



UN-SPIDER:

Evidenz dissemination and recommended practices

EvIDENz mid-term workshop

21-22.09.2017

UN Campus, Bonn, Germany



Evidenz dissemination

- to Sendai framework related events, working groups and partnerships (e.g. GP-STAR)
- To UNCCD, UNFCCC environment
 - Africa Drought Conference, Windhoek declaration
 - Research dialogue, SBSTA, Climate Change Convention
- Testing of developed workflows
- Recommended practice
- Dissemination through Knowledge Portal



The Windhoek Declaration for Enhancing Resilience to Drought in Africa



PREAMBLE

We, the African Member States and Parties to the United Nations Convention to Combat Desertification (UNCCD), Ministers, Heads of Delegation and Experts, attending the High Level Meeting of the first African Drought Conference (ADC);

Having met in Windhoek, Namibia from the 15 - 19 August 2016;

UNITED NATIONS Office for Outer Space Affairs
UN-SPIDER KNOWLEDGE PORTAL
Space-based Information for Disaster Management and Emergency Response

Home | Space Application | Risks & Disasters | Laws & Treaties | Advisory Support | Network | Projects | News & Events | About Us

Advisory Support | Advisory Missions | Emergency Support

Recommended Practice: Drought monitoring using the Standard Vegetation Index (SVI)

Recommend by:



UN-SPIDER: Mission statement

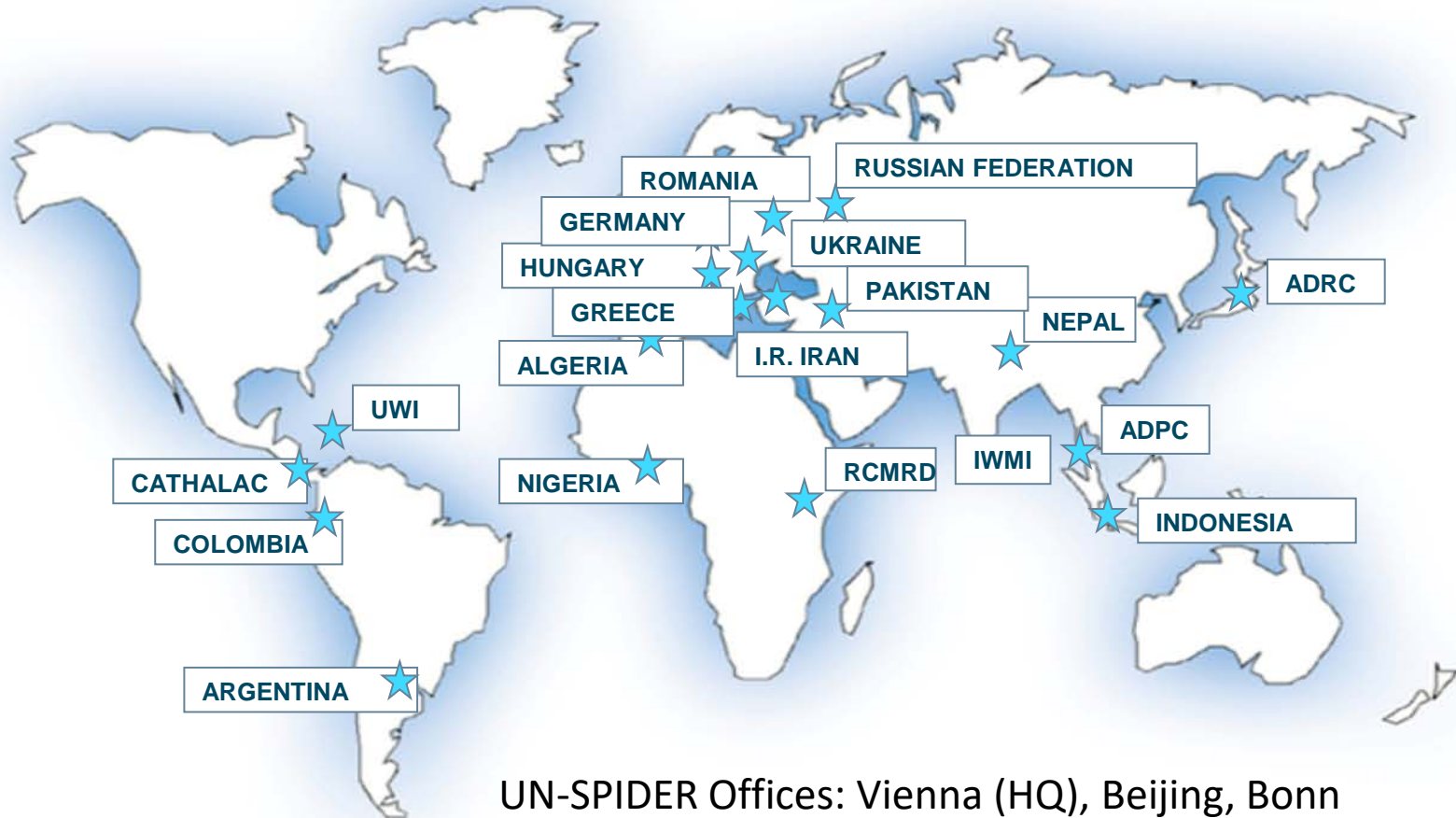


„Ensure that all countries have access to and develop the capacity **to use** all types of **space-based information** to support the **full disaster management cycle.**“

General Assembly Resolution 61/110 (2006)



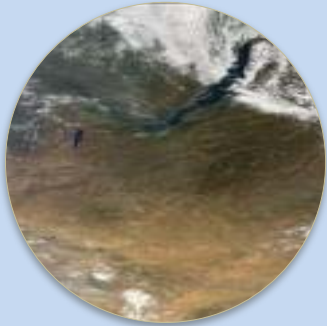
UN-SPIDER Network of Regional Support Offices



UN-SPIDER Offices: Vienna (HQ), Beijing, Bonn
6 Space Training Center, ~46 National Focal Points



Key tasks



Technical Advisory Support

UN-SPIDER provides support to countries in assessing national capacity and in evaluating disaster and risk reduction activities, policies and plans



Knowledge Portal

The UN-SPIDER Knowledge Portal is a web-based tool for information, communication and process support



Capacity Building

UN-SPIDER facilitates capacity building and institutional strengthening, including the development of curricula and an e-learning platform (e-SPIDER)



Fostering Cooperation

UN-SPIDER fosters alliances and creates forums where both space and disaster management communities can meet

and many more...



UNITED NATIONS
Office for Outer Space Affairs

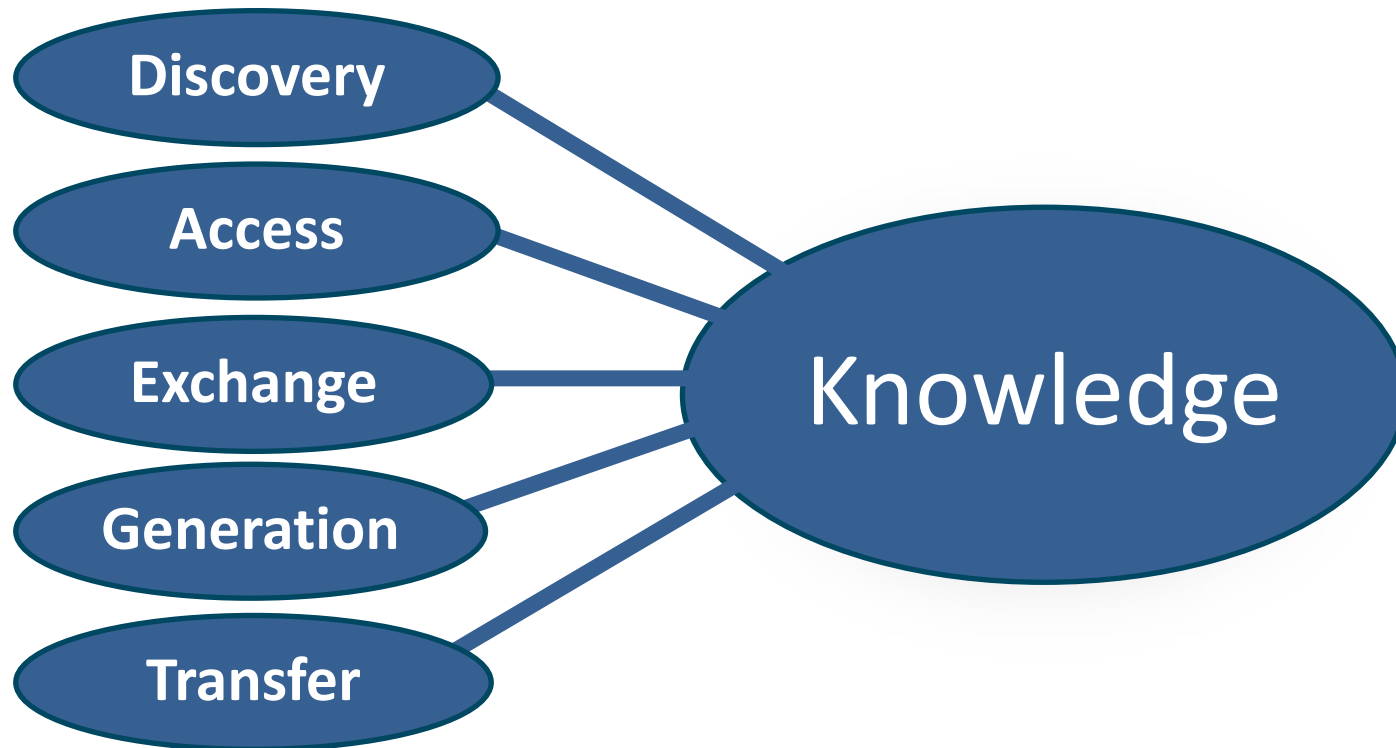
UN-SPIDER Bonn Office



Focusing on **Knowledge Management** to enable Member States to generate and use **space-based information** in all phases of the **disaster management cycle**



Knowledge Management efforts





Discovering relevant knowledge and information

Discovery

- **Finding and extracting information from selected websites and portals (space agencies, disaster management organizations, partners, news webpages, etc);**
- **Discovering information from publications and documents from partner institutions.**



Facilitating access to knowledge and information

Access



Newsletters and publications

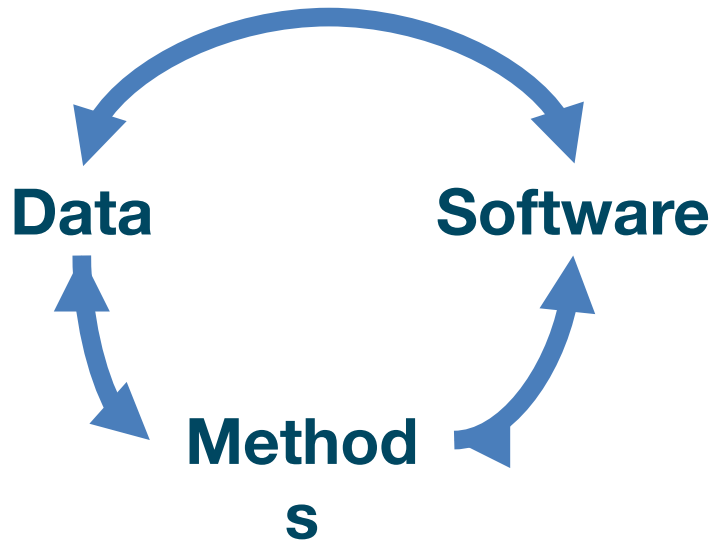


**UN-SPIDER
Knowledge Portal**

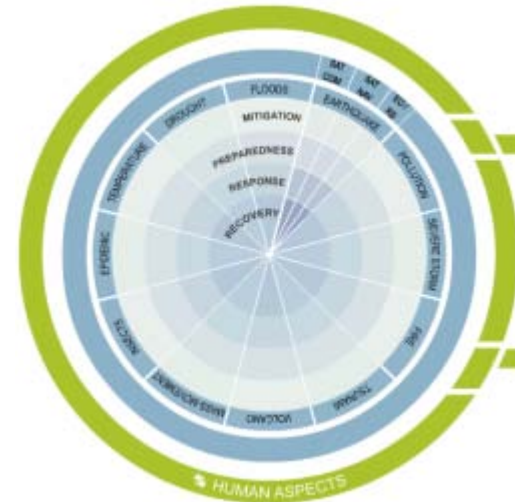


Facilitating access to data, information and knowledge

Links and Resources



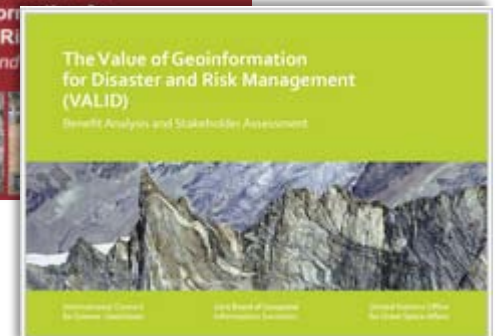
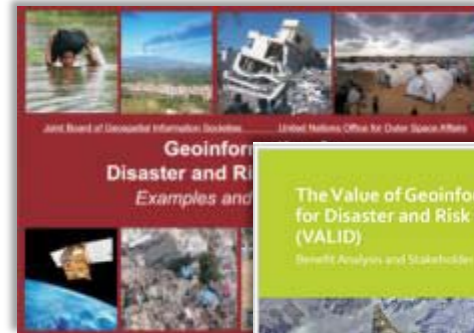
Space Application Matrix





Awareness raising

- Participation in events organized by partners;
- Mobilization of experts to events organised by partners;
- Participation in networks (IWG-SEM, IN-MHEWS, etc);
- Publication of Newsletters, monthly updates, Booklets; and
- Social media efforts





Facilitating the Exchange of Knowledge

Discovery

Access

Exchange

Generation

Transfer



**Conferences, Workshops,
Expert Meetings**



Facilitating the Generation of Knowledge

Discovery

Access

Exchange

Generation

Transfer

UN-SPIDER Knowledge Portal
http://www.un-spider.org/practices

Recommended Practice xyz

recommended by:
Logo RSO Logo partner Logo partner Logo partner

Input data

Explanations and recommendations

Step-by-step in software abc

Algorithms/Processing steps

Example of information generated using this practice

Resulting data product/ map

Real life example
Interview, case study or Featured article how the data product has been used in concrete examples of disaster risk management or emergency response
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Questions? Feedback?
Get in touch by using our [contact form](#) or writing directly to the contact persons:
Main contact: ...
Alternate Contact: ...
Address: ...

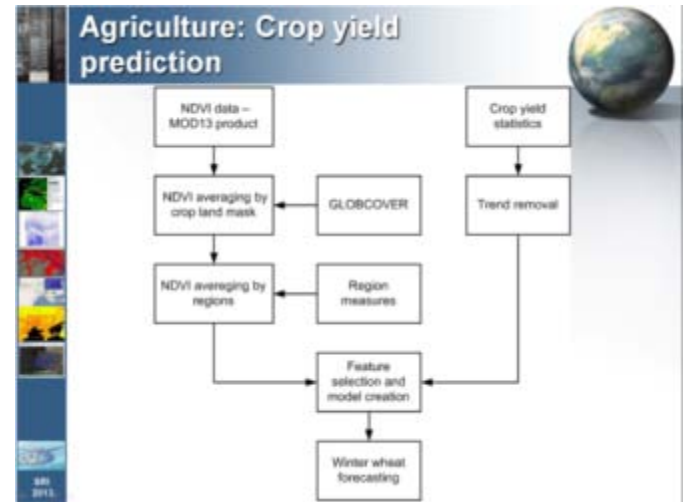
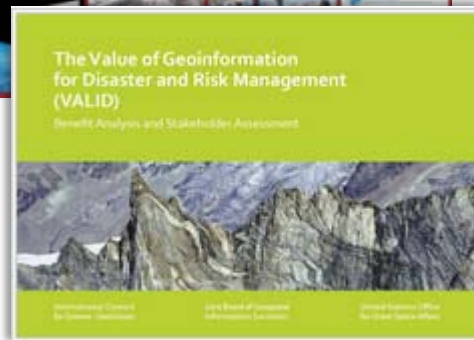
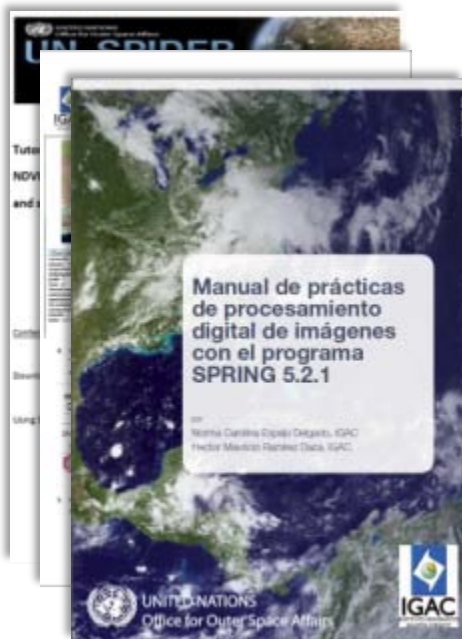
You might also be interested in:
[Recommended Practice abc](#)
[Recommended Practice 123](#)
[Data](#)
[Software](#)
[Space Application Matrix](#)
[Organizational Mechanisms](#)
[RSO network](#)

Disclaimer

↑
RSOs



Facilitating the Generation of Knowledge



Training material & tutorials

Publications

Recommended practices



Access to Knowledge

Geoinformation for Hazard, exposure, vulnerability, and risk assessment

Geoinformation for Early Warning systems

Recommended Practice on Flood Hazard Mapping

Recommended Practice on Drought Monitoring

Prevention and Mitigation → Preparedness

Disaster management cycle

Disaster

Recovery

Response

Geoinformation for Post Disaster Needs Assessment (PDNA)/ Damage and Loss Assessment (DaLA)

Geoinformation for Rapid mapping: Extent and impact

Recommended Practices on Flood Extent Mapping, exposure assessment, burnt severity



Knowledge Transfer

Discovery

Access

Exchange

Generation

Transfer



Training courses



From Science to Practice...

How can I apply these methods?

Where do I get the data and software?

Are the methods robust?

Is the method transferable, i.e. can I apply it
in my country?

Do I have sufficient capacity and resources to
apply the method?

How accurate and reliable are the results?

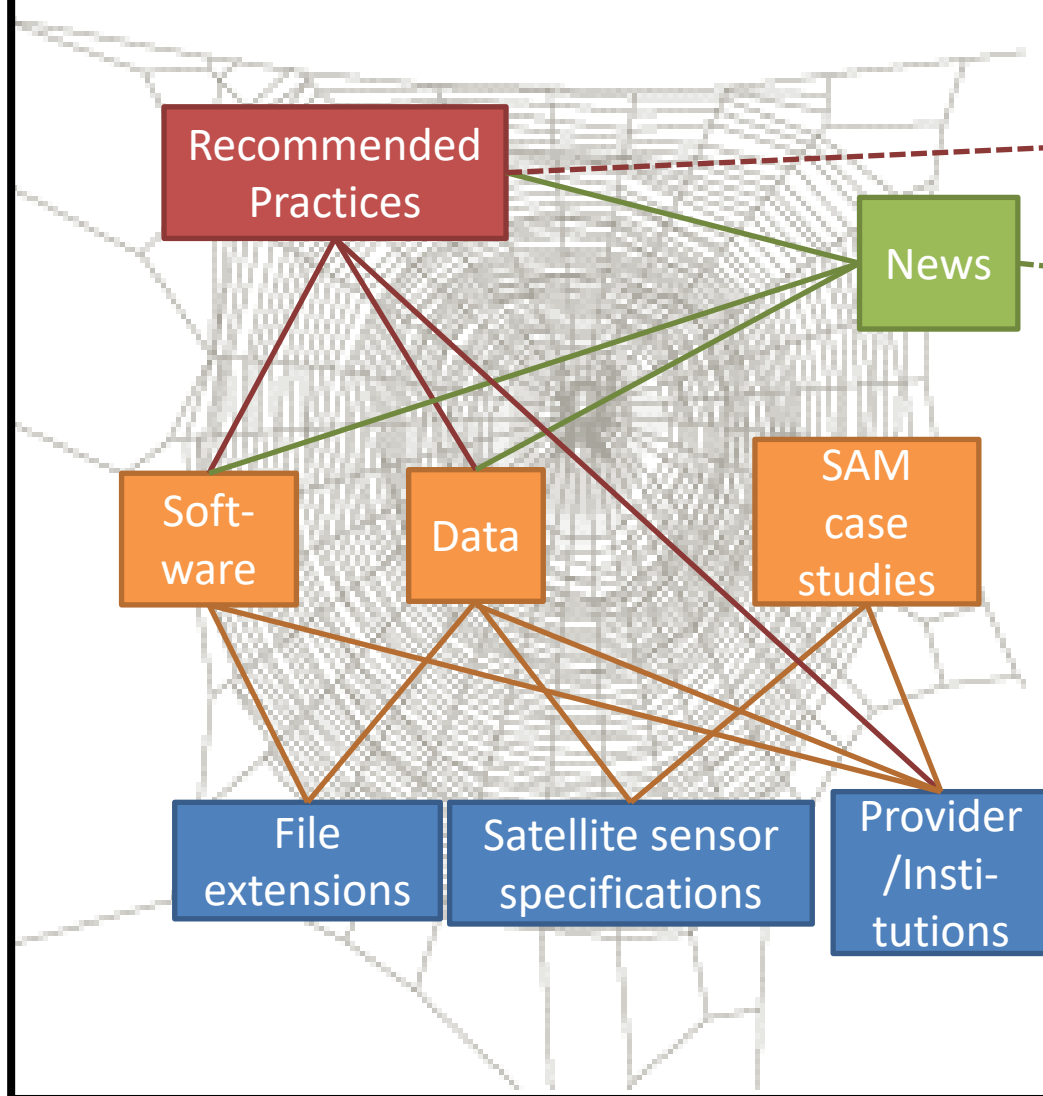
How do I interpret the resulting image?

...?





Recommended Practices on the Knowledge Portal



UN-SPIDER
training events

Social
Media

- 104 published data sources
- 107 software items
- 199 SAM case studies
- 106 satellite sensor specifications
- 1878 news
- 375 institutions
- 2 recommended practices finalized

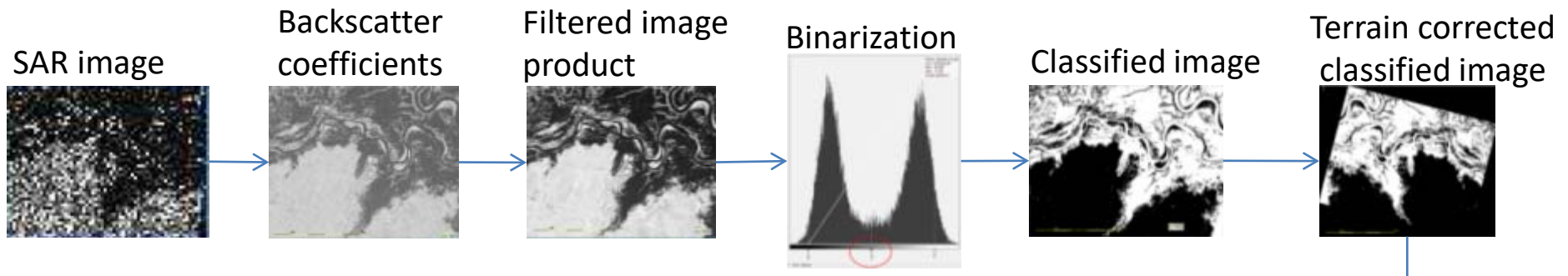




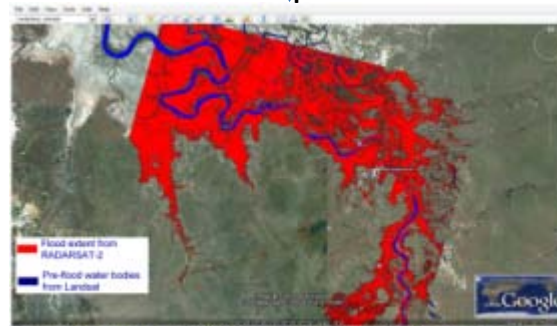
Recommended Practice Flood Extent Mapping

How can I create a flood extent map based on SAR data using free software?

Recommended practices by UN-SPIDER's Ukrainian Regional Support Office provides step-by-step instructions.



Flood Extent Map



RADARSAT-2 Data and Products © MacDonald, Dettwiler and Associates Ltd. 2008 - All Rights Reserved. RADARSAT is an official mark of the Canadian Space Agency.





Flowchart



Recommended Practice: Drought monitoring using the Vegetation Condition Index (VCI)

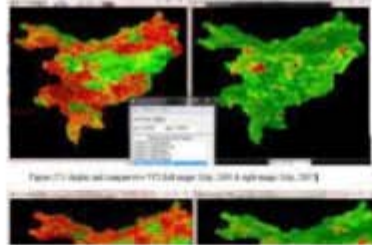


Figure 11: Drought monitoring using VCI (MODIS Vegetation Product, 2014)

Drought monitoring is an important component in drought early warning systems. This practice shows how to monitor the impacts of meteorological drought on natural vegetation using MODIS optical satellite imagery.

[Step by Step](#)

[In Detail](#)

Objective:

The purpose of this recommended practice is to monitor impacts of meteorological drought on natural vegetation (rain fed, range land & forest). Availability, simplicity, free of charge data, good research literature and citation, minimum requirements of inputs are main criteria, which have been considered to define the methodology.

Disaster Cycle Phase:

Recommended by:

وزارت اطلاعات و فناوری اطلاعات



Related Practices

[Recommended Practice: Flood Hazard Mapping](#)

Related data

[MODIS Vegetation Product \(NASA\)](#)
[Crop monitoring - GEOGLAM \(GEO\)](#)
[view all](#)

Related Software



GP-STAR Terms of Reference

Purpose of GP-STAR:

- is to facilitate the use of Earth Observation as well as satellite-based technology and application ... for application in the context of the Sendai Framework for Disaster Risk Reduction 2015-2030 (Sendai Framework)

Partners (29):





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GP-STAR & brochure

<http://un-spider.org/network/gp-star-brochure>

http://un-spider.org/network/post2015_drr





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UNISPACE
+50

Invitation to
Conference

Nov 22-24, 2017

Bonn, Germany



United Nations/Germany
International Conference
International Cooperation Towards
Low-emission and Resilient Societies



UNITED NATIONS
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Federal Ministry
for Economic Affairs
and Energy

22-24 November 2017

United Nations Campus,
Bonn, Germany

 Registration

Dissemination

- at relevant events
- using UN-SPIDER networks
- Knowledge Portal
- Testing of workflows
- Recommended practices
- Use in technical advisory support, if appropriate
- Awareness raising

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Acknowledgment

We would like to acknowledge:

BMWi for funding the EvIDENZ project

Raumfahrtmanagement at DLR
for facilitating the process