

Meeting Minutes of CLIVAR/GEWEX Monsoons Panel

MEETING INFORMATION

Meeting Number	2022-3	Meeting Title	CLIVAR/GEWEX MP Teleconference
Objective/Purpose	Discuss the Agenda Items below and progress on action items		
Time & Date	22 November 2022 06:00-07:00 UTC	Venue	Microsoft Teams Video Tele-Conference

MEETING DETAILS

Chairperson(s)	Leila Carvalho and Suryachandra Rao Anguluri (MP Co-Chairs)	Rapporteur(s)	E.N. Rajagopal and Somnath Mahapatra
Attendees	MP: Leila Carvalho, Suryachandra Rao Anguluri, Gill Martin, Ajay Mohan Ravindran, Renguang (Randy) Wu, Mary Kilavi, IMPO: E.N. Rajagopal, Rupa Kumar Kolli, Somnath Mahapatra, Sushmitha Joseph		
Apologies	MP: Annalisa Cherchi, Mouhamadou Bamba Sylla, Rondrotiana Barimalala, Shabehul Hassan, Salvatore Pascale, Thea Turkington, Pankaj Kumar		

ACTIONS

Deadline	Action	Responsible
As and when required	Updating of contents of webpages and websites of Monsoons Panel, done to a large extent, further updates to be done whenever required	MP Co-Chairs & members
Ongoing	Continue to build connections with other panels/partners and Light House Activities (LHA) of WCRP, and make strong linkages with partner projects (e.g., GPEX Tiger Project: Annalisa, IORP: Surya). Inputs from Indian Experts towards White paper on GPEX were collected by IMPO and forwarded to WCRP Secretariat.	MP members & Co-Chairs
Done	Early Career Scientists (ECSs) have been part of Working Groups already, and they are included in the activities of Working sub-groups.	MP Co-Chairs
Done	WCRP Open Science Conference: Conveners for the Session on Global and Regional Monsoons identified - Moetasim Ashfaq, Suryachandra Rao and Andrew Turner	MP members & Co-Chairs
Preferably by 2022 end	Coordinate with regional Working groups to come up with some document for Monsoons of Asian-Australian, African, and American regions. Also provide necessary support to IMPO for its Newsletter.	MP members & Co-Chairs
6 January 2023	Send doodle poll for the next meeting by teleconference, preferably in the fourth week of January 2023	IMPO

Deadline	Action	Responsible
28 November 2022 (Done)	<ol style="list-style-type: none"> 1. Check with Co-chairs of regional WGs if they would like to nominate any of their members to the upcoming vacancies in MP membership 2. Ascertain from MP members whose tenure is ending if they are interested in continuing further. 3. Ascertain from all other MP members if they have difficulties to continue further as a member due to their other busy engagements. 	IMPO
15 January 2023	IMPO to prepare the proposal for membership updates of the CLIVAR/GEWEX Monsoons Panel for submission to ICPO and IGPO for SSG approvals	IMPO

AGENDA AND KEY OUTCOMES

Sl. No.	Description
1	<p>Opening Remarks (Leila and Surya):</p> <ul style="list-style-type: none"> ❖ Co-Chairs (Leila and Surya) welcomed all the members of MP and IMPO members present in the third meeting of Monsoons Panel of 2022 (MP 2022-3) ❖ Surya in his opening remarks mentioned the following: <ul style="list-style-type: none"> • IMPO had circulated the proposal for having a Session on Monsoons in OSC-2023 and the proposal has been approved by the SOC of OSC-2023 • With the approval of the Monsoons session at OSC-2023, there is now a chance to have a face-to-face meeting of members during OSC-2023 at Kigali. IMPO had sent out mails to ascertain how many members are available for the meeting at Kigali and has got response from only 6 members. Hence others are requested indicate their availability to IMPO as soon as possible. • MP will discuss in this meeting on the nomination of new members to MP and continuation of existing 4 members whose terms are ending this year. As a Co-chair of MP, he recommended the continuation of Leila as Co-chair and Gill Martin as member for their key role in leading monsoon research activities of MP & WGs. • IMPO is requested to contact other members to ascertain if they would like to be considered for further continuation. • Surya also informed about Mary Kayano's recent resignation, leading to another vacancy in MP.
2	<p>Updates from the Regional Working Groups:</p> <p>(A) Status & Plans of WG on Asian-Australian Monsoons [WG-AAM]: - (Gill Martin)</p> <p>1) Progress in the sub-group on Monsoon Processes and Teleconnections:</p> <ul style="list-style-type: none"> • Review of Monsoon Processes and Teleconnections in Observations and Models with a focus on prediction skill • The WG focussed on this year's monsoon given its unusual features <p>2) Progress in the sub-group on R2O for monsoon seasons in SE Asia:</p> <ul style="list-style-type: none"> • Develop a regional monsoon index for operational monitoring. • Developing a theoretical extension of "frac-sign" (Lee and McBride, 2016) so that it can potentially track monsoon onset and termination at a location, monsoon strength in a sub-region, progression of monsoon seasons over SEA continuously throughout the year, and regional variability of rainfall, OLR, temperature, specific humidity in relation to wind.

- Will follow this up empirically using SEA datasets
- Next ASEANCOF taking place next week and some members are busy with it.
- 3) Progress in the sub-group on High impact weather events:**
 - Reviewing case studies of high impact events from recent years to see how they were observed and forecast, and how decision-making was affected.
 - Monsoon 2022 will provide additional case studies, e.g., Pakistan, Sri Lanka floods
- 4) Review of this year's Asian monsoon as experienced in different regions:**
 - Meeting on 13 October was to discuss how WG can bring together their operational forecasting and scientific research experience to understand this year's monsoon and encourage further work.
 - The noticed characteristics of Monsoon 2022 were: (a) Extremes in different regions: flooding in Pakistan, India, and Sri Lanka; (b) Weaker/displaced monsoon trough over India; dry IGP region; (c) Below-normal rainfall in Nepal, Philippines, South China; (d) NW Pacific typhoon activity suppressed in July and August, recovered in Sept/Oct.; (e) Reduced MJO/BSISO activity.
 - The Large-scale conditions were: (a) La Nina ("triple-dip") since 2020; (b) Warming around MC and this year's IOD, added competing influence, leading to anomalous convergence over eastern Eq. IO, pulling jet away from the Indian peninsula especially in early season; (c) Large meander of upper-level subtropical jet, higher temperatures in mid-latitudes than normal.
 - The WG plans to:
 - ❖ Look at the Multiple scales involved (time and space). Look for evidence of small/short scale features combining with large-scale situations this year.
 - ❖ Mainly focus on the observation side first but could bring in some of the forecasting at a later stage from various centres.
 - ❖ Potentially take up two studies, namely:
 - Overview of this year's AA monsoon and how is it related to large-scale conditions, and how this was manifest in regional monsoons and extreme events
 - Forecasting of this year's AA monsoon, how this was communicated and what actions were taken (or not taken) as a result.

(B) Status & Plans of WG on African Monsoons [WG_AFM]: - (Mary Kilavi)

- ❖ The last general meeting of the WG was held on 28th October 2022
- ❖ Rondro has been nominated/appointed to replace Claudine as the Co-Chair. Claudine recently stepped down because of personal challenges.
- ❖ Ross Dixon has been nominated/appointed to replace Ismaila Diallo as the Co-lead of the West African subgroup. Ismaila stepped down from his role due to busy schedule
- ❖ The WG has decided to submit the ongoing review manuscript to the International Journal of Climatology.
- ❖ The WG proposes to have research presentations (like a seminar series) from the working group members in the WG general meetings, with Rondro leading the presentation in the next meeting in December.
- ❖ The subgroups are also asked to present proposal for their future research activities during the December general meeting.
- ❖ WG asked members who are interested in attending the OSC-2023 at Kigali to indicate if they need funding to attend.
- ❖ The WG discussed on member's commitment and active participation in working good activities/motivation to do more.

(C) Status & Plans of WG on American Monsoons [WG-AMM]: - (Leila Carvalho)

- ❖ Tereza Cavazos has stepped down as Co-chair of the WG-AMM, but continues as a member of WG-AMM
- ❖ Ruth Cerezo-Mota is now the new Co-chair (along with Alice Grimm)

	<ul style="list-style-type: none"> ❖ Group Activities: <ul style="list-style-type: none"> • WG-AMM Co-chair (Alice Grimm) is looking into the feasibility of a second edition of the Workshop and Advanced School on the American Monsoons in 2023 (or 2024). A first request for financial support has been made, but there is still no response. • WG-AMM has also submitted two activities (a roundtable and a conference on climate change and the monsoon in South America) to be included in the program of the 75th Annual Meeting of the Brazilian Society for the Progress of Science (SBPC), to be held in Curitiba in July 2023. The result has also not been released yet. • Tereza Cavazos has submitted a proposal of several conveners from the monsoon panels to chair: 1) the session on Regional and global monsoons at the WCRP OSC 2023, to be held in Kigali, Rwanda in October next year. 2) Poster Cluster on Monsoons in the same conference. Tereza is a member of the Scientific Organizing Committee of OSC-2023. • Tereza is also part of CORDEX and has requested some support from CORDEX for few early career scientists working on modelling the monsoons (from American region) to participate in the American Monsoon Meeting that Alice is looking for funding. • WG-AMM has not organised any meeting yet. They are planning to have one soon. <p>Comments from members:</p> <ul style="list-style-type: none"> • Surya intervened to mention that the regional WGs can take help of IMPO to pursue with funding agencies (WCRP, CLIVAR etc.) • Surya mentioned that WG-AAM is very active and WG-AFM's activities have started to gain momentum, however WG-AMM activities are in still planning stages only. As per CLIVAR's recommendations, MP's role is to bring out all the knowledge gained from the WGs and prepare common points. He reminded of the MP's plan for holding a Pan Monsoon Workshop incorporating all regional monsoon activities. He requested IMPO to keep reminding WGs to organize meetings regularly and extend all support. • IMPO informed that WG-AMM has agreed to have their next meeting in January 2023
3	<p>Updates (October-November 2022) & Announcements from IMPO (Rajagopal):</p> <ul style="list-style-type: none"> ❖ Monsoons session at OSC-2023 is titled as “Global & Regional Monsoons” and the proposed Conveners Moetasim Ashfaq, Suryachandra Rao and Andrew Turner ❖ Two Poster Clusters proposed by members of WG-AFM and WG-AAM has been accepted by OSC-2023. The poster clusters are: <ul style="list-style-type: none"> • PC07: Advances in monsoon science & prediction: Theory, observations, modelling & climate services with Neil Hart, Akintomide Akinsanola, Ross Dixon, Moetasim Ashfaq, Izidine Pinto, Ruth Cerezo-Mota, Tereza Cavazos, Rondrotiana Barimalala as Conveners • PC08: Extreme rainfall and temperatures over India: Forecasting challenge and role of ensemble prediction system with Raghavendra Ashrit and Partha Mukhopadhyay as Conveners ❖ Rondrotiana Barimalala & Ruth Cerezo-Mota are the new Co-chairs of WG-AFM & WG-AMM respectively w.e.f. 9th November 2022. ❖ Update on In-Person Meeting at OSC-2023: Based on a recent survey, 6 MP members and 12 WG-AFM members have indicated their availability with 10 members requiring travel funds. Hence, IMPO has submitted a funding proposal for 15 members to attend the In-person meeting – hoping few others may join with funding requirements. ❖ MP/IMPO Global Monsoon Research Summit has now been pushed to Oct-Nov 2024 based on suggestions from MP members. ❖ Status of IMPO's flagship newsletter “Monsoon Matters”: Theme agreed upon for the inaugural issue is <i>Monsoons in a Warming Climate</i>. Guest Editors for the inaugural issue are Dr. R. Krishnan, Director, IITM, Prof. Leila Carvalho, Co-Chair MP and Dr. Akintomide Afolayan Akinsanola, Co-Chair WG-AFM.

	<ul style="list-style-type: none"> ❖ Migration to OneNote & Word over SharePoint (Microsoft 365): IMPO would like to utilize the Notebook (OneNote) for MP & WGs updates and Sharepoint file system and collaborative word document for the agenda-meeting note in future MP meetings and the same can be trialed in the next MP meeting with the approval of MP. This has been recently found to be very successful by the "IPOs & WCRP Sect. Group". ❖ The 5 vacancies in MP memberships coming up in 2023 was highlighted for further discussions by MP in the meeting. The 9 nominations received from CLIVAR was projected. GEWEX nominations are awaited.
4	<p>Open Discussions on new MP Memberships (Lead: Surya):</p> <ul style="list-style-type: none"> ❖ Surya mentioned that after receiving the nominations from GEWEX the proposal can be send to Co-chairs for their recommendations and subsequently circulated to all members for their concurrence. ❖ Rupakumar informed the members about the steps involved in selection of MP members: <ul style="list-style-type: none"> • First being creating a database of received nominations from CLIVAR and GEWEX • MP can approach other monsoon experts to seek their willingness to serve as member add them to the nomination database. • MP Co-chairs can review the nominations in the database and propose 1 person for each position along with an alternate person for each position. MP can then circulate to all panel members for their comments • Once agreed by all MP members, IMPO can put the recommended names/alternate names as per CLIVAR format along with the nomination database and submit to CLIVAR/GEWEX SSGs approval. • In some situations, the SSGs may pick up names from the nomination database, overriding the MP recommendations. The final decision is the prerogative of the SSGs and MP has to accept their decision. • The MP recommendations normally must be submitted before the next In-person full SSG meeting (usually held in the beginning of the year) • SSGs prefers good geographic and gender balance. They also prefer younger scientists. • MP should target for experts who can really devote time for the Panel and avoid experts who tend to be absent/silent in meetings/e-mails. Goal should be target for dynamic and enthusiastic experts who can contribute well to the Panel ❖ Leila remarked that MP should target for Early Career Scientists as they tend to be more involved and good for the panel. Their participation in panels would be very useful for the career building ❖ Gill Martin remarked that one needs to make sure that MP is aligning well the WGs and it would be helpful to have one of the Co-chairs/members of regional WGs to avoid disconnect between MP and WGs ❖ Gill Martin mentioned that she is happy to continue for a year and looks forward to handing over to the other Co-chair of WG-AAM after a year. ❖ Surya mentioned about the regular absence of some of the members in the meetings due to other busy engagements and suggested to politely check if they would like to step down. ❖ Rupakumar clarified that the members cannot be removed by MP, but members can opt to resign on their own. He opined that IMPO can sent out a mail to all members to indicate if they would like to withdraw their membership due to their buy schedules. If anyone comes back withdrawing his membership, the vacancy thus created can also considered as vacant positions for this time. ❖ Surya intervened to suggest that WGs can also suggest their nominations for MP. This will ensure continuation and better synergy between WGs and MP

5	<p>Discussions on Monsoons Session at OSC-2023 (Lead: Surya)</p> <ul style="list-style-type: none"> Surya sought support from all members to make the session successful. He along with other convenors (Andrew Turner and Moetasim Ashfaq) approaching members of MP and WGs for their active help & support in organising the session. Reacting to Gill Martin on whether the session will be hybrid, Rajagopal informed that WCRP mentioned in the last IPOs & WCRP Sect. Group meeting that the internet charges are quite exorbitant in Kigali and they are looking for ways to overcome this issue (may be through IT company sponsorships). More clarity on this will be available in the group's next meeting scheduled on 17th January 2023.
6	<p>Special Issue on Global Monsoons in Meteorological Applications (Lead: Leila)</p> <ul style="list-style-type: none"> The editor-in-chief approached Leila indicating that the journal is interested in organizing a special issue on Global Monsoons and wanted her to be the Lead Guest Editor. Surya has agreed to be a Guest Editor representing Asian Australian Monsoons A Guest Editor with interest in African Monsoons is needed. This issue welcomes papers on all application of meteorology, hydrometeorology, and climatology, including topics of observation, prediction, data assimilation and verification. Meteorological Applications is an Open Access journal and publishes both research and review articles using a double-blind review process. The deadlines for submission of the articles will be mentioned in the draft proposal to be submitted. It will be after OSC-2023 as scientists presenting papers in the conference may be interested in publishing their work. The details of the special issue will be available on the journal's webpage/circulated after the proposal is accepted. Surya intervened mentioning that the information on the special issue can be circulated to all WGs for wider circulation and suggested that the sub-groups within the WGs can target to submit at least one article each covering their area of work. He requested Co-chairs of WGs to take this forward and encourage their sub-groups to submit papers for enriching the contents of the special issue.
7	<p>Discussions on the In-person MP meeting at OSC-2023 (Lead: Surya)</p> <ul style="list-style-type: none"> As it was already discussed (mentioned at Sl. Nos. 1 and 3 above), further comments were sought from members. Surya mentioned if more members are interested, they can contact IMPO and based on the funding support from WCRP, the meeting can be planned at OSC-2023
8	<p>Date/ time of next meeting (Lead: Surya)</p> <ul style="list-style-type: none"> Surya mentioned that MP meetings as discussed in the last meeting should be on a bimonthly basis as far as possible. The next meeting can be in the last week of January 2023, if everyone agrees. This would also give sufficient time for the WGs to organise their meetings. MP will coordinate with IMPO for finalizing the date through doodle poll.
9	<p>Any other business</p> <ul style="list-style-type: none"> Leila and Surya thanked all for their presence in this meeting.

NEXT MEETING

Meeting Number	2023-1	Meeting Time & Date	4 th week of January 2023. IMPO to send out doodle poll
Location	Video conference, details of meeting to be sent out		