

The results of the implementation of remote sensing in the water sector of Central Asia.

Scientific Information Center of the Interstate Commission for Water Coordination Central Asia (SIC ICWC)

1970-80 - the development of aerial photography



1

2

The first works of LANDSAT 1999.



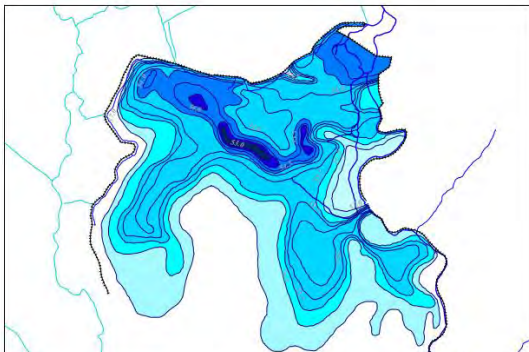
3

Deciphering fields by crop, 1999

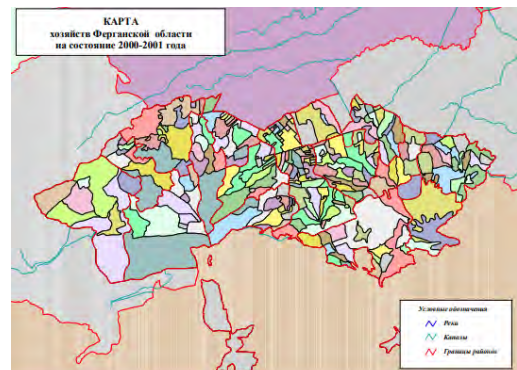


4

Siltation of the Mezhdurechensk Reservoir in the Amu Darya Delta

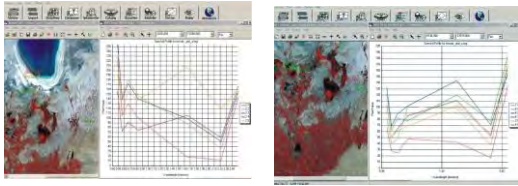


5



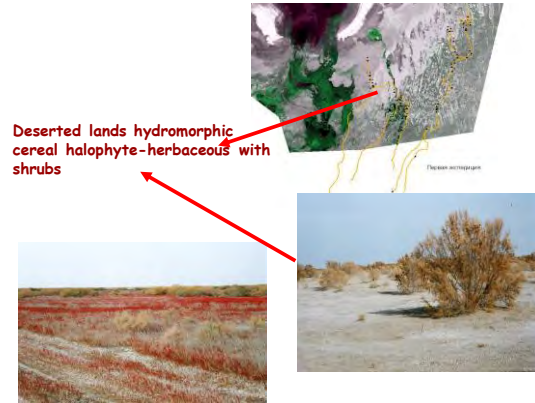
6

Work on creating a surface and risk map on the bottom of the Aral Sea 2006



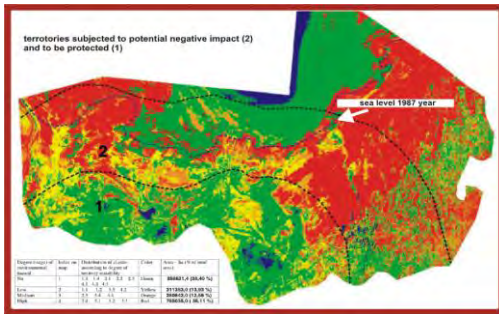
After satellite image processing, tentative routes for all expeditions and sites for detail studies were identified and work maps were produced. Field study results served as a basis for image classification. This allowed the identification of areas for each selected landscape.

7



Deserted lands hydromorphic cereal halophyte-herbaceous with shrubs

8



Нет (практически отсутствует) - 858621,4 га (Зеленый);
 Слабая - 311353,0 га (Желтый);
 Средняя - 280842,0 га (Оранжевый);
 Сильная - 785035,0 га (Красный).

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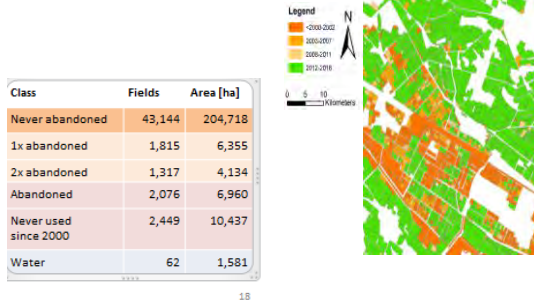
Оценка динамики бассейна реки Угам.



10

Results

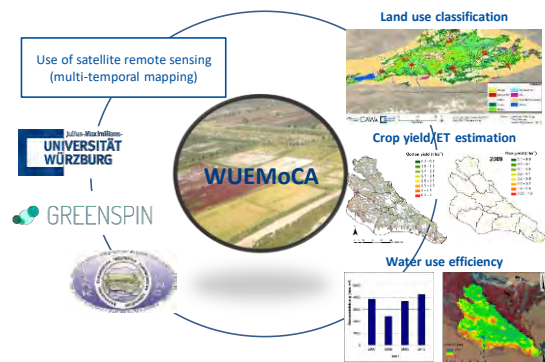
Map of Abandoned/Used Fields



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- Tool features:
- Through WUEMoCA, the user is provided with information on irrigation areas, crop yields of main agricultural crops within individual contours (regions, regions, landfills) of the Aral Sea basin based on remote sensing data.
- The processing of satellite imagery includes: automated loading of satellite imagery, data processing, classification and estimation of biomass, yield calculation.
- Methodology The productivity of water and other resources is estimated based on the analysis of the parameters of the state of crops obtained from satellite images.

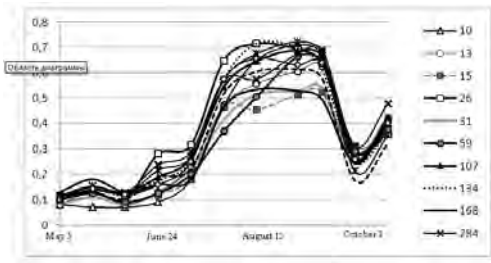
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Indicator calculations based on user input

Additional indicators computable with user input data (statistical data like water intake, water norms, crop prices etc.)

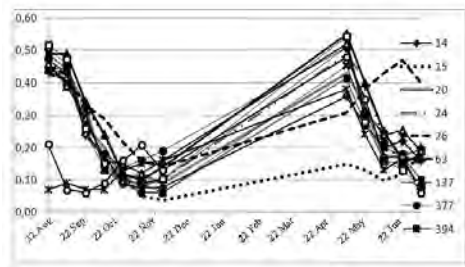
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Change NDVI inlet of cotton vegetation.



15

NDVI change for winter wheat.

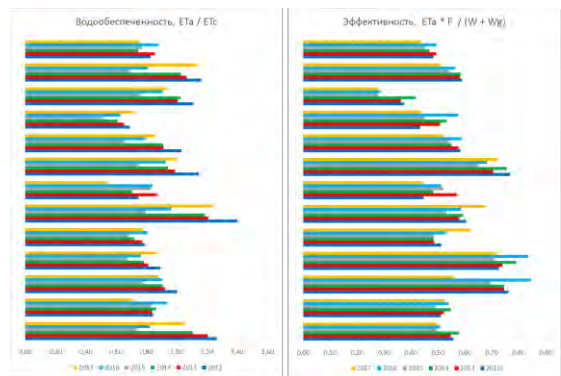


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Shp-file АВП ЗИЛОЛ



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Our address www.cawater-info.net

Thanks for attention!!!