

Deformation Maps Using Spaceborne Interferometric Synthetic Aperture Radar (InSAR)

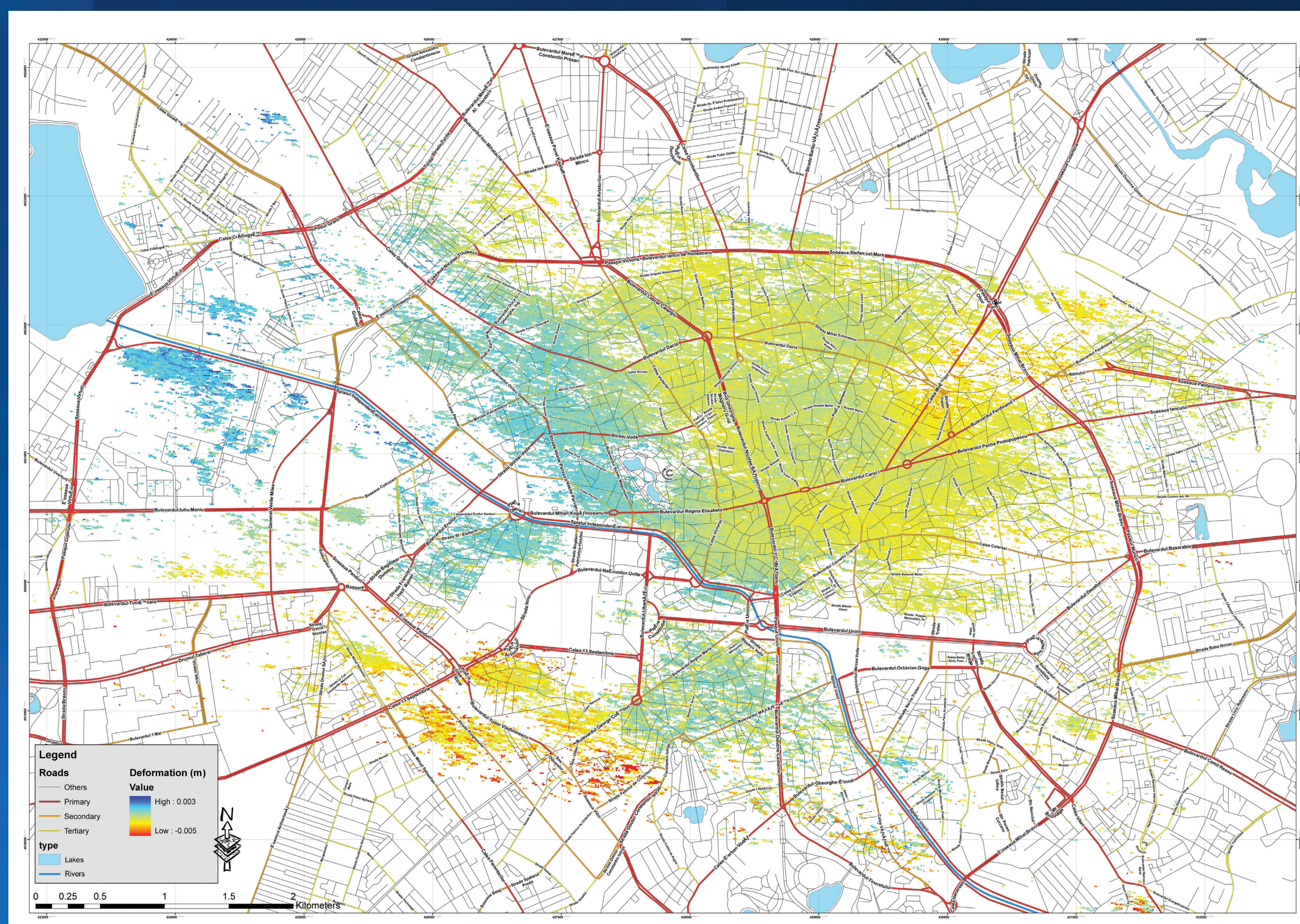
InSAR is an Earth Observation technique promoted by the Space Agencies and Industry to detect and monitor ground deformation and infrastructure stability up to millimetres per year accuracy.

Using InSAR techniques (Differential InSAR, Small Baselines Interferometry and Persistent Scatterers Interferometry), at least hundreds of

points in isolated areas and tens of thousands of points in urban areas can be accurately measured from space, in a few seconds.

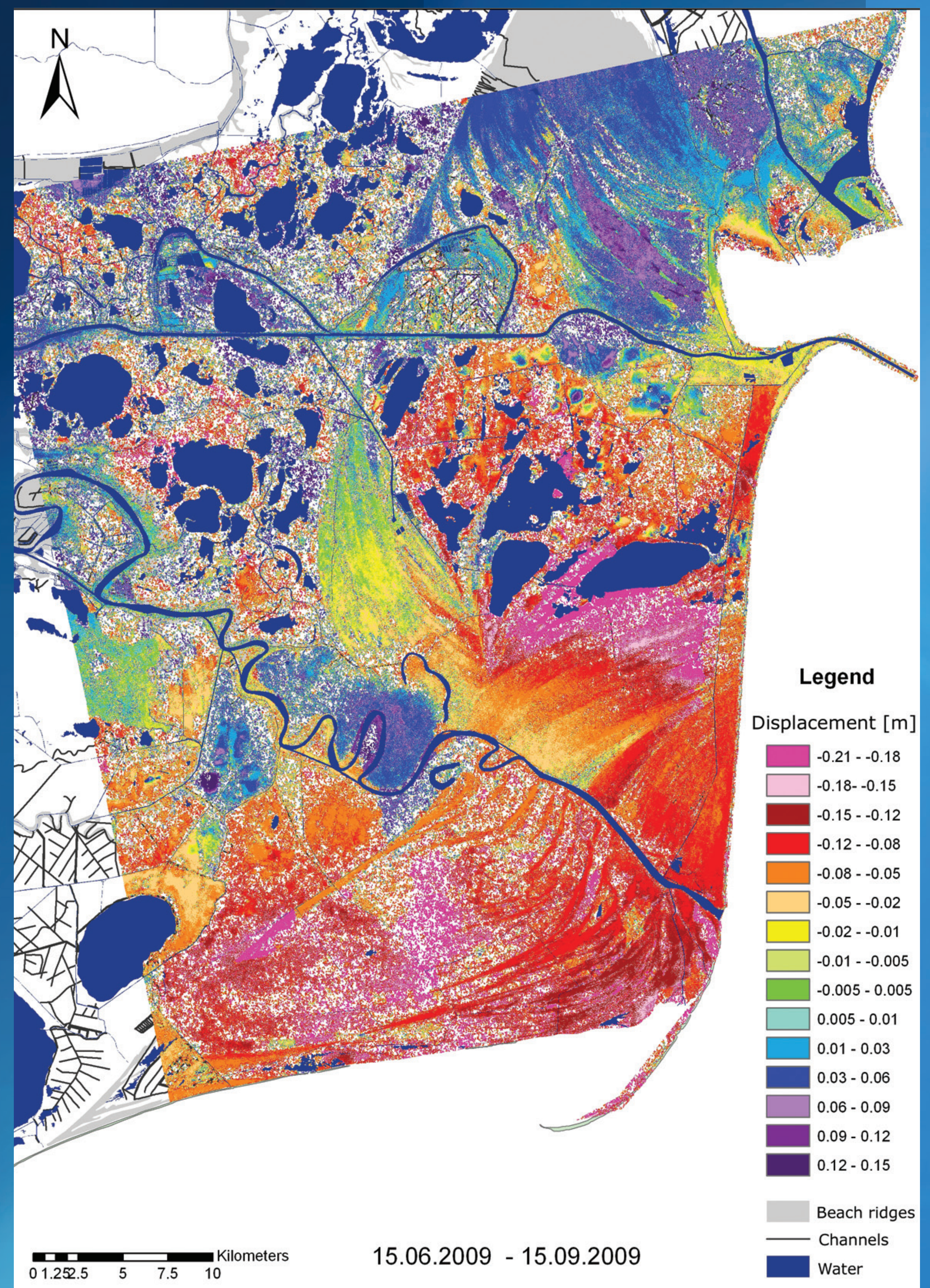
InSAR is a powerful tool for monitoring, measuring and mapping ground deformation and preventing dangerous events with social and economic impact, otherwise difficult to achieve using only ground information.

Urban Infrastructure Monitoring



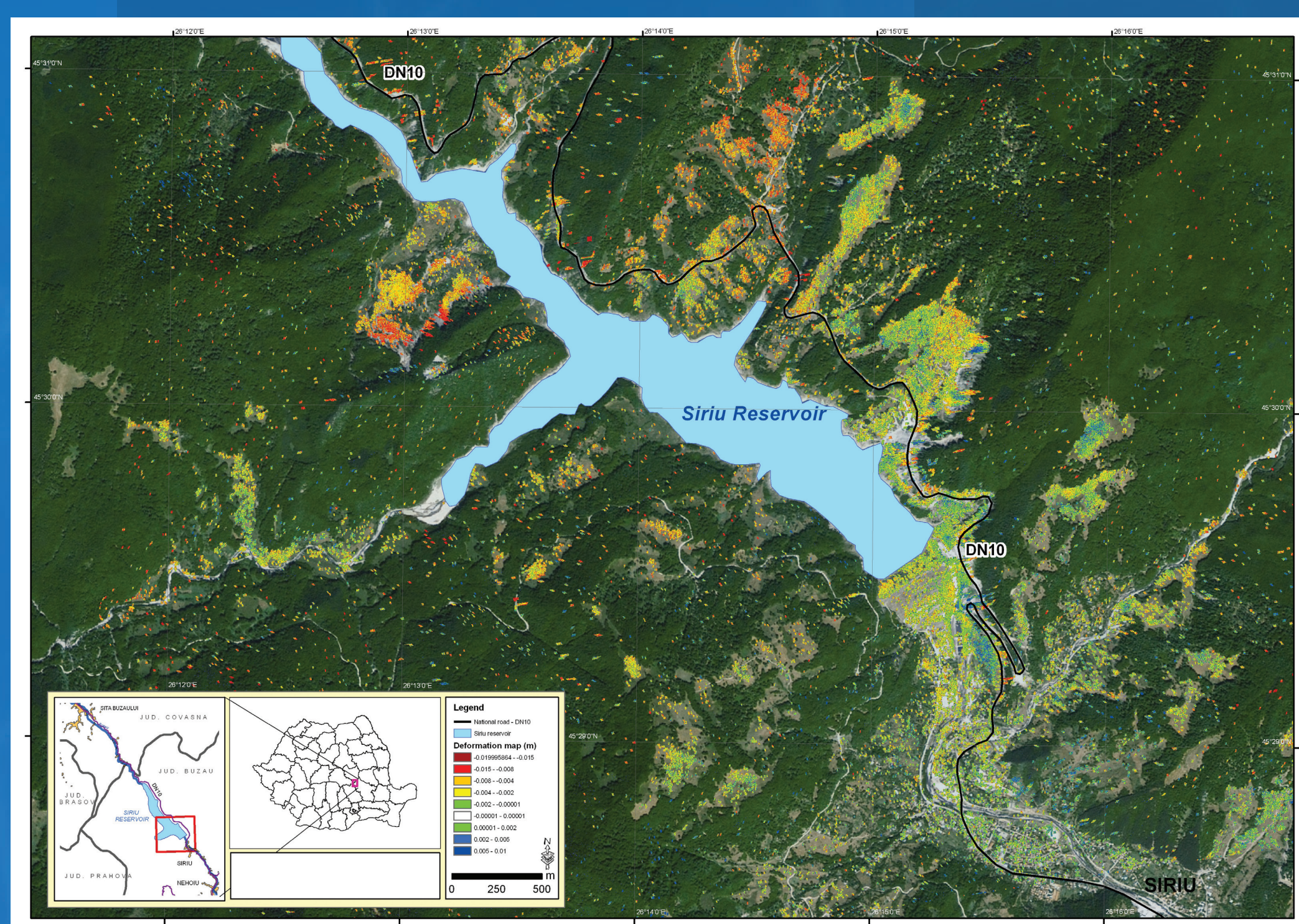
▲ Deformation map over Bucharest, Romania

Environment Monitoring

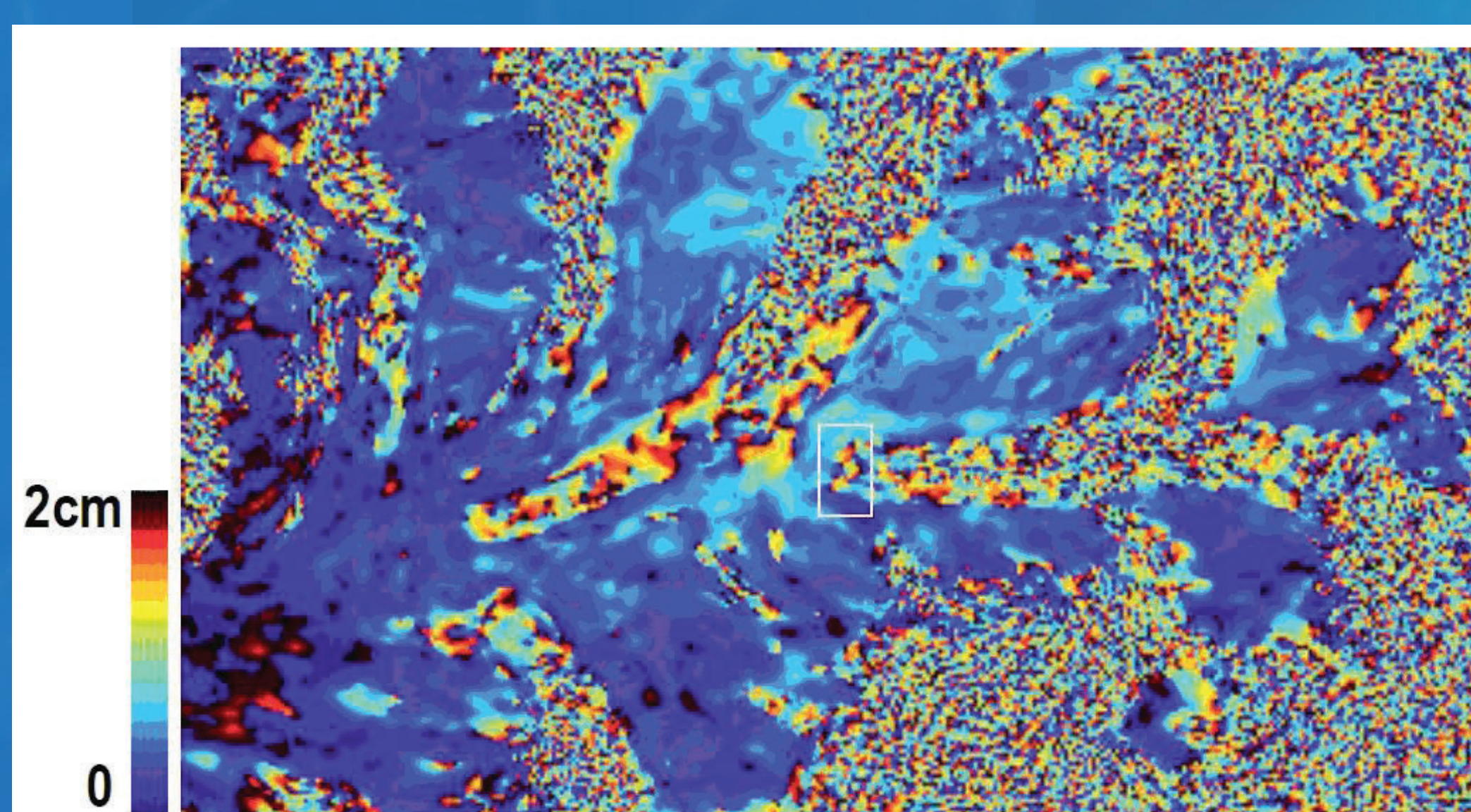


▲ Deformation map over Danube Delta, Romania

Natural Hazards Monitoring



Deformation map over Siriu area, Romania



Differential interferogram over the glaciers around Imja Lake, Himalaya

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