VIEWBER COUNTRY.						
National Report to SCAR for		2008-2009	Talanhana	Fax	Email	web eite
Activity	Contact Name	Address	Telephone	Fax	Email	web site
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Standing Scientific Groups						
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Geosciences			1			}
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MEMBER COUNTRY:

Activity	Contact Name	Address	Telephone	Fax	Email	web site
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Activity	Contact Name	Address	Telephone	Fax	Email	web site
ACTION GROUPS						
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EXPERT GROUPS						
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2) 3) 4) insert others as needed						
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NATIONAL ANTARCTIC DA	TA CENTRE	ł				I
SCAR DATABASE insert name of database for w	/hich your country has resp	onsibility				

Life Science		Create a platform that facilitates	South Shetland	2007-2011	Jenny BLAMEY,	jblamey@bioscience.cl
	OF BIOLOGICAL RESOURCES FOR NATIONAL BIOTECHNOLOGY	the access to Antarctic resources, as microorganisms and plants, allowing a valuation, for the Chilean biotechnology as well as the scientific development.	Island, Antarctic Peninsula		Fundación Biociencia	
Life Science	BIOREACTORS. USES	Develop a technology and methodology of cellular culture of <i>Deschampsia antarctica</i> in bio reactors in order to obtain viable photo protectors extracts from the plant.	King George Island	2007-2010	Manuel GIDEKEL, Universidad Adolfo Ibañez	manuel.gidekel@uai.cl.
Life Science	RESPONSE IN THE ANTARCTIC SEA URCHIN	Identify, characterize and compare the expression profile of immune genes in the Antarctic equinoderm <i>S. neumayeri</i> .	King George Island	2009-2012	Marcelo GONZÁLEZ, Instituto Antártico Chileno	mgonzalez@inach.cl
Life Science	DIVERGENCE AND CONNECTIVITY IN THE SOUTHERN OCEAN: A MODEL OF ANTARCTIC	Evaluate the existence of pliocenic or pleistocenic contacts between faunas, observing the molecular divergence in mitocondrials sequences of co generic benthonic invertebrates species from Antarctica and South America.	King George Island	2007-2010	Elie POULIN, Universidad de Chile	epoulin@uchile.cl

Life Science, Ecology	SHALLOW ANTARCTIC ECHINODERMS WITH CONTRASTING DEVELOPMENTAL	equinoderms development, related	2007-2010	Álvaro PALMA, Pontificia Universidad Católica de Chile	apalma@bio.puc.cl
Life Science, Ecology	MICROHABITATS AND CENSUS OF BIODIVERSITY	This project is studying the way in which organisms are distributed on Antarctic reefs, and is a companion project for similar research undertaken in Magallanes. We are studying species diversity and composition of organisms associated with rocky reefs macroalgal communities, examined along a depth gradient. Additionally, this project will contribute to an international census of near-shore marine biodiversity (NaGISA).	2008-201	Emma NEWCOMBE. CEQUA.	emmanewcombe@gmail.com
Life Science	OUTCOMES FOR ANTARCTIC FLORA UNDER A GLOBAL	vascular plants population and the diversity and richness of species in	2007-2010	María Angélica CASANOVA, Universidad de Concepción	angecasanova@udec.cl

Life Science	MODELING APPROACH OF SANIONIA UNCINATA (HEDW.) LOESKE AS SUPPORT FOR STUDIES ON CONSERVATION	This projet would investigate different variables that describes dispersion and colonization of mosse species associated to environmental variables of the present and the past, supporting other areas of study, as like those oriented to evaluate the global climate change and the determination of potential future scenarios.	South Shetland Island, Antarctic Peninsula	2009-2012	Ingrid HEBEL. Universidad de Magallanes.	ingheble@hotmail.com
Life Science	DIVERSIFICATION PROCESSES OF THE GENUS <i>STERECHINUS</i> (ECHINODERMATA, ECHINOIDA) FROM SHALLOW AND DEEP-SEA AREAS OF THE SOUTHERN OCEAN	This research proposal focus on evaluate the evolutionary relations between the Antarctic and subantartic area, shallow and deep zones on Sterechinus genus, utilizing multiples molecular markers (nuclear and mitochondrial). Additionally, genetic structure of Antarctic and Subantarctic regions as well as their connectivity patterns will be estimated through hipervariables molecular markers.		2009-2011	Angie DIAZ. Universidad de Chile	angie.ddl@gmail.com
Life Science	IDENTIFICATION OF BIO MARKERS OF THE FLUCTUATIONS OF THE ICE COVER IN THE BENTHONIC DIATOMS OF THE CHILEAN ANTARCTIC PENINSULA	The principal aim of our research is to evaluate the impact of the retrieval/ advance of the ice covertures on the photo-biological characteristics and responses of an important group of benthic diatoms of the coastal area of the Antarctic Peninsula.	South Shetland Islands and Antarctic Peninsula	2008-2011	Paulina URIBE. Fundación Ciencia para la Vida.	pau.uribe@gmail.com

Life Science	COLOBANTHUS QUITENSIS (CARYOPHYLLACEAE)	In this project we will evaluate the phenotypic plasticity in C. quitensis individuals under a complex global change scenario. We will make a factorial experiment with C. quitensis individuals from both Antarctic Maritime and Antarctic Peninsula and genetic analysis in order to assess the responses of C. quitensis under future environmental scenarios.	South Shetland Islands		Marco MOLINA. Universidad de Concepción.	marcmoli@udec.cl
Life Science	GEO-REFERENCING, BIODIVERSITY AND GROWTH RATE IN THE SOUTHERN OCEANS	This project will assess physical factors determing biodiversity and growth rate of selected species along a broad latitudinal scale, using new developed technologies.	King George Island		Dirk SCHORIES. Universidad Austral de Chile	dirk.schories@gmx.de
Life Science	SMALL SCALE POPULATION STRUCTURE OF ABATUS AGASSIZII (MORTENSEN, 1910), A BROODING ANTARCTIC ECHINOID FROM BAHIA FILDES, KING	In this project, one sets out to accurately characterize the limits of the area that occupies the population of the brooding echinoid A. agassizii, in order to analyze its genetic diversity and to determine the existence of a small scale genetic structure (from meters to kilometers).	Island	2009-2012	Karin GERARD. Universidad de Chile	gerardkarin@yahoo.fr
Life Science	ASSOCIATED TO MACRO	We will propose an exploratory study which will allow us to identify and compare the culturable bacterial diversity associated with the seaweeds Adenocystis utricularis and Porphyra sp., which are present in both areas.	King George Island	2009-2010	Javier PEREZ. Pontificia Universidad Católica de Valparaíso	javierpg1@gmail.com

Life Science	IN THE ANTARCTIC-FROM MICROBIAL SULFIDE OXIDATION TOWARDS SUBMARINE GROUNDWATER	The project will investigate the biogeochemical processes of the liberation of iron and sulfur from its source in the Antarctic, the sulfide mineralization (mainly as As pyrite (FeS2), and chalcopyrite (FeCuS2), towards its infiltration in form of Fe2+ as submarine groundwater discharge (SGD) in the ocean.	Island, Antarctic		Bernhard DOLD. Universidad de Concepción.	<u>bdold@udec.cl</u>
Life Science	THE BACTERIAL COMMUNITY IN DIFFERENT HABITAT OF FILDES PENINSULA (KING GEORGE ISLAND) AND CAPE SHIRREFF (LIVINGSTON ISLAND)	The aim of this research is to determine the influence of diverse microhabitats on the biodiversity of the bacterial communities living in Fildes Peninsula, King George Island, and Cape Shirreff, Livingston Island. The results to be obtained would contribute to a potential improvement of the human activities at productive industrial level, and also in the advances in Biomedicine.			Gerardo GONZALEZ. Universidadd e Concepción.	ggonzalez@udec.cl
Life Science	ANTARCTICA UNDER ABIOTIC STRESS	This project aims to identify and characterize the physiological responses of <i>D. antarctica</i> to water, salt and cold stress, and correlate these responses with its ability to produce and accumulate stress responsive LEA proteins in its vegetative tissues.	South Shetland Island	2008-2010	Léon BRAVO. Universidad de Concepción.	lebravo@udec.cl

Life Science	SUCROSE ACCUMULATION AND SPS ACTIVITY INDUCED IN COLD ACCLIMATED COLOBANTHUS QUITENSIS WITH SUCROSE PHOSPHATE SYNTHASE (SPS) ISOFORMS EXPRESSION; DAY LONG AND LIGHT MODULATION	Understanding regulation of sugar metabolism of the Antarctic <i>C.</i> <i>quitensis</i> and comparing the regulation mechanisms with other ecotypes will allow us to obtain important implications of the environmental modulation of plant responses to temperature, light and photoperiods. Besides it will be important for understand whether sucrose accumulation is a general characteristic of this species or a distinctive crioprotective mechanism of low temperature living population.	South Shetland Island	2009-2012	Marely CUBA. Universidad de Concepción.	mcubaster@gmail.com
Life Science	IN MARINE ORGANISMS.	The purpose of this project is not the isolation and the structural characterization of the secondary metabolites per se, it will be only made if some of them present an important biological activity, including with comparative aims the culture in vitro, in order to obtain an additional mass if the situation requires it.	South Shetland Island	2009-2012	Aurelio SAN MARTIN. Universidad de Chile.	<u>aurelio@uchile.cl</u>

Life Science	OBTAINED FROM NEW FUNGI ISOLATED FROM ANTARCTIC MARINE SPONGES	This project proposes the search of new bioactive compounds from fungi isolated from marine sponges living under the Antarctic sea. Marine Antarctic sponges are a potential source of bioactive secondary metabolites with biotechnological interest, such as antiviral, antitumoral, antimicrobial and cytotoxic compounds.	Island	2009-2013	Inmaculada VACA. Universidad de Chile.	inmavaca@uchile.cl
Life Science	BIODIVERSITY OF ANTARCTIC YEASTS AND ITS BIOTECHNOLOGICAL POTENTIAL	One of the main objective of this project is to isolate and to construct a culture collection as complete as possible of yeast that colonize these territories, which could be a reference for future ecological and biotechnological researches.	South Shetland Island	2009-2012	Marcelo BAEZA. Universidad de Chile.	mbaeza@uchile.cl
Life Science	ANTARCTIC SEAWEEDS	The present proposal focuses on examining the relationship between the underwater UV climate and the expression of UV stress tolerance mechanisms in Antarctic seaweeds along a depth gradient.	South Shetland Island	2009-2011	Iván GOMEZ. Universidad Austral de Chile	igomezo@inach.cl

Life Science	PREDATION IMPACT AND ROLE IN THE VERTICAL CARBON FLUX OF CHAETOGNATHS AND AMPHIPODS IN THE SOUTHERN OCEAN	This study aims to evaluate the role of the major zooplankton predators (chaetognaths and amphipods) in the SO as consumers of the copepod standing stock and secondary production, and their role in the vertical carbon flux.	Southern Ocean	2009-2011	Humberto GONZALEZ. Universidad Austral de Chile	hgonzalez@uach.cl
Life Science	EFFECTS OF CLIMATE CHANGE IN THE DIETARY HABITS OF SEABIRD POPULATIONS ON ARDLEY ISLAND, USING STABLE ISOTOPES OF CARBON AND NITROGEN	In this project we rely on the apparent reduction of Antarctic Krill's population (Euphasia superba), as a particular example of global warming effects on the Antarctic ecosystem, to determinate the possible shifts on seabird's diet, using stable isotopes. For this, we propose a study based in 5 species of seabirds that inhabit Ardley Island and have a strong dependence on E. superba, to which we make an historical comparison of marine foods (diet).	Ardley Island	2009-2010	Pablo NEGRETE and Franco PERONA. Universidad de Chile	negretepablo@gmail.com/fperona@ gmail.com
Geoscience	STABILITY AND RECENT BEHAVIOUR OF GLACIERS IN THE ANTARCTIC PENINSULA – THE INTERACTIONS WITH ICE SHELVES	Study the stability and recent behavior of glaciers in the Antarctic Peninsula and the interactions with ice shelves.	Antarctic Peninsula	2007-2010	Anja WENDT, Centro de Estudios Cientificos	awendt@cecs.cl

SOUTH AMERICAN CLIMATE: JOINT EXTRACT OF	Recover paleoclimatic information using ice core sampling , undertaking a joint study of the glacial systems and their answers to the environmental changes in a regional scale.	Antarctic Peninsula		Ricardo JAÑA, Instituto Antártico Chileno	rjana@inach.cl
CONNECTION BETWEEN WEST	Investigate the paleogeographical, paleoclimatic and tectonic relations between the Antarctic Peninsula and the southern Patagonia, from late Paleozoic to recent Paleozoic.	Chilean Patagonia, Antarctic Peninsula, South Shetland Island	2006-2010	Teresa TORRES, Universidad de Chile	ttorres@uchile.cl
FINGERPRINT OF TEPHRA FROM HOLOCENE/QUATERNA	Reconstruct the regional volcanic history and climate evolution of the northern Antarctic Peninsula area, studying chemical fingerprint of tephra from holocene/quaternary volcanoes	Antarctic Peninsula		Stefan KRAUS, Instituto Antártico Chileno	skraus@inach.cl

	FROM NORTHERN ANTARCTIC PENINSULA AND	The aim of this study is to investigate the terrestrial clastic rocks of the Trinity Peninsula Group, placed on Antarctic Peninsula, and the Duque de York Complex, at the occidental margin of the southern part of South America (Patagonia), in order to identify the characteristics of their source and the tectonic regime of the depositational basin, and, if possible, correlate both units.	Peninsula	2008-2010	Paula CASTILLO. Universidad de Chile.	paucasti@ing.uchile.cl
Geoscience	LATE JURASSIC AND EARLY CRETACEOUS IN THE TORRES DEL PAINE NATIONAL PARK	Study icthyosaurs and the environment in which they lived, in the present area of the Glacier Tyndall (Torres del Paine), to understand how the climatic changes of the past, the massive extinction and the separation of South America and Antarctica, conditioned the existence of life.	Antarctic Peninsula, Chilean Patagonia	2008-2011	Wolfgang STINNESBECK, Marcelo LEPPE. Universität Heidelberg and INACH	stinnesbeck@uni-heidelberg.de mleppe@inach.cl

Geoscience VERY LOW GRADE METAMORPHISM IN THE VOLCANIC SUCCESSIOI OF THE SOUTH SHETLA ISLANDS	determine the characteristics of the very low grade (low grade)	West Antarctica	2009-2011	Francisco HERVÉ. Universidad de Chile	fherve@cec.uchile.cl
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THERMOCHRONOLOGICAL STUDY OF NORTHERN ANTARCTIC PENINSULA: IMPLICATIONS FOR THEIR MESO-CENOZOIC AND CLIMATIC EVOLUTION	The project aims to evaluate whether or not the consecutive subduction of ridge segments exerted some control in the unroofing of the western segments of the Antarctic Peninsula block. To elucidate this and test other possible scenarios, zircon and apatite fission track thermochronological data and thermobarometric information will be generated in AP rocks with well known crystallization and/or depositional ages. Complementary thermochronological information will be also obtained from rocks of the Patagonian and Fuegian Andes.	Antarctic Peninsula	2009-2011	Mauricio CALDERON. Universidad de Chile.	mcalderon@gmail.com
PALAEOPHYTOGEOGRAPH ICAL AND EVOLUTIONARY RELATIONSHIPS BETWEEN SOUTHERN PATAGONIA AND ANTARCTIC PENINSULA FLORAS DURING THE CRETACEOUS	The aim of this project is to contribute to the understanding of the complex geological and		2008-2011	Marcelo LEPPE. Instituto Antartico Chileno	mleppe@inach.cl

Physical Science	CHARACTERIZATION OF FINE ANTARCTIC TROPOSPHERIC AEROSOLS OF THE NORTH END OF THE ANTARCTIC PENINSULA AND LINKAGE WITH THEIR SOURCES	Analyze the impact of human influence on the environmental chemical system and quantify the elementary chemical composition of six components of the Antarctic environmental system, with a certain degree of human intervention.	King George Island and Antarctic Peninsula	2007-2010	Margarita PRÉNDEZ. Universidad de Chile	mprendez@ciq.uchile.cl
Physical Science	NEUTRON MONITOR MN-64 FOR THE CHILEAN ANTARCTIC TEERRITORY	Contribute to the study of the Sun- Earth relationships, especially on the effects induced by the Sun in the Antarctic continent.	King George Island	1982-2010	Enrique CORDARO. Universidad de Chile	ecordaro@dfi.uchile.cl
Physical Science		study of the inner magnetosphere dynamics during geomagnetic storms using data from the SAMBA	King George Island	2009-2010	Victor PINTO. Universidad de Chile	victor.pinto@gmail.com
	EVALUATION OF THE POLLUTING EFFECTS RELATED TO ANTHROPOGENIC ACTIVITIES IN CHILEAN ANTARCTIC BASES	The main objective of this project is therefore, identify pollutants in different matrixes obtained in the proximity of Chilean Antarctic Stations and correlate statistically the measures to identify key parameters to be used as indicators of pollution, to determine the extension and the speed of environmental deterioration.	South Shetland Island, Antarctic Peninsula	2008-2011	María Soledad ASTORGA. Universidad de Magallanes	msoledad.astorga@umag.cl
Technology	UV RADIATION IN ANTARCTIC CHILEAN STATIONS	Characterize the total RUV-B variations and spectral values, during the year, inter-annual cycles, with special emphasis in the period of the Antarctic Ozone hole.	King George Island and Antarctic Peninsula	2005-2010	Claudio CASICCIA, Universidad de Magallanes	claudio.casiccia@umag.cl