



MEMORANDUM FOR: The Record
FROM: Quanhua (Mark) Liu, JPSS MiRS Products Team Lead
SUBJECT: MiRS Temperature, Water Vapor, Total Precipitable Water (TPW),
and Rain Rate Validated maturity status and public release
DATE: 10/18/2016

Validated maturity status declaration for MiRS Temperature Profile, Water Vapor Profile, Total Precipitable Water (TPW), and Rain Rate

Maturity Review Date: 10/18/2016
Effective Date: 10/18/2016
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 10/18/2016 (effective date), based on JPSS Validation Maturity Review held on 10/18/2016 (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 (LIRDS): 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: Temperature, Water Vapor, and TPW are not operational quality (validated maturity) in precipitating conditions. Rain rate is not produced over snow covered land and sea ice.
3. Changes since last maturity stage: N/A
4. Review board recommendations: TBD
5. Path Forward/Future Plan: Future enhancements may include incorporation of CLW over land in rain rate retrieval product to aid in detection and estimation of light rainfall.

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>

Point of Contact:

Name: Quanhua (Mark) Liu
Email: quanhua.liu@noaa.gov



Read-me for Data Users

Phone: 301-683-3661