

Météo-France activities relevant for CAS MG (short overview)

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Upgrade of the operational NWP suite

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- The AROME regional system resolution changes from 2.5km to 1.3km, and from 60 to 90 levels
- The ARPEGE global system resolution changes from 10km to 7.5km over Europe, from 60km to 36km over Pacific Ocean, and from 70 to 105 levels
- Large increase of the number of observations presented to data assimilation systems
- Assimilation cycle of 1h for AROME (3 times more conventional and radar observations are used)
- Ensemble assimilation method for ARPEGE with 25 members instead of 6 members
- Improvements to the physics
- Positive impacts of the changes, especially for low cloud prediction, intense rainfall events, and orographic winds

Next expected upgrades

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- End 2015: AROME systems at 2.5km resolution for all french oversea territories
- End 2015: AROME nowcasting version (6h forecast every hour)
- Mid 2016: AROME ensemble system (starting with 12 members twice per day)
- Mid 2016: change in computer (x3) (after x12 end of 2013)
- 2018: next system resolution increase (still under discussion)

- Météo-France is undergoing budget and staff reduction (-2.5% per year)
- Research will now be impacted as other directorates
 - Hydraulic channel has been closed end 2014
 - Ongoing discussions on research aircraft, likely reduced to one airplane only, and european integration under EUFAR well on track
- At this stage, NWP and Climate research are still protected
- Recently proposals have been sent to funding agencies for contributions to T-NAWDEX (part of HIWeather). (Observations by aircraft and balloons)

- AMMA:
 - First Phase with large international field campaign in 2006, several large conferences and special issues in scientific journals, now concluded
 - Second Phase on-going (2010-2020), focus on interaction between weather, climate and society, and capacity building, supported by Météo-France, CNRS and IRD
- MISVA: Real-time Monitoring and forecast of IntraSeasonal Variability over Africa
 - Internet site at <http://isv.sedoo.fr>, developed by Météo-France and partners
 - Used by french and african forecasters during the monsoon season
 - Comparison of methods and diagnostics

- Visit of Aïda Diongue, discussions with ANACIM about a possible SWFDP project over West-Africa, based in Dakar

- African Forecaster handbook
 - Project goes back to 2009, has been recently reinvigorated
 - Support of WMO has been requested concerning
 1. Translation into French, and French publication
 2. Purchase and supply of some copies of the book to the African agencies
 3. Events and workshops to exploit the book

List of chapters

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Editors: Douglas Parker and Mariane Diop

Words

Reviewers

		Words	Reviewers
1. Mean climate and annual cycle*	Andreas Fink	11,740	Serge Janicot
2. Synoptic*	Rosalind Cornforth and Zilore Mumba	20,300	Chris Thorncroft
3. Convective storms*	Jean-Philippe Lafore	11,300	Mitch Moncrieff
4. Local weather*	Douglas Parker	25,125	Chris Tubbs Paul Hutcheon
5. Dust	Peter Knippertz	15,261	Andreas Fink
6. Nowcasting	Rita Roberts and Jim Wilson	15,611	Charles Yorke Jim Galvin CNRM
7. Subseasonal forecasting	Wassila Thiaw	9,500	George Kiladis
8. Seasonal forecasting	Andrew Colman	15,305	Doug Parker Mariane Diop
9. Remote sensing	Arlene Laing	16,567	Mariane Diop Tony Wardle
10. NWP	Sean Milton	12,207	Fred Semazzi Philippe Bougeault
12. West African Synthetic Analysis and Forecast: WASA-F	Jean-Philippe Lafore	7,160	ACMAD / Abdou Kassimou

Chapter review workshop, Dakar, March 2013

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ATELIER INTERNATIONAL D'ECHANGES ENTRE CHERCHEURS ET PREVISIONNISTES Pour la revue du guide du previsionniste en Afrique de L'Ouest 18 - 21 mars 2013, Hôtel Ngor Diarama , Dakar, Sénégal



Thank you!