

# Publications

This is a list of articles published in peer-reviewed scientific journals related to seasonal forecasting with permanent Météo-France researchers (in bold fonts) as lead author or co-author.

**Déqué, M.**, 1988: The probabilistic formulation: a way to deal with ensemble forecasts. *Annales Geophysicae*, 6, 217-224.

**Déqué, M.**, 1990: Impact of prescribed sea surface temperatures on extended range forecasting. *J. Marine Systems*, 1, 61-70.

**Déqué, M.**, 1991: Removing the model systematic error in extended range forecasting. *Annales Geophysicae*, 9, 242-251.

**Déqué, M.** and **Royer, J.F.**, 1992: The skill of extended-range extratropical winter dynamical forecasts. *J. Climate*, 5, 1346-1356.

**Déqué, M.**, **Royer, J.F.** and Stroe, R., 1994: Formulation of gaussian probability forecasts based on model extended-range integrations. *Tellus*, 46A, 52-65.

**Déqué, M.**, 1997: Ensemble size for numerical seasonal forecasts. *Tellus*, 49A, 74-86.

Doblas-Reyes, F.J., **Déqué, M.** and **Piedelievre, J.P.**, 2000: Model and multimodel spread in the PROVOST seasonal forecasts : application to probabilistic forecasts. *Quart. J. Roy. Meteor. Soc.*, 126, 2069-2088.

**Douville, H.** and **Chauvin, F.**, 2000: Relevance of soil moisture for seasonal climate predictions: a preliminary study. *Climate Dynamics*, 16, 719-736

**Déqué, M.**, 2001: Seasonal predictability of tropical rainfall : probabilistic formulation and validation. *Tellus*, 53A, 500-512.

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**Douville, H.** 2004: Relevance of soil moisture for seasonal climate predictions: is it an initial value problem ? *Climate Dynamics*, 22, 429-446

- Guérémy, J.F., Déqué, M., Braun, A. and Pielieuvre, J.P.**, 2005: Actual and potential skill of seasonal predictions using the CNRM contribution to DEMETER: coupled versus uncoupled model. *Tellus*, 57A, 308-319.
- Guldberg, A., Kaas, E., **Déqué, M.**, Yang, S. and Vester Thorsen, S., 2005: Reduction of systematic errors by empirical model correction: impact on seasonal prediction skill. *Tellus*, 57A, 575-588.
- Vitart, F., Huddleston, M.R., **Déqué, M.**, Peake, D., Palmer, T.N., Stockdale, T.N., Davey, M.K., Ineson, S. and Weisheimer, A., 2007: Dynamically-based seasonal forecasts of Atlantic tropical storm activity issued in June by EUROSIP. *Geophys. Res. Lett.*, 34, L16815, doi:10.1029/2007GL030740
- Douville, H.**, 2007, Soil moisture memory and West African monsoon predictability: artefact or reality ? *Climate Dynamics*, 28, 723-742
- Weisheimer, A., Doblas-Reyes, F.J. Palmer, T.N. Alessandri, A. Arribas, A. **Déqué, M.**, Keenlyside, N. MacVean, M. Navarra, A. and Rogel, P., 2009 : ENSEMBLES: A new multi-model ensemble for seasonal-to-annual predictions--Skill and progress beyond DEMETER in forecasting tropical Pacific SSTs. *Geophysical Research Letters*, 36, doi : 10.1029/2009GL040896
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- Alessandri, A., Borelli, A., Navarra, A., Arribas, A., **Déqué, M.**, Rogel, P. and Weisheimer, A, 2011: Evaluation of Probabilistic Quality and Value of the ENSEMBLES Multimodel Seasonal Forecasts: Comparison with DEMETER. *Monthly Weather Review*, 139, 581-607, doi : 10.1175/2010MWR3417.1
- Batté, L.**, and **Déqué, M.**, 2011: Seasonal predictions of precipitation over Africa using coupled ocean-atmosphere general circulation models : skill of the ENSEMBLES project multimodel ensemble forecasts. *Tellus SERIES A-Dynamic Meteorology and Oceanography*, Volume : 63, Issue : 2, Pages : 283-299, Published : MAR 2011. Doi : 10.1111/j.1600-0870.2010.00493.x.
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- Chevallier, M.** and **Salas Y Méliá, D.**, 2012. The role of sea ice thickness distribution in the Arctic sea ice potential predictability: a diagnostic approach with a coupled GCM. *Journal of Climate*, 25, 3025-3038, doi:10.1175/JCLI-D-11-00209.1
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- Chevallier, M.**, **Salas y Méliá, D.**, **Voltaire, A.**, **Déqué, M.** and Garric, G., 2013: Seasonal Forecasts of the Pan-Arctic Sea Ice Extent Using a GCM-Based Seasonal Prediction System. *J. Climate*, 26, 6092–6104.
- Guemas V., Blanchard-Wrigglesworth, E., **Chevallier, M.**, Day, J.J, **Déqué, M.**, Doblas-Reyes, F.J., Germe, A., Hawkins, E., Keeley, S., Koenigk, T., **Salas y Méliá, D.**, and Tietsche, S. 2014 : A

review on Arctic sea ice predictability and prediction on seasonal-to-decadal timescales, QJRMS, doi:10.1002/qj.2401

Singla, S., **Céron, J.P., Martin, E., Regimbeau, F., Déqué, M.**, Habets, F. and Vidal, J.P., 2012 : Predictability of Soil Moisture and River Flows over France for the Spring Season Hydrol. Earth Syst. Sci., 16, 201-216, doi:10.5194/hess-16-201-2012

**Batté, L.** and Doblas-Reyes, F.J., 2015 : Stochastic atmospheric perturbations in the EC-Earth3 global coupled model: impact of SPPT on seasonal forecast quality. Climate Dynamics, doi 10.1007/s00382-015-2548-7

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