

Document with diagrams and figures.

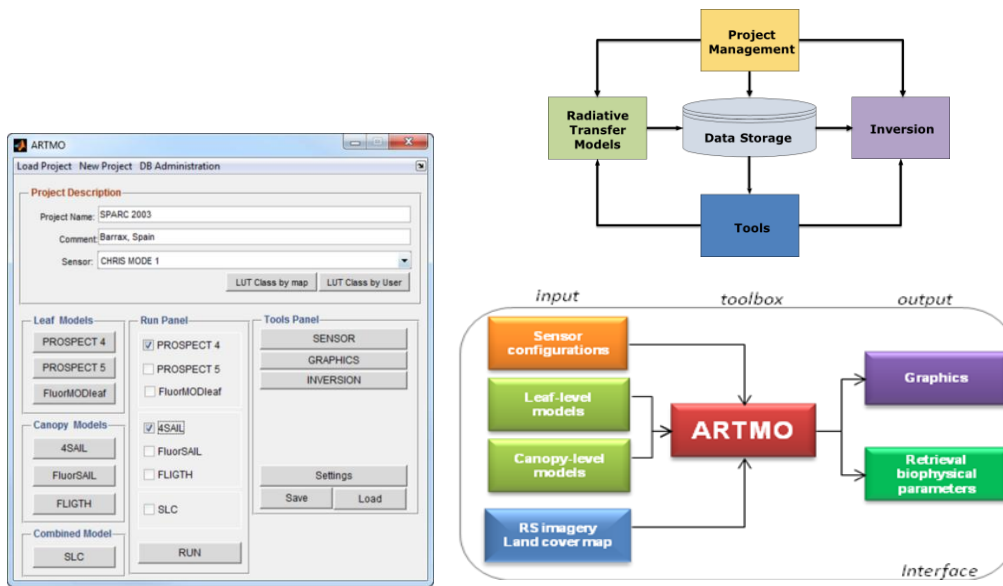


Figure 1: ARTMO's main window with activated 'PROSPECT 4' and '4SAIL' models (left), ARTMO's conceptual design (top-right) and its input-output concept (bottom-right). Any leaf model can be coupled with any canopy model. A detailed description of ARTMO's current modules and utilities can be found in its user manual: (<https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbncqb2NoZW12ZXJyZWxzdxHxneDo2NDQ0ZTY1ZjQzODdlN2Ey>).

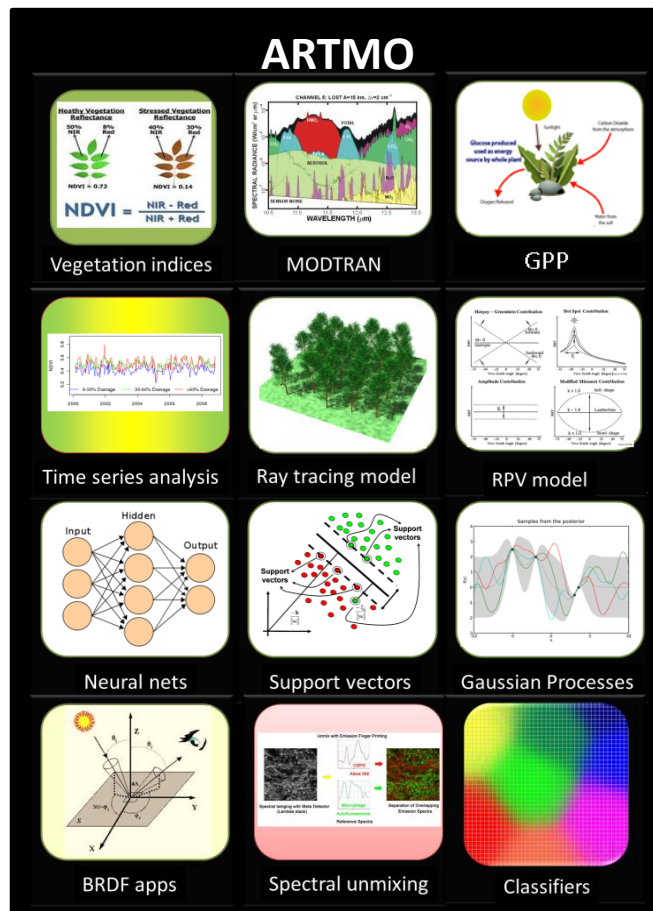


Figure 2: ARTMO's 'apps' concept. The idea is that apps can easily be implemented into ARTMO. Apps could be models or further processing of the simulated spectra. These apps are utilities to facilitate EO research and data processing applications.

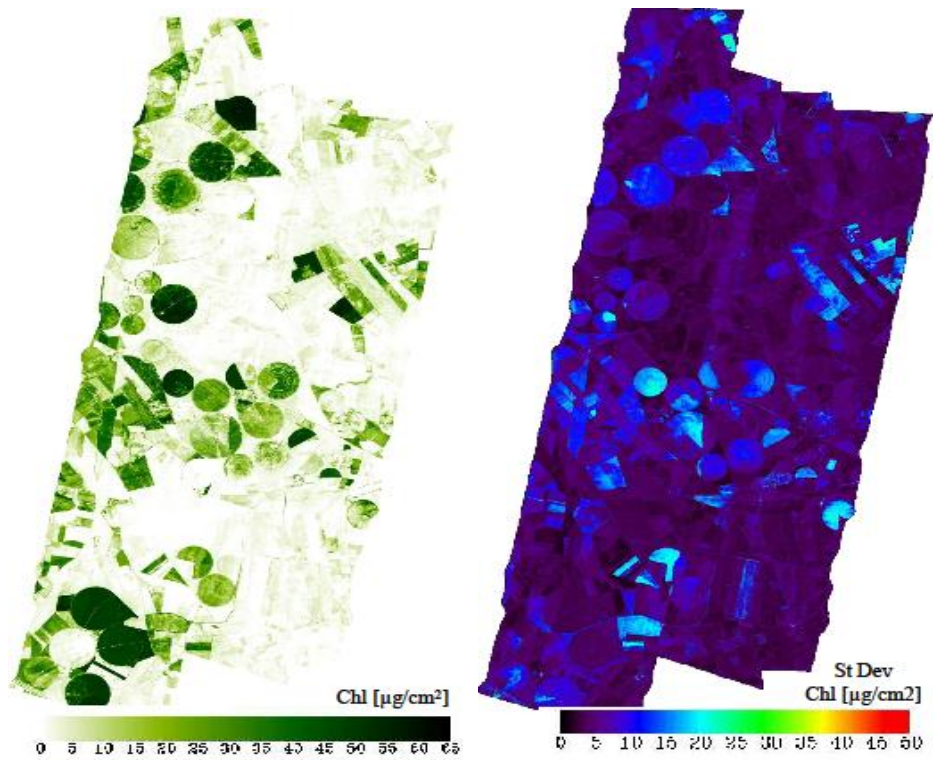


Figure 3: Map of Chlorophyll content (Chl) [left] and associated confidence intervals [right] as calculated from airborne hyperspectral CASI data using Gaussian Processes regression (GPR). The darker the confidence values the more certain the chlorophyll estimations.

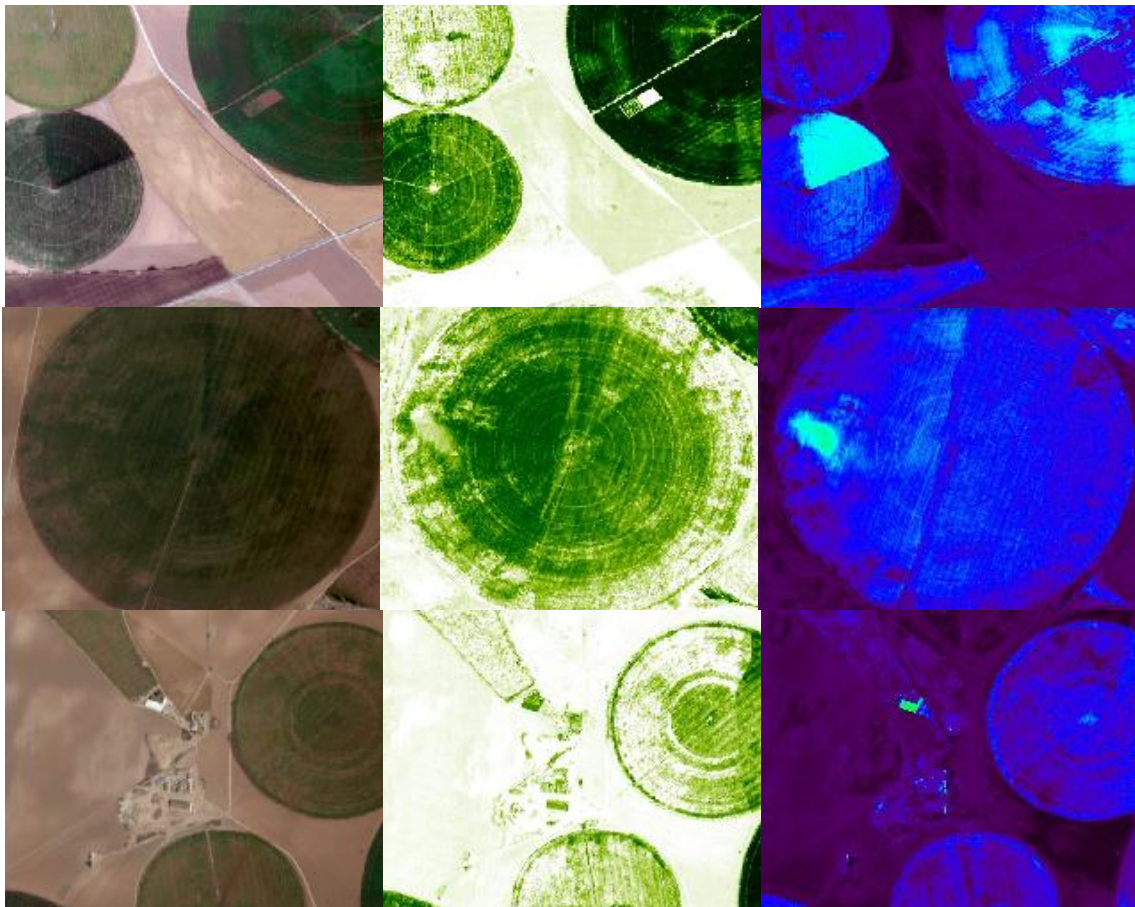


Fig. 4: Three examples [top, middle, bottom] of CASI RGB snapshots [left], Chl estimates [middle], and associated confidence intervals [right]. The same color table as in figures 3 were used.