



MEMORANDUM FOR: The Record
FROM: Quanhua (Mark) Liu, JPSS MiRS Products Team Lead
SUBJECT: MiRS Land Surface Emissivity, Land Surface Temperature, Cloud Liquid Water, Sea Ice Concentration and Snow Water Equivalent Validated maturity status and public release
DATE: 04/20/2017

Validated maturity status declaration for MiRS Land Surface Emissivity, Land Surface Temperature, Cloud Liquid Water, Sea Ice Concentration and Snow Water Equivalent

Maturity Review Date: 04/20/2017
Effective Date: 04/20/2017
Operational System: Microwave Integrated Retrieval System (MiRS), Version 11.1

The JPSS Algorithm Maturity Readiness Review Board approved the release of the MiRS to the public with a Validated maturity level quality as of 04/20/2017 (effective date), based on JPSS Validation Maturity Review held on 04/20/2017 (link to review artifacts).

1. Maturity stage definition: <http://www.star.nesdis.noaa.gov/jpss/AlgorithmMaturity.php>
2. Algorithm Description:
 - List of Products (Collection Short Name (CSN)): NDE_L2_MIRS
 - Product requirements/Exclusions (L1RDS): See artifact at TBD
 - Quality flags (Table): See artifact at TBD
 - Product evaluation/validation: See artifact at TBD
 - Product availability/reliability:
 - EDR data have been produced with V11.1 since 10/2015, data prior to 10/2015 were produced with V9.2
 - Algorithm performance dependence: None.
 - Known errors/issues/limitations: Cloud Liquid Water is produced over ocean only.
3. Changes since last maturity stage: N/A
4. Review board recommendations: TBD
5. Path Forward/Future Plan: Future enhancements may include use of a forest fraction correction to aid in the snow cover detection and snow water estimation in heavily forested regions.

Additional information is available in the MiRS algorithm theoretical basis document (ATBD) and validation maturity review briefing, which can be accessed at:

<http://www.star.nesdis.noaa.gov/jpss/Docs.php>

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