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Field of Expertise: Water cycle, climate variability and change, impacts of climate and water cycle variability

Educational background:

Ph.D. Meteorology. University of Paris VI, France, 1997.

Professional experience:

Appointments:

- Associate Program Manager. NOAA's Climate Program Office, 2006-present.
- Assistant Research Scientist. ESSIC, University of Maryland, College Park, 2006-present.
- Research Scientist. National Agency for New Technology, Energy and Environment (ENEA), Italy, 1996-present.

Professional/Service Activities:

- Expert and Governative Reviewer of IPCC Reports (Assessment and Technical).
- Peer Reviewer of manuscripts for major scientific journals.
- Convener at major international scientific meetings.

Main research activities:

- Water cycle variability and change in the Mediterranean region.
- ENSO teleconnections to Europe and Southwest Central Asia.
- Global water cycle variability and teleconnections.

Selected list of relevant publications:

Mariotti A. et al., 2008: Mediterranean water cycle changes: transition to drier 21st century conditions in observations and CMIP3 simulations. *Envir. Res. Lett.*, in press.

Zeng, N., J. Yoon, J. Marengo, A. Subramaniam, C. Nobre, A. Mariotti, J. D. Neelin, 2008: Causes and Impact of the 2005 Amazon drought. *Environ. Res. Lett.*, 3, 014002, doi:10.1088/1748-9326/3/1/014002.

Zeng N., Yoon J.-H., Mariotti A., S. Swenson, 2008: Long-term soil moisture variability from a new P-E water budget method. *J. Climate*, 15, 248-265.

Mariotti A., 2007: How Enso Impacts Precipitation In Southwest Central Asia, *Geophys. Res. Lett.*, 34, L16706, Doi:101029/2007gl030078.

Mariotti A. and Arkin, P., 2006: The North Atlantic Oscillation And Oceanic Precipitation Variability. *Climate Dynamics*, Volume 28 (1): 35-51. DOI: 10.1007/S00382-006-0170-4.

- Trigo R. and 22 co-authors (including Mariotti A.), 2006: Relations between variability in the Mediterranean region and Mid-latitude variability. In: *The Mediterranean Climate: an overview of the main characteristics and issues*, Eds. Lionello, P., Malanotte-Rizzoli, P., and Boscolo, R., Elsevier, Amsterdam, the Netherlands.
- Alpert P. And 12 Co-Authors (Including Mariotti A.), 2006: Relations Between Climate Variability In The Mediterranean Region And The Tropics: ENSO, South Asian And African Monsoons, Hurricanes And Saharan Dust. In: *The Mediterranean Climate: An Overview Of The Main Characteristics And Issues*, Eds. Lionello, P., Malanotte-Rizzoli, P., And Boscolo, R., Elsevier, Amsterdam, The Netherlands.
- Luterbacher J. And 48 Coauthors (Including Mariotti A.), 2006: Mediterranean Climate Variability Over The Last Centuries: A Review. In: *The Mediterranean Climate: An Overview Of The Main Characteristics And Issues*, Eds. Lionello, P., Malanotte-Rizzoli, P., And Boscolo, R., Elsevier, Amsterdam, The Netherlands, 27-148.
- Mariotti A., Ballabrera-Poy J., Zeng N., 2005: Tropical Influence On Euro-Asian Autumn Rainfall. *Climate Dynamics*, 24 (5) 10.1007/S00382-004-0498-6: 511-521.
- Zeng N., Mariotti A., Wetzel P., 2005: Terrestrial Mechanisms Of Interannual CO2 Variability. *Global. Biogeochem. Cycles*, 19, GB1016, Doi:10.1029/2004GB002273.
- Struglia MV., Mariotti A., Filograsso A., 2004: River discharge into the Mediterranean Sea: climatology and aspects of the observed variability. *Journal of Climate*, 17 (24): 4740-4751.
- Mariotti A., Zeng N., Lau K.-M., 2002: Euro-Mediterranean Rainfall And ENSO - A Seasonally Varying Relationship. *Geophysical Research Letters*, 29 (12) 10.1029/2001GL014248.
- Mariotti A., Struglia MV., Zeng N., Lau K.-M., 2002: The Hydrological Cycle In The Mediterranean Region And Implications For The Water Budget Of The Mediterranean Sea. *Journal Of Climate*, 15 (13): 1674-1690.
- Mariotti A. et al., 2000: The hydrological cycle in the Mediterranean region: an intercomparison of re-analyses and observational datasets. , *Proceedings of the IGBP Workshop 2000: Census of Italian Research Activity Consiglio Nazionale delle Ricerche - Rome*, 27-29 November 2000, Edited by R. Frassetto, IGBP National Committee CNR-ISDGM, Venice.