





RPW Consortium #25

Operations: LTP02 overview (July-Dec 2020)



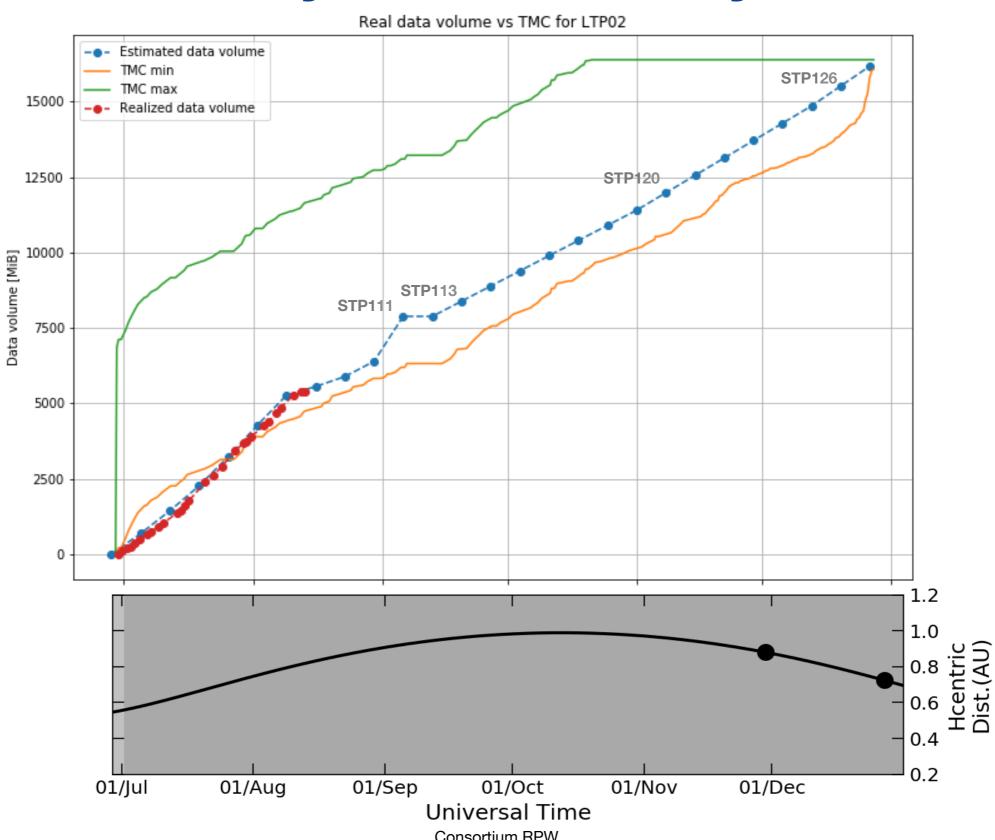










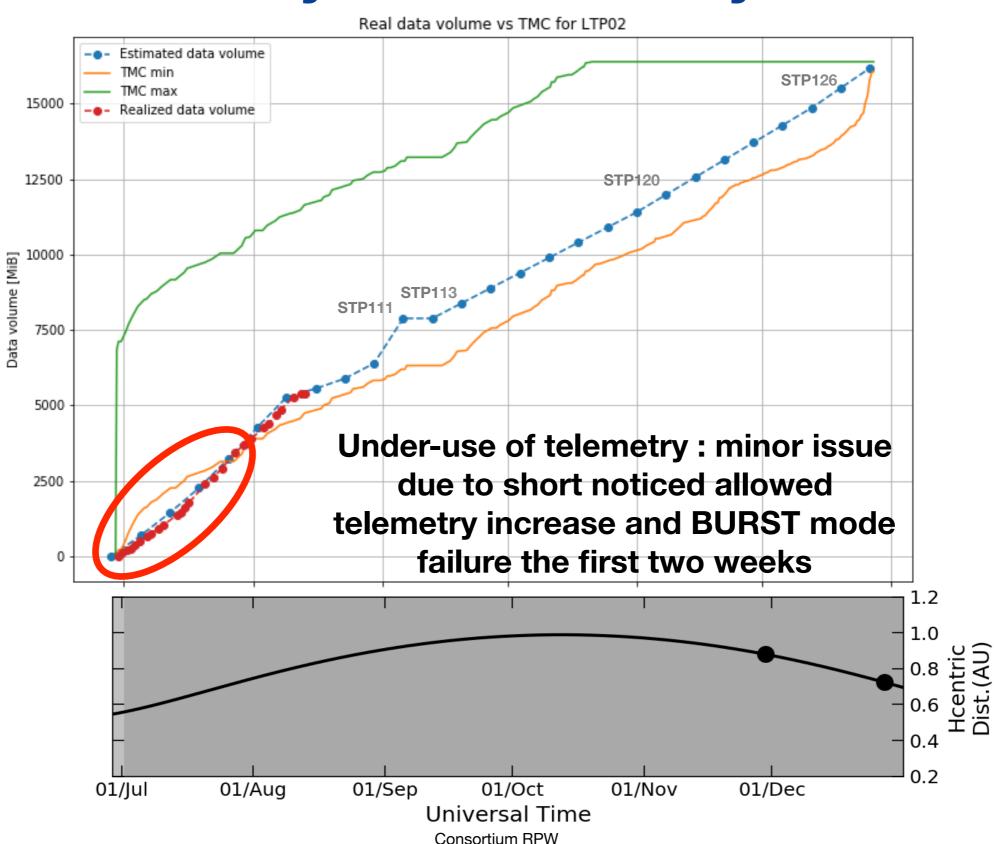










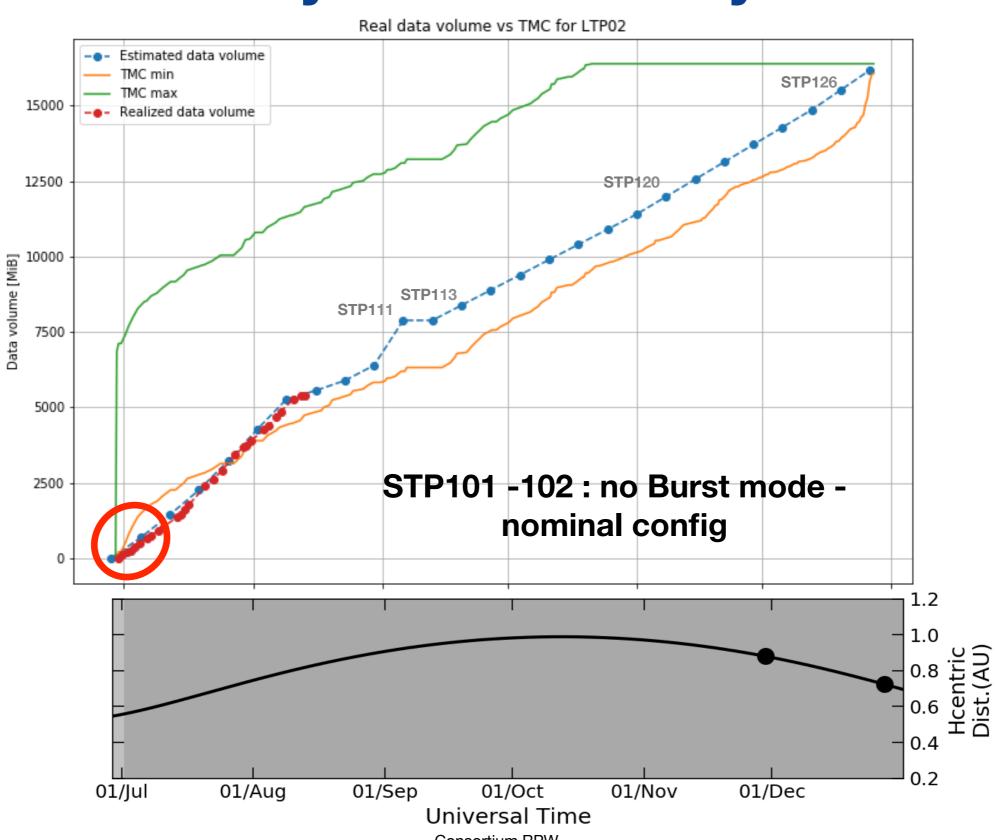








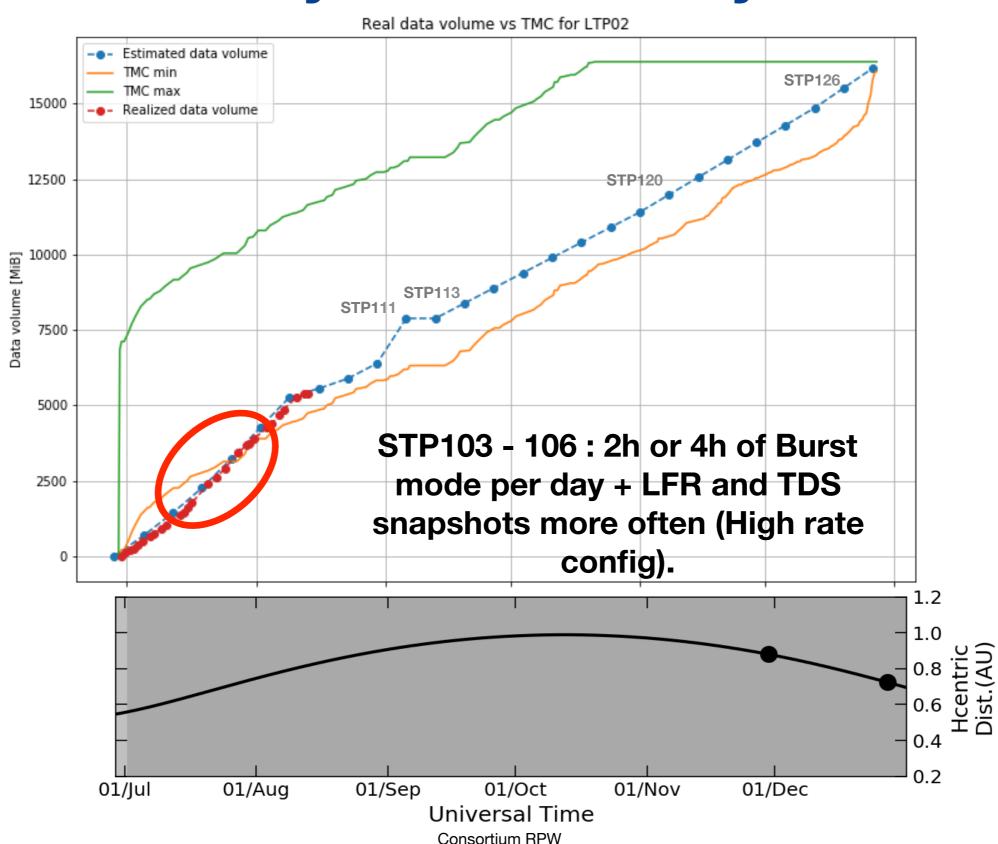








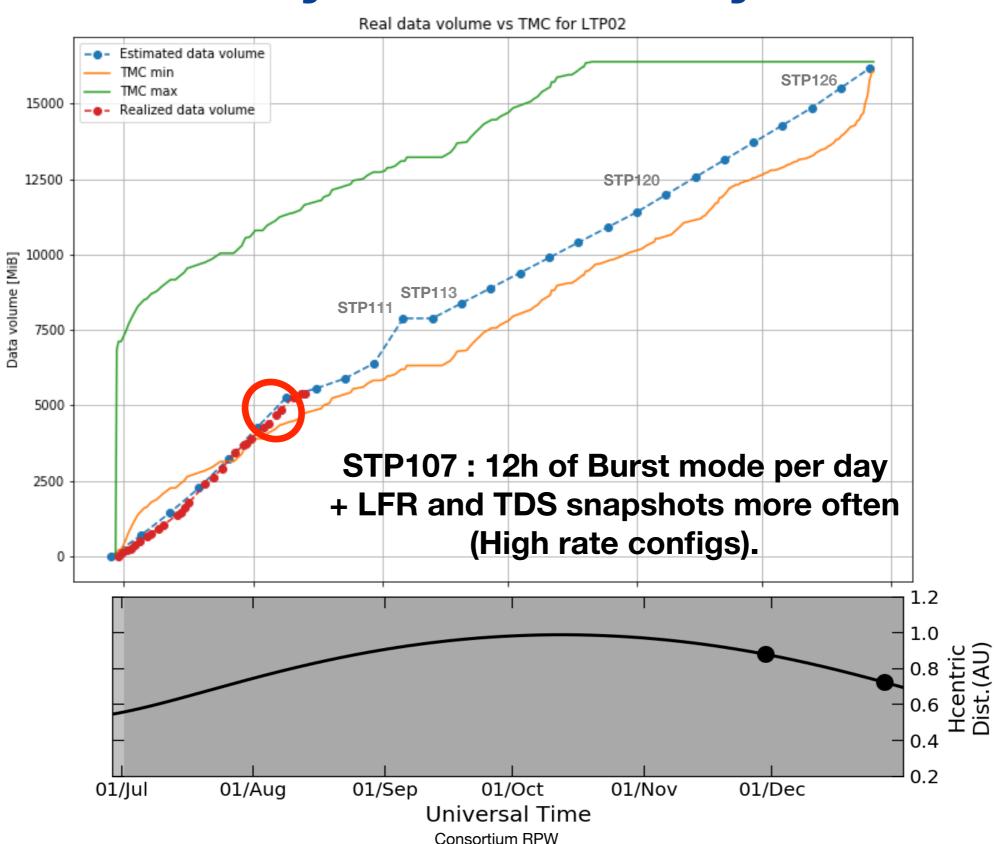








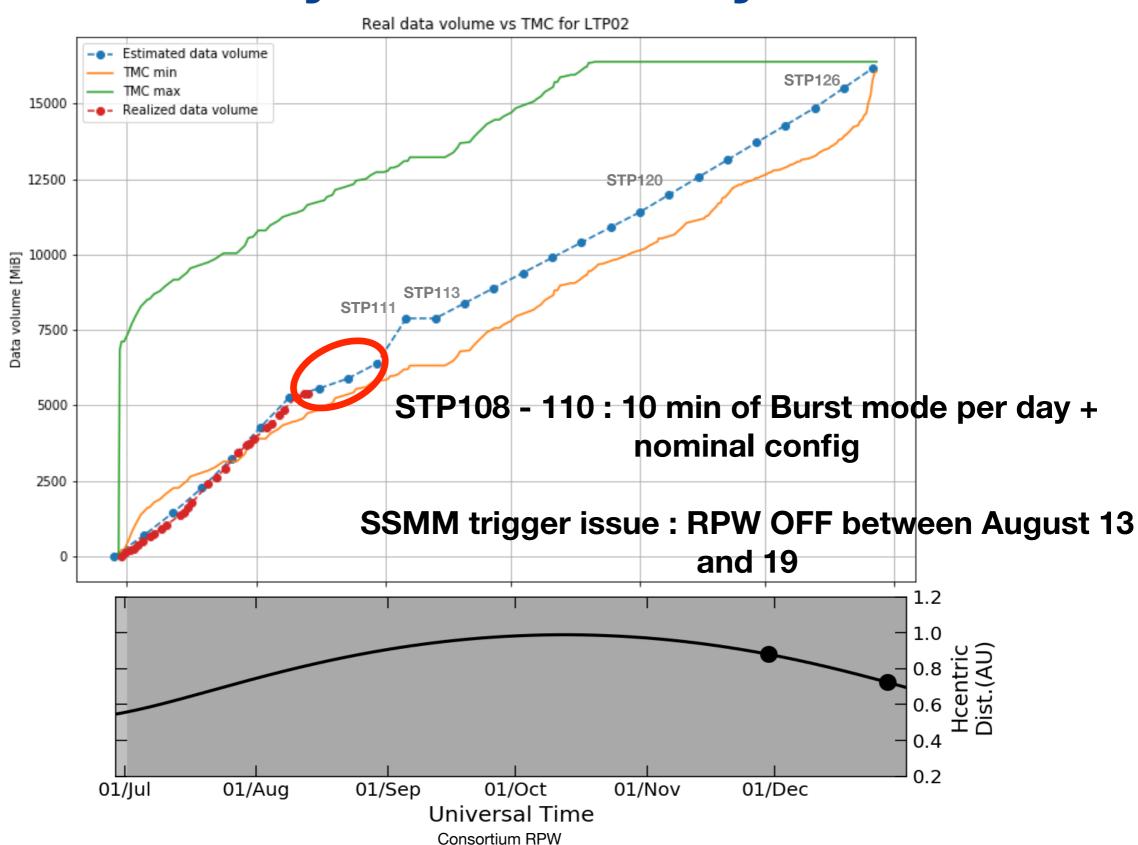








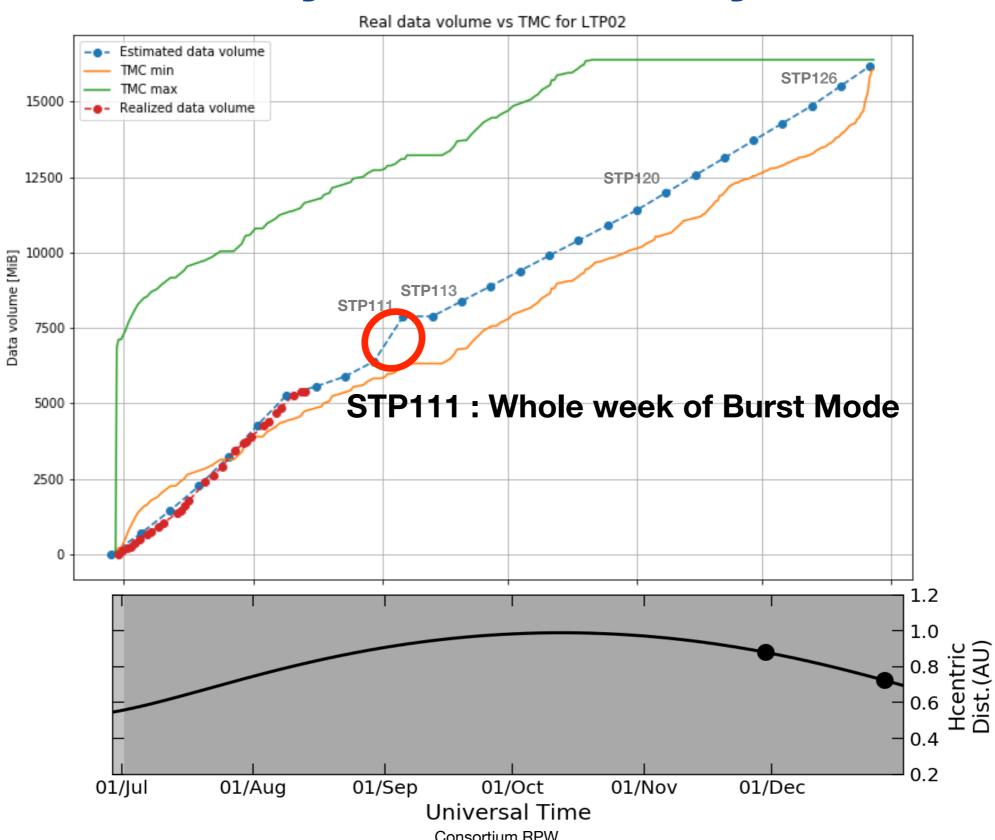










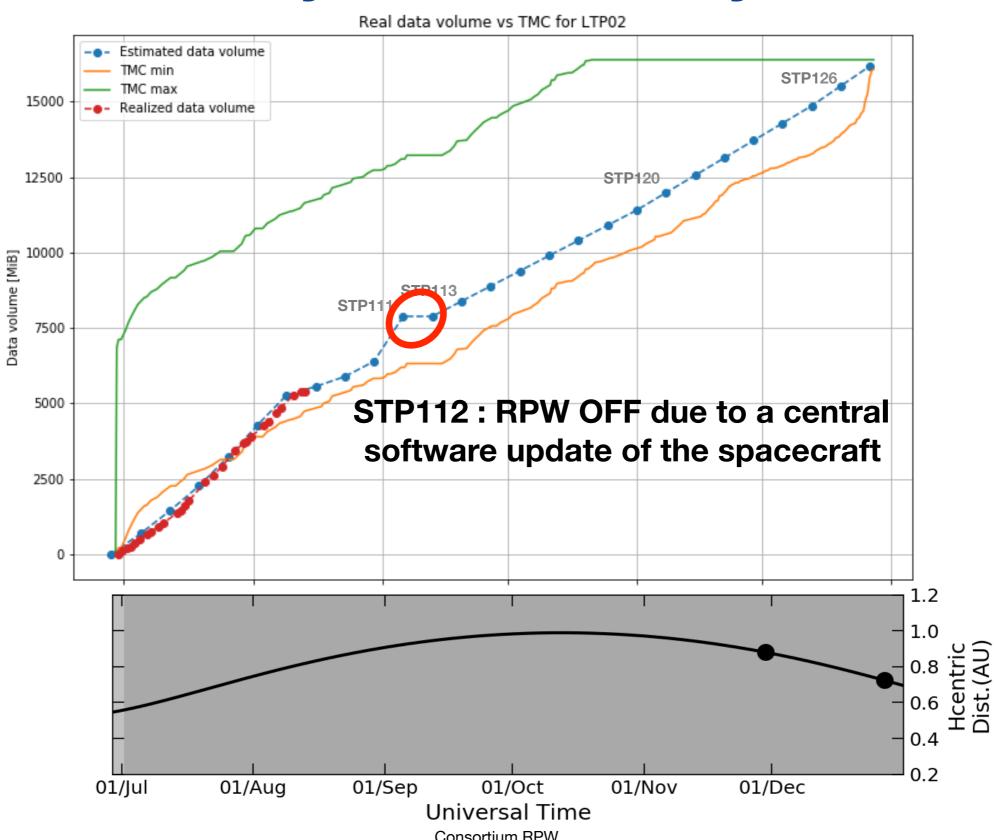










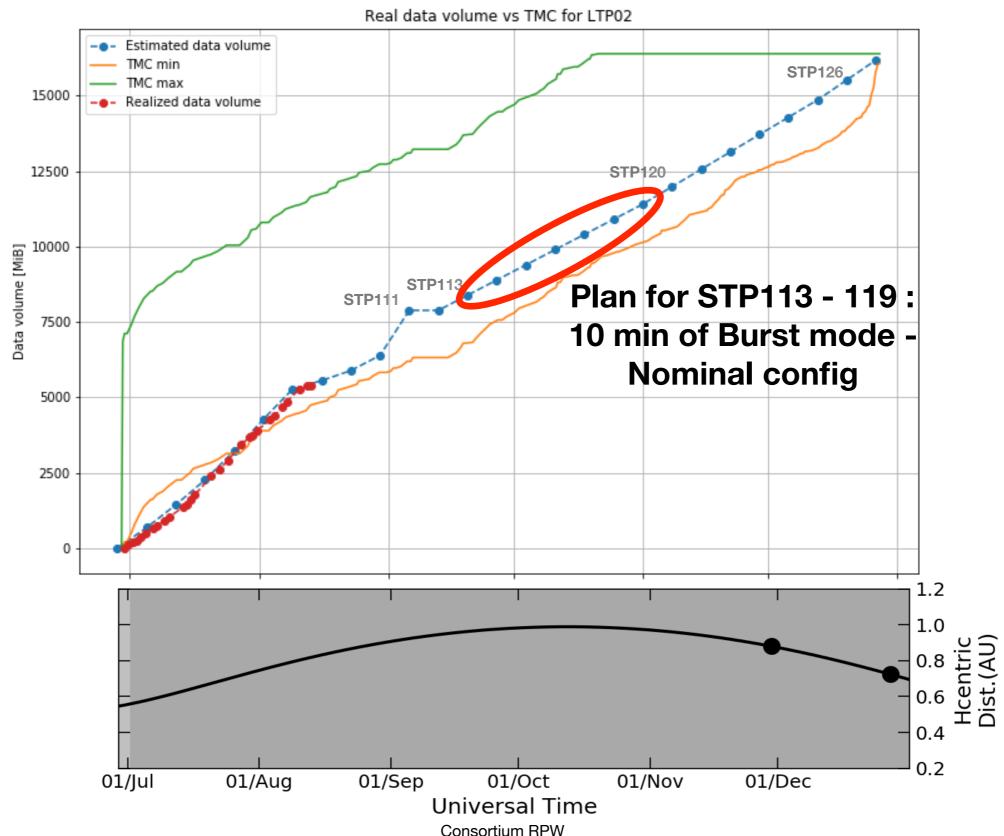








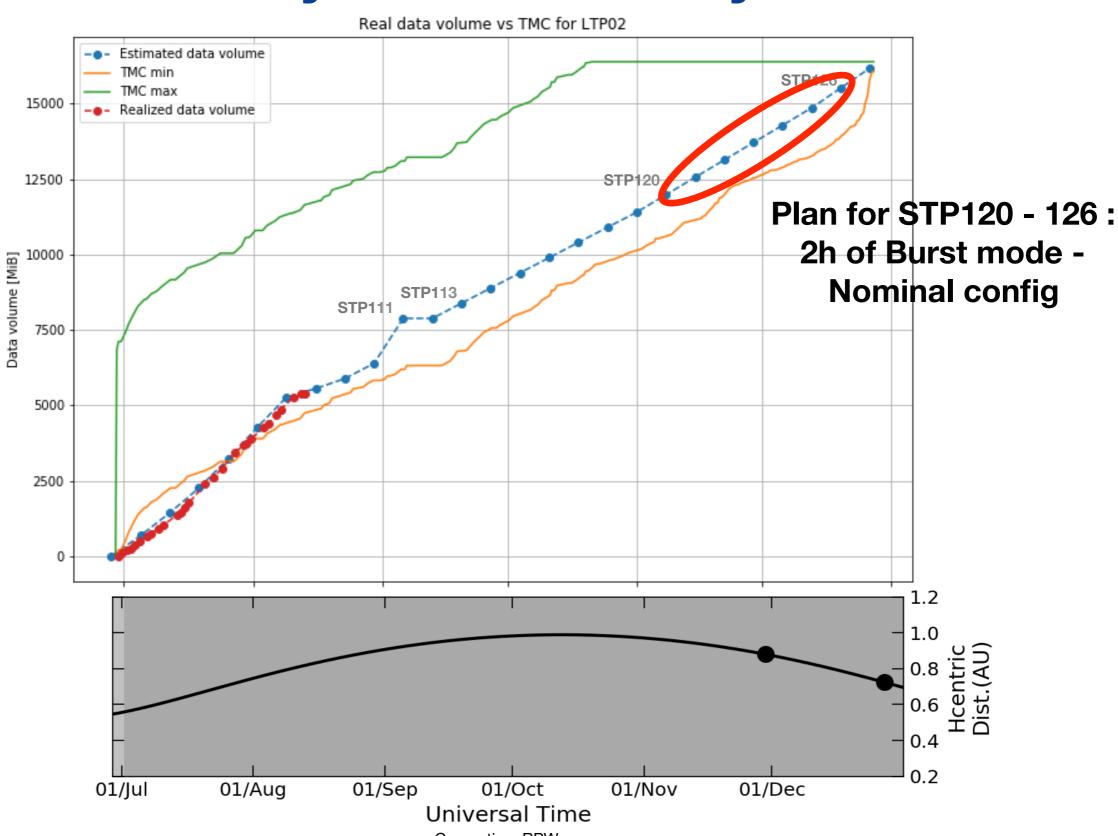










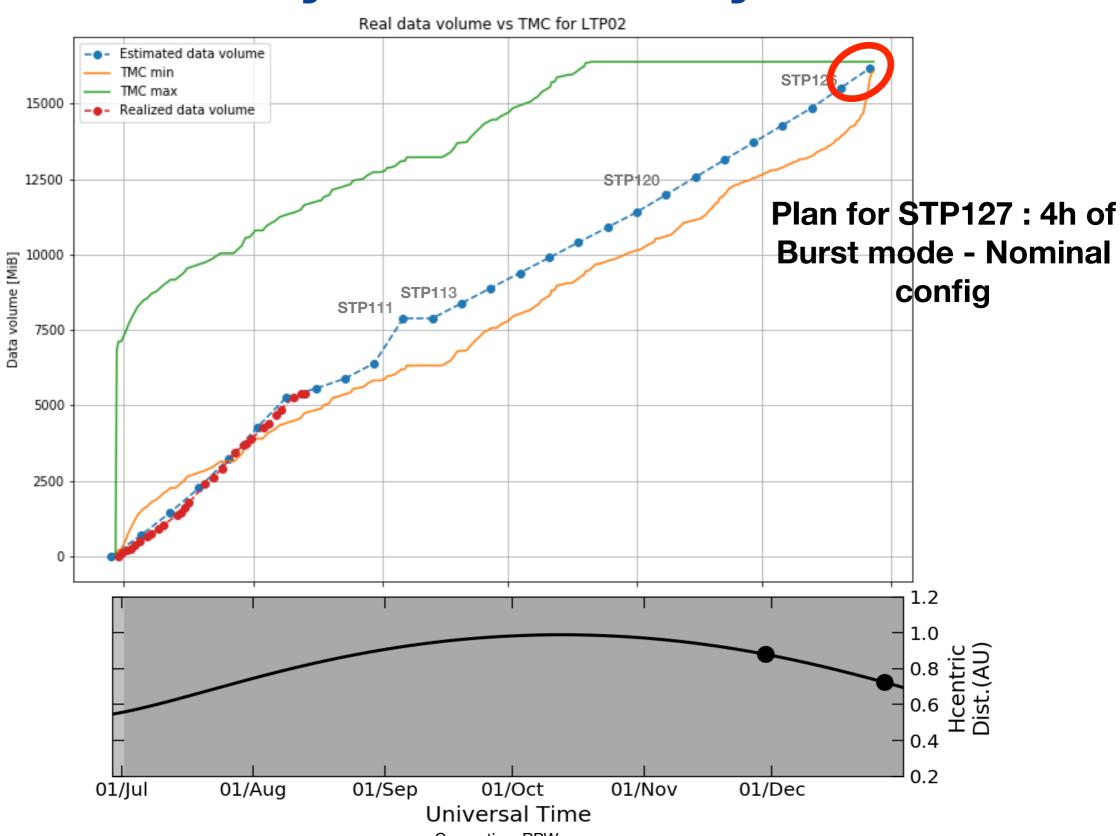


















Main anomalies

Two major issues have been highlighted during the CP:

BIAS sweep: they seem to be shorter than expected evenso from an operationnal point of view, there is no issue... —> under investigation

BURST mode : Tricky to manipulate

- One of RPW requirements is that snapshots (LFR and TDS) are synchronized with SWA measurements. It works perfectly since CP in Normal and SBM mode but not in Burst mode —> Impossible to synchronized snapshots in long period of Burst mode without a software update
- At the beginning of CP, we lost several slots of Burst because we were triggering SBM1 mode too often —> It's not possible to enter Burst mode if RPW is dumping SBM data

Two minor issues:

- SBM buffer emptying too slowly in case of high rate normal data
- Compression algorithm unefficient for TDS products





Future operations goals

Goals for the end of CP:

- To tune the parameters for SBM detection —> For now, RPW acquires SBM data but we
 don't retrieve them on ground —> Allow us to get statistics and work on parameters tuning.
- To re run some parts of EMC and/or IIC campaign (TBC after data studies)