VHF satellite attitude & position

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- During GRB-Alert mode and ToO-MM mode
- Centralized tools for conversion in svom.utils package
- Product SATORB_VHF.fits
 - Extension #1 SATATT

TIME	QPARAM	POINTING	ORIGIN	OBSID
	[q0, q1, q2, q3]	Ra, Dec, Roll	Pkt apid	

- Extension #2 SATPOS

TIME	POSITION	POSITION_ SPHERICAL	ORIGIN	OBSID
	X, Y, Z	LON, LAT, ALT	Pkt apid	

GRB-Alert mode

- Launched by BURST_ID
- Product per BURST_ID
- Time coverage :
 - Slew [Tb0 150 s; Tb0 + 24 h]
 - 150 s = beginning of LC
 - 24 h = 14 nominal orbits after slew+ 1 extra orbit
 - No slew [Tb0 150 s; Tb0 + 2*orbit ?]
- Duration of the pipeline: ~ 24 h
 - Mode "delayed"
 - Request to VHF-DB every 1 min during 3 orbits (~ 288 min)
 - Requests to VHF-DB every 30 min the rest of the time
 - Request to SDB (OBLC_ECL.fits)
- Update of the product in SDB (~ 327 times)

ToO-MM mode

- Launched by OBS_ID +
 (OBPHOTMM_MXT, OBPOS_MXT,
 OBATT_VT)
- Product per OBS_ID
- Time coverage : tile duration
- Duration of the pipeline: 4-5 sec x N times
 - Request to SDB
 (OBPHOTMM_MXT.fits,
 OBPOS_MXT.fits,
 OBATT_VT.fits)
 - Request to VHF-DB with time range from extracted from products above
- Update of the product in SDB