

National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

Version 6 Tasks

T. Pagano
Jet Propulsion Laboratory

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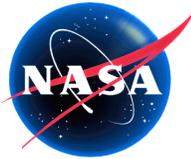


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Version 6 Priorities

- Level 1C Climate Product (New)
 - Resampled to constant spectral grid to remove very small instrument artifacts with age
- Level 2
 - Retrieve Surface Emissivity
 - Improve Boundary Layer Sensitivity
 - Yield Improvement in Critical Areas
 - Initialization State and Error Estimation
 - RTA Improvement
 - Improve OLR computation
 - Cloud Retrieval Improvement
 - Retrieve Mid Tropospheric CO₂
- Level 3
 - Reduce Sampling Bias Effects
- Validation Priorities
 - Validate all Version 5 Products



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Science Team Interests

- Joel
 - Surface Parameters (T, e)
 - Boundary Layer T, q
 - Trend Evaluations/Recommendations
 - Improved Error Estimates and QC
 - Cloud Product Improvement
 - 1 x 3 Retrievals
- Larrabee
 - L1C Algorithm
 - RTA Scattering Algorithm
 - Additional RTA Tasks
 - Dust
 - Cirrus (Kahn Support?)
 - OLR
- Blackwell
 - SCC/NN Investigation
- Barnet
 - Bias Trends Removal
 - Cloud Clearing vs Warmest FOV
 - CO₂, CH₄, HNO₃, N₂O
 - SO₂
 - O₃ First Guess (w/Pan, etc.)
 - CAPE, LI + Convective Products
 - 1x3 (NOAA Interest, SPORT, Forecasters, etc.)
- Goldberg
 - Initialization State (Regression Coefficients)
 - Maintain RT System
- Rosenkranz
 - Updated MW RTA

Actual Tasks Pending Available Funding

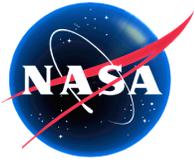


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JPL Tasks

- L1B/L2 Interface Improvements
- L1C Algorithm Support
- Surface Emissivity - Mous
- Cirrus Algorithm Support and Test
- Testing in Critical Areas (Dust, Polar, Near Clouds)
- Support Channel Filling/Regression Algorithm
- SCC/NN Testing Support
- Trace Gas Support
 - See Bill Irion's Talk
- Integrate All Algorithm Improvements
- L3 Improvements
- Validation Plan and Coordination



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Trace Gases

- Trace Gases
 - Limited NASA Support
 - NOAA support TBD
- Ozone
 - Wei: Algorithm Improvements
 - JPL: Validation
- CO
 - McMillan: Has Funds to Complete V5 Validation
 - McMillan: Needs Funds for Validation
- CH₄
 - Wallace Needs Funds for Validation
- SO₂
 - Matt Watson: NASA Funding
- Dust
 - Project: Needed to improve core products
 - Strow: Algorithm Improvements available, need funds
- HNO₃
 - Low Priority
- CO₂
 - TBD