



EUCLIPSE

EU Cloud Intercomparison, Process Study & Evaluation Project

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Deliverable D0.12 Final plan for the use and dissemination of foreground.

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Responsible Partner: KNMI

Delivery date: 52 months



Publications 2014

Bellenger, H., E. Guilyardi, J. Leloup, M. Lengaigne, and J. Vialard 2014:

ENSO representation in climate models: from CMIP3 to CMIP5.

Published in *Clim. Dyn.*, vol. 42, Issue 7-8, 1999-2018, doi: 10.1007/s00382-013-1783-z

Bodas-Salcedo, A., et al., 2014:

Origins of the solar radiation biases over the Southern Ocean in CFMIP2 models.

Published in *J. Climate*, vol. 27, 41-56, doi: 10.1175/JCLI-D-13-00169.1

Dal Gesso, S., A. P. Siebesma, S. R. de Roode, and J. M. van Wessem, 2014:

A mixed-layer model perspective on stratocumulus steady-states in a perturbed climate.

Published in *Q. J. R. Meteorol. Soc.*, doi: 10.1002/qj.2282

Dal Gesso, S., A. P. Siebesma and S. R. de Roode, 2014:

Evaluation of low-cloud climate feedback through single-column model equilibrium states.

Published in *Q. J. R. Meteorol. Soc.*, doi: 10.1002/qj.2398

Dussen, J. J. van der , S. R. de Roode, and A. P. Siebesma, 2014:

Factors controlling rapid stratocumulus cloud thinning.

Published in *J. Atmos. Sci.*, vol. 71, issue 2, 655-664, doi: 10.1175/JAS-D-13-0114.1

Engström A., J. Karlsson and G. Svensson,

The importance of representing mixed-phase clouds for simulating distinctive atmospheric states in the Arctic.

Published in *J. Climate*, vol. 27, issue 1, 265-272, doi: 10.1175/JCLI-D-13-00271.1

Fermepin, S. and S. Bony, 2014:

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Published in the *J. Adv. Model. Earth Syst.*, doi: 10.1002/2013MS000288

Klocke, D. and M. J. Rodwell, 2014:

A comparison of two numerical weather prediction methods for diagnosing fast-physics errors in climate models.

Published in *Q. J. R. Meteorol. Soc.*, vol. 140, issue 679, 517-524, doi: 10.1002/qj.2172

Lacagnina, C., F. Selten, 2014:

Evaluation of clouds and radiative fluxes in the EC-Earth general circulation model.

Published in *Clim. Dyn.*, doi: 10.1007/s00382-014-2093-9

Lambert, F.H., M.J. Webb, M. Yoshimori and T. Yokohata, 2014:

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Ma, H.-Y., S. Xie, S.A. Klein, K.D. Williams, J.S. Boyle, S. Bony, H. Douville, S. Fermepin, B. Medeiros, S. Tyteca, M. Watanabe and D. Williamson, 2014:

On the correspondence between mean forecast errors and climate errors in CMIP5 models.

Published in *J. Climate*, vol. 27, issue 4, 1781-1798, doi: 10.1175/JCLI-D-013-00474.1

Medeiros, B, B. Stevens and S. Bony, 2014:

Using aquaplanets to understand the robust responses of comprehensive climate models to forcing.

Published in *Clim. Dyn.*, doi: 10.1007/s00382-014-2138-0

Neubauer, D., U. Lohmann, C. Hoose and M.G. Frontoso, 2014
Impact of the representation of marine stratocumulus clouds on the anthropogenic aerosol effect.
Submitted for publication in ACPD.

Roode, S. R. de, A. P. Siebesma, S. Dal Gesso, H. J. J. Jonker, J. Schalkwijk, and J. Sival, 2014:
A mixed-layer study of the stratocumulus response to changes in large-scale conditions.
Submitted to J. Adv. Model. Earth Syst.

Sherwood, S.C., S. Bony and J.-L. Dufresne, 2014:
Spread in model estimates of climate sensitivity traced to atmospheric convective mixing.
Published in *Nature*, vol. 505, issue 7481, 37-42, doi: 10.1038/nature12829

Voigt, A., S. Bony, J.-L. Dufresne, and B. Stevens, 2014 :
The radiative impact of clouds on the shift of the inter-tropical convergence zone.
Published in *Geophys. Res. Lett.*, doi: 10.1002/2014GL060354

Webb, Mark J., Adrian P. Lock, Alejandro Bodas-Salcedo, Sandrine Bony, Jason N. S. Cole, Tsuyoshi Koshiro, Hideaki Kawai, Carlo Lacagnina, Frank M. Selten, Romain Roehrig, Bjorn Stevens, 2014:
The diurnal cycle of marine cloud feedback in climate models.
In press *Clim. Dyn.*

Publications 2013

Brient, F. and S. Bony, 2013:
Interpretation of the positive low-cloud feedback predicted by a climate model under global warming.
Published in *Clim. Dyn.*, vol. 40, 2415-2431, doi: 10.1007/s00382-011-1279-7

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Robust direct effect of carbon dioxide on tropical circulation and regional precipitation.
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European temperatures in CMIP5: origins of present-day biases and future uncertainties.
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Opposite CMIP3/CMIP5 trends in the wintertime Northern Annular Mode explained by combined local sea ice and remote tropical influences.
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Combined influence of atmospheric physics and soil hydrology on the simulated meteorology at the SIRTA atmospheric observatory.

Published in *Clim. Dyn.*, vol. 40, 2251–2269, doi: 10.1007/s00382-012-1469-y

Crueger, T., C. Hohenegger, W. May, 2013:

Tropical precipitation and convection changes in the MPI-ESM in response to CO₂ forcing.

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Dussen, J.J. van der, S.R. de Roode, A.S. Ackerman, P.N. Blossey, C.S. Bretherton, M.J. Kurowski, A.P. Lock, R.A.J. Neggers, I. Sandu, and A.P. Siebema, 2012:

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Published in *J. Adv. Model. Earth Syst.*, vol. 5, issue 3, 483-499, doi: 10.1002/jame.20033

Karlsson, J. and G. Svensson, 2013:

Consequences of poor representation of Arctic sea-ice albedo.pdf Consequences of poor representation of Arctic sea-ice albedo and cloud-radiation interactions in the CMIP5 model ensemble.

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Lacagnina, C., F. Selten, 2013:

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Meraner, K., T. Mauritsen and A. Voigt, 2013:

Robust increase in equilibrium climate sensitivity under global warming.

Published in *Geophys. Res. Lett.*, vol. 40, issue 22, 5944–5948, doi: 10.1002/2013GL058118

Oueslati, B. and G. Bellon, 2013:

Convective entrainment and large-scale organization of tropical precipitation: sensitivity of the CNRM-CM5 hierarchy of models.

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Oueslati, B. and G. Bellon, 2013:

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Importance of instantaneous radiative forcing for rapid tropospheric adjustment.

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Evaluation and response of winter cold spells over Western Europe in CMIP5 models.

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Roehrig, R., D. Bouniol, F. Guichard, F. Hourdin and J.-L. Redelsperger, 2013:

The present and future of the West African monsoon: a process-oriented assessment of CMIP5 simulations along the AMMA transect.

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Schalkwijk, J., H.J.J. Jonker and A.P. Siebesma, 2013:

Simple Solutions to Steady-state Cumulus Regimes in the Convective Boundary Layer.

Published in *J. Atmos. Sci.*, vol. 70, issue 11, 3656–3672, doi: 10.1175/JAS-D-12-0312.1

Schirber, S., D. Klocke, R. Pincus, J. Quaas and J.L. Anderson, 2013:

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Schubert, J.J., B. Stevens, T. Crueger, 2013:

The Madden-Julian Oscillation as Simulated by the MPI Earth System Model: Over the Last and Into the Next Millennium.

Published in *J. Adv. Model. Earth Syst.*, vol. 5, issue 1, 71-84, doi: 10.1029/2012MS000180

Stevens, B. and S. Bony, 2013:

What are climate models missing?

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Stevens, B., et al., 2013:

The Atmospheric Component of the MPI-ESM: ECHAM6

Published in the *J. Adv. Model. Earth Syst.*, vol 5, issue 2, 146-172, doi: 10.1002/jame.20015

Tselioudis, G., W. Rossow, Y.-C. Zhang and D. Konsta, 2013:

Global weather states and their properties from passive and active satellite cloud retrievals

Published in *J. Climate*, vol. 26, issue 198, 7734-7746, doi: 10.1175/JCLI-D-13-00024.1

Tsushima, Y., M.A. Ringer, M.J. Webb and K.D. Williams, 2013:

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Published in *Clim. Dyn.*, doi: 10.1007/s00382-012-1609-4

Vanni re, B., E. Guilyardi, G. Madec, F. J. Doblas-Reyes, S. Woolnough, 2013:

Using seasonal hindcasts to understand the origin of the equatorial cold tongue bias in CGCMs and its impact on ENSO.

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On the interpretation of inter-model spread in CMIP5 climate sensitivity estimates.

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Webb, M.J. and A.P. Lock, 2013: Coupling between subtropical cloud feedback and the local hydrological cycle in a climate model. Published in *Clim. Dyn.*, vol. 41, doi: 10.1007/s00382-012-1608-5

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Zelinka, M.D., S.A. Klein, K.E. Taylor, T. Andrews, M.J. Webb, J.M. Gregory, and P.M. Forster, 2013: Contributions of Different Cloud Types to Feedbacks and Rapid Adjustments in CMIP5. Published in *J. Climate*, vol. 26, issue 14, 5007–5027, doi: 10.1175/JCLI-D-12-00555.1

Zhang, M., C.S. Bretherton, P.N. Blossey, P.A. Austin, J.T. Bacmeister, S. Bony, F. Brient, A. Cheng, S.R. De Roode, S. Endo, A.D. Del Genio, C.N. Franklin, J.-C. Golaz, C. Hannay, T. Heus, F.A. Isotta, J.-L. Dufresne, I.-S. Kang, H. Kawai, M. Koehler, S. Kumar, V.E. Larson, Y. Liu, A.P. Lock, U. Lohman, M.F. Khairoutdinov, A.M. Molod, R.A.J. Neggers, P. Rasch, I. Sandu, R. Senkbeil, A.P. Siebesma, C. Siegenthaler-Le Drian, B. Stevens, M.J. Suarez, K.-M. Xu, K. von Salzen, M.J. Webb, A. Wolf, M. Zhao, 2013: CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models . Published in *J. Adv. Model. Earth Syst.*, vol. 5, issue4, 826–842, doi: 10.1002/2013MS000246

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Blossey, P. N., C. S. Bretherton, M. Zhang, A. Cheng, S. Endo, T. Heus, Y. Liu, A. Lock, S. R. de Roode and K.-M. Xu, 2012: Marine low cloud sensitivity to an idealized climate change: The CGILS LES Intercomparison. Published in *J. Adv. Model. Earth Syst*, vol. 5, issue 2, 234–258, doi: 10.1002/jame.20025

Brient, F. and S. Bony, 2012: How may low-cloud radiative properties simulated in the current climate influence low-cloud feedbacks under global warming. Published in *Geophys. Res. Lett.*, vol. 39, issue 20, doi: 10.1029/2012GL053265

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Combined influence of atmospheric physics and soil hydrology on the simulated meteorology at the SIRTa atmospheric observatory.

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Crueger, T., B. Stevens and B. Brokopf, 2012:

The Madden-Julian Oscillation in ECHAM6 and the Introduction of an Objective MJO Metric.

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Konsta, D., H. Chepfer and J.-L. Dufresne, 2012

A process oriented characterization of tropical oceanic clouds for climate model evaluation, based on a statistical analysis of daytime A-train observations.

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Lloyd, J., E. Guilyardi and H. Weller, 2012:

The role of atmosphere feedbacks during ENSO in the CMIP3 models. Part III: the shortwave flux feedback.pdf The role of atmosphere feedbacks during ENSO in the CMIP3 models. Part III: the shortwave flux feedback

Published in *J. Climate*, vol. 25, issue 12, 4275-4293, doi: 10.1175/JCLI-D-11-00178.1

Mauritsen, T., et al., 2012:

Tuning the Climate of a global model.

Published in *J. Adv. Model. Earth Syst*, vol. 4, issue 3, doi: 10.1029/2012MS000154

Moebis, B. and B. Stevens, 2012:

Factors controlling the position of the Intertropical Convergence Zone on an aquaplanet.

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Nam, C. , Bony, S. , Dufresne, J.-L. , and Chepfer, H., 2012:

The 'too few, too bright'; tropical low-cloud problem in CMIP5 models.

Published in *Geoph. Res. Lett.*, vol. 39 , issue 21, 2012. doi: 10.1029/2012GL053421

Neggers, R.A.J. and A.P. Siebesma, 2012:

Constraining a system of interacting parameterizations through multiple-parameter evaluation:

Tracing a compensating error between cloud vertical structure and cloud overlap.

Published in *J. Climate*, vol. 26, issue 17, 6698–6715, doi: 10.1175/JCLI-D-12-00779.1

Neggers, R.A.J., A.P. Siebesma and T. Heus, 2012:

Continuous single-column model evaluation at a permanent meteorological supersite.

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Zhang, M., C. S. Bretherton, P. N. Blossey, S. Bony, F. Brient and J.-C. Golaz, 2012:

The CGILS experimental design to investigate low cloud feedbacks in general circulation models by using single-column and large-eddy simulation models.

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Bodas-Salcedo, A., M. J. Webb, S. Bony, H. Chepfer, J.-L. Dufresne, S. A. Klein, Y. Zhang, R. Marchand, J. M. Haynes, R. Pincus, and V. O. John, 2011:
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Published in *Bull. Amer. Meteor. Soc.*, vol. 92, issue 8, 1023-1043, doi: 10.1175/2011BAMS2856.1

Lloyd, J., E. Guilyardi and H. Weller, 2011:
The role of atmosphere feedbacks during ENSO in the CMIP3 models. Part II: using AMIP runs to understand the heat flux feedback mechanisms.
Published in *Clim. Dyn.*, vol. 37, issue 2, 1271–1292, doi: 10.1007/s00382-010-0895-y

Below you can find a list of the activities which have been undertaken in the context of “Awareness and Wider Societal Implications” .
A more comprehensive list will be given in the Final Report.

Presentations at Conferences, Symposia and Workshops

2014

EUCLIPSE General Assembly jointly with CFMIP, 8-11 July 2014 in Egmond aan Zee, the Netherlands.
Johan J. van der Dussen: “The influence of Inversion Stability on Stratocumulus Cloud Thinning” 21st Symposium on Boundary Layers and Turbulence, June 09 - 13, 2014, Leeds, United Kingdom.

Stephan R. de Roode: “A mixed-layer model study of the stratocumulus response to changes in large-scale conditions” 21st Symposium on Boundary Layers and Turbulence, June 09 - 13, 2014, Leeds, United Kingdom.

A. Pier Siebesma : “Understanding Low Cloud Feedbacks” . 3rd General Assembly EMBRACE, 13th-15th, May 2014, KNMI, The Netherlands

A. Pier Siebesma: “Evaluation of Clouds in EUCLIPSE”. Future Perspectives for Scientific and Infrastructural Needs in Earth System Model Evaluation. May 12-13 2014, KNMI, The Netherlands.

2013

EUCLIPSE General Assembly jointly with CFMIP, 10-14 June 2013 in Hamburg, Germany.

A. Pier Siebesma: “Discussion Meeting” . ECOMS meeting for preparing input for the Horizon 2020 program, 4-5 February 2013, Met Office, Exeter.

2012

EUCLIPSE General Assembly jointly with CFMIP, 29 May-1 June 2012 in Paris, France

A. Pier Siebesma: “EUCLIPSE overview” . US/European Workshop on Climate Change Challenges and Observations. November 6-8 2012. Washington DC, USA.

A. Pier Siebesma: “EUCLIPSE overview” . Coordination Meeting Climate Modelling and Services. June 7-8, 2012, Brussels, Belgium.

A. Pier Siebesma: “Discussion Workshop” . Towards an integrated atmospheric observing system in Europe. December 3-4, 2012, Brussels, Belgium.

Dussen, J. van der, S.R. de Roode and A.P. Siebesma, 2012: LES sensitivity experiments of the EUCLIPSE stratocumulus to cumulus transition based on ASTEX. 20th Symposium on Boundary Layers and Turbulence, 9-13 July 2012, Boston, MA, USA.

Roode, S.R. de, I. Sandu, J. van der Dussen, A.S. Ackerman, P.N. Blossey, A. Lock, A.P. Siebesma and B. Stevens, 2012:

LES results of the EUCLIPSE Lagrangian stratocumulus to shallow cumulus transition cases. 20th Symposium on Boundary Layers and Turbulence, 9-13 July 2012, Boston, MA, USA.

Kurowski, M., D. Jarecka, H. Pawlowska, and W.W. Grabowski: Extended abstract presented at 16th International Conference on Clouds and Precipitation in Leipzig Germany, 29 July - 3 August 2012: Large-Eddy Simulations of Stratocumulus to Cumulus transitions.

2011

Pier Siebesma: "Attacking the Cloud Feedback Problem" 6th EU-Japan Workshop on Climate Change Research October 10-11 2011, Brussels, Belgium.

EUCLIPSE General Assembly jointly with CFMIP, 6-10 June 2011 in Exeter, UK.

2010

EUCLIPSE General Assembly jointly with CFMIP, 27-30 September 2010 in Utrecht, the Netherlands.

A. Pier Siebesma: "Evaluation of cloud related processes in climate models with observations from advanced profiling stations: A EUCLIPSE perspective". COST Action ES0702. Cologne 16-18 November 2010.

Roode, S.R. de, and J. van der Dussen 2010:

Large-Eddy Simulation of a stratocumulus top cumulus cloud transition as observed during ASTEX 19th Symposium on Boundary Layers and Turbulence, 1-6 August 2010, Keystone, CO., USA.

Summerschool

2013

EUCLIPSE Summerschool, 24 June-5 July 2013 in Les Houches, France (deliverable D0.9).

Website

<http://www.euclipse.eu>

Databases

Earth System Model Output : euclipse1.dkrz.de

European Ground Observations : climserv.ipsl.polytechnique.fr/cfmip-obs

Diagnostics Code Repository: cfmip.metoffice.com/CFMIP_diag.html#list_repository

CALIPSO/PARASOL obs analysis products: <http://climserv.ipsl.polytechnique.fr/cfmip-obs.html>

MODIS simulator:

http://wiki.esipfed.org/index.php/Indirect_forcing#.E2.80.9CSatellite_simulator.E2.80.9D

Brochures

See deliverable D0.1.: http://www.euclipse.eu/downloads/EUCLIPSE_flyer_finalversion.pdf

Media

Interview with A. Pier Siebesma: “Wolkenbaan” in “de Volkskrant” on the profession of cloud researcher and the relevance of clouds for weather and climate. May 24th 2014.

“Cloudbusters” A Euronews Futuris Television Programme on the Euronews Channel :
<https://www.youtube.com/watch?v=5UCb38WzkII>

“Watching the Skies” Interview with A. Pier Siebesma on the EUCLIPSE project in “International Innovation”, www.euclipse.eu/downloads/p13-15_EUCLIPSE.pdf, August 2011 .