

Curriculum Vitae

Doron Nof

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General Information

University address: Earth, Ocean & Atmospheric Sciences
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Professional Preparation

1976 Ph.D., University Of Wisconsin-Madison. Major: Oceanography.

Professional Experience

1981–present Professor, Earth, Ocean & Atmospheric Sci, Florida State University.

Teaching

Courses Taught

Special Topics in Physical Oceanography (OCP5930)
Fluid Dynamics: Geophysical Applications (OCP5256)
Seminar (GFD6935)
Elementary Oceanography (OCE1001)
Physical Oceanography Seminar (OCP5939)
Fluid Dynamics: Geophysical Applications (OCP5253)

Doctoral Committee Chair

Behl, M., graduate. (2012).
Zharkov, V., graduate. (2008).
Sandal, C. K., graduate. (2006).

Deboer, A., graduate. (2003).
Arruda, W. Z., graduate. (2002).
Canfield, J., doctoral candidate.
Girihagama, L. N., doctoral candidate.
Sauer, J. A., doctoral candidate.
Tremaine, D. M., doctoral candidate.
Khazmutdinova, K., doctoral student.

Doctoral Committee Member

Dong, J., graduate. (2012).
Maksimova, E. V., graduate. (2012).
Bigorre, S., graduate. (2005).
Paget, A. C., doctoral candidate.

Doctoral Committee University Representative

Roberts, J. B., graduate. (2011).
Jacobsen, D. W., graduate. (2011).
Jemison, M. B., doctoral candidate.

Master's Committee Member

Hunniford, R. L., graduate. (2011).
Kowalczyk, A. J., graduate. (2009).

Research and Original Creative Work

Publications

Refereed Journal Articles

Ortiz, J. D., Nof, D., Polyak, L., St-Onge, G., Lise-Pronovost, A., Naidu, S., Darby, D., & Brachfeld, S. (2012). The Late Quaternary Flow through the Bering Strait Has Been Forced by the Southern Ocean Winds. *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 42(11), 2014-2029. doi:10.1175/JPO-D-11-0167.1

Azevedo, J. L. L., Nof, D., & Mata, M. M. (2012). Eddy-Train Encounters with a Continental Boundary: A South Atlantic Case Study. *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 42(9), 1548-1565. doi:10.1175/JPO-D-11-027.1

- Nof, D., Zharkov, V., Arruda, W., Pichevin, T., Van Gorder, S., & Paldor, N. (2012). Comments on "On the Steadiness of Separating Meandering Currents". *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 42(8), 1366-1370. doi:10.1175/JPO-D-11-0160.1
- Nof, D., Jia, Y., Chassignet, E., & Bozec, A. (2011). Fast Wind-Induced Migration of Leddies in the South China Sea. *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 41(9), 1683-1693. doi:10.1175/2011JPO4530.1
- Nof, D., Zharkov, V., Ortiz, J., Paldor, N., Arruda, W., & Chassignet, E. (2011). The arrested Agulhas retroflection. *JOURNAL OF MARINE RESEARCH*, 69(4-6), 659-691.
- Paldor, N., Dvorkin, Y., & Nof, D. (2011). Linear instability of uniform shear zonal currents on the beta-plane. *JOURNAL OF MARINE RESEARCH*, 69(4-6), 693-704.
- Nof, D., Van Gorder, S., & Yu, L. (2011). Thoughts on a variable meridional overturning cell and a variable heat-flux to the atmosphere. *GEOPHYSICAL AND ASTROPHYSICAL FLUID DYNAMICS*, 105(1), 1-22. doi:10.1080/03091929.2010.481383
- Zharkov, V., & Nof, D. (2010). Why Does the North Brazil Current Regularly Shed Rings but the Brazil Current Does Not? *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 40(2), 354-367. doi:10.1175/2009JPO4246.1
- Nof, D., & Paldor, N. (2010). The cave resonator and the Parker Turner cave collapse problem. *Safety Science*, 48, 607-614.
- Zharkov, V., Nof, D., & Weijer, W. (2010). Retroflection from a double-slanted coastline: a model for the Agulhas leakage variability. *OCEAN SCIENCE*, 6(4), 997-1011. doi:10.5194/os-6-997-2010
- Ortiz, J. D., Polyak, L., Grebmeier, J. M., Darby, D., Eberl, D. D., Naidu, S., & Nof, D. (2009). Provenance of Holocene sediment on the Chukchi-Alaskan margin based on combined diffuse spectral reflectance and quantitative X-Ray Diffraction analysis. *GLOBAL AND PLANETARY CHANGE*, 68(1-2, SI), 71-84. doi:10.1016/j.gloplacha.2009.03.020
- Sandal, C., & Nof, D. (2008). Laboratory experiments on the paleo-jamming of the Bering Strait. *DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS*, 55(9), 1105-1117. doi:10.1016/j.dsr.2008.04.005
- Sandal, C., & Nof, D. (2008). The collapse of the Bering Strait ice dam and the abrupt temperature rise in the beginning of the Holocene. *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 38(9), 1979-1991. doi:10.1175/2008JPO3877.1
- Nof, D., & Van Gorder, S. (2008). 'Explosive' meridional migration of cyclones and anticyclones. *TELLUS SERIES A-DYNAMIC METEOROLOGY AND OCEANOGRAPHY*, 60(2), 372-383. doi:10.1111/j.1600-0870.2007.00297.x

- Sandal, C., & Nof, D. (2008). A new analytical model for Heinrich events and climate instability. *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 38(2), 451-466. doi:10.1175/2007JPO3722.1
- Nof, D. (2008). Simple versus complex climate modeling. *EOS, Transactions, American Geophysical Union*, 89(52), 544.
- Zharkov, V., & Nof, D. (2008). Agulhas ring injection into the South Atlantic during glacials and interglacials. *OCEAN SCIENCE*, 4(3), 223-237.
- Zharkov, V., & Nof, D. (2008). Retroflection from slanted coastlines-circumventing the "vorticity paradox". *OCEAN SCIENCE*, 4(4), 293-306.
- Nof, D., McKeague, I., & Paldor, N. (2007). Was there ice along the shore of the Sea of Galilee during the last 12,000? - Reply to a comment by Prange et al. (2007) and a comment by Friedman (2007). *JOURNAL OF PALEOLIMNOLOGY*, 38(4), 597-600. doi:10.1007/s10933-007-9137-7
- Nof, D., Van Gorder, S., & de Boer, A. (2007). Does the Atlantic meridional overturning cell really have more than one stable steady state? *DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS*, 54(11), 2005-2021. doi:10.1016/j.dsr.2007.08.006
- Nof, D., McKeague, I., & Paldor, N. (2006). Is there a paleolimnological explanation for 'walking on water' in the Sea of Galilee? *JOURNAL OF PALEOLIMNOLOGY*, 35(3), 417-439. doi:10.1007/s10933-005-1996-1
- Huber, M., & Nof, D. (2006). The ocean circulation in the southern hemisphere and its climatic impacts in the Eocene. *PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY*, 231(1-2), 9-28. doi:10.1016/j.palaeo.2005.07.037
- De Boer, A., & Nof, D. (2005). The island wind-buoyancy connection. *TELLUS SERIES A-DYNAMIC METEOROLOGY AND OCEANOGRAPHY*, 57(5), 783-797. doi:10.1111/j.1600-0870.2005.00146.x
- Nof, D. (2005). The momentum imbalance paradox revisited. *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 35(10), 1928-1939. doi:10.1175/JPO2772.1
- De Boer, A., & Nof, D. (2005). Erratum to: The Bering Strait's grip on the northern hemisphere climate (vol 51, pg 1347, 2004). *DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS*, 52(4), 669-670. doi:10.1016/j.dsr.2004.11.004
- Arruda, W., Nof, D., & O'Brien, J. (2004). Does the Ulleung eddy owe its existence to beta and nonlinearities? *DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS*, 51(12), 2073-2090. doi:10.1016/j.dsr.2004.07.014

De Boer, A., & Nof, D. (2004). The Bering Strait is grip on the northern hemisphere climate. *DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS*, 51(10), 1347-1366. doi:10.1016/j.dsr.2004.05.003

Nof, D., Van Gorder, S., & Pichevin, T. (2004). A different outflow length scale? *JOURNAL OF PHYSICAL OCEANOGRAPHY*, 34(4), 793-804. doi:10.1175/1520-0485(2004)034[0793:ADOLS>2.

Contracts and Grants

Contracts and Grants Funded

Nof, Doron (PI), & Chassignet, E. P. (Sep 2009–Aug 2013). *The Death of Agulhas Rings and the Emergence of a*. Funded by National Science Foundation. (0928271). Total award \$477,529.

Nof, Doron (PI). (Sep 2009–Aug 2013). *Collaborative Research: Understanding the Physics of*. Funded by National Science Foundation. (0902835). Total award \$234,849.

Nof, Doron (PI). (Aug 2008–Sep 2010). *The Role of Agulhas Rings in Climate Instability*. Funded by Los Alamos National Laboratory. (63471-001-08). Total award \$135,050.

Nof, Doron (PI). (Jul 2008–Jun 2010). *Graduate Research Assistantship Program*. Funded by Joseph W. Jones Ecological Rsch. Center. (NONE). Total award \$31,558.

Nof, Doron (PI), & Chassignet, E. P. (May 2008–Apr 2011). *Agulhas Rings Pathways and the Resulting MOC Control*. Funded by National Science Foundation. (0752225). Total award \$417,479.

Nof, Doron (PI). (Oct 2007–Sep 2011). *The Stability of Intrusion Eddies in the South Atlantic*. Funded by U. S.-Israel Binational Scienc. (2006296). Total award \$51,000.

Nof, Doron (PI). (May 2007–Jun 2009). *Will Slowing of the MOC Warm or Cool Europe?* Funded by National Aeronautics & Space A. (NNX07AL97G). Total award \$63,945.

Nof, Doron (PI). (Oct 2005–Sep 2008). *The Agulhas Current System*. Funded by National Science Foundation. (0545204). Total award \$202,638.

Nof, Doron (PI). (Sep 2005–Sep 2009). *The Bering Strait Models and Satellite Data*. Funded by National Aeronautics & Space A. (NNG05GP65H). Total award \$72,000.

Nof, Doron (PI). (Mar 2005–Feb 2009). *The Bering Strait as a Super Strait*. Funded by National Science Foundation. (ARC-0453846). Total award \$296,872.