



International Union of Geodesy and Geophysics  
Union G od sique et G ophysique Internationale

## **REP BLICA ARGENTINA**

**INFORME NACIONAL PRESENTADO A LA ASOCIACI N INTERNACIONAL DE  
GEOF SICA Y GEODESIA**

**XXVI ASAMBLEA GENERAL DE LA UNI N GEOD SICA Y  
GEOF SICA INTERNACIONAL – UGGI –**

**Praga, Rep blica Checa, 22 de junio – 2 julio de 2015**



## **ARGENTINA**

**NATIONAL REPORT PRESENTED TO THE  
INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS  
XXVI GENERAL ASSEMBLY OF THE  
INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS  
– IUGG –**

**Prague, Czech Republic, 22 June – 2 July, 2015**

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*COMIT  NACIONAL DE LA UNI N GEOD SICA Y GEOF SICA INTERNACIONAL  
NATIONAL COMMITTEE OF THE INTERNATIONAL UNION OF GEODESY AND  
GEOPHYSICS*  
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**REPÚBLICA ARGENTINA**  
**COMITÉ NACIONAL DE LA UNIÓN GEODÉSICA Y**  
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**(CNUGGI)**



**NATIONAL COMMITTEE OF THE INTERNATIONAL UNION OF  
GEODESY AND GEOPHYSICS**

*The main function of the IUGG National Committee is representing the Union in  
Argentina.*

*It is chaired by the National Geographic Institute Director, and assisted by two Vice  
Presidents, a General Secretary and a Secretary Assistant.*

*The current head staff is as follows:  
President: Surv. Sergio Rubén Cimbaro*



*Executive 1<sup>st</sup> Vicepresident: Dr Corina Risso*



*2<sup>nd</sup> Vicepresident: Dr Nora Sabbione*



*General Secretary: Surv. Rubén Carlos Ramos*



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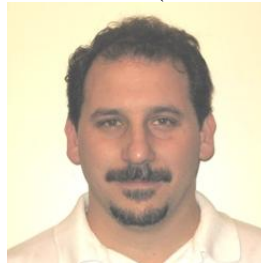


**Subcomité Nacional de la Asociación Internacional  
de Volcanología y Química del Interior de la Tierra**

**Argentinean National Sub-Committee of the  
International Association of Volcanology and Chemistry  
of the Earth Interior**



*Corina Risso*  
PRESIDENT (2012-2015)



*Gustavo Villarosa*  
SECRETARY (2012-2015)

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◆ *Most of them carried their research work on Volcanology, Igneous Petrology and Geochemistry at different national institutes, centres, laboratories and universities.*

◆ *Therefore, the present National Report has been organised in order to include the most relevant activities of Members. The reported activities are listed by individual researchers as follow.*

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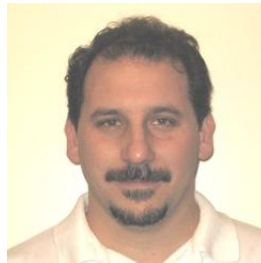
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CENTRO DE INVESTIGACIONES GEOLOGICAS . ARGENTINA



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**9.-Museo Argentino de Ciencias Naturales "Bernardino Rivadavia"**

*National Museum of Natural Sciences "Bernardino Rivadavia"*



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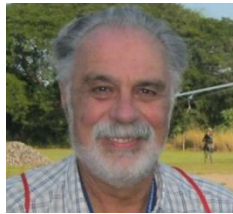
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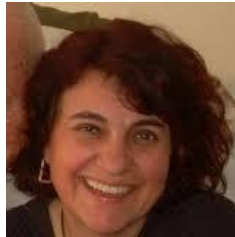
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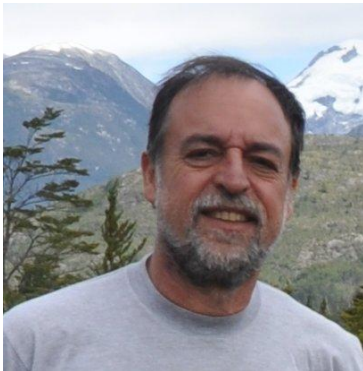
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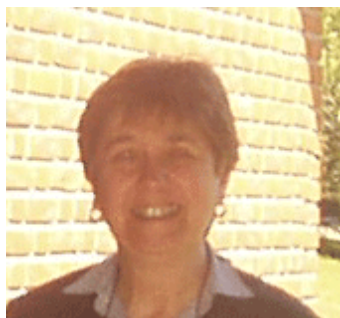




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4. ICATE: Instituto de Ciencias Astronómicas, de la Tierra y del Espacio <i>Institute of Astronomic, Earth and Space Sciences</i>	56
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**1. INSTITUTION:**

7. IGEBA: Instituto de Geociencias Básicas, Aplicadas y Ambientales  
Area : *Laboratory of Geophysics Daniel A. Valencio*

**Sampling for environmental magnetism studies, Tierra del Fuego, Argentina**



**NAME:** Members of IAGA that work at that Institution:

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Dr Guillermo RE                        [indio@gl.fcen.uba.ar](mailto:indio@gl.fcen.uba.ar)

**FIELD WORK:**

Paleomagnetism, Stratigraphy, Tectonics, Quaternary and Environmental magnetism, Applied Geophysics and Prospecting. Potential Fields.

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**2. INSTITUTION:**

Instituto de Física Arroyo Seco (IFAS)- Universidad Nacional del Centro. (*Physic Institute “Arroyo Seco” (IFAS)– National University of the Center of BuenosAires Province*)

**Core sampling in Antartica (Marambio)**



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**FIELD WORK:**

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**Prague, Czech Republic**

**3. INSTITUTION:**

Instituto de Geodesia y Geofísica Aplicadas (IGGA)- Facultad de Ingeniería. Universidad de Buenos Aires (*Institute of Geodesy and Applied Geophysics - Engineering Faculty – Buenos Aires University*)

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**FIELD WORK:**

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**4. INSTITUTION:**

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**NAME**

Area: Ionósfera (Area: Ionosphere)

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---



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**Prague, Czech Republic**

**5.- INSTITUTION:**

Instituto de Geocronología y Geología Isotópica (INGEIS) – Universidad de Buenos Aires – Consejo Nacional de Investigaciones Científicas y Técnicas (*Institute of Geochronologie and Isotopic Geology – Buenos Aires University – National Council of Scientific and Technical Researches*)

**NAME:**

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Members of IAGA that work at that Institution:

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**FIELD WORK:**

Geophysics: Magnetotelluric

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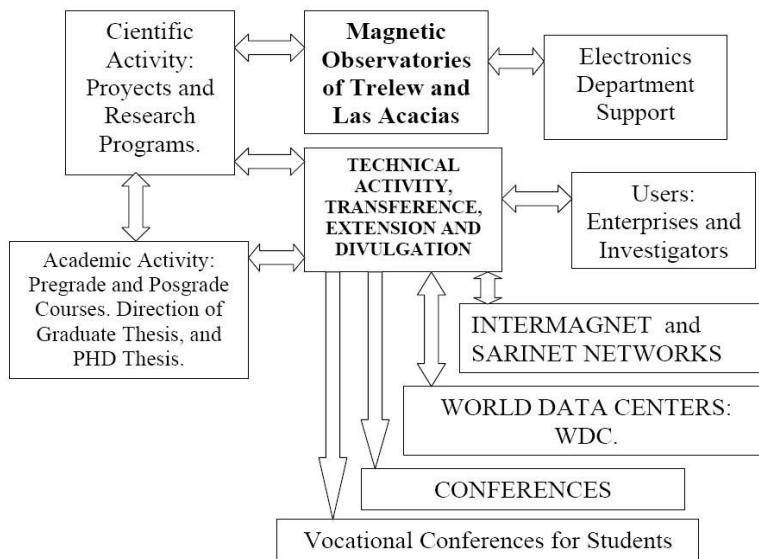
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**ARGENTINE NATIONAL REPORT 2012-2015  
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Prague, Czech Republic**

**6.- INSTITUTION:**

Facultad de Ciencias Astronómicas y Geofísicas – Universidad Nacional de La Plata  
(*Faculty of Astronomical and Geophysical Sciences - La Plata National University*)

**DEPARTMENT OF GEOMAGNETISM AND AERONOMY**



**TRELEW MAGNETIC OBSERVATORY-INTERMAGNET (Earth google view)**



**ARGENTINE NATIONAL REPORT 2012-2015**  
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Departamento de Geomagnetismo y Aeronomía (*Department of Geomagnetism and Aeronomy*)

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Tec. Germán Bischoff

Tec. Claudia Requejo

Tec Eduardo Suarez

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**FIELD WORK:**

Geomagnetism and Aeronomy

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Union Géodésique et Géophysique Internationale  
International Union of Geodesy and Geophysics



**Sub Comité Nacional de la Asociación  
Internacional de Meteorología y Ciencias de la  
Atmósfera**

**Argentinean National Committee of the  
International Association of Meteorology and  
Atmospheric Sciences**



*Adelia P. Alessandro*  
PRESIDENT (2007-2011)



*Estela Collini*  
SECRETARY



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*Lic. Camila Farías*  
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- ◆ *Currently, the Argentinean National Committee of IAMAS (CNIAMAS) adds up 45 native Members.*
- ◆ *Most of them carried their research work on Meteorology and related sciences at different national and international institutes, centres, laboratories and universities.*
- ◆ *Few of them are temporarily abroad, working at foreign institutes, centres and universities.*
- ◆ *The present National Report has been organised in order to include a summary of the activities of the institutes listed below where members and no-members carried their research. It should be noted that by the time of this report the list includes the institutions that respond to our survey.*

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**Centre, Institute, University, etc.**

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**1a.- INSTITUTION**



**Departamento de Ciencias de la Atmósfera y los Océanos –  
FCEN. Universidad de Buenos Aires**

*– Department of Atmospheric and Oceanic Sciences at University  
of Buenos Aires-*

**Mission:**

The Department of Atmospheric and Oceanic Sciences at University of Buenos Aires is the unique center in Argentina that offers a study program to get a degree in Atmospheric Sciences. In addition, it was designated as a Regional Educational Center by the World Meteorological Organization.

The following diplomas are offered:

- Doctors (PhD.) in Atmospheric Sciences and Physical Oceanography,
- Masters (MSc.) in Agrometeorology and Environmental Sciences (in agreement with other Departments),
- Degrees (*Licenciados*) in Atmospheric Sciences and Physical Oceanography,
- Bachelors in Atmospheric Sciences specialized in Agrometeorology, Hydrometeorology, Climatology and Synoptic Meteorology, and
- Senior-School Teacher in Atmospheric Sciences.

In addition to its objective as educational center, the Department supports scientific research as another major objective. Consequently, it constitutes one of the major national centers for scientific production in the field of Atmospheric Sciences. It includes different working groups in climate change, climatology, synoptic meteorology, atmospheric pollution, remote sensing, agrometeorology, mesometeorology, hydrometeorology and biometeorology. Their results are published in international and national journals. Many researchers also publish their studies in books and special reports.

The researchers at the Department have an active participation in congresses and scientific meetings, where they present and discuss preliminary results. Most of the research projects receive financial support from a variety of sources, ranging from local agencies to international research consortia.

This report contains a list of the most publications with results from research activities conducted at the Department, congresses or scientific meetings where they have been



presented and the corresponding projects.

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### **Institutional researchers subcommittee**

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(Am)	Specialist	agrometeorology
(Cli)	‘	climatology
(Di)	‘	dinamics
(Gl)	‘	glaciology
(Hi)	‘	hidrology
(Mi)	‘	micrometeorology
(Nm)	‘	numerical modeling
(Rs)	‘	remote sensing
(Sy)	‘	synoptic

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**INSTITUTION 1b.**



**Centro de Investigaciones del Mar y la Atmósfera (CIMA / CONICET-UBA)**

*– Research Centre on the Sea and the Atmosphere –*

**Mission:**

CIMA (The Center for Sea and Atmosphere Research), supported by CONICET (Research Council for Science and Technology of Argentina), is an associated laboratory with the Department of Atmospheric Sciences of the University of Buenos Aires. It is located in the main campus of the University of Buenos Aires, close to the Department of Atmospheric Sciences, near Buenos Aires City.

Research activities at CIMA are mainly focused on Climate Modeling, Regional Climate Variability, studying Regional Anthropogenic Effects on Climate, Argentine Sea Circulation Modeling, Numerical Weather Prediction, and Climate Change .

CIMA is the main, probably the only one, fully devoted Research Center with activities in Atmospheric and Oceanic Modeling in Argentina.

CIMA objective is the expansion of the understanding of the physical processes that control and determine the behaviour of the atmosphere and the ocean, like key elements of the climatic system. Another objective to fulfill is to contribute to the formation and improvement of investigators and technicians, and to the education of pre and postdegree in the fields of Meteorology, Climatology and Oceanography.

To promote the development of studies of this specialty and to transfer technological results, product of its investigations.

**DIRECTOR NAME:** Carolina Vera (PhD. in Meteorology)  
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**2.- INSTITUTION**



**SERVICIO METEOROLÓGICO NACIONAL** (*Argentine National Meteorological Service*)

**MISION**

Observar, comprender, predecir el tiempo y el clima en el territorio nacional y zonas oceánicas adyacentes con el objeto de contribuir a la protección de la vida y la propiedad de sus habitantes y al desarrollo sustentable de la economía; y proveer a la representación del país ante los organismos meteorológicos internacionales y al cumplimiento de las obligaciones asumidas por el país ante los mismos.

**MISSION:**

To observe, to understand, to predict the weather and the climate in the National territory and adjacent oceanic zones in order to contribute to the protection of the life and the property of the people and sustainable development of the economy; and to provide the representation of the country with the meteorological institutions and the execution of the obligations assumed by our country with them.

Operational products can be obtained at the National Weather Service webpage [www.smn.gov.ar](http://www.smn.gov.ar) along with references regarding the models and database (only in Spanish).

**DIRECTOR NAME :** Celeste Saulo

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Comisión Nacional de Investigaciones Espaciales (CONAE)
Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET)
Departamento de Ciencias de la Atmósfera y los Océanos, facultad de Ciencias Exactas y

Naturales (FCEyN), Universidad de Buenos Aires (UBA)
Centro de Investigaciones del Mar y la Atmósfera (CIMA) CONICET – UBA
Dirección Nacional del Antártico (DNA)
Instituto Nacional del Agua (INA)
Instituto Nacional de Tecnología Agropecuaria (INTA)
Servicio de Hidrografía Naval (SHN)
Servicio Meteorológico de la Armada Argentina (SMARA)
Universidad Católica Argentina (UCA)
Gobierno de la Ciudad Autónoma de Buenos Aires.
Universidad Nacional de la Punta de San Luis (UNP)
Universidad del Litoral (UNL)
Universidad de La Plata
Universidad de Luján
Comisión Nacional de Energía Atómica (CNEA)
Gobierno de las Provincias de Santa Cruz, Mendoza y Tierra del Fuego
Organización Meteorológica Mundial (OMM)
Agencia Espacial Europea (ESA)
Organización de Aviación Civil Internacional (OACI)
Instituto Nacional de Pesquisas Espaciales (INPE) Brasil
National and Oceanic Atmospheric Administration (NOAA)
National Weather Service (NWS) Estados Unidos
Servicio de Meteorología de España
Ecole Nationale de Meteorologie (Francia)
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Centre of Weather Forecasting and Climatic Studies (INPE/CPTEC)
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**ARGENTINE NATIONAL REPORT 2012-2015**  
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**Prague, Czech Republic**

**3.- INSTITUTION**



DEPARTAMENTO DE METEOROLOGÍA DEL  
SERVICIO DE HIDROGRAFÍA NAVAL  
(*Department of Meteorology of the Naval  
Hydrographic Service*)

**MISSION**

Execute and promote studies, education, training and research on marine meteorology and other sciences, related to marine activities that contribute to the scientific and economic development of the country.

The main subjects are research and applications on

- \* waves and storm surges numerical modeling
- \* regional meteorological numerical modeling.
- \* air-sea-sea ice interaction
- \* meteorological and glaciological (sea ice) operational analysis and forecast
- \* marine meteorology
- \* climatology
- \* remote sensing applications

**SPECIFIC ORGANIZATION:**

The Departamento de Meteorología del Servicio de Hidrografía Naval (Navy Meteorological Service, Department of Meteorology of the Naval Hydrographic Service) is a research and

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operational center of the Argentine Navy, focused mainly on atmospheric, marine, computer, climatology and glaciological sciences.

The research and operational activities are performed by a group of researchers, and technicians specialized in atmospheric and marine sciences, computer, climatology, glaciology and geodesy.

The computer equipment included a DELL Power Edge 2850 /Linux server with 2 3.6 Xeon processors, dedicated to the processing of atmospheric, sea state and Antarctic sea ice. An Intranet (Red de Informática Naval (RINA) de la Armada) LAN network and an Internet LAN network of Pcs.

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**ADRESS:** Comodoro Py 2055 Piso 15 1104 CABA.

Institutional researchers subcommittee

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Lic.Manuel H. Picasso (SY) \*\*,Lic.Estela González de Francesca ( prog.)\*\*, Dra. Sandra Barreira (Glaciology)

\*\* : Retired

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#### **4.- INSTITUTION**

DEPARTMENT OF SEISMOLOGY AND METEOROLOGICAL INFORMATION  
(*National University of La Plata, Faculty of Astronomical and Geophysics Sciences*)



#### **MISSION**

Among the different branches of the Astronomy and Geophysics, the main objectives of the Faculty of Astronomical and Geophysics Sciences (FCAGLP) are summarized: to research, teach, and provide scientific-technical support as they are required by other groups, as well as to disseminate research results. According to this, the meteorological activities of the Department of Seismology and Meteorological Information are described in the present report.

Within the scope of the Institution it is the data acquisition, preservation and transferring from “La Plata Observatory” (LPO) meteorological station, and to do research in the area of meteorology.

#### **SPECIFIC ORGANIZATION**

The Department is divided into two specific areas: *Meteorology* and Seismology. To achieve their mission, the first area can be divided into two sections: 1) Technical Area: devoted to permanent data acquisition and archive systems and instruments maintenance, among other activities; and 2) Professional Area: conduct scientific research works, teaching, consulting activities, among others.

Available resources from the Department are:

- Faculty (FCAGLP) Library.
- Local Area Network with Internet Access
- Eight IBM-compatible PC'S
- Standard and automatic meteorological instruments
- Surface meteorological station site
- Permanent technical support provided by the home Institution

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Department staff in Meteorology:

- Total number of researchers with Doctor degree: 1 full-time and 1 part-time
- Total number of technicians: 7 part-time

**DIRECTOR NAME:** Dra Nora Sabbione (PhD. in Fisic)

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**WEB PAGE** <http://www.fcaglp.unlp.edu.ar/deptoSyM/>

Dr. Guillermo Berri (Nm-Din)), Dr. Pablo Luis Antico (Din-Nm)



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**5.- INSTITUTION**

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DE INGENIERIA DEPARTAMENTO DE MECANICA

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Prague, Czech Republic**

**6.- INSTITUTION**

**INSTITUTO DE GEOGRAFÍA “ROMUALDO ARDISSONE”**

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**Prague, Czech Republic**

**7.- INSTITUTION**



**DEPARTAMENTO DE FÍSICA**

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**Prague, Czech Republic**

**8. MEMBERS FROM OTHER INSTITUTION**

Lic. Carlos E. Ereño (Cli): IAI, Inter American Institute

Dra. María Piccolo (Sy): Universidad Nacional del Sur

Dr. Norberto O. García (Sy): Universidad del Litoral

Lic. Leonardo Ariel Serio (Am): Facultad de Agronomía (UBA)

Dra. Gabriel Muller (Din-Nm): Universidad de Concepción del Uruguay



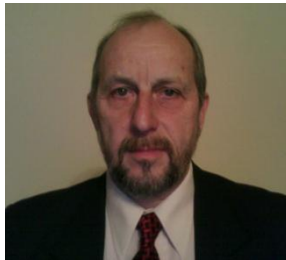
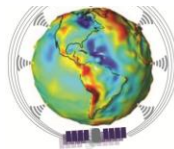
Union Géodésique et Géophysique Internationale  
International Union of Geodesy and Geophysics



International  
Association of  
Geodesy

**National Sub-Committee of the International  
Association of Geodesy**

**Sub-Comité Nacional de la Asociación  
Internacional de Geodesia**



*J. Ricardo Soto*  
**PRESIDENT**



*Rubén Carlos Ramos*  
**SECRETARY**



*Oscar Schvarzer*  
**TREASURER**

The National Committee members work/ed at the following institutions:

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**1.- INSTITUTION:** Instituto Geográfico Nacional

**ASSOCIATION:** IAG

Understood in the establishment, maintenance, updating and improvement of the National Geodetic System and get the basic insular and Antarctic territory of Argentina and permanently updated.



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**2.- INSTITUTION:** Instituto Antártico Argentino

**ASSOCIATION:** IAG

Specialized organization which permanently directs, controls, and performs research and technical- scientific studies linked to the Antarctic Region of Argentina.

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**3.- INSTITUTION:** Universidad de Buenos Aires

**ASSOCIATION:** IAG



The University of Buenos Aires is a public corporation whose purpose is the promotion, dissemination and preservation of culture. It is a community of teachers, students and graduates, who seeks the integral and harmonious formation of its components. Shape researchers, skilled professionals and teachers career.

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**4.- INSTITUTION:** Universidad Nacional de La Plata

**ASSOCIATION:** IAG

The National University of La Plata is an institution with a history of more than a century. This institution is pioneered in studies and cultural, artistic and scientific advanced developments. Teaching, research and extension constitute the cornerstones of this University.



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**Prague, Czech Republic**

**5.- INSTITUTION:** Universidad Nacional de Rosario

**ASSOCIATION:** IAG



The National University of Rosario was created in 1968.  
Is an institution dedicated to the training of professionals.  
Its objectives are acquire, conserve, enhance and critically transmit knowledge, directing its actions to full training of women and men with social commitment.

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**Prague, Czech Republic**

**6.- INSTITUTION:** Universidad Nacional de San Juan

**ASSOCIATION:** IAG



The National University of San Juan was created in 1973.

This institution of college currently consists of five faculties, Engineering; Social Sciences; Philosophy, Humanities and Arts; Architecture and Exact, Physical and Natural Sciences; three junior colleges and a University Central School.

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Prague, Czech Republic**



**7.-INSTITUTION:** Universidad Nacional de Santiago del Estero

**ASSOCIATION:** IAG

The National University of Santiago del Estero was created in 1973.

It is located in the Province of Santiago del Estero, Capital, which is the oldest city in the Argentine Republic, founded in 1553.

This institution has always sought to satisfy the demands of the community that gave it birth. Thus, the races emphasized are those aimed at solving the problems of local social environment oriented technology and social and health problems.

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**ARGENTINE NATIONAL REPORT 2012-2015  
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**8.-INSTITUTION:** Universidad Nacional de Tucumán  
**ASSOCIATION:** IAG



The National University of Tucumán (UNT) is one of the most traditional institutions of higher studies in the country. It was inaugurated in 1914 and nationalized in 1921. Teaching and research are its main objectives.

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Prague, Czech Republic**

**9.- INSTITUTION:** Universidad Nacional de Cuyo

**ASSOCIATION:** IAG

The National University of Cuyo, located in Mendoza, Argentina aims at the development and dissemination of culture in all its forms through education, scientific research, technical training, training and raising the ethical level and aesthetic. It was founded in 1939.

**NAME:**

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Prague, Czech Republic**

**10.- INSTITUTION:** Escuela Superior Técnica Gral. Savio

**ASSOCIATION:** IAG



The Technical College was established on November 4, 1930 by inspiration of the Lieutenant Colonel Manuel Nicolas Savio. The name " Technical College " is inspired by the Ecole Polytechnique in France, with a strong general education as a foundation for future practice.

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Prague, Czech Republic**



**11.- INSTITUTION:** Servicio de Hidrografía Naval

**ASSOCIATION:** IAG

The Naval Hydrographic Service provides the public service of boating safety through:

Editing charts, sailing directions, lists of lighthouses and navigational aids, tide tables, nautical almanac, and other nautical publications according to international standards. Hydrographic surveys and technical studies aimed to increase awareness of maritime domain.

The continuous updating of news for navigation through Notices to Mariners.

The preparation of sea forecasts and wave heights: • Determining and advice on maritime and nautical instruments signaling. • Media management information support services offered.

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**ARGENTINE NATIONAL REPORT 2012-2015  
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Prague, Czech Republic**

**12.- INSTITUTION:** Deutsches Geodätisches Forschungsinstitut (DGFI)

**ASSOCIATION:** IAG



The DGFI has a history of more than six decades, and it is the largest purely geodetic research institution in Germany.

The institute will presume its internationally recognised geodetic basic research from now on under its new official name Deutsches Geodätisches Forschungsinstitut der Technischen Universität München (DGFI-TUM).

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**Prague, Czech Republic**

**13.- INSTITUTION:** Bureau International des Poids et Mesures (BIPM)  
Time Department

**ASSOCIATION:** IAG



Its objectives are:

To establish and maintain appropriate reference standards for use as the number of key international comparisons at the highest level.

To coordinate international comparisons of national measurement standards through the Consultative Committees of the CIPM; taking the role of coordinating laboratory for selected comparisons of the highest priority and undertaking the scientific work necessary to enable this to be done.

To provide selected calibrations for Member States.

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**ARGENTINE NATIONAL REPORT 2012-2015  
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Prague, Czech Republic**

**14.- INSTITUTION:** University of Memphis

**ASSOCIATION:** IAG

The University of Memphis is a comprehensive doctoral- extensive institution of higher learning.

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Prague, Czech Republic**

**15.- YPF**

**ASSOCIATION: IAG**

YPF is the leading oil company in Argentina.



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Union Géodésique et Géophysique Internationale  
International Union of Geodesy and Geophysics



Comité Nacional

**Sub-Comité Nacional de la Asociación Internacional  
para las Ciencias Físicas del Océano**

**National Committee of the International  
Association for the Physical Sciences of the Oceans**



*Claudia G. Simionato*  
PRESIDENT (2012-2016)



*Martín Saraceno*  
SECRETARY (2012-2016)



*Guadalupe Alonso*  
CO-SECRETARY (2012-2016)

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**Prague, Czech Republic**

**Centre, Institute, University, etc.**

<b>1.</b>	CENPAT: Centro Nacional Patagónico, CONICET <i>(National Patagonic Center)</i>	96
<b>2.</b>	Centro de Investigaciones del Mar y la Atmósfera (CIMA / CONICET-UBA)	98
<b>3.</b>	Dirección de Investigaciones de la Armada (DIIV)	101
<b>4.</b>	Instituto Antártico Argentino (IAA)	104
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<b>6.</b>	Instituto Nacional de Investigaciones Pesqueras (INIDEP)	110
<b>7.</b>	Servicio de Hidrografía Naval (SHN)	112

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**ASSOCIATION: IAPSO**

**1.- INSTITUTION:**



**Centro Nacional Patagónico - CENPAT -**

*– National Patagonia Centre –*

**Mission:**

- To promote the generation of scientific and technological knowledge in terms of environmental, socioeconomic and cultural issues through interdisciplinary work and critical thinking.
- To encourage appreciation and respect for history, cultural diversity and biodiversity.
- To contribute to the creation of knowledge, training of human resources, socialization and knowledge transfer to the wider community and cooperation with governmental and non-governmental organizations working for the common good.

**NAME:**

Members of IAPSO that worked at this institution during the period 2011-2014:

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Andrés Luján RIVAS	<a href="mailto:andres@cenpat-conicet.gob.ar">andres@cenpat-conicet.gob.ar</a>

**FIELD WORK:**

ESTEVES, José Luis	PhD in Oceanology Marine Chemistry. Water Pollution.
PISONI, Juan Pablo	PhD in Oceanography Physical Oceanography
RIVAS, Andrés	MD in Oceanography Physical Oceanography



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**Prague, Czech Republic**

**ASSOCIATION:** IAPSO

**2.- INSTITUTION:**



**Centro de Investigaciones del Mar y la Atmósfera**  
(CIMA / CONICET-UBA)

– (*Centre for Oceanic and Atmospheric Research*) –

**Mission:** CIMA (Centre for Oceanic and Atmospheric Research), is an institution supported by CONICET (National Council for Scientific and Technological Research of Argentina) and UBA (University of Buenos Aires). It is located at the University of Buenos Aires main building, close to the Department of Atmospheric and Oceanic Sciences not far from downtown.

Research activities at CIMA are mainly focused on Climate Modelling, Climate Regional Variability, Regional Effects of Anthropogenesis Effects on Climate, Shelf Seas Modelling and Dynamics, Numerical Weather Forecast and Climate Change. CIMA is the main, probably the only, research centre of Argentina fully devoted to atmosphere and ocean modelling.

**NAME:** Dr. Claudia G. Simionato Deputy Director since 2010

Members of IAPSO that worked at this institution during the period 2011-2015:

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**Prague, Czech Republic**

**FIELD WORK:**

- SIMIONATO, Claudia G.    PhD in Physical Oceanography  
Physical processes in the Río de la Plata Estuary and the  
Continental Shelf.  
Numerical modeling, data observation and data analysis in  
physical oceanography.
- SARACENO, Martín        PhD in Physics. Research Scientist.  
Ocean Dynamics.  
Remote sensing; ocean circulation; data observation and  
analysis of ocean data.
- MOREIRA, Diego         PhD Student.  
Numerical Modelling and Data Analysis in Physical  
Oceanography
- FRANCO, Bárbara        PhD in Oceanography  
Numerical modelling of particle dispersion in the ocean
- LUZ CLARA TEJEDOR,    Postdoctoral fellow.  
Maira                     Physical Oceanography
- FERRARI, Ramiro        Postdoctoral fellow.  
Physical Oceanography
- RUIZ ETCHEVERRRY,    PhD Student  
Laura                     Remote sensing; ocean circulation; data observation and  
analysis of ocean data.

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**ASSOCIATION: IAPSO**

**3.- INSTITUTION:**



**Dirección de Investigación de la Armada  
(DIIV)**

*(Argentinean Navy Research Office)*

**División Acústica Submarina**

*(Underwater Sound Division)*

Previously, till March 2011, this institute's name was Naval Service of Research and Development (Servicio Naval de Investigación y Desarrollo).

Mission: DIIV's general objective is to conduct Research Projects related to maritime interests. Its Underwater Sound Division is the one that is related to the International Association for the Physical Sciences of the Oceans –IAPSO–, due to its research fields of interest.

Sound Propagation in a variable medium like the ocean, as well as its interaction with the boundaries (sea-surface and seabed) and the biologic organisms, suspended particles, bubbles, submarine vehicles, etc. that are present in its volume, is a relevant area of research in Oceanography. Therefore, it turns out to be within the scope of Physical Oceanography.

**NAME:** Silvia BLANC –Underwater Sound Division -Head-, since 1<sup>st</sup> April 2010.

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Undergraduate students and other collaborators of the Underwater Sound Division of this institution that are not yet Members of IAPSO:

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**FIELD WORK:**

BAQUÉS, Michèle	M in Sc. in Oceanography. PhD Student. Acoustical Oceanography. Volume scattering by zooplankton.
BLANC, Silvia	M in Sc. in Physics Acoustical Oceanography. Volume Scattering. Bottom acoustics interaction.
BOS, Patricio	M in Sc. in Electronic Engineering.
CINQUINI, Mariano	M in Sc. in Electronic Engineering.
GONZÁLEZ, Juan D.	M in Sc. in Mathematics. PhD Student.
ISBERT PERLENDER, Hernán	M in Sc. in Engineering and Oceanography. PhD Student.
LAVIA, Edmundo	M in Sc. in Physics. PhD Student.
PRARIO, Igor	Magister in Physics. PhD Student. Physics. Acoustical Oceanography.
SALVADORES, Silvia	M in Sc. in Physics Acoustic propagation modelling. Numerical simulation.

MARQUES ROJO, Rui	Electronic Engineering; Undergraduate Student Signal Processing. Modelling.
MEDINA, Martín	Computing Sciences: Undergraduate Student Codes implementation.
TOLIVIA, Tolvía	PhD in Biology Phycology.

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**Prague, Czech Republic**

**ASSOCIATION:** IAPSO

**4.- INSTITUTION:**



**Instituto Antártico Argentino**

*– Argentinean Antarctic Institute –*

**Mission:** The Argentinean Antarctic Institute (IAA) was created on April 17, 1951, making true one of the fundamental pillars dreamed by Cnel.Hernán Pujato for enhancing and extending the Argentinean presence in the Antarctic. At that time the IAA became the first scientific organization exclusively devoted to Antarctic matters and it preceded the Antarctic Treaty signature as well as the creation of the Scientific Committee on Antarctic Research (SCAR). It centralizes the planification, coordination and control of Argentinean scientific activities in Antarctica.

**NAMES:** Members of CNIAPSO that work at this institution:

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**FIELD WORK:**

FERREYRA, Gustavo Biological Oceanography – UV and Climate change effects on plankton communities – Ocean acidification (a través del Programa RAICES-ANPCYT)

SCHLOSS, Irene Ruth Biological Oceanography - Antarctic Food Webs, Climate Change – Physical-Biological Coupling – Plankton ecology

TOSSONOTTO, Gabriela Antarctic Oceanography



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**Prague, Czech Republic**

**ASSOCIATION:** IAPSO

**5.- INSTITUTION:**



Instituto Argentino de Oceanografía - IADO -

*Argentinean Institute of Oceanography –*

**Mission:** To promote the development of scientific research on the Argentine sea and its resources (Studies on the Argentina continental shelf, coastal and continental slope).

Contribute to the training of researchers and technicians in Oceanography.

To promote the study of oceanography.

Provide advice to government and private institutions on issues relating to the sea and coasts.

To develop and implement plans and programs with other institutions related to oceanography issues.

Collect all possible information on Argentine maritime space, promote surveys, observations and analysis in oceanography research.

Give seminars and special courses in their areas of competence and cooperate with other institutions.

Cooperate with educational institutions and other organizations for the development of oceanographic studies and the wider knowledge of the Argentine sea and its resources.

Provide advice to other state or private organizations, in matters or issues related to the specific purposes of the Institute.

**NAMES:** Members of CNIAPSO that work at this institution and at the National Southern University\*, having a fluid interaction with researchers from IADO:

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**FIELD WORK:**

ALIOTTA, Salvador	Marine Geology
ANDRADE, J. Santiago	Oceanography
ANGELES, Guillermo	Oceanography
BEIGT, Débora	Geomorphology. Estuaries and coasts dynamics.
BHON, Vanessa Yael	Physical Oceanography.
CALO, Jorge*	Oceanography
CAMPO de Alicia*	FERRERAS, Physical Geography
CARBONE, M. Elizabeth	Geomorphology. Estuaries and coasts dynamics.
CERVELLINI, Patricia	Marine Biology
CUADRADO, Diana	Marine Geology. Sediments transport.
DIEZ, Paula G.	Marine Geology. Coastal management. Sediments transport.
ELIAS, Fernanda	Marine Biology
FEDERICI, Gisela	Physical Oceanography. Sediments transport.
GARIBOTTI, Emilio	Marine Biology
GELÓS, Eduardo	Marine Geology.
GINSBERG, Silvia Susana	Oceanography. Marine Geology.
GÓMEZ, Eduardo A.	Oceanography. Marine Geology.
LISAZOAIN, Guillermo	Oceanography. Marine Geology.
MARASCHIN, Silvio	Oceanography. Marine Physics
MARCOS, Ángel*	Oceanography
MARCOVECCHIO, Jorge	Marine Chemistry.
MARINI, M. Fabián	Physical Oceanography.
MELO, Walter D.	Physical Oceanography. Digital Cartography.
MINKOFF, Darío R.	Physical Oceanography.

NATALI, Mariano	Physical Oceanography.
PALMA, Elbio	Physics. Marine Physics
PÉREZ, Daniel*	Marine Physics
PERILLO, Gerardo, M. E.	Physical Oceanography.
PICCOLO, María Cintia	Physical Oceanography.
PIERINI, Jorge, O.	Physical Oceanography.
SCHILLIZI, Roberto	Marine Geology.
SPAGNUOLO, Jorge	Geology.

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**Prague, Czech Republic**

**ASSOCIATION:** IAPSO

**6.- INSTITUTION:**



**Instituto Nacional de Investigaciones Pesqueras (INIDEP)**

*– National Institute for Fisheries Research and Development –*

**Mission:** It is in charge of formulating, executing and controlling the research projects on fisheries' prospecting, evaluation and developing of aquaculture technologies, fishing arts, technological processes and fishery economy, according to the guides and priorities set by the corresponding authorities.

**NAMES:** Members of IAPSO that work at this institution during the period 2011-2014:

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**FIELD WORK:**

ÁLVAREZ COLOMBO, Gustavo Luis	PhD in Biology Underwater Acoustics
CABREIRA, Ariel	MD in Biology Underwater Acoustics
GUERRERO, Raúl	MD in Biology Physical Oceanography
MADIROLAS, Adrián	MD in Engineering Underwater Acoustics

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**Prague, Czech Republic**

**ASSOCIATION:** IAPSO

**7.- INSTITUTION:**



**Servicio de Hidrografía Naval - SHN -**

– *Hydrographic Naval Service* –

Department of Oceanography

**Mission:** The mission of the Oceanography Department is to carry out and encourage studies, explorations, works and investigations about physical oceanography, marine geology, geophysics and chemistry and any other ocean science related to maritime activities that contribute to the economical and scientific development of the country, functioning as a research centre of ocean sciences.

**3.- NAMES:** Members of CNIAPSO that work at this institution:

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**FIELD WORK:**

ALONSO, Guadalupe	Physical Oceanography
BALESTRINI, Carlos	Physical Oceanography.
BIANCHI, Alejandro A.	Physical Oceanography.
CAVALLOTTO, José Luis	Coastal and Marine Geology.
CHARO, Marcela	Regional oceanography and western boundary currents. Processing of ocean colour images (SEAWIFS) and hydrographic data (CTD, XBT) design; Data Bases updating.
DRAGANI, Walter C.	Physical Oceanography.
FIORE, Mónica	Tides.
PATTERLINI, Marcelo	Marine Geophysics
PIOLA, Alberto R.	Physical Oceanography
REYNOSO PERALTA, Walter L.	Marine Geophysics and Geology, Geomorphology, Seafloor Characterisation and Ocean Bathymetry.
ROMERO, Silvia Inés	Ocean Colour - River Plumes - Oceanic Fronts - Biophysical Interactions
TROISI, Ariel	Physical Oceanography
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Union Géodésique et Géophysique Internationale  
International Union of Geodesy and Geophysics



International Association of  
Seismology and Physics of  
the Earth's Interior (IASPEI)

**Sub Comité Nacional  
de la Asociación Internacional de Sismología y  
Física del Interior Terrestre**

**National Sub Committee  
of the International Association of Seismology and  
Physics of the Earth's Interior**



*Nora Cristina Sabbione*  
PRESIDENT 2011- 2015



*Patricia Alvarado*  
SECRETARY



*Patricia M. Gauzellino*  
CO-SECRETARY

*Silvina Nacif*  
TREASURER

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**Prague, Czech Republic**

- *Currently, the Argentinean National Committee of IASPEI (CNIASPEI) has 33 Members whose nationality is Argentinean.*
- *Most of them carried their research work on Seismology, Applied Geophysics and related sciences at different national institutes, centres, laboratories and universities.*
- *Some of them are temporarily abroad, working at foreign institutes, centres, laboratories and universities.*
- *The present National Report has been organised in order to present the institutions and researchers.*

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**ARGENTINE NATIONAL REPORT 2012-2015**  
**XXVI IUGG GENERAL ASSEMBLY**  
**Prague, Czech Republic**



**ASSOCIATION : IAHS**

**6.-INSTITUTION:** Instituto Superior de Estudios Ambientales. Instituto Superior de Recursos Hídricos. Facultad de Ciencias Exactas Físicas y Naturales. Universidad Nacional de Córdoba

*Training in the basic sciences of sufficient engineering how to deal with the study of any of the activities of the hydraulic engineering and civil.*

**FIELD WORK** Hydrology, hydraulics, hydrometeorology

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**Prague, Czech Republic**



**ASSOCIATION : IAHS**

**7.-INSTITUTION :** Centro de Ecología Aplicada del Litoral. Consejo Nacional de Investigaciones Científicas y Técnicas

*He studied basis for knowledge of natural resources in particular wetlands and other ecosystems of the Plata Basin*

**FIELD WORK** Ríos, Lagos, humedales, limnología

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