



CSIRO Agency Report

Tim Malthus
Arnold Dekker
Alex Held

Research Program Leader, Environmental Earth Observation
Earth Observation and Informatics Transformational Capability Leader
AusCover Facility, Terrestrial Ecosystem Research Network - TERN |
Team Leader Terrestrial Earth Observation

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Australia to chair CEOS in 2016

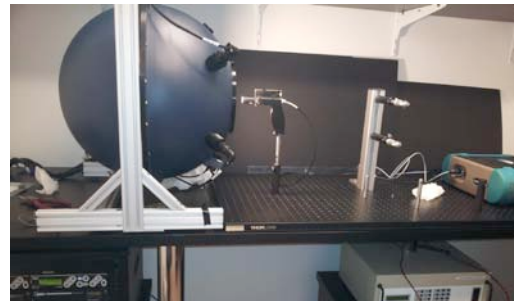
- Via CSIRO, Australia has recently been invited to become Chair of the Committee on Earth Observation System (CEOS (<http://www.ceos.org>)) for 2016
- Dr Alex Held (tentative Chair)
- Developing budget and forward plan, in close consultation with central government and associated agencies.
- Suggestions welcome from WGCV for areas or activities which could be emphasized during the 2015-2017 term.

TCP in Earth Observation Informatics

- Transformational Capability Platform – to both support and underpin EO-based research across CSIRO and outreach
- Leveraging research in cal-val, data processing
- Supporting both:
 - Terrestrial Ecosystem Research Network (TERN)
 - Integrated Marine Observing System (IMOS)
- Supporting forthcoming meeting of the Australian Satellite Calibration Working Group

TCP Cal-Val developments

- Developing Cal-Val facilities in Perth and Canberra (as national capability)
- Procedures for QA and Calibration of spectroradiometers
- Further developing facilities at Lake Lefroy salt pan, WA
- Investigating other potential vicarious calibration sites

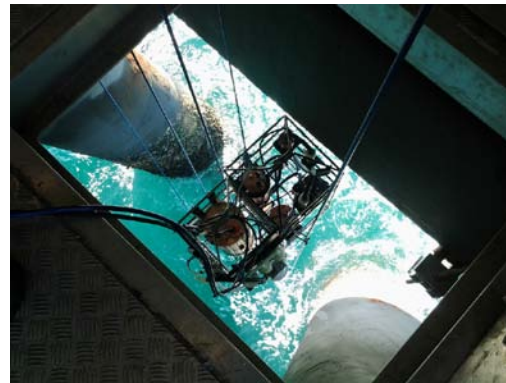


Survey of Cal/Val capabilities

- Funded by Space Coordination Office via Australian Satellite Calibration Working Group
- Supporting the recommendation of the NEOS-IP 'That national EOS calibration and validation infrastructure be established'
- Will assess:
 - Current capabilities and infrastructure for Cal/Val in Australia
 - Current activities in Cal/Val
 - Perform a SWOT analysis
 - Make recommendations on the path forward for Cal/Val activities in Australia
- Report almost finalised

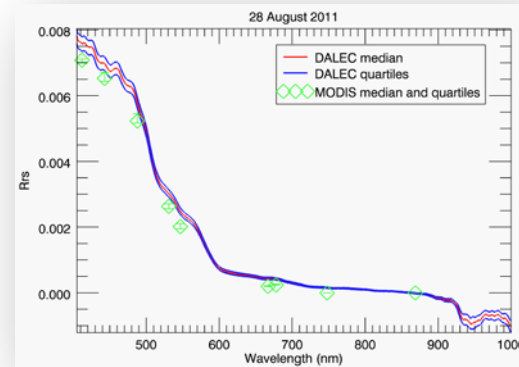
IMOS activities

- Re-establishment of Lucinda Jetty Coastal Observatory – Southern hemisphere vicarious aquatic cal-val site

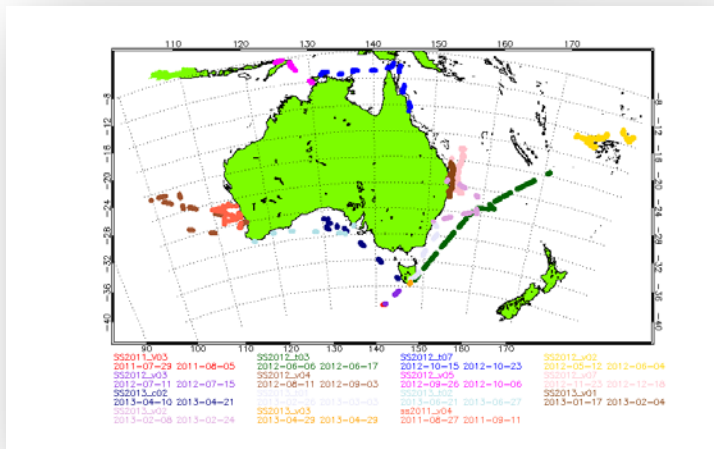


Ship-mounted spectro-radiometers

DALEC spectroradiometers installed on two research vessels, continuous acquisition measurements of the water leaving radiance in the Australian sector of the Indian, Pacific and Southern Oceans.



Dalec v MODIS comparison



IMOS Bio-optical database

The screenshot displays the IMOS web portal interface. At the top, the browser address bar shows the URL imos.aodn.org.au/imos/. The page header includes the IMOS logo and navigation links for Home, Map, and Search. Below the header, the main content area is divided into three sections:

- Map Layer Chooser:** A sidebar on the left containing a list of map layers. The 'Satellite Remote Sensing (SRS)' category is expanded, showing sub-categories like 'SRS Bio Optical Database', 'SRS Ocean Colour', and 'SRS Ocean Colour Calibration'. Other categories include 'Animal Tagging and Monitoring (AATAMS)', 'Argo Floats', 'Autonomous Underwater Vehicle (AUV)', 'Deep Water Moorings (ABOS)', 'National Moorings Network (ANMN)', 'Ocean Gliders (ANFOG)', 'Ocean Radar (ACORN)', 'Legacy 14-day composite', 'Single day single sensor composite', 'Single night single sensor composite', 'Gridded Sea Level Anomaly - Near Real Time', 'Gridded Sea Level Anomaly - Delayed Mode', 'Modis Ocean Color Products', 'Ships of Opportunity (SOOP)', 'Wireless Sensor Networks (FABNIS)', 'Camatology', and 'Model Outputs'.
- Map:** A central satellite map of the Southern Ocean region, showing a network of orange and red lines representing data collection tracks. A scale bar at the bottom left indicates 500 km and 500 mi, with coordinates 143.21777, -34.27832.
- SRS Bio Optical Database:** A control panel on the right side of the map. It includes a 'Capacity' slider, tabs for 'Info', 'Styles', and 'Filters', and input fields for 'Cruise', 'Data Type', and 'Time'. There are 'Add to Cart' and 'Clear Filters' buttons at the bottom of this panel.

<http://imos.aodn.org.au/webportal/>

TERN AusCover Program

-Product Validation Activities -

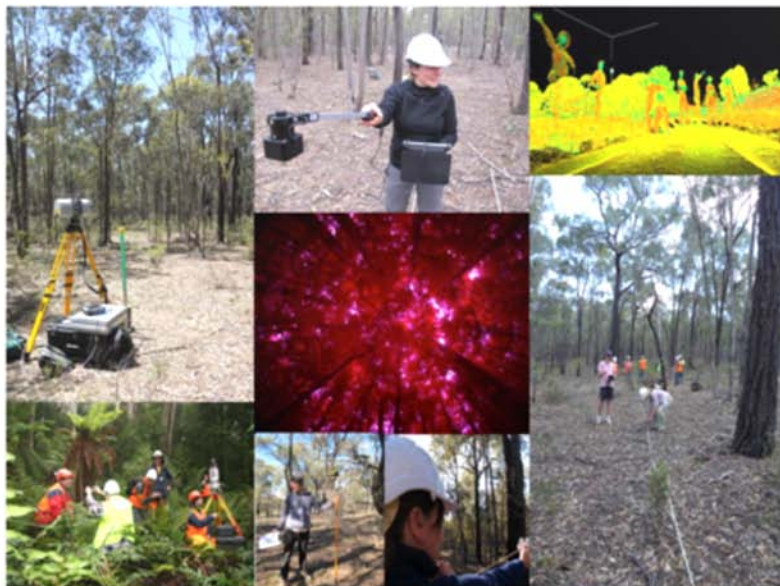


Products:

- MODIS LAI
- Burnt-area
- Fractional Cover
- Woody Vegetation
- Reflectance
- Aboveground Biomass



AusCover Good Practice Guidelines (A technical handbook supporting calibration and validation activities of remotely sensed data products)



2013



Arnold Dekker | (BSc. MSc. PhD.)

Director Earth Observation & Informatics-Transformational Capability Platform

Tel +61-(0)2-62465821 Fax +61-2-62465988 Mob +61-(0)419411338

<http://www.csiro.au/people/Arnold.Dekker.html>

Adjunct Professor -University of Queensland

Alexander Held PhD. | Director, AusCover Facility, Terrestrial Ecosystem Research Network - TERN |

Team Leader Terrestrial Earth Observation | CSIRO | GPO Box 3023, Canberra ACT 2601, Australia |

Tel. +61 (0) 2 6246 5718 | mobile 0419 427 313 | Fax. +61 (0) 2 6246 5988 |

Email: Alex.held@csiro.au<blocked::<mailto:Alex.held@csiro.au>> |

Tim Malthus - Research Program Leader

CSIRO Land and Water

t +61 2 6246 5732

E tim.malthus@csiro.au

w www.csiro.au

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www.csiro.au

