



Project Report

Report of the 13th Session of the VAMOS Panel

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1 Executive Summary

The 13th Session of the CLIVAR VAMOS Panel (VPM13) was held on 29-31 July 2010, in Buenos Aires, Argentina, and hosted by the Comisión Nacional de Actividades Espaciales (CONAE), the Servicio Meteorológico Nacional (SMN), and the Instituto Tecnológico Buenos Aires (ITBA). VPM13 was held jointly with the 13th session of the Working Group on Seasonal to Interannual Prediction (WGSIP), which included a one day joint session of the two groups. The presentations given by the meeting participants are available at the meeting webpage

(http://www.clivar.org/organization/vamos/Meetings/VPM13_meet.php)

The meeting focused on the progress and plans of the VAMOS projects, particularly the North American Monsoon Experiment (NAME), the Monsoon Experiment South America (MESA), La Plata Basin, the VAMOS Ocean-Cloud-Atmosphere-Land Study (VOCALS), and the Intra-American Seas study of Climate Processes (IASCLIP). The panel also discussed the VAMOS contributions to the WCRP cross-cutting themes, as those coming up from the VAMOS Extremes WG, the ACC along the Americas, and activities related to Capacity Building. The implementation of the VAMOS modeling plan was also discussed during the joint VAMOS-WGSIP session. Discussions were held on future VAMOS priorities and how they will fit in the new structure of WCRP. Particular emphasis was put on the linkage between regionally oriented activities in VAMOS and the more global approach that WCRP is emphasizing.

2 List of Actions and Statements from VPM13

VAMOS Extremes WG

1. Expand the analysis of extremes including more information of the North American region and time scales (I. Cavalcanti and S. Schubert)
2. Develop an ATLAS of extremes over the Americas (I. Cavalcanti and S. Schubert to lead and VAMOS WG on Extremes)
3. Interact with ETCCDI to apply softwares and indices prepared in that project as well as with CLARIS-LPB which has been developing studies on extremes over La Plata Basin, in South America (I. Cavalcanti and S. Schubert to lead and VAMOS WG on Extremes)
4. Evaluate the existing and planned simulations, including the new results from CMIP5 IPCC/AR5, regional model results from CLARIS-LPB, seasonal hindcasts, ultra-high resolution (10-20km) global climate model simulations (I. Cavalcanti and S. Schubert to lead and VAMOS WG on Extremes)
5. Obtain support for the activities of Siegfried Schubert through the VAMOS Project Office (J. Meitin)

VAMOS ACC Working Group

6. Reshape and enhance the working group, rebuilding the group and structure, and including other experts on climate change in the Americas (T. Cavazos and VAMOS co-chairs)
7. Rewrite the VAMOS Anthropogenic Climate Change (ACC) in the Americas white paper, updating information to serve as a synthesis report for IPCC AR5 (T. Cavazos and VAMOS extreme WG)

VOCALS/AIP Tropical Atlantic Biases Workshop

8. Review the future activities for VOCALS, including the analysis of VOCALS datasets and monitoring of the region to obtain longer time series (Mechoso, R. Wood, and VOCALS WG).

9. Endorse and develop a proposal for a two-day AIP/VOCALS workshop on “Tropical Atlantic Coupled Ocean-Atmosphere-Land Processes”, as appended to the VOCALS meeting in March 2011 (P. Zuidema with R. Mechoso, and AIP co-chairs L. Terray and P. Brand)

Next VAMOS panel meeting

10. VAMOS to have next panel meeting immediately after the VOCALS/AIP Workshop in Miami, and encourage the AIP to have their panel meeting simultaneously (Co-chairs and C. Ereno to negotiate and arrange details)

NAME

11. Prepare a comprehensive review article to provide a thorough overview of progress in NAM research that has been achieved over the last 10 years, and identifying 4-5 main research threads that have led to significant improvements in understanding the structure and function of the NAM system. (Gochis and NAM community).
12. Prepare a white paper outlining the new research priorities that have emerged from the NAME review article, seek to move NAM research forward, towards the ultimate goals of improved process understanding and improved prediction of the NAM on intra-seasonal to inter-annual timescales (D. Gochis and others in the NAM community)

MESA

13. Review the objectives, structure and future of MESA, in terms of the research objectives and interest of WCRP, consider the need to enlarge the community of scientists involved in SAMS research, not just for field work and modeling communities, but also the community working on applications, and climate change impacts and adaptation (J.Marengo and MESA SWG)
14. Consider the possibility of preparing a white paper outlining the research priorities that have emerged from the MESA (J.Marengo and MESA SWG)

VAMOS-LPB

15. Provide I. Cavalcanti and P. Salio with information on previous drafts for an LPB field campaign to they take the initiative and explore whether LPB would have a field campaign (H. Berbery)
16. Provide Paola Salio with information from on the use of Brazilian radars, considering Luiz Augusto Experiment (I. Cavalcanti)

Outreach, Capacity Building and Education in VAMOS

17. Develop initial ideas on some plan on the capacity building efforts in VAMOS, which endorse ongoing activities, and circulate to the panel (L. Goddard and C. Ereno, H. Berbery will contribute with some results/experiences from the IAI/LPB Summer School)

WCRP and ICPO plans

18. Initiate an email discussion on the total WCRP effort on monsoons and continued need for overall coordination (co-chairs & panel members)
19. Circulate ideas on how the panel might contribute to the WCRP Open Science Conference (C. Ereno to gather inputs)

YOTC MJO Task Force

20. Develop interactions with YOTC MJO Task Force to get synergy with VAMOS on applications of MJO TF forecast products, targeted assessment of forecast skill of MJO impact, and IASCLIP forecast forum plus the MJO Task Force forecast (C. Ereno and H. Berbery will contact Duan Waliser to identify a person to serve as link VAMOS-YOTC MJO TF)

Next issue of the VAMOS newsletter

21. Propose the Future Activities in VAMOS as main theme for the next VAMOS! Newsletter, with the following suggested articles: New priorities in NAM research, Model Biases in the Atlantic, Capacity building / Transfer of science to users, and Ecosystem Functional Types in Regional Modeling (C. Ereno coordinate with co-chairs)

Actions and Recommendations from the Joint VAMOS/WGSIP 2010

23. Make a survey within the VAMOS community to identify science and research activities that are being carried out according to the modeling plan, and use this information to modify the modeling plan if needed. (C. Saulo and B. Kirtman)

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Annex B – VPM13 Agenda

Thirteenth Annual Meeting of the
WCRP/CLIVAR/VAMOS Panel (VPM13)
Buenos Aires, Argentina, 29-31 July 2010

Hosted by Comisión Nacional de Actividades Espaciales (CONAE)
Servicio Meteorológico Nacional (SMN)
Instituto Tecnológico Buenos Aires (ITBA)

Thursday, July 29, 2010 - Morning Session, Plenary - Reports

Chair: Hugo Berbery

9:00 am Welcome

- Local welcome

- VAMOS Co-Chairs H. Berbery

9:10 am	Local	Carolina Vera
9:20 am	VAMOS Chairs' Report	H. Berbery/J. Marengo
9:35 am	US CLIVAR	D. Legler presented by H. Berbery
9:45 am	CLIVAR SSG issues & outcomes	C. Ereño
10:00 am	Update on NOAA Climate Program	J. Huang
10:20 am	<i>Morning break</i>	

Chair: Tereza Cavazos

10:50 am	WCRP (Reestructuration)	Carolina Vera
11:10 am	NAME's New Science Priorities	Dave Gochis
11:40 am	Tropical bias in the tropical Atlantic	Ping Chang
12:00 pm	YOTC Task Force on MJO	Chidong Zhang
12:20 pm	<i>Lunch</i>	

Afternoon Session, Plenary – Reports

Chair: Iracema Cavalcanti

2:00 pm	An Update on VAMOS Extremes Working Group Activities and Plans	S. Schubert/I. Cavalcanti
2:20 pm	VOCALS Progress and Plans	Roberto Mechoso
2:40 pm	MESA's Achievements	Jose Marengo/Tercio Ambrizzi
3:00 pm	IASCLIP Progress	Dave Enfield
3:20 pm	IASCLIP observations	Paquita Zuidema
3:40 pm	<i>Afternoon break</i>	
4:00 pm	VAMOS and THORPEX	C. Saulo
4:20 pm	Capacity Building	L. Goddard
4:40 pm	General Discussion on VAMOS and the Climate across the Americas	
6:00 pm	<i>Adjourn</i>	

Friday, July 30, 2010 - Morning Session, Plenary – Climate Science in the Region

Chair: Chidong Zhang

9:00 am [VAMOS Project Office](#) J. Meitin/S. Williams
 9:20 am [Climate predictability in Southeastern South America](#)
 Marcelo Barreiro
 9:40 am [El Nino events in different PDO phases](#) Tercio Ambrizzi
 10:00 am [Climate Variability at Interannual and interdecadal timescales](#)
 Aldo Montecinos
 10:20 am **Morning break**

Chair: Dave Gochis

10:50 am [Regional datasets](#) Olga Penalba
 11:10 am [Mesoscale Convective Systems](#) Paola Salio
 11:30 am [Biomass burning and transports](#) Graciela Ulke
 11:50 am [Land surface forcing in climate modeling](#) Anna Sörensson
 12:10 pm [ACC in VAMOS](#) Tereza Cavazos
 12:30 pm **Lunch**

Friday, July 30, 2010 - Afternoon Session, Plenary – Climate across the Americas

Chair: Hugo Berbery

2:00 pm [Aquarius/SAC-D Mission Overview](#) Monica Rabolli (CONAE)
 2:20 pm - General discussion on interactions with other Panels:
 Model biases workshop, AIP/VOCALS/IASCLIP
 - VAMOS Future Plans and Paths

3:40 – 4:00 pm *Afternoon break*

4:00 pm **Executive session**
 - VAMOS Future and Priorities
 - VAMOS ICPO plans
 - WG on Extremes
 - WG on ACC
 - VAMOS Modeling and interactions with WGSIP and WGCM
 - Initiative in Outreach, Capacity Building, and Education (should VAMOS have one?)
 - Next issue of VAMOS newsletter, funding and themes
 - VAMOS panel membership
 - Issues/actions for VAMOS Panel
 6:30 pm **Adjourn**

Saturday, July 31, 2010 - Morning Session, Joint VAMOS/WGSIP

Chair: Adam Scaife

9:00 am **Overview of S. American Projects**

- [CLIVAR/GEWEX Project for La Plata Basin \(LPB\)/CLARIS-LPB](#)

H. Berbery

- [CORDEX plans for S. America](#)

S. Solman

[Model biases](#)

R. Mechoso

[Overview of SIP in S. America](#)

Pedro Leite

VAMOS-WGSIP Modeling Collaboration

[Forecast metrics for VAMOS applications](#)

C. Saulo

[Update of CHFP project & VAMOS Modeling Plan](#)

B. Kirtman

Develop Plans for Implementation and Future Experiments

B. Kirtman

12:30 pm **Lunch**

Saturday, July 31, 2010 - Afternoon Session, Joint VAMOS/WGSIP

Chair: Celeste Saulo

2:00 pm [Subseasonal Prediction](#)

A. Kumar

Invited talks on S. American research

[Downscaling applications to hydrological models](#)

Ramiro Saurral

[Land-atmosphere coupling](#)

Anna Sorensson

[Climate variability and extremes](#)

Federico Robledo

[Seasonal Forecast at National Meteorological Service of Argentina](#)

L. Aldeco/J.M.

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5:30 pm **VPM13 & WGSIP13 ends**

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