

**CCSDS Multispectral & Hyperspectral Data Compression Working Group**  
**Spring 2017 Meeting Agenda – San Antonio, TX USA**  
(Draft of April 27, 2017)

**May 9 (TUES) – AM (8:15–12:00) & PM (13:00–16:45)**

- CCSDS-122.1-B, *Spectral Pre-processing Transform for Multispectral & Hyperspectral Image Compression*:
  - Status update of CCSDS-122.0-B Pink Sheets – UAB (MHDC-A-1610-1)
  - Review & resolve RIDs from Agency Review of Red Book CCSDS-122.1-R – ALL
  - Review Green Book CCSDS-120.3-G – UAB & ALL
  - Plans/timeline for Blue Book CCSDS-122.1-B
- CCSDS-121.0-B-2, Lossless Data Compression
  - Due for reconfirmation review. Revisions warranted? – ALL
- CCSDS-123.1-B: Extension of lossless CCSDS-123.0-B-1 to provide near-lossless compression of multispectral & hyperspectral imagery:
  - Fast prediction Mode (MHDC-A-1610-6) – ESA
  - Simplified Entropy Coder (MHDC-A-16160-5(a)3) and Entropy Coder specification (MHDC-A-1610-6) – JPL
  - Generalized Prediction Representatives (MHDC-A-1610-4) – JPL
  - Custom Weight Initialization (MHDC-A-1610-6) – JPL

**May 10 (WED) – AM (8:15–12:00) & PM (13:00–16:45)**

- CCSDS-123.1-B: Extension of lossless CCSDS-123.0-B-1 to provide near-lossless compression of multispectral & hyperspectral imagery:
  - Relative Error (MHDC-A-1610-5(a)2) – ESA
  - HVS quantization (MHDC-A-1610-6) – CNES
  - Signaling quantization stepsizes / rate control (MHDC-A-1610-6) – ESA
  - Header Structure (MHDC-A-1610-6) – ALL
  - Review White Book (MHDC-A-1610-6). Establish plans to resolve remaining elements of CCSDS-123.1-B and produce Red Book. – ALL
    - General question: should near-lossless compression be a separate document (123.1-B, as currently planned), or incorporated in an Issue 2 revision of 123.0-B?

**May 11 (THU) – AM (8:15–12:00)**

- Compressing Spacecraft Housekeeping Telemetry – Dave Evans / ESA
- Continue discussion of CCSDS-123.1-B, as needed
- Review outstanding action items
- Wrap up, assign new action items