IPCC
Task Group on Data and Scenario Support for Impact and Climate Analysis (TGICA)

UNFCCC NWP expert meeting
Mexico City. 4-7 March.

Cecilia Conde, *Tim Carter, Xianfu Lu*

TGICA - Mandate

Facilitate wide availability of climate change related data and scenarios to enable research and sharing of information across the three IPCC working groups:
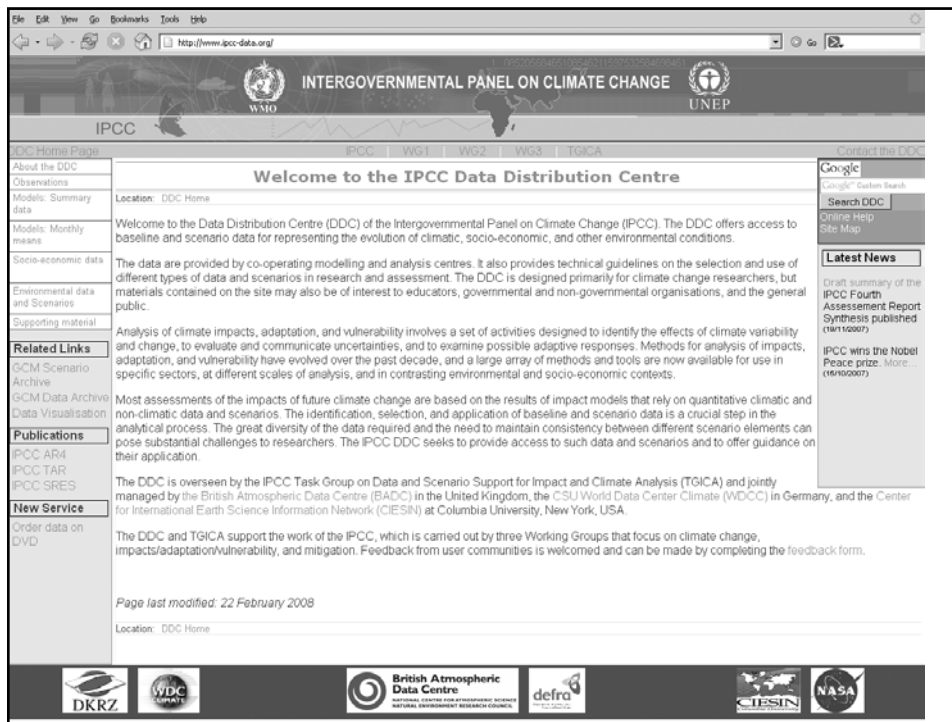
– anthropogenic influences on climate,

– climatological baselines and observations,

– projected future climate,

– environmental, technological, and socioeconomic factors,

Other Info and Activities

- Data relevant to impacts, adaptation, vulnerability, and mitigation research;
- Contributes to building capacity in the use of data and scenarios for climate-related research in developing and transition-economy regions and countries;
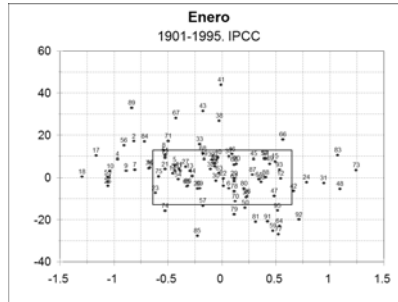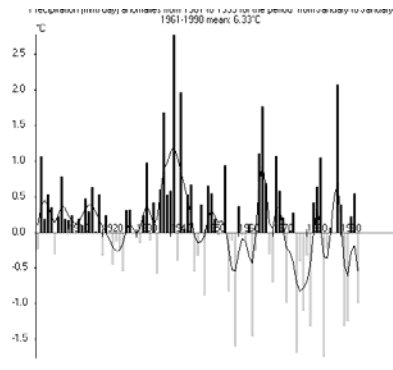- Coordinates a Data Distribution Centre (DDC)

DDC
(http://www.ipcc-data.org)

Welcome to the IPCC Data Distribution Centre

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Location: DDC Home

Welcome to the Data Distribution Centre (DDC) of the Intergovernmental Panel on Climate Change (IPCC). The DDC offers access to baseline and scenario data for representing the evolution of climatic, socio-economic, and other environmental conditions.

The data are provided by co-operating modelling and analysis centres. It also provides technical guidelines on the selection and use of different types of data and scenarios in research and assessment. The DDC is designed primarily for climate change researchers, but materials contained on the site may also be of interest to educators, governmental and non-governmental organisations, and the general public.

Analysis of climate impacts, adaptation, and vulnerability involves a set of activities designed to identify the effects of climate variability and change, to evaluate and communicate uncertainties, and to examine possible adaptive responses. Methods for analysis of impacts, adaptation, and vulnerability have evolved over the past decade, and a large array of methods and tools are now available for use in specific sectors, at different scales of analysis, and in contrasting environmental and socio-economic contexts.

Most assessments of the impacts of future climate change are based on the results of impact models that rely on quantitative climatic and non-climatic data and scenarios. The identification, selection, and application of baseline and scenario data is a crucial step in the analytical process. The great diversity of the data required and the need to maintain consistency between different scenario elements can pose substantial challenges to researchers. The IPCC DDC seeks to provide access to such data and scenarios and to offer guidance on their application.

The DDC is overseen by the IPCC Task Group on Data and Scenario Support for Impact and Climate Analysis (TGICA) and jointly managed by the British Atmospheric Data Centre (BADC) in the United Kingdom, the CSU World Data Center Climate (WDCC) in Germany, and the Center for International Earth Science Information Network (CIESIN) at Columbia University, New York, USA.

The DDC and TGICA support the work of the IPCC, which is carried out by three Working Groups that focus on climate change, impacts/adaptation/vulnerability, and mitigation. Feedback from user communities is welcomed and can be made by completing the feedback form.

Page last modified: 22 February 2008

Location: DDC Home

DDC

Provides

– data sets: observations, model projections, socio-economic variables;

Application: Ecuador

Desinventar

-2 to 0° lat; -78 to -76° long

DDC

Provides

- data sets: observations, model projections, socio-economic variables;
- climate and other scenarios

AR4 →DDC

- **Monthly means** of climate variables obtained from AOGCM simulations for the 20th and 21st centuries used to project future climate;
- **20and 30 year averaged** monthly means from the above simulations;
- **Period- averaged gridded** climatological observations from selected datasets used to describe historical surface climate change

DDC

Provides
- data sets: observations, model projections, socio-economic variables
- climate and other scenarios,
- guidance documents

Guidance documents on the DDC

On the use of **climate scenarios** for impacts, vulnerability and adaptation assessments

1. **General** guidance (revised in 2007)
2. Scenarios derived from **regional climate model experiments**;
3. Scenarios derived from **statistical downscaling**

Forthcoming guidance

1. **Sea level scenarios** for impact and vulnerability assessment of coastal areas,
2. The application of **socio-economic scenarios** in climate I&V&A assessments,
3. The analysis of **observed impacts** of climate change