Status of MODIS LST&E (MxD21)

Status and Updates:
- MODIS LST products had most downloads at LPDAAC during 2018-2020
- MOD21 LSTE Terra products in C6 affected by b29 crosstalk
- Issue is addressed in C6.1 with updated calibration
- New CMG products available in C6.1 in addition to near-real time processing with GEOS5 atmospheric data

MOD21 LST&E Products:

Collection 6: (Released Fall 2018)
- MxD21 L2: Daily 5-min L2 Swath 1km
- MxD21A1: Daily L3 Global 1km
- MxD21A2: 8-day L3 Global 1km

Collection 6.1: (in processing)
- MxD21C1: Daily 0.05 degree Climate Modeling Grid (CMG)
- MxD21C2: 8-day 0.05 degree Climate Modeling Grid (CMG)
- MxD21C3: Monthly 0.05 degree Climate Modeling Grid (CMG)

Known Issues and Concerns:
- Currently there are two product streams (MxD11/MxD21) with 10 different product types (could streamline to 6 products)
- No plan forward to retire MxD11 suite of products
- Validation shows similar accuracy over vegetated regions, with MxD21 having higher accuracy over arid/semi-arid

Recent Publications: