

CURRICULUM VITAE

PROF. GIANLUCA REDAELLI received a Laurea degree (cum Laude) in Physics from the University of L'Aquila, Italy (1991) and a Ph. D. degree in Geophysics from the University of Genoa, Italy (1995). He joined the Atmospheric Physics Group of the University of L'Aquila in 1991 and he is now in charge of the Climatological Modelling branch of the Centre of Excellence for the integration of remote sensing and numerical modelling for the forecast of severe weather (CETEMPS) of that University. He is Associate Professor at the Department of Physical and Chemical Sciences of the University of L'Aquila in the GEO12 SSD (Oceanography and Physics of the Atmosphere).

RESEARCH. His research interests centre on numerical modelling of chemical and dynamical processes in the atmosphere. Research have focused on developing and using global models of the stratosphere based on lagrangian approaches and three-dimensional atmospheric chemical-transport models (CTMs) containing a detailed description of the chemical processes of the stratosphere. He has expertise in using General Circulation Models to study the impact on global climate of the trend in oceanic surface temperatures and Regional Climate Models to investigate regional impact of climate change and produce seasonal forecasts. Research activities include also participation to various international field campaigns and collaborations with Italian and foreign University and Research Centres (University of Oxford, NASA, University of Cambridge, Finnish Meteorological Institute, Catholic University of Argentina etc.).

EXPERIENCE. In 1992 he was at FMI in Finland, for to the EU arctic measurement campaign EASOE and later that year he was Visiting Scientist at the Atmospheric Chemistry and Dynamics Branch of the NASA/Goddard Space Flight Centre (USA). From 1993 to 1994 he was private consultant first for TELESPAZIO and then for the Department of Physics of the University of L'Aquila. In 1995 he was back at NASA/GSFC as a Research Scientist. From 1996 to 1998 he was again private consultant for the Department of Physics of the University of L'Aquila. From 2000 to 2002 he was Research fellow of the National Institute for the Physics of Matter (INFN). In 2002 he represented Italy at the WMO/UNEP Meeting of the Ozone Research Managers of the Parties to the Vienna Convention for the Protection of the Ozone Layer, in Geneva. In 2002 he became Assistant Professor at the Physics department of the University of L'Aquila, where he's now working as Associate Professor, since 2015.

PUBLICATIONS. Prof. Redaelli has published more than 50 scientific papers on refereed international journals and is a reviewer for Journal of Geophysical Research (AGU), Geophysical Research Letters (AGU) and Journal of Climate (AMS).

ORGANIZATION. Prof. Redaelli has been in the organizing committee of the World Climatic Research Program (WRCP) Special Workshop on "Climatic Effects of Ozone Depletion in the Southern Hemisphere" in 2013. He is in charge of the secondary school teacher training system for the university of L'Aquila.

TEACHING. Prof. Redaelli has been teaching at the University of L'Aquila since 2001. His teaching activity includes courses on General Physics, Physics of the Atmosphere and of the Ocean, Atmospheric Modelling and Climate Changes. He's been tutor of undergraduate, graduate and PHD students.

PROJECTS. Since 1991 prof. Redaelli has been participating to several international project, often with coordination dues. Those includes: ESAOE (EU), CMP/UARS (NASA), SPADE (NASA), MOANA (EU), APE (EU), SAONAS (EU), APE/THESEO (EU), APE/GAIA (CE), ENVISAT CAL/VAL (ESA), ENVISAT CAL/VAL (ESA), APE/ENVISAT (ASI), APE/INFRA (CE), Antarctic O3 (MAE), STAGE (PNRA), Antarctic O3 (MAE), SCOUT-O3 (CE), QUITSAT (ASI), AIACE (PNRA),

HONOURS. Prof. Redaelli was the recipient of the NASA Group Achievement Award, UARS Team, 2006.

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PUBLICATIONS

1. L. SANGELANTONI, A. RICCHI, R. FERRETTI AND G. REDAELLI (2021) Dynamical Downscaling in Seasonal Climate Forecasts: Comparison between RegCM- and WRF-Based Approaches, *Atmosphere*, 12(6), 757, DOI:10.3390/atmos12060757
2. R. FERRETTI, LOMBARDI A., TOMASSETTI B., SANGELANTONI L., COLAIUDA V., MAZZARELLA V., MAIELLO I., VERDECCHIA M. AND REDAELLI G. (2020) A meteorological–hydrological regional ensemble forecast for an early-warning system over small Apennine catchments in Central Italy, *Hydrology and Earth System Sciences*, 24(6), 3135-3156, DOI:10.5194/hess-24-3135-2020
3. L. SANGELANTONI, B. TOMASSETTI, V. COLAIUDA, A. LOMBARDI, M. VERDECCHIA, R. FERRETTI AND G. REDAELLI (2019) On the Use of Original and Bias-Corrected Climate Simulations in Regional-Scale Hydrological Scenarios in the Mediterranean Basin, *Atmosphere*, 10(12), 799, DOI:10.3390/atmos10120799
4. L. SANGELANTONI, R. FERRETTI AND G. REDAELLI (2019) Toward a Regional-Scale Seasonal Climate Prediction System Over Central Italy based on Dynamical Downscaling, *Climate*, 7(10), 120, DOI:10.3390/cli7100120
5. M. REGI, M. DE LAURETIS, G. REDAELLI, P. FRANZIA (2018) ULF Geomagnetic Activity Signatures in the Atmospheric Parameters in Antarctica, *Antarctica-A Key to Global Change*, DOI:10.5772/intechopen.81106
6. M. REGI, G. REDAELLI, P. FRANZIA, M. DE LAURETIS (2017) ULF geomagnetic activity effects on tropospheric temperature, specific humidity, and cloud cover in Antarctica, during 2003-2010, *JOURNAL OF GEOPHYSICAL RESEARCH*, DOI: 10.1002/2017JD027107
7. M. REGI, M. DE LAURETIS, G. REDAELLI, P. FRANZIA (2016) ULF geomagnetic and polar cap potential signatures in the temperature and zonal wind re-analysis data in Antarctica, *JOURNAL OF GEOPHYSICAL RESEARCH*, DOI: 10.1002/2015JA022104
8. S.S. LEROY, G. REDAELLI, B. GRASSI (2014) Prioritizing Data for Improving the Multi-decadal Predictive Capability of Atmospheric Models, *JOURNAL OF CLIMATE*, doi:10.1175/jcli-d-14-00444.1
9. P.O. CANZIANI, A. O'NEILL, R. SCHOFIELD, M. RAPHAEL, G.J. MARSHALL, G. REDAELLI (2014). World Climate Research Program Special Workshop on Climatic Effects of Ozone Depletion in the Southern Hemisphere. *BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY*, DOI: 10.1175/BAMS-D-13-00143.1
10. GRASSI B., REDAELLI G, G. VISCONTI (2013). Arctic sea-ice reduction and extreme climate events over the Mediterranean region. *JOURNAL OF CLIMATE*, vol. 26, p. 10101-10110, ISSN: 0894-8755, DOI: 10.1175/JCLI-D-12-00697.1
11. GRASSI B., REDAELLI G, P. O. CANZIANI, G. VISCONTI (2012). Effects of the PDO phase on the tropical belt width. *JOURNAL OF CLIMATE*, vol. 25, p. 3282-3290, ISSN: 0894-8755, DOI: 10.1175/JCLI-D-11-00244.1
12. DI CIENZO, REDAELLI G, G. LACORATA (2010). Lagrangian diagnostics of transport properties, barrier effects and mixing rates for the stratospheric polar vortex through a dynamical systems approach (FSLE). *GEOPHYSICAL RESEARCH ABSTRACTS*, In: EGU General Assembly 2010. vol. Vol 12, EGU2010-11012, ISSN: 1607-7962
13. PAYAN, S, C. CAMY-PEYRET, H. OELHAF, G. WETZEL, G. MAUCHER, C. KEIM, M. PIRRE, N. HURET, A. ENGEL, M. C. VOLK, H. KUELLMANN, J. KUTTIPPURATH, U. CORTESI, G. BIANCHINI, F. MENCARAGLIA, P. RASPOLLINI, REDAELLI G, C.

- VIGOUROUX, M. DE MAZIÈRE, S. MIKUTEIT, T. BLUMENSTOCK, V. VELAZCO, J. NOTHOLT, E. MAHIEU, P. DUCHATELET, D. SMALE, S. WOOD, N. JONES, C. PICCOLO, V. PAYNE, A. BRACHER, N. GLATTHOR, G. STILLER, K. GRUNOW, P. JESECK, Y. TE, A. BUTZ (2009). Validation of version-4.61 methane and nitrous oxide observed by MIPAS. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, vol. 9, p. 413-442, ISSN: 1680-7316, DOI: 10.5194/acp-9-413-2009
14. GRASSI B, REDAELLI G, VISCONTI G (2009). Evidence for tropical SST influence on Antarctic polar atmospheric dynamics. *GEOPHYSICAL RESEARCH LETTERS*, vol. 36, ISSN: 0094-8276, DOI: 10.1029/2009GL038092
 15. GRASSI, B, REDAELLI G, G. VISCONTI (2008). Tropical SST Preconditioning of the SH Polar Vortex during Winter 2002. *JOURNAL OF CLIMATE*, vol. 21, p. 5295-5303, ISSN: 0894-8755, DOI: 10.1175/2008JCLI2136.1
 16. D. Y. WANG, M. HPFNER, C. E. BLOM, W. E. WARD, H. FISCHER, T. BLUMENSTOCK, F. HASE, C. KEIM, G. Y. LIU, S. MIKUTEIT, H. OELHAF, G. WETZEL, U. CORTESI, F. MENCARAGLIA, G. BIANCHINI, REDAELLI G, M. PIRRE, V. CATOIRE, N. HURET, C. VIGOUROUX, M. DE MAZIRE, E. MAHIEU, P. DEMOULIN, S. WOOD, D. SMALE, N. JONES, H. NAKAJIMA, T. SUGITA, J. URBAN, D. MURTAGH, C. D. BOONE, P. F. BERNATH, K. A. WALKER, J. KUTTIPURATH, A. KLEINBHL, G. TOON, C. PICCOLO (2007). Validation of MIPAS HNO₃ operational data. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, vol. 7, p. 4905-4934, ISSN: 1680-7316, DOI: 10.5194/acp-7-4905-2007
 17. U. CORTESI, J. C. LAMBERT, C. DE CLERCQ, G. BIANCHINI, T. BLUMENSTOCK, A. BRACHER, E. CASTELLI, V. CATOIRE, K. V. CHANCE, M. DE MAZIRE, P. DEMOULIN, S. GODIN-BEEKMANN, N. JONES, K. JUCKS, C. KEIM, T. KERZENMACHER, H. KUELLMANN, J. KUTTIPURATH, M. IARLORI, G. Y. LIU, Y. LIU, I. S. MCDERMID, Y. J. MEIJER, F. MENCARAGLIA, S. MIKUTEIT, H. OELHAF, C. PICCOLO, M. PIRRE, P. RASPELLINI, F. RAVEGNANI, W. J. REBURN, REDAELLI G, J. J. REMEDIOS, H. SEMBHI, D. SMALE, T. STECK, A. TADDEI, C. VAROTSOS, C. VIGOUROUX, A. WATERFALL, G. WETZEL, S. WOOD (2007). Geophysical validation of MIPAS-ENVISAT operational ozone data. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, vol. 7, p. 4807-4867, ISSN: 1680-7316, DOI: 10.5194/acp-7-4807-2007
 18. FERRETTI R, GENTILE S, REDAELLI G, TADDEI A (2007). An Evaluation of the dynamical structure of deep convection in the tropics using a mesoscale model and high-resolution back trajectories: a Hector event during SCOUT-O3 campaign. *GEOPHYSICAL RESEARCH ABSTRACTS*, In: EGU General Assembly 2007. vol. Vol 9, EGU2007-A-07310, ISSN: 1607-7962
 19. REDAELLI G, U. CORTESI, G. BIANCHINI, E. CASTELLI, B.M. DINELLI, B. GRASSI, F. MENCARAGLIA, A. TADDEI, G. VISCONTI (2007). Multi-technique comparison of MIPAS O₃ measurements with correlative data obtained by FIR-FTS measurements during the ENVISAT Stratospheric Aircraft and Balloon Campaigns (ESABC). In: Proc. of 3rd Workshop on the Atmospheric Chemistry Validation of ENVISAT (ACVE-3). ESA SP, vol. SP-642, ISSN: 0379-6566
 20. TADDEI A., REDAELLI G, G. VISCONTI (2007). A technique to validate MIPAS L2 products for March 2003. In: Proc. Of 3rd Workshop on the Atmospheric Chemistry Validation of ENVISAT (ACVE-3). ESA SP, vol. SP-642, ISSN: 0379-6566
 21. B. GRASSI, REDAELLI G, G. VISCONTI (2006). A physical mechanism of the atmospheric response over Antarctica to decadal trends in tropical SST. *GEOPHYSICAL RESEARCH LETTERS*, vol. 33, ISSN: 0094-8276, DOI: 10.1029/2006GL026509
 22. E. IVANOVA, C. M. VOLK, H. KLEIN, O. RIEDIGER, M. STRUNK, U. SCHMIDT, F. RAVEGNANI, A. ULANOVSKY, REDAELLI G (2006). Incomplete Ozone Loss and Weak Mixing in the outer Antarctic Vortex derived from airborne in situ observations. *GEOPHYSICAL RESEARCH ABSTRACTS*, In: EGU General Assembly 2006. vol. Vol 8, EGU06-A-09930, ISSN: 1607-7962

23. TADDEI A., REDAELLI G, GRASSI B., VISCONTI G. (2006). Self-Consistency Analysis of MIPAS Data Using the Trajectory Hunting Technique (THT). In: Proc. of Atmospheric Science Conference, ESRIN. ESA SP, vol. SP-628, ISBN: 92-9092-939-1, ISSN: 0379-6566
24. H.K. ROSCOE, S.R. COLWELL, J.D. SHANKLIN, J.A. KARHU, P. TAALAS, M. GIL, M. YELA, S. RODRIGUEZ, C. RAFANELLI, H. CAZENEUVE, C.A. VILLANUEVA, M. GINSBURG, S.B. DIAZ, R.L. DE ZAFRA, G. MUSCARI, REDAELLI G, R. DRAGANI (2005). Measurements from ground and balloons during APE-GAIA A polar ozone library. *ADVANCES IN SPACE RESEARCH*, vol. 36, p. 835-845, ISSN: 0273-1177, DOI: 10.1016/j.asr.2005.03.016
25. GRASSI B., REDAELLI G, G. VISCONTI (2005). Simulation of Polar Antarctic trends: influence of tropical SST. *GEOPHYSICAL RESEARCH LETTERS*, vol. 32, ISSN: 0094-8276, DOI: 10.1029/2005GL023804
26. G. GIOVANELLI, D. BORTOLI, A. PETRITOLI, E. CASTELLI, I. KOSTADINOV, F. RAVEGNANI, REDAELLI G, C. M. VOLKE, U. CORTESI, G. BIANCHINI, B. CARLI (2005). Stratospheric minor gas distribution over the Antarctic Peninsula during the APE-GAIA campaign. *INTERNATIONAL JOURNAL OF REMOTE SENSING*, vol. 26, p. 3343-3360, ISSN: 0143-1161
27. P. D'AULERIO, F. FIERLI, F. CONGEDUTI, REDAELLI G (2005). Analysis of water vapor LIDAR measurements during the MAP campaign: evidence of sub-structures of stratospheric intrusions. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, vol. 5, p. 301-310, ISSN: 1680-7316, DOI: 10.5194/acp-5-1301-2005
28. U. CORTESI, G. BIANCHINI, L. PALCHETTI, E. CASTELLI, B.M. DINELLI, REDAELLI G (2005). Results of mid-latitude MIPAS validation measurements obtained by the SAFIRE-A airborne spectrometer. In: Proceedings of the 2004 Envisat & ERS Symposium. ESA SP, vol. SP-572, ISBN: 92-9092-883-2, ISSN: 0379-6566
29. B. GRASSI, REDAELLI G, G. VISCONTI, U. CORTESI, G. BIANCHINI, E. CASTELLI (2005). Validation of ozone from MIPAS through assimilation in the chemical transport model STRATAQ. In: Proceedings of the 2004 Envisat & ERS Symposium. ESA SP, vol. SP-572, ISBN: 92-9092-883-2, ISSN: 0379-6566
30. B. GRASSI, REDAELLI G, G. VISCONTI (2004). Assimilation of stratospheric ozone in the chemical transport model STRATAQ. *ANNALES GEOPHYSICAE*, vol. 22, p. 2669-2678, ISSN: 0992-7689
31. PEET, V. RUDAKOV, V. YUSHKOV, REDAELLI G, A. R. MACKENZIE (2004). Ozone and water vapor in the austral polar stratospheric vortex and sub-vortex. *ANNALES GEOPHYSICAE*, vol. 22, p. 4035-4041, ISSN: 0992-7689
32. CAIRO, A. ARIANI, M. VITERBINI, G. DI DONFRANCESCO, V. MITEV, R. MATTHEY, M. BASTIANO, REDAELLI G, R. DRAGANI, R. FERRETTI, V. RIZI, T. PAOLUCCI, L. BERNARDINI, G. FIOCCO, M. CACCIANI, G. PACE (2004). Polar Stratospheric Clouds observed during the Airborne Polar Experiment - Geophysica Aircraft in Antarctica (APE-GAIA) Campaign. *JOURNAL OF GEOPHYSICAL RESEARCH, ATMOSPHERES*, vol. 109, ISSN: 0148-0227, doi: 10.1029/2003JD003930
33. L. STEFANUTTI, A. R. MACKENZIE, V. SANTACESARIA, A. ADRIANI, S. BALESTRI S. BORRMANN, V. KHATTATOV, P. MAZZINGHI, V. MITEV, V. RUDAKOV, C. SCHILLER, G. TOCI, M. VOLK, V. YUSHKOV, H. FLENTJE, C. KIEMLE, REDAELLI G, K. S. CARSLAW, K. NOONE, TH. PETER (2004). The APE-THESEO tropical campaign: an overview. *JOURNAL OF ATMOSPHERIC CHEMISTRY*, vol. 48, p. 1-33, ISSN: 0167-7764, DOI: 10.1023/B:JOCH.0000034509.11746.b8
34. GIOVANELLI, A. PETRITOLI, E. CASTELLI, D. BORTOLI, I. KOSTADINOV, F. RAVEGNANI, REDAELLI G, C. M. VOLK, U. CORTESI, G. BIANCHINI, B. CARLI (2004). Stratospheric minor gas distribution over the Antarctic Peninsula during the APE-GAIA campaign. In: proc. of the XX Quadrennial Ozone Symposium. vol. EUR 19867, p. 960-961, Office for Official Publications of the European Commission, ISBN: 960-630-103-6

35. U. CORTESI, G. BIANCHINI, L. PALCHETTI, E. CASTELLI, B.M. DINELLI, REDAELLI G (2004). MIPAS-ENVISAT validation measurements with the high resolution FT-FIR spectrometer SAFIRE-A aboard the stratospheric aircraft M-55 Geophysica. In: proc. of the XX Quadrennial Ozone Symposium. p. 526-527, ISBN: 960-630-103-6
36. SANTACESARIA V, CARLA R, MACKENZIE R, ADRIANI A, CAIRO F, DIDONFRANCESCO G, KIEMLE C, REDAELLI G, BEUERMANN J, SCHILLER C, PETER T, LUO BP, WERNLI H, RAVEGNANI F, ULANOVSKY A, YUSHKOV V, SITNIKOV N, BALESTRI S, STEFANUTTI L (2003). Clouds at the tropical tropopause: A case study during the APE-THESEO campaign over the western Indian Ocean. JOURNAL OF GEOPHYSICAL RESEARCH. ATMOSPHERES, ISSN: 0148-0227, doi: 10.1029/2002JD002166
37. C. E. BLOM, U. CORTESI, REDAELLI G (2003). ENVISAT validation: introduction to the correlative measurements by the chemistry payload on board the M-55 GEOPHYSICA. In: proc. of the 16th ESA Symp. on European Rocket and Balloon Programmes. ESA SP, vol. SP-530, ISBN: 92-9092-840-9, ISSN: 0379-6566
38. GIOVANELLI, REDAELLI G, A. PETRITOLI, D. BORTOLI, I. KOSTADINOV, F. RAVEGNANI (2003). Three validation methods of SCIAMACHY and MIPAS-e data with doas measurements obtained by the GASCOD/a4 spectrometer on board the GEOPHYSICA-M55 aircraft. In: proc. of the 16th ESA Symp. on European Rocket and Balloon Programmes. ESA SP, vol. SP-530, ISBN: 92-9092-840-9, ISSN: 0379-6566
39. B. GRASSI, REDAELLI G, G VISCONTI (2002). STRATAQ: a three-dimensional chemical transport model of the stratosphere. ANNALES GEOPHYSICAE, vol. 20, p. 847-862, ISSN: 0992-7689
40. R. DRAGANI, REDAELLI G, A. MARIOTTI, V.V. RUDAKOV, A.R. MACKENZIE, L. STEFANUTTI, G. VISCONTI (2002). High resolution stratospheric tracer fields reconstructed with lagrangian techniques: a comparative analysis of predictive skill. JOURNAL OF THE ATMOSPHERIC SCIENCES, vol. 59, p. 1943-1958, ISSN: 0022-4928
41. YUSHKOV V.A., SITNIKOV N.M., ULANOVSKII A.E, RAVEGNANI F., REDAELLI G (2001). Measurements of the ozone and water vapor contents in the stratospheric Antarctic cyclone from the high-altitude M55 Geophysica Aircraft. IZVESTIYA ATMOSPHERIC AND OCEANIC PHYSICS, vol. 37, p. 275-280, ISSN: 0001-4338
42. BOFFETTA, G. LACORATA, REDAELLI G, A. VULPIANI (2001). Detecting barriers to transport: A review of different techniques. PHYSICA D-NONLINEAR PHENOMENA, vol. 159, p. 58-70, ISSN: 0167-2789
43. B.CARLI, U.CORTESI, REDAELLI G, G. DE ROSSI, G. VIGNATO, C. RAFANELLI (2001). La campagna APE-GAIA (Airborne Polar Experiment Geophysica Aircraft In Antarctica) per lo studio della stratosfera antartica con un aereo da alta quota. BOLLETTINO GEOFISICO, vol. 3/4, p. 5-23, ISSN: 0393-0742
44. CARSLAW K., OELHAF H., CROWLEY J., GOUTAIL F., KNUDSEN B., LARSEN N., REDAELLI G, REX M., ROSCOE H., RUHNKE R., VOLK M. (2001). Chap.3.2: Polar Ozone: Antarctic Studies. In: Polar Ozone, European Research in the Stratosphere 1996-2000.
45. RIZI, F. MASCI, REDAELLI G, P. DI CARLO, M. IARLORI, G. VISCONTI, L.W. THOMASON (2000). Lidar and SAGE II observations of Shishaldin volcano aerosols and lower stratospheric transport. GEOPHYSICAL RESEARCH LETTERS, vol. 27, p. 3445-3448, ISSN: 0094-8276
46. B. STEIN, C. WEDEKIND, H. WILLE, F. IMMLER, M. MULLER, L. WOSTE, M. DEL GUSTA, M. MORANDI, L. STEFANUTTI, A. ANTONELLI, P. AGOSTINI, V. RIZI, REDAELLI G, V. MITEV, R. MATTHEY, R. KIVI, E. KYRO (1999). Optical classification, existence temperatures and coexistence of different PSC types. JOURNAL OF GEOPHYSICAL RESEARCH. ATMOSPHERES, vol. 104, p. 23983-23994, ISSN: 0148-0227
47. V. RIZI, REDAELLI G, G. VISCONTI, F. MASCI, C. WEDEKIND, B. STEIN, F. IMMLER, B. MIELKE, P. RAIROUX, L. WOSTE, M. DEL GUASTA, M. MORANDI, F.

- CASTAGNOLI, S. BALESTRI, L. STEFANUTTI, R. MATTHEY, V. MITEV, M. DOUARD, J.P. WOLF, E. KYRO, M. RUMMUKAINEN, R. KIVI (1999). Trajectory studies of polar stratospheric cloud lidar observations at Sodankyla (Finland) during SESAME: Comparison with box model results of particle evolution. *JOURNAL OF ATMOSPHERIC CHEMISTRY*, vol. 32, p. 165-181, ISSN: 0167-7764
48. HERVING M. E., K. S. CARSLAW, T H. PETER, T. DESHLER, L. L. GORDLEY, J. M. RUSSEL III, REDAELLI G (1997). Polar stratospheric clouds due to vapor enhancement: HALOE observations of the Antarctic vortex in 1993. *JOURNAL OF GEOPHYSICAL RESEARCH. ATMOSPHERES*, vol. 102, p. 28185-28193, ISSN: 0148-0227
49. REDAELLI G, L.R. LAIT, M. SCHOEBERL, P.A. NEWMAN, G. VISCONTI, A. D'ALTORIO, F. MASCI, V. RIZI, L. FROIDEVAUX, J.W. WATERS, A.J. MILLER (1994). UARS MLS ozone soundings compared with lidar measurements using the conservative coordinate reconstruction technique. *GEOPHYSICAL RESEARCH LETTERS*, vol. 21, p. 1535-1538, ISSN: 0094-8276
50. V. RIZI, REDAELLI G, M. VERDECCHIA G. VISCONTI, L. STEFANUTTI, J.P. WOLF (1994). Possible nitric acid coating formation over Pinatubo aerosols inferred with a microphysical code: a case study during EASOE. *GEOPHYSICAL RESEARCH LETTERS*, vol. 21, p. 1435-1438, ISSN: 0094-8276