

WGNR Rio Meeting Minutes and Decisions-Actions

World Meteorological Organization Working Group on Nowcasting Research

Rio de Janeiro, Aug 13-15, 2012
Windsor Guanabara Hotel
Avenue President Vargas, 392 – Centro

FINAL 20121210

Revision History

Version	Date	Author	Comment
1	20120815	PJ	First Draft
2	20120817	SN	Minor changes
3	20121210	PJ	BG and SG approved their action items.

Attendees

Paul Joe Slobodan Nickovic Augusto Pereira Peter Li Jian Jie Wang Yong Wang Jeannette Onvlee (MWFR) George Isaac (SNOW-V10, FROST14, EC)	Jenny Sun Marianne Koenig Alan Seed Jim Wilson Tom Keenan Steve Goodman (WEBEX, Lake Vic) Kazuo Saito (MWFR) Volker Wulfmeyer (MWFR, Saturday)	Brian Golding (JSC, UKMO) Estelle de Coning (SA SWFDP, SAWS) Rita Roberts (NCAR) Matthias Steiner (NCAR) Alice Soares (WEBEX, Lake Vic)
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Missing are Steve Goodman and Tom Keenan

Number	Source	Decision/Action Items	Notes	Status
Lake Vic Project				
	WGNR Rio	<p>PJ reported on a DRAFT Project Concept document. Substantial discussion took place, with several participants on WEBEX. The focus was on two projects: (i) a project to understand the lake dynamics and (ii) a project to demonstrate a non-radar nowcasting system. Key players will be SAWS, Eumetsat, UKMO for later project. There is considerable enthusiasm for such a project.</p> <p>MK presented some new cases and offered to do more. AS indicated that March 12 2012 was a significant case.</p> <p>SWFDP asked for support for more case studies</p> <p>SWFDP invites WGNR to participate in the Antibbe, Uganda SWFDP training in November 2012</p> <p>Project Concept document discussed and generally accepted. Two major sub-components. Governance needs to be highlighted. Sustainability to be highlight</p> <p>Sub-component 1: A Satellite, Lightning, NWP nowcasting sub-project will piggyback on SWFDP.</p> <p>Telecon to follow up on sub-component 1.</p> <p>Sub-component 2: A field project (minimum, optimum) component.</p> <p>Telecon to follow up on sub-component 2.</p> <p>Climatology Studies</p> <p>Draft Project Plan with ROM costing by beginning of October for Alic to explore Norwegian funding</p> <p>SWFDP invites WGNR to RMC Jan-Mar 2013</p> <p>Estimate of costs to be sent to PJ</p>	<p>MK</p> <p>SG , MK and EdC MK and EdC</p> <p>PJ to revise based on discusson</p> <p>SG, BG, JO, MK and EdC will draft a project concept.</p> <p>PJ to organize in early Sept. JW, RR, SG</p> <p>PJ to organize in early Sept. TBD</p> <p>PJ</p> <p>PJ, MK, EC, JW, SG</p>	
Data for Nowcasting				
		<p>BG and JO provided additional guidance on this item. Experiences, gaps and recommendations from S2K, B08, SNOW-V10, VW ppts,</p>	<p>PJ to lead and will contact Peter May, WANG Yubin,</p>	

Aviation, etc is a sufficient start. Add lightning information – SG.

Arkadi Koldaev, JO, Volker,
Jim, Steve, etc

VW reported on a comprehensive EU project on this topic that could be referenced or building block of the report.

Thorpex DAOS (??) - to bring back the issue to JSC

SNOW-V10/FROST14/London 2012

Projects presented during WSN12 and opportunity provided for discussion.

GI to DK

Implementation Schedule including timelines for FROST 14 and project reports would be appreciated.

Training – Argentina/RTC-CMA- Beijing

WG NR supports the proposal for training by Argentina. Some discussion whether it should be freely provided considering the millions for radar development.

RR accepts the action item to coordinate training.

Need to reply to PR of Argentina and to Celeste and contact Jeff Wilson regarding next steps

PJ and SN

CMA/Beijing conducts annual international training sessions and would appreciate contribution by WWRP experts (. Need to coordinate with various working groups. Need to consider capacity of WG and so need coordination and planning will all WG's. Perhaps consider virtual contribution. Fan Hong is the CMA contact.

JJW accepts to be WG NR/WWRP contact

TOMACS

Project in development phase as RDP. Discussion on whether the SERA component should be highlighted and enhanced. Project is open for WWRP working groups participation.

KS to send invitation to WWRP/WG's for participation.

INCA-CE

Mature project with significant societal impacts. SERA group should

YW

be contacted and progress reports are eagerly anticipated.

NWP for Nowcasting

Jenny and Dale to be congratulated for hosting a successful meeting. JS
JS is preparing a BAMS article due by end of year.

Brazil – Meeting Report

Augusto to be congratulated for successful meeting in spite of hardships. Goal of introducing nowcasting systems to Brazilian forecasters, researchers and students accomplished by twice daily training sessions. INMET forecasters, other research groups attended and the WWRP is willing to entertain a RDP or FDP for Rio Olympic Games in 2016. Rio16 team / Brazilian Researchers

Brazil RTC-Nowcasting

AP presented a discussion on the vision of a regional centre for nowcasting. This could be initiated as a series of bi-lateral projects in a step wise fashion outside of the WMO purview for now. Need to have an articulated and written plan for discussion. Capacity and sustainability need to be discussed. AP to follow up

Aviation Initiative

PL presented a briefing on the impressive and extensive upgrades to the Aviation nowcasting system at HKO. NEXGEN and SESAR deal with US and Europe. An initiative to identify gaps, capacity to meet the CAEM vision needs to be done outside of NEXGEN and SESAR – ie. Rest of the world. A distributed project with similar equipment needs to be established at several sites around the world. A sub-group will be formed to pursue this. PL, GI, MS

Heuristics for Nowcasting

Seed and Zawadzki conducted a workshop several years ago. This project is needed but not clear when. It is considered dormant for now but still on AS's plate. AS

Environment Sciences/GAW

SN discussed the new direction within WWRP and GAW
PJ reported the Pan Am 2015 draft plan and that includes a Air Quality model at 2.5 km resolution and a Health Index using globe temperatures.

La Plata Basin

PJ reported on the draft RDP or RDP project of Celeste Saulo on the La Plata basin. The project plan is in formulation and personal communication with CS indicated that nowcasting will be an important component of the project but it is immature at the moment. The LPB is the second largest basin in South America and there are both large MCS and convective thunderstorms to consider. Models to downscale to 2.5 km. Buenos Ares is the major populated centre and the Nowcasting project would likely centre on that. Establish collaboration between Argentina and Brazil.

Guide to Nowcasting

PJ/PL briefly discussed the need for this guide. There are confusing definitions and rationales that would benefit from a discussion that such a guide would present. PL put up a straw outline. PJ will initiate a email discussion on this. PJ

Next WGNR Meeting

There will be a WWRP Open Science Forum in 2014? It is not clear what the potential for mass meeting of WG's. The meeting should be used to address goals and gaps of WG's/Nowcasting in general. If PJ/SN

progress is made in LVP then LV is a possibility. Same for Aviation or other initiatives. WGNR meeting should be in early 2014. (Russia, Austria, LV region?)

Next WSN

WWRP OSF 2014 confuses things but there are several interested groups – RSA (Capetown), HKO (Hong Kong), SMS (Shanghai), Sydney?. Need to create a process to decide on best strategy.

PJ/SN

