TDS calibration software status

Jan Souček, David Píša & the TDS team

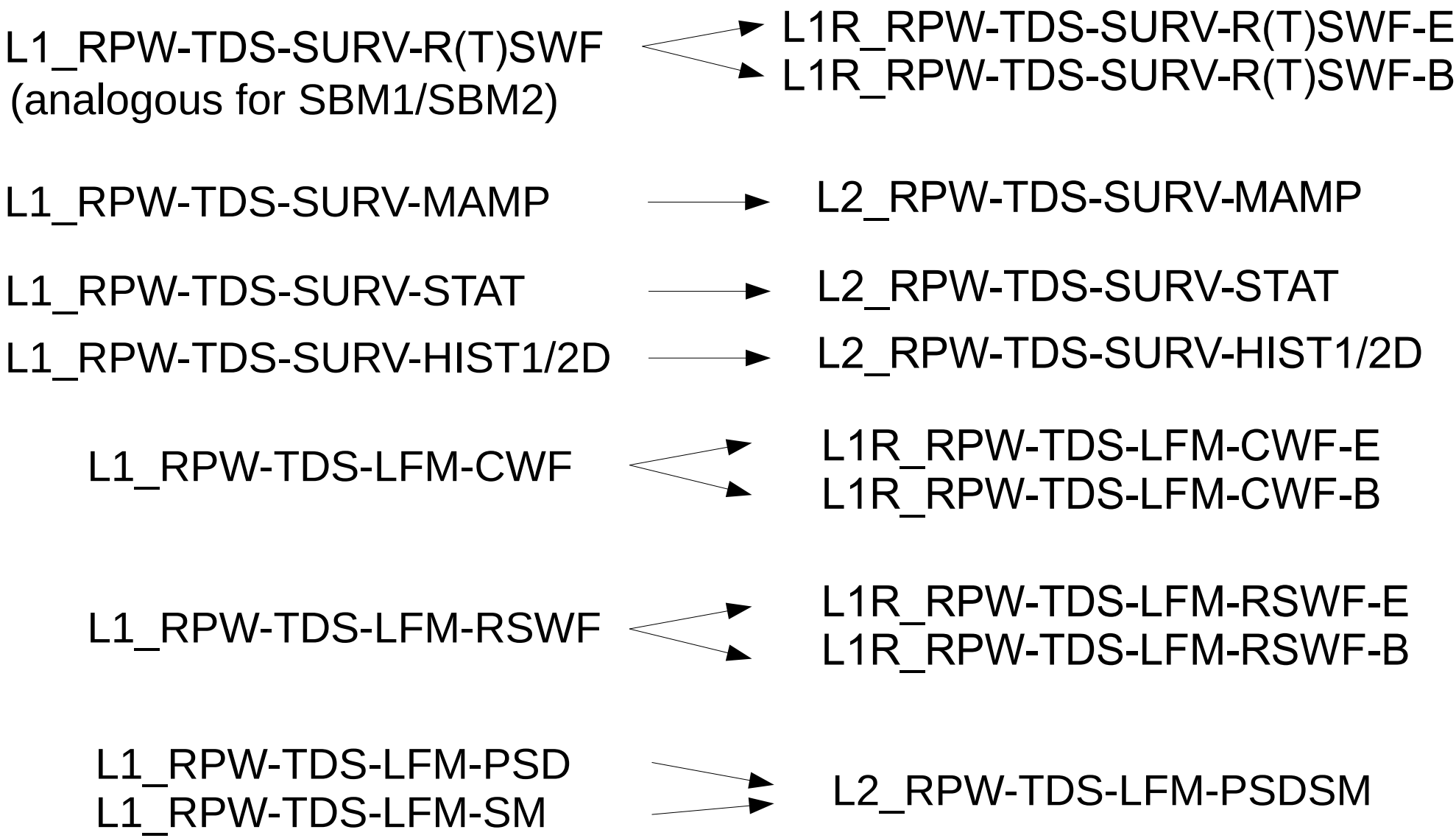
Institute of Atmospheric Physics, Prague, Czech Republic

TDS calibration software

- **CALBA software:** software to convert L1 to L1R / L2
- Waveform data:
  - L1R data produced instead of L2R
  - Waveforms still in telemetry units
  - TDS metadata decommutated, files made user friendly for L1R → L2 software
  - E and B components separated
  - L1R files include information about what TDS transfer function to use (index).
- Other products (statistics, LF spectra, histograms)
  - L2 data produced directly by CALBA
  - Transfer functions applied by CALBA

CDF data product scheme

Data product logic:



CDF Master files status

- Skeletons for L1R/L2 V03 finalized
  - Committed to git
  - Some global attributes still need updating for RODP compliance
- Format for transfer functions provided to SCM/BIAS teams defined
  - Skeletons for HF mode RSWF/TSWF products committed
  - LFM RSWF/CWF skeletons not committed, but almost ready to be delivered

TDS-CALBA software status

- TDS-CALBA software
  - Written in IDL/bash
  - Designed to be ROC pipeline compliant
- Version 0.6.0 (last release)
  - Now obsolete (producing L2R data)
- Version 0.7.0 (to be released in December 2017)
  - L1 → L1R and L1 →L2
  - Compatible with latest CDF format V03
  - Full parsing of TDS metadata
  - Frequency dependent transfer functions
- Documentation (to be delivered with first release)
  - User manual
  - Software Requirements Specification