

GeoAgro Platform for agroecosystem analysis and advisory

Gro-spatial big data and interactive tool for spatial data and maps



Chandrashekhar Biradar

Geoinformatics activities in Central Asia let by Chandrashekhar Biradar with kind support, contributors and acknowledgments:

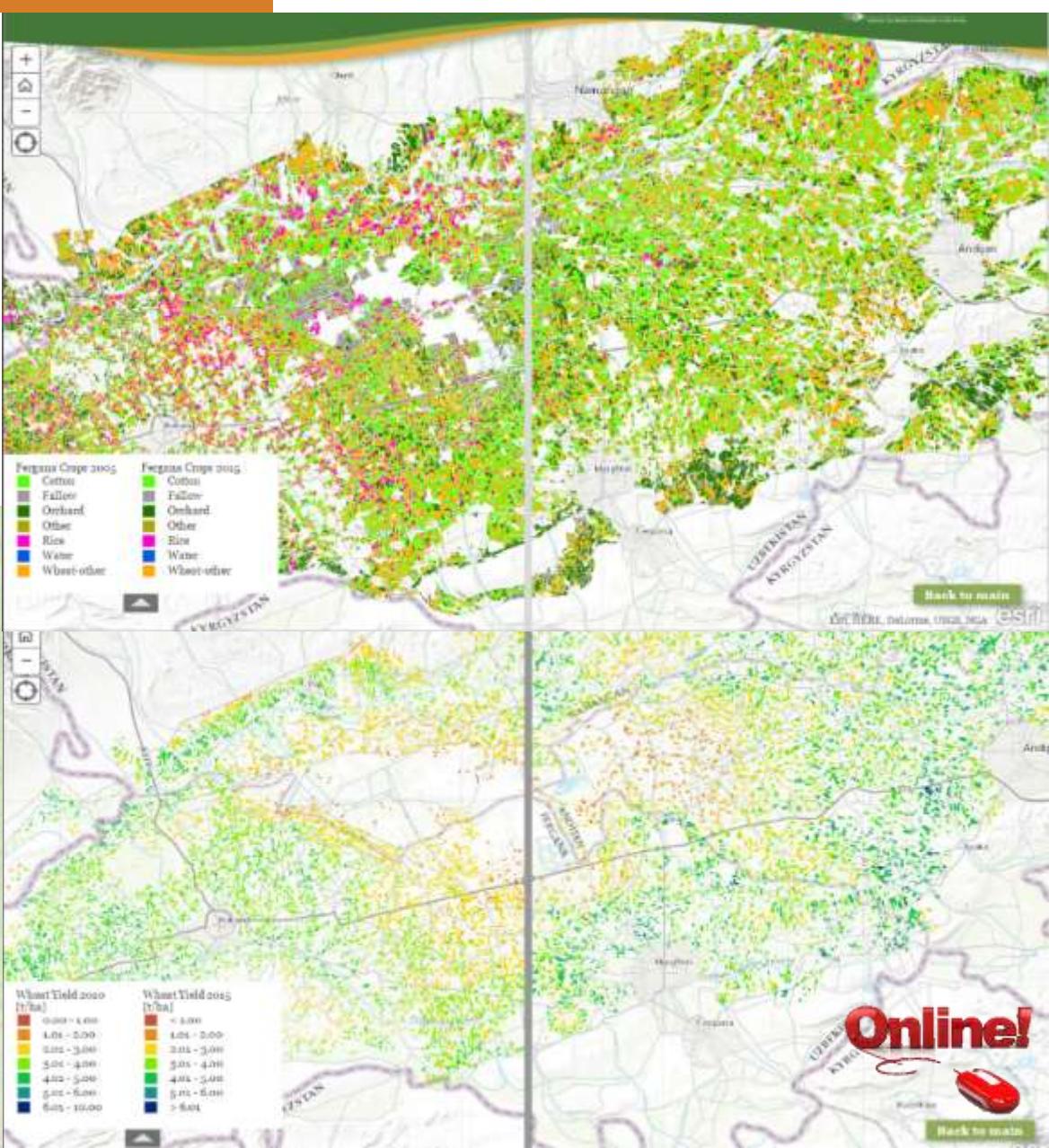
Biradar, C., Low, F., Xiao, X., Geli, Z., Fliemann, E., Atassi, L., El-Shama, K., Patil, P., Omari, L., Tulkun, Shukhrat, A., Youmin, C., Botir D, van Ginkel, M., Enrico, B., Bao, L., Thomas, R., Akmal A, Benli, B., Mounir, L., Aziz, N., Haddad, M., Dong, J., Qin, Y., Turok, J., Sherzod R., Senay, G., Youmin, C., Sharma, R., Noble, A.

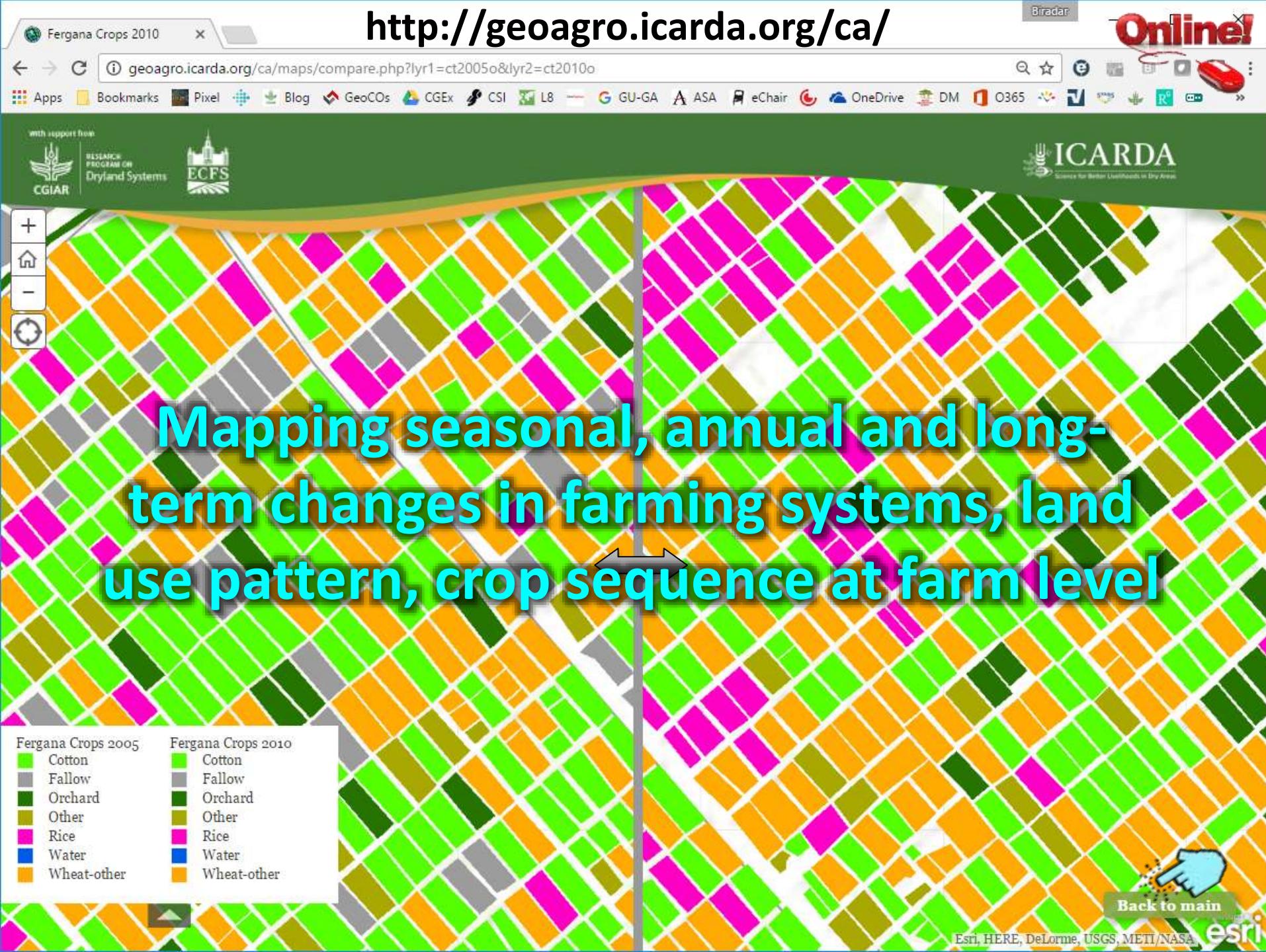
NASA, ESRI, USGS, OU, UU, CGIAR-CSI, GOOGLE EE, AWS, Gov UZBEKISTAN, CRP DS, RUSSIAN Gov.

The screenshot displays the GeoAgro-CA software interface. At the top, there is a toolbar with icons for file operations like Open, Save, Print, and Help. Below the toolbar, the ICARDA logo is visible. The main area contains several map-based interfaces:

- Precision Farming Systems:** A grid of five small maps labeled "Land Cover", "Elevation", "Soil", "Vegetation Index", and "Topographic Relief".
- Land Use/Crop Types - Object Based:** A map showing land use categories. A legend on the right lists: Cotton (green), Fallow (purple), Orchard (dark green), Other (yellow-green), Rice (pink), Water (blue), and Wheat-other (orange). Below the map are dropdown menus for "Select Year" (2005-2015) and "Select Crop" (Wheat, Cotton, etc.).
- Yield Maps - Object Based:** A map showing yield levels. A legend on the right lists yield ranges in t/ha: < 0.00 - 1.00, 1.01 - 2.00, 2.01 - 3.00, 3.01 - 4.00, 4.01 - 5.00, 5.01 - 6.00, and > 6.01.

On the left side of the interface, there are three small images of agricultural equipment: a satellite, a plane, and a person with a tripod.







Quantification of agricultural productivity, yield gaps, water use efficiency, pest-disease risks under changing climate and socio-ecology



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