Clark Labs

a research center within the Graduate School of Geography at Clark University, located in Worcester Massachusetts
closely associated with the Graduate School of Geography and the graduate program of the Department for International Development, Community and Environment, with goals to:

1. provide access to geospatial technology to as broad a group as possible, and
2. develop geospatial tools to address the needs of effective and responsible decision making for environmental management, sustainable resource development and equitable resource allocation.
given these goals, our activities have been primarily focused on four areas:

- Software Development
- Analytical Research
- Applications Research
- Technology Transfer
Role of Academia in GIS Development

- Rapid Development of GIS
- From Mapping to Modeling
- From Academia to Commercial
Clark Labs in Africa

our activities have been primarily focused on these same four areas:

- Software Development
- Analytical Research
- Applications Research
- Technology Transfer

Clark Labs in Africa
Time Series Analysis

using Standardized Principal Components
Component 1
Component 2
Component 3
Component 4

Standardized PCA July 1981 - June 1997
1997/8 Botswana Seasonal Prediction

Predicted

Actual

Component 1
-0.8  -0.6  -0.4  -0.2  0     0.2  0.4  0.6  0.8
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97

Component 2
-1  -0.8  -0.6  -0.4  -0.2  0     0.2  0.4  0.6  0.8
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97

Component 3
-0.8  -0.6  -0.4  -0.2  0     0.2  0.4  0.6  0.8
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97

Component 4
-0.5  -0.4  -0.3  -0.2  -0.1  0     0.1  0.2  0.3  0.4
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97

Y = 0.000219 + 0.703294 * X
r = 0.7034
Climate Teleconnection Early Warning

- **ENSO**
- **AMO**
- **PDO**

Climate indices and their teleconnections across different regions.
Outreach

IDRISI Resource Centers

- Kenya
- Morocco
- Nigeria
- South Africa