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Woods Hole Research Center
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Education

M.A. - Dartmouth College

1983, Earth Sciences

B.A. - Bates College

1970, History

Professional Experience

- **1992 - present:** Senior Research Associate, Woods Hole Research Center.
1987 - 1992: Research Associate, Woods Hole Research Center.
- **1984 - 1987:** Research Associate, The Ecosystems Center, Marine Biological Laboratory.
1982 - 1984: Research Assistant, The Ecosystems Center, Marine Biological Laboratory.
- **1980-1982:** Research & Teaching Assistant, Dartmouth College.
- **1980:** Laboratory Asst., Asst. Geologist, FM Beck Inc, Yarmouth, Maine.
- **1979:** Chiasma Consultants, South Portland, Maine.

Research Interests

Remote Sensing of land and water
Land Cover and Land use Change, Land use history

Selected Publications

Nepstad, D.C., C.R. de Carvalho, E. A. Davidson, P. H. Jipp, P. A. Lefebvre, G. H. Negreiros, E. A. Da Silva, T. A. Stone, S. E. Trumbore, & S. Viera, 1994. The role of deep roots in the hydrological & carbon cycles of Amazonian forest & pastures. *Nature*. 372: 666-668.

Stone, T.A & Paul Lefebvre, 1998. Using Multi-Temporal Satellite Data to Evaluate Selective Logging In Para, Brazil. *Intl. Journal of Remote Sensing*. 19(13):2517-2526.

Stone, T. A., 1998. The Land Cover and Land Use of Cape Cod, 1951 to 1990. *Environment Cape Cod* 1(4): 35-49.

Stone, T.A and Paul Lefebvre, 1998. Using Multi-Temporal Satellite Data to Evaluate Selective Logging In Para, Brazil. *Intl. Journal of Remote Sensing*. 19(13): 2517-2526.

Stone, T. A., 1999. Losing Cape Cod, A 36" x 36", color poster map. 70,000 copies printed.

Stone, T. A., R. A. Houghton and P. Schlesinger, 2000. A Digital Land Cover Map of the Former Soviet Union Based Upon a Time Series of 15 km Resolution NOAA AVHRR Data. In *Disturbance in Boreal Forest Ecosystems: Human Impacts and Natural Processes*, USDA Gen. Tech Report NC-209.

Stone, T. A., 2000. A Changing Landscape: *GeoWorld*. 13(2): 38-40.

Schlesinger, P and T. A. Stone, 2001. Forest and Landcover Data of Russia and the Former Soviet Union. (Data CD-Rom), The Woods Hole Research Center, Woods Hole, Mass.

Vieira, I.C., A. S. de Almeida, E. A. Davidson, T.A. Stone, C. J. R. de Carvalho, and J. B. Guerrero, 2003. Classifying Successional Forests Using Landsat Spectral Properties and Ecological Characteristics in Eastern Amazônia, *Remote Sensing of Environment* 87(4): 470-481

C. Salimon R.L. Victoria, I. F. Brown, T. A. Stone, and E. Davidson, 2003. Mudança De Cobertura Da Terra E Fluxo De Co2 Do Solo Para Atmosfera Na Amazônia Sulocidental. *Proceedings of the Xth Meeting of the Brazilian Remote Sensing Society*.

de Almeida, A. S., I C G Vieira, T.A. Stone & E.A. Davidson, 2004. Análise Da Dinâmica De Paisagem Em Florestas Primárias E Secundárias Utilizando Imagens Landsat - 1995 E 1999, No Leste Do Estado Do Pará. VI Seminário de Atualização em Sensoriamento Remoto e Sistemas de Informações Geográficas aplicados à Engenharia Florestal

Crawford, R.E., and T.A. Stone. 2005. Assessing Relative Eutrophication of Coastal Embayments with Calibrated Aerial Video Imagery. Final Report to NOAA/UNH Cooperative Institute for Coastal and Environmental Technology (CICEET), UNH. 78 p.

Stone, T. A., E. Braun, G. Fiske & C. Jantz, 2006. Critical Mass: Land Use Change in Southeastern Massachusetts, 2-sided educational poster, 55,000 printed

Houghton, R A, D. Butman, A. G. Bunn, O. Krankina, P. Schlesinger, & T.A. Stone, 2007. Mapping Russian forest biomass with data from satellites & forest inventories. *Environ. Res. Letters* 2 045032

Davidson, E. A., G. P. Asner, T. A. Stone, C. Neill, & R. D. O. Figueiredo, 2008. Objective Indicators of Pasture Degradation from Spectral Mixture Analysis of Landsat Imagery, *J. Geophysical Res.*, doi:10.1029/2007JG000622.

Stone, T.A. 2008. "Paving, Floods, & Forests", *Northern Woodlands Magazine*. 15(2):18-19

De Almeida, A., T. A. Stone, I.C.G. Vieira, E. A. Davidson, 2010, "Non-Frontier Deforestation in the Eastern Amazon", *Earth Interactions Journal*, 14:1-15

Awards

- Graduate Fellow, Dartmouth College 1980-1982
- Best Social Inventions '89 Award, Communications Category, Institute for Social Inventions.
- American Society of Photogrammetry & Remote Sensing, Presidential Citation, 1991.
- ERDAS Award, Second Prize, for paper "A Map of the Vegetation of South America Based on Satellite Imagery", March 1995. American Society of Photogrammetry & Remote Sensing.
- Massachusetts Executive Office of Environmental Affairs, Environmental Achievement Award for atlas "Losing Cape Cod", Oct. 2001 including a citation from the Senate of the Commonwealth of Massachusetts.

PANELS & COMMITTEES

- Member, Landsat 7 Science Working Group, NASA HQ, 1992-1993.
- Member, Association for the Preservation of Cape Cod, EPA Technical Assistance Grant Steering Committee, 1996-1998.
- Member, Landsat Science Team Review Panel, NASA HQ, April 1996.
- The Global Forest Watch Steering Committee, World Resources Inst., March 2000-2002
- Woods Hole Diversity Advisory Committee, 2007- 2008
- WHOI Sea Grant, Marine Outreach Guidance Group (MOOG), 2005 - 2008.