

Advanced School and Workshop on American Monsoons Program

19/08 Monday	Introduction and main features of SAMS and NAMS	
09:00-09:20	Alice Grimm	Welcome and Introduction
09:20-10:10	Wenju Cai	ENSO under greenhouse warming
10:10-11:00	Manoel Gan	Main features and Life cycle –SAMS - Observations
11:00-11:20		Coffee break
11:20-12:10	Iracema Cavalcanti	Main features and Life cycle –SAMS - model results
12:10-13:00	Francina Dominguez	Main Features of the North American Monsoon
13:00-14:30		Lunch
14:30-15:40	Oral session	Oral presentations – 4 presentations of 20 minutes
15:40-16:00	Discussions	Summary and needs for future work
16:00-17:30	Poster Session+ Coffee break	

20/08 Tuesday	Variability on diurnal, mesoscale and synoptic time scales; subseasonal to seasonal variability	
09:00-09:50	Rong Fu	Connections between South and North American monsoons
09:50-10:40	Maria Assunção Silva Dias	Diurnal and local variability of the South American Monsoon with possible effects of aerosol
10:40-11:00		Coffee break
11:00-11:50	Alice Grimm	Subseasonal variability of the South American monsoon
11:50-12:40	Marcelo Barreiro	Regional and remote controls of the South Atlantic Convergence Zone
12:40-14:10		Lunch
14:10-15:30	Oral session	Oral presentations – 4 presentations of 20 minutes
15:30-16:00	Discussions	Summary and needs for future work
16:00-17:30	Poster Session+ Coffee break	

21/08 Wednesday	Variability on interannual and decadal/interdecadal time scales; modulation of extreme events by climate variability; longer term variability and climate change	
09:00-09:50	Alice Grimm	Variability of the South American monsoon on interannual and decadal/ interdecadal time scales
09:50-10:40	Mary Kayano	Pacific and Atlantic multidecadal oscillations: relations to the ENSO and effects on the South American rainfall
10:40-11:00		Coffee break
11:00-12:20	Oral session	Oral presentations – 4 presentations of 20 minutes
12:20-13:50		Lunch
13:50-15:20	Poster Session+ Coffee break	
15:20-16:10	Pedro Silva Dias	Paleoclimatic aspects of the South American monsoon
16:10-17:00	Leila Carvalho	Present and future of the South American Monsoon in a Warming Climate
17:00-17:30	Discussions	Summary and needs for future work

22/08 Thursday	Predictability and prediction (weather, sub-seasonal, seasonal and longer lead times); modelling studies	
9:00-9:50	Tereza Cavazos	Intercomparison of observed and simulated climatic trends in the North American Monsoon
9:50- 10:40	Caio Coelho	Design and assessment of a Brazilian global sub-seasonal prediction system
10:40-11:00		Coffee break
11:00-11:50	Alice Grimm	Sub-seasonal prediction of South American summer monsoon active and break phases
11:50-12:20		Discussions on the needs of modeling studies
12:20-12:40		Interactions with students and main “take home” messages from the topics of the first 4 days”
12:40-14:10		Lunch
14:10-15:30	Oral session	Oral presentations – 4 presentations of 20 minutes
15:30-16:00	Discussions	Summary and needs for future work
16:00-17:30	Poster Session+ Coffee break	

23/08 Friday	Impacts on society; future challenges; plans for observational studies, diagnostic analyses, and modelling activities.	
9:00-9:50	Christopher Cunningham	Climate and weather extremes during the South American Monsoon season within the context of Disaster Risk Reduction - The CEMADEN Experience
9:50- 10:40	Cecilia Hidalgo	Collaborative processes in action: climate services and impact-based forecasts for southern South America
10:40-11:00		Coffee break
11:00-11:50	Leila Carvalho	Statistical methods to analyze climate variability in the South America Monsoon region
11:50-12:10	Clyde Fraisse	The AgroClimate project: Developing solutions to climate challenges in agriculture
12:10-12:40	Discussions	Summary and needs for future work
12:40-14:10		Lunch
14:10-15:00	Poster Session+ Coffee break	
15:00-16:00		Closing session: Summary of the status of knowledge, future challenges and collaborative studies

24/08 Saturday	Discussions on future collaboration.	
9:00-11:00	Meeting of the Working Group on American Monsoons	

Short Talks:

19/08 Monday

1. Elisa Thomé Sena (Brazil, PhD): Shortening of the Amazon's rainy season detected using satellite cloudiness observations
2. Michelle Simões Reboita (Brazil, PhD): South American Monsoon System Lifecycle Simulated by RegCM4.7
3. Tessa Montini (USA, PhD student): Objective categorization of SALLJ events by a Principal Components Analysis of synoptic-scale conditions
4. Charles Jones (USA, PhD): Recent changes in the South America low-level jet

20/08 Tuesday

1. Johanna Yepes (Colombia, PhD Student): The diurnal cycle of precipitation and gravity waves over the rainiest place on Earth
2. Tania Katherine Ita Vargas (Peru, USA, MSc Student): Synoptic Patterns Associated with Wet Season Onset in the Tropical High Andes of Southern Peru and Bolivia
3. Yoel Alejandro (Mexico, PhD Student): Synoptic climatology and large-scale circulation patterns over Mexico
4. Paris Rivera (Guatemala, PhD Student): Influence of the MJO on the southern region of Guatemala

21/08 Wednesday

1. Luis Blacutt (Bolivia, PhD): Precipitation variability on the Mamoré Basin
2. Miguel Lovino (Argentina, PhD): Variability and changes of daily extremes over northeastern Argentina
3. Marcia Terezinha Zilli (Brazil, PhD): Attribution Analysis of Southwestward Shift of the South Atlantic Convergence Zone-related precipitation during the last decades

22/08 Thursday

1. Isabel Cristina Hoyos Rincón (Colombia, PhD): Interchange of atmospheric moisture among South America catchment basins
2. Armenia Franco-Díaz (Great Britain, PhD Student): The contribution of tropical cyclones to the atmospheric branch of Middle America's hydrological cycle

3. José Pablo Vega-Camarena (Mexico, PhD): Contrasting rainfall behavior between the Pacific coast and the Mexican Altiplano
4. Victor Manuel Torres Puentes (Mexico, USA, PhD Student): The relationship between Easterly Waves over the Eastern Pacific and the Monsoon of North America

Posters

19/08 Monday and 20/08 Tuesday

1. Renan Martins Pizzochero (Brazil, MSc Student): The Southern Annular Mode influence on South America Monsoon System
2. Luciana Figueiredo Prado (Brazil, PhD): Central Brazil precipitation variability during the last eight decades -
3. Marília de Carvalho Campos (Brazil, PhD Student): New insights about South American hydroclimate changes during Heinrich stadials
4. Marta Pereira Llopart (Brazil, PhD): Intraseasonal variability on precipitation climate projections in the South American Monsoon Region
5. Kenedy Cipriano Silverio (Mozambique, PhD student): The importance of South America monsoon system on Southern Africa monsoon rainfall variability
6. Nicole Cristine Laureanti (Brazil, MSc student): The influence of different scales of global SST variability modes on precipitation characteristics during the South American monsoon season
7. Laís Gonçalves Fernandes (Brazil, PhD student): MJO impacts on South American precipitation and extreme events in El Niño years
8. Naurinete Barreto (Brazil, PhD): The South American Monsoon System and the Madden Julian Oscillation
9. André Luiz Leturiondo Segundo (Brazil, Undergraduate student): Case Study of Extreme Precipitation Event in Manaus Associated with the Monsoon Regime and its Predictability
10. Mariah Sousa Gomes (Brazil, PhD student): Droughts in the South American Monsoon region
11. Cristian José Febre Pérez (Peru, Meteorologist): Cause of severe droughts in southern Peru (1961 – 2016)

12. Marilia Harumi Shimizu: (Brazil, PhD): Seasonal changes of the South American monsoon system during the Mid-Holocene in the CMIP5 simulations

13. Fernanda Cerqueira Vasconcellos (Brazil, PhD): Atmospheric variability related to extreme summer precipitation over Rio de Janeiro State

21/08 Wednesday and 22/08 Thursday

1. Isabel Ramos Parado (Peru, Meteorologist): Rainfall in the Peruvian Amazon_Andes associated with the South American monsoon

2. Fabio Pinto da Rocha (Brazil, Meteorologist) : Identification of Moisture Convergence Zone (MCZ) in a select cases during the South America Moonson System(SAMS) -

3. Vivian Bauce Machado Arsego (Brazil, PhD student): Preliminary evaluation of the seasonal forecasts of the Brazilian global atmospheric model during the rainy season of the South American Monsoon System

4. Eugenia Maria Garbarini (Argentina, PhD student): Connection between sea surface temperature and low-level geopotential height patterns in the South Atlantic Ocean

5. Alan García Rosales (Peru, MSc Student): Spatio-temporal variability of WRF precipitation associated with the regional and local circulation in the Tropical Andes (Rio Santa Basin, Peru)

6. Santiago Ignacio Hurtado (Argentina, PhD student): Precipitation variability over subtropical Argentina linked to SALLJ changes

7. Luana Aparecida Scheibe (Brazil, Undergraduate student): Subseasonal prediction of active and break episodes of South American monsoon

8. Thales Alves Teodoro (Brazil, MSc Student): Validation of the turbulent flows of latent and sensitive heat in the simulation of REGCM4.7

9. Renata Novaes Calado: (Brazil, PhD student): SACZ associated with extreme Rainfall in the Southeast Brazil: Synoptic Analyses and ensemble forecast evaluation

10. Jaci Maria Bilhalva Saraiva (Brazil, Meteorologist): The monsoon regime in several regions of the Brazilian Western Amazon

11. Furqon Alfahmi (Indonesia, PhD): The Impact of Concave Coastline on Increasing Rainfall Offshore Over Indonesian Maritime Continent

12. Douglas da Silva Lindemann (Brazil, PhD): Atlantic Multidecadal Oscillation (AMO) relations with the South Atlantic Convergence Zone (SACZ): past variations and future projections

13. Juan Neres de Souza (Undergraduate student): Evaluation of the Sea Surface Temperature anomalies in the Subtropical South Atlantic Ocean region