

**LCLUC MuSLI Science Team Meeting, 2016**  
*(Invited speakers and invited guests only)*  
**20<sup>th</sup>-21<sup>st</sup> April 2016, Marriott Conference Center, North Bethesda, MD**

**Agenda**

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**Day 1 (April 20<sup>th</sup>, Wednesday)**

<b>9:00-10:40</b>	<b>Session I. Introduction Session</b>
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- 9:00 Welcome and MuSLI program status - Garik Gutman (NASA HQ)
- 9:20 Meeting objectives and agenda - Jeff Masek (NASA GSFC)
- 9:40 ESA Status of Sentinel program and contribution to LCLUC/MuSLI component - Benjamin Koetz (ESA)/Olivier Arino (ESA)
- 10:00 Update on US Land Imaging – Jeff Masek (NASA GSFC)
- 10:20–10:40 Break

<b>10:40-11:20</b>	<b>Session II. Sentinel Data Accessibility</b>
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- 10:40 Sentinel 2 data accessibility for US MuSLI investigators - John Dwyer (USGS EROS Data Center)
- 11:00 Sentinel 1 data accessibility at the ASF – Drew Kittel (NASA GSFC)

<b>11:20-2:20</b>	<b>Session III. LCLUC Studies Fusing Optical and Radar Data</b>
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- 11:20 Operational algorithms and products for near real time maps of rice extent and rice crop growth stage using multi-source remote sensing - Bill Salas (Applied GeoSolutions, LLC)/Thui Le Toan (CESBIO) –presented by Nathan Torbick (Applied Geosolutions)
- 11:40 Towards near daily monitoring of inundated areas over North America through multi-source fusion of optical and radar data – Chengquan Huang (U. Maryland) / Irena Creed (Canada)
- 12:00 Multi-source imaging of time-series tree and water cover at continental to global scales - John Townshend (U. Maryland) / Christiane Schmullius (FS Jena U., Germany)
- 12:20 – 1:30 Lunch
- 1:30 Multi-source imaging of infrastructure and urban growth using Landsat,

Sentinel and SRTM - Chris Small (Columbia U.) / Thomas Esch (DLR, Germany)

1:50 Discussion of optical – radar data fusion methodologies

<b>2:20-4:40</b>	<b>Session IV. Parallel European Science Activities</b>
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2:20 Sentinel-2 for Agriculture and Climate Change Initiative - Land Cover: current achievements of two ESA projects - Pierre Defourny (UCLouvain, Belgium)

2:40 ISLAND2VA activities - Patrick Griffith (U. Humboldt, Germany)

3:00-3:20 Break

3.20-3:40 Group Photo

3:40 New Products from Merged Satellite Records - Kevin Murphy (NASA HQ)

4:00 GlobBiomass - Christiane Schmallius (FS Jena U., Germany)

4:20 Discussion of NASA-EU project interactions - Jeff Masek/Ben Koetz

4:40 – 6:00 Reception

6:00 Adjourn

## Day 2 (April 21<sup>st</sup>, Thursday)

### 9:00-10:40 Session V. Pre-processing Activities

- 9:00 Sentinel-2A MSI Radiometric and Geometric Calibration analysis by the Landsat Calibration Team- Julia Barsi (NASA GSFC) / Brian Markham (NASA GSFC)
- 9:20 Pre-processing algorithms for deriving reflectance from S2 and Landsat - Olivier Hagolle/Gerard Dedieu (CESBIO, France) presented by Martin Claverie (UMD)
- 9:40 Harmonized Landsat/Sentinel (HLS) overview - Martin Claverie (UMD) / Junchang Ju (NASA GSFC) / Jennifer Dungan (NASA ARC)
- 10:00 Reflectance products from Landsat and Sentinel-2 - Belen Franch (UMD) / Jean-Claude Roger (UMD) / Eric Vermote (NASA GSFC) / Sergii Skakun (UMD) / Chris Justice (UMD)
- 10:20 Options for gridding and mapping - Jeff Masek (NASA GSFC)
- 10:30 Cloud/cloud shadow detection technique update - Curtis Woodcock (Boston U.)
- 10:50-11:00 Break

### Session VI. Higher Level Products from Optical Data

- 11:00 Importance of higher-level products for NASA LCLUC projects - Chris Justice (U. Maryland)
- 11:20 Prototyping a Landsat-8 Sentinel-2 global burned area product - David Roy (South Dakota State U.) / Emilio Chuvieco (U. Alcalá)
- 11:40 Multisource imaging of seasonal dynamics in land surface phenology: a fusion approach using Landsat and Sentinel-2 - Mark Friedl (Boston U.) / Patrick Griffith (Humboldt-Universität zu Berlin)
- 12:00 Integrating Landsat 7, 8 and Sentinel 2 data in improving crop type identification and area estimation - Matt Hansen (U. Maryland) / Pierre Defourny (UCL)
- 12:20- 1:30 Lunch
- 1:30 Discussion of product development
- 2:00 Discussion of Action Items and Next Steps
- 2:30 Adjourn