

Curriculum Vitae: Dr. Caio Augusto dos Santos Coelho

A) PERSONAL DETAILS

Date of Birth: 9 August 1974
Nationality: Brazilian
Address: Centro de Previsão de Tempo e Estudos Climáticos (CPTEC)
Rodovia Presidente Dutra, Km 40, SP-RJ.
12630-000, Cachoeira Paulista, SP, Brasil
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B) ACADEMIC QUALIFICATIONS

Oct 2001 – Mar 2005: **PhD degree in Meteorology, University of Reading, UK**
PhD Project: Forecast calibration and combination: Bayesian assimilation of seasonal climate predictions. *Supervised by* Prof. David Stephenson and Dr. Francisco Doblas-Reyes (ECMWF)

Mar 1999 – Mar 2001: **Masters degree in Meteorology, University of São Paulo, Brazil**
MSc Project: Precipitation anomalies over South America and its relationship with Pacific and Atlantic sea surface temperature during extremes of El Niño Southern Oscillation. *Supervised by* Prof. Tércio Ambrizzi

Jan 1996 – Dec 1998: **Bachelor degree in Meteorology, University of São Paulo, Brazil.** *Awarded 1st class honours with distinctions.*

C) APPOINTMENTS

Jul 2006 – present **Research Scientist, Centro de Previsão de Tempo e Estudos Climáticos (CPTEC), Instituto Nacional de Pesquisas Espaciais (INPE), Brazil**

Apr 2005 – May 2006 **Postdoctoral Research Fellow, Department of Meteorology, University of Reading, UK**

D) AWARDS

Awarded by the Department of Atmospheric Science (University of São Paulo - USP) and by the Regional Engineering and Architecture Council after reaching the highest average grade since the beginning of the Meteorology undergraduate course at USP in 1977

E) MEMBERSHIP OF PROFESSIONAL BODIES AND EDITORIAL BOARDS

- Fellow of the Brazilian Meteorological Society
- Associate fellow of the Royal Meteorological Society
- Associate Editor of the Brazilian Journal of Meteorological of the Brazilian Meteorological Society
- Member of the editorial board of the Journal Meteorological Applications of the Royal Meteorological Society
- Member of the editorial board of the Journal Climate Risk Management

F) PEER REVIEWED PUBLICATIONS

Coelho, C. A. S., Baker, J. C. A., Spracklen, D. V., Kubota, P. Y. Souza, D. C., Guimarães, B. S., Figueroa, S. N., Bonatti, J. P., Sampaio, G., Klingaman, N. P., Chevuturi, A., Woolnough, S. J., Hart, N., Zilli, M., Jones, C. D., 2022: A perspective for advancing climate prediction services in Brazil. *Climate Resilience and Sustainability*.

Casati, B., Dorninger, M., **Coelho, C. A. S.**, Ebert, E. E., Marsigli, C., Mittermaier, M. P., Gilleland, E., 2022: The 2020 International Verification Methods Workshop Online: Major Outcomes and Way Forward. *Bulletin of the American Meteorological Society*, v. 103, p. E899-E910.

Escada, P., **Coelho, C. A. S.**, Taddei, R., Dessai, S., Cavalcanti, I. F. A., Donato, R., Kayano, M. T., Martins, E. S. P. R., Miguel, J. C. H., Monteiro, M., Moscati, M. C. L., 2021: Climate services in Brazil: Past, present, and future perspectives. *Climate Services* v. 24, p. 100276, 2021.

Diamond, H. J., Schreck, C. J., Becker, E. J., Bell, G. D., Blake, E. S., Bond, S., Bringas, F. G., Camargo, S. J., Chen, L., **Coelho, C. A. S.**, Domingues, R., Goldenberg, S. B., Goni, G., Fauchereau, N., Halpert, M. S., HE, Q., Klotzbach, P. J., Knaff, J. A., L'Heureux, M., Landsea, C. W., Lin, I.-I., Lorrey, A. M., Luo, J-J, Macritchie, K., Magee, A. D. , *et al.*, 2021: The Tropics. *Bulletin of the American Meteorological Society*, v. 102, p. S199-S262.

Chevuturi, A., Klingaman, N. P., Rudorff, C. M., **Coelho, C. A. S.**, Schongart, J., 2021: Forecasting annual maximum water level for the Negro River at Manaus. *Climate Resilience and Sustainability*.

Coelho, C. A. S., Souza, D. C., Kubota, P. Y., Cavalcanti, I. F. A., Baker, J. C. A., Figueroa, S. N., Firpo, M. A. F., Guimarães, B. S., Costa, S. M. S., Gonçalves, L. J. M., Bonatti, J. P., Sampaio, G., Klingaman, N. P., Chevuturi, A., Andrews, M. B., 2021: Assessing the representation of South American monsoon features in Brazil and U.K. climate model simulations. *Climate Resilience and Sustainability*.

Chevuturi, A., Klingaman, N. P., Guo, L., Holloway, C. E., Guimarães, B. S., **Coelho, C. A. S.**, Kubota, P. Y., Young, M., Black, E. Baker, J. C.A., Vidale, P. L., 2021. Subseasonal prediction performance for South American land-atmosphere coupling in extended austral summer. *Climate Resilience and Sustainability*.

White, C. J., Domeisen, D. I. V., Acharya, N., Adefisan, E. A., Anderson, M. L., Aura, S., Balogun, A. A., Bertram, D., Bluhm, S., Brayshaw, D. J., Browell, J., Büeler, D., Charlton-Perez, A., Chourio, X., Christel, I., **Coelho, C. A. S.**, DeFlorio, M. J., Delle Monache, L., Di Giuseppe, F., García-Solórzano, A. M., Gibson, P. B., Goddard, L., González Romero, C., Graham, R. J., Graham, R. M., Grams, C. M., Halford, A., Katty Huang, W. T., Jensen, K., Kilavi, M., Lawal, K. A., Lee, R. W., MacLeod, D., Manrique-Suñén, A., Martins, E. S. P. R., Maxwell, C. J., Merryfield, W. J., Muñoz, Á. G., Olaniyan, E., Otieno, G., Oyedepo, J. A., Palma, L., Pechlivanidis, I. G., Pons, D., Ralph, F. M., Reis, D. S., Jr., Remenyi, T. A., Risbey, J. S., Robertson, D. J. C., Robertson, A. W., Smith, S., Soret, A., Sun, T., Todd, M. C., Tozer, C. R., Vasconcelos, F. C., Jr., Vigo, I., Waliser, D. E., Wetterhall, F., & Wilson, R. G., 2021: Advances in the application and utility of subseasonal-to-seasonal predictions, *Bulletin of the American Meteorological Society.*, p.1-57.

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Cavalcanti, I. F. A., Barreto, N. J. C., Alvarez, M. S., Osman, M., **Coelho, C. A. S.**, 2021: Teleconnection patterns in the Southern Hemisphere represented by ECMWF and NCEP S2S project models and influences on South America precipitation. *Meteorological Applications*.

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Marsigli, C., Ebert, E., Ashrit, R., Casati, B., Chen, J., **Coelho, C. A. S.**, Dorninger, M., Gilleland, E., Haiden, T., Landman, S., Mittermaier, M., 2021: Review article: Observations for high-impact weather and their use in verification. *Natural hazards and earth system sciences*, v.21, p.1297 - 1312.

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Pezza, A.B., **Coelho, C.A.S.**, 2019: The Atlantic Intertropical Convergence Zone, in State of Climate in 2018. Bulletin of the American Meteorological Society, September 2019. Vol. 100, No. 9, p. S109-S110.

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Scricco, I. M., **Coelho, C.A.S.**, 2018: Summer daily precipitation and wet day climatological features in southeast São Paulo, Brazil. Theoretical and Applied Climatology. DOI: 10.1007/s00704-018-2723-y

dos Santos, A.P.P, **Coelho C.A.S.**, Pinto Júnior, O., dos Santos, S.R.Q., de Lima, F.J.L., de Souza, E.B., 2018: Climatic diagnostics associated with anomalous lightning incidence during the summer 2012/2013 in Southeast Brazil. International Journal of Climatology. v38. 996-1009.

Geirinhas, J.L., Trigo, R.M., Libonati, R., **Coelho, C.A.S.**, Palmeira, A.C., 2018: Climatic and synoptic characterization of heat waves in Brazil. International Journal of Climatology. v.38, 4, 1760-1776.

Coelho C.A.S., Firpo, M.A.F., Maia, A.H.N., MacLachlan, C., 2017: Exploring the feasibility of empirical, dynamical and combined probabilistic rainy season onset forecasts for São Paulo, Brazil. International Journal of Climatology. v 37, S1, 398-411.

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Martins, E.S.P.R., **Coelho, C.A.S.**, Haarsma, R., Otto, F.E.L., King, A., Oldenborgh, G.J.V., Kew, S., Philip, S., Vasconcelos Junior, F.C., Cullen, H., 2017: A multimethod attribution analysis of the prolonged Northeast Brazil hydrometeorological drought (2012–16). *Bulletin of the American Meteorological Society*. v.99, 65-69.

Pezza, A.B., **Coelho, C.A.S.**, 2016: The Atlantic Intertropical Convergence Zone, in State of Climate in 2015. *Bulletin of the American Meteorological Society*. v.97, p.S102 - S104.

Turasie, A.A., **Coelho C.A.S.**, 2016: Cointegration modelling for empirical South American seasonal temperature forecasts. *International Journal of Climatology*. v 36, 14, 4523-4533.

Lowe, R, **Coelho C.A.S.**, Barcellos, C., Carvalho, M.S., Catão, R.C., Coelho, G.E., Ramalho, W.M., Bailey, T.C., Stephenson, D.B., Rodó, X., 2016: Evaluating probabilistic dengue risk forecasts from a prototype early warning system for Brazil. *eLife*, v. 5, p. 1.

Coelho, C.A.S., Cardoso, D.H.F., Firpo, M.A.F., 2016: Precipitation diagnostics of an exceptionally dry event in São Paulo, Brazil. *Theoretical and Applied Climatology*, v. 125 (3-4), 769-784.

Coelho, C.A.S., De Oliveira, C.P., Ambrizzi, T., Reboita, M.S., Carpenedo, C.B., Campos, J.L.P.S., Tomaziello, A.C.N., Pampuch, L.A., Custódio, A.S., Dutra, L.M.M., Da Rocha, R.P., Rehbein, A., 2016: The 2014 southeast Brazil austral summer drought: regional scale mechanisms and teleconnections. *Climate Dynamics*, v. 46 (11-12), 3737-3752.

Freire, J.L.M., Freitas, S.R., **Coelho, C.A.S.**, 2015: Calibração do modelo regional BRAMS para a previsão de eventos climáticos extremos. *Brazilian Journal of Meteorology*, v. 30, p. 158-170.

Pezza, A.B., **Coelho, C.A.S.**, 2015: The Atlantic Intertropical Convergence Zone, in State of Climate in 2014.. *Bulletin of the American Meteorological Society*, v. 96, p. S99-S100.

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Tim E. Jupp, T. E., R. Lowe, **C.A.S. Coelho** and D. B. Stephenson, 2012: On the visualization, verification and recalibration of ternary probabilistic forecasts. *Phil. Trans. R. Soc. A*, 370, 1100–1120

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Coelho C.A.S., A.R.M. Drumond, T. Ambrizzi, e G. Sampaio, 1999: Estudo Climatológico Sazonal da Precipitação sobre o Brasil em Episódios Extremos da Oscilação Sul. *Brazilian Journal of Meteorology*, 14(1), 49-65

G) PROJECTS INVOLVED

EUROBRISA: Project entitled "A EURO-BRazilian Initiative for improving South American seasonal forecasts". The aims of this project are: a) Strengthen collaboration and promote exchange of expertise and information between European and South American seasonal forecasters; b) Produce improved well-calibrated real-time probabilistic seasonal forecasts for South America; and c) Develop real-time forecast products for non-profitable governmental use (e.g. hydropower production, agriculture and health). Additional information available at <http://eurobrisa.cptec.inpe.br/>

S2S: Joint project between the World Weather and World Climate Research Programme (WWRP/WCRP) entitled "Sub-seasonal to seasonal prediction project". The objectives of this project are: To improve forecast skill and understanding on the subseasonal to seasonal timescale with special emphasis on high-impact weather events. To promote the initiative's uptake by operational centres and exploitation by the applications community. To capitalize on the expertise of the weather and climate research communities to address issues of importance to the Global Framework for Climate Services. Additional information available at <http://s2sprediction.net/>

CLIMAX: Belmont forum project entitled "Climate services through knowledge co-production: A Euro-South American initiative for strengthening societal adaptation response to extreme events". An inter- and trans-disciplinary framework based on a European-South American research cooperation is implemented to underpin climate services in South America. Additional information available at <http://www.climax-sa.org/>

SPECS:	EU-funded project entitled "Seasonal-to-decadal climate Prediction for the improvement of European Climate Services". Additional information available at http://www.specs-fp7.eu/SPECS/Home.html
ENSEMBLES:	EU-funded project entitled "ENSEMBLE-based Predictions of Climate Changes and their Impacts". The overall objective of the project is to maintain and extend European pre-eminence in the provision of policy relevant information on climate and climate change and its interactions with society. Additional information available at http://www.ensembles-eu.org/
CLARIS LPB:	EU-funded project entitled "A Europe-South America network for climate change assessment and impact studies in La Plata Basin". The project aims at predicting the regional climate change impacts on La Plata Basin (LPB) in South America, and at designing adaptation strategies for land-use, agriculture, rural development, hydropower production, river transportation, water resources and ecological systems in wetlands. Additional information available at http://www.claris-eu.org/
CLARIS:	EU-funded project entitled "A Europe-South America network for climate change assessment and impact studies". The overall objective of the project is to strengthen collaboration between research groups in Europe and South America to develop common research strategies on climate change and impact issues in the subtropical region of South America through a multi-scale integrated approach (continental-regional-local). Additional information available at http://www.claris2-eu.org/
DEMETER:	EU-funded project entitled "Development of a European Multimodel Ensemble system for seasonal to interannual prediction". The objective of the project was to develop a well-validated European coupled multi-model ensemble forecast system for reliable seasonal to interannual prediction. During my PhD., I developed novel statistical (Bayesian) methods for the calibration and combinations of the multi-model ensemble forecasts of ENSO and South American rainfall produced in DEMETER. The use of seasonal forecast information to predict river flow discharge was also investigated. These statistical methods will be implemented in the EUROBRISA project. Additional information available at http://www.ecmwf.int/research/demeter/

H) REVIEWING DUTIES

- Regular reviewer of articles for Journal of Climate, Monthly Weather Review, Quarterly J. Royal Meteorological Society, International Journal of Climatology, Climate Dynamics, Atmosphere-Ocean, Theoretical and Applied Climatology, Bulletin

of the American Meteorological Society, Journal of Geophysical Research and Atmospheric Science Letters.

- Reviewer of scientific proposals for the National Science Foundations (NSF, U.S.A) and National Oceanic & Atmospheric Administration (NOAA, U.S.A).

I) PARTICIPATION IN FIELD CAMPAIGNS FOR DATA COLLECTION

Jan 1999 – Feb 1999:

Large Scale Biosphere Atmosphere Experiment in Amazon (LBA) in the context of the Atmospheric Mesoscale Campaign (AMC) project, conducted in Rondônia (Brazil). LBA is an international research project led by Brazil, funded by FAPESP. It aims to generate new knowledge necessary to the comprehension of the Amazon environment.

July 2001:

Climate Experiment over the Americas Warm Pools (ECAC) conducted in the equatorial Pacific (south of Mexico) and in the Caribbean sea. ECAC is an international research project led by Mexico, funded by IAI. It aims to better understand the dynamics of the mid summer drought observed in the tropical northeastern Pacific and the low level jet over the Caribbean.

J) TRAINING ACTIVITIES

19-23 Nov 2007:

Lecturer of joint International Research Institute for Climate and Society (IRI) / Instituto Nacional de Meteorologia (INMET) international training course: Climate information, approaches and tools for assessing and managing climate risks. Brasília, Brazil. Directors: Dr. Lauro T. G. Fortes (INMET) and Dr. Walter Baethgen (IRI).

9-13 Aug 2010:

Lecturer of Targeted Training Activity (TTA) on Statistical Methods in Seasonal Predictions organized at the International Center for Theoretical Physics (ICTP), Trieste, Italy. Directors: Prof. T. DelSole and Prof. J. Shukla.

21 June –1 July 2011:

Lecturer of ANAMS NOAA USAID UCAR International Training Workshop on Climate Variability and Predictions for the Atlantic Basin, Dakar, Senegal. Director: Dr. W. Thiaw.

1-3 Dec 2011:

Lecturer of training session during the 5th International Verification Methods Workshop, Bureau of Meteorology, Melbourne, Australia. Directors: Dr. Elizabeth E. Ebert and Dr. Laurence J. Wilson

<u>18-22 June 2013:</u>	Lecturer of Fifth International Training Workshop on Climate Variability and Predictions (5ITWCVP), Istanbul, Turkey. Co-Chairs: Dr. Wassila M. Thiaw (NOAA) and Dr. Ismail Gunes (Turkish State Meteorological Service)
<u>15-19 Sep 2013:</u>	Lecturer of 5 th International Symposium of Climatology. Florianópolis, Brazil. Chair: Dr. Osvaldo Moraes (CPTEC/INPE)
<u>28 Oct - 1 Nov 2013:</u>	Lecturer of WMO Interregional Training Workshop on Verification of Operational Seasonal Forecasts, Nanjing, China. Directors: Dr. Rupa Kumar Kolli (WMO) and Dr. Simon Mason (IRI)
<u>26-27 Feb 2014:</u>	Lecturer of Training Workshop on Seasonal Forecasting, Reanalysis Data and WRF, Camaguey, Cuba. Chair: Dr. Michel Mesquita (University of Bergen)
<u>4-8 Aug 2014:</u>	Lecturer of Sixth International Training Workshop on Climate Variability and Predictions (6ITWCVP), Istanbul, Turkey. Co-Chairs: Dr. Wassila M. Thiaw (NOAA) and Dr. Serhat Sensoy (Turkish State Meteorological Service)
<u>3-6 Nov 2014:</u>	Lecturer of 18 th Brazilian Congress of Meteorology. Recife, Brazil. Chair: Prof. Tércio Ambrizzi (IAG/USP)
<u>14-20 May 2015:</u>	Lecturer of Seventh International Training Workshop on Climate Variability and Predictions (7ITWCVP), Jakarta, Indonesia. Co-Chairs: Dr. Wassila M. Thiaw (NOAA), Nur Hayati (BMKG) and Dr. Ardhasena Sopaheluwakan (BMKG)
<u>27 July 2015:</u>	Lecturer of School on Modelling Tools and Capacity Building in Climate and Public Health, Petrópolis, Brazil. Co-Chairs: Dr. Rachel Lowe (IC3), Dr. Marília Carvalho (FIOCRUZ) and Dr. Christovam Barcellos (FIOCRUZ)
<u>4-7 August 2015:</u>	Lecturer of International Amazon and Northeast Conference in Statistics and Risk Analysis, Campina Grande, Brazil. Co-Chairs: Dr. Edwirde Luis Silva (UEPB), Dr. José Wellington dos Santos (EMBRAPA)
<u>24-27 August 2015:</u>	Lecturer of Brazilian Congress of Agrometeorology, Lavras, Brazil. Co-Chairs: Dr. Elizabeth Ferreira (UFLA) and Dr. Luiz Gonsaga de Carvalho (UFLA)
<u>19-22 October 2015:</u>	Lecturer of Workshop on long-range-forecast (LRF) products for the SSA-RCC, Buenos Aires, Argentina. Co-Chairs: Maria Skansi (SMN) and Dr. Caio A. S. Coelho (CPTEC/INPE)
<u>17-18 Nov 2016:</u>	Lecturer of MedCOF training workshop on verification of operational seasonal forecasts in the Mediterranean region, Institute of Biometeorology (IBIMET), National Research Council

	(NRC), Rome, Italy. Directors: Dr. Ernesto Rodriguez Camino and Dr. Massimiliano Pasqui
<u>3-6 May 2017:</u>	Lecturer of training session during the 7th International Verification Methods Workshop, Max Planck Institute for Human Development, Berlin, Germany. Directors: Dr. Martin Gober, Dr. Laurence J. Wilson and Dr. Marion Mittermaier
<u>10-14 Jul 2017:</u>	Lecturer of the First South American School on Sub-seasonal predictability and prediction, Asunción, Paraguay. Directors: Julian Baez and Angel Muñoz
<u>30 Oct-3 Nov 2017:</u>	Lecturer of the CLIMANDES project seasonal prediction course, Lima, Peru. Directors: Teresa Godilia García Vilca and Stefanie Gubler
<u>16-20 Jul 2018:</u>	Lecturer of Tenth International Training Workshop on Climate Variability and Predictions (10ITWCVP), Guayaquil, Ecuador. Co-Chairs: Dr. Wassila M. Thiaw (NOAA), Rodney Martinez (CIIFEN)
<u>24-26 Apr 2019:</u>	Lecturer in the Symposium associated with the Eleventh International Training Workshop on Climate Variability and Predictions (11ITWCVP), Ankara, Turkey. Co-Chairs: Dr. Wassila M. Thiaw (NOAA), Dr. Volkan Mutlu Coskun (TSMS)
<u>21-25 Jun 2021:</u>	Lecturer in the online verification summer school jointly organized by the Mathematic of Planet Earth – Centre for Doctoral Training (MPE-CDT) and JWGFVR. Co-Chairs: Dr. Barbara Casati (ECCC), Prof. Ted Shepherd (University of Reading)
<u>1-12 Nov 2021:</u>	Lecturer in the online training workshop on Subseasonal to Seasonal (S2S) Prediction of Monsoons co-organized by the IRI, WMO, WWRP, WCRP, the S2S Prediction Project, CLIVAR/WESEX Monsoon Panel, and the Indian Institute of Tropical Meteorology. Co-Chairs: Dr. Rupa Kumar Kolli and Dr. Angel Muñoz (IRI)

K) CONFERENCES AND CONGRESSES ATTENDED

<u>Oct 1996:</u>	9 th Brazilian Congress of Meteorology. Campos do Jordão, Brazil
<u>26-30 Oct 1998:</u>	10 th Brazilian Congress of Meteorology. Brasília, Brazil
<u>April 2000:</u>	6 th International Conference on Southern Hemisphere Meteorology and Oceanography. Santiago, Chile

<u>Oct 2000:</u>	11 th Brazilian Congress of Meteorology. Rio de Janeiro, Brazil
<u>May 2001:</u>	9 th Latin-American and Iberian Congress of Meteorology. Buenos Aires, Argentina
<u>March 2003:</u>	7 th International Conference on Southern Hemisphere Meteorology and Oceanography. Wellington, New Zealand
<u>May 2004:</u>	9 th International Meeting on Statistical Climatology, Cape Town, South Africa
<u>May 2005:</u>	1 st Alexander von Humboldt International Conference on the El Nino phenomenon and its global impact, Guayaquil, Ecuador.
<u>27 Nov-1 Dec 2006:</u>	14 th Brazilian Congress of Meteorology. Florianopolis, Brazil
<u>20-24 Aug 2007:</u>	10 th International Meeting on Statistical Climatology, Beijing, China
<u>24-29 Aug 2008:</u>	15 th Brazilian Congress of Meteorology. São Paulo, Brazil
<u>17-20 Nov 2008:</u>	Conference on Teleconnections in the Atmosphere and Oceans. ICTP, Trieste, Italy
<u>9-13 Feb 2009:</u>	9 th International Conference on Southern Hemisphere Meteorology and Oceanography. Melbourne, Australia.
<u>18-21 Oct 2009:</u>	3 rd International Symposium of Climatology. Canela, Brazil.
<u>12-16 July 2010:</u>	11 th International Meeting on Statistical Climatology, Edinburgh, Scotland
<u>16-20 Aug 2010:</u>	Conference on Decadal predictability, Trieste, Italy
<u>13-17 Sep 2010:</u>	16 th Brazilian Congress of Meteorology. Belém, Brazil
<u>27 May -1 Jun 2012:</u>	International Symposium on climate change impacts and vulnerabilities in Brazil: Preparing the Brazilian Northeast for the future (CCIV2012). Natal, Brazil
<u>23-28 Sep 2012:</u>	17 th Brazilian Congress of Meteorology. Gramado, Brazil
<u>28-30 Aug 2013:</u>	1 st Scientific conference of the Latin American and Caribbean Initiative Science and Technology Deployment to Combat Desertification. Sobral, Brazil
<u>15-19 Sep 2013:</u>	5 th International Symposium of Climatology. Florianópolis, Brazil
<u>4-6 Dec 2013:</u>	3 rd International Conference on Climate Services. Montego Bay, Jamaica

<u>10-13 Feb 2014:</u>	International Conference on Subseasonal to Seasonal Prediction Project (S2S). College Park, Maryland, USA
<u>17-21 Mar 2014:</u>	WCRP Conference for Latin America and the Caribbean: Developing, linking and applying climate knowledge. Montevideo, Uruguay
<u>30 Jun-2 Jul 2014:</u>	WMO Technical Conference on Climate Services – Building on CLIPS Legacy. Heidelberg, Germany
<u>16-21 Aug 2014:</u>	The World Weather Open Science Conference. Montreal, Canada
<u>3-6 Nov 2014:</u>	18 th Brazilian Congress of Meteorology. Recife, Brazil
<u>10-12 Dec 2014:</u>	4 th International Conference on Climate Services. Montevideo, Uruguay
<u>13-16 Oct 2015:</u>	6 th International Symposium of Climatology. Natal, Brazil
<u>5-7 Oct 2016:</u>	International conference on climate science and climate services. Met Office. Exeter, U.K.
<u>7-11 Nov 2016:</u>	19 th Brazilian Congress of Meteorology. João Pessoa, Brazil
<u>18-22 Sep 2017:</u>	7 th International Symposium of Climatology. Petrópolis, Brazil
<u>17-21 September 2018:</u>	Second International Conference on Subseasonal to Seasonal Prediction. Boulder, USA
<u>27-30 Nov 2018:</u>	20 th Brazilian Congress of Meteorology. Maceió, Brazil

L) MEETINGS, SEMINARS, WORKSHOPS AND COURSES ATTENDED

<u>13-14 May 2002:</u>	5 th DEMETER meeting. Bologna, Italy.
<u>19-20 Jun 2002:</u>	ECMWF seasonal forecast users meeting. Reading, U.K.
<u>9-13 Sep 2002:</u>	ECMWF seminar on predictability of weather and climate. Reading, U.K.
<u>13-14 Nov 2002:</u>	ECMWF seminar on the role of the upper ocean in medium and extended range forecasting. Reading, U.K.
<u>11 Jun 2003:</u>	ESSG meeting on Bayesian statistics in the environment. London, U.K.
<u>12-13 Jun 2003:</u>	Workshop on Bayesian models in environmental applications

	using WinBUGS. London, U.K.
<u>18-19 Jun 2003:</u>	ECMWF seasonal forecast users meeting. Reading, U.K.
<u>15 Oct 2003:</u>	Royal Meteorological Society meeting. El Niño: Frontiers in research and prediction. London, U.K.
<u>21 Jan 2004:</u>	Royal Meteorological Society meeting. Extreme events in weather and climate. London, U.K.
<u>19-22 Apr 2004:</u>	CLIVAR workshop on Atlantic predictability. Reading, U.K.
<u>17-21 May 2004:</u>	ECMWF meteorological training course: Predictability, diagnostics and seasonal forecasting. Reading, U.K.
<u>31 May - 4 Jun 2004:</u>	WMO CCI/CLIVAR Expert Team on Climate Change Detection Monitoring and Indices (ETCCDMI) workshop on climate extremes. Cape Town, South Africa.
<u>20-23 Sep 2004:</u>	CLARIS project kick-off meeting. Foz do Iguacu, Brazil.
<u>18-21 Oct 2004:</u>	Joint WGNE/WGSIP/WGCM workshop on ensemble methods from weather forecasting to climate change. Exeter. U.K.
<u>1-4 Mar 2005:</u>	1st TIGGE Workshop. ECMWF. Reading. U.K.
<u>29 Apr 2005:</u>	CGAM/ECMWF Workshop on Tropical Ocean and Atmosphere Variability and Prediction. University of Reading, U.K.
<u>5-8 Sep 2005:</u>	ENSEMBLES general assembly. Athens, Greece.
<u>28-30 Nov 2005:</u>	1 st British-Cuban workshop on climate change – a regional challenge with a global impact, Havana, Cuba.
<u>25-28 Mar 2006:</u>	ENSEMBLES workshop on extreme climatic events and impacts. Riederalp, Switzerland.
<u>19 Apr 2006:</u>	Royal Meteorological Society meeting. Forecasting UK and European winters. London, U.K.
<u>20 Apr 2006:</u>	Workshop on monthly and seasonal predictability and predictions over the European sector. ECMWF, Reading, U.K.
<u>4-6 Sep 2006:</u>	First Ocean Land Atmosphere Model (OLAM). CPTEC, Cachoeira Paulista, Brazil.
<u>8-10 Nov 2006:</u>	CPTEC-INMET-IRI Workshop on Climate Risk Management in the Agricultural Sector of Southeastern South America. CPTEC, Cachoeira Paulista, Brazil.
<u>29 Jan-2 Feb 2007:</u>	Third International Workshop on Verification Methods, sponsored

	by WMO/WCRP/WWRP/COST. ECMWF, Reading, U.K.
<u>4-7 Jun 2007:</u>	World Climate Research Programme (WCRP) Workshop on Seasonal Prediction. Barcelona, Spain.
<u>7-8 Jun 2007:</u>	Joint ENSEMBLES/WCRP meeting on seasonal and interannual prediction. Barcelona, Spain.
<u>18-22 Jun 2007:</u>	Summer school in statistical downscaling. University of Lodz, Lodz, Poland.
<u>17-19 Mar 2008:</u>	1 st EUROBRISA workshop. Paraty, Brazil.
<u>27-30 Apr 2008:</u>	14 th Amazonian medicine congress. Belem, Brazil.
<u>26-27 May 2008:</u>	2 nd Workshop on climate, statistics and health. Natal, Brazil.
<u>21-23 Oct 2008:</u>	1 st Iberoamerican workshop on seasonal prediction. Guayaquil, Ecuador.
<u>10-13 Nov 2008:</u>	CLARIS LPB project kick-off meeting. Buenos Aires, Argentina.
<u>4-5 Jun 2009:</u>	1 st Para State workshop on regional climate prediction. Belem, Brazil.
<u>21-24 Jul 2009:</u>	2 nd EUROBRISA workshop. Dartmoor, Devon, U.K.
<u>28 Jun – 2 Jul 2010:</u>	Meeting of the CBS Expert Team on Extended and Long-range Forecasting, Exeter, U.K.
<u>27-29 Sep 2010:</u>	Joint meeting of the Working Group on Societal and Economic Reserach Applications (SERA) and the Joint Working Group on Forecast Verification Research (JWGFVR). Toulouse, France.
<u>12-14 Oct 2010:</u>	CCI/CBS Intercomission Expert Meeting on Scoping Global Seasonal Climate Updates. Geneva, Switzerland.
<u>14-15 Dec 2010:</u>	3 rd EUROBRISA workshop. Barcelona, Spain.
<u>27-29 Apr 2011:</u>	WMO Consultation Meeting on Implementation of Regional Climate Centres in South America, INMET, Brasilia, Brazil.
<u>21 June –1 July 2011:</u>	ANAMS NOAA USAID UCAR International Training Workshop on Climate Variability and Predictions for the Atlantic Basin, Dakar, Senegal.
<u>18-22 Jul 2011:</u>	Workshop on Hierarchical Modeling of Climate, ICTP, Trieste, Italy.
<u>8-10 Sep 2011:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). Belin, Germany.

<u>12-14 Oct 2011:</u>	First meeting of the Expert Team on Regional Climate Centres (ET RCC), DWD, Offenbach, Germany.
<u>5-7 Dec 2011:</u>	5th International Verification Methods Workshop, Bureau of Meteorology, Melbourne, Australia.
<u>20-22 Feb 2012:</u>	PICREVAT Workshop. Predictability of climatic information to reduce the vulnerability of tropical agriculture, Embu, Kenya.
<u>26-30 Mar 2012:</u>	Meeting of the Expert Team on Extended and Long-Range Forecasting (ET-ELRF), Geneva, Switzerland.
<u>4-6 Jun 2012:</u>	CLIVAR VAMOS Workshop on modeling and predicting climate in the Americas, Pretrópolis, Brazil.
<u>2-7 Sep 2012:</u>	ECMWF seminar on seasonal prediction. Reading, U.K. Invited talk: "The use of seasonal climate predictions in South America"
<u>6-7 Nov 2012:</u>	Joint ECOMS kick-off meeting: EUPORIAS, NACLIM and SPECS. Seasonal to Decadal Forecast towards Climate Services, Barcelona, Spain
<u>8-12 Nov 2012:</u>	3 rd Brazilian-German Frontiers of Science and Technology Symposium. Brasília, Brazil
<u>11-12 Dec 2012:</u>	Workshop for planning the development and implementation of regional climate services in Southeast South America, Buenos Aires, Argentina
<u>13-16 May 2013:</u>	International workshop on seasonal to decadal prediction. Toulouse, France
<u>22-26 Jul 2013:</u>	58 th Annual meeting of the Brazilian region of the international biometric society, and 15 th Applied statistics symposium for agronomic experimentation. Campina Grande, Brazil
<u>12-15 Sep 2013:</u>	4 th Brazilian-German Frontiers of Science and Technology Symposium. Potsdam, Germany
<u>24-26 Oct 2013:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). Macau, China
<u>25-27 Nov 2013:</u>	Workshop on Operational LRF: GPCs and RCCs, in support of NMHSs and RCOFs, Brasília, Brazil
<u>14 Feb 2014:</u>	1 st Subseasonal to seasonal steering group meeting, College Park, USA.
<u>10-14 Mar 2014:</u>	Meeting of the CBS/CCI Expert Team on Operational Predictions from Sub-seasonal to Longer time-Scales, Exeter, U.K.

<u>3-5 Jul 2014:</u>	WMO 16 th session of the Commission for Climatology (CCI-16). Heidelberg, Germany
<u>22 Aug 2014:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). Montreal, Canada
<u>22 Aug 2014:</u>	2 nd Subseasonal to seasonal (S2S) prediction steering group meeting, Montreal, Canada
<u>23 Aug 2014:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). Montreal, Canada
<u>1-3 Sep 2014:</u>	1 st Regional Workshop of presentation and coordination of the EUROCLIMA project activities. Jointly organized by IICA (Instituto Interamericano de Cooperación para la Agricultura) and JRC (European Union Joint Research Centre). Mexico City, Mexico
<u>22-24 Oct 2014:</u>	3 rd SPECS project General Assembly. Toulouse, France
<u>10-13 Feb 2015:</u>	Expert forum on disaster risk reduction (DRR) in a changing climate: Lessons learned on lessons learned. Antalya, Turkey
<u>26-28 Feb 2015:</u>	Humboldt Colloquium “Research Excellence in a Globalised World – Experiences and Challenges from a Brazilian-German Perspective”. São Paulo, Brazil
<u>9-10 Mar 2015:</u>	Bi-regional meeting on Climate Services and Brokerage event. Buenos Aires, Argentina
<u>9 Jun 2015:</u>	2 nd Natural resources seminar. UNIFEI. Itajubá, Brazil
<u>22-26 Jun 2015:</u>	3 rd Subseasonal to Seasonal (S2S) prediction Steering Group meeting and the workshop on S2S Predictability of Monsoons. Jeju, Republic of Korea
<u>21-23 Sep 2015:</u>	Meetings of CCI/CBS Joint Expert Team on Regional Climate Centres (ET-RCCs) and the CCI Task Team on Regional Climate Outlook Forums (TT-RCOFs). Melbourne, Australia
<u>11-15 Apr 2016:</u>	Meeting of the CBS/CCI Expert Team on Operational Predictions from Sub-seasonal to Longer time-Scales, Beijing, China
<u>23-27 May 2016:</u>	Meeting of CBS Implementation Coordination Team (ICT) of the OPAG on Data-Processing and Forecasting Systems (DPFS), Exeter, U.K.
<u>16 Sep 2016:</u>	16 th European Meteorological Society (EMS) Annual Meeting, 11 th European Conference on Applied Climatology (ECAC). Trieste, Italy

<u>19-21 Sep 2016:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). ARPA, Bologna, Italy
<u>22 Sep 2016:</u>	Seminar Sustainable Future to foster collaborative research between Brazil and Norway. PUC, Rio de Janeiro, Brasil
<u>3-4 Oct 2016:</u>	5 th SPECS project General Assembly. Exeter, U.K.
<u>6-8 Dec 2016:</u>	Developers meeting on the GFCS-relevant climate data, products and tools. World Meteorological Organization (WMO), Geneva, Switzerland
<u>6 and 8 May 2017:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). Institute for Meteorology. Free University of Berlin, and VKU Forum, Berlin, Germany
<u>7 May 2017:</u>	Workshop on weather information value chain approaches to developing HIWeather RDP and FDPs. Institute for Meteorology. Free University of Berlin, Berlin, Germany
<u>8-11 May 2017:</u>	7th International Verification Methods Workshop, VKU Forum, Berlin, Germany
<u>19-21 June 2017:</u>	Climate Science for Service Partnership (CSSP) Brazil Annual science workshop. INPE, São José dos Campos, Brazil
<u>5-7 Sep 2017:</u>	WMO Workshop on Global Review of Regional Climate Outlook Forums, Guayaquil, Ecuador
<u>9-13 Oct 2017:</u>	Pan-WCRP Modelling Groups Meeting and Seasonal (S2S) prediction Steering Group meeting, Exeter, U.K.
<u>6 Dec 2017:</u>	Work package 2 CLIMAX meeting, Brasília, Brazil
<u>7-8 Dec 2017:</u>	2 nd CLIMAX project general meeting, Brasília, Brazil
<u>12-16 Feb 2018:</u>	Meeting of CBS Implementation Coordination Team (ICT) of the OPAG on Data-Processing and Forecasting Systems (DPFS), Geneva, Switzerland
<u>30 May-1 Jun 2018:</u>	Second WMO workshop on operational climate prediction (OCP-2), Barcelona, Spain
<u>2 and 4-6 June 2018:</u>	Meeting of the CBS/CCI Expert Team on Operational Predictions from Sub-seasonal to Longer time-Scales, Barcelona, Spain
<u>12-14 June 2018:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). UK Met Office, Exeter, U.K.

<u>25-27 June 2018:</u>	Climate Science for Service Partnership (CSSP) Brazil Annual science workshop. UK Met Office, Exeter, U.K.
<u>21-22 Sep 2018:</u>	Seasonal (S2S) prediction Steering Group meeting, Boulder, USA
<u>5-7 Nov 2018:</u>	3 rd CLIMAX project general meeting, Buenos Aires, Argentina
<u>12-14 Nov 2018:</u>	WMO International Workshop on Global Review of Regional Climate Center Operations, Pune, India
<u>21 Nov 2018:</u>	Workshop: Social sciences and climate services, Cachoeira Paulista, Brazil
<u>3-7 Dec 2018:</u>	Long-range forecasting guidance authors writeshop, Geneva, Switzerland
<u>1-2 Apr 2019:</u>	Seasonal (S2S) prediction Steering Group meeting, Reading, U. K.
<u>2-5 Apr 2019:</u>	Workshop on predictability, dynamics and applications research using the TIGGE and S2S ensembles. Reading, U. K.
<u>21-23 May 2019:</u>	Meeting of the WWRP/WGNE Joint Working Group on Forecast Verification Research (JWGFVR). BOM, Melbourne, Australia
<u>3-5 Jul 2019:</u>	Climate Science for Service Partnership (CSSP) Brazil Annual science workshop. INPA, Manaus, Brazil
<u>19-24 Aug 2019:</u>	Advanced School and Workshop on American Monsoons: Progress and Future plans. ICTP-SAF, São Paulo, Brazil
<u>2-5 Sep 2019:</u>	ECMWF Annual Seminar. Subseasonal and seasonal forecasting: recent progress and future prospects. Reading, U. K.
<u>1-4 Oct 2019:</u>	Twelfth Session of the Scientific Steering Committee (SSC) for the World Weather Research Programme (WWRP). Geneva, Switzerland
<u>10-13 Nov 2019:</u>	4 th CLIMAX project general meeting, Foz do Iguaçu, Brazil
<u>4-7 Feb 2020:</u>	Meeting of the CBS/CCI Expert Team on Operational Predictions from Sub-seasonal to Longer time-Scales, Offenbach, Germany (online)
<u>8-9 Jun 2020:</u>	Climate Science for Service Partnership (CSSP) Brazil Annual science workshop. Online.
<u>22-24 Sep 2020:</u>	Seasonal (S2S) prediction Steering Group meeting. Online.

<u>27-30 Oct 2020:</u>	Thirteenth Session of the Scientific Steering Committee (SSC) for the World Weather Research Programme (WWRP). Online.
<u>2-5 Nov 2020:</u>	35 th Session of the Working Group on Numerical Experimentation (WGNE). Online.
<u>2-20 Nov 2020:</u>	International Verification Methods Workshop Online (2020-IVMW-O).
<u>27-29 Sep 2021:</u>	Climate Science for Service Partnership (CSSP) Brazil Annual science workshop. Online.
<u>28 Sep - 1 Oct 2021:</u>	Fourteenth Session of the Scientific Steering Committee (SSC) for the World Weather Research Programme (WWRP). Online.
<u>19-21 Oct 2021:</u>	Seasonal (S2S) prediction Steering Group meeting. Online.
<u>1-4 Nov 2021:</u>	36 th Session of the Working Group on Numerical Experimentation (WGNE). Online.
<u>3 Dec 2021:</u>	CLIMAX project (Brazil component) final dissemination meeting
<u>17 Dec 2021:</u>	Meeting of the INFCOM Expert Team on Operational Climate Prediction System. Online.
<u>During 2021 and 2022:</u>	Online meetings of the SERCOM Expert Team on Climate Services Information System Operations.
<u>During 2020, 2021 and 2022:</u>	Online meetings of the WWRP/WGNE Joint Working Group on Forecast Verification Research.
<u>8-9 Mar 2022:</u>	Workshop on the Development of GDPFS Requirements for the Operational Exchange of Data and Products needed for Delivery of Sub-seasonal and Seasonal Prediction Products to meet needs of End-Users. Online.

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