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(a) Professional Preparation:

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|---------------------|---|-----------|
| Columbia University | Engineering/Operations Research | B.S. 1993 |
| Columbia University | Lamont-Doherty Earth Observatory, Climatology | Ph.D 2000 |
| Columbia University | Post-Doc, NOAA Climate & Global Change Fellowship | 2001 |

(b) Appointments:

2008-present: Communications Director/Scientist, Climate Central, Princeton, NJ
2009-present: Visiting Lecturer, Princeton University
2003-2008: Climate Program Manager, The Weather Channel, Atlanta, GA
2003-2008: Adjunct Faculty, Georgia Institute of Technology, Atlanta, GA
2001-2003: Research Scientist, NCAR, Boulder, CO
1994: Quantitative Analyst, Franklin Templeton Investments, NY, NY

(c) Selected Research Publications:

5 Most Closely Related to Proposed Project:

- H. Cullen: The Weather of the Future: Heat Waves, Extreme Storms and Other Scenes from a Climate Changed Planet, Harper Collins, August 2010.
- M. Barlow, M. Wheeler, B. Lyon, and H. Cullen, 2005: Modulation of Daily Precipitation Over Southwest Asia by the Madden-Julian Oscillation, Monthly Weather Review, 133, 3579-3594, <http://dx.doi.org/10.1175/MWR3026.1>.
- M.H. Glantz and H. Cullen, 2003: Zimbabwe's Food Crisis. Environment, 45(1), 9-11.
- M. Barlow, H. Cullen, B. Lyons, 2002: Drought in Central and Southwest Asia: La Nina, the warm pool, and Indian Ocean precipitation. J. Clim., 15(7): 697-700, [http://dx.doi.org/10.1175/1520-0442\(2002\)015<0697:DICASA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(2002)015<0697:DICASA>2.0.CO;2).
- M. Visbeck, J. Hurrell, L. Polvani, and H.M. Cullen, 2001: The North Atlantic Oscillation: Past, present, and future. Proc. Nat. Acad. Sci., 98: 12876-12877, <http://dx.doi.org/10.1073/pnas.231391598>

5 Other Significant Publications:

- H.M. Cullen, P.B. deMenocal, 2000: North Atlantic Influence on Tigris-Euphrates Streamflow, Int. J. Clim., 20(8): 853-863, [http://dx.doi.org/10.1002/1097-0088\(20000630\)20:8<853::AID-JOC497>3.0.CO;2-M](http://dx.doi.org/10.1002/1097-0088(20000630)20:8<853::AID-JOC497>3.0.CO;2-M).

H.M. Cullen, P.B. deMenocal, 2000: The Possible Role of Climate in the collapse of the Akkadian Empire: evidence from the deep sea. *Geology*, 28(4): 379-382, [http://dx.doi.org/10.1130/0091-7613\(2000\)28<379:CCATCO>2.0.CO;2](http://dx.doi.org/10.1130/0091-7613(2000)28<379:CCATCO>2.0.CO;2)

H.M. Cullen, R.D. D'Arrigo, E.R. Cook and M.E. Mann, 2000: Multiproxy Reconstructions of the North Atlantic Oscillation, *Paleoceanography*, 16(1): 27-39, <http://dx.doi.org/10.1029/1999PA000434>.

M. Visbeck, H. Cullen, G. Krahnemann, and N. Naik. 1998. An ocean model's response to North Atlantic Oscillation-like wind forcing, *Geophys. Res. Letters*, 25(24): 4521-4525, <http://dx.doi.org/10.1029/1998GL900162>

G. Bond, W. Showers, M. Cheseby, R. Lotti, P. Almasi, P. deMenocal, P. Priore, H. Cullen, I. Hajdas, G. Bonani. 1997. A pervasive millennial-scale cycle in North Atlantic Holocene and glacial climates, *Science*, 278: 1257-1266, <http://dx.doi.org/10.1126/science.278.5341.1257>.

(d) Synergistic Activities:

- Developed Princeton University class called “Communicating Climate Change”
- Published educational booklet with Sally Ride Science for use in classroom titled “20 Frequently Asked Questions about Climate Change”
- Board Member for: NOAA Science Advisory; Mother Nature Network Science Advisory; AMS Board on Outreach and Precollege Education (BOPE); Center for Research on Environmental Decision-making (CRED) Science Advisory Board

(e) Collaborators (past 48 months):

Derek Arndt, (NCDC); Phil Arkin, (CICS-MD); Otis Brown, (CICS-NC); David Easterling, (National Climatic Data Center --NCDC); Sara Espinoza, (National Environmental Education Foundation--NEEF); Karen Flammer, (Sally Ride Science); Jim Gandy, (WLTX Columbia, SC); Wayne Higgins, (Climate Prediction Center); Anthony Leiserowitz, (Yale University); Tim Liotta, (The Weather Channel); Edward Maibach, (George Mason University); Tom Peterson, (NCDC); Tam O'Shaughnessy, (Sally Ride Science); Kathy Rowan, (George Mason); Howard Sappington, (The Weather Channel); Deb Sliter, (NEEF); Joe Witte, (George Mason University)

Graduate and Postdoctoral Advisors

Peter deMenocal, LDEO, Columbia University (graduate)

Martin Visbeck, LDEO, Columbia University (graduate)

Mark Cane, LDEO, Columbia University (graduate)

Antonio Divino Moura, IRI, Columbia University (post-doc)