* Download mingw32
* With mingsys
* Openshell
* Copy there the files
* Edit make (use the correct name for the compiler, which is just “cc”)
* Type make

USE

* First I have to understand the product (fapar), Inversion of all parameters using VIS NIR MODIS
* Then I have to understand how to use the 2stream in direct (input)

OBJECTIVE: above ground biomass estimation (for pasture and crops)

The growth describes the NPP and GPP (and the evolution of LAI) as a function of a number of model parameters and variables (incident radiation, precipitation, temperature). GPP, which in turn determines the LAI increment, is computed with a LUE driven by FAPAR (function of LAI).

Why assimilation and not forcing?

Because fapar obs may be missing in relevant periods (because of cloud cover) and because the model is intended to be used in prognosis (within season forecasts).

Why using FAPAR in the cost function?

FAPAR is “true” in the RT model and in the growth model. LAI is effective in the RT model and unknown in the growth model. The main interest is in having a good FAPAR estimates because it controls the GPP. At the end it is a sort of EO-LDAS scheme where the dynamic is prescribed by the Growth model.

OTHERAWAY: use the two stream model to estimate directly the MODIS albedo?

QUESTIONS

* If I feed the direct model with broad band VIS values for R, T and Rsoil, I get the fAPAR correct?
* TIP FAPAR is for perfect diffuse (Fdiff = 1), should I do the same in direct?

IDEAS

Using fluxnet station in Africa to validate?

PROBLEMS

If the cost function is built on the FAPAR, I may have that in the direct use of the RT model I specify some parameters that are not the same of those retrieved in the inversion.