SWAP-Sugarcane Modelling Development

Week 1: Checking simulated SWC, ET and crop G&D values of whole experiment (4 yrs) with observed data. SWC was not matching so a calibration procedure (R) was developed to optimize parameters, with focus on ksat.

Week 2: SWC matched, but ET didn’t thus the rootwater uptake subroutine was reviwed and the two SRL method was implemented.

Figura 1. Simulated Root system (From Thesis results)

Week 3: Carbon balance did not match, nor even using Marin & Jones 2014 or Marin Thesis, new partitionining factors were implemented based on observations (Fig 1)

Figura 2. Derived from data of 3yrs experiment

Week 4: Adjusting partitioning factors…