

Curriculum Vitae

Sandra Barreira

1. Basic Information

Nationality: Argentina

Languages: Spanish - English

Gender: Female

Argentine Naval Hydrographic Service (SHN) -

Postal address: Meteorological Department/Argentine Navy

Meteorological Service (SMARA)

Tel/Fax: 54-11-4317-2309/54-11-4317-2309

Email: barreira.sandra@gmail.com/barreira@ara.mil.ar

2. Positions held:

2014 – present. Director of Research. Argentine Naval Hydrographic Service (SHN) - Meteorological Department (MD). Currently, five projects.

2009 – 2013. Principal Researcher/Scientist. SHN/MD - Director of two projects.

2006 – 2008. Associated Researcher/Scientist. SHN/MD- Director of two projects.

1988 - 2005. Assistant Researcher/Scientist. SHN/MD - In charge of several projects in different areas and the Numerical Modelling Centre.

1983 - 1987. Doctoral Scholarship of the National Council of Scientific and Technological Research. Department of Meteorological Sciences, University of Buenos Aires

1982 - 1990. Professor. Department of Meteorological Sciences, University of Buenos Aires (Subjects: Numerical Forecasting – Mathematical Analysis - Atmospheric Dynamics)

3. Expertise :

2001 - present. Antarctic and Arctic sea ice and climate. Ozono. Antarctic climatology. System tracking. Scientist in charge of the projects.

1998 - 2008. El Niño-Southern Oscillation. Scientist in charge of the projects.

1992 - 1997. Patagonia Winds. Scientist in charge of the projects.

1990 - 2001. Atmospheric Chemistry. Scientist in charge of the projects.

1988 - 2004. Numerical Modeling of the Atmosphere and Wave Modeling. Scientist in charge of the projects and the Numerical Modeling Centre.

3. Publications

Book

S. Barreira, 2012: Variabilidad espacial y temporal del hielo marino antártico. Relación con la circulación atmosférica. (In Spanish. Spatial and temporal variability of Antarctic sea ice. Relationship with atmospheric circulation) Editorial Académica Española - AV Akademikerlag GmbH & Co. KG, Germany, 493 pp, ISBN 978-3-659-02325-5.

Refereed Publications

- S. Stammerjohn, T. A. Scambos, S. Barreira, et al., 2017: Antarctica [in “State of the Climate in 2016”]. Bull. Amer. Meteor. Soc 98(8), S1-S277. DOI:10.1175/2017BAMSStateoftheClimate.1.
- S. Barreira y F. Orquera, 2017: Pronóstico del campo de hielo marino Antártico, Sesión Tectónica 18, Ciencias de la Crustácea, Libro del XX CONGRESO GEOLÓGICO ARGENTINO, 14-22.
- Salgado, H., F. Carballo, S. Masuelli, B. Lorenzo, A. Scardilli, R. Miño y S. Barreira, 2017: Aplicación de sistemas de microondas para detección de hielo marinos en la Antártida, Geotecnologías. Libro de Actas de XVII Simposio Internacional en Percepción Remota y Sistemas de Información Geográfica; editado por Walter F. Sione [et al.]. - 1a ed. - EdUnLu, 2017. Libro digital.
- S. Stammerjohn, S. Barreira, G. O. Braathen, et al., 2016: Antarctica [in “State of the Climate in 2015”]. Bull. Amer. Meteor. Soc., 97(8), S1-S275. DOI:10.1175/2016BAMSStateoftheClimate.1.
- Maier, E., S. Barreira y J. C. Simões, 2016: Análise da relação entre a $\delta^{18}\text{O}$ do Nevado Illimani com a distribuição espacial da precipitação sobre a América do Sul, Pesquisas em Geociências, Vol. 1, 5-16.
- Maier, E.L.B., Costi J., Barreira, S., and Simões, J.C., 2016: Precipitação na América do Sul: médias climáticas e padrões da variabilidade no período entre 1979 e 2008. Revista Brasileira de Geografia Física, Vol 9, N° 1, 032-046.
- Maier, E., S. Barreira y J. C. Simões, 2016: Relações entre as razões de isotópos de oxigênio na neve e no gelo do Nevado Illimani (Bolívia) com a variabilidade temporal da precipitação sobre a América do Sul, Aprobado para su publicación durante 2016 en Pesquisas em Geociências.
- R. L. Fogt, S. Stammerjohn, R. B. Alley, S. Barreira, et al., 2015: Antarctica [in “State of the Climate in 2014”]. Bull. Amer. Meteor. Soc., 96(7), S1-S267.

- R. L. Fogt, T. A. Scambos, S. Barreira, G. O. Braathen, D. H. Bromwich, et al., , 2014: Antarctica [in “State of the Climate in 2013”]. Bull. Amer. Meteor. Soc., Bull. Amer. Meteor. Soc., 95 (7), S1-S257.
- R. L. Fogt, T. A. Scambos, S. Barreira, et al., 2013. Antarctica [in “State of the Climate in 2012”]. Bull. Amer. Meteor. Soc., Bull. Amer. Meteor. Soc., 94 (8), S1-S258.
- Eder Leandro Bayer Maier, Sandra Barreira y Jefferson Cardia Simões, 2013: Zoneamento da Variabilidade Temporal da Precipitação na América do Sul Publicado en las actas del XV Simpósio Brasileiro de Geografia Física Aplicada: Uso e Ocupação da Terra e as Mudanças das Paisagens. CCHN. UFES, Vol 1, 1-9.
- R. Fogt, T. Scambos, S. Barreira, G. Braathen, et al., 2012. Antarctica [in “State of the Climate in 2011”]. Bull. Amer. Meteor. Soc., Bull. Amer. Meteor. Soc., 93 (7), S1-S282.
- Maier, E. L. B. y Barreira, S.C., 2012. Precipitação na América do Sul. In: V Seminário do programa de pós-graduação em geografia (UFRGS), 2012, Porto Alegre. V SPosgea, 2012.
- R. Fogt, S. Barreira, D. Bromwich, J. Burrows, S. Colwell, et al., 2011. Antarctica [in “State of the Climate in 2010”]. Bull. Amer. Meteor. Soc., 92 (6), S1–S237.
- S. Barreira and R. Compagnucci, 2011: Spatial fields of Antarctic sea-ice concentration anomalies for summer-autumn and their relationship to Southern Hemisphere atmospheric circulation during the period 1979-2009, Annals of Glaciology (52) 57, 140-150.
- S. Barreira y R. Compagnucci, 2011: Determinación de los principales patrones espaciales de concentración de hielo marino antártico y su relación con la circulación atmosférica en el Hemisferio Sur. Libro digital XVIII Congreso geológico Argentino, 1272-1280.
- S. Barreira, 2011: Series temporales de concentración de hielo marino en la Antártida: correlación con la temperatura y presión de superficie global. Libro digital XVIII Congreso geológico Argentino, 1281-1293
- R. Fogt, S. Barreira, D. Bromwich, S. Colwell, K. Jezek, et al., 2010. Chapter 6: Antarctica in State of the Climate in 2009, Antarctica. Bull. Amer. Meteor. Soc., 91, 7, S1-S222.
- R. Fogt, S. Barreira, S. Colwell, J. Turner, H. Liu, R. Masson, et al., 2009: Chapter 5: The Poles in State of the Climate in 2008, Bull. Amer. Meteor. Soc., 90(8), S1-196.
- Barreira, S. and T. Scambos, 2009: Arctic sea ice spatial behaviour and climate, CONGREMET X-CLIMET XIII, ISBN: 978-987-22411-1-7, 12 p.

Barreira, S. y R. Compagnucci, 2009: Hielo marino antártico en invierno y primavera y la circulación del hemisferio sur, CONGREMET X-CLIMET XIII, ISBN: 978-987-22411-1-7, 10p.

T. Scambos, S. Barreira, S. Colwell, J. Turner, R. Fogt, H. Liu, et al., 2008: Chapter 5: The Poles in the State of the Climate in 2007, Bull. Amer. Meteor. Soc., 89(7), s1-s179.

Barreira, S. and R. Compagnucci, 2007: Sea ice concentration temporal variability over the Weddell Sea and its relationship with tropical sea surface temperature, in Antarctica: A Keystone in a Changing World, edited by A. K. Cooper and C. R. Raymond et al, The National Academics Press; USGS Open-File Report 2007-1047, doi:10.3133/of2007-1047.srp029. ISSN: 0196-1497. ISBN-13 (DVD-ROM): 978-1-411-31788-8.

T. Scambos, N. Adams, S. Barreira, et. al H. Bromwich, K. Jezek, et al., 2007: Chapter 5: The Poles report of the State of the Climate in 2006, Bull. Amer. Meteor. Soc., 88(6), s1-s135.