fluxes measurements of solar and thermal radiation at the plateau station Concordia (BSRN site).
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Concordia Station	

Project Name/Number:	PNRA 2009/B.05
Discipline:	Permanent observatories
Principal Investigator:	Andrea Morelli, Istituto Nazionale di Geofisica e Vulcanologia, Bologna.
Main Activity/ Remarks:	Permanent seismic observatories in Antarctica.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation

Project Name/Number:	PNRA 2009/B.05
Discipline:	Permanent Observatories
Principal Investigator:	Andrea Morelli, Istituto Nazionale di Geofisica e Vulcanologia, Bologna.
Main Activity/ Remarks:	Permanent seismic observatories in Antarctica.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2009/B.06
Discipline:	Permanent Observatories
Principal Investigator:	Paolo Grigioni, UTMEA-TER, ENEA Casaccia, Roma.
Main Activity/ Remarks:	Antarctic Meteo-Climatological Observatory.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2009/B.06
Discipline:	Permanent Observatories
Principal Investigator:	Paolo Grigioni, UTMEA-TER, ENEA Casaccia, Roma.
Main Activity/ Remarks:	Antarctic Meteo-Climatological Observatory.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Concordia Station	

Project Name/Number:	PNRA 2009/B.07
Discipline:	Permanent Observatories
Principal Investigator:	Milton Plasencia, Istituto Nazionale di Oceanografia e Geofisica Sperimentale, Sgonico (TS).
Main Activity/ Remarks:	Broad band seismology observatories net in the Scotia Sea region.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Antarctic Peninsula	

Project Name/Number:	PNRA 2009/B.09
Discipline:	Permanent Observatories
Principal Investigator:	Giancarlo Spezie, Università "Parthenope" di Napoli, Napoli.
Main Activity/ Remarks:	Marine observatory in the Ross Sea.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Ross Sea

Project Name/Number:	PNRA 2013/AC3.01
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Giovanni Bianchini, Istituto Nazionale di Ottica, C.N.R., Firenze.
Main Activity/ Remarks:	Concordia Multi-Process Atmospheric Studies (CoMPASs).
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Concordia Station

Project Name/Number:	PNRA 2013/AC3.02
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Maurizio Busso, Dip. di Fisica, Università di Perugia
Main Activity/ Remarks:	The International Astrophysical Observatory ITM at Concordia. The First Scientific Activities.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Concordia Station

Project Name/Number:	PNRA 2013/AC3.03
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Warren Cairns, Istituto per la Dinamica dei Processi Ambientali , C.N.R., Venezia.
Main Activity/ Remarks:	Mercury cycling and sequestration at Dome Concordia.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Concordia Station

Project Name/Number:	PNRA 2013/AC3.04
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Marco De Petris, Dip. di Fisica, Università "La Sapienza" di Roma.
Main Activity/ Remarks:	CASPER: an atmosphere monitor at millimetre/submillimetre wavelengths for supporting astrophysical Antarctic observations.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Concordia Station	

Project Name/Number:	PNRA 2013/AC3.05
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Massimo Del Guasta, Ist. di Fisica Applicata "Nello Carrara", C.N.R., Firenze.
Main Activity/ Remarks:	PREcipitation RETrieval at Concordia (PRE-REC).
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Concordia Station	

Project Name/Number:	PNRA 2013/AC3.08
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Maria Federica Marcucci, Istituto Nazionale di Astrofisica, Roma.
Main Activity/ Remarks:	Bipolar study of auroral phenomena with SuperDARN and optical and magnetic observations.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Concordia Station	

Project Name/Number:	PNRA 2013/AC3.08
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Maria Federica Marcucci, Istituto Nazionale di Astrofisica, Roma.
Main Activity/ Remarks:	Bipolar study of auroral phenomena with SuperDARN and optical and magnetic observations.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AN2.01
Discipline:	Earth Sciences
Principal Investigator:	Ester Colizza, Dip. di Matematica e Geoscienze, Università di Firenze.
Main Activity/ Remarks:	ROSSLOPE II: Past and present sedimentary dynamic in the ROSS Sea: a multidisciplinary approach to study the continental SLOPE.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Ross Sea

Project Name/Number:	PNRA 2013/AZ1.01
Discipline:	Life Sciences
Principal Investigator:	Giuliana Allegrucci, Dip. di Scienze della Terra, Università di Genova.
Main Activity/ Remarks:	Adaptations of a top predator in the Antarctic: population genetic structure and tropich niche of the Weddell seals in Terra Nova Bay.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Terra Nova Bay

Project Name/Number:	PNRA 2013/AZ1.03
Discipline:	Life Sciences
Principal Investigator:	Mariachiara Chiantore, Dip. di Scienze della Terra, Università di Genova.
Main Activity/ Remarks:	ACidification effects on Antarctic Benthos (ACAB).
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Terra Nova Bay

Project Name/Number:	PNRA 2013/AZ1.05
Discipline:	Life Sciences
Principal Investigator:	Mauro Guglielmin, Dip. di Scienze Teoriche e Applicate, Università dell'Insubria.
Main Activity/ Remarks:	Permafrost Ecology in Victoria Land: past, present and future evolution in a Climate Change frame.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Terra Nova Bay

Project Name/Number:	PNRA 2013/AZ1.08
Discipline:	Life Sciences
Principal Investigator:	Giancarlo Lauriano, Istituto Superiore per la Protezione e la Ricerca Ambientale - ISPRA Roma.
Main Activity/ Remarks:	Trophic role and killer whale (Orcinus orca) predatory influence on Terra Nova Bay eco system.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Terra Nova Bay

Project Name/Number:	PNRA 2013/AZ1.18
Discipline:	Life Sciences
Principal Investigator:	Marino Vacchi, Istituto di Scienze Marine - ISMAR, C.N.R.,Genova.
Main Activity/ Remarks:	RISE – Integrate Research on AntarctIc Silverfish Ecology in the Ross sea.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Ross Sea

Project Name/Number:	PNRA 2013/AZ1.18
Discipline:	Life Sciences
Principal Investigator:	Marino Vacchi, Istituto di Scienze Marine, C.N.R., Genova.
Main Activity/ Remarks:	RISE – Integrate Research on AntarctIc Silverfish Ecology in the Ross sea.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Silverfish Bay

Project Name/Number:	PNRA 2013/AZ1.21
Discipline:	Life Sciences
Principal Investigator:	Cristina Munari, Dip. di Scienze della vita e biotecnologie, Università di Ferrara.
Main Activity/ Remarks:	A molecular approach to study biodiversity and cryptic species of benthic metazoan in the Ross Sea.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
	Terra Nova Bay

Project Name/Number:	PNRA 2013/AZ1.22
Discipline:	Life Sciences
Principal Investigator:	Silvia Olmastroni, Dip. di Scienze Fisiche, della Terra e dell'Ambiente, Università di Siena.
Main Activity/ Remarks:	Conservation of a polar mesopredator species susceptible to ecosystem change.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ2.02
Discipline:	Earth Sciences
Principal Investigator:	Giovanni Capponi, Dip. di Scienze della Terra dell'Ambiente e della Vita, Università di Genova.
Main Activity/ Remarks:	Tectonic inheritance in northern Victoria Land: the role of the paleozoic discontinuities in the recent geodynamics and influence in the set up of the Antarctic glaciation.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ2.03
Discipline:	Earth Sciences
Principal Investigator:	Prof. Alessandro Capra, Dip. di Ingegneria "Enzo Ferrari" - Università di Modena e Reggio Emilia
Main Activity/ Remarks:	Geodetic and geophysical survey for geodynamical modelling of Northern Victoria Land.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ2.04
Discipline:	Earth Sciences
Principal Investigator:	Luigi Folco, Dip. di Scienze della Terra, Università di Pisa.
Main Activity/ Remarks:	Antarctic meteorites.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ2.05
Discipline:	Earth Sciences
Principal Investigator:	Roger Fuoco,Dip. di Chimica e Chimica Industriale, Università di Pisa.
Main Activity/ Remarks:	Evaluation and modelling of environmental impact related to chemical substances and pollutants released from massive snow/ice melting in Antarctica.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ2.07
Discipline:	Easrth Sciences
Principal Investigator:	Federico Rossetti, Dip. di Scienze, Sezione di Geologia - Università "Tre" di Roma.
Main Activity/ Remarks:	Feedbacks between neotectonics, magmatism, climate and mantle dynamics in the Ross Sea region.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ2.08
Discipline:	Earth Sciences
Principal Investigator:	Franco Maria Talarico, Dip. di Scienze Fisiche, della Terra e dell'Ambiente, Università di Siena.
Main Activity/ Remarks:	Climate and tectonic forcings on sediment dispersal in the West Antarctic Rift System of South Victoria Land: a source-to-sink, multi-proxy provenance study.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ3.02
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Fabrizio Ravegnani, Istituto di Scienze dell'Atmosfera e del Clima- ISAC, CNR Roma.
Main Activity/ Remarks:	TANGO - Tropospheric hAlogeNs Ground-based & satellite Observations.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/AZ3.04
Discipline:	Space and Atmospheric Sciences
Principal Investigator:	Giuseppe Scarponi, Dipartimento di Scienze della Vita e dell'Ambiente, Università Politecnica delle Marche, Ancona.
Main Activity/ Remarks:	Air-snow exchanges and relationships for trace elements and organic compounds of climatic interest.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
Terra Nova Bay	

Project Name/Number:	PNRA 2013/C1.01
Discipline:	Global change
Principal Investigator:	Nicoletta Cannone, Dip. di Scienze teoriche ed Applicate, Università dell'Insubria, Como.
Main Activity/ Remarks:	Climate Change impacts on Vegetation and Permafrost, their interactions, feedbacks and significance for Biodiversity in maritime Antarctic.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
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Project Name/Number:	PNRA 2013/C1.07
Discipline:	Life Sciences
Principal Investigator:	Mario La Mesa,Istituto di Scienze Marine - ISMAR, CNR Ancona.
Main Activity/ Remarks:	Early life history traits and reproductive strategies of notothenioids in the Southern Scotia Arc.
Link (URL):	
Additional Information:	
Operating Period:	From: To:
	Areas of Operation
South Shetland Islands	

Operational Information – National Expeditions - Stations

Name:	Concordia Station
Type:	Wintering
Location:	Site Name: Dome C Lat: 75° 06´ 00´´ S Long: 123° 20´ 00´´ E
Maximum Population:	13
Medical Facilities:	Surgery, x rays, dentistry, laboratory, pharmacy. One physician during the winter and two physicians and one nurse during the summer.
Remarks / Description:	Situated on the Antarctic Plateau at 3233 m a.s.l. It is made of two polygonal buildings (the quiet and the noisy towers) joined by a sheltered passage. The construction started in 1999, and was completed in 2004. The Station is jointly operated by France and Italy. 6 of 13 people are Italian.

Name:	Cap André Prud'homme
Type:	Summer
Location:	Site Name: Adélie, Terre Lat: 66° 41´ 00´´ S Long: 139° 54´ 00´´ E
Maximum Population:	10
Medical Facilities:	No medical facilities on site, but 1 hospital and 1 physician at Dumont d'Urville Station, 5 km away, with helicopter support.
Remarks / Description:	The Station is operated jointly by France and Italy. It is the starting point of the ground traverses for transport of cargo and fuel to the Concordia Station (on the Antarctic plateau). 3 of 10 people are Italian.
Operating Period:	From: October To: February

Name:	Concordia Summer Station
Type:	Summer
Location:	Site Name: Dome C Lat: 75° 06´ 00´´ S Long: 123° 20´ 00´´ E
Maximum Population:	89
Medical Facilities:	At Concordia Station: full equipped infirmary, operating theater, radiography, pathology laboratory, dentistry, pharmacy, 2 physicians.
Remarks / Description:	The whole Station is made up of the winter buildings and a Camp situated at 450 meters on the Antarctic Plateau at 3233 m a.s.l.. The Camp was originally created as support for the building of Concordia Station and for scientific activities, in particular for the EPICA Project. The Station is jointly operated by France and Italy. 44 of 89 people are Italian.
Operating Period:	From: November To: February

Name:	Mario Zucchelli Station
Type:	Summer
Location:	Site Name: Terra Nova Bay Lat: 74° 41´ 42´´ S Long: 164° 07´ 23´´ E
Maximum Population:	138
Medical Facilities:	Surgery, X rays, dentistry, pharmacy. Two physicians and one nurse.
Remarks / Description:	Situated along the coast of the Northern Foothills, Northeast of Gerlache Inlet, Victoria Land. The maximum populatio of 138 refers to Italian people present during the Austral summer 2014-2015.
Operating Period:	From: November To: February

Operational Information – National Expeditions - Aircraft

Type:	Basler BT-67
Category:	
Period From:	25/01/2015
Period To:	07/02/2015
Remarks:	Personnel transportation:Concordia Station-Dumont d'Urville- McMurdo-Casey Station. On seasonal charter.

Type:	Basler BT-67
Category:	
Period From:	23/10/2014
Period To:	20/11/2014
Remarks:	Personnel transportation:Concordia Station-Dumont d'Urville- McMurdo-Casey Station. On seasonal charter.

Type:	Ecureuil AS-350/B2
Category:	
Period From:	16/10/2014
Period To:	08/02/2015
Remarks:	Four helicopters will be present at Mario Zucchelli Station for field camps support flights in a range of 180nm. On seasonal charter.

Type:	Twin Otter DHC-6/300
Category:	
Period From:	10/11/2014
Period To:	10/02/2015
Remarks:	Personnel transportation: Mario Zucchelli Station-Concordia Station- Dumont d'Urville Station and Mario Zucchelli Station-McMurdo Station round trips. On seasonal charter.

Operational Information – National Expeditions - Military

Military personnel in expeditions:	All are NATO codes. At Mario Zucchelli Station: Air Force: 1 OF5, 3 OF4, 1 OF1, 1 OR9. Army: 1 OF5, 1 OF4, 1 OF2, 1 OF1, 1 OR9, 1 OR4. Navy: 1 OF2, 3 OR9, 1OR8, 1 OR6. At Concordia Station: Army: 2 OR6.
Number and Type of Armaments possessed by personnel:	Nil
Number and Type of Armaments of ships and aircraft:	Nil
Information and Location of Military Equipment in the AT Area:	Nil

Operational Information – Non Governmental Expeditions - Vessel-Based Operations

No new information have been provided during the reported period.

Operational Information – Non Governmental Expeditions - Land-Based Operations

No new information have been provided during the reported period.

Environmental Information - Conservation of Fauna and Flora

A [PDF document](#) has been uploaded to provided this information.

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

ASPA / ASMA:	Type: ASPA Number: 106 Name: Cape Hallett, Northern Victoria Land, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 4 That actually entered:
Permit Period:	From: 14 Nov 2014 To: 10 Dec 2014
Purpose:	Scientific study pertaining to the activity, referring to the PNRA Research: Collection of volcanic rock specimens in the framework of the PNRA project 2013/AZ2.07 "Feedbacks between neotectonics, magmatism, climate and mantle dynamics in the Ross Sea region".
Summary of activities:	
Event or project name/number:	Project PNRA 2013/AZ2.07

ASPA / ASMA:	Type: ASPA Number: 159 Name: Cape Adare, Borchgrevink Coast (More Details)
Permit Number:	
Number of people:	Permitted to enter: 4 That actually entered:
Permit Period:	From: 14 Nov 2014 To: 10 Dec 2014
Purpose:	Scientific study pertaining to the activity, referring to the PNRA Research: Collection of volcanic rock specimens in the framework of the PNRA project 2013/AZ2.07 "Feedbacks between neotectonics, magmatism, climate and mantle dynamics in the Ross Sea region"
Summary of activities:	
Event or project name/number:	Project PNRA 2013/AZ2.07

ASPA / ASMA:	Type: ASPA Number: 161 Name: Terra Nova Bay, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 3 That actually entered:
Permit Period:	From: 29 Oct 2014 To: 24 Feb 2015
Purpose:	Scientific study pertaining to the activity, referring to the PNRA Research Project PNRA AZ1.08
Summary of activities:	
Event or project name/number:	Project PNRA AZ1.08

ASPA / ASMA:	Type: ASPA Number: 161 Name: Terra Nova Bay, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 3 That actually entered:
Permit Period:	From: 01 Dec 2014 To: 20 Feb 2015
Purpose:	To provide specimens for scientific study pertaining to project ACAB (Acidification effects on Antarctic Benthos) referring to the PNRA Research Project 2013/AZ1.03
Summary of activities:	
Event or project name/number:	Project PNRA 2013/AZ1.03

ASPA / ASMA:	Type: ASPA Number: 161 Name: Terra Nova Bay, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 4 That actually entered:
Permit Period:	From: 01 Jan 2015 To: 30 Mar 2015
Purpose:	Scientific study pertaining to the activity, referring to the PNRA Research Project 2013/AZ1.21: analysis of macrofauna and meiofauna diversity along a bathymetric gradient, at stations characterized by low and high organic load.
Summary of activities:	
Event or project name/number:	Project PNRA 2013/AZ1.21

ASPA / ASMA:	Type: ASPA Number: 165 Name: Edmonson Point, Wood Bay, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 3 That actually entered:
Permit Period:	From: 20 Oct 2014 To: 20 Feb 2015
Purpose:	Maintenance of the automatic station PENGUIN of the Antarctic Meteo-Climatological Observatory.
Summary of activities:	
Event or project name/number:	Project PNRA 2009/B.06

ASPA / ASMA:	Type: ASPA Number: 165 Name: Edmonson Point, Wood Bay, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 3 That actually entered:
Permit Period:	From: 29 Oct 2014 To: 24 Feb 2015
Purpose:	Scientific study pertaining to the activity, referring to the PNRA Research Project PNRA AZ1.08
Summary of activities:	
Event or project name/number:	Project PNRA AZ1.08

ASPA / ASMA:	Type: ASPA Number: 173 Name: Cape Washington and Silverfish Bay, Terra Nova Bay, Ross Sea (More Details)
Permit Number:	
Number of people:	Permitted to enter: 1 That actually entered:
Permit Period:	From: 30 Oct 2014 To: 20 Nov 2014
Purpose:	Scientific study pertaining to the activity, referring to the PNRA Research Project PNRA AZ1.08
Summary of activities:	
Event or project name/number:	Project PNRA 2013/AZ1.18

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.