

Meghna Tare

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Education

- MS Environmental Studies, San Jose State University, CA
- MS Bio-inorganic and Analytical Chemistry, University of San Francisco, CA
- BS Environmental Science, University of Nagpur, India

Professional and Educational Experience

Masters Thesis at San Jose State University (in collaboration with researchers at Stanford Univ)

Duration : Jul 2004 – present

Title : Estimating the impact of 21st century climate change on wildfire risk potential using the Keetch-Byram Drought Index (KBDI)

Under current climate change projections, wildfire risk potential is expected to increase significantly. When studying the role of climate on the area of forest burned, several meteorological parameters like temperature, precipitation, humidity, and drought indexes such as Keetch/Byram (KBDI) have been used. How the forests are drying as a result of drought and increasing temperatures and how the fire risk is likely to change over the 21st century was studied using the Keetch and Byram's Drought Index (KBDI). *Publication in Progress*

Advisor: Dr. Stephen Schneider, Department of Biological Sciences, Stanford University.

Union of Concerned Scientist, Berkeley, CA

Duration : Jul 2005 – Sep 2005

Position : Consultant

Acted as a Consultant and contributed to the UCS database on the projected impacts of climate change in California. Conducted research to estimate the impact of climate change on wildfire risk potential for Sequoia and Kings Canyon National Park., using the Keetch-Byram Drought Index (KBDI). Submitted a detailed report on the findings of the research.

Center for Environmental Science and Policy

Stanford Institute for International Studies, Stanford University

Duration : Jun 2005 – Jul 2005

Position : Research Assistant

- As a research assistant, I created global long-term ecological databases on migration phenology, egg-laying, and range distributions to assess ecological change over long time periods (century-scale).
- Literature search for recent articles on global phenology change.

Conservation Science Institute, Santa Cruz, CA

Duration : Dec 2004 – present

Position : Fellow

- Write articles on Global warming/global climate change for the monthly newsletter <http://conservationinstitute.org/csireport.htm>

SOMA Corporation, Emeryville, CA

Duration : Summer 2004

Position : Intern

- Performed Ecological and Health Risk Assessment for Cancer and non- Cancer risks.
- Gained experience with the Johnson and Ettinger Model and ProUCL.

Teaching Experience

- TA for undergraduate Chemistry class at University of San Francisco (Jan 2000-Dec 2001)
- TA for undergraduate (B.E) students for the Dept. of Surface Coatings and Paint at Laximinarayan Institute of Technology (June-Dec 1999)

Presentations

- Ecosystem-based fisheries management in a changing climate, AAAS Meeting, Washington, DC, 20 February 2005 (Authors: Thomas A. Okey, Alistair J. Hobday, Keith Sainsbury, Meghna Tare, Robert Y. Georgec)
- Contributed to the presentation titled “Probabilistic Assessment of Dangerous Climate Change” by Dr. Stephen Schneider at the 2nd Annual Climate Change Research Conference and First Scientific Conference, West Coast Governors’ Global Warming Initiative, Sacramento, CA (Sep 2005)

Professional Memberships

Union of Concerned Scientists, Berkeley, CA

Conferences/Workshops Attended

- Fire History and Climate Synthesis in Western North America, April 30-May 3, 2005, Northern Arizona University, Flagstaff, AZ
- Second Annual Climate Change Research Conference, and First Scientific Conference, West Coast Governor's Global Warming Initiative, September 14-16, 2005, Sacramento, CA

Courses studied

Environmental Impact Assessment, Human Ecology, Environmental Chemistry, Environmental Economics and Policies, US Environmental Thoughts, Environmental Law, Resource analysis, Research Methods, Global Climate Change, Introduction to GIS, Energy Policy Analysis

References

1. Dr. Stephen Schneider
Department of Biological Sciences and Center for Environmental Science and Policy
Stanford University
Web site: <http://stephenschneider.stanford.edu>
Email: shs@stanford.edu Phone: (650) 725- 9978
2. Katherine Kao Cushing
Assistant Professor, San Jose State University
Email: kcushing@email.sjsu.edu Phone: (408)924-6348
3. Nathan L. Stephenson
Research Ecologist, USGS Sequoia and Kings Canyon Field Station
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