



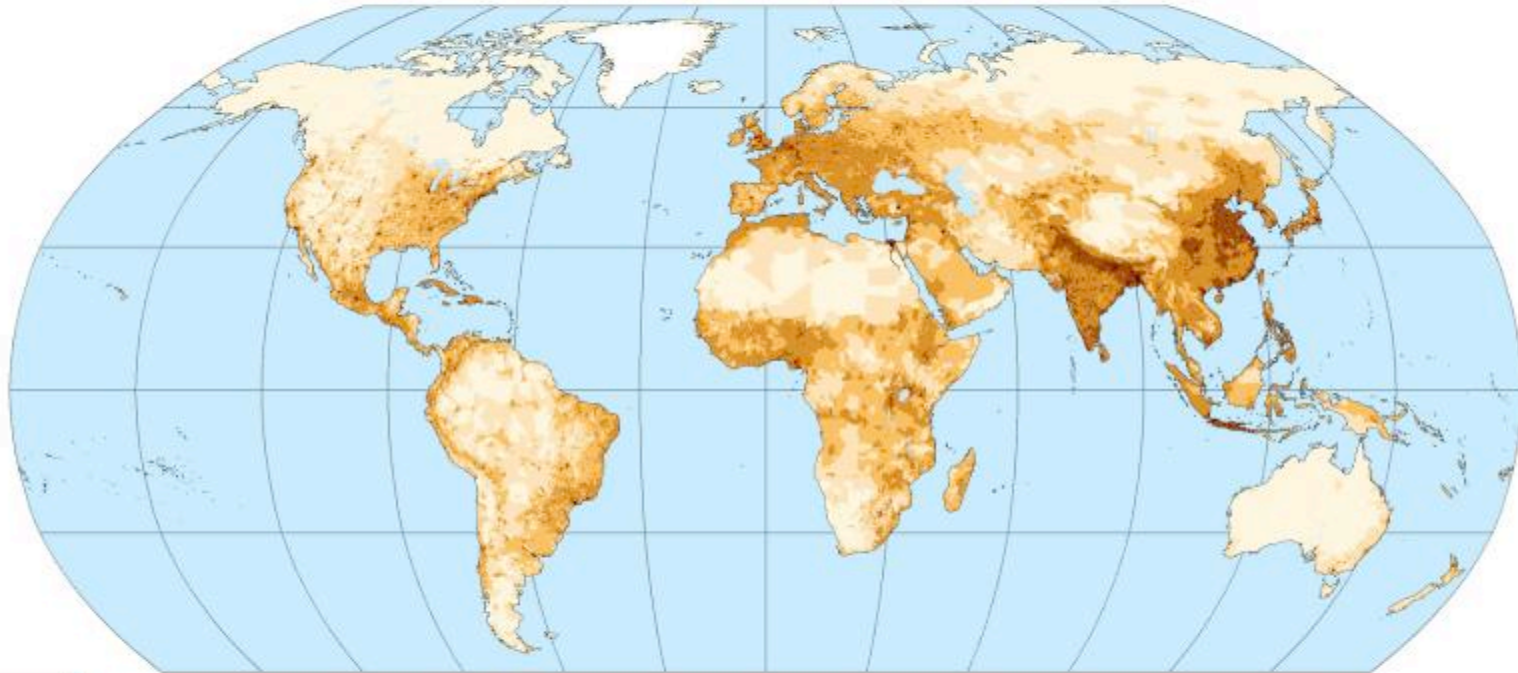
# **CIESIN's Databases for Remote Sensing Analysis**

Dr. Roberta Balstad, Director of Center for International Earth Science Information Network (CIESIN), Columbia University, New York

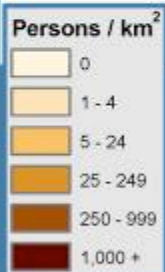
November 2, 2005

# Population Density, 2000

GPW [v3]

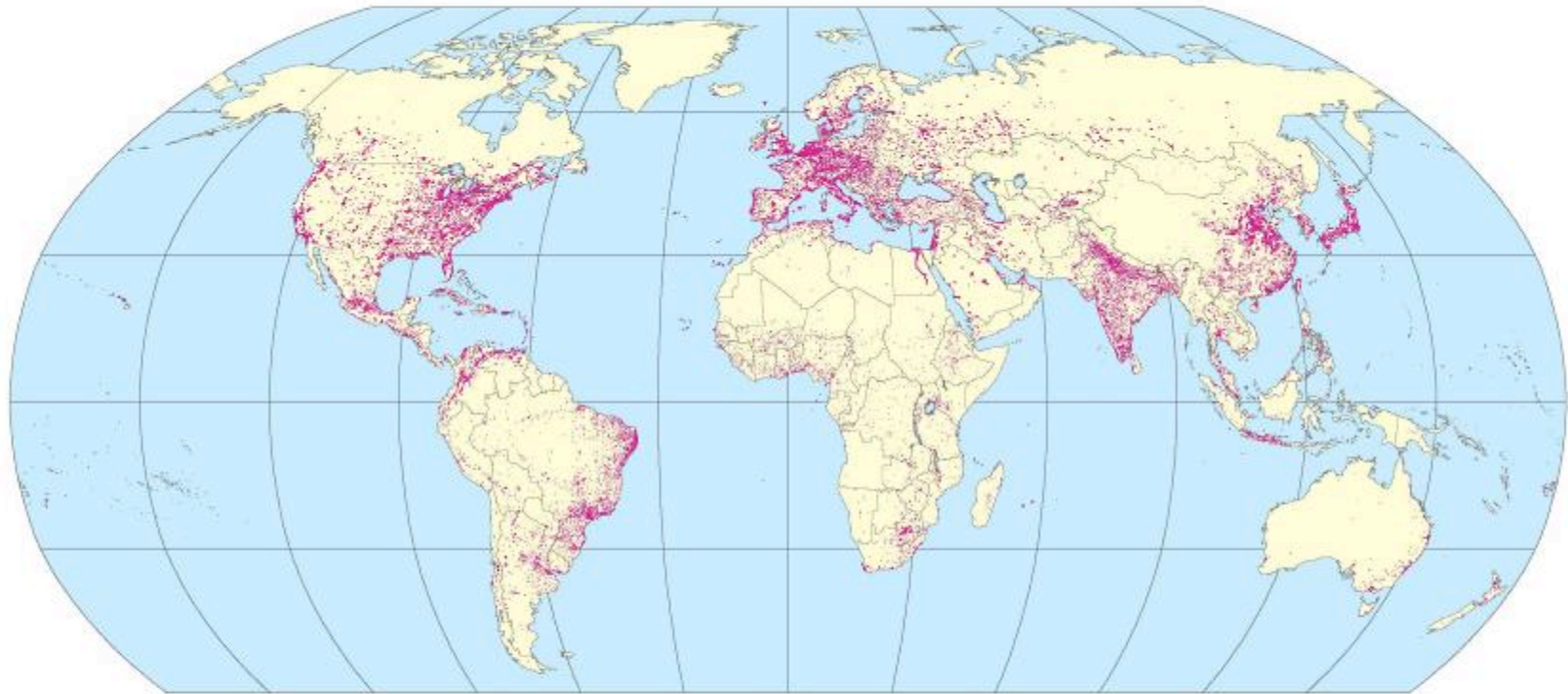


Robinson Projection





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Source: Center for International Earth Science Information Network (CIESIN),  
Columbia University, and Centro Internacional de Agricultura Tropical (CIAT),  
Gridded Population of the World (GPW), Version 3, Palisades, NY: CIESIN,  
Columbia University. Available at: <http://sedac.ciesin.columbia.edu/gpw>.

# The World: Urban Extents of Settlements greater than 5000

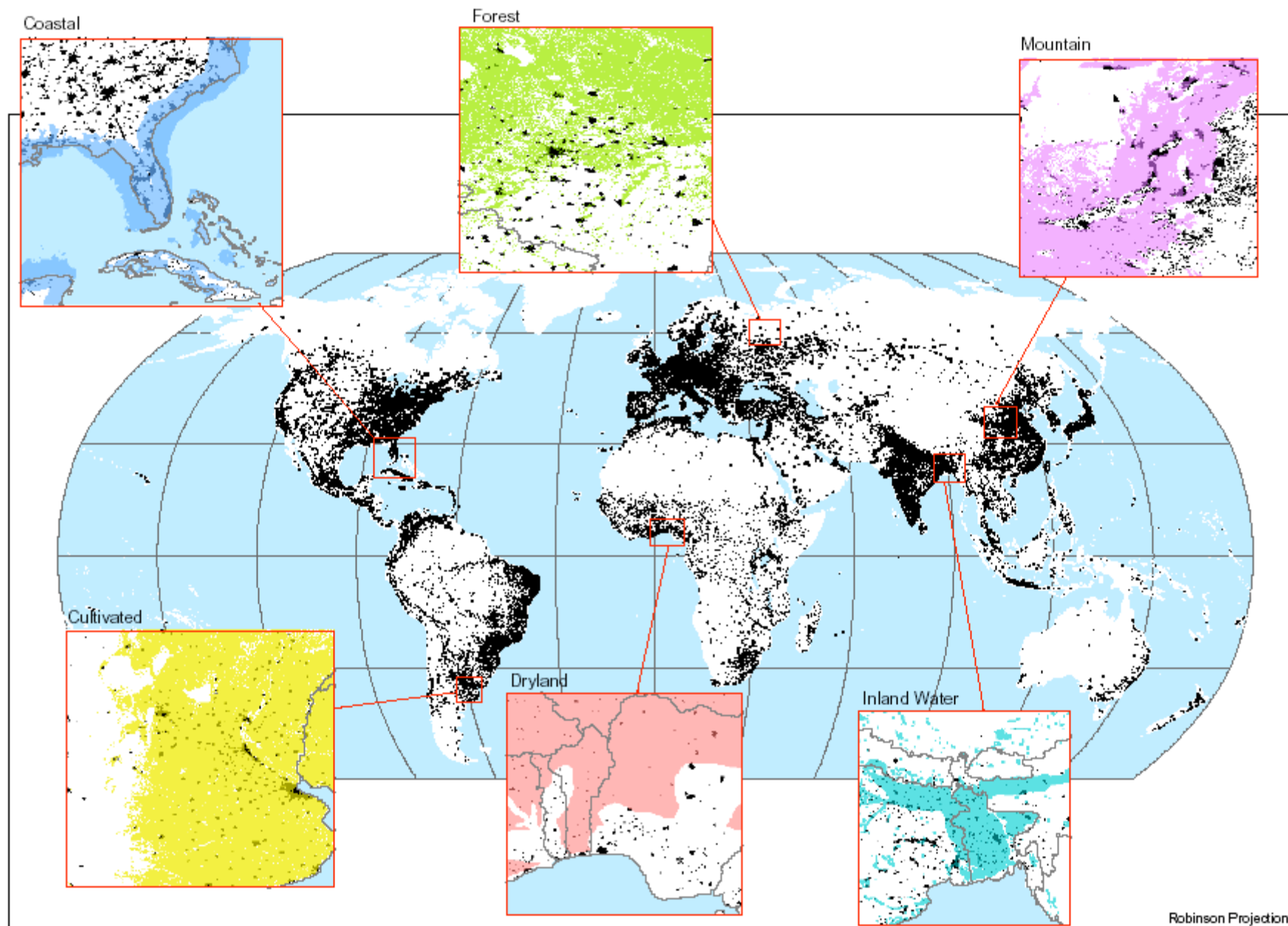


Robinson Projection

## Urban-Rural Extents

-  Urban areas
-  National Boundary





Robinson Projection

- Urban Areas (UA)
- UA within Coastal
- UA within Dryland
- UA within Cultivated
- UA within Mountain
- UA within Forest
- UA within Inland Water

## Urban Extents: Settlements Greater Than 5000 Persons

*Call-outs show urban areas overlaid by ecosystems.*

NOTE: Urban areas not drawn to scale. They are boldened here so as to be visible on a global map. Refer to Table 22.4 for estimates of urban land area.

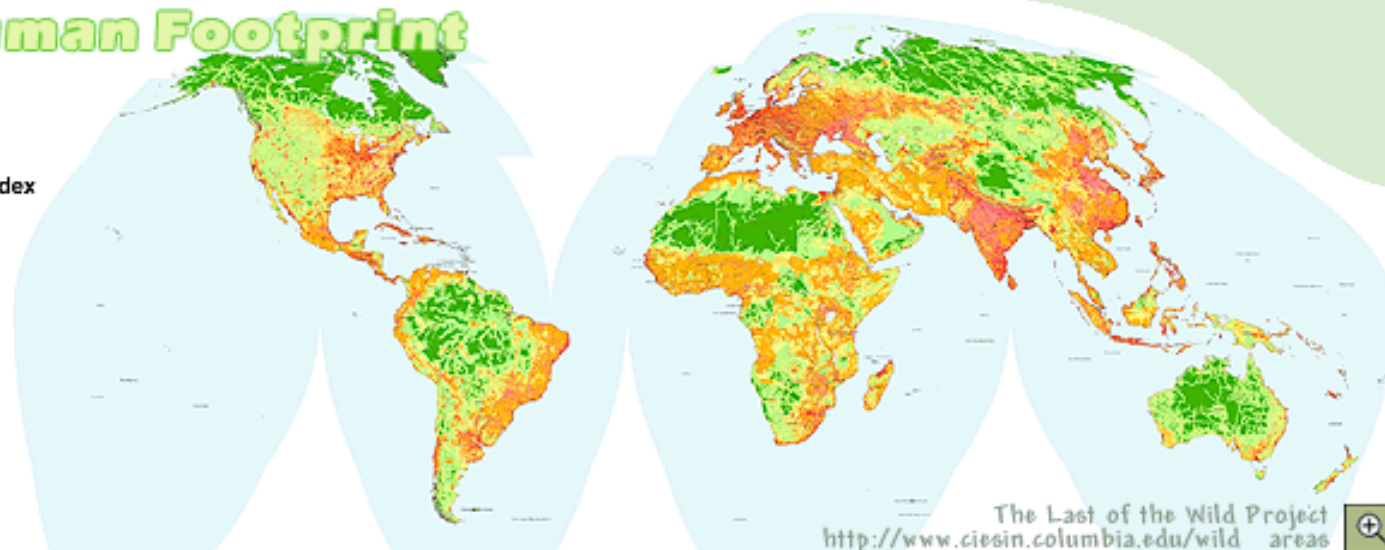
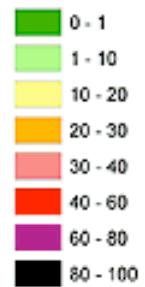


August, 2002

# The Human Footprint



Human Influence Index



The Last of the Wild Project  
[http://www.ciesin.columbia.edu/wild\\_areas](http://www.ciesin.columbia.edu/wild_areas)



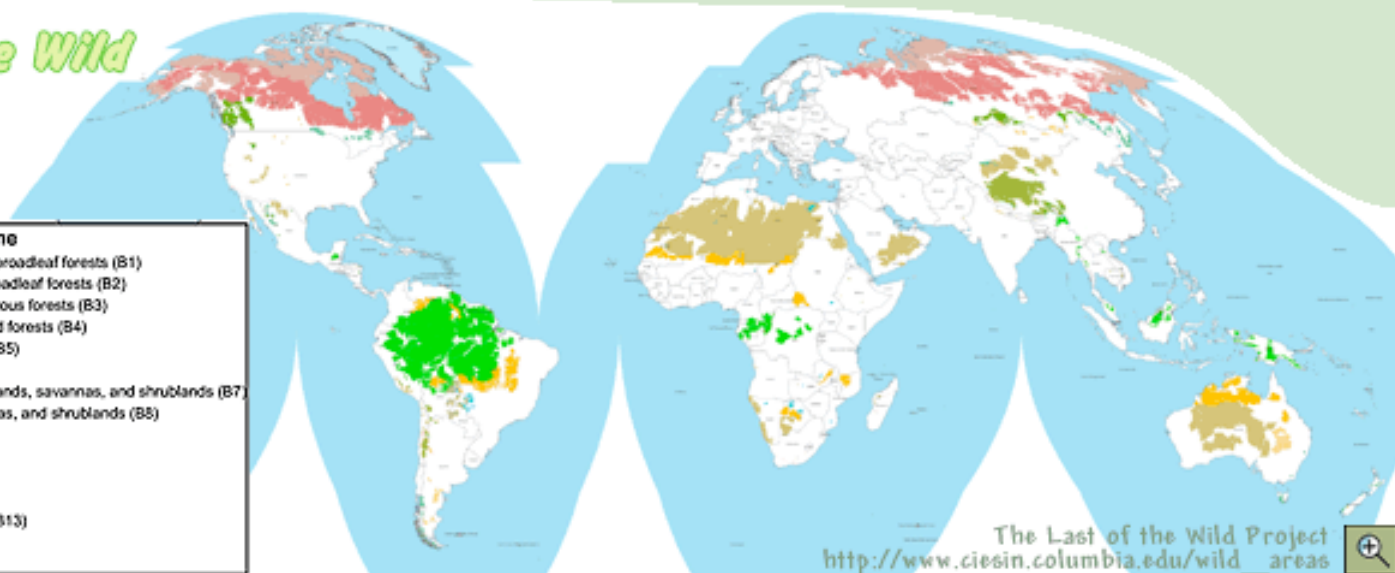
August, 2002

## Last of the Wild



### Wild Area in WWF Biome

- Tropical and subtropical moist broadleaf forests (B1)
- Tropical and subtropical dry broadleaf forests (B2)
- Tropical and subtropical coniferous forests (B3)
- Temperate broadleaf and mixed forests (B4)
- Temperate coniferous forests (B5)
- Boreal forest/taigas (B6)
- Tropical and subtropical grasslands, savannas, and shrublands (B7)
- Temperate grasslands, savannas, and shrublands (B8)
- Flooded grasslands (B9)
- Montane grasslands (B10)
- Tundra (B11)
- Mediterranean scrub (B12)
- Deserts and xeric shrublands (B13)
- Mangroves (B14)
- Snow, ice and lakes (B19)




The Last of the Wild Project  
[http://www.ciesin.columbia.edu/wild\\_areas](http://www.ciesin.columbia.edu/wild_areas)



CCIR-NY Homepage - Mozilla Firefox

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Site Map About CCIR-NY Key Topics Resources



# Climate Change Information Resources

## New York Metropolitan Region (CCIR-NYC)

**What is climate change?**

**What are its impacts?**

**What can be done about it?**


Your NOAA Forecast  
  
 Enter ZIP Code/Click

**Resources**



**Search**

What's happening to the climate in the New York metropolitan area and what will it mean for the people who live here? We hear a lot about climate change, climate variability, and global warming, but how will these changes impact the New York region and people living in it?

The Climate Change Information Resources for the New York metropolitan area (CCIR-NY) website was created as an information resource for policy makers, educators and the general public. It is designed to provide easy access to scientific and policy information about climate change, its impacts on our region, and strategies for adaptation and mitigation. The site contains questions and answers about these **key issues**, and a **resource area** with links to documents, data, and academic, professional, governmental and non-governmental organizations dealing with these issues.



Click for larger map, with links to Climate Change information by County.

The CCIR-NY was developed under a grant from the National Oceanic and Atmospheric Administration (NOAA) to the Center for International Earth Science Information Network (CIESIN), Columbia University, with the collaboration of Goddard Institute for Space Studies and Hunter College.

[Project Leadership](#)

For more information about CIESIN and our activities contact CIESIN User Services  
 Telephone: 1 (845) 365-8988 FAX: 1 (845) 365-8922  
 File last modified: 25 August 2004

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<http://alpha.ccir.ciesin.columbia.edu/nyc/mapwin.html>

# Northeast Information Node



**nbi** Northeast Information Node

**Partners**

- Hudson River Corridor
- Northeastern States Sustainable Forest Management
- Wildlife Disease and Human Health
- Invasive Species
- New York City Metropolitan Area
- Hackensack River Watershed

**Search**



 FNA

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# Building Knowledge Through Partnerships



THE UNIVERSITY *of* VERMONT



Mailman School of Public Health  
Columbia University

THE STATE UNIVERSITY OF NEW JERSEY  
**RUTGERS**





Metropolitan East Coast Assessment  
"Climate Change and a Global City"



**CIRESIN**  
Columbia University

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 INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE  
**The IPCC Data Distribution Centre** 

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▶ Scenario Data - SRES  
▶ Scenario Data-Downscaled  
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Links

### SOCIOECONOMIC DATA AND SCENARIOS

Welcome to the Socioeconomic Section of the Data Distribution Centre (DDC) of the Intergovernmental Panel on Climate Change (IPCC). The Socioeconomic DDC provides access to baseline and scenario data related to population, economic development, technology and natural resources for use in climate impact assessments. This information, along with environmental data and scenarios also held by the DDC, is important for characterizing the vulnerability and adaptive capacity of social and economic systems in relation to climate change in different regions. For many exposed systems, the impacts of climate change could be strongly moderated by future socioeconomic and technological developments, so these need to be taken into account in any assessment.

**Current holdings are:**




- [Baseline Data: IPCC Report on the Regional Impacts of Climate Change](#)
- [Scenario Data: Climate Change 1992: The Supplementary Report to the IPCC Scientific Assessment \(IS92\)](#)
- [Scenario Data: IPCC Special Report on Emissions Scenarios \(SRES\)](#)
- [Scenario Data: Country-level Population and Gross Domestic Product \(downscaled based on SRES\)](#)

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**Important Note about Scenario Data**

This site includes a range of scenario data taken from or based on several different IPCC reports. It is important to recognize that these scenarios are not probabilistic predictions or forecasts of future changes in population, economic development, greenhouse gas emissions, or climate. The SRES report states:

"Scenarios are alternative images of how the future might unfold and are an appropriate tool with which to analyze how driving forces may influence future emission outcomes and to assess the associated uncertainties. They assist in climate change analysis, including climate modeling and the assessment of impacts, adaptation, and mitigation. The possibility that any single emissions path will occur as described in scenarios is highly uncertain." (IPCC, 2000: 3)

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Please visit our website for information about our programs & Projects and access to databases such as those of the SocioEconomic Data and Applications Center (SEDAC):

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