Algorithm and User Assessments

Mitch Goldberg
JPSS Program Scientist
**General Comments Form**

**2914 STAR JPSS Science Teams Annual Meeting**  
**May 12–16, 2014**  
**NCWCP, College Park, MD**

<table>
<thead>
<tr>
<th>Originator Name:</th>
<th>Phone #:</th>
<th>Org</th>
</tr>
</thead>
</table>

**Title:**  
Comment/Recommendation (include presentation section and page #)

**Rationale:**

**Clarification:**

<table>
<thead>
<tr>
<th>Assigned To:</th>
<th>Assignee Phone #</th>
</tr>
</thead>
</table>

**Date Closed:**
Algorithm Assessments

- IDPS algorithms we need the following assessment:
  1. NPOESS algorithm has evolved into the NOAA-endorsed JPSS algorithm.
  2. NPOESS algorithm will not meet requirements or effort is too large, replace with NOAA-endorsed JPSS algorithm.
  3. NOAA-endorsed algorithm should be used even if NPOESS algorithm meets performance because of legacy, enterprise, blended products, and other considerations.

- All algorithms
  1. Are the algorithms meeting the specifications?
  2. Are the validation plans sound and include user feedback?
  3. What is the long-term strategy for enhancements including data fusion?
Users Assessments

• Describe how SNPP/JPSS products provide continuity from legacy POES, METOP, DMSP, EOS?
• For new capabilities from SNPP/JPSS describe the benefits
• Provide Details on:
  – when do you plan to use the SNPP/JPSS Product?
    • Is there an actionable plan?
    • Is it funded?
    • What is the priority?
    • How have you documented the decisions for the use of SNPP/JPSS data?
    • Have you thought about how you will get the data and have you identified the issues with your operational use of SNPP/JPSS?
  – What improvements do you expect from SNPP/JPSS?
  – Are the current legacy products well utilized?
  – Is the SNPP/JPSS product part of a blended product?
  – What additional work needs to be done to ensure that the SNPP/JPSS product is/will be well utilized?
Are enhancements needed for:

- Accessibility (data flow, latency, format)
- Product performance (accuracy, precision)
- User applications (modifications to modeling, decision tools, visualization to use the new products)
For breakout meetings Thursday 10:30 - 2:30

- Answer the questions on slides 3 and 4
- Report back at 1:30
Breakout groups

• Land data assimilation (Mike Ek, Ivan Csizsar) – Gary McWilliams

• Cryosphere (Sean Helfrich, Jeff Key) – Ray Godin

• Imagery /cloud applications (Michael Folmer, Don Hillger, Heidinger, Bill Ward) – Victoria Ozokwelu and Bill Sjoberg

• CrIS atmospheric chemistry (CO, CH4...) (Monika Kopacz, Chris Barnet) – Laura Ellen Dafoe

• CriS OLR (Pingping Xie, Mark Liu) – Murty Divakarla

• Microwave precipitation (Ralph Ferraro, Limin Zhao, Dave Kitzmiller) – Lance Williams

• Ozone monitoring (Craig Long, Larry Flynn) – Wayne Feltz

• VIIRS aerosol assimilation (Shobha Kondragunta, Sarah Lu) Julie Price

• Ocean color (Menghua Wang, Rick Stumpf, Cara Wilson, EMC?) – Arron Layns

• SST (Alexander Ignatov, Ken Casey, Bob Grumbine) – John Furgerson