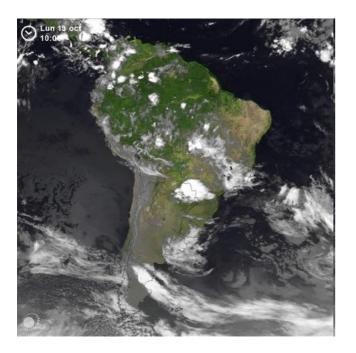


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EUROCLIMA – Scientific Component



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http://www.jrc.ec.europa.eu/





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• DG JRC is a Directorate General of the European Commission with the Mission Statement of providing customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies. As a service of the European Commission, the JRC functions as a reference centre of science and technology for the Union.

• Close to the policy-making process, it serves the common interest of the Member States, while being independent of special interests, whether private or national

- 7 Research Institutes Total Staff : 2750
- Annual Budget: 330 MEuros

• Research activities defined by the Framework Programme: FP7



EUrocLIMA – Expected Results

- 1. Improvement of policies related to Climate Change in Latin America
- 2. Improvement the exchange of scientific and socio-economic Information and Data related to Climate Change
- 3. Reinforcement and development of technical and scientific capacities in Latin America





- JRC coordinates EUrocLIMA's scientific and technical activities
- Identifying key LA research and technical institutions
- Identifying Information and Data Needs from the Policy Makers and Research Institutions
- Seminars, Capacity Building and Training
- Improving access to information, data and models



EUrocLIMA – Scientific Activities

SOILS

- SOIL ATLAS of Latin America
- Latin American Network of SOIL Agencies
- Development of a LA SOIL GeoPortal

FOOD SECURITY

Scenarios of Mitigation and Adaptation of LA Agricultural Systems to Climate Change

WATER RESOURCES

- Implementation of a Virtual Network of LA Institutions in Water Resources Management
- Regional Hydrological Balance
- Water and Sanitation Water Quality Analysis

BIO-ENERGY Sustainability

- Impacts of Bio-Fuels in Latin America agro-environments
- GHG emissions from bio-fuels
- Technology transfer

DESERT-DROUGHT

- Drought map server for Latin America
- LA Map Server of Desertification/Natural Soil Degradation for Latin America



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The Soil Atlas of Latin America will make extensive use of the existing soil data archive within the European Soil Data Centre of the JRC

The Soil Atlas of Latin America is part of the successful series of soil atlases published by the European Commission during the last years. It will benefit from the vast experience gained so far by the JRC in compiling such reference publications. It will be based on existing data and information and will be compiled in close collaboration with the National soil survey organizations of the participating countries. A specific network of National soil surveys (Latin America Soil Bureau Network) will be established that will support the compilation of this reference publication.

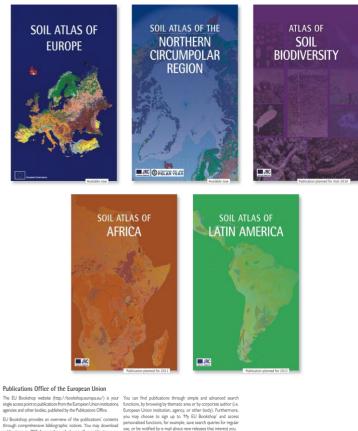
Further info at : http://eusoils.jrc.ec.europa.eu/

Soil Atlas of LA will be included in:

http://eusoils.jrc.ec.europa.eu/library/maps/LatinAmerica Atlas/index.html

JRC Soil Atlas Series

sion Joint Research Centre is collaborating with soil scientists and researchers from all over the world to develop eries of soil-related atlases. To obtain a copy or for further information, please consult the Publications Office of the European Union p://publications.europa.eu/lor the IRC SOIL Action's web site (http://eusoils.irc.ec.europa.eu)



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Additional information | Soil Atlas of the Northern Circumpolar Region 143

EUROPEAN COMMISSION

EUrocLIMA – Scientific Component

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The Soil Atlas of Latin America will make extensive use of the existing soil data archive within the European Soil Data Centre of the JRC

EUROCLIMA Soil Partners:

EMBRAPA (Br), UNAM (Mx), Univ. Costa Rica, ENLASA, INTA-Suelos (Ar), CIAT (Col), Univ. Nac. Agraria (Peru), UCATSE (Nic), Univ. Central (Eq), Inst. Suelos (Cuba), Esc. Agric. Panam (Hond), AgroSoil (CR), ... THE SOIL MAPS OF LATIN AMERIC & CARIBBEAN ISLANDS European Digital Archive of Soil Maps - EuDASM

About this DVD-ROM

Introduction to Latin America & Caribbean islands Map Archive

Gelapopte Alunch 2

Ecuar

South

Atlantic

Fahland Islands (Islas Matericas) (Urmanitud by U

Soil maps of Latin America & Caribbean islands -Metadata

Display Maps

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The Soil Atlas of Latin America will make extensive use of the existing soil data archive within the European Soil Data Centre of the JRC

The Soil Portal will have an expanded section on LA :

THE SOIL MAPS OF LATIN AMERIC & CARIBBEAN ISLANDS 1901 European Digital Archive of Soil Maps - EuDASM Gelapopte Alanch 2 Ecuade About this DVD-ROM Introduction to Latin America & Caribbean islands Map Archive Soil maps of Latin America & Caribbean islands -Metadata Display Maps The designations employed and the presentation of the material in this information product do not imply the expression of any opinion whatsover on the part of the European Commission/Joint Research Centre, the Institute for Environment and Sustainability or ISRIC - World Soil Information concerning the legal status of any country, territory, city or area, or concerning the delimitation of its frontiers or South boundaries. Atlantic http://eusoils.jrc.ec.europa.eu/esdb archive/EuDASM/latinamerica/index.ht



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EUrocLIMA – Scientific Component

Global Soil Map Regional Nodes ISRIC ISSAS TSBF-CIAT EMBRAPA University of Sydney CSIRC Node leaders Supporting Institutions

Africa South of the Sahara	Middle East/ North Africa
EastAsia	North America
Eurasia	Oceania
Latin America and the Caribbean	South Asia

(Middle East/North Africa and South Asia nodes pending) Source for land area data: http://sedac.ciesin.columbia.edu/place/datasets.jsp

Land Area Per Region (sq.	km)
East Asia	13,634,162
Eurasia	23,762,066
Latin America/Caribbean	18,393,410
Middle East/North Africa	15,359,662
North America	20,613,157
Oceania	10,663,346
South Asia	4,372,529
Sub-Saharan Africa	23,911,997



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EUrocLIMA – Food Security

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Transferring 20 Years of Knowledge to Latin America

The following activities are planned under EUROCLIMA:

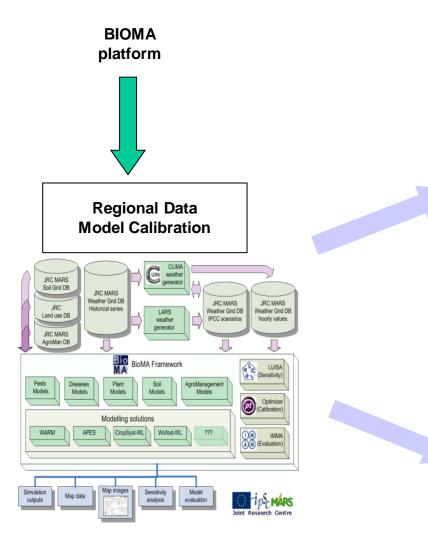
- Activity 1. Development of consistent agro-climatic databases (weather, soils, crop and management);
- Activity 2. Calibration of models Development of climate change scenarios, including two time horizons: 2020s, 2050s; two SRES scenarios A1B and B1;
- Activity 3. Climate change studies: simulated crops in study region of interest, including wheat, maize, soybean, sugarcane.

Three stakeholders workshops will provide training in model use for impact assessment with emphasis on Latin America

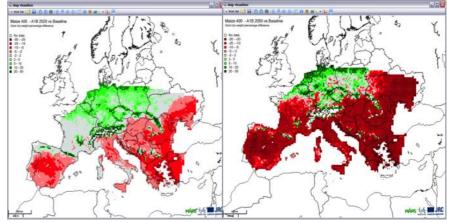


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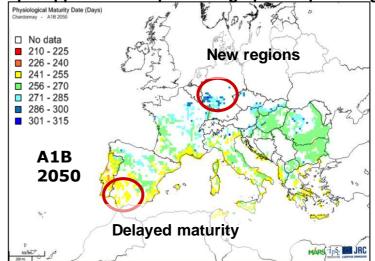
Examples of models and tools for Climate Change



Sample application: Impacts on Maize Yields



Sample application: Impacts on grapevine phenology





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International Experts meetings on Biofuels and Technology Transfer

The following activities are planned under EUROCLIMA:

Objective: To provide Latin American countries with a realistic and scientifically based assessment of:

Activity 1. environmental assessment of biofuels production;

Activity 2. GHG emissions from biofuels and comparison with reference scenarios;

Activity 3. perspectives of technology transfer from Brazil or Europe to Latin American or tropical countries.

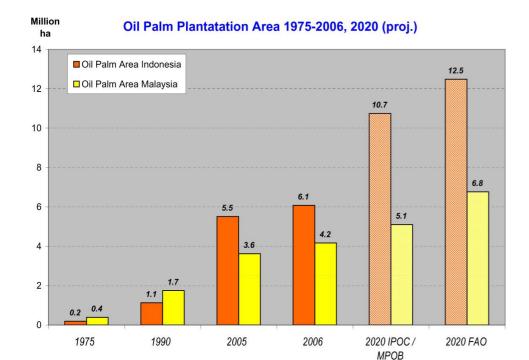
Three Expert workshops with LA Institutions will be organized for implementing the different activities.

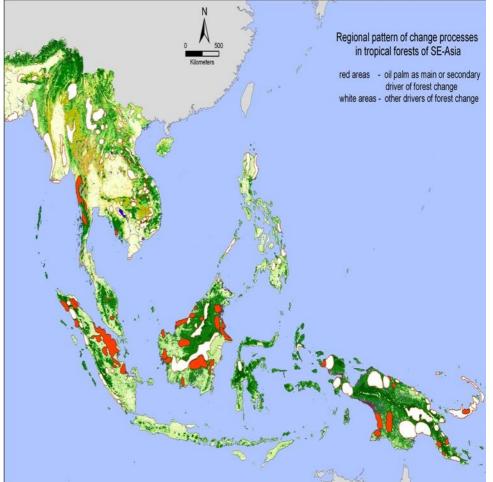


Sustainability Assessment Example

□ Impacts of biofuels policies on tropical areas

- Direct and Indirect impacts
- Environmental/social effects in the producing countries
- Measures to limit deforestation and other damaging effects







EUrocLIMA – Drought/Desert

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Transferring 15 Years of Knowledge to Latin America

The following activities are planned under EUROCLIMA:

Activity 1. Drought map server for Latin America;

Activity 2. Map Server of Desertification/Natural Soil Degradation for Latin America



EXAMPLE – European Drought Observatory

JRC Cancun on 6th December 2010 - EUrocLIMA Side Event 19 European European Drought Observatory (EDO) - Vision Data **L**ayers Communication on Drought and Water Scarcity Soi Products **Drought Management Plans Rainfall Anomalies** DEM Soil Moisture Anomalies Bs MONITORING Vegetation & MODELLING Vigour **Meteorological** Data **Hydrological Processes** Stations ... Fields Fore-Outgoing Incoming solar flux solar flux casts **EDO Map** Server **Remote Sensing** Data I_{Ground}^{\dagger} FAPAR Land Surface Processes Ð NDWI Time Series European, MS, River Basin, ... **Authorities**



WORLD Atlas

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World Atlas on Desertification Land Degradation and Drought

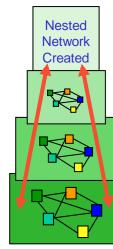








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EUrocLIMA – Water Resources

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Integrating LA Institutions in an International Network of Centres of Excellence in Water

The following activities are planned under EUROCLIMA:

Activity 1. Implementing a Virtual Network of LA Institutions in Water Resources Management;

Activity 2. Regional Hydrologic Balance;

Activity 3. Water and Sanitation – Water Quality Analysis;



Implementing a Virtual Network of LA Research Institutions in Water Resources Management

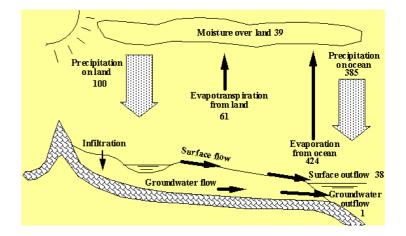
- Continental Stakeholder Analysis
- Identification of Key LA Research Institutions
 - Meeting of LA Expert (Quito, November 2010)
 - Working Groups http://AQUAKNOW.NET
- 1st Coordination Meeting of International Centres of Excellence in Water in Developing Countries
 - International Workshop on Water Resources Management :
 - Africa Latin America Europe and China (Ispra, July 2011)

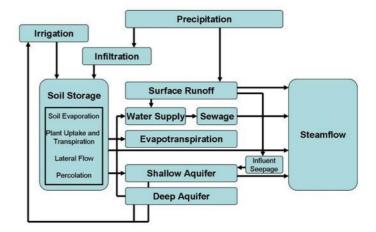




Detecting Anomalies in the Water Cycle Product: Regional Hydrologic Balance

- Identification of User Needs :
 - Regional Meeting of LA Experts in Water Management (Quito – November 2010)
- Product Specification
 - February 2011
- Development and Implementation
 - December 2012







Water and Sanitation – Water Quality

- First Meeting: Quito November 2010
- Product Specification : – February 2011
- Development and Implementation:
 - December 2012





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Muchas gracias por su atención...