Activities of UN-SPIDER RSO in Ukraine in 2014

N. Kussul

Space Research Institute NASU-SSAU, Ukraine

6th Annual UN-SPIDER Regional Support Offices Meeting
5-6 February, 2014
Vienna, Austria

Activities in 2014
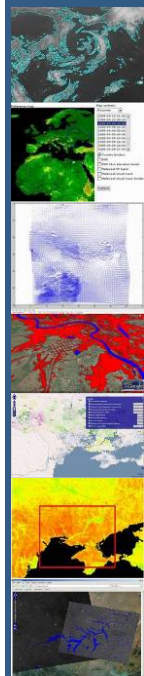
- ***Outreach and Capacity Building***
    - **GEO-UA 2014 Conference** on
      "Earth observations for sustainable
      development and security"
      (May 26-30,
      2014, Kyiv, Ukraine);

    - Recommended practices
      elaboration and preparation
      for publishing on UN-SPIDER portal;
    - *Scientific publications*
        - S. Skakun, N. Kussul, A. Shelestov, O. Kussul. **Flood Hazard
          and Flood Risk Assessment Using a Time Series of Satellite
          Images: A Case Study in Namibia** // *Risk Analysis. – 2014. –
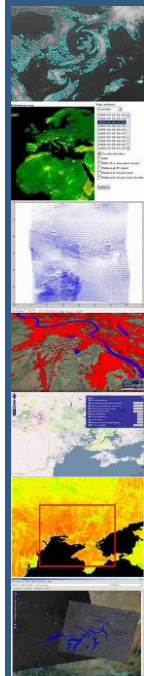   Vol. 34, No. 8. – doi: 10.1111/risa.12156. – P. 1521 – 1537.*

Activities in 2014 – cont'

- ## *Outreach and Capacity Building*
  - *Scientific publications*
    - N. Kussul, A. Shelestov, S. Skakun, G. Li, O. Kussul, J. Xie. **Service-oriented infrastructure for flood mapping using optical and SAR satellite data** // *International Journal of Digital Earth . – 2014. – Vol. 7, No. 10 – P. 829 – 845.*
    - J. Gallego, N. Kussul, S. Skakun, O. Kravchenko, A. Shelestov, O. Kussul. **Efficiency assessment of using satellite data for crop area estimation in Ukraine** // *International Journal of Applied Earth Observation and Geoinformation. – 2014. – No. 29. – P. 22 – 30.*
    - N. Kussul, S. Skakun, A. Shelestov, O. Kussul and B. Yailymov. **Resilience Aspects in the Sensor Web Infrastructure for Natural Disaster Monitoring and Risk Assessment Based on Earth Observation Data** // *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. – 2014. – Vol. 7, No. 9 – P. 3826 – 3832.*
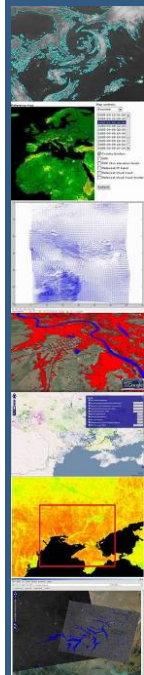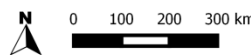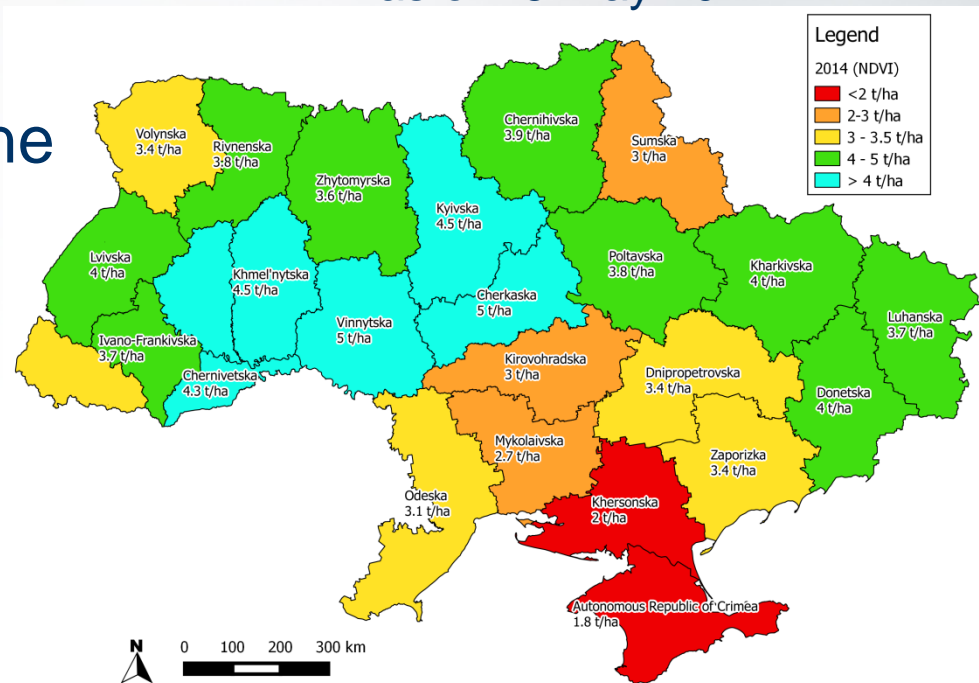
- ***Horizontal Cooperation***
  - Operational forecasting of winter wheat yield in Ukraine for 2014 based on Earth observation
  - Results delivered to the Department of Agriculture of Ukrainian Hydrometeorological Center

as of 25 May 2014

Legend
2014 (NDVI)

- <2 t/ha
- 2-3 t/ha
- 3 - 3.5 t/ha
- 4 - 5 t/ha
- > 4 t/ha

Volynska 3.4 t/ha
Rivnenska 3.8 t/ha
Zhytomyrska 3.6 t/ha
Chernihivska 3.9 t/ha
Sumska 3 t/ha
Lvivska 4 t/ha
Khmel'nytska 4.5 t/ha
Kyivska 4.5 t/ha
Poltavska 3.8 t/ha
Kharkivska 4 t/ha
Cherkaska 5 t/ha
Luhanska 3.7 t/ha
Ivano-Frankivska 3.7 t/ha
Vinnytska 5 t/ha
Chernivetska 4.3 t/ha
Kirovohradska 3 t/ha
Dnipropetrovska 3.4 t/ha
Donetska 4 t/ha
Mykolaivska 2.7 t/ha
Zaporizka 3.4 t/ha
Odeska 3.1 t/ha
Khersonska 2 t/ha
Autonomous Republic of Crimea 1.8 t/ha

N
0   100   200   300 km

2014

4

Thank You!