

SPSAS Climate Change

3-15 July 2017, São Paulo, Brazil

The Advanced School will include theoretical classes, work in groups, poster sessions, science-policy discussions, and visits to key institutions in the State of São Paulo conducting climate change research with policy applications:

- CEMADEN (Centro Nacional de Monitoramento e Alertas de Desastres Naturais)
- CPTEC (Centro de Previsão de Tempo e Estudos Climáticos).

The School is organized around five major themes:

1. Observations and Future Projections (Scientific basis)

- Introduction: indicators of climate change and treatment of uncertainties (**José A. Marengo**)
- Observations: atmosphere, ocean and surface (**José A. Marengo**)
- Detection and attribution of climate change: from global to regional (**José A. Marengo**)
- Information from paleoclimate archives (**Cristiano Chiessi**)
- Evaluation of climate models & tendencies (**Iracema Cavalcanti**)

2. Impacts

- Impacts of modes of climate variability: monsoon, ENSO, annular modes (**Iracema Cavalcanti**)

3. Vulnerability

- Urban areas in the global change context (**Maria de Fatima Andrade**)
- Natural and managed resources and systems, and their uses (freshwater resources; coastal systems and low-lying areas) (**Gerardo Perillo**)
- Societies' and economies' vulnerability related to water insecurity by climate change (**Stefan Uhlenbrook**)
- Natural and managed resources and systems, and their uses (food security and food production systems) (**Weber Amaral**)
- Human health, well-being, and security (human health: impacts, adaptation, and co-benefits; human security; livelihoods and poverty) (**Maria Carmen Lemos**)

4. Adaptation and Mitigation

- Adaptation (adaptation needs and options; adaptation planning and implementation; adaptation opportunities, constraints, and limits; economics of adaptation) (**Edwin Castellanos**)
- Agriculture, forests and other land uses (**José Paruelo**)
- Consequences on ecosystem functioning and ecosystem services provision (**José Paruelo**)
- New Maps & New Destinations in our Age of Discovery (**Christopher Kutarna**)

5. The Paris Agreement: Are 1.5 degrees a reasonable limit?

- A debate (**Inés Camilloni & Holm Tiessen**)

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FIRST WEEK

Monday (03)	Tuesday (04)	Wednesday (05)	Thursday (06)	Friday (07)	Saturday (08)
08:00 – 10:00 Student registration 10:00 – 11:00 Opening remarks: Tercio Ambrizzi Pedro Dias Marcella Ohira 11:00 – 11:20 Coffee break 11:20 – 11:40 FAPESP (Newton La Scala Junior) 11:40 – 12:30 SPSASCC information (Tercio Ambrizzi)	09:00 – 10:30 Class: José A. Marengo 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: José A. Marengo	09:00 – 10:30 Class: Cristiano Chiessi 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: Cristiano Chiessi	09:00 – 10:30 Class: Iracema Cavalcanti 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: Iracema Cavalcanti	09:00 – 10:30 Class: Gerardo Perillo 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: Gerardo Perillo	09:30 – 10:45 Poster session 10:45 – 11:00 Coffee break 11:00 – 12:15 Poster session
12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	
14:00 – 17:30 Class: José A. Marengo 15:30 – 16:00 Coffee break 16:00 – 17:30 Class: José A. Marengo	14:00 – 15:30 Class: José A. Marengo 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: José A. Marengo 19:00 – 21:00 Networking dinner	14:00 – 15:30 Class: Iracema Cavalcanti 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: Iracema Cavalcanti	14:00 – 15:30 Class: Maria de Fatima Andrade 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: Maria de Fatima Andrade	14:00 – 15:00 Skype: Stefan Uhlenbrook 15:00 – 16:15 Poster session 16:15 – 16:30 Coffee break 16:30 – 17:45 Poster session	

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SECOND WEEK

Monday (10)	Tuesday (11)	Wednesday (12)	Thursday (13)	Friday (14)	Saturday (15)
08:30 – Official photo 09:00 – 10:30 Class: Weber Amaral 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: Weber Amaral	09:00 – 10:30 Class: Edwin Castellanos 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: Edwin Castellanos	06h20 – buses leave hotel to IAG 06h45 – buses leave IAG to CEMADEN 09:00 – 12:00 Visit to CEMADEN, São José dos Campos	09:00 – 10:30 Class: José Paruelo 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: José Paruelo	09:00 – 10:30 Class: Christopher Kutarna 10:30 – 11:00 Coffee break 11:00 – 12:30 Class: Christopher Kutarna	09:00 – 10:30 Discussions within the WGs (guidance: Inés Camilloni & Holm Tiessen) 10:30 – 11:00 Coffee break 11:00 – 12:30 Presentation based on each WG's discussion to the whole class
12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:00 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 13:00 Closing of the Advanced School
14:00 – 15:30 Class: Maria Carmen Lemos 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: Maria Carmen Lemos	14:00 – 15:30 Class: Edwin Castellanos 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: Edwin Castellanos	14:00 – 17:00 Visit to CPTEC, Cachoeira Paulista	14:00 – 15:30 Class: José Paruelo 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: José Paruelo	14:00 – 15:30 Class: Inés Camilloni & Holm Tiessen 15:30 – 16:00 Coffee break 16:00 – 18:00 Class: Inés Camilloni & Holm Tiessen Students to divide into working groups (WGs)	