



CSIRO ENERGY
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Pinnacles Site

Commonwealth Scientific Industrial Research Organisation

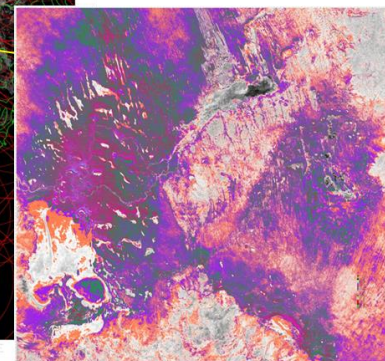
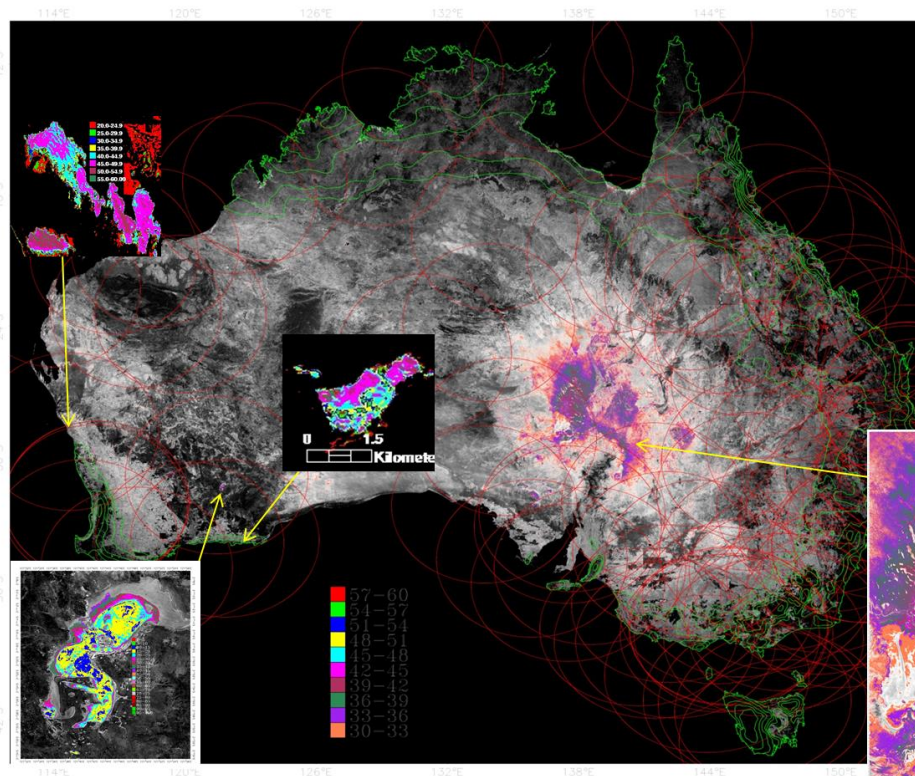
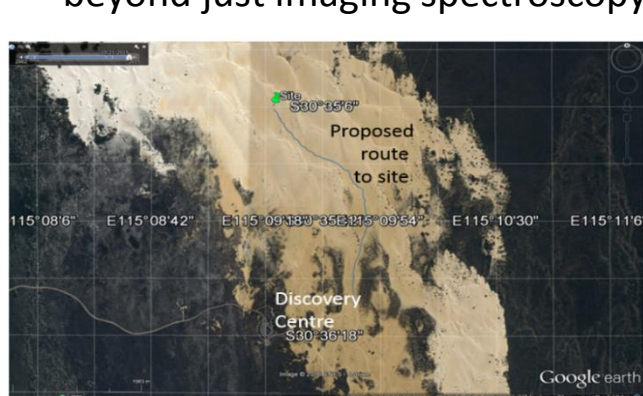
Ong, C.

CEOS WGCV IVOS, 25-29 March 2019

Perth, Western Australia

Development of An Internationally Endorsed Vicarious Calibration Site

Aim: to build a vicarious calibration site specifically for imaging spectroscopy missions. This vicarious cal site will have requirements at least meeting (and aiming for beyond) those of current CEOS endorsed vicarious calibration sites (RadCalNet) and will serve multiple purposes for optical sensors beyond just imaging spectroscopy.



Instrumentation & Site Characteristics

An application for the installation of instrumentation in support of an optical earth observation satellite vicarious calibration facility at the Pinnacles sand dunes

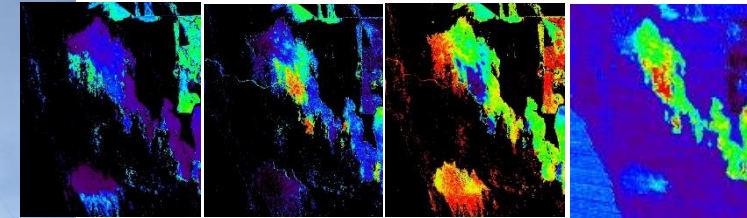
Prepared by Cindy Ong and Ian C Lau



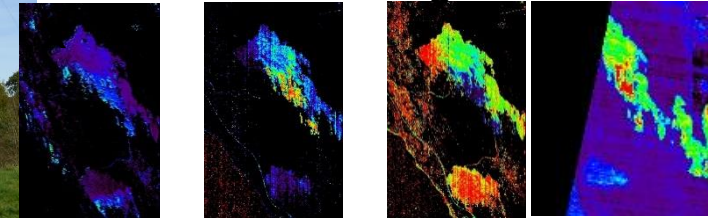
Potential increase numbers with AIST contribution

To be augmented in the future to DFOV VNIR-SWIR spectrometer and/or multiple radiometers

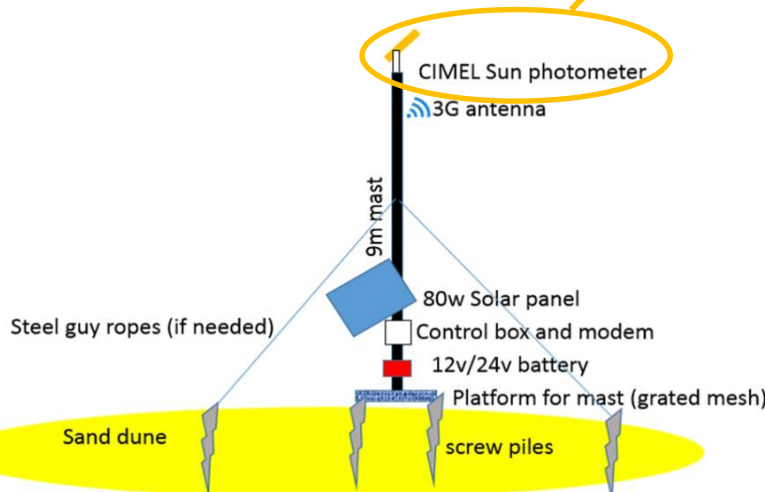
25Nov2000



FeO AlO MgOH Silica

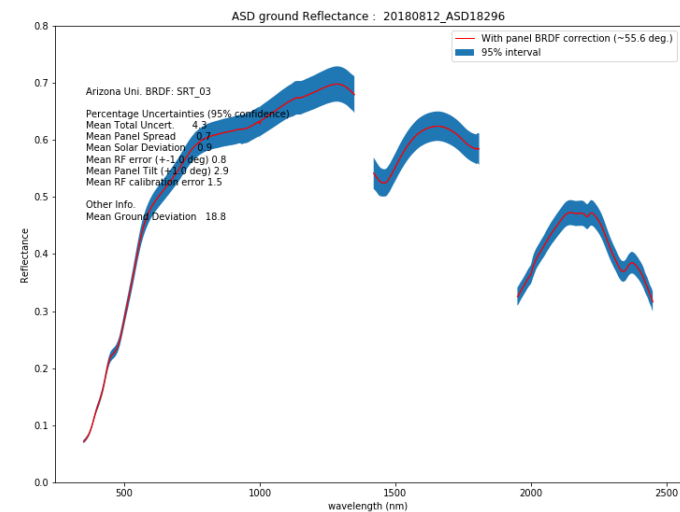
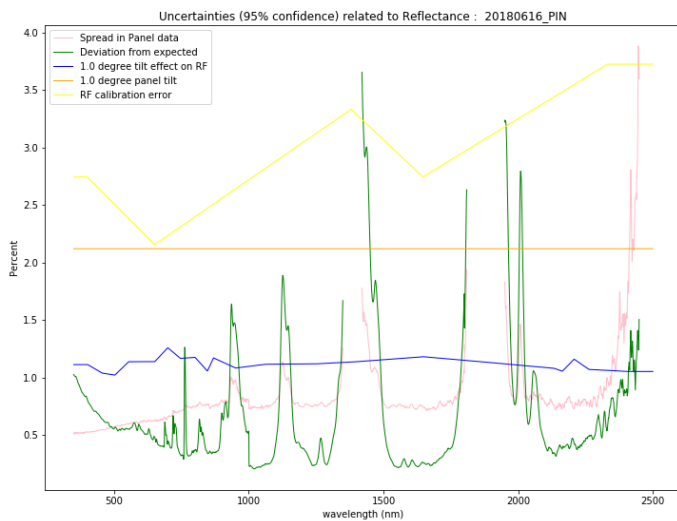
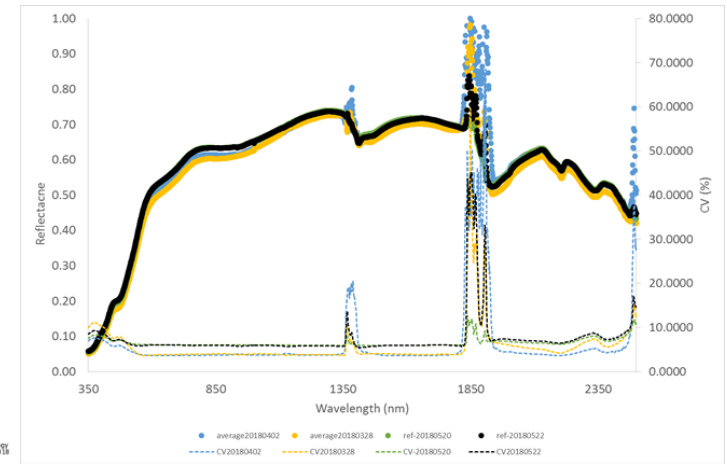
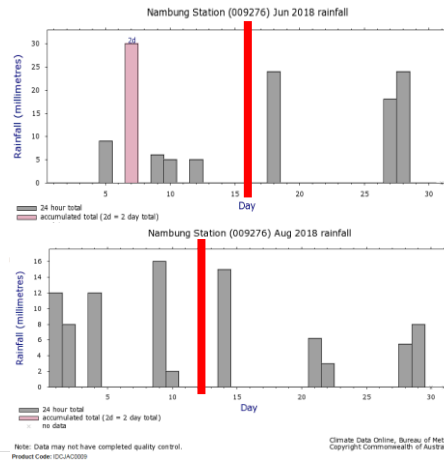
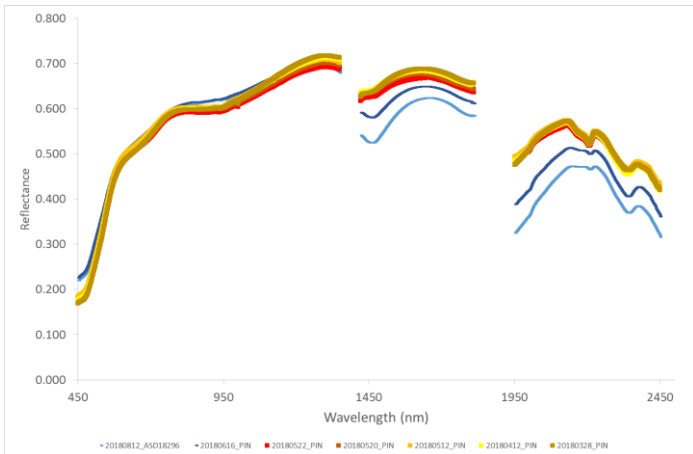


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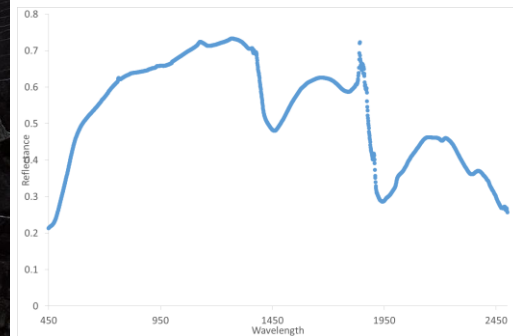
AIST contribution

Site Characterisation - Temporal Variability Across 2018 Winter and Uncertainties



Joint Campaign with NASA & Chilean Air Force (sponsored by IEEE GRSS)

- Calibration of Chilean FASat;
- Comprehensive site characterisation of Pinnacles Desert;
- Evaluation of 2 methods for field measurements;
- Investigation of dual field of view concepts;



DESIIS (@ ISS), WV2 Calibration and Field Inter-Comparison of CATSITTR

4 Nov 2018, 27 Dec 2018

