VCM Improvement (LAND feedback)

Eric Vermote
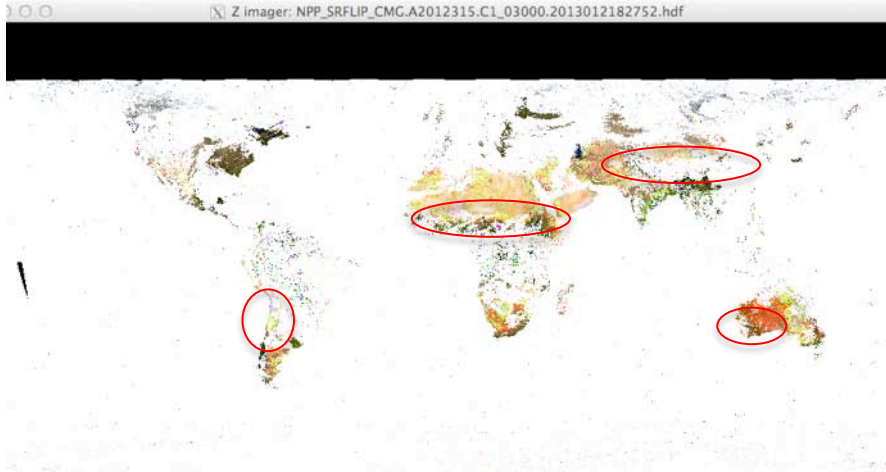
NASA GSFC Code 619

eric.f.vermote@nasa.gov
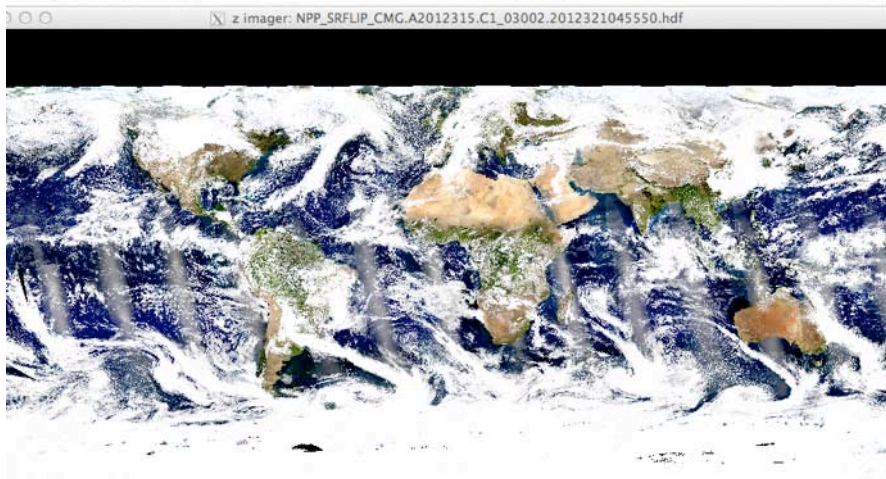
January, 14, 2013

Evaluation on 11/10/2012 (Calipso comparison)
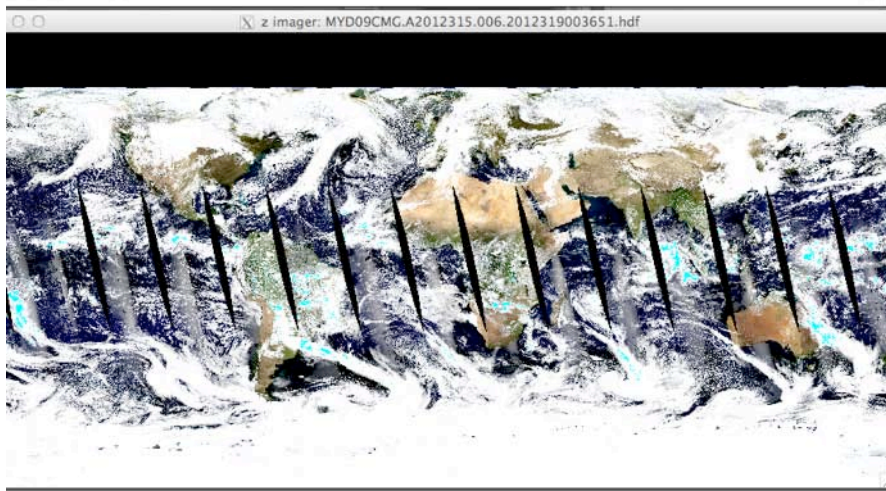
- Comparison of IDPS output (archive set 3000) NPP_SRFLIP_CMG.A2012315.C1_**03000**.2013012182752.hdf with LAND PEATE adjusted version (AS 3002) NPP_SRFLIP_CMG.A2012315.C1_**03002**.2012321045550.hdf, Aqua is also shown MYD09CMG.A2012315.006.2012319003651.hdf
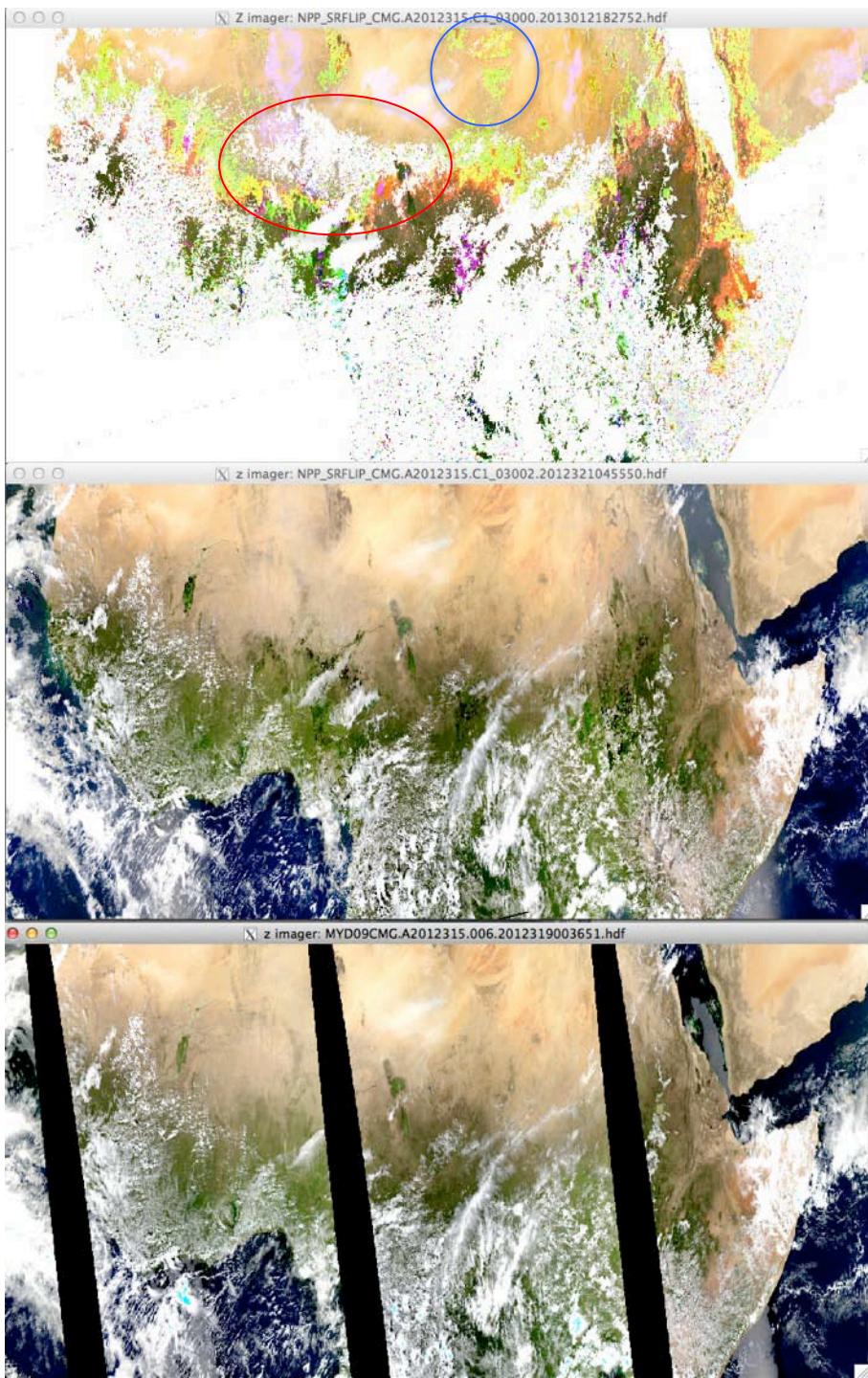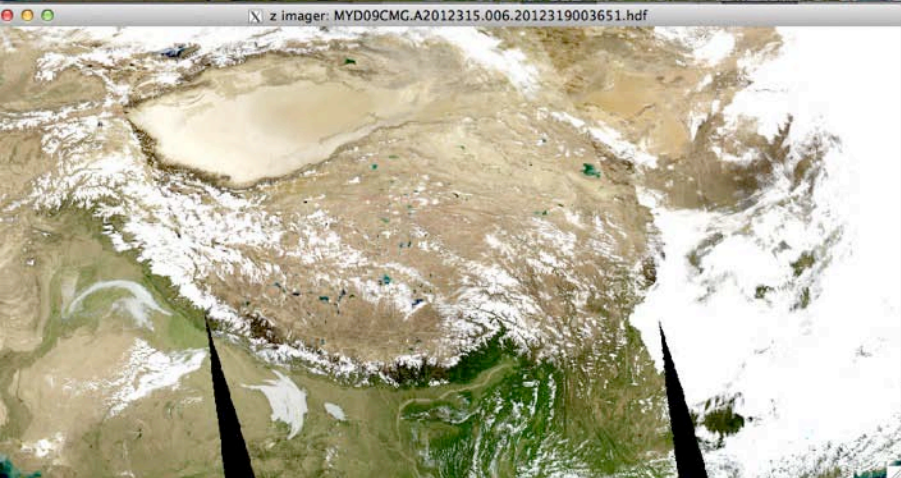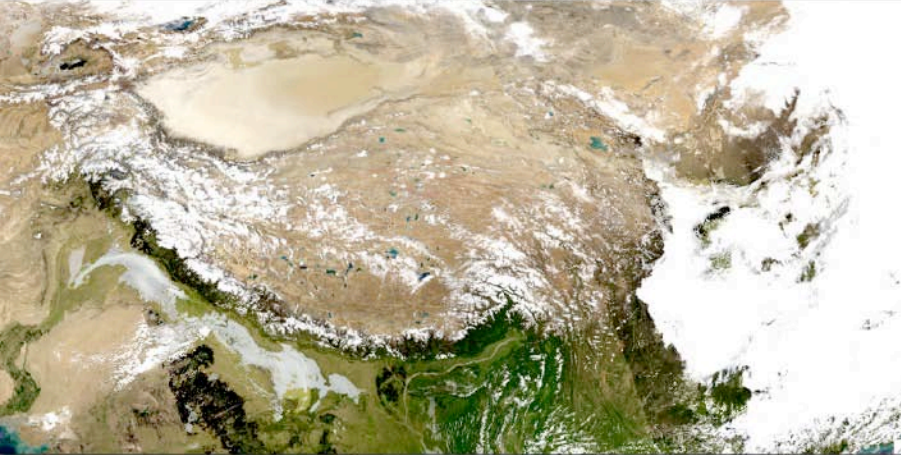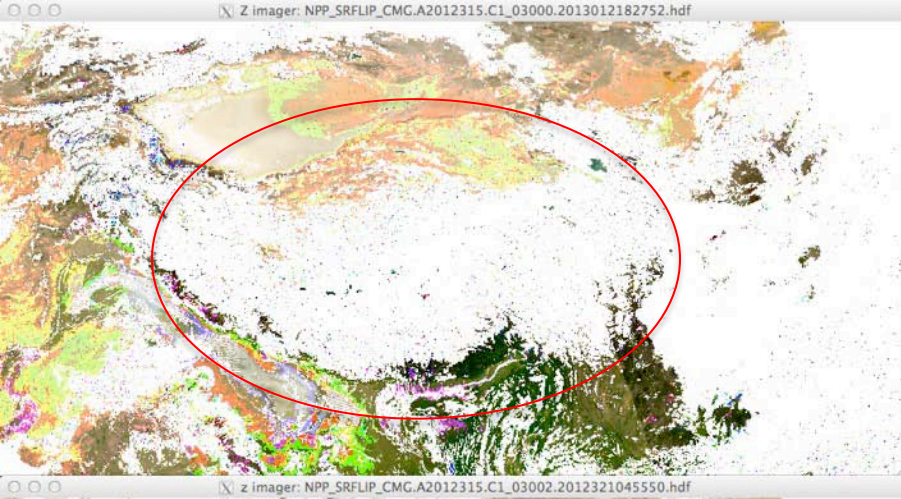
IDPS

LAND PEATE adjusted

Aqua

Zone 1 Sahel

False detection
(red circle) due to
The new seed file

Blue circle: Overcorrection
Due to the use of Navy Aerosol
climatology

Zone 2 Gobi desert

False detection
(red circle) due to the cirrus reflective test

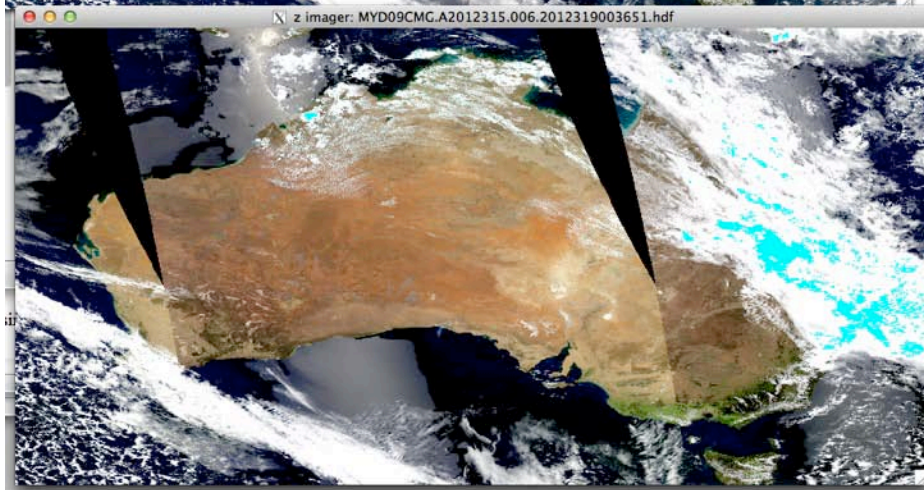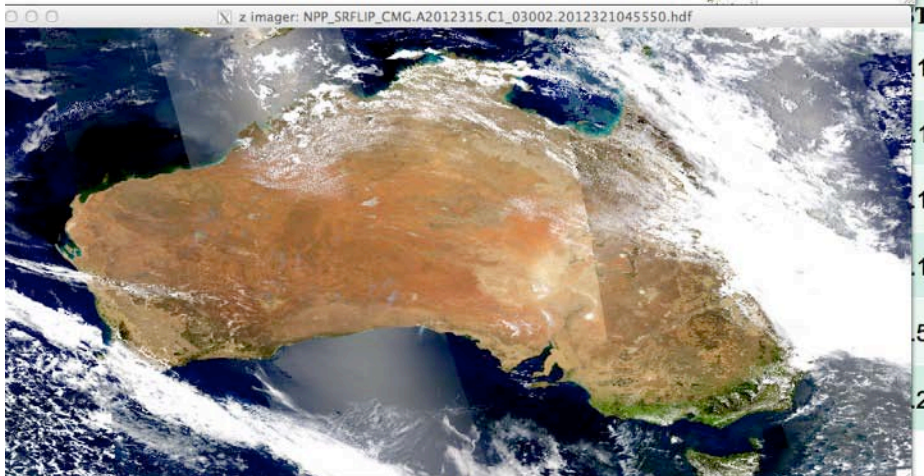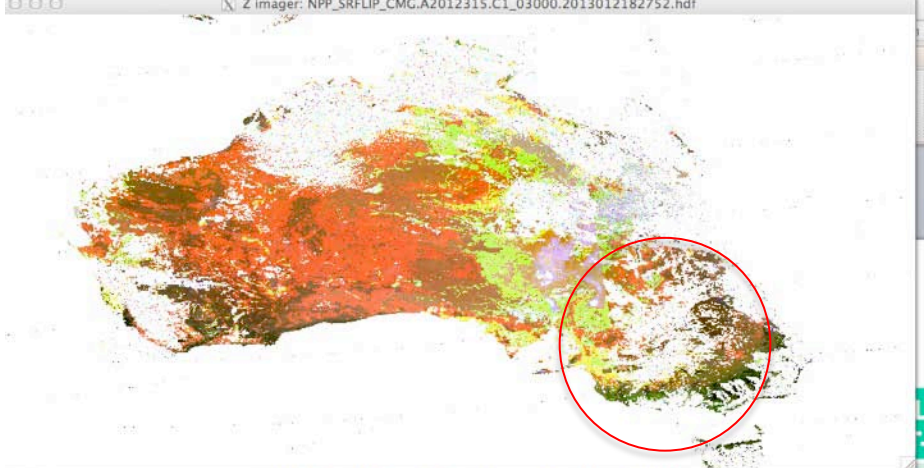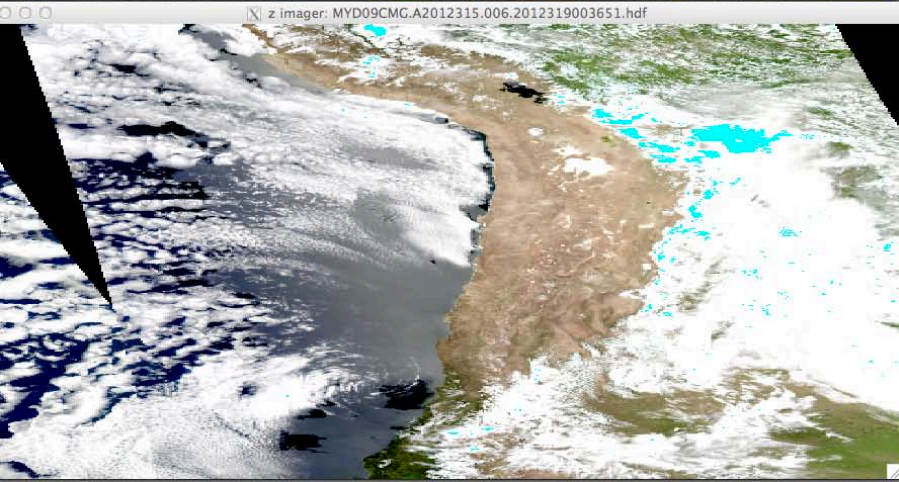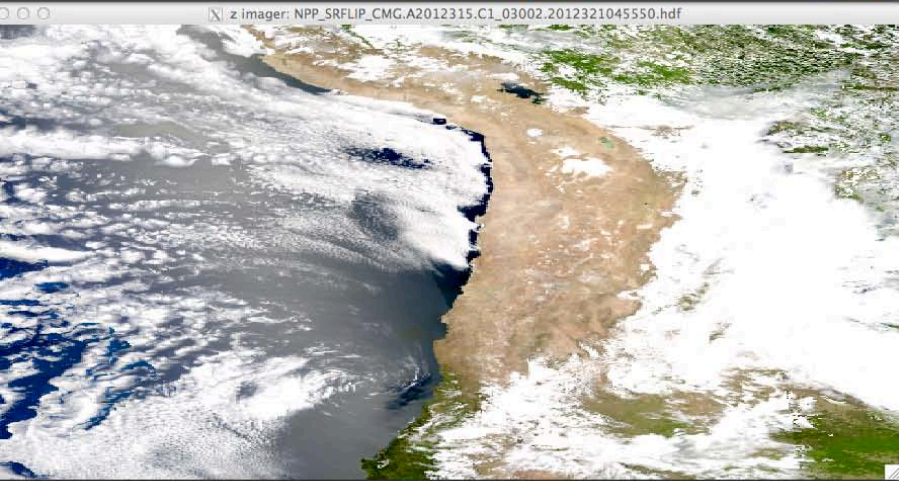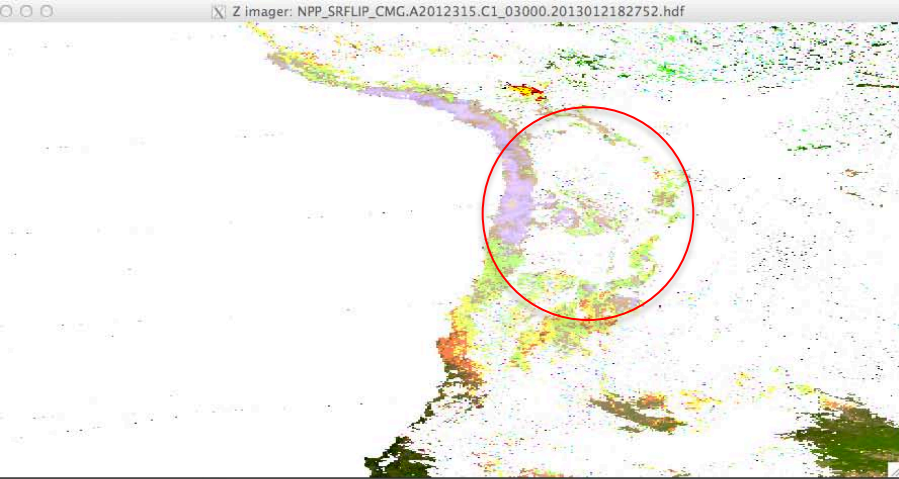# Zone 3 Australia

False detection
(red circle) due to the new seed file

Zone 4 Andes

z imager: NPP_SRFLIP_CMG.A2012315.C1_03000.2013012182752.hdf

z imager: NPP_SRFLIP_CMG.A2012315.C1_03002.2012321045550.hdf

z imager: MYD09CMG.A2012315.006.2012319003651.hdf

False detection
(red circle) due to the cirrus reflective test

Provisional status summary issues

Provisional Definition	Artifacts (Deliverables)
Product quality may not be optimal	Product accuracy is determined for a broader (but still limited) set of conditions. No requirement to demonstrate compliance with specifications. All product deficiencies, not related to the science retrieval algorithm (such as I/O errors, QA handling etc.) are corrected.
Incremental product improvements are still occurring	Narrative, listing and discussing known errors. All DRs are either closed or are demonstrated to be worked on. Pathway towards algorithm improvements to meet specifications is demonstrated. Too limited calipso two different dates
Version control is in affect seed file	Description of the development environment, algorithm version (IDPS build number), and LUTs/PCTs versions used to generate the product validation materials. All critical documents (i.e. ATBD, OAD, CDFCB) are accurate, up-to-date and consistent with the product running.
General research community is encouraged to participate in the QA and validation of the product, but need to be aware that product validation and QA are ongoing	ADP STAR will request feedback from appropriate users for the product. The notification letter will include a Provisional Maturity disclaimer. DPA will send request to Project Science to post Provisional Maturity disclaimer on CLASS. DPA will submit readme document (#3 below) to CLASS.
Users are urged to consult the EDR product status document prior to use of the data in publications	Warning of potential non-reproducibility of results due to continuing calibration and code changes. Identify known deficiencies regarding product quality.
May be replaced in the archive when the validated product becomes available	Technical evaluation of limited data reprocessing is presented. No reprocessing
Ready for operational evaluation	Key NOAA and non-NOAA end users are identified. End use is demonstrated and user feedback is provided.