

The Laboratory for Global Health Observation



The University of Alabama - Birmingham

Laboratory for Global Health Observation (LGHO)

- Opened September 2007
- Directed by Sarah Parcak, PhD (Dept. Anthropology)
- Result of partnerships with 7 UAB Schools (Social and Behavioral Sciences, Public Health, Nursing, Health Professions, Dentistry, Medicine, Natural Sciences and Mathematics, Engineering) and Office of VP for Research
- Three year commitment to infrastructure support from the Deans of Social and Behavioral Sciences (Dr. Linney) and Public Health (Dr. Michael) Fall 08.

LGHO Students 2008

15 Total Students: 12 Graduate and 3 undergrad

6 Public Health (grad)

5 Social and Behavior Sciences (1 undergrad)

2 Undeclared grad

1 Natural Sciences & Mathematics (undergrad)

1 Engineering (undergrad)

LGHO Students Fall 2009

19 students

Undergrad- Anthropology 2

Graduate – various programs 8

School of Public Health

Masters 4

PhD 5

Dissertation/Thesis Research:

1. Wigdan Omer: Detecting Archaeological Sites in the Sudan (in progress)
2. Steve Padgett-Vasquez: Cahaba River Watershed (in progress)

Fall 2008 - Spring 2009 LGHO Students

Meghan Tipre (India): Doctoral student, Epidemiology

Mary Warren: Master's student, Anthropology

Wigdan Omer (Sudan): Master's student, Anthropology

Joshua Harden: Undergraduate, Anthropology

Steve Padgett-Vasquez (Honduras): Master's student, Biology

Emmanuel Makasa, MD (Zambia): Master's student, International Health and Global Studies

John Marron Jr: Graduate student, Anthropology

Sarah Hemmings (Canada): Master's student, Epidemiology

Kartikey Acharya, MD (India): School of Medicine

Ret. Lt. Col. Marilyn McAllister: Master's student, Anthropology

Kyle Crider: PhD student, Engineering

Charles Callans: Master's student, Environmental health science

Allen Hyde: MA, History & sociology (double-major)

David Gathings: MA, Archaeology

Fall 2008 - Spring 2009

1. Meghan Tipre: "Comparison of Land Cover Changes between years 1989 and 2001 in Karachi Pakistan, using Unsupervised Classification"
2. Mary Warren: "Archaeological Surveys in the Chilapa-Zitlala Area of Guerrero, México"
3. Allen Hyde: "Suburbanization in Metropolitan Birmingham, Alabama"
4. David Gathings: Directed research; offered position in Dr. Robert Novak's lab as a direct result of training in the LGHO.
5. Joshua Harden: "Using Remote Sensing to Discover Archaeological Sites in the Nile Delta"
6. Steve Padgett-Vasquez: "Land Use and Land Cover Change in Ometepe Island, Nicaragua (1978-2000) Using Multispectral Satellite Image Data and a Digital Elevation Model" 1st Place UAB Graduate Research Days 2009
7. Emmanuel Makasa, MD: "Land-use/Land-cover change detection in Solwezi, Zambia"
8. John Marron Jr: "Detection of Archaeological Sites"
9. Sarah Hemmings: "Comparison of Satellite Imagery for Detection of West Nile Virus-Breeding Habitats in Auburn, Alabama"
10. Kartikey Acharya, MD: "Lyme Disease in Dutchess County, NY"
11. Marilyn McAllister: "Detecting Archaeological Sites in North Alabama"
12. Kyle Crider: "Alabama's Endangered Cumberland Plateau: Past, Present and Future A Remote Sensing and GIS Analysis"
13. Charles Callans: "Oral Health Status Assessment Using GIS and Remote Sensing: Identifying Communities for Needs-Based Interventions in Birmingham, Alabama" UAB Health Disparities Research Symposium poster presentation