

Multispectral & Hyperspectral Data Compression Working Group
Fall 2014 Meeting Agenda – London, ENGLAND
(Draft of October 31, 2014)

Nov 10 (MON) – PM (13:30–17:30)

- Review of CCSDS-120.1-G-1, *Image Data Compression* (Green Book for CCSDS-122.0-B-1) to assess potential changes for reconfirmation/update (MHDC-A-1404-2) – GSFC
- CCSDS-122.0-B-2, *Image Data Compression*, review of areas requiring revision (MHDC-A-1404-1) – UAB

Nov 11 (TUE) – AM (8:45–12:30) & PM (13:30–17:30)

- CCSDS-120.2-G, *Lossless Multispectral & Hyperspectral Image Compression* (Green Book for CCSDS-123.0-B-1) – JPL, ALL
 - Review of revised draft Green Book (MHDC-A-1404-3)
 - Plans & timeline for final editing of Green Book
- White Book for CCSDS-122.1-B, *Spectral Pre-processing Transform for Multispectral & Hyperspectral Image Compression*:
 - Possible “default” bit-accurate method of calculating training parameter and mean value (MHDC-A-1404-4) – UAB, ESA, ADS
 - Rate-distortion benefit of upshift/downshift operations (MHDC-A-1404-5) – UAB
 - Assessment of POT rate-distortion results (MHDC-A-1404-6) – ADS
 - Status of IWT & IPOT cross-verification efforts (MHDC-A-1404-7) – UAB, GSFC
 - Review of images in the corpus regarding streaking artifacts and extent of hyperspectral images available (MHDC-A-1404-8) – UAB
 - Correctness of allowing variable number of IWT levels (MHDC-A-1404-9) – UAB

Nov 12 (WED) – AM (8:45–12:30) & PM (13:30–17:30)

- Outcome of Onboard Payload Data Compression Conference – ESA (Vitulli/Magli)
- HW implementations of ESA/PoliTo predictive lossy compression algorithm – ESA (Vitulli/Magli)
- Continue discussion of: White Book for CCSDS-122.1-B, *Spectral Pre-processing Transform for Multispectral & Hyperspectral Image Compression* (see subtopics enumerated above)
- Review outstanding action items
- Wrap up, assign new action items