Conferences

2021

Colloquium in Climatology, Climate Impact and Remote Sensing, virtual event, Bern, 24 March 2021

de Rosnay et al.: “Satellite data for land surface analysis in Numerical Weather Prediction (NWP) systems”

Workshop on the Optimal Use of Operational Satellite Microwave Products for High Latitudes & Polar Area Models, 23-24 February 2021


2020

WMO 7th Workshop on the Impact of Various Observing Systems on NWP, virtual event, 30 November-3 December 2020

Zuo, H., M. Alonso Balmaseda, B. Balan-Sarojini, C. Robert, M. Mayer, S. Tietsche, P. de Rosnay, "Impacts of ocean observations on ocean (re)analysis and coupled forecasts"

Microrad 2020, virtual event, 17-20 November 2020:


EO for water cycle science 2020, virtual event, 16-19 November 2020:


Fairbairn, D., P. de Rosnay, P. Browne, P. Weston, oral presentation: Exploring trends and bias correction methods for the H SAF ASCAT root-zone soil moisture data records


NASA/GSFC/GMAO Fall Seminar Series on Earth System Science, virtual event, 27 October 2020


ESA European Polar Science week, virtual event, 26-30 October 2020:


ECMWF-ESA workshop on Machine Learning for Earth System Observation and Prediction, virtual event, 5-8 October 2020:


42nd EWGLAM and 27th SRNWP Meeting, virtual event, 28Sept-2Oct 2020:


EGU Sharing Geoscience Online, 4-8 May 2020


Zuo H., E. de Boisséson, E. Zsoter, S. Harrigan, P. de Rosnay, F. Wetterhall, and C. Prudhomme, Benefits of dynamically modelled river discharge input for ocean and coupled system

EARSeL, Bern, 3-5 February 2020


AMS 100th Annual Meeting 12–16 January 2020 Boston
2019

Satellite inspired hydrology in an uncertain future: an H SAF and HEPEX workshop, ECMWF, UK, 25-28 November 2019

-Aires F., C. Prigent, N. Rodríguez-Fernandez, J. Kolassa, C. Jimenez, P. De Rosnay, C. Albergel, Y. Kerr: oral presentation, "NN retrieval of soil moisture"


-Fairbairn D., P. de Rosnay, C. Albergel, L. Isaksen, S. English: poster: "H SAF root zone soil wetness products based on scatterometer observations"


Joint EUMETSAT/AMS/NOAA Conference 2019, 30 Sept-4 Oct, Boston, USA:

Fairbairn D., P. de Rosnay, P. Browne, L. Isaken, C. Albergel, oral: H-SAF Root-zone Soil Wetness Products based on scatterometer assimilation

EWGLAM/SRNWP, Sofia, Bulgaria, 30 Sept-3 Oct

de Rosnay and Balsamo: oral, presented by M. Diamantakis: "ECMWF land surface status"

AOGS 16th Annual Meeting, Singapore, 28 July- 02 August 2019


GCW Snow Watch meeting, Montreal, 17-19 July 2019

de Rosnay P., K. Luojus and the Snow Watch Team, oral presentation: Snow Watch co-chair report


3rd International Surface Working Group (ISWG) Workshop, Montreal, 15-17 July 2019


de Rosnay P. and S. Pullen, oral presentation: "snow real time snow reporting: BUFR Templates, registration as GCW stations, monitoring progress, and outreach"

de Rosnay P. and G. Balsamo, oral presentation" ECMWF land surface status"


Hirahara Y., P. de Rosnay and G. Arduini, oral presentation: “Evaluation of the land surface radiative transfer model CMEM for snowcovered regions”

Nadir Arslan A., Patricia de Rosnay, Charles Fierz et al.: oral presentation: "The European Efforts on a Better Harmonization of Snow Observations, Modelling and Data Assimilation: EU COST Action ES1404-HarmoSnow"


27th IUGG General Assembly, Montreal, 8-18 July 2019


Nadir Arslan A., Patricia de Rosnay, Charles Fierz et al.: oral presentation: "The European Efforts on a Better Harmonization of Snow Observations, Modelling and Data Assimilation: EU COST Action ES1404-HarmoSnow"
ESA living planet symposium, Milan, 13-17 May 2019
de Rosnay P., Agora Giardino talk, session 10 years of SMOS - an ESA Earth Explorer satellite: From technology demonstrator to operational applications, oral (invited) presentation Current and future SMOS based operational applications at ECMWF: soil moisture assimilation for NWP, fire risk and flood forecasting
de Rosnay P., Agora ESA panel, Space 19+ preparation

EGU 2019, Vienna, 8-12 April 2019
Albergel C., E. Dutra, B. Bonan, Y. Zheng, S. Munier, G. Balsamo, P. de Rosnay, J. Muñoz, and J.-C. Calvet, oral presentation”Monitoring and forecasting the impact of the 2018 summer heatwave on vegetation”
Dutra E., S. Boussetta, G. Arduini, G. Balsamo, and P. de Rosnay, oral presentation: "Data assimilation of in-situ snow depth and its impact on river discharge”
Fairbairn, D., P. de Rosnay, P. Browne, oral presentation:"The new stand-alone surface analysis at ECMWF”
Lawrence H., C. Baugh, T. Jurlina, C. Prudhomme, P. de Rosnay, and F. Di Guiseppe, poster: "SMOS Soil Moisture and its potential within the Copernicus Emergency Management Service for Flood Forecasting at ECMWF”

International Symposium on Data Assimilation (ISDA), Kobe, 21-24 January 2019

AMS 9th Annual meeting, Phoenix, Arizona, 6-10 January 2019
Browne, P and P. de Rosnay: "Coupled Ocean–Atmosphere ocean–Atmosphere Assimilation for NWP at ECMWF"

2018

AGU Fall meeting, Washington DC, 10-14 December 2018

EUMETSAT meteorological satellite conference, 17-21 September 2018, Tallinn, Estonia
Fairbairn D., P. de Rosnay, P. Browne and C. Albergel: “H-SAF root zone soil moisture products”

ECMWF Annual Seminar, Earth System Assimilation, Reading, UK, 10-13 September 2018
Schepers D., E. de Boisséson, R. Buizza, D. Dee, H. Hersbach, P. Laloyaux, P. de Rosnay: invited talk, "Coupled reanalysis at ECMWF"

IGARSS 2018, Valencia, 22-26 July 2018

de Rosnay P. et al, oral invited talk, ESA SMOS special event: "SMOS neural network data assimilation for NWP"
Rodríguez-Fernández, N. P. de Rosnay, C. Albergel, F. Aires, Y. Kerr, M. Drusch, poster "SMOS neural network soil moisture data assimilation"

EGU 2018, Vienna, 8-13 April 2018

de Rosnay P., J. Muñoz-Sabater, C. Albergel, Oral: "LDAS-Monde sequential assimilation of satellite-derived vegetation and soil moisture products forced by ERA5 ECMWF latest reanalysis applied over North America"

6th International Symposium on Data Assimilation (2018), Munich, 5-9 March 2018

Browne P., P. de Rosnay, H. Zuo; Keynote talk: "Coupled Earth System Assimilation in NWP at ECMWF"

2017

21st International TOVS Study Conference (ITSC-21), EUMETSAT, 29Nov-5Dec 2017


C3S conference on reanalysis, Rome, 13-17 November 2017

de Rosnay P., D. Schepers, P. Dahlgren: poster on "ECMWF land-atmosphere weakly coupled assimilation in CERA-SAT"


Schepers D., E. de Boisseson, R. Buizza, G. De Chiara, P. Dahlgren, D. Dee, R. Eresmaa, Y. Kosaka, P. Laloyaux, P. de Rosnay: CERA-SAT: talk on: "coupled reanalysis in the satellite era"

Zuo H., M. Balmaseda, K. Mogensen, S. Tietsche, P. de Rosnay: poster on: “The ECMWF ocean-sea ice reanalysis system ORASS and operational ocean analysis”


7th International WMO Symposium on Data Assimilation - Florianopolis, Brazil, 11-15 September 2017,
de Rosnay et al, poster on land data assimilation (presented by P Browne).

Browne, P., de Rosnay, P., Zuo, H and Schepers D. Toward coupled ocean-atmosphere data assimilation in the ECMWF HRES analysis

4th conference on modelling hydrology, climate and land surface processes, Lillehammer, 12-14 September 2017: de Rosnay et al., invited talk, Snow data assimilation

EGU 2017, Vienna, 23-28 April 2017

• Muñoz-Sabater J., P. de Rosnay, C. Albergel, and L. Isaksen, poster presentation on "Sensitivity of soil moisture analyses to contrasting background and observation error scenarios"
• de Rosnay P., J. Muñoz-Sabater, C. Albergel, and L. Isaksen, poster presentation on "Comparison between SMOS brightness temperature observations and ECMWF ERA-Interim based brightness temperature"
• de Rosnay P., E. Holm, M. Bonavita, and S. English, oral highlighted presentation on "Integrated Land Data Assimilation System for Numerical Weather Prediction at the European Center for Medium-Range Weather Forecasts"
• Polcher J., A. Barella-Ortiz, M. Piles, E. Gelati, and P. de Rosnay, PICO presentation on "Using SMOS brightness temperature and derived surface-soil moisture to characterize surface conditions and validate land surface models"

EARSeL: de Rosnay et al. Snow data assimilation for NWP", EARSeL, Bern, Switzerland, 6-9 February 2017
2016

EUMETSAT conference,

International Symposium on Data Assimilation, Reading University, 18-22 July 2016

Eastern Snow Conference, Ohio State University, 15-16 June 2016

ESA Living Planet Symposium, Prague, 9-13 May 2016
de Rosnay P., C Albergel, J Munoz Sabater, N Rodriguez Fernandez, H Hersbach, E Dutra, G. Balsamo, F. Pappenberger, L Isaksen, S English, D Dee, oral presentation on "Review of satellite data usage for soil moisture analyses at ECMWF"

2015

de Rosnay P., J. Muñoz-Sabater, C. Albergel, N. Rodriguez-Frenández, H Hersbach, L. Isaksen, G. Balsamo, F. Pappenberger and S. English, oral on "Assimilation of land surface satellite data for numerical weather prediction at ECMWF"


EUMETSAT conference, Toulouse, 21-25 September 2015

Baugh C. P. de Rosnay and F. Pappenberger: poster on "Using the next generation of satellite mission data in the ECMWF NWP system and in the EFAS and GloFAS flood models"

IGARSS, Milan, 26-31 July 2015
Munoz-Sabater J., P. de Rosnay, C. Albergel, G. Balsamo, L. Isaksen and M. Drusch: "Assimilation of L-band brightness temperatures in the ECMWF land data assimilation system: advancements and future plans"

IUGG 26th General Assembly, Prague, 22 June - 2 July 2015

European Geosciences Union (EGU) General Assembly, Vienna, 12 April - 17 April 2015
Barella-Ortiz A., J. Polcher, M. Piles, P. de Rosnay, and E. Gelati: "Comparison of measured brightness temperatures from SMOS with modelled ones from ORCHIDEE and HTESSEL over the Iberian Peninsula”. (EGU2015-10686)
Boussetta S., G. Balsamo, E. Dutra, A. Beljaars, C. Albergel, P. De Rosnay, and J. Munoz-Sabater: "Impact of vegetation cover variability on surface energy and carbon fluxes". (EGU2015-14931)
Brocca L., C. Albergel, C. Massari, L. Ciabatta, T. Moramarco, and P. de Rosnay: “Rainfall estimation from soil moisture data: crash test for SM2RAIN algorithm” (EGU2015-2464)

2014

4th International Symposium on Recent Advances in Quantitative Remote Sensing: RAQRSIV, Valencia, Spain, 22-26 September 2014
EUMETSAT Meteorological Satellite Conference, Geneva, Switzerland, 22 - 26 September 2014

Albergel, C., P. de Rosnay, J. Muñoz-Sabater, L. Isaksen: "Root zone soil moisture monitoring using a land data assimilation system"


IGARSS, Québec, Canada, 14-18 July 2014


Muñoz-Sabater J., P. de Rosnay, C. Albergel, L. Isaksen, M. Drusch, oral: "Impact of SMOS data in the forecast of surface and near-surface atmospheric variables; Sensitivity to key components of the assimilation system"


European Geosciences Union (EGU) General Assembly, Vienna, 28 April - 2 May 2014


de Rosnay P., Muñoz Sabater J., Mallas, I., Albergel C. and Isaksen L., oral "Use of SMAP for Numerical Weather Prediction: monitoring of SMAP brightness temperature at ECMWF"


2013

EUMETSAT Meteorological satellite conference, Vienna, 16-20 September 2013


Albergel C., Balsamo G., de Rosnay P., Muñoz Sabater J., Isaksen L., Dorigo W., Wagner W., Reichle R., de Jeu R. and Brocca L. oral (Keynote talk): "Monitoring the consistency of Earth observation data through land surface modelling: an example for multi-decadal soil moisture from remote sensing"

ESA living planet symposium, Edinburgh, 09-13 September 2013


IGARSS, Melbourne, 22-26 July 2013


American Meteorological Society Annual Meeting, 07-10 January 2013, Austin

Albergel C., Balsamo G. and de Rosnay P., oral: "On the quality of re-analysis and merged microwave spaceborne soil moisture products: global trends and ability to represent in situ measurements"

2012

EUMETSAT conference, Sopot, Poland, 3-7 September 2012

IGARSS, Munich, 22-27 July 2012

de Rosnay P., L. Isaksen, G. Balsamo, C. Albergel and J. Muñoz Sabater, invited oral: " Operational Land Surface data assimilation: The NWP example"

Muñoz Sabater J., P. de Rosnay, M. Drusch, L. Isaksen, A. Fouilloux, "Preparation of the ECMWF EKF for the assimilation of SMOS brightness temperatures"

38th COSPAR Scientific Assembly

Muñoz Sabater, de Rosnay P., Fouilloux, C. Albergel, M. Drusch and L. Isaksen: Assimilation os SMOS brightness temperatures in the ECMWF EKF for the analysis of soil moisture 39th COSPAR Scientific Assembly, Mysore, India, 14-22 July 2012

European Geosciences Union (EGU) General Assembly, Vienna, 22-27 April 2012


de Rosnay P., C. Albergel, G. Balsamo, and J. Muñoz Sabater; EGU 2012, oral: " ASCAT data assimilation at ECMWF "


American Meteorological Society Annual Meeting, 22-26 January 2013, New Orleans


2011

AGU Fall Meeting, San Fransisco, 5-9 December 2011


Brocca L., Melone F., Moramarco T., Zucco G., Wagner W., Hasenauer S., de Rosnay P., Albergel C., Matgen P., Martin C."Assimilation of ASCAT, AMSR-E and ECMWF derived soil moisture product for flood forecasting"

EUMETSAT Meteorological Satellite Conference


IGARSS

de Rosnay P., G. Balsamo and L. Isaksen, Vancouver, Canada, 24-29 July 2011, oral: "Snow analysis for Numerical Weather Prediction at ECMWF" (pdf)

Muñoz Sabater J., P. de Rosnay, M. Drusch, M. Dahoui, S. Mecklenburg, Vancouver, Canada, 24-29 July 2011, poster: "Preparation of the ECMWF soil moisture analysis to the assimilation of SMOS data"

EUMETSAT/ ESA Scatterometer Science Conference 2011

de Rosnay P.,. Albergel, L. Brocca, K. Scipal, M. Drusch, Darmstadt, 11-13 April 2011, "ASCAT soil moisture data assimilation at ECMWF"

EGU (European Geosciences Union General Assembly 2011)

de Rosnay P., J. Muñoz Sabater, C. Albergel, G. Balsamo, K. Scipal, M. Drusch, Vienna, 4-8 April 2011, oral: "Use of satellite data for soil moisture analysis at ECMWF"

Hasenauer, S., W. Wagner., B. Zeiner, A. Jann, P. de Rosnay, C. Albergel, Vienna, 4-8 April 2011, oral: " H-SAF soil moisture products based on METOP-ASCAT scatterometer data ".

Gruhier, C. Pellarin, T., de Jeu R., de Rosnay, Y. Kerr, Vienna, 4-8 April 2011, "SMOS Soil Moisture product evaluation over West Africa ".

Muñoz Sabater, J., P. de Rosnay, M. Dahoui, M. Drusch, Vienna, 4-8 April 2011, poster: " Monitoring SMOS data at ECMWF "

Su, B. P. de Rosnay, J. Wen, L. Wang, Vienna, 4-8 April 2011, poster: " Ability of the ECMWF model in simulating and analysis of root zone soil moisture on the Tibetan plateau "

American Meteorological Society, 91st Annual Meeting
2010

**ESA, ILEAPS, EGU joint Conference**


**IGARSS**


**38th COSPAR Scientific Assembly**

Muñoz Sabater, de Rosnay P., Fouilloux, A., Dahoui M., Dragosavac M. 38th COSPAR Scientific Assembly, Bremen, Germany, 18-25 July 2010, oral: “Preparation activities for the assimilation of SMOS data at ECMWF”

**ESA Living Planet Symposium**

de Rosnay P., J. Muñoz Sabater, G. Balsamo, M. Drusch, K. Scipal, L. Isaksen ESA Living Planet Symposium, Bergen, Norway, 28 June - 2 July 2010, oral: “SMOS L-band brightness temperatures compared to others passive microwave sensors over West Africa”

**EGU**


**WMO conference**

Drusch M., de Rosnay P., Muñoz Sabater J., Balsamo G.Fifth WMO International Symposium on Data Assimilation of Observations in Meteorology, Oceanography and Hydrology,5-9 October 2009, oral: “Using SMOS observations in ECMWF’s Land Surface Analysis System”

**AMMA conference**


Gruhier, C. Peugeot, C. Ottlé, S. Saux-Picart, M. Zribi IGARSS, 12-17 July 2009, oral: "Evaluation of remote sensing products over the AMMA-CATCH observatory in West Africa"

Gruhier C., F. Cabot, Y. Kerr and P. de Rosnay IGARSS, 12-17 July 2009, oral: "Access to soil moisture values over a Sahelian area: modeling, remote sensing, and ground measurements"

Muñoz Sabater, P. de Rosnay, G. Balsamo, M. Drusch IGARSS, 12-17 July 2009, oral: "ECMWF activities in preparation for the launch of the SMOS satellite"

Muñoz Sabater, P. de Rosnay, G. Balsamo IGARSS, 12-17 July 2009, oral: "Sensitivity of L-band brightness temperatures to soil roughness parameterization. The SMOSREX case study"

EGU


Gruhier C., F. Cabot, Y. Kerr, and P. de Rosnay, EGU General Assembly; Vienna, 19-24 April 2009, poster: "Brightness temperatures provided by SMOS simulations compared to current passive microwave measurements over semi-arid region"

Gruhier C., P. de Rosnay and J.-P. Wigneron, EGU General Assembly; Vienna, 19-24 April 2009, oral: "Retrieval of soil moisture based on passive microwave measurements from AMSR-E over a Sahelian region"


2008

AGU (fall meeting)

Drusch M., K. Scipal, P. de Rosnay, G. Balsamo, American geophysical Union (AGU) fall meeting, 15-19 December 2008, San Fransisco, "Analysing soil moisture using the extended Kalman filter: Applications and results from ECMWF's global forecasting system"

Gruhier C., P. de Rosnay, Y. Kerr, L. Kergoat, American geophysical Union (AGU) fall meeting, 15-19 December 2008, San Fransisco, "Evaluation of microwave soil moisture products based on two years of ground measurements over a Sahelian region"

MICRORAD:


EGU:


Drusch M., P. de Rosnay, K. Scipal, G. Balsamo, E. Andersson, EGU General Assembly; Vienna, 13-18 April 2008 “Analysing land surface parameters for NWP applications: Developments at ECMWF”

Escorihuela M.J., Y. Kerr, A. Chanzy, P. de Rosnay, and J. P. Wigneron, EGU General Assembly; Vienna, 13-18 April 2008 “On the effective penetration depth of L-band radiometry and the validation of SMOS data: a case study”

Gruhier C., P. de Rosnay, L. Kergoat, E. Mougin, EGU General Assembly; Vienna, 13-18 April 2008 Evaluation of soil moisture products from several sensors over a semi-arid region based on ground soil moisture measurements

Gruhier C., P. de Rosnay, Wigneron, J.-P., EGU General Assembly; Vienna, 13-18 April 2008 Surface soil moisture retrieval based on brightness temperature from AMSR-E over a semi-arid region


IGARSS:


2007


Kergoat, L., P. Hiernaux and the AMMA Land surface working group, EGU General Assembly; Vienna, 15-20 April 2007. Oral presentation: “Land surface in AMMA : Extending ecosystem, energy and water balance studies in space and time is sometime surprising.”


2006

Schmugge T., K. Ogawa, P. de Rosnay, AGU meeting, Dec 2006, “The soil moisture dependence of thermal infrared emissivity as observed from space”


de Rosnay P., Baup F., Timouk F., Le Danec V., Kergoat L., Lavenu F., Mougin E., EGU General Assembly; Vienna, 2-7 April 2006. Poster presentation: “Multi-scale soil moisture monitoring in the Gourma meso scale site: from local station network to remote sensing approaches”

Baup F., Mougin E., de Rosnay P., Timouk F., Lavenu F., Chenerie I., EGU General Assembly; Vienna, 2-7 April 2006. Poster presentation: “Surface soil moisture estimation of sahelian rangelands (Mali) using ENVISAT ASAR data”


Delon C., Serça D., Tulet P., Dupont R., Boissard C., de Rosnay P., EGU General Assembly; Vienna, 2-7 April 2006. Poster presentation: “NO emissions from soils and impact on tropospheric chemistry in the framework of AMMA”

2005


Delon C., Serça D., Dupont R., de Rosnay P., Timouk F., Mougin E. AMMA 1st International conference; Dakar, 28 November - 4 December 2005. "NO emission from soil in tropical conditions"


Cohard J.M., Mercier B., Laurent J.-P., Pellarin T., Kerr Y., de Rosnay P., Colloque ECCO; Toulouse 5-7 December 2005. Poster: "Développement de radiomètres microondes pour la mesure des teneurs en eau de surface : mise au point et premiers tests d'un radiomètre à 4.3 GHz (bande C)"


Mougin E., Baup F., Ceschia E., Damesin C., Delon C., Demarez V., de Rosnay P., Epron D., Hiernaux P., Jarlan L., AMMA Gourma EGU 2nd General Assembly; Vienna, 24-29 April 2005. Poster presentation: "Overview of research activities at the Gourma meso-scale site (Mali)"


2004


Escorihuela M.J., Kerr Y., Calvet J.-C., Wigneron J.-P., de Rosnay P., MICRORAD'04; Rome (Italy), 24-27 February 2004. Oral presentation: "Soil moisture retrieval from two different vegetated sites - bare soil and follow- with LEWIS 1.4 Ghz radiometer"


2003

Polcher J., Laval K., Musat I., de Rosnay P., Vivant A.C., Royal Meteorological Society; Norwich (UK), 1-5 September 2003. Oral presentation: "The impact of climate change and irrigation on the water cycle of the Asian continent"


de Rosnay P., Polcher J., Laval K., Sabre M., EGS-AGU-EUG General assembly; Nice (France), 6-11 April 2004. Poster presentation: "Sensitivity of the land surface fluxes to irrigation in India"

de Rosnay P., Polcher J., Laval K., Conference on monsoon environments: Agricultural and hydrological impacts of seasonal variability and climate change (EU PROMISE, ICTP, WCRP and START/CLIMAG); Trieste (Italy), 24-28 March 2003. Oral presentation: "Impact of irrigation over India on land surface fluxes. Off-line experiments with ORCHIDEE"

Polcher J., Vivant A.C., Laval K., Musat I., de Rosnay P., Conference on monsoon environments: Agricultural and hydrological impacts of seasonal variability and climate change (EU PROMISE, ICTP, WCRP and START/CLIMAG); Trieste (Italy), 24-28 March 2003. Oral presentation: "The river routing scheme of ORCHIDEE and its interactions with climate variability"

de Rosnay P., Polcher J. Laval K., 14th Symposium on Global Change and Climate Variations; American Meteorological Society Long Beach (USA), 9-13 February 2003. Oral presentation: "Impact of irrigation over India on the land surface fluxes"

2002

2001

2000

1999

1998
de Rosnay P., Polcher J., 23 general assembly of the European Geophysical Society, Nice (France), April 1998. Oral presentation: "A new parameterization of soil hydrology in the LMD GCM"

1996