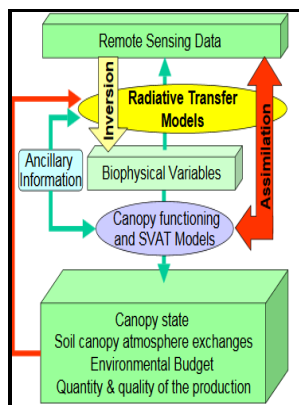


# Data assimilation for the earth system

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## Data

In the future, also, sea surface salinity data will be available also from SMOS and Aquarius. Red implies the coupled model background has larger errors than the ocean control.

## Data

A number of changes to the FOAM data assimilation setup were required in order to implement it within the weakly coupled data assimilation framework.

## Data

What is Earth system data assimilation? The impact of the coupled ocean on the atmosphere can be seen in , for example, which shows that the ocean currents particularly in the tropics affect the wind.

## Data Assimilation for the Earth System

This will help to quantify the potential benefits of moving to strongly coupled DA and will give the coupled covariances needed for any prototype strongly coupled DA system. Given the cost of new observing systems, it is important that this process happens quickly.

## Data Assimilation

Their choice will depend on the size of the system of interest, the sensitivity to initial conditions, available observations and the model under study in particular its degree of non-linearity. Lee , 2004 : Impact of a two-way coupling between an atmospheric and an ocean-ice model over the Gulf of St.

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In view of the numbers  $M$  on the order of  $10^7$  or  $10^8$  of model variables and  $P$  on the order of  $10^6$  of observations in use for operational

models, we clearly see a need for simplification.

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