

Validation of FAPAR products derived from optical sensors: method and results.

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Validation of remote sensing products

In the context of scientific research concerning global change issues, remote sensing products have been demonstrated to be essential tools to monitor the characteristics of both land surfaces and their temporal evolution. The biophysical activities on land surfaces are documented from spectral measurements made in space. Advances in the understanding of radiation transfer and availability of higher performance instruments have led to the development of a new generation of geophysical products able to provide reliable, accurate information on the state and evolution of terrestrial environments. Specifically, a series of optimized algorithms have been developed to estimate the Fraction of Absorbed Photosynthetically Active Radiation (FAPAR) for various instruments. Such an approach allows the synergistic use of FAPAR products derived from different sensors and the construction of regional and global FAPAR time series independent from the life time of these specific sensors. This presentation will present a comparison strategy against ground-based estimations and results from the exercise conducted with products derived from SeaWiFS, MERIS and MODIS.