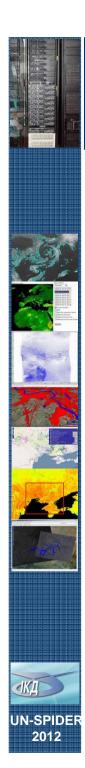
## Activities of UN-SPIDER RSO in Ukraine in 2011

N. Kussul, A. Shelestov, S. Skakun

Space Research Institute NASU-NSAU

3rd Annual UN-SPIDER Regional Support Offices Meeting 6-7 February, 2012 Vienna, Austria

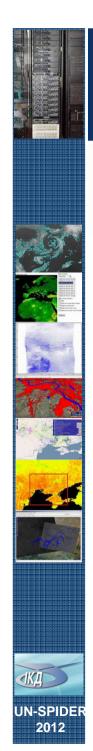




#### Activities in 2011

- Outreach and Capacity Building
  - Establishment of a
    Web portal for UN SPIDER RSO in
    Ukraine
    - Events
    - Activities
    - Services
    - Workplan & Report
    - Training
    - Publications





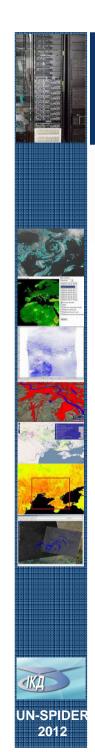
- Outreach and Capacity Building
  - Participation in United Nations International Conference on Space-based Technologies for Disaster Risk Management "Best Practices for Risk Reduction and Rapid Response Mapping"
    - 22 to 25 November 2011, Beijing, China (under support from UN-SPIDER)
    - Presentation on "The use of satellite data and geospatial intelligence for flood risk assessment at UN-SPIDER RSO in Ukraine"



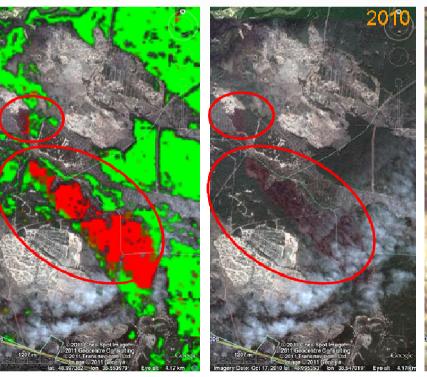




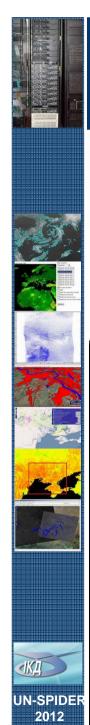
- Outreach and Capacity Building
  - Contribution to UN-SPIDER Newsletter
    - September 2011
    - Topic: flood hazard mapping methodology
  - Scientific publications
    - Paper on Namibian SensorWeb project in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS)
    - Kussul N., Mandl D., Moe K., Mund J.-P., Post J., Shelestov A., Skakun S., Szarzynski J., Van Langenhove G., Handy M. "Interoperable Infrastructure for Flood Monitoring: Sensor Web, Grid & Cloud" (accepted)



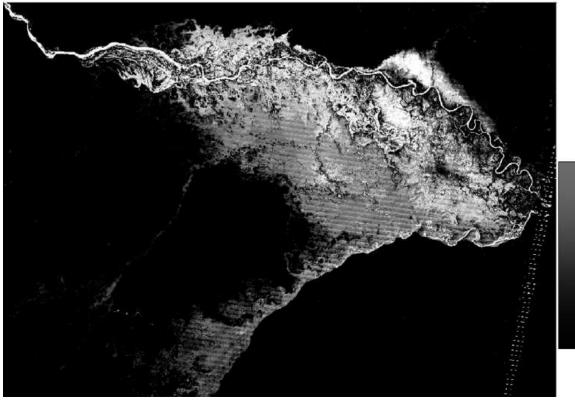
- Horizontal Cooperation
  - Rapid mapping of potential deforestation areas
  - Area: Lugansk oblast, Ukraine
  - State Agricultural Inspection of Ukraine
  - Estimated deforestation area: 2300 ha





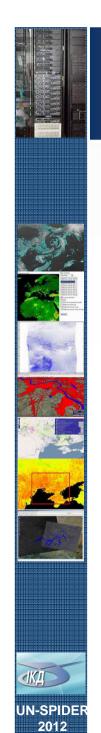


- Technical Advisory Support
  - Participation in the Namibian SensorWeb project
  - Flood hazard mapping
    - Statistical processing of Landsat-5/7 images time-series
    - Probability of inundation (PI) map



PI for the Katimu Mulilo region, Namibia. The map is produced by integrating a timeseries of Landsat TM/ETM+ scenes from 2000-2010. In total 44 scenes were processed.

100%



# Sich-2 Earth Remote Sensing Satellite

 First Ukrainian ERS within new National Space Program

- Optical
  - VNIR (8 m),SWIR (40 m)
  - 48.8 km swath
  - Inclination angle: ± 30°
- Launched17 August 2011
  - Ukrainian Dnipro launcher



