Geophysical Research Abstracts
Vol. 15, EGU2013-3809, 2013
EGU General Assembly 2013


# Distributed benchmarking of ET models with OSGEO tools

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Earth monitoring of the water cycle has an ever increasing demand in space and time resolution. Evapotranspiration is by far the most important quantity of water in a water balance, making its measurement of paramount importance.
Evapotrasnpiration modeling has now become widely established as a specialized field at the meeting points of thermodynamics and satellite remote sensing. However, local calibration is widely variable, area of interests have a large range of scale and application needs are wide.

The rising of data distribution paradigms and open source geospatial programming frameworks permits the development of a benchmarking method of available remote sensing evapotranspiration models. This research explores the combination of various scientific and technical fields in order to address a particularly complex comparison of different models at various scales of processing/space/time in order to address practical questions for water management, but also fundamental questions of thermodynamics.