

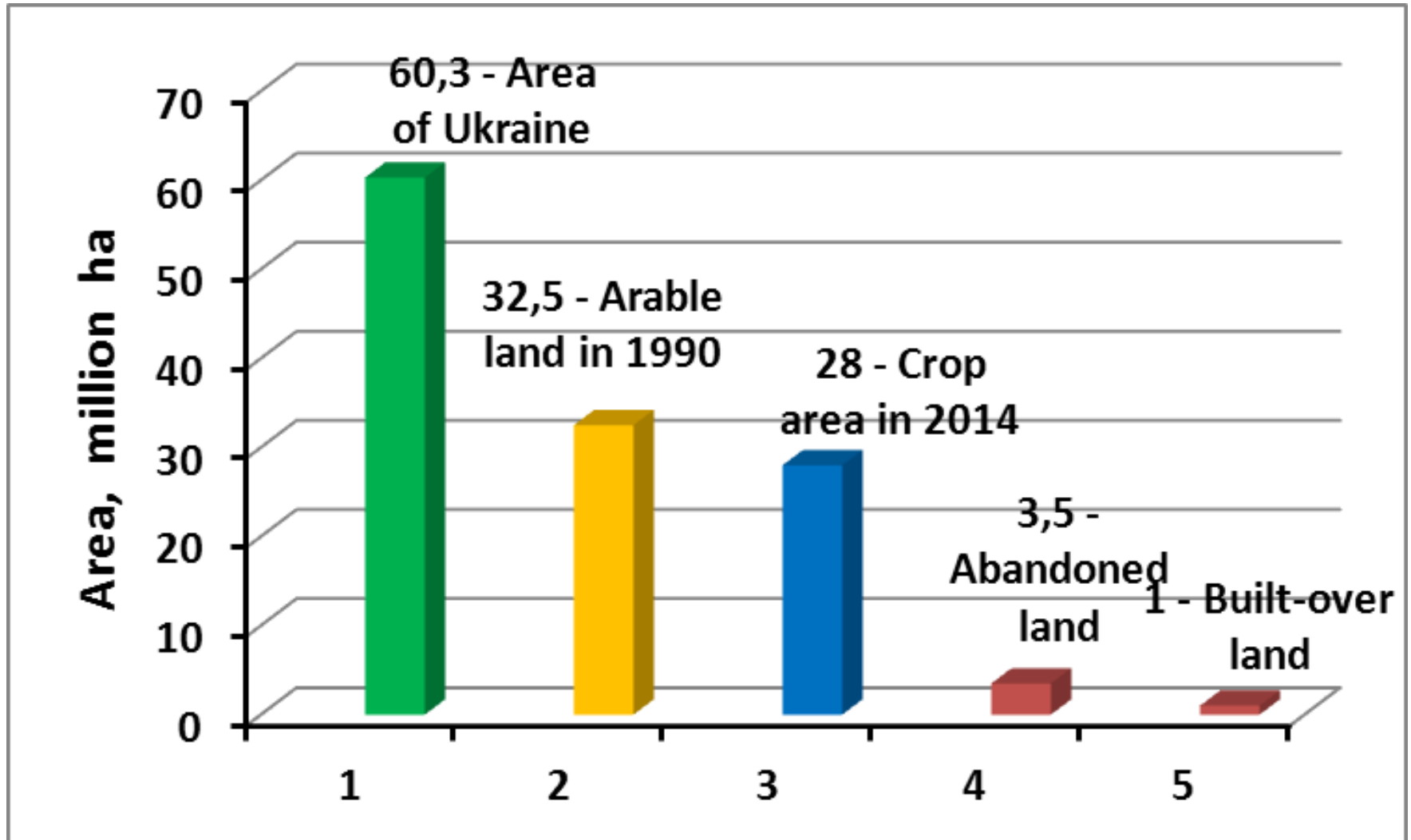
**UKRAINE ↔ SCERIN**

**Vladimir Starodubtsev**

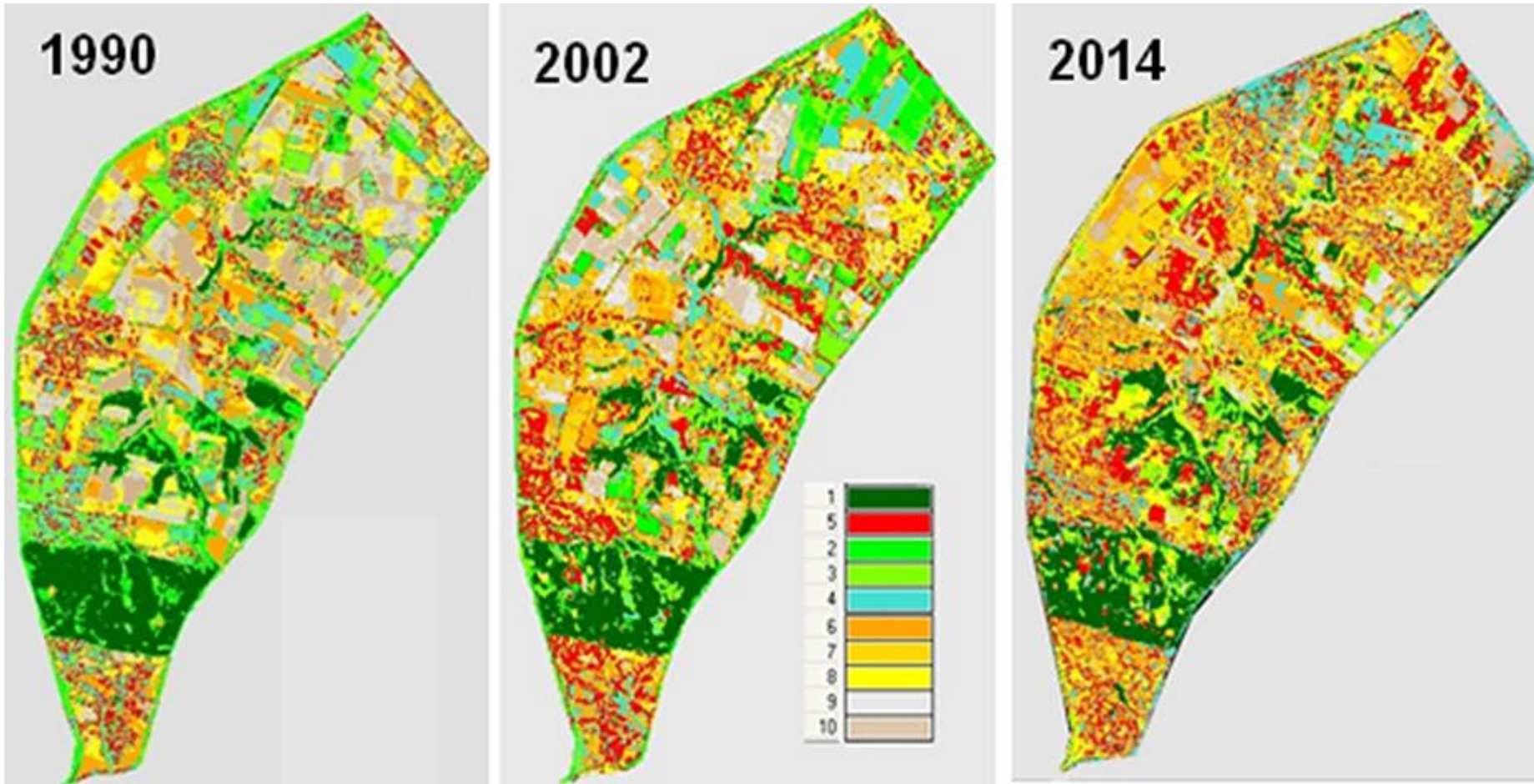
**National University of Life and  
Environmental Sciences**

**BRASOV - 2015**

# Abandoned arable land in Ukraine



# Arable land transformation in Kiev region (experimental plot)



# Land transformation on the experimental plot

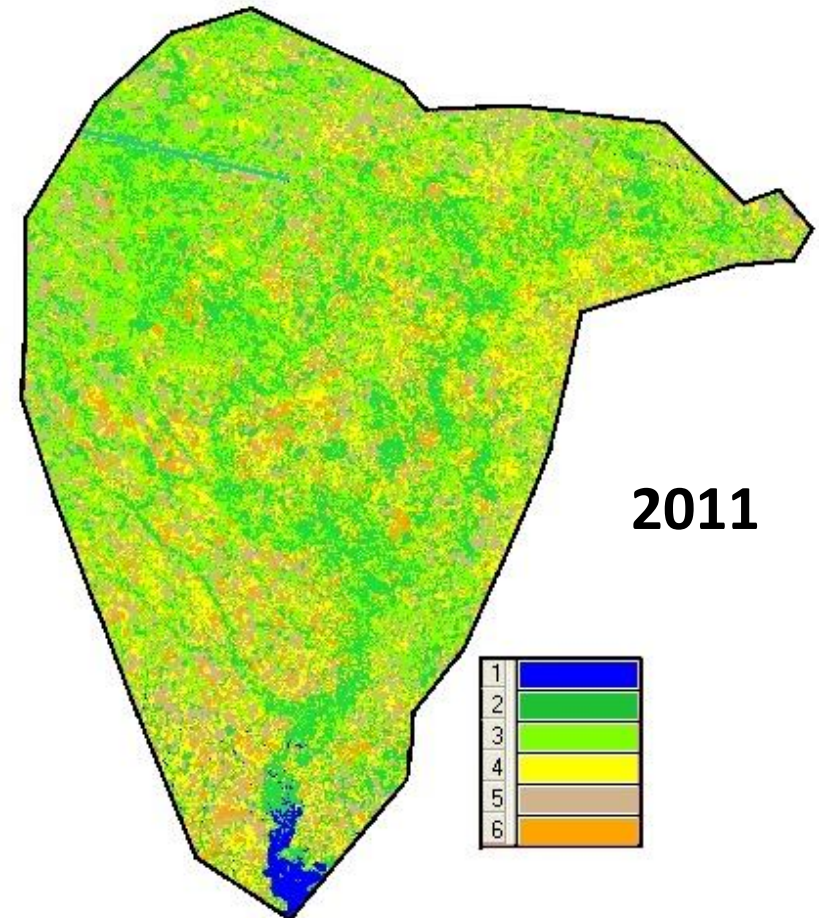
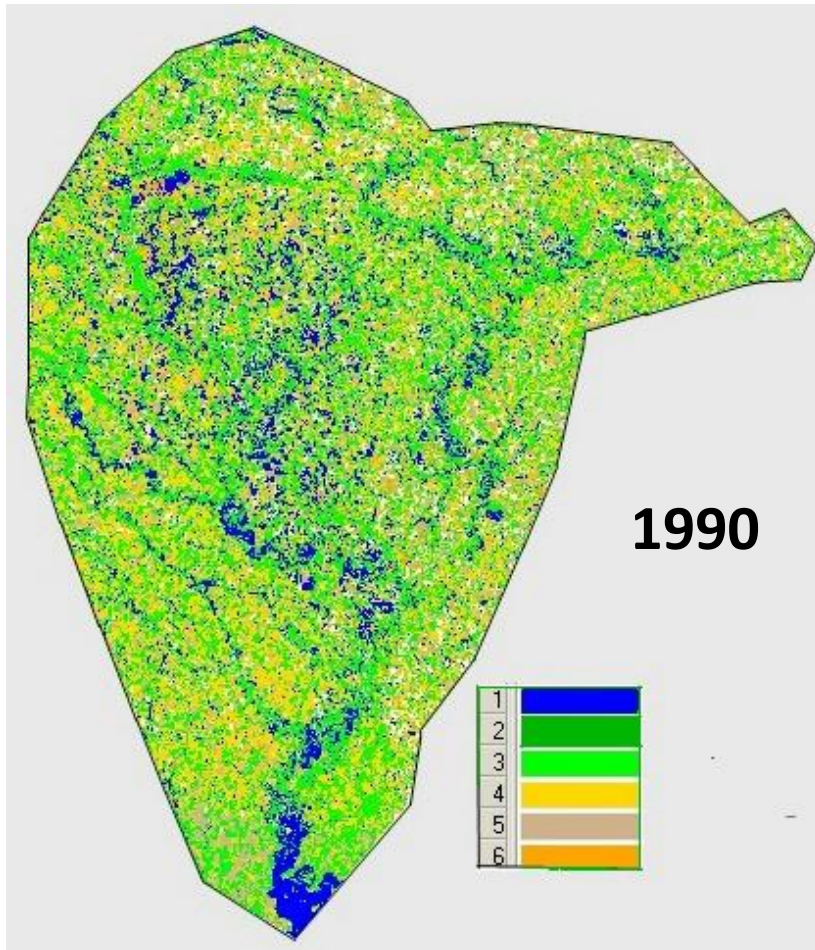
<b>Grounds</b>	<b>Years</b>			<b>Difference</b>	
	<b>1990</b>	<b>2002</b>	<b>2014</b>	<b>Ha</b>	<b>%</b> <b>%</b>
<b>Built-over land</b>	<b>940</b>	<b>1434</b>	<b>1690</b>	<b>+ 750</b>	<b>+ 80</b>
<b>Forest</b>	<b>1016</b>	<b>912</b>	<b>1102</b>	<b>+ 86</b>	<b>+ 8</b>
<b>Arable land</b>	<b>6093</b>	<b>5595</b>	<b>5138</b>	<b>- 955</b>	<b>- 16</b>
<b>Meadow and pasture</b>	<b>713</b>	<b>821</b>	<b>832</b>	<b>+119</b>	<b>+ 17</b>
<b>Total</b>	<b>8762</b>	<b>8762</b>	<b>8762</b>	<b>-</b>	

# Arable land overgrow and development



# Land cover changes in river basin with intensive oil extraction

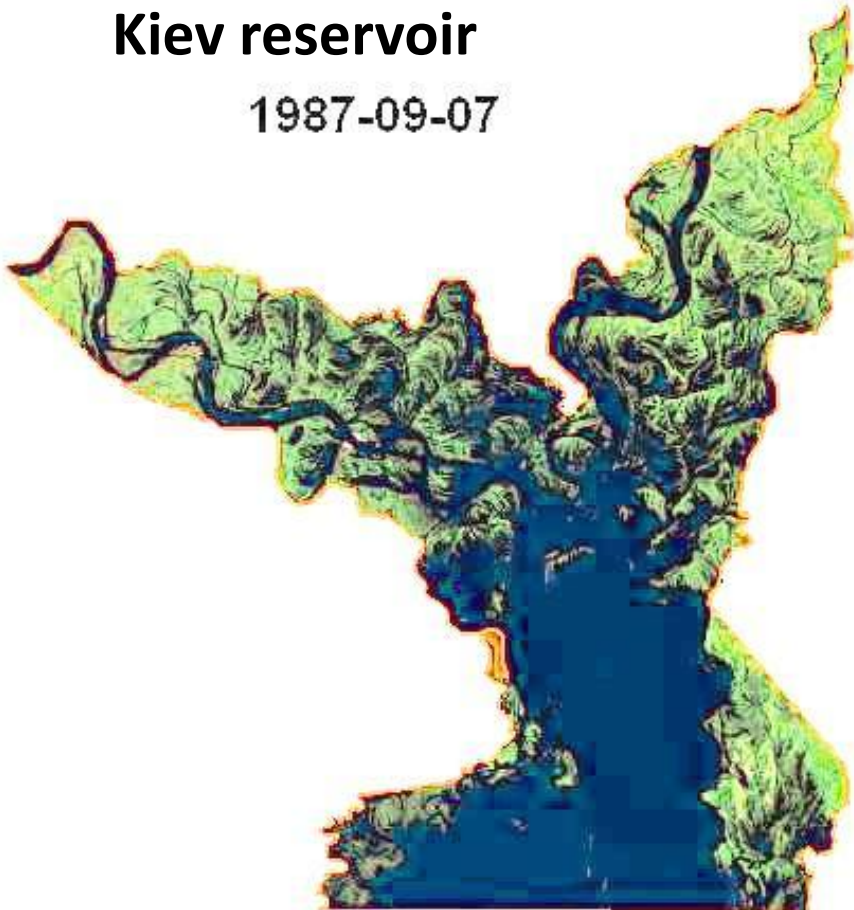
(detail information – in poster)



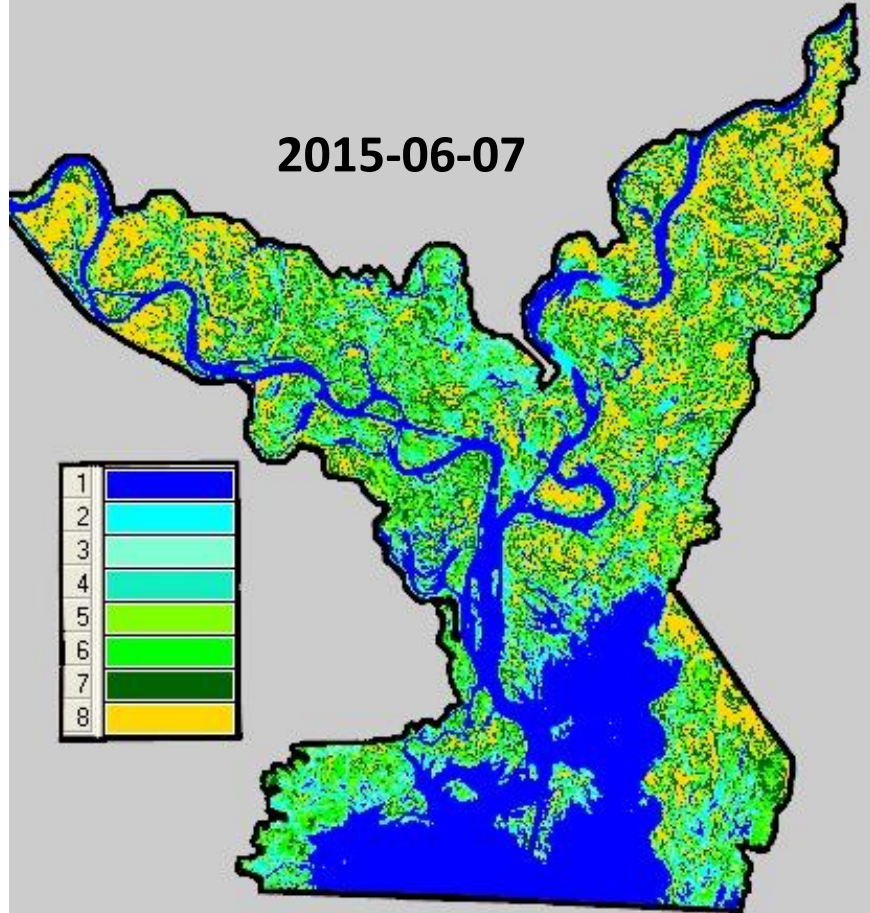
# New wetlands formation in large water reservoirs

Kiev reservoir

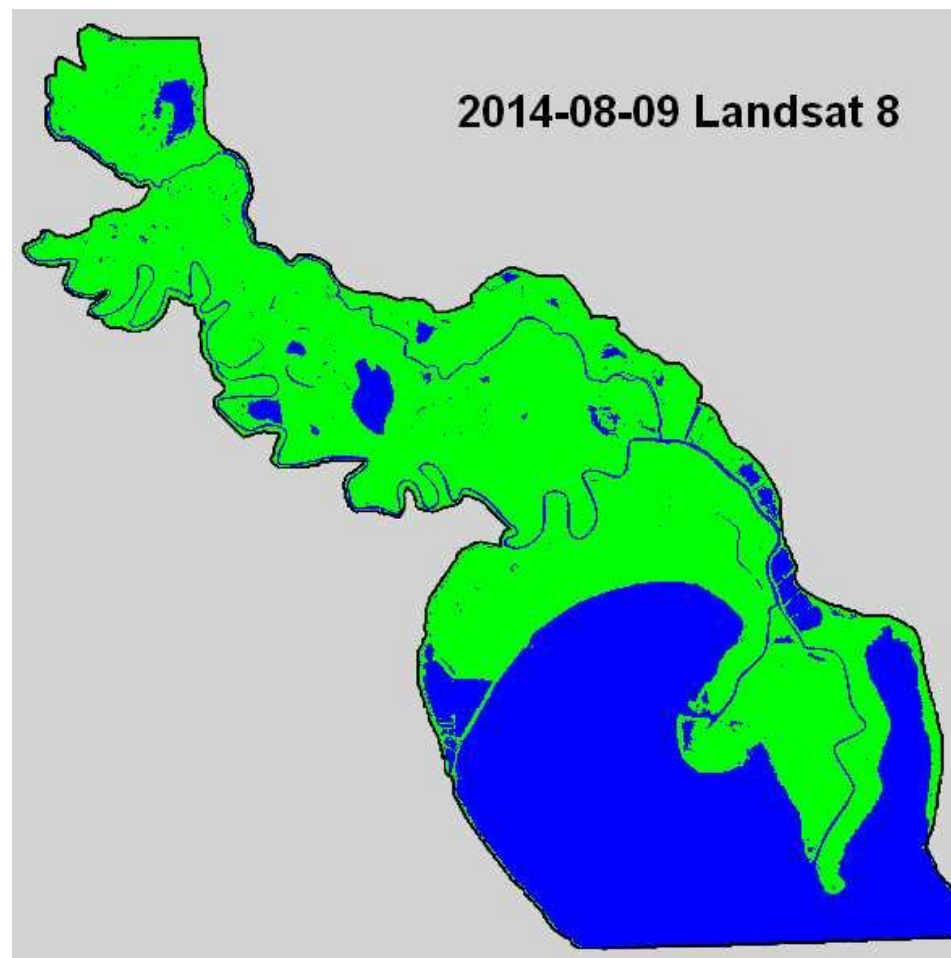
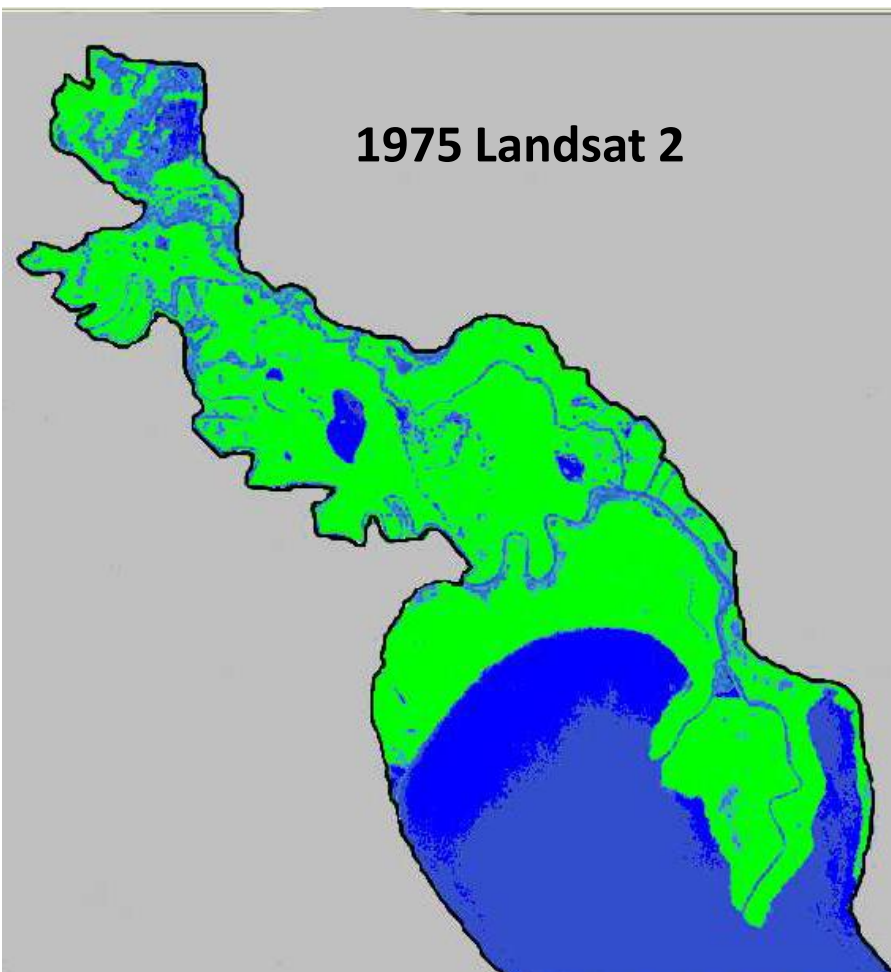
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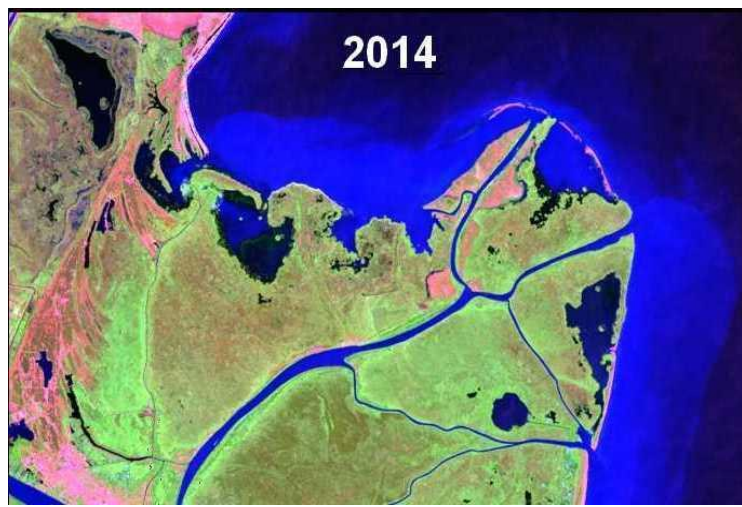
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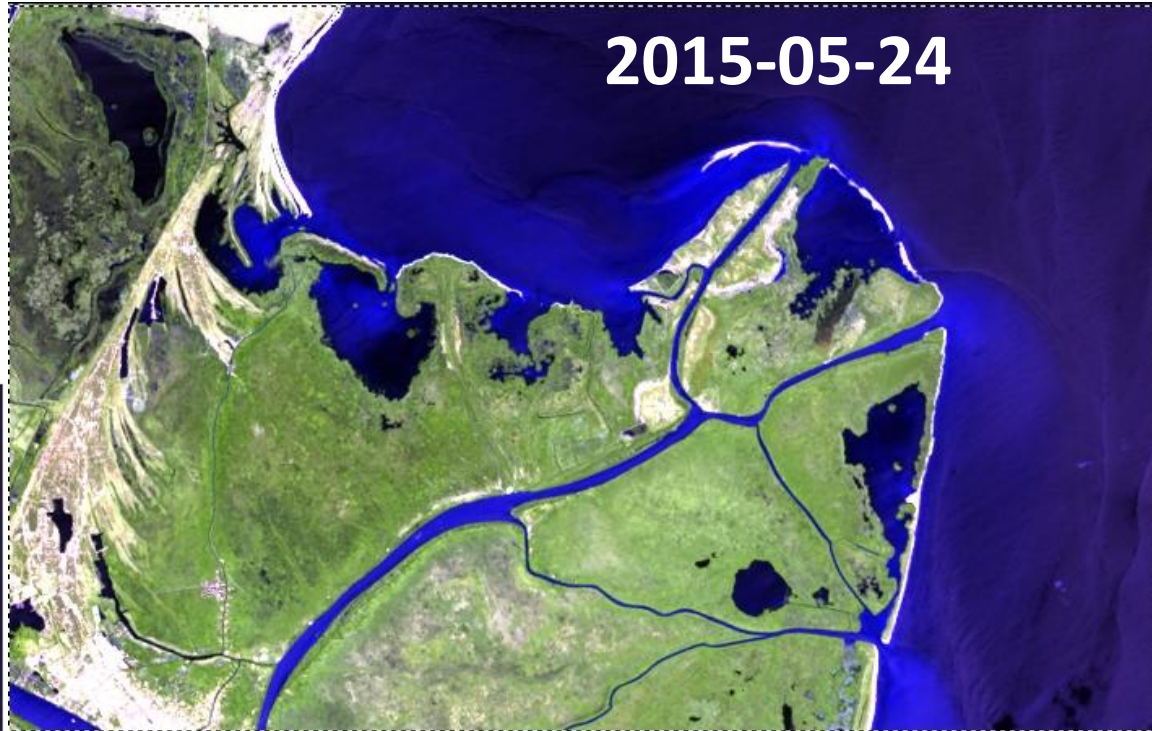
# Land cover changes in river deltas of the Black Sea basin (Dniester river delta as an example)







# Danube delta: key 4 (Ukraine)



# Remote sensing in Ukraine

- State institution "**Scientific Centre for Aerospace Research of the Earth**, Institute of Geological Science, National Academy of Sciences of Ukraine“:
- *Inventory of crops;*
- *Assessment of farmland (phenological observations, security crop fertilizers, moisture, determination of biomass and productivity);*
- *Forecasting yields.*

# Pryroda State Research and Production Centre

Pryroda State Research and Production Centre : Pryroda's main activities are:

- ordering, processing, storing and distributing earth remote sensing information;
- scientific-and-research and industrial works upon improvement and implementation of remote technologies in nature management and environment monitoring;
- estimation of information abilities of various air-space images in environment study and monitoring; development of requirements on conditions and parameters of new aerospace imaging of the Ukrainian territory;
- geological mapping;
- development of digital subject maps on the basis of GIS/EO technologies;
- development of reference data on earth remote sensing and environment monitoring;
- analyse, generalisation and dissemination of experience; development of measures on more effective use of airspace information in the various sectors of economy;
- primary and further training of earth remote sensing personnel;
- provision of science and engineering information;
- preparation and publication of scientific works on earth monitoring and other informational production; informational, marketing, and consulting service.