



Overview of Dutch partners - Agriculture, Water and Space sector



Joost van Uum

Netherlands Space Office (NSO)



www.spaceoffice.nl



Netherlands Space Office

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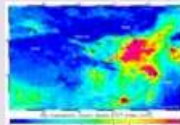
Organisations

Contact

Map

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KNMI



Visiting Address

Wilhelminalaan 10
3732 GK De Bilt

Postal Address

Postbus 201
3730 AE De Bilt
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Space organisations



www.waterandclimateservices.org

Netherlands
Cooperation
on Water and
Climate Services



*An unique cooperation of 45 Dutch organisations
that offer solutions for water and climate related challenges*

"Joint effort of 45 Dutch private companies, knowledge institutes to create added value within the Information Chain, from satellite to end-user, as a key towards affordable food security and water safety"

General
Information
Services

Flood
Safety
Services

Water
Management
Services

Water
Security
Services

Food
Security
Services

Other
services

Netherlands Cooperation on Water and Climate Services



*An unique cooperation of 45 Dutch organisations
that offer solutions for water and climate related challenges*

Food Security Services



Agro and Ecosystem services

Combining ecosystem services and agricultural products. Land use systems that produce biomass for energy and chemical industry

[WUR](#) [Contact](#)



Building with nature

Aquaculture, niche in water management. Adaptation of coastal structures and water management for secured livelihood in delta's for sustainable food production

[WUR](#) [Contact](#)



Crop Micro-insurance

Meteosat based flood and drought microinsurance reaching every farmer in Africa: RE drought index, CCD flood index, 30 years of data

[EARS](#) [Contact](#)



Crop monitoring and forecasting

Regional crop monitoring and forecasting providing weather and crop indicators and crop yield forecasts to support policy on trade and food security.

[WUR](#) [Contact](#)



Data for Agricultural production

Timely, objective and transparent data based on satellite and ground observations for food security and agricultural planning around the globe



Drymon Soil Moisture detection

Daily measurement of water in the soil with satellites based on daily observations

[NEO](#) [Contact](#)

Agriculture crop type, area, biomass and change maps

- Description service:

- Easy online access to bi-weekly agricultural crop type, area, biomass and change maps
- Based on cloud-free 5-30m or 250m radar and optical imagery
- In support of farmers, traders, and policy makers for efficient and sustainable agriculture, biofuel feedstock and food security

- Organisation(s) involved:

SarVision together with users

- Countries applied:

Europe. Near future: South America, West and Central Africa, South East Asia

More information:

Website: www.sarvision.nl



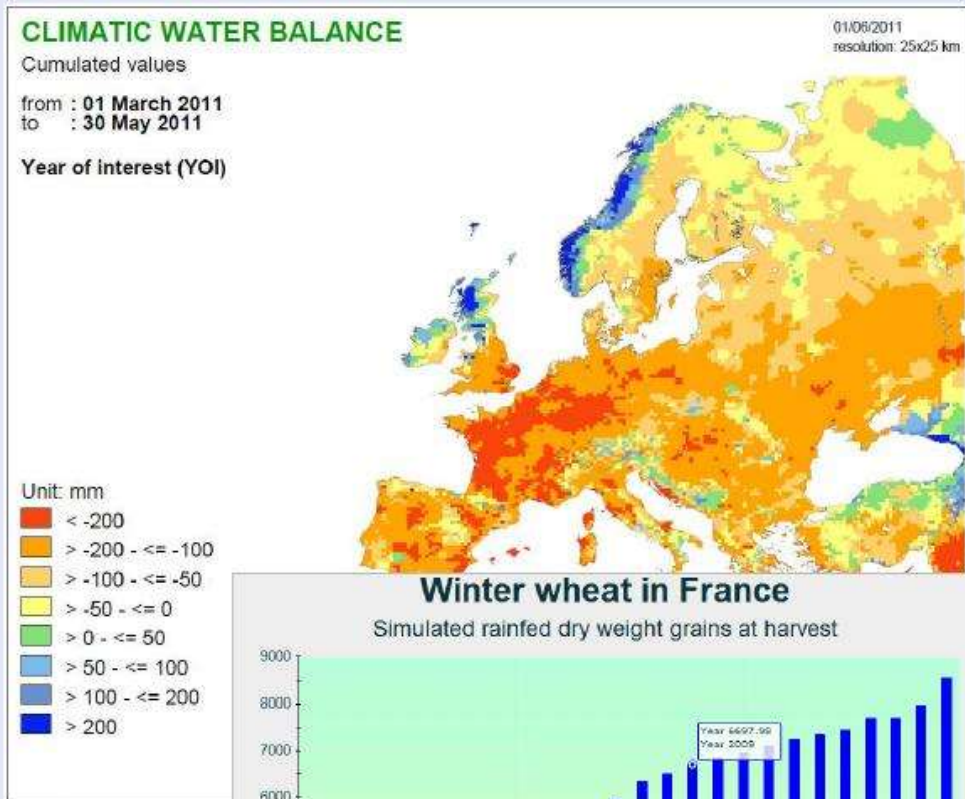
Contact: Niels Wielaard (wielgaard@sarvision.nl)



Field photos, radar image and simple crop map Flevoland, NL

Regional crop monitoring and forecasting

- Providing weather and crop indicators and crop yield forecasts to support policy on trade and food security
- Organisation(s) involved:
European Commission
Alterra Wageningen UR, Vito,
MeteoConsult,
Un. of Reading, Gisat
- Countries applied:
Europe and other strategic areas
of the world



More information:

Website: www.marsop.info

Contact person: Hendrik Boogaard

Email: Hendrik.boogaard@wur.nl



Continental to Regional Scale Soil Moisture Mapping

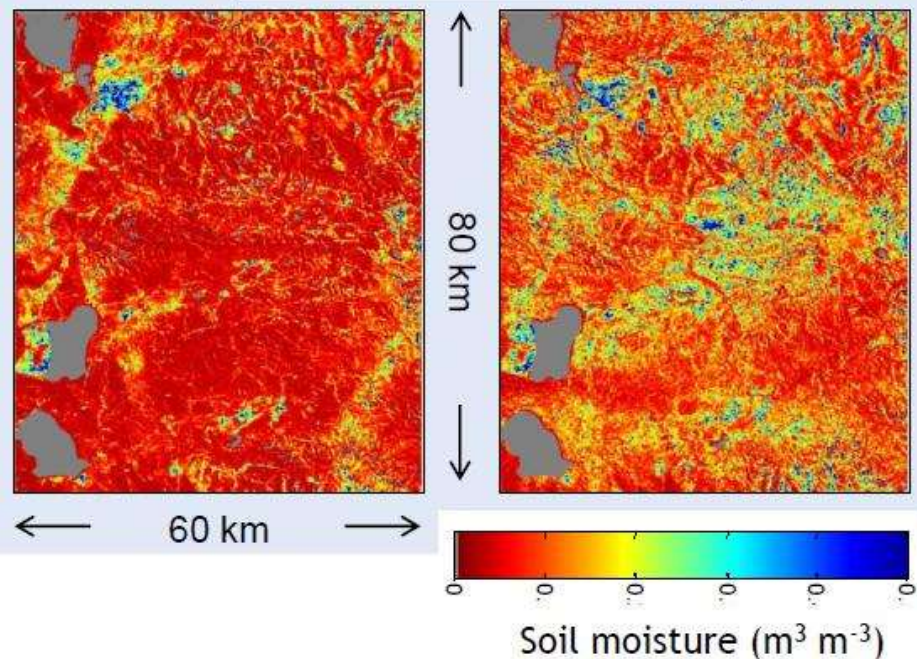
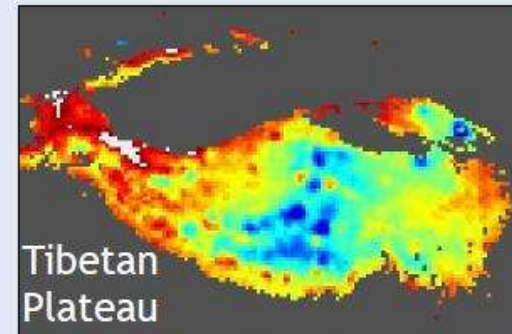
- The Faculty of ITC uses both coarse (25 km) and high (75 m) resolution microwave observation for soil moisture monitoring, which may serve as an early warning system for droughts and floods.
- *Organisation involved:* Faculty of ITC, University of Twente
- *Countries applied:* Netherlands, United States, China

More information:

Website: <http://www.itc.nl/Pub/research-themes/WCC>

Contact person: Dr. Ir. R. van der Velde or Prof. Dr. Ir. Z. Su

Email: velde@itc.nl or b_su@itc.nl



WaterPlanner

- online insight in water availability and water needs
 - Irrigation advice
 - Water supply control

Based on:

- Real time moisture content
- Precipitation and evaporation forecast

- Organisation(s) involved:
DHV, Nelen & Schuurmans, Deltares

Together with SME like:

Dacom, MeteoConsult, KNMI, eLeaf, NEO

- Countries applied:

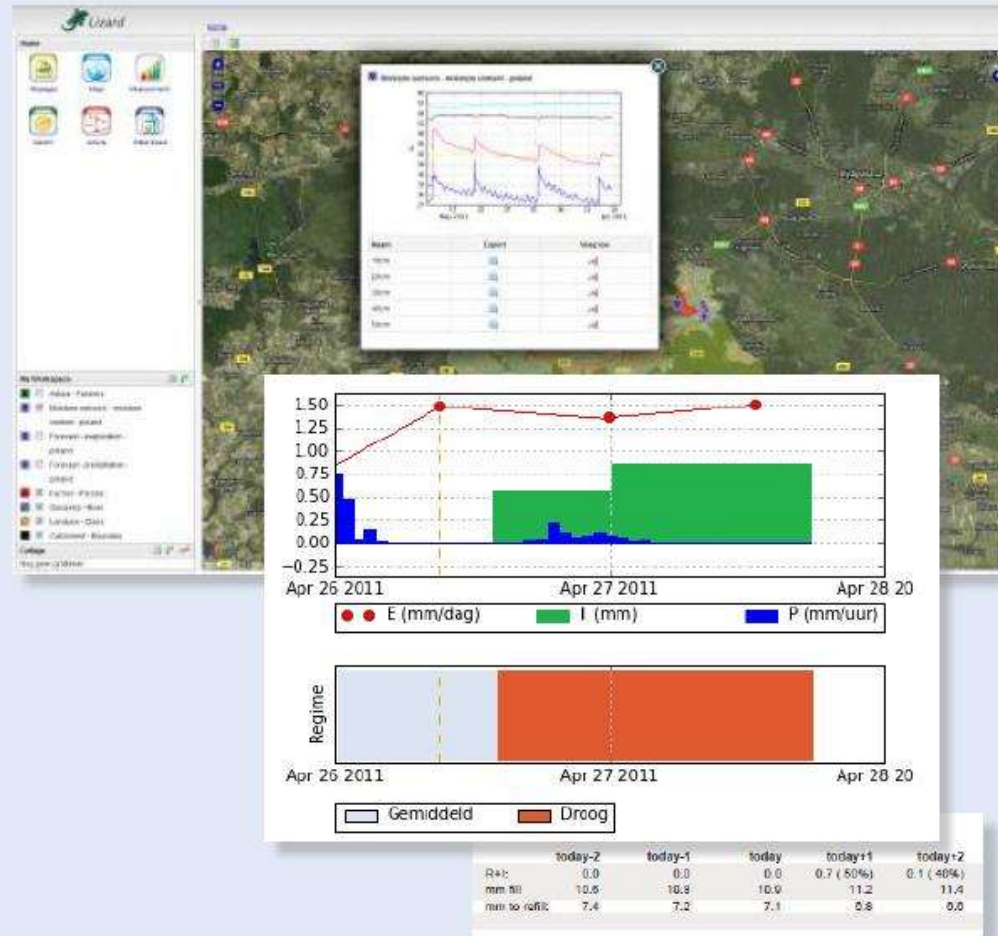
Netherlands, Poland

More information:

Website: www.dhv.com/rainapp

Contact person: Hanneke Schuurmans

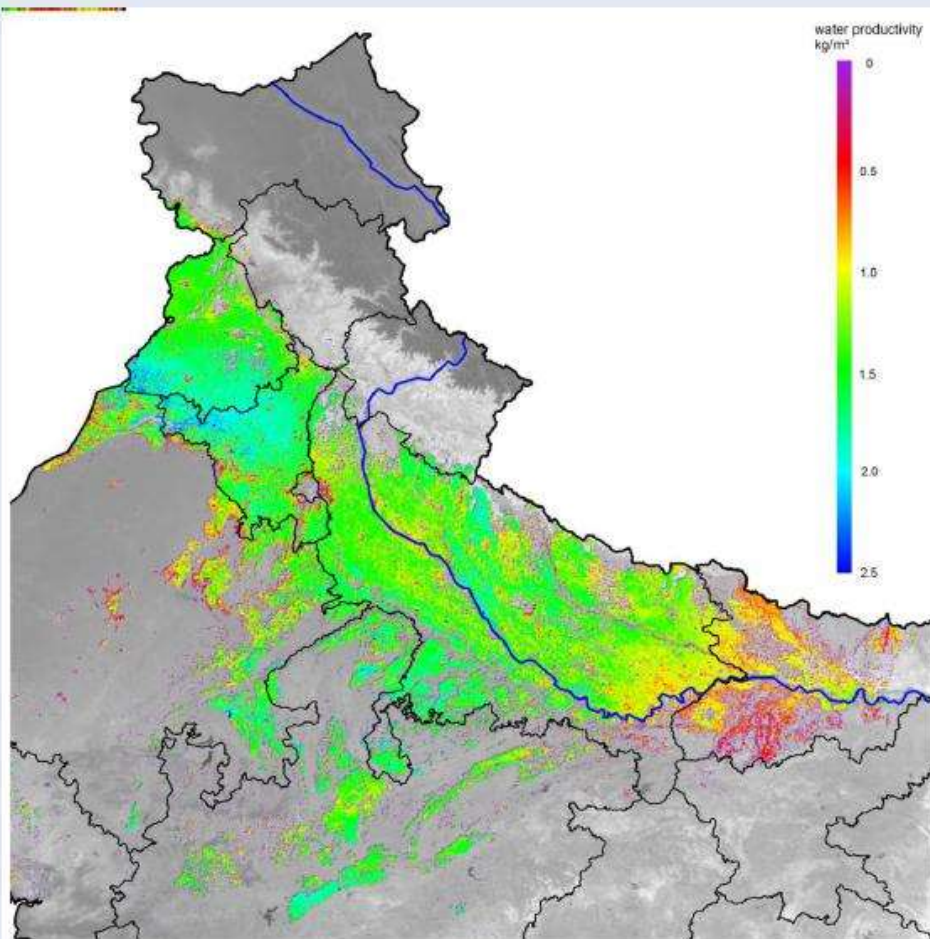
Email: hanneke.schuurmans@dhv.com



**Irrigation advice in Poland,
based on now- and forecasting
of hydrological system**

Increasing Crop per Drop

- Description service
Improving land and water productivity
- Organisation(s) involved:
IFC & Tata
- Countries applied: India, South Africa, Russia
More information:
Website: www.eleaf.com
Contact person: Wim Bastiaanssen
Email: wim.bastiaanssen@eleaf.com

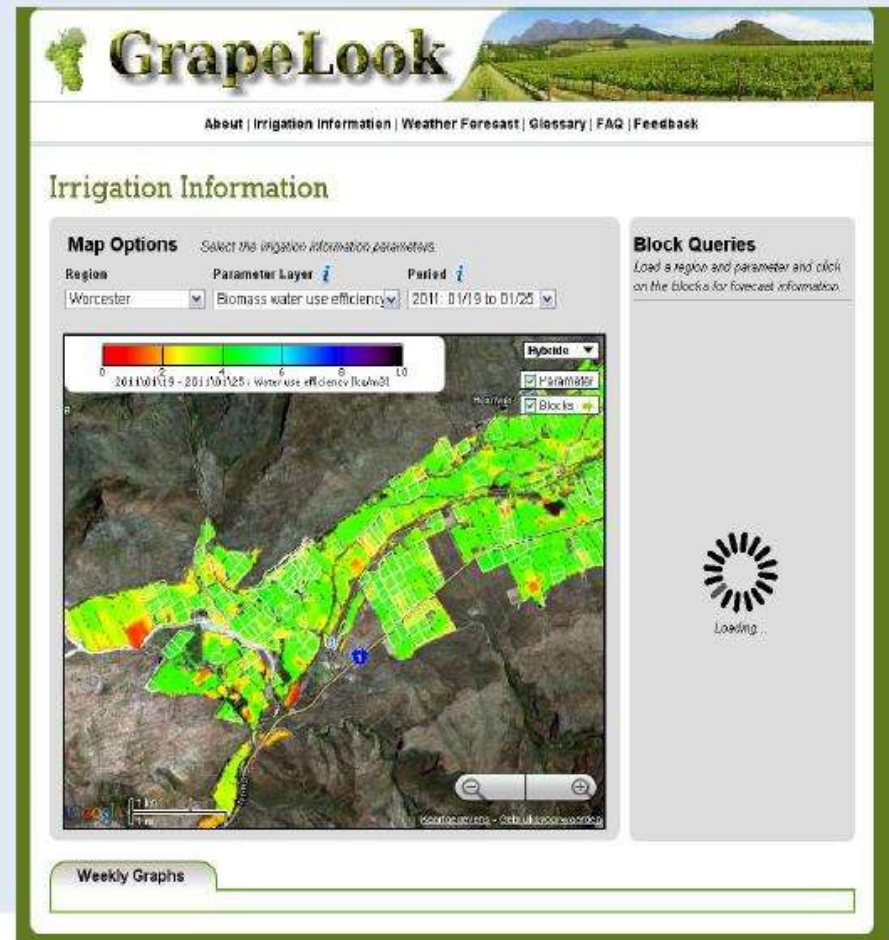


2009 Wheat water productivity (kg/m^3) in northwestern India

GrapeLook: improving efficient grape water and nitrogen use

- GrapeLook supports irrigation management decisions by agricultural producers by combining satellite technology and in situ measurements to deliver new sources of information to the Western Cape grape farmers
- Organisations involved: WaterWatch BV and University of KwaZulu-Natal
- Countries applied: South Africa

Balk_Binnensheet_blanco.jpg



More information:

Website: www.GrapeLook.co.za

Contact: Annemarie Klaasse (a.klaasse@waterwatch.nl)

Pesticide Risk Reduction Programme (PRRP)

- PRRP is collaborative programme on pesticide registration and post registration and it functions as a pilot project for other African countries / regions
- Organisation(s) involved: MoA Ethiopia, Alterra Wageningen UR, FAO, UNEP and more
- Countries applied: Ethiopia



More information:

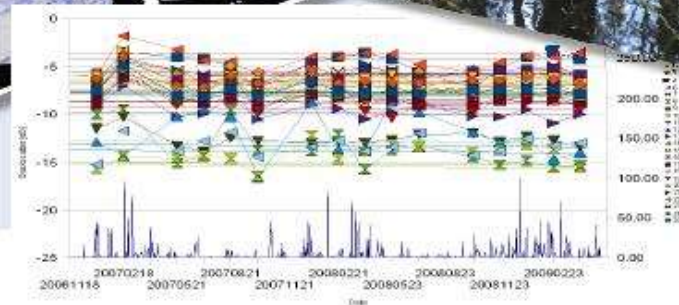
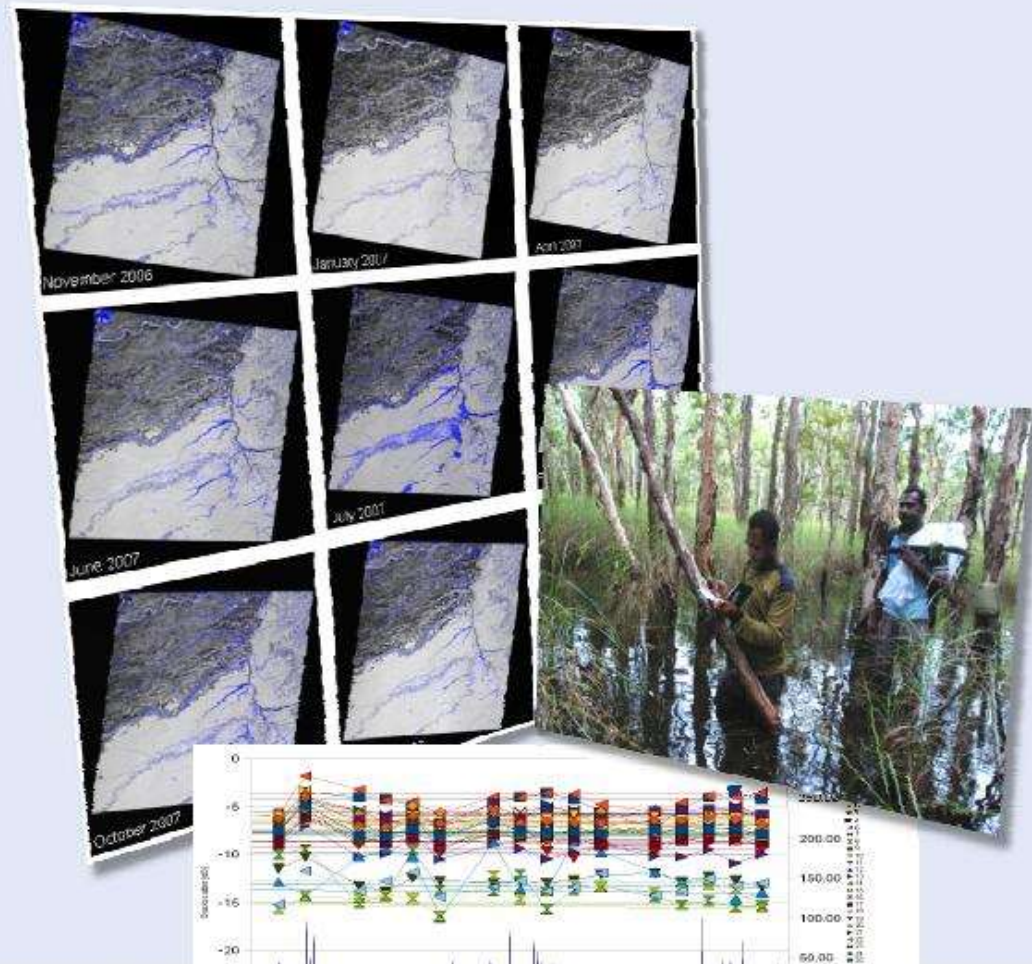
Website: <http://prrp-ethiopia.org>

Contact person: Floor Peeters

Email: floor.peeters@wur.nl

Flood extent and duration maps

- Description service:
 - Easy online access to bi-weekly flood extent and duration maps
 - Based on cloud-free 5-30m or 100m radar imagery
 - In support of spatial planning, (disaster) risk reduction and agricultural/agro-industrial plantation planning and management
- Organisation(s) involved:
SarVision together with users
- Countries applied:
South America, West and Central Africa, South East Asia



More information:

Website: www.sarvision.nl

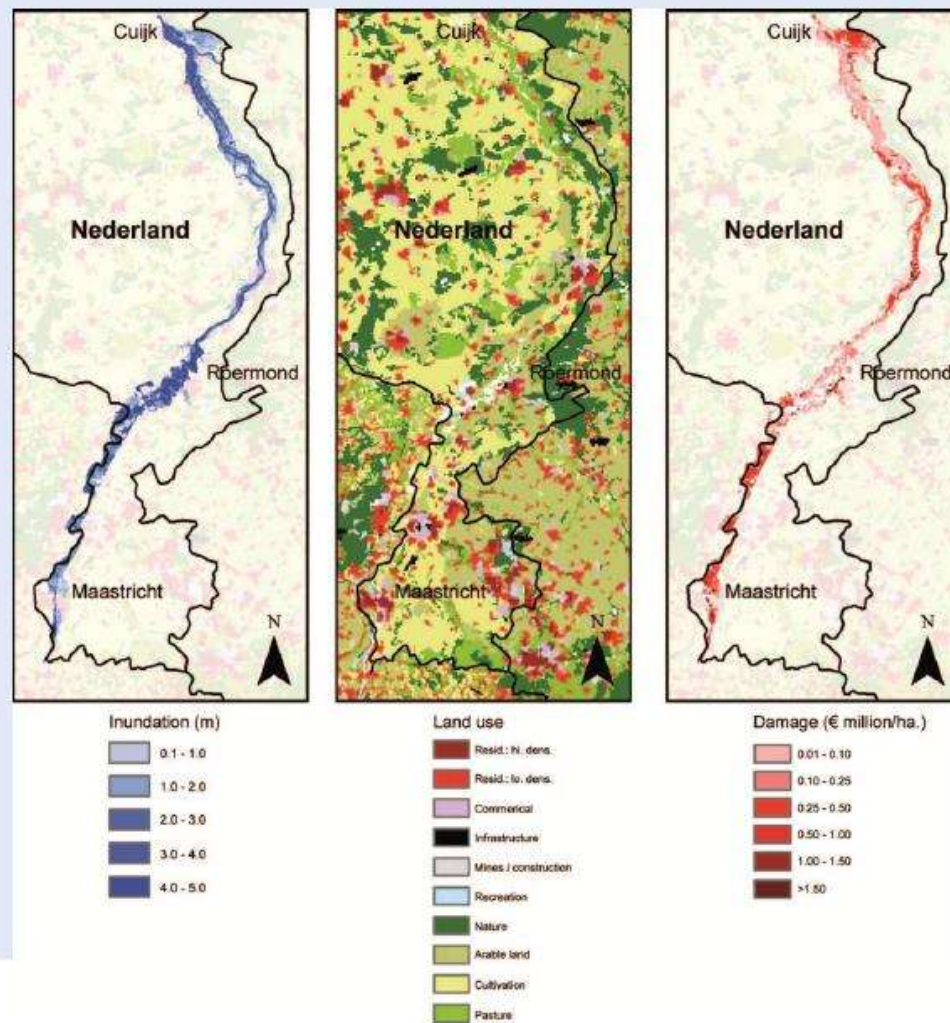


Contact: Niels Wielaard (wilaard@sarvision.nl)

Flooding map time series and satellite signal vs rainfall

Flood risk modelling

- GIS-based flood risk modelling tools (e.g. Damagescanner) to assess risk in terms of monetary damage and loss of lives.
- Organisation(s) involved: City of Jakarta, City of Rotterdam, Deltares
- Countries applied: Indonesia, Vietnam, Western Europe



More information:

Website: www.ivm.vu.nl/SPACE

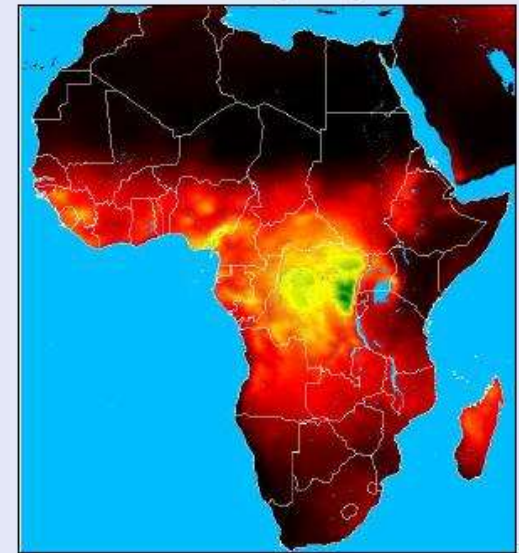
Contact person: Dr. Philip Ward

Email: philip.ward@ivm.vu.nl

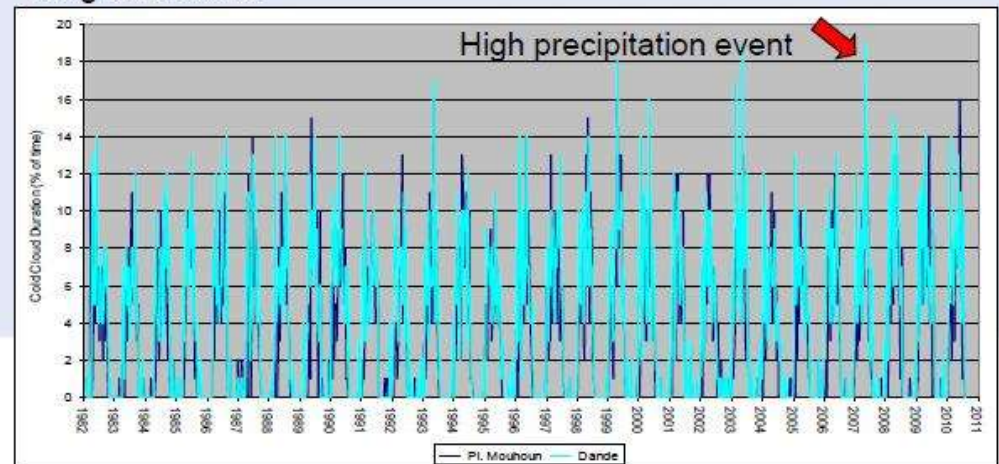
Crop Micro-Insurance

- Meteosat based flood and drought micro-insurance reaching every farmer in Africa
 - RE drought index
 - CCD flood index
 - 30 years of data
- Organisation involved: EARS
- Region applied: Africa

Risk of excessive precipitation



Long data series



More information:

Website: www.ears.nl

Email: andries.rosema@ears.nl

Training, consultancy and capacity building related to water & soil research

- A platform for knowledge exchange between experts, specialists, field technicians, project designers, team leaders, fieldworkers, farmers and policy-makers involved in water and soil research.
- Organisation involved: Eijkelkamp Training & Consultancy (part of the Royal Eijkelkamp Earth Sampling Group)
- Countries applied: Worldwide



More information:

Website: www.eijkelkamp.com

Contact person: Mrs. Marijgje Wijers

Email: etc@eijkelkamp.com



*Thank you
for your attention*

www.spaceoffice.nl

*Gateway to the
Netherlands space sector:*

www.spaceoffice.nl/spacedirectory

Photo 'the Netherlands by night' taken by Dutch ESA astronaut André Kuipers from ISS with 'night-pod system' developed by cosine