

MEMBER COUNTRY: ARGENTINA

National Report to SCAR for year:

2013 – 2014

Activity	Contact Name	Address	Telephone	Fax	Email	web site
<b>National SCAR Committee</b>						
<b>SCAR Delegates</b>						
1) Delegate	Dr. Néstor Coria	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:ncoria@dna.gov.ar">ncoria@dna.gov.ar</a>	<a href="http://www.dna.gov.ar">www.dna.gov.ar</a>
2) Alternate Delegate	Dr. Viviana Alder	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:viviana_alder@yahoo.com">viviana_alder@yahoo.com</a>	
<b>Standing Scientific Groups</b>						
<b>Life Sciences</b>						
1)	Dr. Néstor R. Coria	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:ncoria@dna.gov.ar">ncoria@dna.gov.ar</a>	
2)	Dr. Mariano A. Memolli	Dirección Nacional del Antártico (D.N.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:dna@dna.gov.ar">dna@dna.gov.ar</a>	
3)						
4)						
<b>Geosciences</b>						
1)	Dr. Rodolfo A. del Valle	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:delvalle@dna.gov.ar">delvalle@dna.gov.ar</a>	
2)	Dr. Martha E. Ghidella	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:mghidella@dna.gov.ar">mghidella@dna.gov.ar</a>	
3)	Eng. Federico Mayer	Servicio de Hidrografía Naval (SIHN), Avda. Montes de Oca 2124 (C1270ABV) Buenos Aires	54-11-4-301-9809	54-11-4-301-3883	<a href="mailto:fmayer@speedy.com.ar">fmayer@speedy.com.ar</a>	
4)						
<b>Physical Sciences</b>						
1)						
2)						
3)						
4)						

<b>Activity</b>	<b>Contact Name</b>	<b>Address</b>	<b>Telephone</b>	<b>Fax</b>	<b>Email</b>	<b>web site</b>
<b>Scientific Research Program</b>						
1) AAA						
1) AntEco						
1) AnT-ERA						
1) AntClim21						
1) PAIS						
1) SERCE						
<b>Activity</b>	<b>Contact Name</b>	<b>Address</b>	<b>Telephone</b>	<b>Fax</b>	<b>Email</b>	<b>web site</b>
<b>ACTION GROUPS</b>						
1)						
2)						
3)						
4)						
insert others as needed						

Activity	Contact Name	Address	Telephone	Fax	Email	web site
<b>EXPERT GROUPS</b>						
<b>1) Geospatial Information Geodesy (GIANT)</b>	Mr. Andrés Zakrajsek	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:afz@dna.gov.ar">afz@dna.gov.ar</a>	
<b>2) King George Island GIS Project (KGIS)</b>	Dr. Rodolfo A. del Valle	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:delvalle@dna.gov.ar">delvalle@dna.gov.ar</a>	
<b>3) Geospatial Information Geographic Information</b>	Mr. Andrés Zakrajsek	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:afz@dna.gov.ar">afz@dna.gov.ar</a>	
<b>4) Permafrost and Periglacial Environments (PPE)</b>	Dr. Yevgueniy Yermolin	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:euermolin@dna.gov.ar">euermolin@dna.gov.ar</a> <a href="mailto:ivgen52@yahoo.com">ivgen52@yahoo.com</a>	
<b>5) Antarctic Digital Magnetic Anomaly Project (ADMAP)</b>	Dr. Martha E. Ghidella	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:mghidella@dna.gov.ar">mghidella@dna.gov.ar</a>	
<b>6) Antarctic Neotectonics (ANTEC)</b>	Dr. Martha E. Ghidella	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:mghidella@dna.gov.ar">mghidella@dna.gov.ar</a>	
<b>insert others as needed</b>						
<b>SCADM</b>						
<b>1)</b>	Lic. Diego R. Gómez Izquierdo	Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:diegogi@dna.gov.ar">diegogi@dna.gov.ar</a>	
<b>NATIONAL ANTARCTIC DATA CENTRE</b>						
<b>Argentina Antarctic Data Center</b>		Instituto Antártico Argentino (I.A.A.), Balcarce 290 (C1064AAF) Buenos Aires	54-11-4-331-2900	54-11-4-331-2903	<a href="mailto:cda@dna.gov.ar">cda@dna.gov.ar</a>	
<b>SCAR DATABASE</b>						
insert name of database for which your country has responsibility						
<b>Argentina Antarctic Data Center</b>						

**A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS FOLLOWS:**

## National Programs/Projects by Standing Scientific Group 2013-2014

### Life Sciences

<i>Subject</i>	<i>Investigation</i>	<i>Locality</i>	<i>Duration</i>	<i>Principal Investigator</i>	<i>Address</i>
Ichthyology	Ichthyology: Monitoring and general ecology of Antarctic fishes in Scotia Arc, applied to resources conservation.	Carlini (ex Jubany) Base	2011 - 15	Dr. Esteban Barrera Oro	<a href="mailto:ebarreraoro@dna.gov.ar">ebarreraoro@dna.gov.ar</a>
Antarctic Cormoran	Study of reproductive and alimentary aspects of the Antarctic ( <i>Phalacrocorax Bransfieldensis</i> ) and South Georgia ( <i>P. Georgianus</i> ) shags: identification of utility parameters to monitor environmental changes in littoral Antarctic ecosystems.	Nelson island, Laurie island, Antarctic peninsula	2011 - 15	Dr. Ricardo Casaux	<a href="mailto:rcasaux@dna.gov.ar">rcasaux@dna.gov.ar</a>
Mammals	Energy acquisition, prey type and potential responses of pinnipeds to climatic anomalies and sea ice extent in the Antarctic Peninsula region and the Scotia Arc.	Carlini (ex Jubany) Base	2011 - 15	Bioq. Maria Marquez	<a href="mailto:mitsuki@dna.gov.ar">mitsuki@dna.gov.ar</a>
Antarctic birds	Response of Antarctic bird populations in relation to interannual variability in their preys on areas with evident global warming effects	Laurie, Nelson and 25 de Mayo (King George) islands	2011 - 15	Dr. Néstor Coria	<a href="mailto:ncoria@dna.gov.ar">ncoria@dna.gov.ar</a>

Microbiological biodegradation	Analysis of some biological factors conditioning the efficacy of biostimulation and bio-increase strategies in Antarctic environments polluted by hydrocarbons.	Carlini (ex Jubany) Base Marambio Base	2011 - 15	Dr. Walter Mac Cormack	<a href="mailto:wmac@huemul.ffyb.uba.ar">wmac@huemul.ffyb.uba.ar</a>
Ecology of benthonic communities	Climate change process in Antarctica, their effects on a coastal ecosystem.	Potter cove	2011 - 15	Dr. Ricardo Sahade	<a href="mailto:rsahade@com.uncor.edu.ar">rsahade@com.uncor.edu.ar</a>
Phytogeography	Phytogeography of Deschampsia Antarctica through molecular, morphological, and charological studies: a window to past under change scenarios.	Carlini (ex Jubany) Base Marambio Base	2011 - 15	Dr. Chiapella, Jorge	<a href="mailto:jorge.chiapella@gmail.com">jorge.chiapella@gmail.com</a>
Sea Science	Monitoring of Antarctic and Subantarctic marine plankton.	Potter cove	2011 – 15	Dra. Alder, Viviana	<a href="mailto:viviana_alder@yahoo.com">viviana_alder@yahoo.com</a>
Animal physiology	Coastal biomonitoring: Global change and xenobiotic effects on key species of Antarctic trophic chains.	Carlini (ex Jubany) Base	2011 - 15	Dr. Martín Ansaldo	<a href="mailto:tincho@qb.fcen.uba.ar">tincho@qb.fcen.uba.ar</a>
Antarctic Bird	Migration route and its relationship with the nutritional state of South Polar skua (Stercorarius Maccormicki)	Carlini (ex Jubany) Base	2011 - 15	Dr. Montalti, Diego.	<a href="mailto:dmontalti@fcnym.unlp.edu.ar">dmontalti@fcnym.unlp.edu.ar</a>

Sea Science	Monitoring of euphasiid larvae from Weddell - Scotia confluence	Weddell - Scotia confluence	2011-15	Dr. Marschoff, Enrique	<a href="mailto:marschoff@dna.gov.ar">marschoff@dna.gov.ar</a>
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### Geosciences

<i>Subject</i>	<i>Investigation</i>	<i>Locality</i>	<i>Duration</i>	<i>Principal Investigator</i>	<i>Address</i>
Permafrost and GlobalChange: Geomorphological glacial, post-glacial processes and Recent-late Cenozoic vulcanism.	Geomorphology and Glacial Geology of James Ross archipelago and South Shetland islands, northern area of Antarctic Peninsula.	Patagonia – Antarctic Peninsula	2011 - 15	Lic. J. A. Strelin	<a href="mailto:jstrelin@yahoo.com.ar">jstrelin@yahoo.com.ar</a>
Paleontology of Vertebrates	Weddelian Province vertebrates from late Cretaceous-Tertiary transition of Antarctic Peninsula and Southern extreme of Patagonia (50th parallel south)	James Ross Island, Antarctic Peninsula	2011 - 15	Dr. Marcelo Reguero	<a href="mailto:mreguero@netverk.com.ar">mreguero@netverk.com.ar</a>
Paleomagnetic	Paleomagnetic and environmental magnetism studies in the Holocene, recorded in soils and lake sediments in the northeast Antarctic Peninsula.	James Ross Island, Antarctic Peninsula	2011 - 15	Dr. Chaparro, Marcos	<a href="mailto:chaparro@exa.unicen.edu.ar">chaparro@exa.unicen.edu.ar</a>
Paleontology	Paleontology and paleoecology of Cenozoic diamictitic deposits of the James Ross basin, Antarctic biota adaptations to a changing climate	James Ross Island, Antarctic Peninsula	2011 - 15	Dra. Andrea Concheyro.	<a href="mailto:aconcheyro@hotmail.com">aconcheyro@hotmail.com</a>

Permafrost-hydrogeology and climate change	Characteristics in the permafrost-hydrogeology and climate change influence in areas with cryopeg and talik in the northern of Antarctic Peninsula.	Northern of Antarctic Peninsula	2011 - 15	Dr. Eugenio Yermolin.	<a href="mailto:ivgen52@yahoo.com">ivgen52@yahoo.com</a>
Geology and Paleontology of James Ross Basin	Magnetostratigraphy and biostratigraphy of the Santonian-Maastrichtian from the James Ross basin, Antarctica.	James Ross Island	2011-15	Dr. Eduardo Olivero	<a href="mailto:eolivero@satlink.com">eolivero@satlink.com</a>
GlobalChange	Changes induced by climate warming on glaciers, on permafrost and on sedimentation dynamics of coastal environments in the north of Antarctic Peninsula.	Northern of Antarctic Peninsula	2011-15	Dr. del Valle, Rodolfo	<a href="mailto:kings_foil@hotmail.com">kings_foil@hotmail.com</a>
Vulcanism of recent-late Cenozoic	Volcanological and geomorphological study of active volcanoes in Antarctica and Los Andes.	Deception Island (South Shetland Island)	2011-15	Dr. Alberto T. Caselli	<a href="mailto:acaselli@gl.fcen.uba.ar">acaselli@gl.fcen.uba.ar</a>

## Physical Sciences

<i>Subject</i>	<i>Investigation</i>	<i>Locality</i>	<i>Duration</i>	<i>Principal Investigator</i>	<i>Address</i>
Environmental Chemistry	Persistent organic pollutants and trace elements in biotic and abiotic matrices of the Antarctic environmen	Carlini (ex Jubany) Base	2011-15	Dr. Curtosi, Antonio	<a href="mailto:tonicur@yahoo.com">tonicur@yahoo.com</a>
UV Radiation	Effects of global change on benthic marine algae communities from Potter cove (South Shetlands, Antarctica)	Carlini (ex Jubany) Base	2011-15	Dr. María Liliana Quartino	<a href="mailto:lquartino@dna.gov.ar">lquartino@dna.gov.ar</a>
Sea Science	Effects combined of temperature increase and salinity decrease on coastal communities in polar ecosystems.	Carlini (ex Jubany) Base	2011-15	Dr. Irene Schloss	<a href="mailto:ischloss@dna.gov.ar">ischloss@dna.gov.ar</a>



## Institutional activities

<i>Subject</i>	<i>Investigation</i>	<i>Locality</i>	<i>Duration</i>	<i>Principal Investigator</i>	<i>Address</i>
<b>Life Sciences</b>					
Ecology	Conservation and Monitoring of the Ecosystem - CCAMLR	Antarctic Sea	2013-14	Dr. Néstor Coria – Dr. Enrique Marschoff.	<a href="mailto:ncoria@dna.gov.ar">ncoria@dna.gov.ar</a>
Global change	Global change effect on physiological parameters of Antarctic penguins: <i>Pygoscelis antarctica</i> , <i>Pygoscelis papua</i> and <i>Pygoscelis adeliae</i>	Esperanza Station	2013-14	Lic. Di Fonzo, Carla	<a href="mailto:carladifonzo@yahoo.com.ar">carladifonzo@yahoo.com.ar</a>
Antarctic birds	Composition of Adélie and Gentoo penguin diet in Stranger point: seasonal, geographic and interspecific comparison	Carlini (ex Jubany) Station	2013-14	Lic. Juárez, Mariana	<a href="mailto:marianajuarez@hotmail.com">marianajuarez@hotmail.com</a>
Antarctic krill	Impact of fisheries on Antarctic krill availability ( <i>Euphausia superba</i> ) to top predators from Scotia Arc islands	Orcadas Station	2013-14	Dra. Rombolá, Emilce	<a href="mailto:rombola_emilce@hotmail.com">rombola_emilce@hotmail.com</a>
Antarctic birds	Influence of the utilization of space and alimentary resources on the nutritional state and reproductive success of Antarctic skuas	Carlini (ex Jubany) Station	2013-14	Lic. Grilli, Maricel	<a href="mailto:jmenu@hotmail.com">jmenu@hotmail.com</a>
Sea Science	Diversity and life cycles of Antarctic fishes through morphological and molecular techniques: a conservationist approach.	Antarctic Sea	2013-14	Dr. Díaz de Astarloa, Juan	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>

Sea Science	Oceanographic surveys in the south of parallel 55° S with special reference to Drake passage, Shetland islands and Bellingshausen sea: studies of chemical and biological processes	Antarctic Sea	2013-14	Dr. Esteves José	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Ichtiology	Genetics, energetics and stable isotopes of Subantarctic and Antarctic notothenids.	Antarctic Sea	2013-14	Dr. Fernandez, Daniel	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Molluscs	Morphology and ultrastructure of the reproductive system and digestive gland in marine molluscs. Sperm morphology and systematic and phylogenetic importance.	Antarctic Sea	2013-14	Dra. Gimenez, Juliana	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Marine bird	Monitoring of pelagic marine bird communities in the Weddell-Scotia confluence, Antarctica	Antarctic Sea	2013-14	Dr. Orgeira, José	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Ecology	Ecology and conservation of birds and marine mammals	Antarctic Sea	2013-14	Dra. Raya Rey, Andrea	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Taphonomy	Study of an association of mummified seals in Bodman cape, Marambio (Seymour) island: age, taphonomy and pathological analysis	Marambio (Seymour) island	2013-14	Dr. Negrete, Javier	<a href="mailto:negretejavi@hotmail.com">negretejavi@hotmail.com</a>
Benthic suspensivore organisms	Systematics, biogeography, and macro-epibiotic associations in benthic suspensivore organisms (ascidians and pennatulaceans) in a latitudinal and bathymetric gradient.	Antarctic Sea	2013-14	Dr. Tatián, Marcos	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>

<b>Geosciences</b>					
Earth sciences	Aerogeophysics IceGrav	Antarctic Peninsula	2013-14	Dra. Ghidella, Marta	<a href="mailto:mghidella@dna.gov.ar">mghidella@dna.gov.ar</a>
Glaciology	Mass balance, glacier monitoring, and climatic data collection in Antarctic Peninsula and Southern Patagonia	Antarctic Peninsula	2013-14	Eng. Marinsek, Sebastian	<a href="mailto:glacio@dna.gov.ar">glacio@dna.gov.ar</a>
Geophysics	Antarctic seismological network	Antarctic Sector	2013-14	Dra. Roucco, Maria	<a href="mailto:palmerasoleada@yahoo.com.ar">palmerasoleada@yahoo.com.ar</a>
Antarctic Geodesy	Antarctic Geodesy (Germany and USA)	Antarctic Sector	2013-14	Mr. Andrés Zakrajsek	<a href="mailto:afz@dna.gov.ar">afz@dna.gov.ar</a>
Software	Software development to processing and analysis of satellite images and ice radar measurements, applied to glacier surveys	James Ross Island Group	2013-14	Eng. Marinsek, Sebastian	<a href="mailto:smarinsek@dna.gov.ar">smarinsek@dna.gov.ar</a>
<b>Physical Sciences</b>					
Cosmic ray	LAGO Antarctica	Marambio (Seymour) island	2013-14	Dr.Dasso; Dra Gulisano	<a href="mailto:agulisano@dna.gov.ar">agulisano@dna.gov.ar</a>
Physical and Chemical Sciences	Magnetosphere	San Martin and Belgrano Stations	2013-14	Eng. Eduardo D. Calviño	<a href="mailto:edcalvino@dna.gov.ar">edcalvino@dna.gov.ar</a>

Physical and Chemical Sciences	Atmospheric ozone	Antarctic stations	2013-14	Eng. Eduardo D. Calviño -	<a href="mailto:edcalvino@dna.gov.ar">edcalvino@dna.gov.ar</a>
Physical and Chemical Sciences	Greenhouse effect	Carlini (ex Jubany) Station	2013-14	Eng. Eduardo D. Calviño	<a href="mailto:edcalvino@dna.gov.ar">edcalvino@dna.gov.ar</a>
Cosmic ray	Cosmic ray Dosimetry	Antarctic Peninsula	2013-14	Eng. Eduardo D. Calviño and Dr. Ciancio, Vicente	<a href="mailto:edcalvino@dna.gov.ar">edcalvino@dna.gov.ar</a>
Environmental Chemistry	Environmental monitoring of chemical pollutants	Carlini (ex Jubany) Station	2013-14	Dr. Cristian Vodopivec	<a href="mailto:quimica@dna.gov.ar">quimica@dna.gov.ar</a>
Environmental Chemistry	Biogeochemical characterization in Esperanza station and north of Antarctic Peninsula, Argentina	Esperanza Station	2013-14	Dra. Chiarandini, Jessica	<a href="mailto:jchiarandini@hotmail.com">jchiarandini@hotmail.com</a>
Atmosphere sciences	Determination of COSVs and COPs in air	Antarctic Sea	2013-14	Dr. Arguello, Gustavo	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Atmosphere sciences	Synthesis, Kinetic spectroscopy and photochemistry of environmental relevance compounds	Antarctic Sea	2013-14	Dr. Arguello, Gustavo	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Atmosphere sciences	Validation of variables of the Climatic System in global ocean	Antarctic Sea	2013-14	Dra. Salio Paola	<a href="mailto:ssantillana@dna.gov.ar">ssantillana@dna.gov.ar</a>
Oceanograph	Physical oceanography - Carlini station	Carlini (ex Jubany) Station	2013-14	Lic. G. Tosonotto	<a href="mailto:gtosonotto@dna.gov.ar">gtosonotto@dna.gov.ar</a>
Museum	Conservation of historical shelters	Snow Hill and Paulet island	2013-14	Lic. Veronica del Valle	<a href="mailto:museoantar@dna.gov.ar">museoantar@dna.gov.ar</a>

## Permanent observatories, standard observations and long-term monitoring programmes

Activity	Responsible Authority or Investigator
<b>Marambio station (Marambio Antarctic Meteorological Center)</b>	
Meteorological observations of following parameters: Pressure, Temperature, Moisture, Wind (Direction and intensity), Clouds (Number, type and height), Visibility, Soil status, Snow height, precipitations, heliophany, special phenomena observation (noctilucent clouds, auroras, optical phenomena, soil temperature, sea ice.	SMN (National Meteorological Service, Antarctic Department)
Height observations (radio sounding, radio wind). Daily observations of temperature, pressure, moisture, wind in altitude	SMN (National Meteorological Service, Antarctic Department)
Solar radiation observations. Global solar radiation daily. Ultraviolet solar radiation	SMN (National Meteorological Service, Antarctic Department)
Atmospheric Ozone radiation. Total ozone, Dobson spectrophotometer. Vertical profile: ozone sounding, two weekly, June-December, other two monthly.	SMN (National Meteorological Service, Antarctic Department)
Observation and measurement of pollutants and atmospheric aerosols	SMN (National Meteorological Service, Antarctic Department)
Meteorological forecast, support to aviation, maritime sailing. Daily observations and storm warnings for Antarctic Argentine Sector. Bulletins for radiobroadcasting	SMN (National Meteorological Service, Antarctic Department)

<b>Orcadas Station (Geomagnetical and Meteorological Observatory, South Orkney)</b>	
Meteorological observations every 3 hours of following parameters: Pressure, Temperature, Moisture, Wind (Direction and intensity), Clouds (Number, type and height), Visibility, Soil status, Snow height, precipitations, heliophany, special phenomena observation (noctilucent clouds, auroras, sea glaze). Glaciological observations	SMN (National Meteorological Service, Antarctic Department)
Geomagnetical observations. Normal photographic record of D, H, and Z compounds. Absolute observations. Magnetogrammes.	SMN (National Meteorological Service, Antarctic Department)

<b>San Martin Station</b>	
Meteorological observations every 3 hours of following parameters: Pressure, Temperature, Moisture, Wind (Direction and intensity), Clouds (Number, type and height), Visibility, Soil status, Snow height, precipitations, heliophany, special phenomena observation (noctilucent clouds, auroras, sea glaze). Glaciological observations	SMN (National Meteorological Service, Antarctic Department)

<b>Carlini (ex Jubany) Station</b>	
Meteorological observations every 3 hours of following parameters: Pressure, Temperature, Moisture, Wind (Direction and intensity), Clouds (Number, type and height), Visibility, Soil status, Snow height, precipitations, heliophany, special phenomena observation (noctilucent clouds, auroras, sea glaze). Glaciological observations	SMN (National Meteorological Service, Antarctic Department)

<b>Esperanza Station</b>	
Meteorological observations every 3 hours of following parameters: Pressure, Temperature, Moisture, Wind (Direction and intensity), Clouds (Number, type and height), Visibility, Soil status, Snow height, precipitations, heliophany, special phenomena observation (noctilucent clouds, auroras, sea glace). Glaciological observations	SMN (National Meteorological Service, Antarctic Department)
Climatological statistics of Argentine Stations	SMN (National Meteorological Service, Antarctic Department)
G.A.W. Project. Climatic Change Studies	SMN (National Meteorological Service, Antarctic Department)
G. COS Project. Global Change Survey	SMN (National Meteorological Service, Antarctic Department)
Survey of Austral Ozone Layer	SMN (National Meteorological Service, Antarctic Department)
G.A.W. Project. Climatic Change Studies	SMN (National Meteorological Service, Antarctic Department)
Survey of Pollutants and Atmospheric Aerosols	SMN (National Meteorological Service, Antarctic Department)