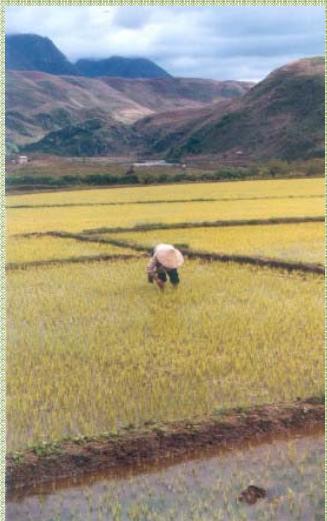


The Global Adaptation Atlas



Establishing Priorities for Research, Policy and Action on Adaptation

Ray Kopp – Senior Fellow and Director, Climate Policy Program

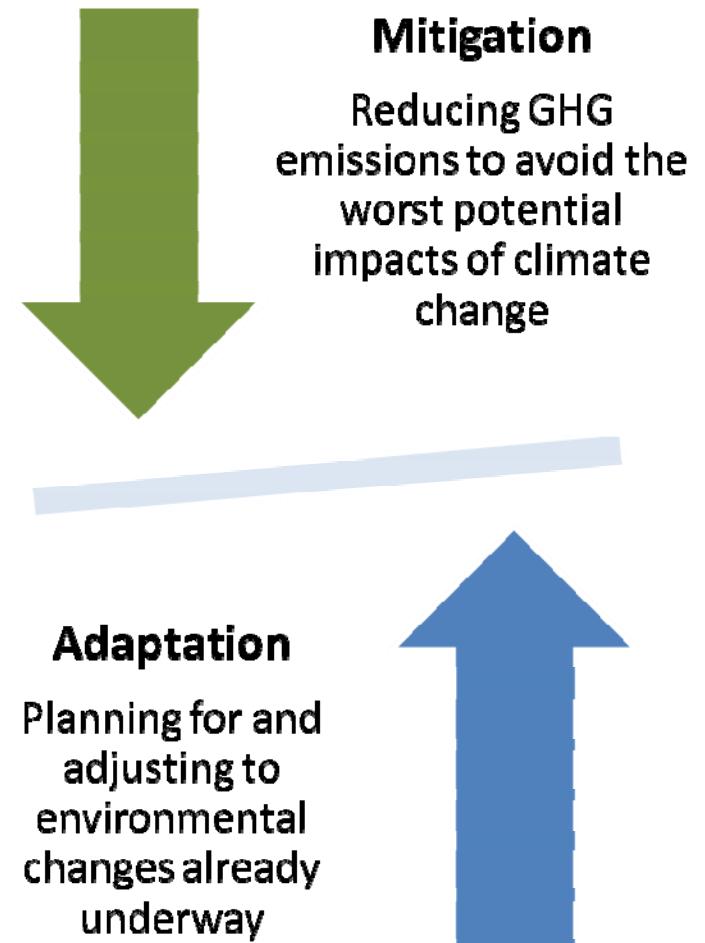
Nisha Krishnan – Project Manager, Atlas Team

ISeeT Kiosk Presentation- COP 15, Copenhagen – December 8, 2009



The Challenge of Adapting Well

- Adaptation is gaining prominence in the research, policy and development fields.
- Emissions reductions anywhere “count” everywhere, but adaptations must be locally relevant *and* broadly coordinated
 - Complementary, not competing objectives
 - Growing push to set priorities for adaptation funding



Mapping is the Missing Link

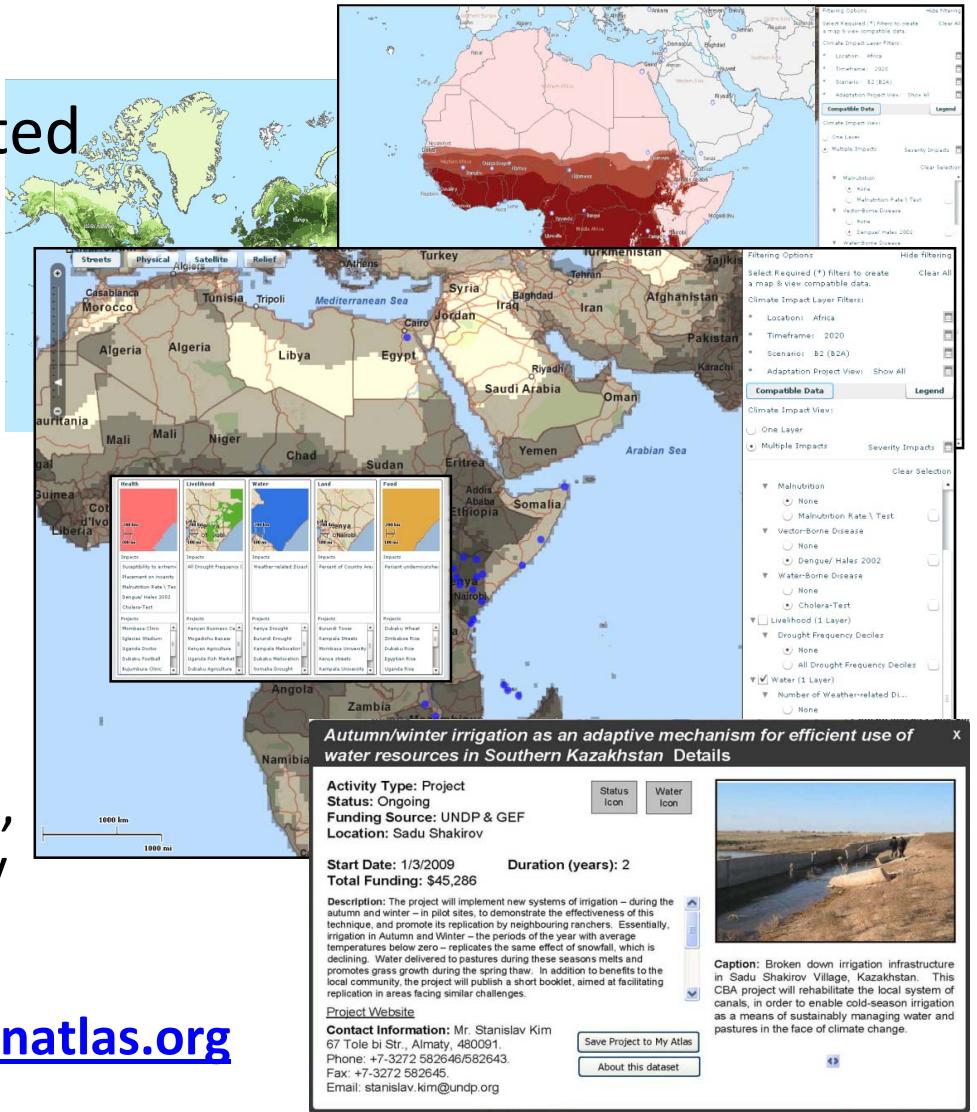
- **Geography and spatial information are common threads connecting impact science and policy**
 - Climate impacts are site and population-specific
 - Populations in greatest need are often least able to adapt
- **Need for coordination of scientific research, policy and on-the-ground activity**
 - Maps showing current and projected climate impacts and adaptation activity can help in setting strategy for interventions and investments.
 - This is the aim of the Adaptation Atlas.

What is the Adaptation Atlas?

- Web-based application enables user driven, dynamically generated maps of climate impacts and adaptation activities:

- Database of impacts from peer reviewed climate studies
- Repository of adaptation projects
- Data available for download and uploads of new data supported
- User can select different locations, timeframes, scenarios and overlay resulting data across sectors

Beta version is available at www.adaptationatlas.org



Who Will Use the Atlas and for what purpose?

Policymakers & Leaders: Visualize impacts affecting their regions, view portfolios of projects underway, and identify gaps that need to be filled

Policymakers

Ministers and Agency
Directors

Philanthropic
Foundations

Multi-lateral donors

United Nations

International climate
negotiators

Scientists: Enter new impact data, download data and develop finer-grained integrated models and new data, further multidisciplinary collaboration

Natural
Scientists

Social
Scientists

Citizens: Learn and contribute

Enable civil society leaders, advocates, corporations, and others to identify impacts, adaptation options being implemented by others in the area, & opportunities for coordination

Building Blocks

1 Consolidating science on impacts

- Identify gaps in science across disciplines, regions, scales
- Highlight areas for new integrated analysis

2 Mapping on-the-ground adaptations

- Facilitate continuous data collection on adaptation funding
- Create a comprehensive, searchable project database

3 Creating a tailored outreach vehicle

- Create key user profiles and provide recommendations
- Collect and exchange local lessons and global best practices

4 Sustaining long-term evaluation

- Develop a spatial data archive on impacts and activities
- Track changes in projected impacts & adaptations over time

Creating maps: Three mouse clicks to find data!

Filtering Options Hide Filtering ▲ ⓘ

Standard **Advanced**

Follow this wizard to view compatible data and create a map.

Select Filters Clear All

Location:
Timeframe:
Scenario:
Adaptation Project View:

Compatible Data ⓘ Legend

User can show/hide the filtering options panel. See filtering options hidden wireframe for details.

See "Filtering Options - Advanced" wireframe for details on this tab.

Initial: All fields are empty. Users click the Select Filters button to start the wizard. They cannot edit the fields below by clicking on a field.

Clear All is inactive.



No values are selected by default.

Location ⓘ x

Select Region or Country:

Global Only

Africa

- Eastern Africa
 - Burundi
 - Eritrea
 - Madagascar
 - Mayotte
 - Rwanda
 - Uganda
 - Zimbabwe
- Comoros
- Djibouti
- Ethiopia
- Kenya
- Malawi
- Mauritius
- Mozambique
- Reunion
- Seychelles
- Somalia
- United
- Zambia

Grayed out items are not available.

Middle Africa

Northern Africa

Southern Africa

Western Africa

Cancel Next >

Data is grayed out if it is not available.

Grayed out till one location is selected.

No values are selected by default.

Scenario ⓘ x

Scenario	Temperature Change °C at 2090-2099 relative to 1980-1990)	Best Estimate	Likely Range	Description
<input type="radio"/> B1	1.8	1.1-2.9		View Description
<input type="radio"/> A1T	2.4	1.4-2.8		View Description
<input type="radio"/> B2 (B2A)	2.4	1.4-3.8		View Description
<input type="radio"/> B2B	2.4	1.4-3.8		View Description
<input type="radio"/> B2C	2.4	1.4-3.8		View Description
<input type="radio"/> A1B	2.8	1.7-4.4		View Description
<input type="radio"/> A2 (A2A)	3.4	2.0-5.5		View Description
<input type="radio"/> A2B	3.4	2.0-5.5		View Description
<input type="radio"/> A2C	3.4	2.0-5.5		View Description
<input type="radio"/> A1F1	4	2.4-6.4		View Description

Cancel < Back Next >

Timeframe ⓘ x

Baseline data for:
 1960-1990

Current Data/Observations for:
 1990 to present

Projected future climate impacts in:

- 2020
- 2030
- 2050
- 2080
- 2100

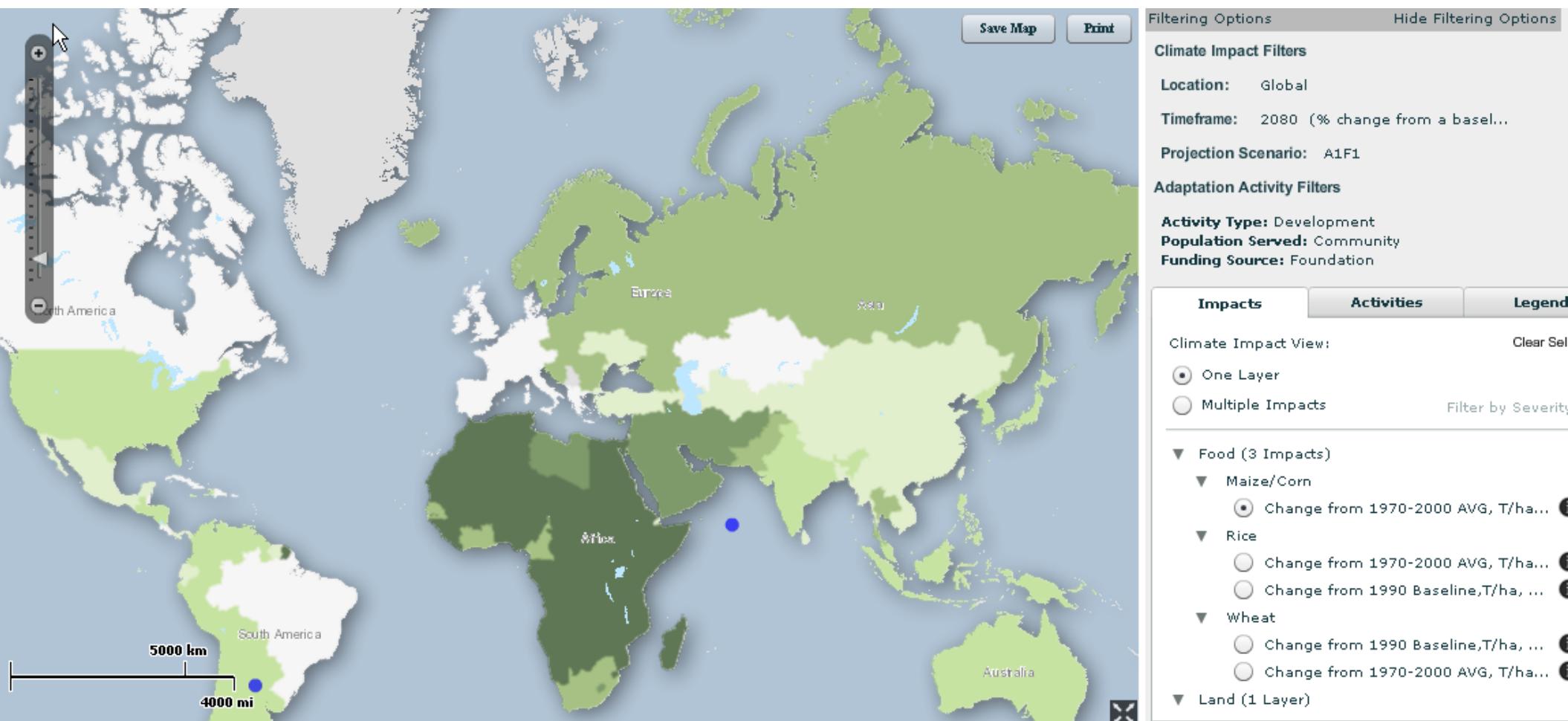
Projected impacts (% change from a baseline) in:

- 2020 (% Δ from a baseline)
- 2030 (% Δ from a baseline)
- 2050 (% Δ from a baseline)
- 2080 (% Δ from a baseline)
- 2100 (% Δ from a baseline)

Grayed out items are not available.

Cancel < Back Next >

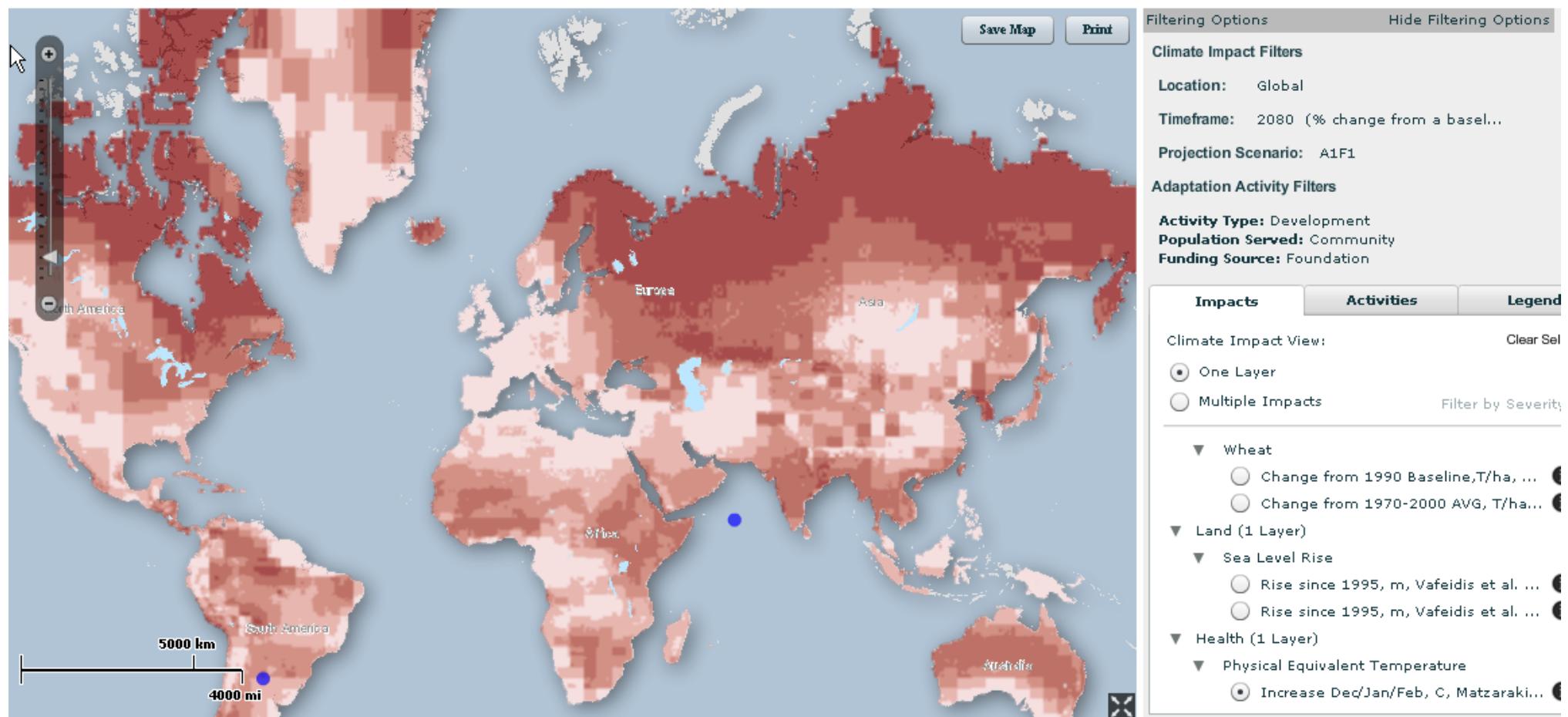
Projected Change in Maize Production by 2080



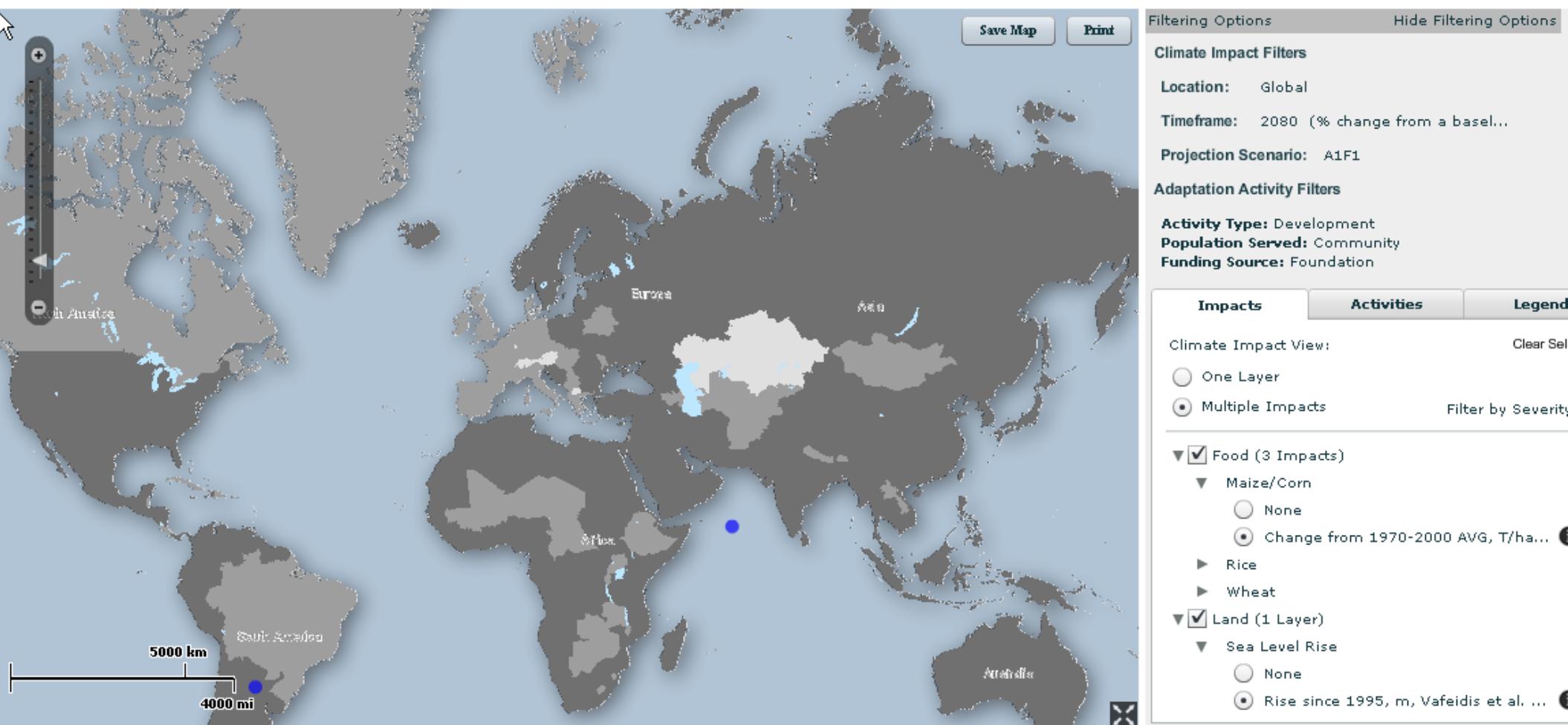
Projected Change in Sea Level Rise by 2080



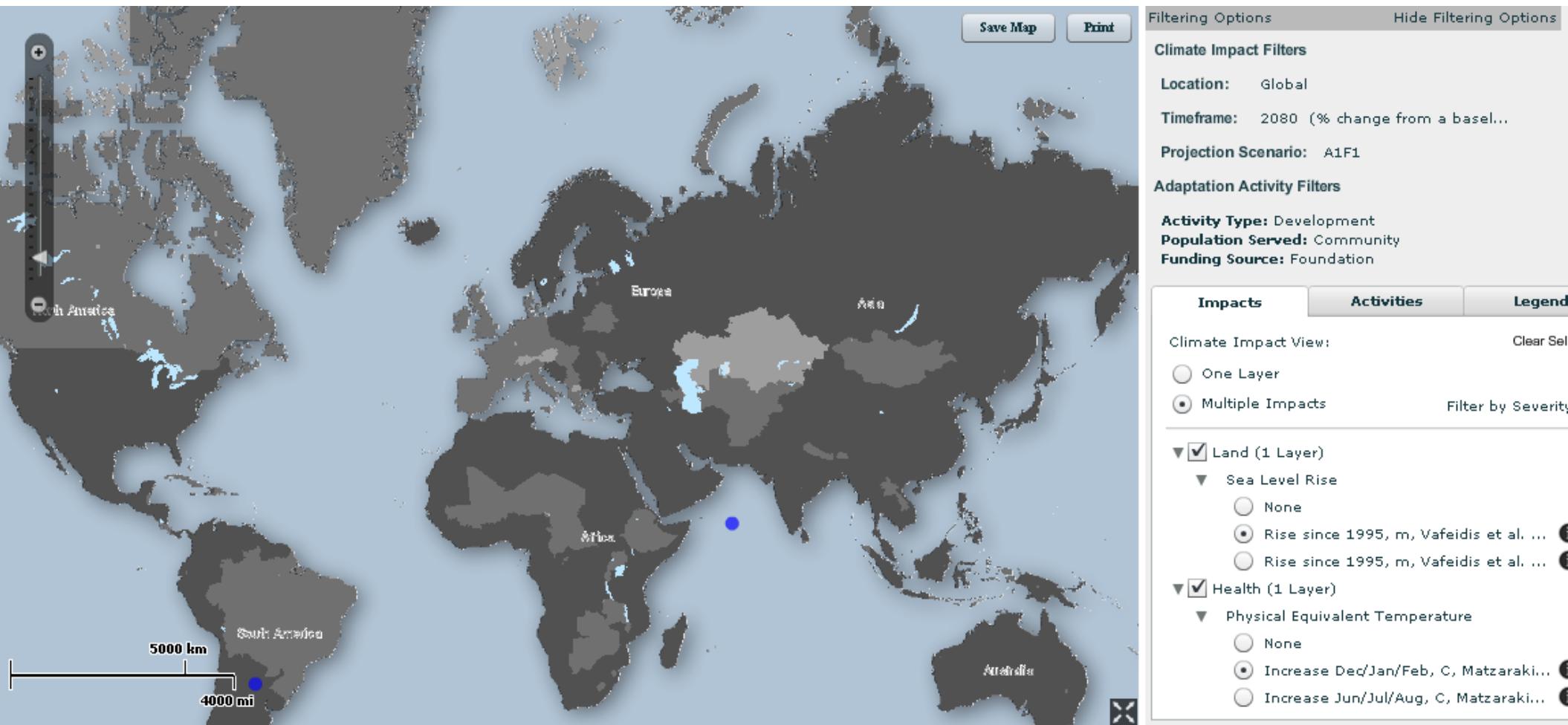
Projected Change in Physical Equivalent Temperature by 2080



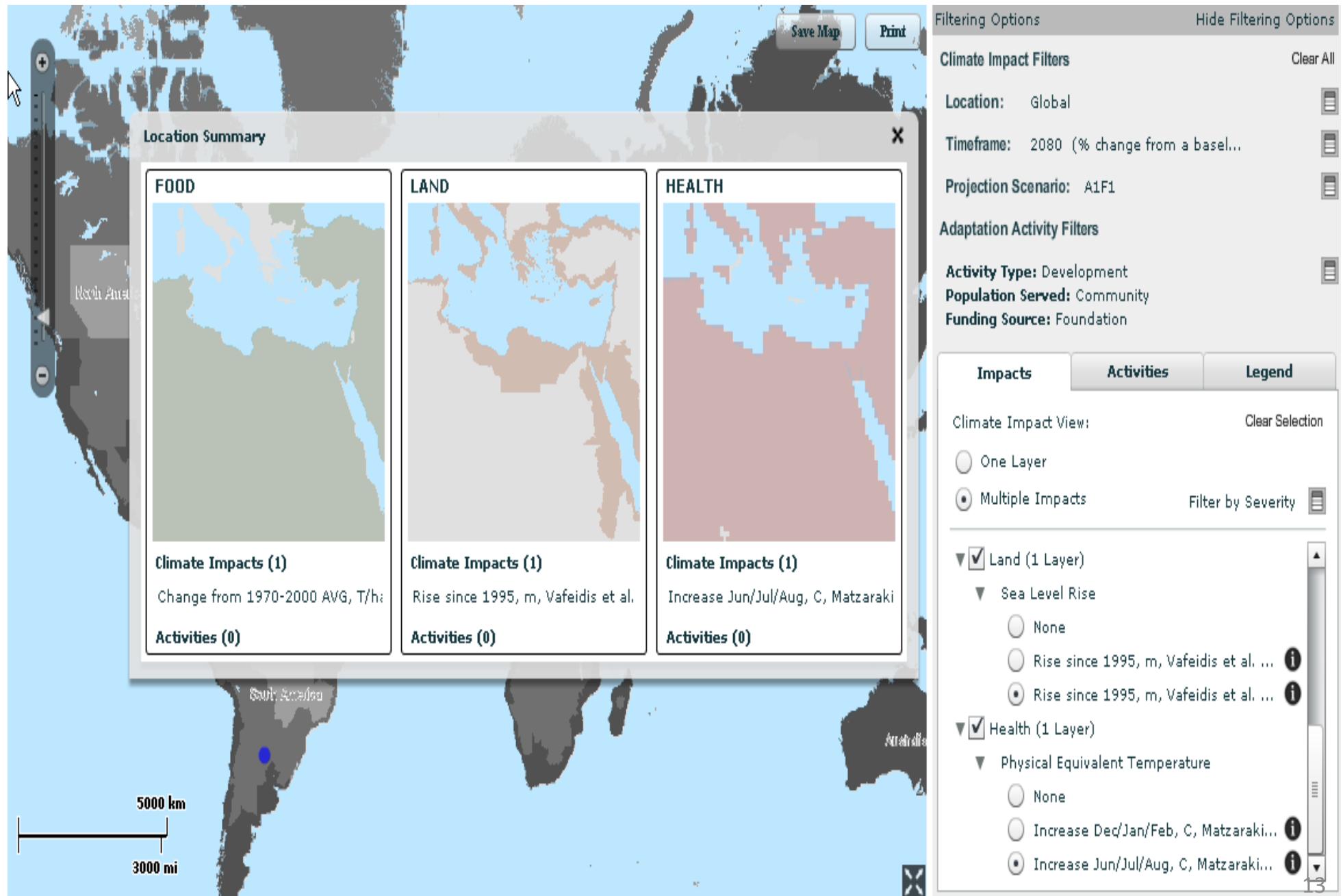
Overlay of Projected Changes in Maize and Sea Level Rise



Overlay of Projected Changes in Maize, Sea Level Rise and Physical Equivalent Temperature



Clicking on a point on the map will display a detailed breakout map



Location: Global

Timeframe: 2080 (% change from a baseline)

Projection Scenario: A1F1

Theme: Land

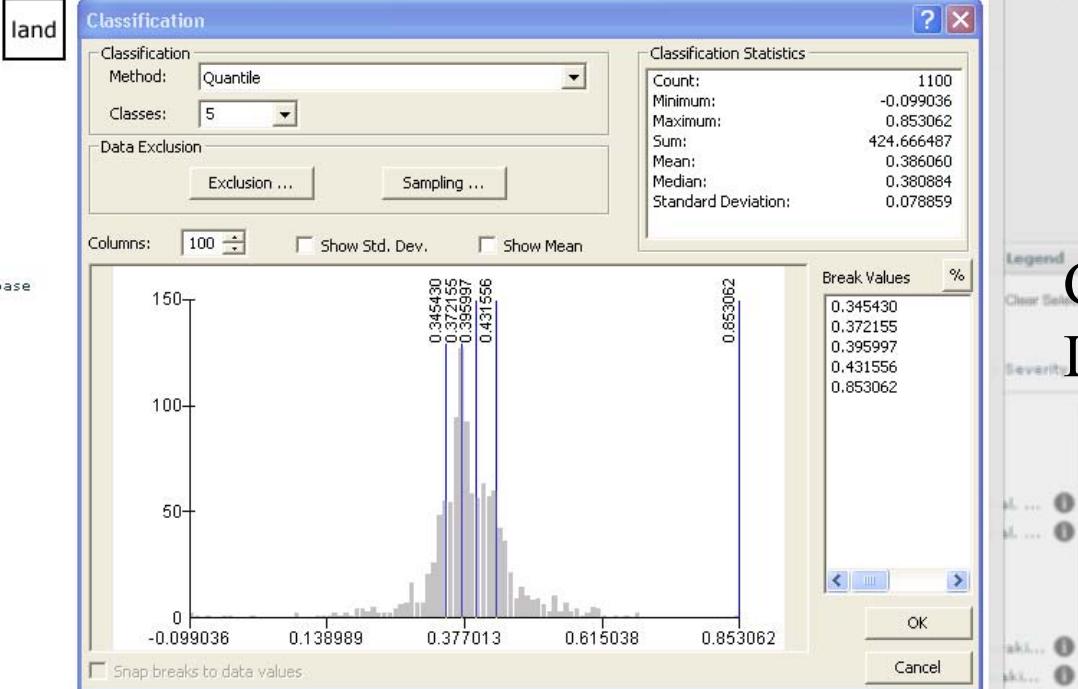
Category: [what is category?]

SubTheme: Sea Level Rise

Data Source: DINAS_COAST

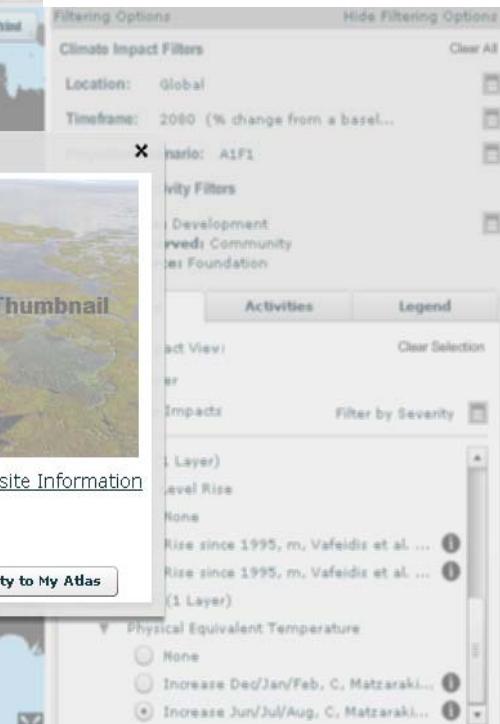
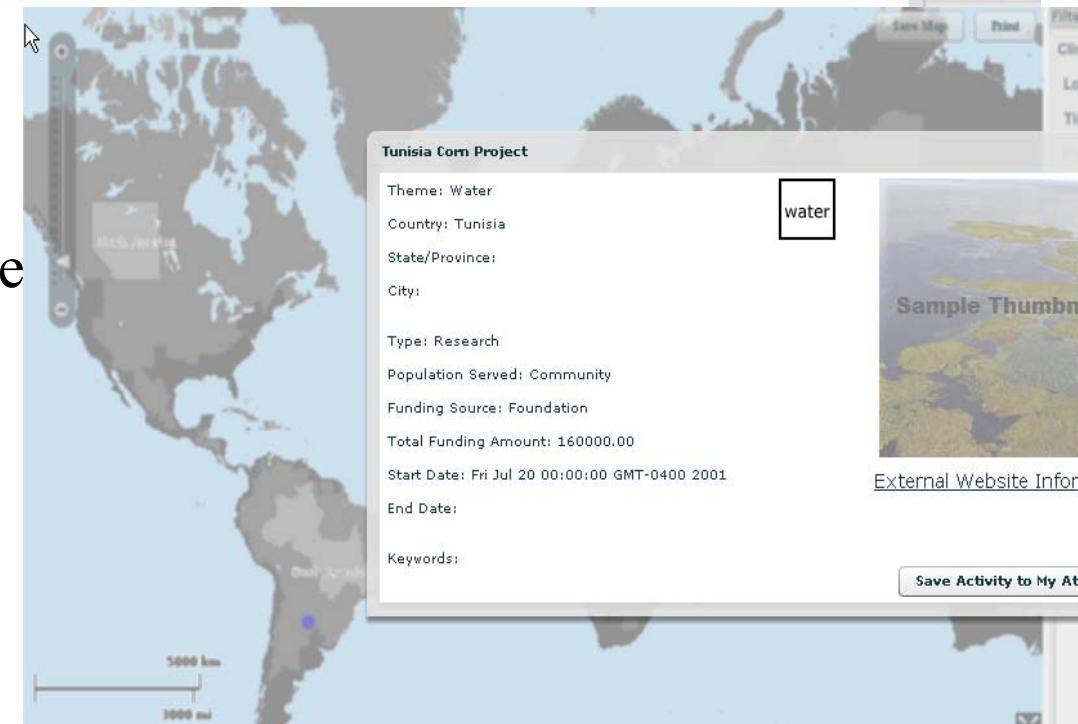
Citation: Vafeidis, A.T. "A New Global Coastal Database for Impact and Vulnerability Analysis to Sea-Level Rise." *Journal of Coastal Research* 24, 4 (2008)

Abstract:



Climate Impact Layer Detail Page

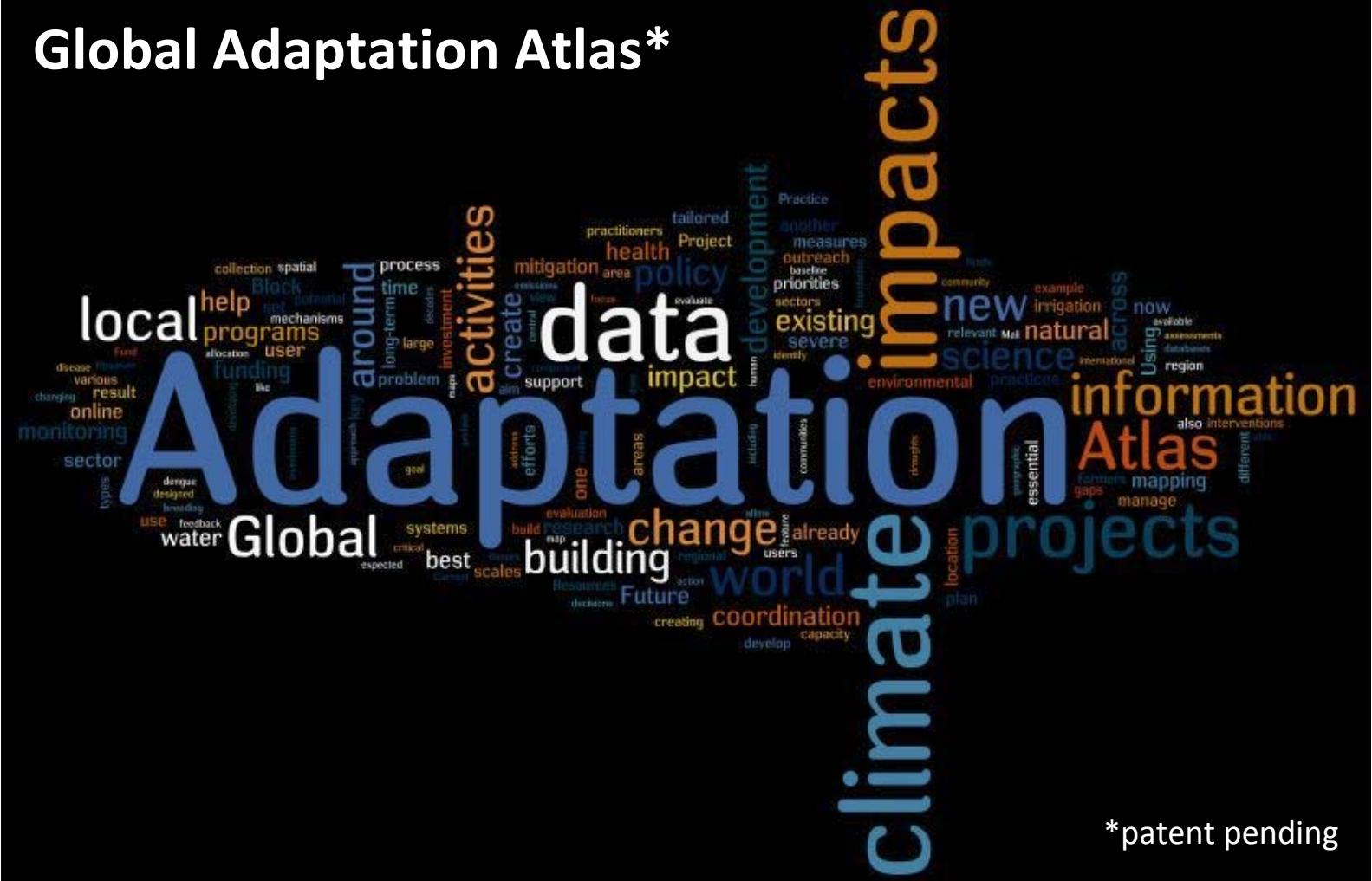
Project Detail Page



Partners

- **Advisory Board Spanning Science, Policy & Practice**
 - Climate Institute, UNF, WRI, Rockefeller, RFF, ESRI, SEI
- **Collaborative Partners**
 - UNFCCC, UNDP, WRI, College of William & Mary, UNITAR, RMSI
- **Funding Sources**
 - RFF
 - Clipore (MISTRA - Swedish Foundation for Strategic Environmental Research)
 - UN Foundation
 - Goldman Sachs (through seconding of 1 FTE for FY09)
 - ESRI (mapping software)

Global Adaptation Atlas*



*patent pending

For more on the Atlas, visit www.adaptationatlas.org or email us at info@adaptationatlas.org