

Second Circular

7th IAGA/ICMA/CAWSES Workshop on Long-Term Changes and Trends in the Atmosphere

11-14 September, 2012
Buenos Aires, Argentina

www1.herrera.unt.edu.ar/faceyt/trends2012/





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The 7th IAGA/ICMA/CAWSES International Workshop on “Long-Term Changes and Trends in the Atmosphere” will be held in Buenos Aires, Argentina, during September 11-14, 2012. Buenos Aires is the capital of Argentina located in South America, on the shore of the Rio de la Plata. Organizing Committees of the workshop cordially invites you to participate and submit your research work. This workshop is 7th in a series of workshops organized by the IAGA Working Group I.I.F on TRENDS in association with ICMA (IAMAS) and CAWSES.

- **Host City**

This workshop is organized in the beautiful city of Buenos Aires; a cosmopolitan city and a top tourist destination, known for its European style architecture and rich cultural life. The city, with 3 million habitants, has 48 neighborhoods. In each one there are bars, squares, football and other sports fields, temples, "milongas" and theatres, but the most visited zones are Puerto Madero, San Telmo, Recoleta, Palermo, La Boca, and the downtown avenues. Buenos Aires is one of the main cultural poles of the continent. It is recognized by the variety and quality of cultural events, museums and exciting exhibitions and collections. Tango, music and dance, can be met at the most sophisticated "tanguerias" or the popular "milongas". With plenty of restaurants, eating in Buenos Aires is a question of choosing where and what, from the typical "asado" to foods of the several communities that settled in the city during centuries of immigration. Another feature that attracts locals and visitors alike is shopping, with exhibitions, open-air commercial circuits and shopping malls. The transport system in Buenos Aires has multiple options: subways (subtes), buses, train, and taxis. You can also ride alone and on foot or with expert guides on stories and details; you can dedicate months to Buenos Aires or learn the essentials in a few days, even experience Buenos Aires in just 24 hours; you can leave with the desire to return again.

- **Important Dates**

(The previous deadline of June 25 has been postponed to June 30 for Abstract Submission only)

Deadline for Abstract Submission:	June 30, 2012
Deadline for Financial Support Application:	June 25, 2012
Decision about Financial Support:	July 10, 2012
Communication of Abstract Acceptance:	July 10, 2012

- **Workshop Website**

www1.herrera.unt.edu.ar/faceyt/trends2012/

- **Host Institute**

University of CEMA, UCEMA
(CEMA: Centro de Estudios Macroeconómicos de Argentina – Center of Macroeconomic Studies of Argentina)
Reconquista 775, C1054AAP, Ciudad de Buenos Aires, Argentina
<http://www.ucema.edu.ar/>

- **Venue**

The workshop will be held at the University of CEMA (UCEMA, www.ucema.edu.ar), Buenos Aires, Argentina, during September 11-14, 2012. The UCEMA is located in the downtown of the city: Reconquista 775, close to the intersection of Cordoba and Leandro Alem avenues. Its location, right in the heart of the city, allows quick and direct access from every point of Buenos Aires city.



UCEMA building of Reconquista 775, located in downtown Buenos Aires, at the heart of the financial and cultural activity of the country

- **Organizers**

Scientific Organizing Committee

Gufran Beig, *India* (beig@tropmet.res.in) -Chairman
Jan Lastovicka, *Czech Republic* (jla@ufa.cas.cz)
Dan Marsh, *USA* (marsh@ucar.edu)
John Emmert, *USA* (john.emmert@nrl.navy.mil)
Christoph Jacobi, *Germany* (jacobi@rz.uni-leipzig.de)
Liyang Qian, *USA* (lqian@ucar.edu)
Ana G. Elias, *Argentina* (aelias@herrera.unt.edu.ar) -Convener

Local Organizing Committee (LOC)

Ana G. Elias, CONICET, FACEyT-UNT, *Argentina* (aelias@herrera.unt.edu.ar)
Marta Zossi, CONICET, FACEyT-UNT, *Argentina* (mzossi@herrera.unt.edu.ar)
Teresita Heredia, FACEyT-UNT, *Argentina* (theredia@herrera.unt.edu.ar)
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- **Local Contact**

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- **Workshop Focus**

Long-term changes in Earth's atmosphere are becoming more and more relevant to the future of our world and it is paramount that we quantify and understand changes occurring at all levels within the coupled atmospheric system. The increasing concentration of greenhouse gases, stratospheric ozone depletion, varying solar and geomagnetic activity, secular change of Earth's magnetic field, and changing dynamics propagating up from the troposphere are some of the possible causes of long-term changes in the stratosphere, mesosphere, thermosphere and ionosphere. The goals of this workshop are to review the current state of knowledge about trends in these atmospheric regions, and to discuss what research is necessary for resolving inconsistencies, reducing uncertainties, and achieving a deeper understanding of middle and upper atmospheric climate change - especially the relative influences of anthropogenic and solar effects.

- **Call for Abstract**

Abstracts are invited under the following themes of the conference. Both oral & poster presentations are welcome. The abstract submission is now open & will close on June 30, 2012. Organizing committee welcome scientists from all around the world, to submit an abstract related to one of the conference themes listed below.

1. New insight from satellite data (e.g., TIMED, OMI, etc.) and international collaborations (e.g., NDMC, CAWSES Activities, etc.)
2. New statistical approaches in trend detection: nonlinearities, discontinuities, and uncertainties
3. Gravity waves and changing climate
4. Influence of tropospheric and stratospheric trends on upper atmospheric climate
5. Drivers of trends and trends in middle and upper atmospheric dynamical parameters
6. Emerging trends in the mesosphere, including NLC/PMCs
7. Attribution of trends in the thermosphere and ionosphere (including trends in irregularities and turbulence) to anthropogenic forcing, geomagnetism, and solar climate
8. Whole-atmosphere climate change: Impacts, adaptation, mitigation, and geo-engineering

We also welcome papers using all types of observational techniques to determine the long-term changes and trends that have occurred in the past and also to determine the processes behind those changes. We also welcome contributions which consider the availability, quality and acquisition of various data sets which may be exploited for trend studies, and statistical methods for deriving and validating those trends. Interpretation and attribution of observational results depends heavily on theoretical models and numerical simulations of the trends, and presentations dealing with these topics are particularly welcome. While the troposphere is not the main focus of the workshop, it is clear that it has a major role to play in middle and upper atmosphere trends; papers that demonstrate this relevance are also welcome.

❖ **Submission Information**

Abstract submission should be made by e-mail to any of the following e-mails:

aelias@herrera.unt.edu.ar or anagelias@yahoo.com

While sending the abstract e-mail, write “TREND 2012 Abstract” in the Subject

Acceptance Intimation will be made by July 10, 2012.

❖ **Abstract Format**

The requested abstract file format is a Word document (.doc). Times New Roman and 12 letter size, and left-justification are recommended.

The abstracts should be prepared in the following format:

*ABSTRACT TITLE IN CAPITAL LETTERS, left justified and leave a blank line after this.

*Name(s) of Author(s): Left justified, the First Name and the Last (Family) Name of the Author WHO WILL PRESENT THE PAPER should be in capital letters.

*Affiliation(s) of the Author(s). In case of multiple affiliations, the number that corresponds to the proper affiliation should be shown after each name. Leave a blank line after the last affiliation.

*Text of Abstract: Left justified, do not indent paragraphs, single line spacing, Below the abstract leave a blank line.

*Please provide the following information (in the same abstract Word file, after the abstract text):

1. Keywords (1–3)
2. Name, address and e-mail of the corresponding author
3. Type of presentation preferred (oral or poster)
4. Are you applying for a financial support? YES or NO

● **Registration Information**

All participants should register by filling in the personal details of the Registration Form, available at workshop website: <http://www1.herrera.unt.edu.ar/faceyt/trends2012/>

E-mail the filled Registration Form to: aelias@herrera.unt.edu.ar or anagelias@yahoo.com

The registration process is finished once you receive a confirmation mail.

● **Registration Fee:**

Category	Registration Fee
Regular participant	170 U\$S
Young Scientist	120 U\$S
Students	120 U\$S
Accompanying Person	100 U\$S

- ❖ The registration fee must be paid at the Workshop. It can be paid in US dollars (US\$) or the equivalent in Argentine pesos (\$). Approximately 1 US\$ = 4.50 \$, but it can fluctuate.
- ❖ Registration fee for workshop participants (regular and young scientist/student) include: participation in all sessions, conference folder with printed Programme Book including Abstracts, welcome dinner with tango show on Tuesday night, and a city tour on Thursday afternoon.
- ❖ Category of young scientists and students has an age limit: 35 years (Age varification should be certified by supervisor)

• Financial Support

We strongly encourage the applicant to secure the financial support from national /institutional resources. However, partial travel grants will be provided to support participation of students, early career scientists, scientists from developing countries or scientists from a country whose economy is in transition. These scientists must submit the abstract as lead author. All grant requests should be accompanied by a short Curriculum Vitae (max 2 page) indicating the scientific motivation and expected benefits. Successful applicants will be notified on the result of the selection process by early July 2012. Request for grant should be send to the Local Organizing Committee by e-mail to:

aelias@herrera.unt.edu.ar or anagelias@yahoo.com, with the subject: "Trend 2012, application for grant".

• Social Events

- ❖ Tuesday, September 11, 2012 (Evening): Welcome reception dinner with Tango show, included in the Registration Fee.
The dinner and the tango show will take place at "El Viejo Almacen", located in the neighborhood of San Telmo, at the corner of Balcarce and Independencia, renowned as the home of the most traditional tango house and that has preserved the true identity of tango over the years.
Dinner will be served between 8:00 and 10:00 PM at the restaurant. Then, at 10:00 PM, just crossing the street we will move to the Tangueria to watch the Tango Show until 23:30 PM. If you want more details about El Viejo Almacen you can check its website:
<http://www.viejo-almacen.com.ar/ing/index.html>
Transportation to and from El Viejo Almacen has been arranged by the LOC. We will give you more details at the Workshop.
- ❖ Thursday, September 13, 2012 (Afternoon): Site seeing tour to Buenos Aires by Bus, included in the Registration Fee. Duration: 3 hours.
- ❖ Detailed information on guided tours and accompanying persons programs will be available at the Information desk at the Workshop.
For planned tours you can also check with the travel agency Vyoportel mundo (www.vyoportel mundo.com). This agency is located three blocks away (300 meters) from the UCEMA (marked in green in the Hotel map, page 9 of this Circular).

• **Preliminary Scientific Program**

	11 / 09 Tuesday	12 / 09 Wednesday	13 / 09 Thursday	14 / 09 Friday
9:30 - 11:00	Opening of the Workshop & Welcome words & Session 1	Session 5	Session 9	Session 11
11:00 - 11:30	Coffee Break			
11:30 - 13:00	Session 2	Session 6	Session 10	Session 12 & Announcement of 8th Trend Workshop & Closing Ceremony
13:00 - 14:30	Lunch			
14:30 - 16:00	Session 3 & Poster Session	Session 7 & Poster Session	City Tour	
16:00 - 16:30	Coffee Break			
16:30 - 18:00	Session 4	Session 8 & Working Groups Discussions		
20:00 - 23:30	Welcome Dinner & Tango Show at El Viejo Almacén			

• **Previous Workshops on TRENDS**

- ❖ 1999, Pune, India
- ❖ 2001, Prague, Czech Republic
- ❖ 2004, Sozopol, Bulgaria
- ❖ 2006, Sodankyla, Finland
- ❖ 2008, Saint Petersburg, Russia
- ❖ 2010, Boulder, Colorado, USA

• Useful Information

❖ Lunch during the Workshop

Lunch will be served at the Cafeteria of the UCEMA between 13:00 and 14:30, and will cost around 65.00 Argentine \$, that is 14.50 U\$\$. It includes starter, main course and dessert (it is very likely that it will include beverage and coffee too).

❖ Transportation from the Airport

From the International Airport in Buenos Aires, Ezeiza, to the downtown, you can go by car or by bus. Official transport services are Manuel Tienda Leon and Aerobus Ezeiza which cost 10 U\$S-15 U\$S by bus, and around 55 U\$S by car. For more information please check the following websites: <http://www.tiendaleon.com.ar/home/home.asp>, <http://www.aerobusezeiza.com.ar/ing/>, <http://www.aa2000.com.ar/buses.aspx>

Among the urban buses, lines 86 and 8 (around 1.00 U\$S) leaves you close to the downtown. The travel agency Voyporelundo will also offer this kind of transportation. More information will be available soon at the Workshop website.

❖ Weather

The climate of Buenos Aires is mild all year round. The mean annual temperature is 18° C (~64° F), making extremely hot and cold days very infrequent. Thus, visitors can enjoy walking around the city in any season.

The week of the Workshop is the second last week of winter, so it is very close to the beginning of spring in the Southern Hemisphere (September 21). We can have then characteristics of both seasons. In winter, cold is moderate during the day, but temperature considerably drops at night. During spring, rains are more frequent, but they are mild or last a short time. Days are sunny, mornings are slightly cold; the temperature rises at midday and drops again at night.

For September the average high temperature is 19°C (66°F), and the average low: 10°C (50°F).

❖ Visa requirements

The following site is a link to Visa Requirements of Argentina:

<http://www.migraciones.gov.ar/accesibleingles/?visas>

However, we strongly suggest to check at your consulate country about the documentation needed to enter Argentina.

In the site link you should check the first column (Regular Passport – Tourist) (“No Requiere Visa” = Do not need Visa; “Requiere Visa” = Need Visa)

If you need an Invitation Letter, please contact Ana G. Elias (aelias@herrera.unt.edu.ar or anagelias@yahoo.com)

Countries of the European Union, for example, do not need visa to enter Argentina.

Some of the countries which need visa are: Burkina Faso, China, Egypt, Filipines, India, Indonesia, Nigeria.

❖ Units of measure and electricity

Argentina uses the metric system for measurements and Celsius for temperatures.

The electric power supply is 220 V/ 50 Hz. If your device doesn't accept 220 V and 50 Hz you will need to use a voltage converter.

❖ Other

The UCEMA is very close (2 block ≈ 200 meters) to “Galerias Pacifico”, one of the most elegant shopping malls in Argentina. It was declared National Historic Monument due to the undeniable artistic value of its architecture and its striking murals. It is situated in the corner of Florida street and Cordoba avenue and it possesses over 150 stores and a food court with many different culinary proposals.

- **Hotels**

The area of the UCEMA, is full of hotels of all categories.

Following is a list of a few hotels which are close to the UCEMA, where the Workshop will take place, with their address and special prices for Workshop participants.

In order to get these prices you should mention that you are a participant of the Workshop.

In the case of Esplendor Buenos Aires and Dazzler Hotels, please send a mail to corporativo@fenhoteles.com for room reservation.

The official website of each hotel appears in the Workshop website.

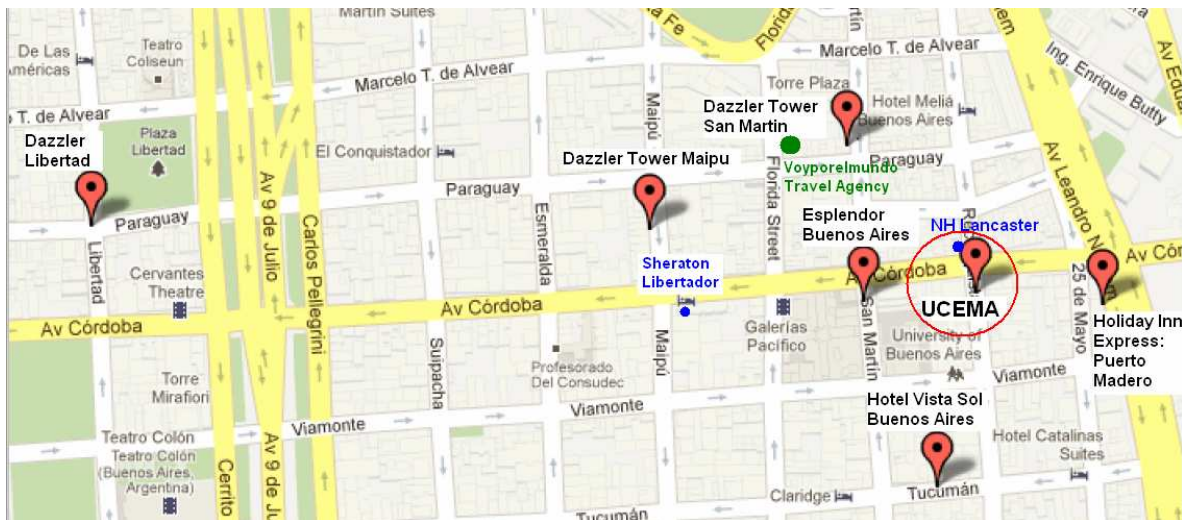
Note that all prices are for double occupancy, breakfast and taxes included.

Hotel	Address	Distance from UCEMA	Price for double or single occupancy (breakfast & taxes included)
Esplendor Buenos Aires	San Martín 780	1 block (≈ 100 meters)	121.00 U\$S
Dazzler Tower San Martín	San Martín 920	2 blocks (≈ 200 meters)	115.00 U\$S
Dazzler Tower Maipú	Maipú 856	3 and a half blocks (≈ 350 meters)	105.00 U\$S
Dazzler Libertad	Libertad 902	9 blocks (≈ 900 meters)	87.00 U\$S 97.00 U\$S
Hotel Vista Sol Buenos Aires	Tucumán, 451	2 blocks(≈ 200 meters)	127.00 U\$S
Holiday Inn Express: Puerto Madero	Avenida Leandro Alem 770	1 and a half blocks (≈ 150 meters)	180.00 U\$S

We suggest also two other hotels very close to the UCEMA which are:

* NH Lancaster, Av. Córdoba 405, 170 U\$S (breakfast and taxes included) (blue dot in the map)

* Sheraton Libertador, Av. Córdoba 690, 210 U\$S (without breakfast but with taxes included; for breakfast add 20 U\$S) (blue dots in the map)



Map showing the hotels, together with the Workshop place (UCEMA, Reconquista 775).

- **Tours offered by Voyporelundo (Lloyd Transatlántico SRL) travel agency** (www.voyporelundo.com)

REGULAR EXCURSIONS

CLASSIC CITY TOUR 25 U\$S

Daily / at: 9:00, 10:15 and 14:00. Duration: 3 hours

We invite you to discover Buenos Aires, beginning at the downtown with the main attractions, 9 de Julio Avenue, the Colon theatre, the Obelisk. We follow to Plaza de Mayo, and then toward the south of the city through San Telmo, its Tanguerías, La Boca neighborhood and Caminito. We continue through Puerto Madero, Palermo and La Recoleta. On Sundays we end at San Telmo to visit the flea market.

VISIT TO DELTA OF TIGRE & COAST LINE TRAIN 36 U\$S

Daily / at: 9:00 and 13:30. Duration: 5 hours

This tour covers the coastal area of the city, beginning at Libertador Avenue, Costanera, Jorge Newberry Airport, and River Plate Football stadium. We pass the Presidential Residence in Olivos, Maipu Train Station, where we will take the train to San Isidro Station and you will be able to explore its attractions. We will continue to the Tigre, where we will navigate. On Sundays we end at San Telmo to visit the flea market.

GAUCHO TOUR AT ESTANCIA SANTA SUSANA 95 U\$S

Departures on Wednesday, Friday, Saturday and Sunday / at: 9:30. Duration: 8 hours

This tour brings you to the “Estancia Santa Susana”, where you will have the opportunity to experience the life of the Gaucho Argentino, and eat an authentic “asado criollo”. Food and beverage included.

PRE AND POST EVENT TOURS

IGUAZU FALLS 3 Days – 2 Nights / 4* Hotels from 751 U\$S

Experience one of the most magnificent natural wonders of the world, immerse yourself in a paradise of rivers, jungle and red earth. The price includes:

- * Air tickets: Buenos Aires-Puerto Iguazú-Buenos Aires
- * Transportation to hotel
- * 2 nights at Hotel Saint George or similar.
- * Excursions: Argentine and Brazilian falls

It does not include tickets to the National Parks.

Price per person, for double occupancy hotel room. Valid between September 8 and 16, 2012.

PERITO MORENO GLACIER 3 Days – 2 Nights / 4* Hotels from 940 U\$S

This Price includes:

- * Airtickets: Buenos Aires-El Calafate - Buenos Aires
- * Transportation to hotel
- * 2 nights at Hotel Altos de Calafate or similar.
- * Excursions: Gateways Perito Moreno glacier and Nautical Safari.

Price per person, for double occupancy hotel room. Valid between September 8 and 16, 2012.

More Tours can be checked with the travel agency and at the official website of Buenos Aires City.

- Sponsors



International Association of Geomagnetism and Aeronomy



International Commission on the Middle Atmosphere



Climate and Weather in the Sun-Earth System



Scientific Committee for Solar-Terrestrial Physics



UCEMA
Universidad del Centro de Estudios Macroeconómicos de Argentina



UNT
Universidad Nacional de Tucumán



Facultad de Ciencias Exactas y Tecnología



Consejo Nacional de Investigaciones Científicas y Técnicas



Agencia Nacional de Promoción Científica y Tecnológica de Argentina



International Centre for Theoretical Physics

