Daniela Meloni

CURRICULUM VITAE

Personal references

Nationality: Italian
Place of birth: Terni, Italy
Date of birth: 22/11/1973

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Education

Degree in Physics (1999) and PhD in Remote Sensing (2005) at the University of Rome "La Sapienza".

Professional experience

1999-2000	Contract at the Physics Department of the University of Rome "La Sapienza" within the project "Lidar development on stratospheric planes".
2000-2001	Research fellowship at the National Agency for New Technology, Energy and Environment (ENEA) on climate change in the Mediterranean region.
2004-2008	Post-doc at the National Agency for New Technology, Energy and Environment (ENEA) on the impact of atmospheric aerosol and greenhouse gases on climate change.
2009-	Permanent position as researcher at Italian National Agency for New Technology, Energy and Sustainable Economic Development (ENEA) in the Earth Observation and Analyses Laboratory.
2015-	Head of the ENEA Laboratory for Observations and Analyses of Earth and Climate.

Research interests and achievements

Her scientific activity has been dedicated to study the radiation budget and the role of atmospheric aerosol and gases in modulating solar and terrestrial radiation.

Her main interests concern:

- the characterization of the optical properties of different aerosol types and the evaluation of their impact on the radiation field, from the ultraviolet to the infrared spectral regions;

- the use of different radiative transfer models (STAR, TUV, libRadtran, MODTRAN);

- the characterization, calibration and quality control of solar and infrared radiometers under different climatic regimes;

- measurements of solar and infrared radiation, ozone, aerosol, and greenhouse gases carried out at the Station for Climate Observation in Lampedusa and at the Thule High Arctic Atmospheric Observatory at Thule Air Base in Greenland.

She earned experience in monitoring and analysing atmospheric parameters from ground-based, airborne and spaceborne instruments. She participated to several national and international research projects and to field campaigns in the Mediterranean and in the Arctic.

She has been an active reviewer in various scientific Journals, and participated to several international conferences. She has been supervisor of bachelor degree and post-doc.

She is author/co-author of more than 44 papers on international peer-reviewed journals, with h-index=21 (Scopus).

Research responsibilities

2010- PI of the AERONET Cimel of the ENEA Station for Climate Observations in Lampedusa.

2008 PI of the Ground-based and Airborne Measurements of Aerosol Radiative Forcing (GAMARF), supported by the EUropean Facility for Airborne Research (EUFAR).

2013- PI of the Study of the water VApour in the polar AtmosPhere project (SVAAP), supported by the Italian Antarctic Program (PNRA).

Reviewer in scientific journals

Atmospheric Chemistry and Physics, Atmospheric Environment, Atmospheric Research, Geoscience and Remote Sensing Letters, Journal of Atmospheric and Solar-Terrestrial Physics, Journal of Geophysical Research, Oceanologia, Quarterly Journal of the Royal Meteorological Society, The Open Atmospheric Science Journal.

Publications in peer-reviewed journals

1. Meloni D., Casale G. R., Siani A. M., Palmieri S., Cappellani F., Solar UV dose patterns in Italy, Photochemistry and Photobiology, 71, 681-690, 2000.

2. Meloni D., di Sarra A., DeLuisi J. J., Di Iorio T., Fiocco G., Junkermann W., Pace G., Tropospheric aerosols in the Mediterranean: 2. Radiative effects through model simulations and measurements, Journal of Geophysical Research, 108(D10), 4317, doi:10.1029/2002JD002807, 2003.

3. Meloni D., di Sarra A., Fiocco D., Junkermann W., Tropospheric aerosols in the Mediterranean: 3. Measurements and modeling of actinic radiation profiles, Journal of Geophysical Research, 108(D10), 4323, doi:10.1029/2002JD003293, 2003.

4. Meloni D., di Sarra A., Di Iorio T., Fiocco G., Direct radiative forcing of Saharan dust in the Mediterranean from measurements at Lampedusa island and MISR space-borne observations, Journal of Geophysical Research, 109, D08206, doi:10.1029/2003JD003960, 2004.

5. Meloni D., di Sarra A., Di Iorio T., Fiocco G., Influence of the vertical profile of Saharan dust on the visible direct radiative forcing, Journal of Quantitative Spectroscopy and Radiative Transfer, 93(4), 397-413, 2005.

6. Meloni D., di Sarra A., Herman J. R., Monteleone F., Piacentino S., Comparison of ground-based and Total Ozone Mapping Spectrometer erythemal UV doses at the island of Lampedusa in the period 1998-2003: Role of tropospheric aerosols, Journal of Geophysical Research, 110, D01202, doi:10.1029/2004JD005283, 2005.

7. Pace G., Meloni D., di Sarra A., Forest fire aerosol over the Mediterranean basin during summer 2003, Journal of Geophysical Research, 110, D21202, doi:10.1029/2005JD005986, 2005.

8. Pace G., di Sarra A., Meloni D., Piacentino S., Chamard P., Aerosol optical properties at Lampedusa (Central Mediterranean), 1. Influence of transport and identification of different aerosol types, Atmospheric Chemistry and Physics, 6, 697-713, 2006.

9. Meloni D., di Sarra A., Pace G., Monteleone F., Aerosol optical properties at Lampedusa (Central Mediterranean), 2. Determination of single scattering albedo at two wavelengths for different aerosol types, Atmospheric Chemistry and Physics, 6, 715-727, 2006.

10. Meloni D., di Sarra A., Biavati G., DeLuisi J.J., Monteleone F., Pace G., Piacentino S., Sferlazzo D.M., Seasonal behavior of Saharan dust events at the Mediterranean island of Lampedusa in the period 1999-2005, Atmospheric Environment, 41, 3041-3056, 2007.

11. Artuso F., Chamard P., Piacentino S., di Sarra A., Meloni D., Monteleone F., Sferlazzo D., Thiery F., Analysis of atmospheric methane measurements in Lampedusa during 1995-2005, Atmospheric Environment, 41, 3877-3888, 2007.

12. di Sarra A., G. Pace, D. Meloni, L. De Silvestri, S. Piacentino, F. Monteleone, Surface shortwave radiative forcing of different aerosol types in the central Mediterranean, Geophysical Research Letters, 35, L02714, doi:10.1029/2007GL032395, 2008.

13. Meloni D., A. di Sarra, F. Monteleone, G. Pace, S. Piacentino, D.M. Sferlazzo, Seasonal transport patterns of intense Saharan dust events at the Mediterranean island of Lampedusa, Atmospheric Research, 88, 134-148, 2008.

14. di Sarra A., D. Fuà, M. Cacciani, T. Di Iorio, P. Disterhoft, D. Meloni, F. Monteleone, S. Piacentino, D. Sferlazzo, Determination of ultraviolet cosine corrected irradiances and aerosol optical thickness by combined measurements with a Brewer spectrophotometer and a MultiFilter Rotating Shadowband Radiometer, Applied Optics, 47(33), 2008.

15. Artuso F., P. Chamard, S. Piacentino, D.M. Sferlazzo, L. De Silvestri, A. di Sarra, D. Meloni, F. Monteleone, Influence of transport and trends in atmospheric CO2 at Lampedusa, Atmospheric Environment, 43(19), 3044-3051, 2009.

16. Di Iorio T., A. di Sarra, D.M. Sferlazzo, M. Cacciani, D. Meloni, F. Monteleone, D. Fuà , G. Fiocco, Seasonal evolution of the tropospheric aerosol vertical profile in the central Mediterranean and role of desert dust, Journal of Geophysical Research, 114, D02201, doi:10.1029/2008JD010593, 2009.

17. Di Biagio C., A. di Sarra, D. Meloni, F. Monteleone, S. Piacentino, D. Sferlazzo, Measurements of Mediterranean aerosol radiative forcing and influence of the single scattering albedo, Journal of Geophysical Research, 114, D06211, doi:10.1029/2008JD011037, 2009.

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20. Gómez-Amo J. L., A. di Sarra, D. Meloni, M. Cacciani, M. P. Utrillas, Sensitivity of shortwave radiative fluxes to the vertical distribution of aerosol single scattering albedo in the presence of a desert dust layer, Atmospheric Environment, 44, 2787-2791, 2010.

21. Artuso F., P. Chamard, S. Chiavarini, A. di Sarra, D. Meloni, S. Piacentino, D. M. Sferlazzo, Tropospheric halocompounds and nitrous oxide monitored at a remote site in the Mediterranean, Atmospheric Environment, 44, 4944-4953, 2010.

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Mount Etna eruption of 25–27 October 2013, Atmos. Chem. Phys., 16, 6841-6861, doi:10.5194/acp-16-6841-2016, 2016.

39. Becagli S., et al., Relationships linking primary production, sea ice melting, and biogenic aerosol in the Arctic, Atmospheric Environment, 136, 1-15, 2016.

40. Trisolino P., A. di Sarra, D. Meloni, and G. Pace, Determination of global and diffuse photosynthetically active radiation from multi-filter shadowband radiometer (MFRSR), Applied Optics, 55(29) 8280-8286, 2016.

41. Sellitto et al., The impact of Mount Etna sulfur emissions on the atmospheric composition and aerosol properties in the central Mediterranean: A statistical analysis over the period 2000-2013 based on observations and Lagrangian modelling, Atmospheric Environment, 148, 77-88, 2017.

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Publications in conference proceedings

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2. Meloni D., Casale G.R., Siani A.M., Palmieri S., Cappellani F., UV irradiance patterns in Italy, in Chemistry and Radiation Changes in the Ozone Layer, pp. 187-193, edited by C. S. Zerefos, I. S. A. Isaksen, I. Ziomas, NATO Science Series C: Mathematical and Physical Sciences, Vol. 557, Kluwer Academic Publishers, 2000.

3. Casale G.R., Meloni D., Miano S., Siani A.M., Palmieri S., Cappellani F., Investigation on different total ozone time scale components, in Chemistry and Radiation Changes in the Ozone Layer, pp. 383-388, edited by C. S. Zerefos, I. S. A. Isaksen, I. Ziomas, NATO Science Series C: Mathematical and Physical Sciences, Vol. 557, Kluwer Academic Publishers, 2000.

4. di Sarra A., Cacciani M., Campanelli M., Chamard P., Cornwall C., DeLuisi J., De Silvestri L., Di Iorio T., Disterhoft P., Fiocco G., Fuà D., Grigioni P., Junkermann W., Marenco F., Meloni D., Monteleone F., Olivieri B., Radiation, ozone, and aerosol measurements at Lampedusa during the PAUR II campaign, in IRS 2000: Current problems in atmospheric radiation, Proceedings of the International Radiation Symposium, S. Petersburg, Russia, 24-29 July 2000, edited by W. L. Smith e Yu. M. Timofeyev, A. Deepak Publishing, Hampton, Virginia, 2001.

5. Meloni D., di Sarra A., Chamard P., Monteleone F., Pace G., Piacentino S., Daily erythemal dose at Lampedusa island from Brewer measurements and TOMS observations in the period 1998-2002: The role of tropospheric aerosols, in OZONE, Proceedings of the XX Quadriennial Ozone Symposium 1-8 June 2004, Kos, Greece, edited by Christos S. Zerefos, 2004.

6. di Sarra A., Chamard P., Di Iorio T., Fiocco G., Meloni D., Monteleone F., Pace G., Piacentino S., Correlated behaviour of total ozone and aerosol optical depth in the central Mediterranean, in OZONE, Proceedings of the XX Quadriennial Ozone Symposium 1-8 June 2004, Kos, Greece, edited by Christos S. Zerefos, 2004.

7. Pace, G.; di Sarra, A.; Meloni, D.; Piacentino, S.; Chamard, P., Observations of column aerosol optical properties at the ENEA remote Station for Climate Observations at Lampedusa: influence of transport and classification of distinct aerosol types, in Geophysical Research Abstracts Volume 7, European Geosciences Union, General Assembly, April 24-29, Vienna, Austria, 2005.

8. di Sarra, A.; Pace, G.; Meloni, D., Impact of forest fires on the Mediterranean aerosol burden in summer 2003, in Geophysical Research Abstracts Volume 7, European Geosciences Union, General Assembly, April 24-29, Vienna, Austria, 2005.

9. Meloni, D.; di Sarra, A.; Herman, J. R.; Monteleone, F.; Piacentino, S., Comparison of versions 7 and 8 TOMS erythemal UV doses with ground-based measurements at the island of Lampedusa in the period 1998-2003, in Geophysical Research Abstracts Volume 7, European Geosciences Union, General Assembly, April 24-29, Vienna, Austria, 2005.

10. di Sarra , A.; Pace, G.; Meloni, D.; De Silvestri, L.; Monteleone, F.; Piacentino, S.; Sferlazzo, D., Determination of the aerosol direct radiative forcing efficiency at the surface in the Central Mediterranean, in Geophysical Research Abstracts Volume 8, European Geosciences Union, General Assembly, April 2-7, Vienna, Austria, 2006.

11. Meloni, D.; di Sarra, A.; Biavati, G.; DeLuisi, J. J.; Monteleone, F.; Pace, G.; Piacentino, S.; Sferlazzo, D. M., Seasonal behavior of Saharan dust events at the Mediterranean island of Lampedusa in the period 1999-2005, in Geophysical Research Abstracts Volume 9, European Geosciences Union, General Assembly, April 15-20, Vienna, Austria, 2007.

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