



8th International Conference on Southern Hemisphere Meteorology and Oceanography

PROGRAM (17 April 2006)

Sunday, 23 April 2006

5:00 PM-7:00 PM, Sunday

Conference Registration

Monday, 24 April 2006

7:00 AM, Monday

Conference Registration continues Through Friday 28 April

8:30 AM-10:00 AM, Monday

Session 1-OS1: Monsoon systems and continental rainfall

Chairperson: Rene Garreaud

- 8:30 AM Monthly and annual average of the precipitation estimates for the Mantaro basin (2000-2004) obtained from images of the GOES-12 satellite. Segura Curi, Berlin; Mosquera Vásquez, Kobi; Silva Vidal, Yamina
- 8:45 AM Rainfall estimates on the Altiplano using radar and passive microwave data from TRMM. Blacutt, Luis; Liu, Chuntao; Zipser, Edward
- 9:00 AM Characteristics of the Precipitating Systems during the 2002 Dry-to-Wet RACCI Field Campaign in the Amazon Region. Morales, Carlos Augusto; Machado, Luis Augusto Toledo; Dias, Maria Assunção Faus Silva
- 9:15 AM Radiation, Cloud, and Climate Interactions in SW Amazon during the DRYTOWET/LBA Campaign. Silva Dias, Maria Assunção; and co-authors.
- 9:30 AM Onset and End of the Rainy Season in South America in Observations and the ECHAM 4.5 Atmospheric General Circulation Model. Liebmann, Brant; and co-authors.
- 9:45 AM Monsoon systems and continental rainfall over equatorial Africa. Nicholson, Sharon E.

8:30 AM-10:00 AM, Monday

Session 1-OS2: Role of the SH oceans in climate

Chairperson: Alberto Piola

- 8:30 AM Numerical study of the response of the ocean to a northerly wind-jet in the equatorial eastern Pacific. Mosquera, Kobi
- 8:45 AM 3 Dimensional structure of the eastern South Pacific eddies from surface drifters, satellite altimetry and ARGO profilers. Chaigneau, Alexis; Pizarro, Oscar; Eldin, Gérard
- 9:00 AM The low-frequency variability of the South Atlantic Circulation. Matano, Ricardo P.; Fetter, Antonio.
- 9:15 AM Coupled modes of SST variability in the South Atlantic in the output of numerical model and NCEP reanalysis. Campos, Edmo Jose Dias; de Almeida, Roberto Antonio Ferreira; Haarsma, Reindert Julius; Bleck, Rainer
- 9:30 AM Modelling the variability of the source regions of the Agulhas Current and Inter-Ocean Exchange. Hermes, Juliet; Reason, Chris.
- 9:45 AM Global sea surface height trends from altimeter data. Polito, Paulo Simionatto; Sato, Olga Tiemi.

9:15 AM-10:00 AM, Monday

Session 1-OS3: Atmospheric chemistry in the SH

Chairperson: Roseanne Diab

- 9:15 AM Ozone Formation Potential in the Megacity of São Paulo Martins, Droprinchinski Leila; Andrade, de Fátima Maria
- 9:30 AM The Coupled Aerosol and Tracer Transport model to the Brazilian developments on the Regional Atmospheric Modeling System: Validation using Direct and Remote Sensing Observations. Freitas, Saulo; Longo, Karla; Silva Dias, Maria; Silva Dias, Pedro; Chatfield, Robert
- 9:45 AM Transport of biomass burning products in Southeastern South America and its relationship with the South American Low Level Jet East of the Andes. Longo, Karla; Freitas, Saulo; Ulke, Ana Graciela; Hierro, Rodrigo Federico

10:00 AM-10:30 AM, Monday

Coffee Break

10:30 AM-12:00 PM, Monday

Session 1-OS1: Monsoon systems and continental rainfall

Chairperson: Brant Liebmann

- 10:30 AM Winter rainfall episodes in the central Andes: associated mechanisms. Aceituno; Patricio; Garreaud; René; Falvey; Mark. (Invited)
- 11:00 AM The Diurnal Cycle of Precipitation over South America based on CMORPH. Kousky, Vernon E.; Janowiak, John E.; Joyce, Robert
- 11:15 AM On the Role of Water Vapour Transport from the Tropical Atlantic and Summer Rainfall in Tropical Southern Africa. Vigaud, Nicolas; Rouault, Mathieu; Richard, Yves; Fauchereau, Nicolas
- 11:30 AM Differences between SALLJ and No SALLJ events and its impact on the development of mesoscale convective systems over subtropical South America. Salio, Paola; Nicolini, Matilde; Zipser, Edward J.
- 11:45 AM A SACZ event simulation using MM5 mesoscale model. Santos, Isimar de Azevedo; Justa da Silva, Maria Gertrudes Alvarez; Dereczynski, Claudine Pereira; Coelho, David Garrana.

10:30 AM-12:00 PM, Monday

Session 1-OS2: Role of the SH oceans in climate

Chairperson: Edmo Campos

- 10:30 AM Long-term trend in the oceanic heat storage of the South Atlantic estimated from altimeter and PIRATA data. Sato, Olga Tiemi; Polito, Paulo Simionatto
- 10:45 AM Recent trends in surface wind, temperature and chlorophyll in the Southwest South Atlantic. Piola, Alberto; Zajackovski, Uriel; Martinez Avellaneda, Nidia; Romero, Silvia
- 11:00 AM Variability of the South Atlantic and Indian Oceans and impacts on southern African climate. Reason, Chris (Invited)
- 11:30 AM The Patagonian shelf-break phytoplankton blooms and their relevance for the regional CO₂ budget. Garcia, Virginia M. T.; and co-authors.
- 11:45 AM Simultaneous ocean-atmosphere in situ observations at the Brazil-Malvinas Confluence region. Pezzi, Luciano Ponzi; Souza, Ronald Buss; Lentini, Carlos; Garcia, Carlos; Mata, Mauricio

10:45 AM-12:00 PM, Monday

Session 1-OS3: Atmospheric chemistry in the SH

Chairperson: Saulo Freitas

10:45 AM Southern Africa: a Giant Natural Photochemical Reactor? Diab, Roseanne; Naidoo, Mogesh; Zunckel, Mark; Carter, Warren.

11:00 AM Indonesian smoke emission mitigation by the mpi regional climate model. Aldrian, Edwin; Langmann, Baerbel; Graf, Hans F.; Heil, Angelika

11:15 AM Numerical Air Quality Forecast for Santiago de Chile. Schmitz, Rainer

11:30 AM Numerical modeling for air quality: also a challenge for scientists south of Río Grande. Gallardo, Laura (Invited)

12:00 PM- 1:30 PM, Monday

Lunch Break

1:30 PM-4:00 PM, Monday

Poster Session (Author in Attendance)

PA1: Monsoon systems and continental rainfall

Chairperson: Paola Salio

PA2: Atmospheric chemistry in the SH

Chairperson: Fatima Andrade

PA3: Role of the SH oceans in climate

Chairperson: Luciano Pezzi

4:00 PM-5:30 PM, Monday

Session 1-OS4: Monsoon systems and continental rainfall

Chairperson: Leila V. de Carvalho

4:00 PM Characteristics of wet and dry periods over the South American Altiplano observed during the South American Low Level Jet Experiment (SALLJEX). Falvey, Mark; Garreaud, René

4:15 PM What controls the seasonal and interannual variations of rainfall over the South American monsoon region? Fu, Rong; Li, Wenhong

4:30 PM Anomalies in the South American Monsoon induced by aerosols. Lau, William K. M.; Kim, Kyu-Myong.

4:45 PM Interannual variability of summer rainfall in South America: large-scale influences and the role of antecedent conditions in spring. Grimm, Alice Marlene; Zilli, Marcia Terezinha

5:00 PM Coupled Climate Simulation of the South American Monsoon. Misra, Vasubandhu

5:15 PM Annual cycle and its variability in GCM and Reanalysis driven regional model climatologies for South America. Seth, A.; Rauscher, S.; Camargo, S.; Qian, J-H

4:00 PM-5:15 PM, Monday

Session 1-OS5: Role of the SH oceans in climate

Chairperson: Ricardo Matano

4:00 PM The global influence of the Southern Ocean circulation. Rintoul, Stephen R. (Invited).

4:30 PM Southern hemisphere ocean-atmosphere interaction. Ciasto, Laura M.; Thompson, David W. J.

4:45 PM The South Atlantic Subtropical Front / Current of St. Helena. Juliano, Manuela Fraga; Alves, Mário.

5:00 PM Recent advances in the knowledge of the Río de la Plata estuary circulation, forcings and variability. Simionato, C. G.; Meccia, V. L.; Dragani, W. C.; Nuñez, M.

5:30 PM, Monday, 24 April 2006

Sessions end for the day

6:30 PM-9:00PM, Monday 24 April 2006

Ice Break

Tuesday, 25 April 2006

8:30 AM-10:00 AM, Tuesday

Session 2-OS1: Understanding long-term climate variations in the SH

Chairperson: Ines Camilloni

8:30 AM A global relation for tropical cyclone development. Bye, John Arthur Tristram

8:45 AM The late 1960s global climate shift and its influence on the Southern Hemisphere.
Baines, Peter George.

9:00 AM Precipitation trends in southeastern South America: relationship with ENSO phases.
Doyle, Moira; Barros, Vicente.

9:15 AM Ocean Model Diagnosis of Low Frequency Climate Variability in the South Atlantic.
Colberg, F.; Reason, C. J. C.

9:30 AM Shifts in the Statistics of Daily Rainfall in South America Conditional on ENSO Phase.
Ropelewski, Chester; Bell, Michael.

9:45 AM Looking for climate signals using wavelet transform: extreme temperatures in Argentina, Atlantic sea surface temperature and other related variables. Barrucand, Mariana; Rusticucci, Matilde; Vargas, Walter.

8:30 AM-10:00 AM, Tuesday

Session 2-OS2: Weather Analysis and Forecasting

Chairperson: Marcelo Seluchi

8:30 AM The Influence of Weather Parameters on Malaria outbreaks over Kilimanjaro Region in Tanzania. Mushi, Shamim Twalib

8:45 AM A proposed coordinated science plan for Southern Hemisphere THORPEX. Puri, Kamal; McBride, John L.

9:00 AM Synoptic and mesoscale analysis of Hurricane Catarina, Brazil. Pereira Filho, Augusto José; Lima, Raquel Silva.

9:15 AM Resonantly interacting equatorial waves: a possible explanation for the intraseasonal variability of the atmospheric circulation? Raupp, Carlos Frederico Mendonça; Silva Dias, Pedro Leite; Tabak, Esteban; Milewski, Paul.

9:30 AM Intraseasonal variability of the rainfall in southwestern South America. Garreaud, René; Aceituno, Patricio; Ramos, Isabel.

9:45 AM Predictability of heavy rainfall events over the Serra do Mar. Chou, Sin Chan; Bustamante, Josiane Ferreira; Gomes, Jorge Luís.

8:30 AM-10:00 AM, Tuesday

Session 2-OS3: Monsoon systems and continental rainfall

Chairperson: Celeste Saulo

8:30 AM Coupled Indian Ocean intraseasonal variability. Vecchi, Gabriel A.; Harrison, Matthew; Rosati, Anthony; Song, Qian; Song, Qian; Wittenberg, Andrew.

8:45 AM Changes in the activity of the Madden-Julian oscillation. Jones, Charles; Carvalho, Leila

- 9:00 AM Intraseasonal oscillations and their relation to seasonal mean monsoon over South America. Krishnamurthy, V.; Misra, Vasubandhu.
- 9:15 AM Intraseasonal activity and the sacz episodes during austral summer 2003/2004. Cunningham, Christopher Alexander; Cavalcanti, Iracema F. A.
- 9:30 AM Interannual and intraseasonal variability of extreme precipitation and drought over southern Amazon during the austral summer. Muza, Michel Nobre; Carvalho, Leila Maria Véspoli de.
- 9:45 AM Monsoon variability in Realtion to ENSO nad NAO. Sidram, Dugam Surendra

10:00 AM-10:30 AM, Tuesday

Coffee Break

10:30 AM-12:00 PM, Tuesday

Session 2-OS1: Understanding long-term climate variations in the SH

Chairperson: Tercio Ambrizzi

- 10:30 AM Stochastic approach to describe rainfall climatology and phenomenology over Angola. de Azevedo, Maria Gariela; Lucio, Paulo Sérgio; Molion, Luiz Carlos B.; Ramos, Andréa Malheiro; Conde, Fábio Cunha
- 10:45 AM Air-Sea Interactions in the Subtropical South Atlantic and South Indian Ocean. Huang, Bohua; Shukla, J.
- 11:00 AM Global teleconnection associated with Indian Ocean Dipole events: Observations and IPCC model intercomparison. Tam, Chi-yung Francis; Saji, Njarackalazhikam Hameed; Xie, Shang-Ping; Yamagata, Toshio.
- 11:15 AM Developing Phase of the South Pacific Convergence Zone. Zhang, Suping; Liu, Qinyu.
- 11:30 AM Interannual variability in precipitation over the Southern Hemisphere: What have we learned since 1985? Arkin, Phillip; Sapiano, Matt; Xie, Pingping
- 11:45 AM Transient simulations and empirical reconstructions for the mid-Holocene hydrological climate in southern Patagonia. Wagner, Sebastian; Jones, Julie M.; Widmann, Martin; Mayr, Christoph; Ohlendorf, Christian; Schaebitz, Frank.

10:30 AM-12:00 PM, Tuesday

Session 2-OS2: Weather Analysis and Forecasting

Chairperson: Augusto Pereira Filho

- 10:30 AM A Unified Approach to Weather, Climate, and Earth-System Prediction for the 21st Century. Shapiro, Melvyn A. (Invited).
- 11:00 AM Evaluation of Eta model forecasts during SACZ events. Cerqueira, Fernanda; Dereczynski, Claudine; Chou, Sin Chan.
- 11:15 AM Wind forecast around the Andes using the sloping discretization of the eta coordinate. Mesinger, Fedor; Chou, Sin Chan; Gomes, Jorge L.; Bustamante, Josiane F.
- 11:30 AM The effect of coastal diabatic heating gradients on the dynamics of cold fronts. Muir, Les; Reeder, Michael J.
- 11:45 AM Numerical simulation of a convective storm generating a tornado. Torres Brizuela, Marcela; Nicolini, Matilde

10:30 AM-12:00 PM, Tuesday

Session 2-OS3: Monsoon systems and continental rainfall

Chairperson: Alice Grimm

- 10:30 AM Thermodynamic and kinematic characterization of the low-level troposphere during SALLJEX in different large-scale environments. Nicolini, Matilde; Salio, Paola; Borque, Paloma

- 10:45 AM Role of land surface processes in South American monsoon development. Xue, Yongkang; De Sales, Fernando; Li, W. -P.; Mechoso, C. R.; Nobre, C.; Juang, H. M.
- 11:00 AM The Impact of Land Use changes over the low level circulation related to the Northwestern Argentinean Low. Ferreira, Lorena; Saulo, Celeste; Seluchi, Marcelo.
- 11:15 AM Rainfall regionalization on the Amazon Basin. P., Guillermo O. Obregón; Nobre, Carlos A.
- 11:30 AM On the 2005 drought in the amazon river basin. Souza, Everaldo B.; Senna, Renato C.; Dallarosa, Ricardo L. G.; Gonçalves, Flavio A. V.; Saraiva, Jaci M. B.; Lopes, Jorge L. M.; Kuhn, Paulo A. F.
- 11:45 AM The impact of cumulus and radiation parameterization schemes on Southern Hemisphere summer climate simulated by CPTEC Atmospheric General Circulation Model. Figueroa; Nilo, Silvio; Tarasova; Tatiana; Barbosa; Jorge, Henrique de Melo; Bonatti; Paulo, Jose; Dias, Silva; da, Pedro Leite

12:00 PM- 1:30 PM, Tuesday

Lunch Break

1:30 PM-4:00 PM, Tuesday

Poster Session (Author in Attendance):

PB1: Monsoon systems and continental rainfall

Chairperson: Carlos Morales

PB2: Understanding long-term climate variations in the SH

Chairperson: Moira Doyle

PB3: Weather analysis and forecasting

Chairperson: Chou Sin Chan

4:00 PM-4:30 PM, Tuesday

Plenary Talk

Chairperson: Kevin Trenberth

4:00PM John Kidson's Contribution to Southern Hemisphere Meteorology. Renwick, Jim (Invited)

4:30 PM-5:15 PM, Tuesday

Session 2-OS4: Understanding long-term climate variations in the SH

Chairperson: Alexandre Pezza

4:30 PM Extreme precipitations in Argentina. Re, Mariano; Saurral, Ramiro; Barros, Vicente

4:45 PM The History and Key Results of the Indian Ocean Climate Initiative. Hope, Pandora.

5:00 PM Precipitation variability over South America in many periods of time. Ferraz, Simone; Ambrizzi, Tercio; Rocha, Rosmeri Porfirio; Cuadra, Santiago.

4:00 PM-5:30 PM, Tuesday

Session 2-OS5: Weather Analysis and Forecasting

Chairperson: Matilde Nicolini

4:30 PM The Catarina Event: life cycle of an extremely unusual event in the South Atlantic. Dias, Pedro L. Silva.

- 4:45 PM A Climatology of Cutoff Lows in the Southern Hemisphere. Fuenzalida, Humberto; Sanchez, Rodrigo; Garreaud, René.
- 5:00 PM The structure of three tornado-generating storms based on doppler radar and lightning observations in the state of Sao Paulo. Held, G.; Gomes, A. M.; Naccarato, K. P.; Jr., O. Pinto; Nascimento, E.
- 5:15 PM A regional ensemble forecast system for Southeastern South America: preliminary assessment. Ruiz, Juan José; Saulo, A. Celeste; Kalnay, Eugenia

6:00PM-8:00PM

Special Session on the Future of Weather, Climate and Earth System Modeling in the 21st Century and the Role of Developing Countries

8:00 PM, Tuesday, 25 April 2006

Sessions end for the day

Wednesday, 26 April 2006

8:00 AM-10:00 AM, Wednesday

Session 3-OS1: Climate and Cryosphere of the Antarctic region- Harry Van Loon special session

Chairperson: David Karoly

- 8:00 AM Winter-spring Antarctic sea ice spatial patterns and the associated atmospheric circulation anomalies. Barreira, Sandra; Compagnucci, Rosa
- 8:15 AM Interannual behaviour of the katabatic wind events across the Ross Ice Shelf. Carrasco, Jorge; Bromwich, David H.
- 8:30 AM Sea ice extension around Antarctica: Association with southern Australian rainfall via changes in Southern Hemisphere cyclone and anticyclone behaviour. Durrant, Thomas Hawkins; Pezza, Alexandre Bernandes
- 8:45 AM Transients and the air-sea fluxes in the Antarctic sea ice zone. Simmonds, Ian; Rafter, Anthony; Cowan, Timothy; Watkins, Andrew B.; Keay, Kevin
- 9:00 AM The role of a changing Southern Hemisphere Annular Mode in governing Antarctic Peninsula summer temperatures. Marshall, Gareth; Orr, Andrew; Van Lipzig, Nicole; King, John
- 9:15 AM Warming of the Antarctic troposphere in winter. Turner, John.
- 9:30 AM Intraseasonal to interannual variations in the antarctic oscillation and impacts on extreme temperature and winds in the antarctica peninsula and central chile. Carvalho, Leila Vespoli; Lima, Fabio U.; Tissot, Nathalie B.; Morales, Sebastian
- 9:45 AM Regional variation of Antarctic sea ice associated with atmospheric zonal wave three. Raphael, Marilyn

8:30 AM-10:00 AM, Wednesday

Session 3-OS2: Impacts of land cover and land use changes

Chairperson: German Poveda

- 8:15 AM A climate model simulated impacts of land-use in China on regional climate: An Australia-China bilateral project on climate change. Zhang, Huqiang; Gao, Xuejie; Li, Yaohui
- 8:30 AM Land cover change as an additional forcing to explain the rainfall decline in the South West of Australia. Timbal, Bertrand; Arblaster, Julie
- 8:45 AM Projected Amazonian deforestation in the 21th century and possible regional climatic impacts. Sampaio de Oliveira, Gilvan; Nobre, Carlos; Satyarmurty, Prakki.

- 9:00 AM Numerical simulation of biomass burning emissions and transportation during 1998 Roraima fires. Gevaerd, Rodrigo; Freitas, Saulo; Longo, Karla.
- 9:15 AM Interannual variability of vegetation dynamics in the semi-arid Northeast region of Brazil and its relationship to ENSO events. Barbosa, Humberto Alves.
- 9:30 AM Estimating the probability of fires in Amazonia. Cardoso, Manoel; Sampaio, Gilvan; Nobre, Carlos; Nobre, Carlos; Obregon, Guillermo
- 9:45 AM Simulations of tropical rainforest albedo: Is canopy wetness important? Yanagi, Silvia N. Monteiro; Costa., Marcos Heil

10:00 AM-10:30 AM, Wednesday

Coffee Break

10:30 AM-12:30 PM, Wednesday

Session 3-OS1: Harry Van Loon special session

Chairperson: Gareth Marshall

- 10:30 AM A Decadal Solar Effect in the Tropical/Subtropical Pacific Ocean. Loon, H. van; Meehl, G.; Shea, D. J. (Invited)
- 11:00 AM The tropospheric biennial oscillation and ?biennial ENSO? in observations and coupled models. Meehl, Gerald A.; Arblaster, Julie M.
- 11:15 AM Relationships between the tropical semi-annual oscillation, monsoon onset, and the subtropical jet stream over Australia. Kiladis, George; van Loon, Harry.
- 11:30 AM Standing waves in the Southern Hemisphere. Karoly, David
- 11:45 AM The dynamics of late 20th Century changes in the Southern Hemisphere circulation. Hobbs, Will; Raphael, Marilyn.
- 12:00 AM The South Pacific trough: a crucial component of low-frequency pressure variations that determine ENSO development and strength. Stephens, David; Meuleners, Michael; van Loon, Harry; Lamond, Mal.
- 12:15 AM A Search for Free Rossby Waves and for van Loon's Temperature Variations in the Southern Hemisphere Stratosphere. Madden, Roland A.

12:30 PM, Wednesday, 26 April 2006

Sessions end for the day

8:00 PM, Wednesday, 26 April 2006

Conference Dinner

Thursday, 27 April 2006

8:15 AM-10:00 AM, Thursday,

Session 4-OS1: Climate change in the SH

Chairperson: Matilde Rusticucci

- 8:15 AM Variability and climate change in the Mantaro river basin, central Peruvian Andes. Silva, Y.; Takahashi, K.; Cruz, N.; Trasmonte, G.; Mosquera, K.; Nickl, E.; Chávez, R.; Segura, B.
- 8:30 AM Association between seasonal Australian rainfall and the Southern Annular Mode. Meneghini, Belinda; Simmonds, Ian; Smith, Ian
- 8:45 AM CONCORD and CIRMOUNT: Anticipating the Effects of Global Climate Change. Diaz, Henry F.
- 9:00 AM Role of Monsoon Onset Timing in Past and Future Amazon Climate and Vegetation. Cook, Kerry H.

- 9:15 AM Use of Regional Climate Models in Impacts Assessments and Adaptations Studies From continental to regional and local scales: The CREAS project in South America. Marengo, Jose.
- 9:30 AM Climate Change in the CCSM Southern Hemisphere Oceans. Gent, Peter R.; Bryan, Frank O.
- 9:45 AM Variability of the antarctic oscillation during the twentieth century. Jones, Julie M.; Widmann, Martin.

8:30 AM-10:00 AM, Thursday,**Session 4-OS2: Hydrological variability and modeling****Chairperson:** Hugo Berbery

- 8:30 AM Global warming, the hydrological cycle, and the weakening of the atmospheric circulation. Soden, Brian; Vecchi, Gabriel; Held, Isaac; Leetmaa, Ants
- 8:45 AM Climate Variability and Land Cover Change Impacts on the Water Balance of the Caroní river basin, Venezuela. Cartay, Maria Dolores Delgado; Guenni, Lelys Bravo de.
- 9:00 AM Changes in hydrologic variability and extreme events for the Brazilian Basins. Guetter, Alexandre Kolodynskie.
- 9:15 AM Short-term climate predictability of summer rainfall on the Paraná basin based on Atlantic and Pacific sea surface temperatures. Camilloni, Ines.
- 9:30 AM An analysis of moisture transport across south eastern Australia - results from the Melbourne University Network of Isotopes in Precipitation. Barras, Vaughan; Simmonds, Ian; Etheridge, David
- 9:45 AM Towards improvement of seasonal rainfall forecasting through model output statistics (MOS) downscaling of Echem forecasts over Tanzania. Athumani, Sangalugembe Chuki.

10:00 AM-10:30 AM, Thursday

Coffee Break

10:30 AM-12:00 PM, Thursday**Session 2-OS1: Climate change in the SH****Chairperson:** Jose Marengo

- 10:30 AM Changes in climate and hurricanes. Trenberth, Kevin E (Invited)
- 11:00 AM Trends in total and extreme South American rainfall 1960-2000 and links with sea surface temperature. Haylock, Malcolm R.; Peterson, Thomas C.
- 11:15 AM Detection and attribution of 20th Century of African rainfall change. Hurrell, James W.; Hoerling, Martin.
- 11:30 AM Catarina: the first South Atlantic hurricane and its association with vertical wind shear and mid-to-high latitude blocking. Pezza, Alexandre Bernardes; Simmonds, Ian.
- 11:45 AM Trends in extreme daily rainfall events in La Plata Basin. Penalba, Olga C.; Robledo, Federico A.

11:00 AM-12:00 PM, Thursday**Session 4-OS2: Hydrological variability and modeling****Chairperson:** Olga Penalba

- 11:00 AM Sensitivity of river discharge in Amazonia to deforestation and fluctuations on mean water vapor convergence. D'Almeida, Cassiano; Marengo, José; Vörösmarty, Charles; Hurtt, George; Kiem, Barry; Dingman, Lawrence

- 11:15 AM The effect of precipitation forecasts and monitoring on hourly hydrological statistical prediction models. Leite, Eduardo Alvim; Dias, Nelson Luís; Rotunno Filho, Otto Corrêa.
- 11:30 AM Amazon discharge variability and its relationships with climate: application of wavelet indicators. Ronchail, Josyane; Labat, David; Guyot, Jean-Loup; Filizola, Naziano; Noriega, Luis; Yerren, Jorge; De Oliveira, Eurides
- 11:45 AM Moving water to South America as observed from space. Liu, W. Timothy; Xie, Xiaosu; Tang, Wenqing.

12:00 PM- 1:30 PM, Thursday

Lunch Break

1:30 PM-4:00 PM, Thursday

Poster Session (Author in Attendance):

PC1: Weather analysis and forecasting

Chairperson: Maria Gertrudes Alvarez Justi da Silva

PC2: Harry Van Loon special session, Climate and Cryosphere of the Antarctic region

Chairperson: Marilyn Raphael

PC3: Impacts of land cover and land use changes

Chairperson: Marcos Costa

PC4: Climate change in the SH

Chairperson: Maisa Rojas

4:00 PM-6:30 PM, Thursday

Session 4-OS4: Climate change in the SH

Chairperson: Kerry Cook

- 4:00 PM Changes in extreme temperature return periods over Argentina. Rusticucci, Matilde; Tencer, Bárbara.
- 4:15 PM Climate change and the frequency of El Niño events - impact on wheat yields. Meinke, Holger; Potgieter, Andries; Maia, Aline; Stone, Roger C.; Baethgen, Walter.
- 4:30 PM Sensitivity of S. American monsoon related features to anthropogenic changes in radiative forcing. Rojas, Maisa; Seth, Anji; Rauscher, Sara.
- 4:45 PM Regional climate change experiment over southern South America: Part I: Present climate conditions (1981-1990). Solman, Silvina; Nuñez, Mario; Cabré, María Fernanda
- 5:00 PM RegCM3 simulations nested in the Hadley Center Model over South America: the present day climate. Rocha, Rosmeri Porfirio; Ambrizzi, Tercio; Cuandra, Santiago Vianna; Ferraz, Simone Erotildes Teleginski; Fernandes, Juan Pablo
- 5:15 PM Climate variability in Northeastern Brazil employing harmonic analysis and principal components analysis techniques. Molion, Luiz Carlos Baldicero; Bernardo, Sergio de Oliveira.
- 5:30 PM Southern Hemisphere Response to Anomalous Thermohaline Circulation. Justino, Flavio; Peltier, R. W.
- 5:45 PM Studies in middle atmosphere. Joshi, Indira Sudhir
- 6:00 PM Convergence in downscaled regional climate change projections. Hewitson, Bruce; Crane, Robert

6:15 PM Trends and interdecadal variability of rainfall in Chile. Quintana, Juan; Aceituno, Patricio ORAL INCLUDED BECAUSE IT WAS ACCIDENTALLY OMITTED IN THE PREVIOUS VERSIONS OF THE PROGRAM

4:00 PM-5:30 PM, Thursday

Session 4-OS5: Hydrological variability and modeling

Chairperson: Ronchail, Josyane

- 4:00 PM The La Plata Basin (LPB) Continental Scale Experiment. Berbery, E. H.; Dias, M. Assuncao Silva; Dias, M. Assuncao Silva; the; Group, LPB Implementation Steering.
- 4:30 PM Estimation of Amazon evaporation and validation through the long-term water balance. Salazar, Luis Fernando; Poveda, German. (Invited)
- 5:00 PM Seasonal behavior of water level, soil moisture, vegetation growing, carbon and energy fluxes dynamics on a transition Cerrado/Amazon forest region submitted to seasonal flooding. Martins, Fernanda Sousa; Ribeiro, Rita da Mata; Kurzatkowski, Dariuz; Almeida, Paola Cardoso de; Ribeiro da Rocha, Humberto; Borma, Laura De Simone.
- 5:15 PM Quantitative precipitation estimation for hydrometeorological forecast in Parana, Brazil. Calvetti, Leonardo; Beneti, Cesar; Moreira, Itamar; Jusevicius, Marco; Pereira Filho, Augusto
- 5:30 PM A Global, Very High Resolution Rain Gauge/Satellite Precipitation Analysis System. Janowiak, John; Kousky, Vernon; Joyce, Robert

6:15 PM, Thursday, 27 April 2006

Sessions ends for the day

Friday, 28 April 2006

9:00 AM-10:00 AM, Friday,

Session 5-OS1: Climate predictions

Chairperson: Wassila Thiaw

- 8:45 AM Intra-seasonal climate prediction - linking Weather and Climate Forecasts. Donald; Lexie; Meinke; Holger; Power; Brendan; Wheeler; Matthew; H. N. Maia, de; Aline; white; Neil; Stone; Roger; Ribbe; Joachim.PAPER MOVED TO POSTER
- 9:00 AM Sub-seasonal rainfall statistics from a regional climate model for South America: Does improved resolution add value? Rauscher, Sara; Seth, Anji; Liebmann, Brant; Camargo, Suzana; Qian, Jian-Hua.
- 9:15 AM 5-year Eta Model seasonal forecast climatology over South America. Bustamante, Josiane F.; Gomes, Jorge L.; Chou, Sin Chan.
- 9:30 AM The wave four intraseasonal variability in extratropical S.H. and influences over South America- The behaviour of CPTEC/COLA AGCM. Cavalcanti, Iracema Fonseca de Albuquerque; Cunningham, Christopher Castro
- 9:45 AM Dynamical Downscaling of Seasonal Climate Information: Linkage with Grazing Simulation System. Syktus, Jozef; McKeon, Greg. Paper withdrawn

8:00 AM-10:00 AM, Friday,

Session 5-OS2: Addressing gaps in SH observing systems

Chairperson: Paulo Nobre

- 8:30 AM A satellite energy and water cycle dataset for climate studies in the southern hemisphere. L'Ecuyer, Tristan
- 8:45 AM Community Communication and Partnership to Improve Observations: Lessons of GCOS and RANET in the Pacific. Glarke, Garry; Sponberg, Kelly.

- 9:00 AM Pacific Islands Global Climate Observing System (PI-GCOS) Program. Diamond, Howard.
- 9:15 AM The Indirect Effect of Aerosols over the Amazon: From Observations to Modeling. Costa, Alexandre A.
- 9:30 AM Current correction methods after temperature data assimilation in the Tropical Atlantic with MOM 3. Teixeira, Fabíola Valéria Barreto; Tanajura, Clemente Augusto Souza
- 9:45 AM A Bayesian approach for recovering and homogenising meteorological time series. Lucio, Paulo Sérgio

10:00 AM-10:30 AM, Friday

Coffee Break

10:30 AM-11:45 PM, Friday,

Session 5-OS1: Climate predictions

Chairperson: Vasubandhu Misra

- 10:30 AM Coupled Forecast System (CFS) simulations of the southern hemisphere tropical climate. Thiaw, Wassila Mamadou
- 10:45 AM Temperature and salinity data assimilation experiments in the tropical Atlantic with MOM_3. Sáñez, Patricia; Tanajura, Clemente Augusto Souza; Cárdenas, José Walter
- 11:00 AM Coupled Ocean-Atmosphere variability of the South American Monsoon System. Nobre, Paulo; Malagutti, Marta; Giarolla, Emanuel
- 11:15 AM Understanding the evolution of the south atlantic convergence zone and the subsequent impacts on seasonal variability over Brazil. George, Steven; Nobre, Paulo.
- 11:30 AM Predictability of SST anomalies in the South Atlantic using an analytical model of local air-sea interaction. De Almeida, Roberto Antonio Ferreira; Lentini, Carlos Alexandre Domingos; Campos, Edmo José Dias.

10:30 AM-11:15 AM, Friday,

Session 5-OS2: Addressing gaps in SH observing systems, Human influences on climate.

Chairperson: Mike Sparrow

- 10:30 AM IDD-Brazil: enhancing meteorological data-sharing and research. Chagas, Guilherme Oliveira; Yoksas, Tom; Almeida, Waldenio Gambi de; Coelho, David Garrana; Justi, Maria Gertrudes Alvarez.
- 10:45 AM A theoretical study of the impact of biomass-burning CCN on the dynamics of deep convective clouds with mixed phase. Raga, B., G.; Pozo, D.; Brizuela, Torres; Marcela; Nicolini; Matilde
- 11:00 AM Contributions of external forcings to Southern Annular Mode (SAM) changes. Arblaster, Julie M; Meehl, Gerald A

12:00 PM-01:30 PM, Friday

Lunch Break

1:30 PM-4:00 PM, Friday

Poster Session (Author in Attendance):

PD1: Hydrological variability and modeling

Chairperson: Manoel Gan

PD2: Climate predictions

Chairperson: Silvina Solman

PD3: Addressing gaps in SH observing systems

Chairperson: Clemente Tanajura

PD4: Human influences on climate

Chairperson: Olga Penalba

4:00 PM, Friday 28 April 2006

Conference ends

POSTER SESSIONS

Author in Attendance: 01:30 PM - 04:00 PM

Display Time: 08:00 PM- 06:30 PM

Monday, 24 April 2006

PA1: Monsoon systems and continental rainfall

- PA1-1. Main results of the South American Low Level Jet field Experiment SALLJEX. Marengo, Jose A.; Dias, Pedro Silva; Dias, Maria A. Silva; Cavalcanti, Iracema; Ambrizzi, Tercio; Fisch, Gilberto; Machado, Luiz; Tomasella, Javier; Seluchi, Marcelo
- PA1-2. Cumulus parameterization impact on the diurnal cycle of precipitation over Southwestern Amazon during Dry to Wet transition period in 2002. Figueroa; Nilo, Silvio; Mendonça; Antonio, Marcos; Dias, Silva; da, Pedro Leite; Souza; de, Enio Pereira; Dias, Silva; da, Maria Assunção Faus
- PA1-3. About the nature of the rainfall evolution over central South America during austral spring. Gonzalez, Marcela; Vera, Carolina; Liebmann, Brant; Allured, Dave
- PA1-4. Relations of the monsoon systems to the tropical multi-decadal and interannual variabilities. Garcia, Sâmia Regina; Kayano, Mary Toshie
- PA1-5. Seasonal dependence of surface-atmosphere interactions for subtropical South America. Collini, Estela A.; Berbery, Ernesto H.; Barros, Vicente
- PA1-6. Enso modulation of low-level meridional moisture flux across central South America during summertime. Berri, Guillermo J.; Bertossa, German
- PA1-7. On the diurnal variability of rainfall in eastern amazonia along atlantic coast during rainy season. Souza, Everaldo B. De; Rocha, Edson J. P. Da
- PA1-8. A Regional Reanalysis over South America for the 2000-2004 Time Period. Aravéquia, José Antonio; Herdies, Dirceu Luis
- PA1-9. Observed diurnal circulations and rainfall over the altiplano during the SALLJEX. Galvez, Jose M.; Orozco, Raquel K.; Reyes, Carmen R.; Douglas, Michael W.
- PA1-10. Developing cloudiness climatologies from satellite imagery to map cloud forests and other vegetation features over the tropical Americas. Douglas, Michael; Mejia, John F.; Killeen, Timothy J.

- PA1-11. Analysis of atmospheric variability over northeast Brazil during the austral summer 2003-2004. Vitorino, Maria Isabel; Kousky, Vernon Edgar; Dias, Pedro Leite da Silva
- PA1-12. Regional climate simulations of Quasi-Stationary waves over South America. Fernandez, Julio Pablo Reyes; Franchito, Sergio Henrique; Rao, Vadlamudi Brahmananda
- PA1-13. The impact of high-resolution SALLJEX data on global NCEP analyses. Herdies, Dirceu Luis; Kousky, Vernon E.; Ebisuzaki, Wesley; Mo, Kingtse
- PA1-14. On the dipolar behaviour of convective cloudiness over SACZ and Southeastern South America during austral summer. Meruane, Carolina; Mendina, Mariana; Díaz, Alvaro; Aceituno, Patricio
- PA1-15. The role of the South Indian and South Pacific oceans on the South American monsoon variability. Drumond, Anita Rodrigues de Moraes; Ambrizzi, Tercio
- PA1-16. Annual cycle of the South America Monsoon System. Raia, Adma; Cavalcanti, Iracema Fonseca Albuquerque
- PA1-17. South American Monsoon during the two phases of the Pacific Decadal Oscillation. Garcia, Sâ Regina, mia; Kayano, Mary Toshie
- PA1-18. An evaluation of the inter-hemispheric mass and humidity transport around South America. Cerqueira, Fernanda Araujo; Santos, Isimar de Azevedo
- PA1-19. Characteristics of the convective processes during wet and pre-wet season in Amazonia region. Machado, Luiz A. T.; Martins, Rafael C. G.; Morales, Carlos A.; Laurent, Henri
- PA1-20. The nature of a heat wave in eastern Argentina occurring during SALLJEX. Cerne, S. Bibiana; Vera, Carolina S.; Liebmann, Brant

Monday, 24 April 2006

PA2: Atmospheric chemistry in the SH

- PA2-1. Estimation of Biomass Burning Emissions on South America using Field Observations and Remote Sensing. Longo, Karla; Freitas, Saulo R.; Silva Dias, Maria A.; Silva Dias, Pedro
- PA2-2. Air pollution in Santiago de Chile: a comparison between satellite and in situ measurements. Oyanadel; A. *; Painemal; D.; Léon; J-F; Chiapello; I.; Gallardo; L.
- PA2-3. Using the super-parameterization concept to include the sub-grid plume-rise of vegetation fires in low resolution atmospheric chemistry-transport models. Freitas, Saulo; Longo, Karla
- PA2-4. Improvement of air quality forecast tools for two urban areas in Chile by means of data assimilation. Malla, Karina; Torres, German; Ortega, Jaime; Osses, Axel; Gallardo, Laura

- PA2-5. Tropospheric ozone previsibility through the Artificial Neural Network technique: Comparative study for the Metropolitan Area of São Paulo. Borges, Alessandro Santos; Andrade, Maria de Fátima; Guardani, Roberto
- PA2-6. Characterization of aerosol in Sorocaba - S.P., Brazil. Antunes; Pereira, Maria Lúcia; Artaxo; Paulo; Durrant; Steven
- PA2-7. Weekend/weekday differences of ozone, NO_x, NMHC in São Paulo Metropolitan Region (SPMR). Andrade, Maria de Fátima; Júnior, Rosiberto Salustiano da Silva; Oliveira, Marcio Gledson Lopes
- PA2-8. In-cloud and below-cloud numerical simulations of scavenging processes at Amazon Basin during LBA-SMOCC. Silva, Mariana Palagano Ramalho; Gonçalves, Fabio Luiz Teixeira
- PA2-9. Vehicle aerosol emissions from road tunnels in Sao Paulo, Brazil. Sánchez-Ccoyllo, Odón R.; Ynoue, Rita Y.; Martins, Leila D.; Astolfo, Rosana; Miranda, Regina M.; Freitas, Edmilson D.; Borges, Alessandro S.; Fornaro, Adalgiza; Andrade., Maria F.
- PA2-10. Organic nitrogen in precipitation in the Southeastern Brazil Rocha-Silva, Andréa; de Mello, Wiliam Zamboni
- PA2-11. Estimates of nitrous oxide emissions from guanabara bay, rj Guimarães, Giselle Parno; de Mello, William Zamboni
- PA2-12. Classification of Atmospheric Conditions during High Concentrations of Pollutants in Rio Grande, Brazil. Baumbach, Miriam O.; Krusche, N.
- PA2-13. Toxic metals in southern atmosphere and their impact. Jena, V. K.; Sahu, D.; Dewangan, H. L.; Patel, K. S.
- PA2-14. Size Distributions, Chemical Composition and Source Apportionment of the Atmospheric Aerosol in the Metropolitan Area of São Paulo: A Case Study for the Winter of 2003. Albuquerque, Taciana Toledo de Almeida; Andrade, Maria de Fátima
- PA2-15. Nivel de monóxido de carbono en el centro de Asunción. Acosta, Nilda Carolina Recalde; Martínez, Genaro Coronel
- PA2-16. Correlation analysis between pH values, nitrate concentration, conductivity electric, precipitation volume and wind direction in Cuiabá City rain, Mato Grosso State, Brazil.
- PA2-17. Marques, Rodrigo; Zamparoni, Cleusa Aparecida Pereira Gonçalves; Castro e Silva, Edinaldo; Barbosa, Andréia Maria; Arruda, Dirce; Magalhães, Aparecida de; Evangelista, Saulo

Monday, 24 April 2006

PA3: Role of the SH oceans in climate

- PA3-1. Application of wavelet transform in the study of coastal trapped waves off the west coast of South America. Camayo Maita, Rosio del Pilar

- PA3-2. Combining subsurface float and historic hydrographic data to obtain absolute transport potential for the Brazil and South Atlantic currents. Rodrigues, Regina; Watts, D. Randolph; Wimbush, Mark
- PA3-3. A modeling study: On the influence of high frequency ocean-atmosphere interactions over intra-seasonal oscillations during the El Niño 1997-98. Ramirez Gutierrez, Enver Manuel Amador; Cavalcanti, Iracema Foseca de Albuquerque
- PA3-4. Advective heat flux through the Antarctic Circumpolar Current based on WOCE hydrographic data. de Souza, João Marcos Azevedo Correia; Paiva, Afonso de Moraes
- PA3-5. South Western tropical Atlantic climate Variability Experiment – WAVES Nobre, Paulo; Campos, Edmo J. D.; Piolla, Alberto R.; Matano, Ricardo P.
- PA3-6. A comparison between semi-analytical and empirical reflectance model in the case of a high oceanic phytoplankton bloom in the South Western Atlantic ocean. Lerebourg, Christophe Jean-Yves Joel.; Garcia, Carlos Alberto Eiras; Garcia, Virginia Maria Tavano
- PA3-7. Spatial and temporal variability of the eastern Pacific warm pool inferred from high resolution satellite observations. Karnauskas, Kristopher; Busalacchi, Antonio
- PA3-8. Climatic variability over South America and South Atlantic associated to sea surface temperature (SST) anomalies in tropical Pacific and subtropical South Atlantic Oceans. Roque da Silva, Felipe das Neves; França, José Ricardo de Almeida; Ribeiro, Laura Alice de Araújo
- PA3-9. Coupling between SACZ and SST of the Atlantic and Pacific Oceans Jorgetti, Tatiana; Silva Dias, Pedro Leite
- PA3-10. The freshening of deep and bottom waters of the Bransfield Strait (Antarctica). Garcia, Carlos Alberto Eiras; Mata, Mauricio Magalhães
- PA3-11. Identificación de las relaciones entre las temperaturas del mar y derrames de los ríos de la Cordillera de los Andes. Flamenco, Eduardo Adrian; Villalba, Ricardo
- PA3-12. The influence of the Southern Annular Mode (SAM) over the sea surface temperatures in the southwestern Atlantic. Teixeira, Carlos Eduardo Peres; Lentini, Carlos Alexandre Domingos; Mata, Mauricio Magalhães
- PA3-13. Stratocumulus cloud variability around San Felix Island Painemal, David; Rutllant, José; Garreaud, René
- PA3-14. A influência do fenômeno el niño na vazão da bacia do rio iguaçu-pr. AZEVEDO; SOUZA, Luiz Carlos de.; ANDRADE, Patricia.; NERY, Aparecido Ribeiro de.; Teixeira., Jonas
- PA3-15. Variability of climate over Molucca determined from the local ocean circulation and air sea interaction. Aldrian, Edvin
- PA3-16. The potential role of wind variability on plankton retention in the Río de la Plata Estuary: a numerical study. Simionato, Claudia G.; Berasategui, Alejandro; Meccia, Virna L.; Acha, Marcelo; Mianzan, Hermes

- PA3-17. Circulation and mixing processes in the Patos lagoon estuarine area: the entrance channel case. Vitta, André Penteadó; Máçller Jr, Osmar Olinto
- PA3-18. Impact of the variability of the Meridional Overturning Circulation on the upper tropical Atlantic. Goes, Marlos; Wainer, Ilana; Marshall, David
- PA3-19. Sub-annual variability of sea-surface temperature in the South Atlantic Chidichimo, María Paz; Vera, Carolina Susana
- PA3-20. Influence of ElNiño on the biennial and annual Rossby waves propagation in the Indian Ocean with special emphasis on Indian Ocean Dipole Vaid, Bakshi Hardeep; Chellappan, Gnanaseelan; Polito, Paulo Simionatto; Salvekar, Purva Shashikant
- PA3-21. Climate extremes over east Africa and their teleconnection with the indian-ocean dipole mode. Owiti, Okollah Zabloné; Ogallo, Laban Ayieko
- PA3-22. Meso-scale variability in the Western South Atlantic Campos, Edmo Jose Dias
- PA3-23. RegCM simulated latent and sensible heat fluxes over South Atlantic Ocean: seasonal mean and interannual variations. Reboita, Michelle Simões; Rocha, Rosmeri Porfírio da; Ambrizzi, Tércio
- PA3-24. Determination of the wave climate for the Southern Brazilian Shelf. Cuchiara; DéboraCopstein; Fernandes; Helena, lisa; Strauch; Carlos, oão; Calliari, Lauro Júlio
- PA3-25. Interannual changes in deep water masses along the WOCE SR4 section, Weddell Sea (Antarctica). Kerr, Rodrigo; Mata, Mauricio Magalhães
- PA3-26. Numerical Investigation of the Weddell Sea deep water masses behavior: Preliminary Results. Kerr, Rodrigo; Wainer, Ilana; Mata, Mauricio Magalhães
- PA3-27. Interactions between southern hemisphere ocean and terrestrial ecosystems extracted from 25-year satellite data. Kogan, F.; Guo, W.
- PA3-28. Atmospheric boundary layer response to a mesoscale eddy at the Brazil-Malvinas Convergence. Dourado, Marcelo Sandin; Sato, Olga Tiemi; Torres Jr., Audalio Rebelo
- PA3-29. Velocity field at the PIRATA sites: model outputs vs. observations. Urbano, Domingos Fernandes; Nobre, Paulo
- PA3-30. Modelling the sea surface variability in the eastern pacific ocean. Carbonel, Carlos; Galeão, Augusto
- PA3-31. Preliminary analysis on the variability of the Amazon Frontal Zone. Dardengo, Leonardo; Vinzon, Susana Beatriz
- PA3-32. The baroclinic structure of the Brazil Current System in the São Paulo Bight. Godoi, Sueli Susana de; Silveira, Ilson Carlos Almeida da; Francisco, Cayo Prado Fernandes; Schmidt, André Campos Kersten; Mattos, Rafael Augusto de
- PA3-33. Atmospheric soundings across an oceanic front between the Galapagos Islands and the coast of South America from the INOCAR cruise of October 2005. Murillo, Javier; Douglas, Michael; Regalado, Juan

- PA3-34. Estudo numérico bidimensional da interação oceano-atmosfera do tipo Walker. Sombra, Sérgio Sousa; Costa, Alexandre Araújo
- PA3-35. Role of Southern Hemispheric Anomalies on the Aridity Patterns and Climate Shifts in India. Nair, Shadananan
- PA3-36. Modeling the hydrodynamics of the Southern Brazilian Shelf. Fernandes, Elisa Helena; Monteiro, Igor; Schettini, Carlos Augusto
- PA3-37. Shelf break upwelling off southern Brazilian coast Soares, Saulo Müller; Soares, Ivan Dias; Ruggiero, Giovanni Abdelnur
- PA3-38. Probabilistic rainfall anomalies in Southern Brazil associated with ENSO. Sansigolo, Clóvis Angeli
- PA3-39. Oceanographic characterization of the Southern Brazilian Shelf (SBS). Aseff, Carla de Castro; Möller Junior, Osmar Olinto.
- PA3-40. Analysing latent heat flux over the Atlantic Ocean and their influence in the Amazonian region. Ramos, Andréa Malheiros; Conde, Fábio Cunha; Lucio, Paulo Sérgio
- PA3-41. Marine Topography Influence in Vitória Eddy Using a Coupled Ocean-Atmosphere Model. Mazzoli, Caroline Rosario; Torres Jr, Audalio Rebelo; Da Silva, Ricardo Marcelo
- PA3-42. Local atmospheric circulations in the Amazonas river mouth. Souza, Diego Oliveira de; Saraiva, Jaci M. B.
- PA3-43. Preliminary Study Of Ph, Salinity And Balneabilidade Of Maragogi - Alagoas - Brazil, In It Squares Rainy Of 2004. Vianna Campos, Antonio Marcos; Oliveira Silva, Aline; Rodrigues, Mariana Michele S.; Prestrelo, Fabiano; Medeiros, Isa Resende; Silva, Nívea Carla; Liberato, Osman; Barros, Saulo Costa; Amorim, Ricardo F. C.
- PA3-44. Description of a Atmosphere Ocean Regional Coupled Model. Da Silva, Ricardo Marcelo; Torres Jr, Audalio Rebelo; Mazzoli, Caroline Rosario
- PA3-45. Tools of pre and powder-processing for a model of propagation of waves in coastal zones using a SIG. Szewczyk, Susana Beatrís Oliveira
- PA3-46. Mixed-layer in the Equatorial Atlantic ocean: a numerical model study. Castro, Alrenice Cunha de; Soares, Jacyra; Servain, Jacques
- PA3-47. Convective cloud cover in tropical region of South America and around ocean using fulldisk GOES images. Bottino, Marcus Jorge
- PA3-48. Mixed-layer in the Equatorial Atlantic ocean: a numerical model study. Castro, Alrenice Cunha de; Soares, Jacyra; Servain, Jacques

Tuesday, 25 April 2006

PB1: Monsoon systems and continental rainfall

- PB1-1. Seasonal characterization on the diurnal cycle of convection frequency over Southeastern South America under different low-jet conditions. Salio, Paola; Nicolini,

Matilde

- PB1-2. An assessment of scale interaction in a low level jet event during SALLJEX. Saulo, A. Celeste; Vera, Carolina; Campetella, Claudia; Liebmann, Brant; Ruiz, Juan; González, Paula.
- PB1-3. Patterns of sea surface temperature anomalies over north atlantic ocean and convection over south america - observational analysis. Chaves, Rosane Rodrigues
- PB1-4. Atmospheric patterns associates to dry and wet periods over South and Southeast of Brazil during the austral summer: analysis of climatic simulations. Cuadra, Santiago Vianna; Rocha, Rosmeri Porfirio Da
- PB1-5. Characteristics of the intraseasonal variability of precipitation over eastern Argentina. González, Paula L. M.; Vera, Carolina S.; Liebmann, Brant
- PB1-6. Analysis of the cloud droplet size distributions obtained during the EMfIN!-ESN experiment. Leal Junior, João Bosco Verçosa; Vieira, Cícero Fernandes Almeida; Costa, Alexandre Araújo; de Oliveira, Carlos Jacinto
- PB1-7. Structure and evolution of the lower troposphere in the presence of a SALLJ event. Graciela, Ulke Ana
- PB1-8. Showery and non-showery precipitation yields in the humid argentine pampas. Sarochar, Ruben H.; Ruiz, Nora E.; Ciappesoni, Héctor H.
- PB1-9. Simulation of Interannual Precipitation Variability over Amazon using the CPTEC/COLA AGCM with Grell-ensemble cumulus parameterization. Figueroa; Nilo, Silvio; Barbosa; Jorge, Henrique de Melo; Grell; A, George; Cavalcanti; Albuquerque, Iracema Fonseca de; Satyamurty; Prakki; Nobre; Afonso, Carlos
- PB1-10. Caracterização da estação chuvosa nas regiões sul e sudeste do brasil associado com a circulação atmosférica. Barbieri, Paulo Ricardo Bardou; Rao, Vadlamudi Brahmananda
- PB1-11. The possible mechanisms responsible by extreme rainy events in the northeast brazil (neb) semiarid interior zone (1977-1997). Moscati, Marley Cavalcante de Lima
- PB1-12. Droughts over Brazil. Silva, Viviane B. S.; Kousky, Vernon E.; Shi, Wei; Higgins, Wayne
- PB1-13. The inter Enso teleconnection patterns and the generation of the South American Low-level Jet east of the Andes using a dry baroclinic model. Silva, Gyrlene Aparecida Mendes; Ambrizzi, Tércio
- PB1-14. The Role of the Low-Level Jet East of the Andes in Extreme Rainfall events over Southern South America. Weykamp, Fabiana Victória; Ambrizzi, Tércio
- PB1-15. The influence of the sea surface temperature over the rainfall in the south andean of peru. Espinoza, Ena Jaimes
- PB1-16. Impacts of the Low Level Jets on the precipitation over southern South America. Angelis, Carlos Frederico; Machado, Luiz Augusto Toledo; Salio, Paola

- PB1-17. The role of the transient disturbances in the development of Low-level Jets at leaside of the Andes cordillera and its influence on rainfall over South America. Santos, Ariane Frassoni dos; Gan, Manoel Alonso; Moscati, Marley
- PB1-18. A regional scale kinematic moisture transport model analysis of the Southern Africa. Jack, Christopher
- PB1-19. Heat and moisture budgets of the Walker Circulation and associated rainfall anomalies over South America Monsoon region. Veiga, José Augusto
- PB1-20. The importance of the low-level jet east of andes on moisture transport over south America. Soares, Wagner Rodrigues; Marengo, Jose Antonio
- PB1-21. Modulation of rainfall by Lake Titicaca using the WRF Model. Galvez, Jose M.; Douglas, Michael W.

Tuesday, 25 April 2006

PB2: Understanding long-term climate variations in the SH

- PB2-1. Atmospheric conditions during wet and dry summers extremes in Central-West Argentina. Compagnucci, Rosa Hilda; Agosta, Eduardo Andres
- PB2-2. The Southern Hemisphere westerlies during the Last Glacial Maxima and mid-Holocene. Rojas, Maisa; Crucifix, Michel; Moreno, Patricio; Hewitt, Chris
- PB2-3. Spatial and temporal perturbations variability in tropical and extratropical systems in South America. Yuchechen, Adrian Enrique; Bischoff, Susana Amalia; Canziani, Pablo Osvaldo
- PB2-4. Intercomparison of the of the Southern Annular Mode for the mid-holocene and present between two coupled general circulation models. Oliveira, Adriana Brasil de; Wainer, Ilana
- PB2-5. Antarctic oscillation and the dust weather frequency in North China. Fan, Ke; Wang, Huijun
- PB2-6. Central-North China Precipitation as Reconstructed from the Qing Dynasty: Signal of the Antarctic Atmospheric Oscillation. WANG, Hui-Jun; FAN, Ke
- PB2-7. Relations of anomalous SST patterns in the Pacific and rainfall over northern-Northeastern Brazil during the two phases of the Pacific Decadal Oscillation. Silva, Ludimila Fabiana da; Kayano, Mary Toshie
- PB2-8. Teleconnection patterns associated with extreme occurrence of generalized frosts. part i: regional rossby waves propagation patterns in the austral hemisphere. Muller, Gabriela V.; Ambrizzi, Tércio
- PB2-9. Teleconnection patterns associated with extreme occurrence of generalized frosts. part ii: origin and evolution of the rossby waves propagation patterns in the austral hemisphere. Müller, Gabriela V.; Ambrizzi, Tércio

- PB2-10. Different behaviour of annular modes in Southern and Northern Hemispheres. Huth, Radan
- PB2-11. Change in the teleconnection between Central-West Argentina summer precipitation and the atmospheric circulation in the 70s. Agosta, Eduardo Andres; Compagnucci, Rosa Hilda
- PB2-12. Climate proxy events? patterns and the rainfall variability over the Brazilian Amazon. Lucio, Paulo Sérgio; Ramos, Andréa Malheiros; Conde, Fábio Cunha; Mendes, David; Mendes, Mônica C.
- PB2-13. Changes in occurrences of meteorological extreme events. Case Study: Brazilian main cities. Lucio, Paulo Sérgio; Molion, Luiz Carlos B.; de Abreu, Magda Luzimar
- PB2-14. Rainfall variability in São Tomé and Príncipe. Penhor, Manuel do Sacramento R.; Lucio, Paulo Sérgio; Molion, Luiz Carlos B.
- PB2-15. Onset of modern ENSO teleconnections and climate mechanisms for Holocene debris flows along the hyperarid coast of Northern Chile-Southern Peru. Vargas, Gabriel; Rutllant, José; Ortlieb, Luc
- PB2-16. Understanding rainfall variability via solar activity. Case study: Brazilian Amazon. Lucio, Paulo Sérgio; Conde, Fábio Cunha; Ramos, Andréa Malheiros
- PB2-17. Learning about the Brazilian Amazon rainfall variability with climate proxies and neural network. Conde, Fábio Cunha; Lucio, Paulo Sérgio; Ramos, Andréa Malheiros
- PB2-18. Low Frequency Oscillations in Long Series on Daily Maximum and Minimum Temperature in South America. Inference about Periods, Longitude and Inputs Circulations. Vargas, Walter Mario; Naumann, Gustavo
- PB2-19. Evaluation of the climate feedback mechanism of "Greenhouse Effect" over South America using the Data Mining Technique. Carvalho, Vanessa Silveira Barreto; Vicentini, Pedro Caffaro; França, José Ricardo de Almeida
- PB2-20. Seasonal and interannual variability of the hadley and walker cells over southern hemisphere pacific ocean as derived from the ncep-ncar reanalysis data. Cruz, Leandro Machado; Dereczynski, Claudine Pereira
- PB2-21. Observed trends in precipitation and temperature over Argentina. Fernández, Adriana Elsa; Ciappesoni, Hector Horacio; Nuñez, Mario Néstor
- PB2-22. Seasonal patterns of water level, soil moisture, and carbon and energy fluxes in a seasonally flooded ecotone of eastern Amazonia. Martins, Fernanda Sousa; Ribeiro, Rita da Mata; Kurzatkowski, Dariusz; Almeida, Paola Cardoso de; Cabral, Osvaldo; Freitas, Helber; Oliveira, Leuda; Tannus, Rafael; Acosta, Ricardo; Rocha, Humberto Ribeiro; Borma, Laura De Simone.
- PB2-23. Variability of NAO, northern and southern hemisphere temperature in relation to Indian summer monsoon rainfall rainfall. Kakade; S. B.; Dugam; S. S.

- PB2-24. Evidence for interannual and interdecadal extreme temperature variability in Uruguay. Renom, Madeleine; Rusticucci, Matilde
- PB2-25. Observed trends in precipitation and temperature over Argentina. Fernández, Adriana Elsa; Ciappesoni, Héctor Horacio; Nuñez, Mario Néstor
- PB2-26. Regional Scale Precipitation in Peru associated with the El Niño-La Niña/Southern Oscillation. Bazo, Juan; Carrillo, Mauricio
- PB2-27. Saharian desert cyclic events based on seasonal to interannual recurrent Sahel rainfall diagnosis. Barai, Eduardo; Lucio, Paulo Sérgio; Molion, Luiz Carlos B.; Conde, Fábio Cunha; Ramos, Andéa Malheiro
- PB2-28. Sea Surface Temperature and Atmospheric Circulation features associated to the Argentinean Andean rivers streamflow variability. Araneo, D. C.; Compagnucci, R. H.

Tuesday, 25 April 2006

PB3: Weather analysis and forecasting

- PB3-1. Southern Hemisphere cyclone and anticyclone behavior during the last 50 years: recent trends, anomalies and links with the Pacific Ocean variability. Pezza, A. B.; Simmonds, I.
- PB3-2. Synoptic scale waves associated with heavy rainfall episodes in Southern Brazil. Teixeira, Mateus da Silva; Satyamurty, Prakki
- PB3-3. Development of a combined geographic and meteorological information system for the Andes region. Spreitzhofer, Gerald; Norte, Federico
- PB3-4. Numerical simulations of the evolution of landfalling tropical cyclones: electrification, lightning, microphysics, and dynamics. Fierro, Alexandre O.; Leslie, Lance M.; Mansell, Edward R.; Holland, Greg. J.; Straka, Jerry M.
- PB3-5. Simulations of extreme rainfall episodes with a mesoscale model. Teixeira, Mateus da Silva; Satyamurty, Prakki
- PB3-6. Frontal Zone on the North-East of Brazil. Fedorova, Natalia; Gemiacki, Lizandro; Carvalho, Lílian Caldas de; Levit, Vladimir; Rodrigues, Luis Ricardo Lage; Costa, Saulo Barros
- PB3-7. Numerical study of fog events along Rio de Janeiro coast, using the MM5 model coupled with the unidimensional model COBEL. Pinheiro, Flávia Rodrigues; Peterson, Rachel Giglio; de Farias, William Cossich Marcial
- PB3-8. Precipitation events in central Chile and its relation with the MJO. Carrasco, Jorge; Flores, Mariana; Alvarado, Jessica
- PB3-9. Forecasting a severe weather occurrence in the state of são paulo, brazil, on 24 may 2005: the indaiatuba tornado. Held, G.; Gomes, J. L.; Nascimento, E.
- PB3-10. Some characteristics of the nocturnal atmospheric surface layer structure and CO₂ releasing above caxiuanã amazonian rain forest. Sá, Leonardo Deane de Abreu; Nogueira, Daniele Santos; Cohen, Julia Clarinda Paiva; Lechinoski, Alessandro; Conceição, Renata

Leitão da; Martins, Cintya de Azambuja; Bispo, Carlos José Capela

- PB3-11. Spatial distribution of the cyclonic vorticity in the northeast of Brazil and adjoin ocean and his relation with the ENSO. Silva, Lígia Alves; Ramírez, Maria Valverde; Satyamurty, Prakki
- PB3-12. A Study of Simulated Instability Index and its behavior over Rio de Janeiro. Menezes, Wallace Figueiredo; Lima, Daniele Rodrigues Ornelas; Mourão, Caroline Estephanie Ferraz; Lima, Gilmara Duarte
- PB3-13. Solar radiation forecast using artificial neural networks in south Brazil. Guarnieri, Ricardo André; Chou, Sin Chan; Pereira, Enio Bueno
- PB3-14. Interaction between frontal zones and Upper Tropospheric Cyclonic Vortex and there influence on the Northeast of Brazil weather. Ferreira, Solange Aragã o; Fedorova, Natalia
- PB3-15. Intense Snowstorm in the Southern Mountains of Peru associated to the incursion of Cut-off low-pressure systems at Upper Level. Gutierrez, Nelson Quispe; Roldan, Grinia Avalos
- PB3-16. Influence of Sea - Land Breezes on Extreme Rainfall in the Northern of Peru. Carrillo, Mauricio
- PB3-17. A Sensibility Study of the Inclusion of the Cloud Track Wind Data in the CPTEC Global Data Assimilation System. Ferreira, Sérgio Henrique Soares; Aravéquia, José Antonio
- PB3-18. Regional circulation features associated with precipitation events leeward the Andes. Ruiz, Nora E.
- PB3-19. Fog forecast in the international airport of maceió, brazil, using artificial neural nets. Carvalho, Frede de Oliveira; Amorim, Ricardo Ferreira Carlos; Costa, Saulo Barros; Viana, Antonio Marcos; Santos, Deydila Michele Bonfim dos; Carvalho, Vera Núbia; Ribeiro, João Carlos
- PB3-20. Regional circulation features associated with precipitation events leeward the Andes. Ruiz, Nora E.
- PB3-21. Polar outbreaks in South America: synoptic climatology of cyclone/anticyclone behavior, extreme cases in high latitudes and frost events over 1888-2005 in Sao Paulo. Pezza, Alexandre Bernardes; Ambrizzi, Tercio; Simmonds, Ian
- PB3-22. Study of the horizontal and vertical energy exchanges during SACZ episodes: influence of the resolution of the analyses and the models and the convection parameterization. Mendonça, Renata Weissmann Borges; Bonatti, José Paulo
- PB3-23. A Super-Model ensemble for South America. Dias, Pedro Leite da Silva; Moreira, Demerval Soares; Dolif Neto, Giovanni
- PB3-24. On the westward propagation of Catarina phenomena. Bonatti, José Paulo; Rao, Vladamudi Brahmanand; Silva Dias, Pedro Leite da

- PB3-25. On mathematical and physical consistency of the balance equations for atmosphere dynamics. Bourchtein, Andrei; Bourchtein, Ludmila
- PB3-26. On grid generation for numerical models of atmospheric modeling and forecasting. Bourchtein, Ludmila; Bourchtein, Andrei
- PB3-27. The diurnal cycle in the coastal atmospheric boundary layer along north-central Chile: observations and models. Muñoz, Ricardo C.; Rutllant, José A.; Garreaud, René D.
- PB3-28. Coastal Monitoring in South Brazil: a public-private cooperation. Sunye, Patricia Sfair; Pacheco, Rodrigo Martin; Vieira, Hamilton Justino; Victoria, Renato Brea; Rodrigues, Mauro Silvio
- PB3-29. STOCK-WEATHER: Intelligent and reliable forecast system simulator for climate information management. Lucio, Paulo Sérgio; Conde, Fábio Cunha; Ramos, Andréa Malheiros
- PB3-30. Numerical simulation of a real case of multicell storm over Northeastern Argentina. Torres Brizuela, Marcela María; Nicolini, Matilde
- PB3-31. Experiments with EOF-Based perturbation method to ensemble weather forecasting in middle latitudes. Mendonça, Antônio Marcos; Bonatti, José Paulo
- PB3-32. Flow around the Andean elbow from WRF simulations and P-3 aircraft measurements during SALLJEX. Mejia, John F.; Douglas, Michael W.
- PB3-33. Northward-propagating surges east of the Andes during the SALLJEX. Galvez, Jose M.; Douglas, Michael W.
- PB3-34. Plausible effects of Paleolake Tauca on the altiplano circulations and rainfall from WRF model simulations. Orozco, Raquel K.; Mejia, John F.; Galvez, Jose M.; Douglas, Michael W.

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PC1: Weather analysis and forecasting

- PC1-1. Modal energetic partition and interaction among vertical and horizontal modes for the Catarina phenomena. Bonatti, José Paulo; Silva Dias, Pedro Leite da
- PC1-2. Role of the basic state on the intraseasonal variability in the South Atlantic convergence zone. Marton, Edilson; Aravequia, José Antonio
- PC1-3. Precursors of cyclogenesis events in the South-American mid-latitudes. Mendes, David; Souza, Enio; Trigo, Isabel; Miranda, Pedro
- PC1-4. Synoptic and thermodynamic analysis of an extreme heat wave over subtropical South America. Seluchi, Marcelo Enrique; Norte, Federico Augusto; Gomes, Jorge Luis; Simonelli, Silvia Carmen
- PC1-5. Extreme Weather Events Genesis and Forecast in Alagoas State of Brazil. Levit, Vladimir; Rodrigues, Luis Ricardo Lage; Costa, Saulo Barros; Fedorova, Natalia; Simplicio, Thiago dos Anjos; Pereira, Geovanni Calheiros; Gemiacki, Lizandro; Carvalho, Lillian

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- PC1-6. Characteristics of three extreme maximum temperature episodes in mendoza, argentina. Norte, Federico Augusto; Simonelli, Silvia Carmen; Seluchi, Marcelo; Viale, Maximiliano; Cristaldo, Julio; Heredia, Nicolás Omar*
- PC1-7. High resolution simulation of low level jets in the eastern amazonia. Cohen, Julia Clarinda Paiva; Sá, Leonardo Deane de Abreu; Nogueira, Daniele Santos; Gandu, Adilson Wagner
- PC1-8. The Wind-waves Pattern Offshore of Western and Eastern South America Coast. Innocentini, Valdir; and; Dominguez, José Maria Landim
- PC1-9. Energetics of cold air outbreaks over south Brazil. Silveira, Virginia Piccinini; Gan, Manuel Alonso
- PC1-10. Previous conditions associated to a development of a mesoscale convective system under South American Low-Level Jet event: A case study. Borque, Paloma Celina; Vidal, Ricardo; Salio, Paola; Nicolini, Matilde
- PC1-11. An intraseasonal analysis of the severe cold events in the center-south of Brazil in the winter period. Schneider, Marcelo; Silva Dias, Pedro Leite da; Vitorino, Maria Isabel; Ferreira, Nelson Jesus
- PC1-12. Intraseasonal oscillation in the south Brazil during the 2003-2005 drought. Schneider, Marcelo; Silva Dias, Pedro Leite; Vitorino, Maria Isabel; Ferreira, Nelson Jesus
- PC1-13. Warm and dry spells (WDS) in austral winter in tropical and subtropical South America. Satyamurty, Prakki; Padilha, Carina Klug
- PC1-14. Anticyclone tracks leading to generalized frosts in central-eastern argentina. Müller, Gabriela V.; Pezza, Alexandre Bernardes; Ambrizzi, Tércio
- PC1-15. Coastal sea level response associated with frontal systems using conventional and NCEP/NCAR Reanalysis data, in Paranaguá Bay, Paraná State, Brazil. Oliveira, Marilia Mitidieri Fernandes de; Ebecken, Nelson Francisco Favilla; Caloba, Luiz Pereira; Neves, Claudio Freitas; Santos, Isimar de Azevedo; Oliveira, Jorge Luiz Fernandes de
- PC1-16. Low-level wind field forecast with e mesoscale atmospheric boundary layer model forced by the ETA/CPTEC model forecast. Sraibman, Laura; Berri, Guillermo
- PC1-17. An analysis of the synoptic forcings of the 28 April 2001 severe storm generating a tornado at Resistencia. Torres Brizuela, Marcela María; Nicolini, Matilde; Cerne, Bibiana; Possia, Norma
- PC1-18. Spatial and Temporal Activity Analysis in East Coast over northeast Brazilian Region. Cavalcanti, Alessandro Sarmiento; Menezes, Wallace Figueiredo; Pimentel, Luiz Cláudio Gomes; Amorim, Ricardo Carlos Ferreira de
- PC1-19. Thermodynamic Classification of Caxiaunã during the dry season. Souza, Dayana Castilho; Mota, Maria Aurora Santos; Cohen, Júlia Clarinda Paiva

- PC1-20. The role of the upper tropospheric cyclonic systems. Silva, Lígia Alves; Satyamurty, Prakki
- PC1-21. Evaluation of weather forecasts made for Rio de Janeiro City. Oliveira, Luciana de Sousa de; Silva, Maria Gertrudes Alvarez Justi da; Coelho, David Garrana
- PC1-22. Upper Troposphere Cyclonic Vortex on the Northeastern Brazil: the January 2000, 2002 and 2004 episodes. Calheiros, Alan James Peixoto; Molion, Luiz Carlos Baldicero; Tenório, Ricartdo Sarmento
- PC1-23. Operational rainfall prediction over Brazilian ?Cerrado? Region using MM5 mesoscale model. Justi da Silva, Maria Gertrudes Alvarez; Coelho, David Garrana; Dereczynski, Claudine Pereira; Menezes, Wallace Figueiredo; Santos, Isimar de Azevedo; Silva, Alfredo Silveira da
- PC1-24. Accuracy of the Aviation Model (AVN) final analyses over Central South America based upon upper air observations collected during the SALLJEX. Douglas, Michael W.; Murillo, Javier; Orozco, Raquel K.; Mejia, John F.; Galvez, Jose M.
- PC1-25. Performance of the wrf regional model over southeastern south america during an extreme event. Bidegain, Mario; Caffera, Ruben. M.; Gómez, Jorge; Santos, Bernardo de los; Castellazzi, Pablo
- PC1-26. Eta model experiments during the SALLJEX period. Rozante, Jose Roberto; Cavalcanti, Iracema Fonseca de Albuquerque
- PC1-27. Upper-level cutoff lows in southern South America: Preliminary results. Campetella, Claudia; Possia, Norma
- PC1-28. Identification and modelling of severe mid-latitude cyclones over Cape Town, South Africa. Lennard, Chris
- PC1-29. Atmospheric Processes associated with Wet and Dry events in the South of Brazil. Severo, Dirceu L.; Gan, Manoel A.
- PC1-30. Climatology of the cloudiness on the international airport zumbi of palmares maceió - alagoas – brazil. Campos, Antonio Marcos Vianna; Costa, Saulo Barros; Prestrelo, Cristiano Oliveira; Prestrelo, Fabiano Oliveira; Silva, Aline Oliveira; Medeiros, Isa Resende; Silva, Nívea Carla; Rodrigues, Mariana Michele
- PC1-31. Bernoulli principle applied to the generation of paracas winds in the peruvian coast. Vilchez, Eng. Wilmer Pulache; Paredes, Eng. Marco
- PC1-32. Track and Intensity Forecasting Of Tropical Cyclones Over The Southwestern Indian Ocean. C.J.deW. Rautenbach and N le Roux

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PC2: Harry Van Loon special session, Climate and Cryosphere of the Antarctic region

- PC2-1. Middle atmosphere gravity wave drag climatology in the southern hemisphere. Pulido, Manuel; Thuburn, John

- PC2-2. Decadal changes in total column ozone and in the dynamics of the UT/LS region over southern midlatitudes. Malanca, Fabio Ernesto; Canziani, Pablo Osvaldo
- PC2-3. A case study on the effects of troposphere-stratosphere dynamic coupling upon the Austral Polar Vortex / Ozone Hole System. Osvaldo, Canziani Pablo; Edgardo, Legnani Walter
- PC2-4. Gravity wave generation and breaking observed with radiosondes at Ushuaia (Argentina). Pulido, Manuel; Teitelbaum, Hector
- PC2-5. Mechanisms of initiation and maintenance of the Walker Circulation and associated rainfall over Southern Hemisphere. Veiga, José Augusto
- PC2-6. Total Ozone change over the Southern Hemisphere: is SAM enough to explain it? Castañeda, Elizabeth; Malanca, Fabio Ernesto; Canziani, Pablo Osvaldo
- PC2-7. Study of the 1973-2002 variability of the Annual Cycle of ERA-40 Geopotential Height: an interhemispheric comparison. Valle, Repposi Patricia del; Osvaldo, Canziani Pablo
- PC2-8. Variation of the Ozone Layer and its relationship with the increment of the UV Radiation over Marambio Antarctic Station. Sánchez, Ricardo; Marinsek, Sebastián
- PC2-9. Has SAO been decreasing over the Southern Ocean? Taschetto, Andréa; Wainer, Ilana
- PC2-10. Northwestern Weddell Sea deep outflow into the Scotia Sea estimated by inverse methods during the austral summers of 2000 and 2001. Franco, Bárbara Cristie; Mata, Mauricio Magalhães; Piola, Alberto Ricardo; Garcia, Carlos Alberto Eiras
- PC2-11. Interactions between Antarctic sea ice and atmospheric circulation on weekly to seasonal time scales. Renwick, Jim
- PC2-12. A 100 years of surface weather observations at Orcadas Antarctic Station: a look at variability and change in the Antarctic Peninsula. Legnani, Walter Edgardo; Canziani, Pablo Osvaldo; Javier, Barletta; Gustavo, Gil; Federico, Ibáñez
- PC2-13. Summer-autumn Antarctic sea ice spatial patterns and the associated atmospheric circulation anomalies. Barreira, Sandra; Compagnucci, Rosa

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PC3: Impacts of land cover and land use changes

- PC3-1. Climate-vegetation equilibrium state for Amazonia. Sampaio de Oliveira, Gilvan; Nobre, Carlos; Oyama, Marcos; Cardoso, Manoel
- PC3-2. Comparative measurements of surface fluxes between three towers in southeast Brasil. Tatsch, Jônatan Dupont; Rocha, Humberto; Cabral, Osvaldo; Freitas, Helber; Ligo, Marcos; Acosta, Ricardo; Tannus, Rafael
- PC3-3. The observational aspects of the convective boundary layer at pasture site in Amazonia during the LBA RACCI experiment 2002. Fisch, Gilberto; Machado, Luiz

- Augusto; Lyra, Roberto Fernando da Fonseca; Silva Dias, Maria Assunção Faus
- PC3-4. Forest degradation and alteration of rainfall regime in the Brazilian Amazon. Maruyama; Megumi; Yamaguchi; Yasushi
- PC3-5. Seasonal impacts of land use changes in the tropical regions of Brazil: Numerical simulations. Souza, Solange Silva de; Alvalá, Regina Célia dos Santos; Chou, Sin Chan
- PC3-6. A GCM Simulation of Impact of Land Cover Changes in the Amazonia on Regional Climate. Correia, Francis Wagner Silva; Alvala, Regina Célia dos Santo; Manzi, Antônio Ocimar Manzi
- PC3-7. Long range transport of biomass burning products over Southern South America: a preliminary assessment of observations. Mielnicki, Diana Matilde; Canziani, Pablo Osvaldo; Drummond, James
- PC3-8. Preliminary assessment of the climate change on Patagonia Argentina's agriculture. Barbero, Nidia E.; Rössler, Cristina E.; Canziani, Pablo O.
- PC3-9. Characterization of Brazilian desertification areas through NCEP/NCAR reanalysis and numerical modeling. Oliveira Júnior, José Francisco de; Cavalcanti, Alessandro Sarmiento; Silva, Leonardo Aragão Ferreira da; Moraes, Pamella Lacerda da Silva
- PC3-10. Incorporating hydraulic redistribution into the simplified simple biosphere model (SSiB). Oliveira, Rafael; Oyama, Marcos; Nobre, Carlos
- PC3-11. Quali-quantitative tables waters monitoring in areas of Transition Forest, Management Forest and Pasture in the North of Mato Grosso. Andrade, Nara Luísa Reis de; Sanches, Luciana; Barbosa Júnior, João Areis Ferreira; Nogueira, José de Souza
- PC3-12. Budget radiation surface by using meteorological satellites. Souza, Jaidete Monteiro de; Ceballos, Juan Carlos
- PC3-13. A Vegetation Map of the Northeast Brazil Region for Use in Meteorological Modeling. Alvalá, Regina Célia dos Santos; Vieira, Rita Márcia da Silva Pinto; Carvalho, Vitor Celso de; Mello, Eliana Maria Kalil
- PC3-14. Detection of Tropical Savannah (Cerrado) Physiognomies in the Legal Amazon by the Application of the Vegetation and Moisture Indices with MODIS Time Series Data. Becerra, Jorge Alberto Bustamante; Alvalá, Regina Célia dos Santos
- PC3-15. Severe meteorological events and stagnation of warm and dry air masses in Northern Mato Grosso. Gielow, Ralf; Forti, Maria Cristina; Carvalho, João Andrade; Alvarado, Ernesto Celestino; Sandberg, David Victor; Santos, Jose Carlos
- PC3-16. Climate modelling uncertainty over southern Africa attributable to land-surface characteristics. Tadross, Mark; Hewitson, Bruce
- PC3-17. Thermal diffusivities and heat fluxes in soils, beneath forest and pasture areas, in marabá, pa, brazil. Souza, José Ricardo Santos de; Makino, Midori; Araújo, Rutenio Luiz Castro de; Cohen, Júlia Clarinda Paiva; Pinheiro, Francisca Maria Alves

- PC3-18. Characteristics of precipitation in the area of Angra dos Reis and its relation to landslides. Soares, Elenir Pereira; Emarton, Edilson
- PC3-19. Estimation of the Impact of Land-Surface Forcings on Temperature Trends in Argentina. Nuñez, Mario Néstor; Ciapessoni, Héctor Horacio; Rolla, Alfredo; Kalnay, Eugenia; Cai, Ming
- PC3-20. Balanço de radiação em áreas irrigadas utilizando imagens landsat 5-tm. Lopes, Gláucia Miranda; Silva, Bernardo Barbosa da
- PC3-21. Relation Between Degree-Day And The Vegetative Cycle. da Guia, Caroline Vidal Ferreira; Fernandes, Lázaro Costa

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PC4: Climate change in the SH

- PC4-1. The summer monsoon in the brazilian savanna: observations and projections for a double co2 scenario. Carvalho; Vespoli, Leila; Bombardi; Jose, Rodrigo; Silva; da, Ana Elizabeth; Rocha; Ribeiro, Humberto; Jones; Charles; Liebmann; Brant
- PC4-2. Impacts of climate change in South America: mean fields and variability. Grimm, Alice Marlene; Natori, Angela Akie
- PC4-3. Analysis of low frequency variability patterns and circulation regimes over southern South America and their response to global warming as depicted by IPCC AR4 AOGCMs. Solman, Silvina; Pessacg, Natalia
- PC4-4. Energy markets and global warming: A strong, yet unaccounted relationship. Pinto, Leontina; Szczupak, Jacques; Macedo, Luis H.; Ambrizzi, Tércio; Molina, Eder
- PC4-5. Changes in surface and upper-air temperature along the arid coast of northern Chile. Boisier, Juan Pablo; Aceituno, Patricio
- PC4-6. Simulations of the mid holocene climate in south america using the cptec agcm. Melo, Maria Luciene Dias de; Marengo, Jose Antonio
- PC4-7. Response of the LMD atmospheric general circulation model to solar irradiance variations. França, José Ricardo de Almeida; Silva, Felipe das Neves Roque da; Manso, Paula Maria de Jesus
- PC4-8. Variability of the atmospheric pressure on Brazilian stations. Bitencourt, Flávia Campelo Aragão; Rogério, Josicléa Pereira
- PC4-9. South america interdecadal climate variability. Molion, Luiz Carlos Baldicero
- PC4-10. Performance of GCMs and Climate Future Scenarios for Southeastern South America. Bidegain, Mario; Camilloni, Ines
- PC4-11. Numerical modelling of the biomass-burning aerosol direct radiative effects on the thermodynamics structure of the atmosphere and convective precipitation. Longo, Karla M.; Freitas, Saulo R.; Silva Dias, M.; Silva Dias, P.

- PC4-12. Climate change along the extratropical West coast of South America: extreme temperatures. Villarroel Jiménez, Claudia; Rosenblüth López, Benjamin; Aceituno Gutierrez, Patricio
- PC4-13. Detection of Cirrus Clouds at Southern Subtropical Latitudes. Lavorato, Mario Blas; Canziani, Pablo Osvaldo; Pagura, Mauricio Roberto; Cesarano, Pablo Antonio
- PC4-14. The influence of El Niño and La Niña episodes in the occurrence of extreme precipitation events over Southern Brazil. Pscheidt, Ieda; Grimm, Alice Marlene
- PC4-15. Precipitation variability in South America from IPCC-AR4 models. Part II: Influence of SH circulation leading patterns. Vera, Carolina S.; Silvestri, Gabriel E.; Liebmann, Brant; Gonzalez, Paula
- PC4-16. Precipitation variability in South America from IPCC-AR4 models. Part I: Climatology. Silvestri, Gabriel E.; Vera, Carolina S.; Liebmann, Brant; Gonzalez, Paula
- PC4-17. Annual and monthly trends in frost days in the Wet Pampa Argentina. Fernández Long, María Elena; Müller, Gabriela
- PC4-18. Comparisons between observed and modeled precipitation and temperature extremes in South America during the XX century (IPCC 20c3m). Rusticucci, Matilde; Marengo, José; Penalba, Olga; Renom, Madeleine
- PC4-19. Atmospheric circulation and sea surface temperature analysis, for cases of anomalous positioning of the Inter Tropical Convergence Zone associated with the North Atlantic Oscillation. Souza, Paula Pereira de; Cavalcanti, Iracema Fonseca Albuquerque; Kayano, Mary Toshie
- PC4-20. Mean climate and annual cycle in a regional climate change experiment over Southern South America. II: climate change scenarios (2081-2090). Nuñez, Mario Néstor; Solman, Silvina; Cabré, María Fernanda
- PC4-21. Runoff Coefficient and its relation to Phytogeography in Brazil. Carriello, F; Soares, J. V; Ferreira, N. J; Rodriguez, D. A
- PC4-22. Seasonal Variations of Latent and Sensible Heat Flux Tendency in South of Brazil. Santos, Margareth dos; Krusche, N.; Calixto, Rafael
- PC4-23. Sea-level pressure patterns in South America and the adjacent oceans in the IPCC AR4 models. Di Luca, Alejandro; Camilloni, Ines; Barros, Vicente
- PC4-24. Estimation of significance of the global and Southern Hemisphere air surface temperature trends. Bekryaev, Roman Viktorovich
- PC4-25. Agroclimatic change in the Province of Buenos Aires, Argentina. Navarro, Miguel; Barbieri, V.
- PC4-26. Trends in temperature in the central Andes of Peru (Mantaro basin). Trasmonte, Grace; Silva, Yamina; Chavez, Raúl; Segura, Berlin

- PC4-27. Temporal variability in the length of no-rain spells in Argentina. Penalba, Olga C.; Llano, María P.
- PC4-28. The rainfall trend over Ceara and its implications. Moncunill, David Ferran
- PC4-29. Characterization of the meteorological frost regime in the south mountain region of peru. Alvarez, Eng. Lourdes Menis; Riveros, Eng. Marco Paredes
- PC4-30. Short-term climate variability in the southeastern South America. Lentini, Carlos Alexandre Domingos; de Almeida, Roberto Antônio Ferreira; Pezzi, Luciano Ponzi; de Souza, Ronald Buss
- PC4-31. Changes in the systems of pressure and the atmospheric circulation to 500hPa on the amazonian basin and the fluctuations of the volume of river Rimac-Lima in summer. Allasi Quispe, Fernando Leonidas
- PC4-32. A study of the sea level elevation in the Tropical Atlantic as observed in the neighborhoods of the Brazilian Northeast coastline. Gomes Filho; F. , Manoel; Servain; Jacques; Lucena; Beserra, Daisy; Paula, de; Kerle, Richelle; Silva, Alexsandra Barbosa
- PC4-33. Evaluation of burning aerosol influence on Global Model (GL). Miranda, Regina Maura de; Ceballos, Juan Carlos

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- PD1-1. Statistical atmospheric downscaling for rainfall estimation over river basins in west Argentina. Labraga, J. C.
- PD1-2. Effects of land cover variability and hydrological heterogeneity on meso-scale climate in the Brazilian Amazon. da Silva, Rita de Cássia; Hutjes, Ronald; Tomasella, Javier; Kruijt, Bart; Nobre, Carlos Afonso
- PD1-3. Hydrology of interfluvial savanna wetlands bordering the upper Negro River. Belger, Lauren; Forsberg, Bruce Rider; Melack, John
- PD1-4. Rainfall space variability during the LBA/TRMM experiment 1999 in Amazônia. Fisch, Gilberto; Vendrame, Iria Fernandes; Hanaoka, Paulo Cesar de Melo
- PD1-5. Mechanisms of the influence of El Niño and La Niña episodes on the frequency of extreme precipitation events in Brazil. Grimm, Alice Marlene; Tedeschi, Renata Gonçalves
- PD1-6. On the parameterisation of mesoscale convective systems in regional climate models over Southern Africa. Adedoyin, Akintayo
- PD1-7. Interannual Variability of Precipitation Over "La Plata River" Basin. García, Norberto Oscar; Krepper, Carlos María
- PD1-8. About Climatic Jump of 1970/71 in La Plata River Basin. García, Norberto Oscar; Krepper, Carlos María

- PD1-9. Interannual variability of rainfall and streamflow in the Patos Lagoon basin: preliminary results. Hirata, Fernando Endo; Möller Júnior, Osmar Olinto
- PD1-10. Preliminary study in the use of Pseudo-temps for a SACZ prediction during 13-19 January 2003 using GCM/CPTEC/COLA. Mattos, João Gerd Zell de; Herdies, Dirceu; Ferreira, Nelson Jesus
- PD1-11. Soil water content simulations under water stress conditions. Gassmann, María Isabel; Gardiol, Jesús María; Serio, Leonardo
- PD1-12. Caracterização da microfísica das nuvens sobre a Amazônia Brasileira em regiões de pasto e floresta por medidas in situ com avião instrumentado e sua aplicação direta no modelo regional RAMS. Santos, Antonio Carlos Santana dos; Oliveira, José Carlos Parente de
- PD1-13. Observed eddy transport of water vapor over Argentina. Fernández, Adriana Elsa
- PD1-14. Hydrological Modelling in the Tocantins-Araguaia basin. Acosta, Ricardo; Rocha, Humberto; Freitas, Helber; Tattsch, Jonatan; Tannus, Rafael; Oliveira, Leuda; Bruno, Rogério
- PD1-15. Assesing long-term discharges of the Plata River. Saurral, Ramiro; Mezher, Romina; Barros, Vicente
- PD1-16. Teleconnections between global sea-surface temperatures and the hydrologic variabilities of the Brazilian basins. Guetter, Alexandre Kolodynskie
- PD1-17. Determination of wind farms for the Bahia State using numerical simulation of the atmospheric flow. Silva Paiva, Leanderson Marcos; Ferreira, Almir Venancio; Chagas, Guilherme Oliveira; Silva, Ricardo Marcelo
- PD1-18. On the dynamics of Saco da Mangueira embayment - Patos Lagoon (Brazil). Monteiro, Igor Oliveira; Fernandes, Elisa Helena; Möller Júnior, Osmar Olinto; Tagliani, Paulo Roberto
- PD1-19. Coastal upwelling off southeastern Brazilian shelf. Ruggiero, Giovanni Abdelnur; Soares, Ivan Dias; Soares, Saulo Müller
- PD1-20. Run off properties of the Parana and Uruguay rivers. Climate conditions associated to the extreme discharges. Relation with other run off argentinian rivers. Vargas, Walter; Bischoff, Susana

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PD2: Climate predictions

- PD2-1. New solar radiation parameterization in CPTEC/COLA AGCM. Barbosa, Henrique de Melo Jorge; Tarasova, Tatiana
- PD2-2. Convection in the amazônia: variability, effects and answer in the large-scale circulations. Mota, Maria Aurora Santos; Nobre, Carlos Afonso

- PD2-3. The fidelity of NCEP-CFS Seasonal Hindcasts over Nordeste. Vasubandhu Misra; Zhang, Yuning
- PD2-4. Assessing uncertainty of seasonal probabilistic forecasts: distribution-free confidence limits. Maia, Aline de Holanda Nunes; Meinke, Holger
- PD2-5. Downscaling the South American Monsoon Seasonal Climate. Misra, Vasubandhu
- PD2-6. Improving potential biomes allocation by considering natural fires in savannas. Cardoso, Manoel; Nobre, Carlos; Oyama*, Marcos; Sampaio, Gilvan
- PD2-7. Downscaling the ocean circulation on Western South Atlantic: hindcasting, monitoring and forecasting purposes. Camargo, Ricardo de; Harari, Joseph; França, Carlos Augusto Sampaio
- PD2-8. Anomalous rainfall in the Northeastern Brazil in January of 2004: downscaling using model WRF. Coelho, David Garrana; Silva, Maria Gertrudes Alvarez Justi da; Santos, Isimar de Azevedo
- PD2-9. Assessing Forecast Performance of the empirical model to forecast precipitation in the South and Southeast Regions of Brazil. Cardoso, Andrea de Oliveira; Silva Dias, Pedro Leite
- PD2-10. Precipitation Climate Prediction for the São Francisco River Basin using CPTEC Atmospheric Global Circulation Model. Sampaio de Oliveira, Gilvan; Marengo, José Antonio; Silva Dias, Pedro Leite da; Silva, Benedito Cláudio da; Collischonn, Walter; Tucci, Carlos
- PD2-11. A Local Precipitation Downscaling Approach. Ruiz, Nora E.; Vargas, Walter M.
- PD2-12. Evaluation of interannual variability over South America using the dynamic downscaling approach. De Sales, Fernando Henrique; Xue, Yongkang
- PD2-13. Eta Model seasonal precipitation forecasts with different initialization periods. Gomes, Jorge L.; Chou, Sin Chan; Bustamante, Josiane F.
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- PD3-3. The SCAR/SCOR Oceanography Expert Group. Sparrow, Michael Dylan; Fahrbach, Eberhard; Summerhayes, Colin
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