EnSAG Phase II: Monitoring the Phenological Development of Agricultural Crops

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Abstract:

The scope of the project is the scientific preparation of the hyperspectral satellite mission EnMAP (Environmental Mapping and Analysis Program). The scientific lead of the mission lies with the Remote Sensing section at GFZ Potsdam, supported by a Science Advisory Group (EnSAG). Tasks of the EnSAG include (I) developing and updating the EnMAP Science Plan, (ii) organising and conducting workshops and summer schools, (iii) coordinating networking and dissemination activities, and (iv) developing algorithms for processing and analysing hyperspectral data as well as implementing them into the free software package EnMAP box, developed in the frame of the EnMAP scientific preparation program.

At the Department of Geography of the Ludwig-Maximilian University Munich the following goals are targeted:

- Conduction of science campaigns for improved derivation of phenological information of agricultural crops from hyperspectral remote sensing data
- Collecting in-situ data for scientific evaluation as well as for the provision of teaching material
- Continuation of the close integration of the hyperspectral user community through contributions to workshops and summer schools
- Development of algorithms for the derivation of agriculturally relevant parameters from hyperspectral data and their implementation into the EnMAP box software.