eo-ldas
support to science element

National Centre for Earth Observation
NATURAL ENVIRONMENT RESEARCH COUNCIL

EO-LDAS Final Presentation

ESA Harwell, September 2nd 2011

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Agenda

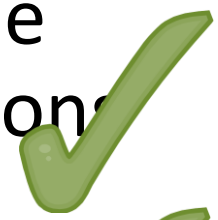
1. Introduction
2. Re-cap of outstanding issues
3. Overview of EO-LDAS system
   -Functionality
   - Updates since last meeting
   - Documentation
4. Validation Results
5. “Independent” view of usability
6. Future priorities
7. Contractual Issues

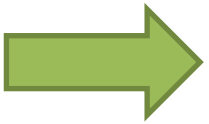
Outstanding Issues - Functionality

1. Functionality to use different sensor types in a single assimilation run
2. Updates to use band pass functions
3. Updates to be able to calculate and display uncertainties
4. Complete atmosphere coupling for forward modelling
5. Improve the flexibility of the user interface to allow ingest of data for points 1&2 above

Outstanding Issues - Validation

- Repeat simulation experiments done for the RSE paper using Sentinel 2 bandpass functions and irregular temporal sampling.
- *Forward modelling ~~ground spectra~~ MODIS and comparison with field LAI*
- *Cross validation experiment with MODIS surface reflectance*
- *Forward modelling and prediction of TOA observations*






Revised validation with MERIS

- Cross validation experiment – prediction of MERIS from MODIS

Outstanding Issues - Documentation

- Update of Technical Specification and re-casting as a user manual / tutorial for users of the software outside the team

Project next steps

- Review and update of final deliverables
  - Technical Specification / User Manual
  - Validation report
  - Final Report & Scientific roadmap
- Agree steps for making software available and interfacing with users