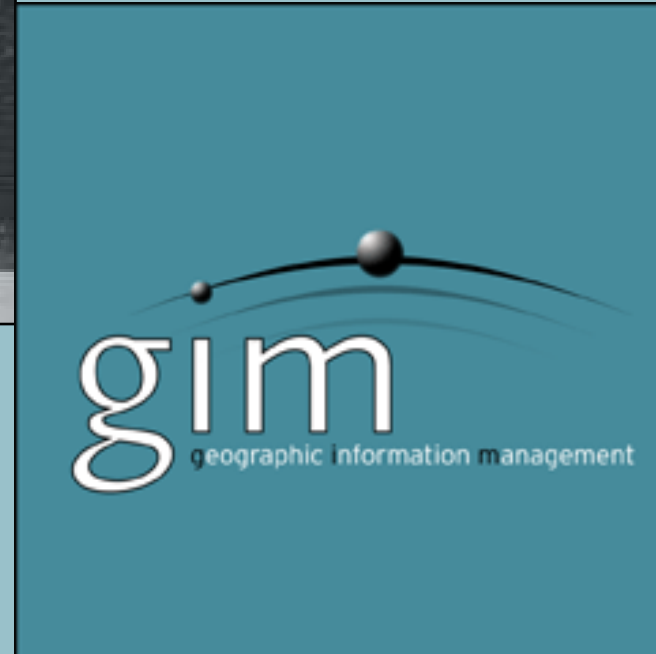


## GEOSUCCESS

STEREO & VEGETATION  
ontmoetingsdag  
9 mei 2003



Caroline Heylen  
Project coordinator

- The project and partnership in brief
- What is GEOSUCCESS?  
Objectives, Products, Services
- The demonstration project  
Objectives, expected results
- Questions?

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## GEOSUCCESS

Global Earth Observation  
in Support of  
Climate Change  
and  
Environmental Security  
Studies

- VEGETATION scientific support programme
- Demonstration of an operational service
- Directed at
  - the scientific community (global change, sustainable development)
  - policy-makers (international environmental treaties)

- GIM
  - Project Coordinator
  - Services and website development
- Trasys
  - Product automation
  - Backoffice, integration in global architecture of Vito
- Vito
  - Operational activities
  - Scientific support, contacts with user community

## The Project Time Frame

- Started in January 2003
- Runs till June 2005
- 6-monthly phases
  - development
  - user feedback

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- Contribute to GMES initiative
  - GMES: Global Monitoring for Environment and Security
  - European Commission/ESA initiative
  - how:
    - improved data collection
    - generation of information tht reflects trends and changes in the global environment
- Support to Kyoto protocol verification

### GEOSUCCESS

- creates operational products based on EO data (VGT and other)
- on evolution of vegetation cover and related parameters
- on global or regional level (low resolution)
- calculated (near) real time
- products developed by Vito and other scientific institutes

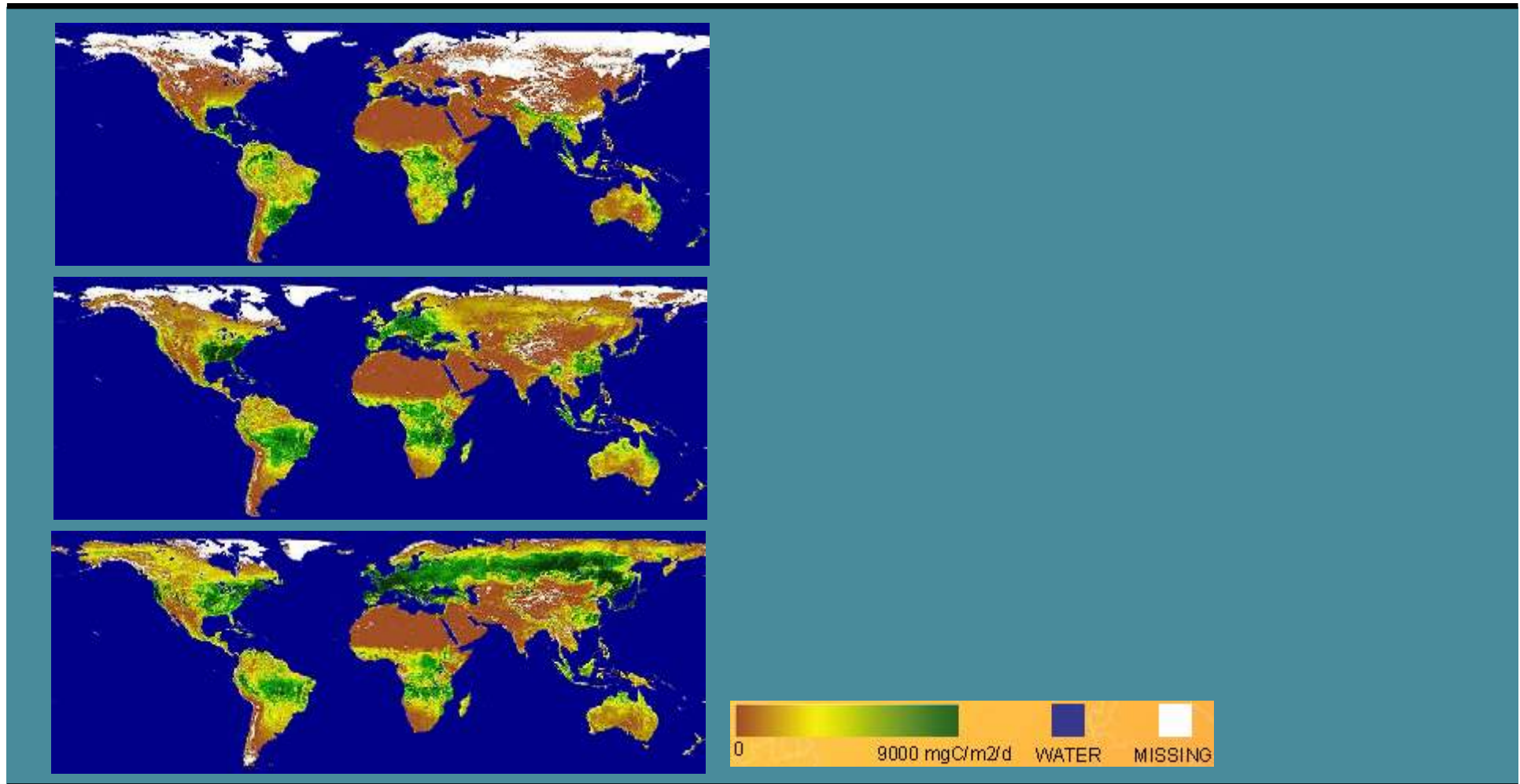
### GEOSUCCESS website

- accurate and regular delivery of information required for monitoring the environment
- processed data are immediately available
- thus (near) real time follow up of vegetation cover and appearance of unexpected results
- user-friendly interface
- user forum
- background information

- Environmental Conventions
- Environmental Stress
- Natural Disasters

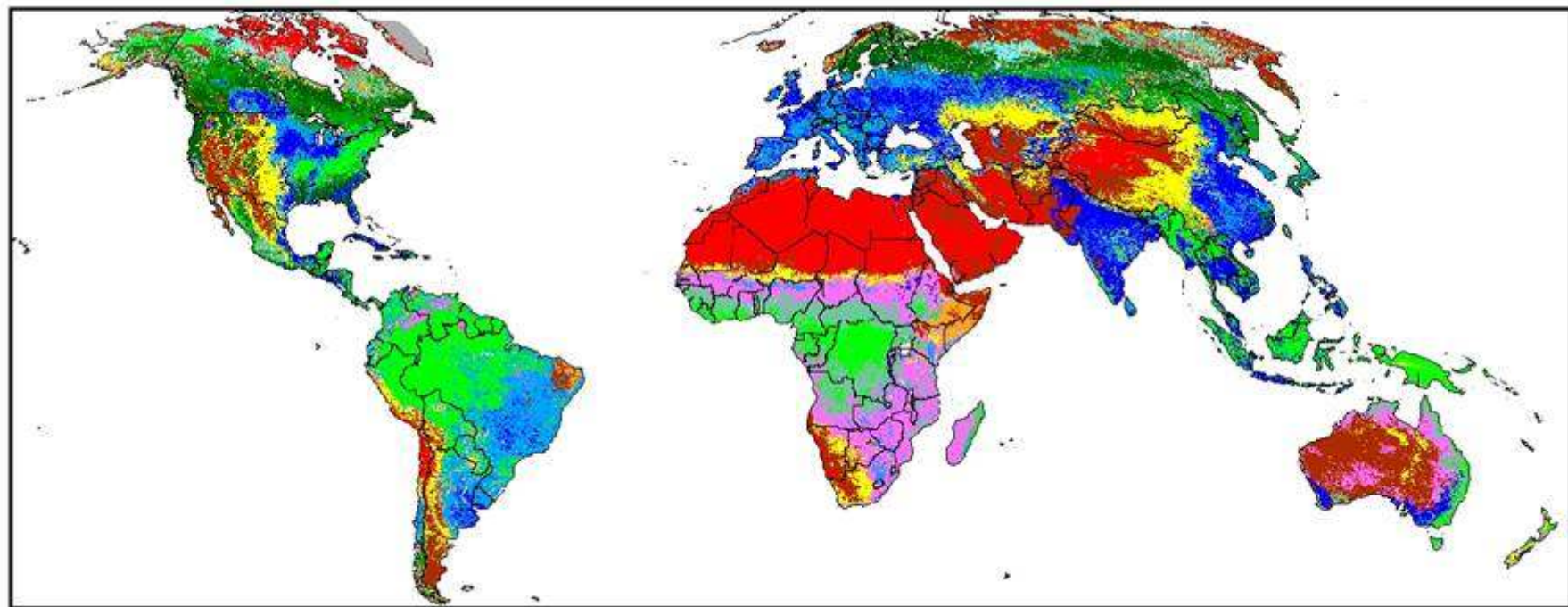
- Environmental Conventions
  - Net Primary Productivity
    - repeatable estimates of the net flux of carbon between the atmosphere and terrestrial vegetation
    - used to monitor vegetation growth, carbon sinks and sources, crop yield forecasting, deforestation, ...
    - updated every decade (10 days synthesis)
    - world wide
    - developed by VITO
















# Net Primary Productivity Map



- Environmental Conventions
  - Biome Classification
    - spatial distribution of terrestrial ecosystems
    - 17 biome classes of IGBP
    - used in ecology and biodiversity monitoring
    - updated once a year
    - world wide
    - developed by VUB (Centre for Cartography and GIS) and VITO





	Needleleaf forest		Woody Savannas		Urban and built-up
	Broadleaf forest		Savannas		Cropland and nat. vegetation mosaic
	Mixed forest		Grassland		Snow and ice
	Closed shrublands		Permanent wetlands		Barren and sparsely vegetated
	Open shrublands		Croplands		Water bodies



- Environmental Stress
  - Small water bodies
    - monitors the state of small ponds in semi-arid regions
    - used in water and health management, maps indicate precise location of temporal water bodies
    - updated every 10 days
    - covers arid and semi arid regions in Africa
    - developed by JRC, implemented by VITO.

## Burkina Faso



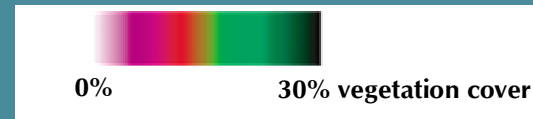
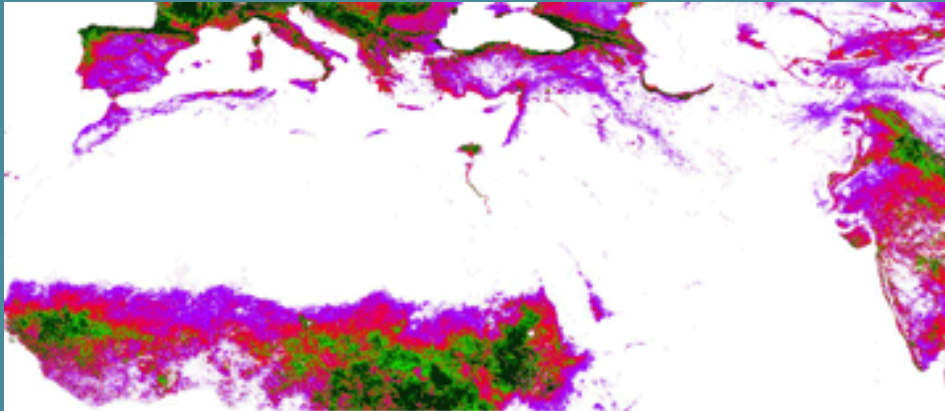
June 2001



October 2001

- Natural disasters
  - Apperent green cover percentage (arid regions)
    - desert locust common threat to agriculture in (semi) arid regions
    - used to monitor potential development of locust habitats
    - updated every 10 days
    - covers arid and semi arid regions in Africa
    - developed by FAO

# Apparent green cover percentage



## Website

- Order and download the products
- Scientific, methodological and technical information
- User forum
- FAQ

## Order products

- select product type
- select format
- select predefined ROI
- select period



The screenshot shows a 'Query' dialog box with the following fields and options:

- Type:** A list of radio buttons for product types: NPP (selected), NEP, DMP, BIOME, DL, SWB, and GLOBS.
- Format:** A dropdown menu set to 'HDF'.
- ROI:** A dropdown menu set to 'Africa'.
- From:** Three dropdown menus for year (1998), month (January), and day (1).
- To:** Three dropdown menus for year (1998), month (January), and day (1).
- Buttons:** 'Cancel' and 'Search' buttons at the bottom right.



# Overview of GEOSUCCESS services (3/4)

## Download products

- list of selected products

Result (6 products)						
ROI	Instrument	Date	Type	Format	Size	
<input type="checkbox"/>	Africa	VGT1	2000 January 01	NPP	HDF	33.05 MB
<input type="checkbox"/>	Africa	VGT1	2000 January 11	NPP	HDF	32.79 MB
<input type="checkbox"/>	Africa	VGT1	2000 January 21	NPP	HDF	32.54 MB
<input type="checkbox"/>	Africa	VGT1	2000 February 01	NPP	HDF	31.96 MB
<input type="checkbox"/>	Africa	VGT1	2000 February 11	NPP	HDF	31.85 MB
<input type="checkbox"/>	Africa	VGT1	2000 February 21	NPP	HDF	31.45 MB
<input type="checkbox"/>	<b>Select All</b>					
The total size of your active products is 65.25 MB.						
There is 4.94 GB free space to add new products.						
			<input type="button" value="Cancel"/>	<input type="button" value="Add to your active products"/>		

## Download products – via FTP or HTTP

Active products		
File	Size	Days left for download
V1KRNS10_19980401_NPP_Africa.ZIP	32.83 MB	-1
V1KRNS10_19980411_NPP_Africa.ZIP	32.41 MB	-1
V1KRNS10_20000101_NPP_Africa.ZIP	33.05 MB	5
V1KRNS10_20000111_NPP_Africa.ZIP	32.79 MB	5

**Click on the product to download it !!!**

**The total size of your active products is 131.09 MB.**  
**There is 4.87 GB free space to add new products.**

**Add new products to your active products**



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## The demonstration project Objectives/Expected results

Better serve the user community

Broaden the user-base

- Improved understanding of user needs
- Extension of the range of products
- On-line distribution channel for custom-made products
- On-line user-friendly analysis
- Developing appropriate pricing policies for key user communities



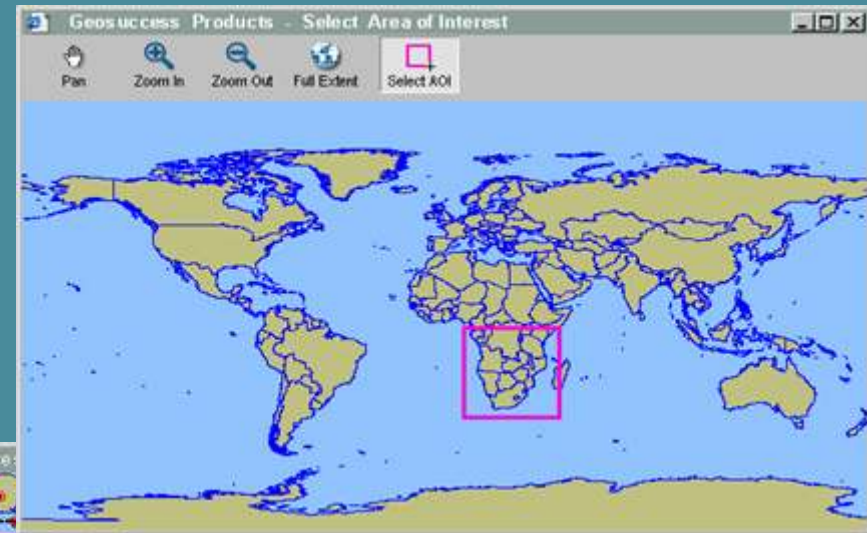
Bridging the gap between R&D and operational products



## The demonstration project Objectives/Expected results

- Actual use of GEOSUCCESS (October 2002)
  - 102 registered users
  - 850 downloaded products, 60% NPP, 20% DL
  - Region of Interest: Africa and Europe
- Questionnaire (Oct 2002): improvements
  - “flexible ROI”
  - on-line consultation

# The demonstration project Improved and new services

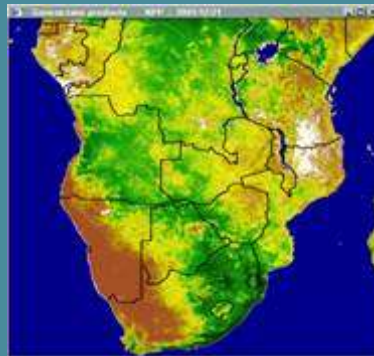
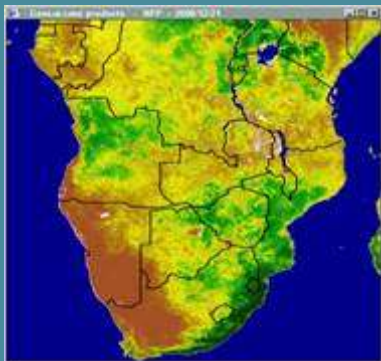


A user friendly web interface:

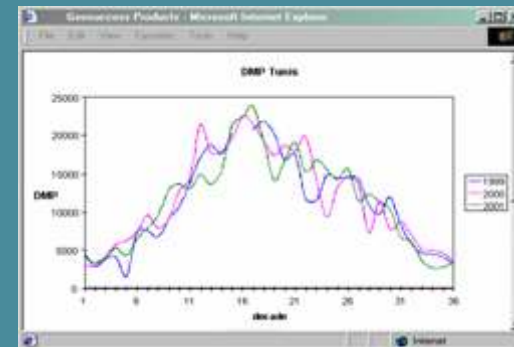
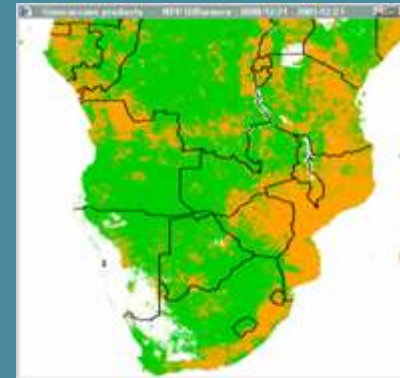
- product and ROI selection
- parameter and analysis definition

# The demonstration project Improved and new services

- A user friendly web interface:
- on the fly analysis, maps and reports
  - fast downloads of results



=





# The demonstration project

## User interaction

Web forum




**GEOSUCCESS**  
 my profile | register | search | faq | forum home

» Today's Active Topics «

» You are not logged in. [Login](#) or [Register](#)

Welcome to the Geosuccess Forum

Forum	Topics	Posts	Last Post	Moderators
 <b>Geosuccess</b>	1	1	 <b>Welcome (Geosuccess)</b> 25 April 2003 13:55	<b>Geosuccess</b>

All times are CET

**Icon Legend**

 New Posts Since Your Last Visit     No New Posts Since Your Last Visit

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Thank you!

Questions ?