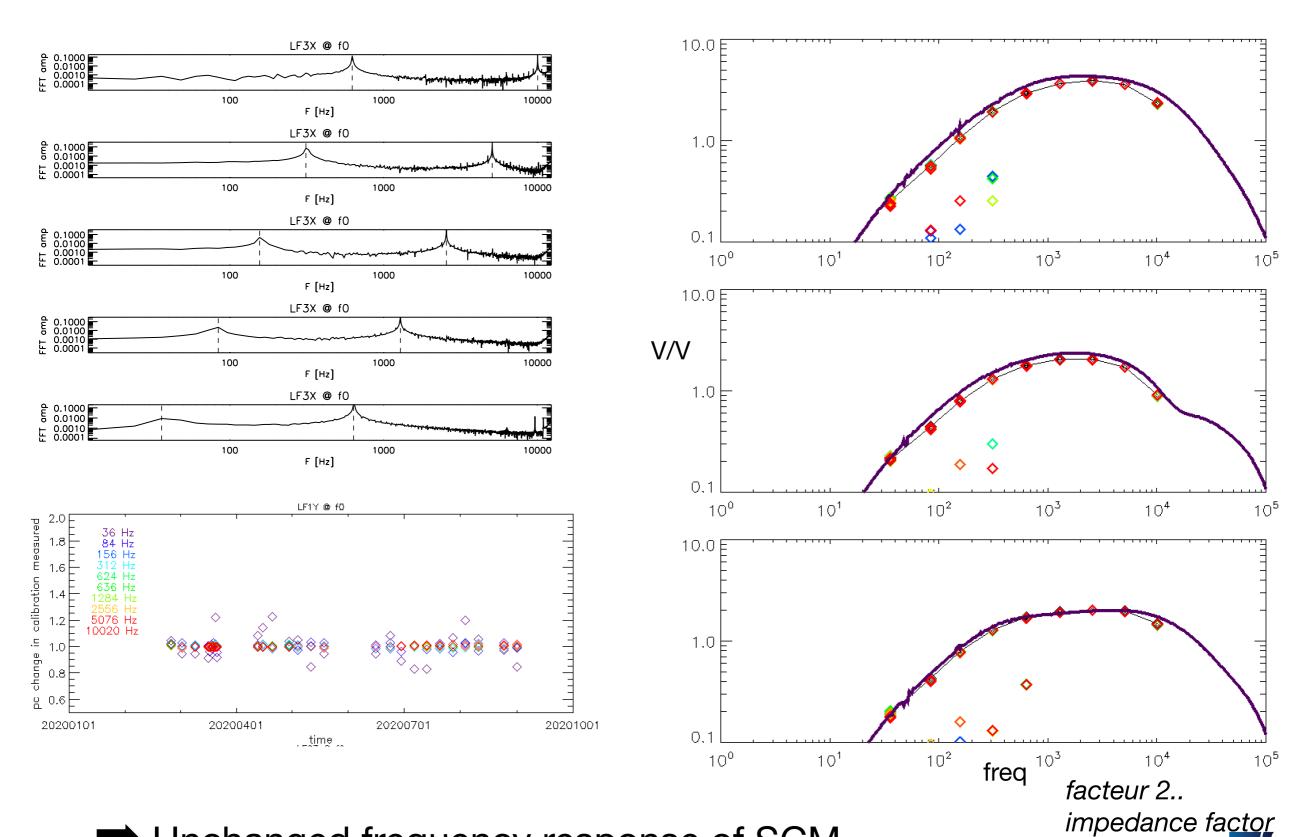


Overview

- SCM is performing well.
- New team member: Jérémie Pragout
- Unchanged frequency response of SCM
- SCM affected by HI and EUI
- Software: new version of squeletons & scmcal: quality bitmask is set (bit0: SCM outworking or unknown temperature, bit1: SCM heater on/off transition, bit2: LFR onboard calibration signal is ON)
- Data overview



SCM onboard calibration

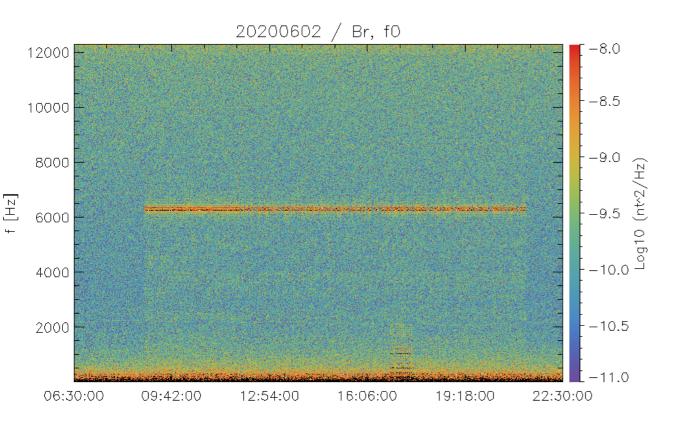


Unchanged frequency response of SCM

0 RPW

Results from EMC campaing

12000



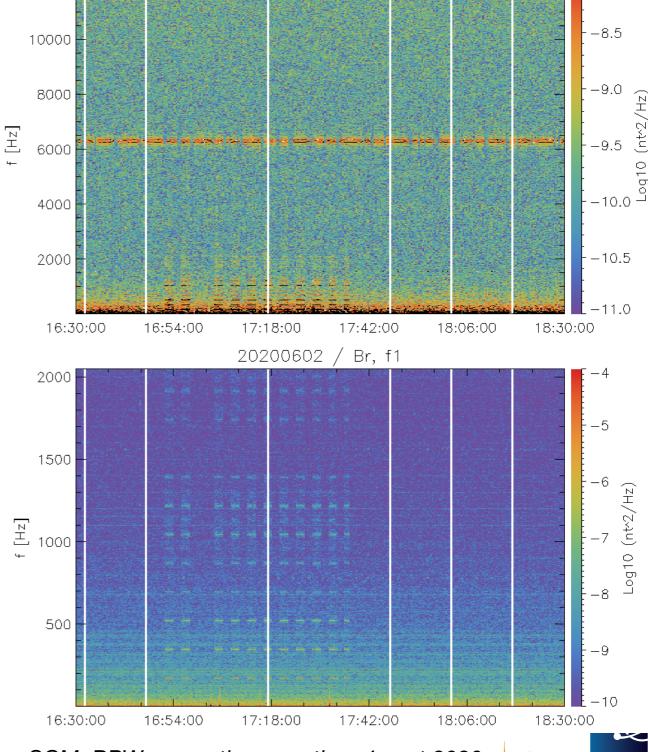
8:47: SoloHI standby power on

21:17 SoloHI Off

16:47 EUI to EMC Mode 2

17:47 EUI to EMC Mode 1a+

Other instruments do not seem to affect strongly the magnetic field

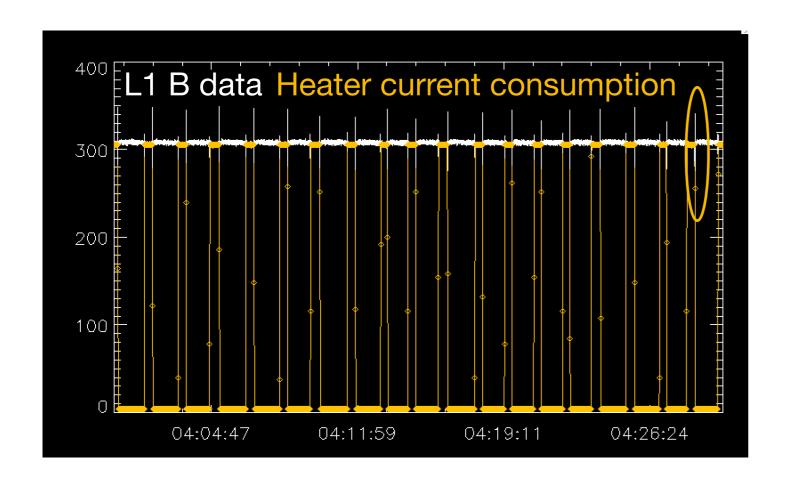


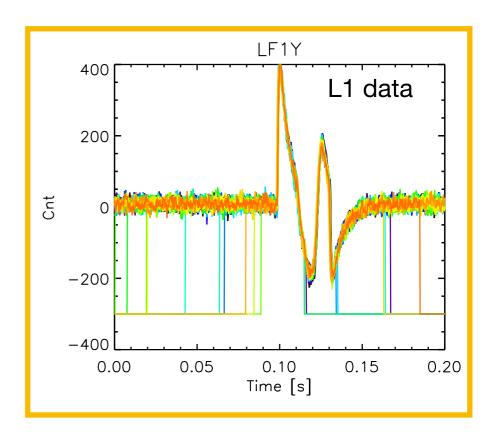
20200602 / Br, f0

SCM, RPW consortium meeting, 4 sept 2020



SCM heaters

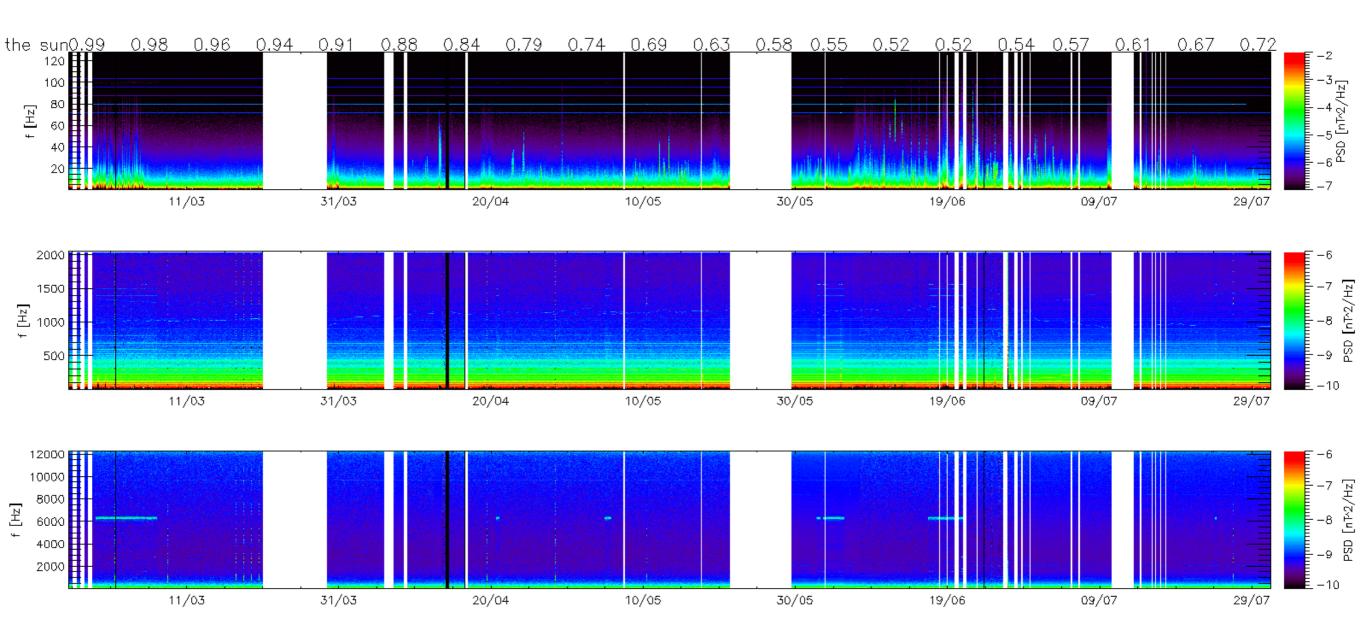




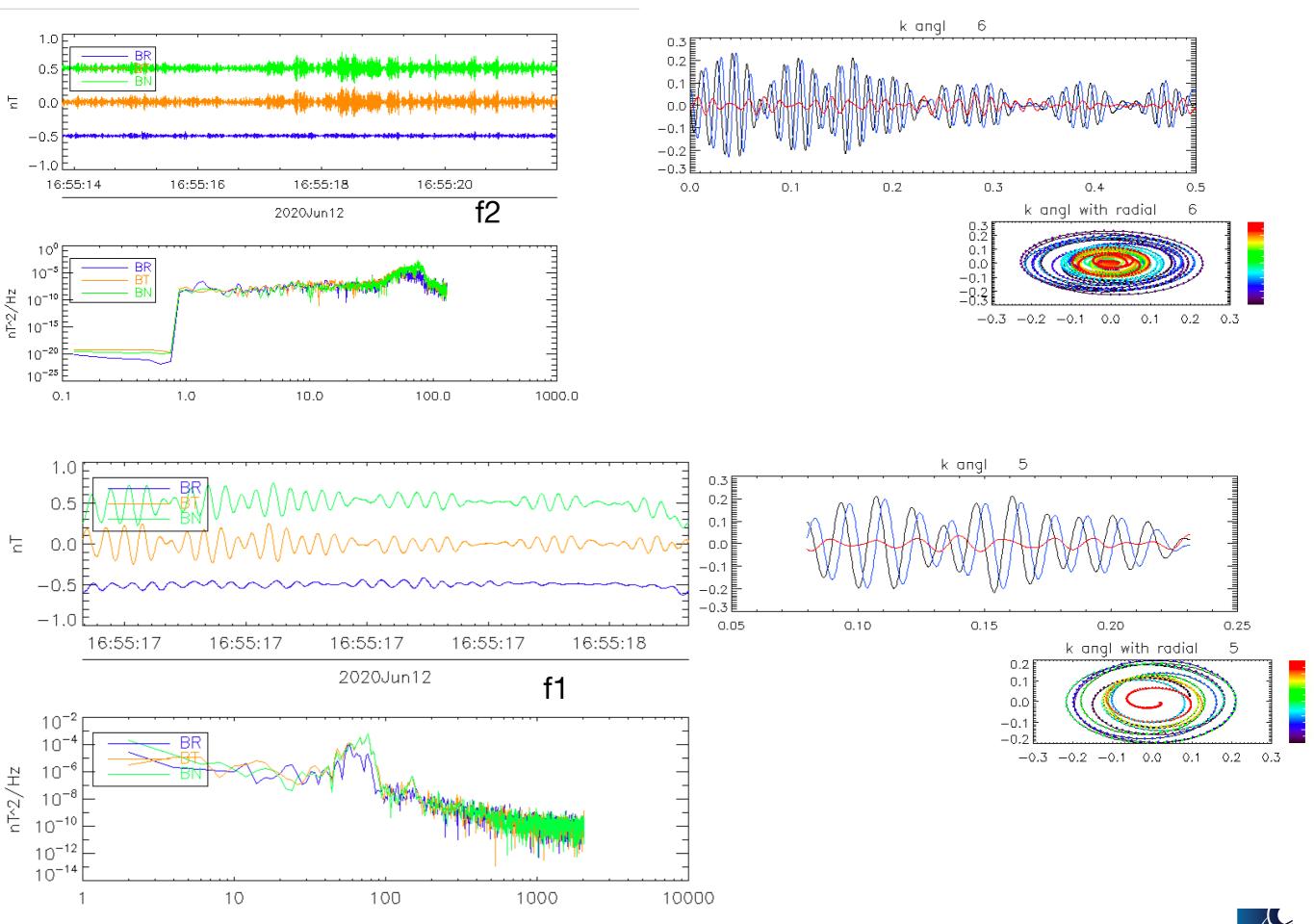
- * "heater events" are now flagged with bitmask; time precision will be improved soon.
- * Impact on the calibration of the snapshot containing the event ongoing
- * For spectrogram representation, the actual solution is to replace the event by noise
- * Heater current consumption unchanged (0.92W)



SCM mission data



- SCM is performing well, some science can be done!
- note that physical signal is getting rare where getting far from the Sun



SCM MF data (20 June)

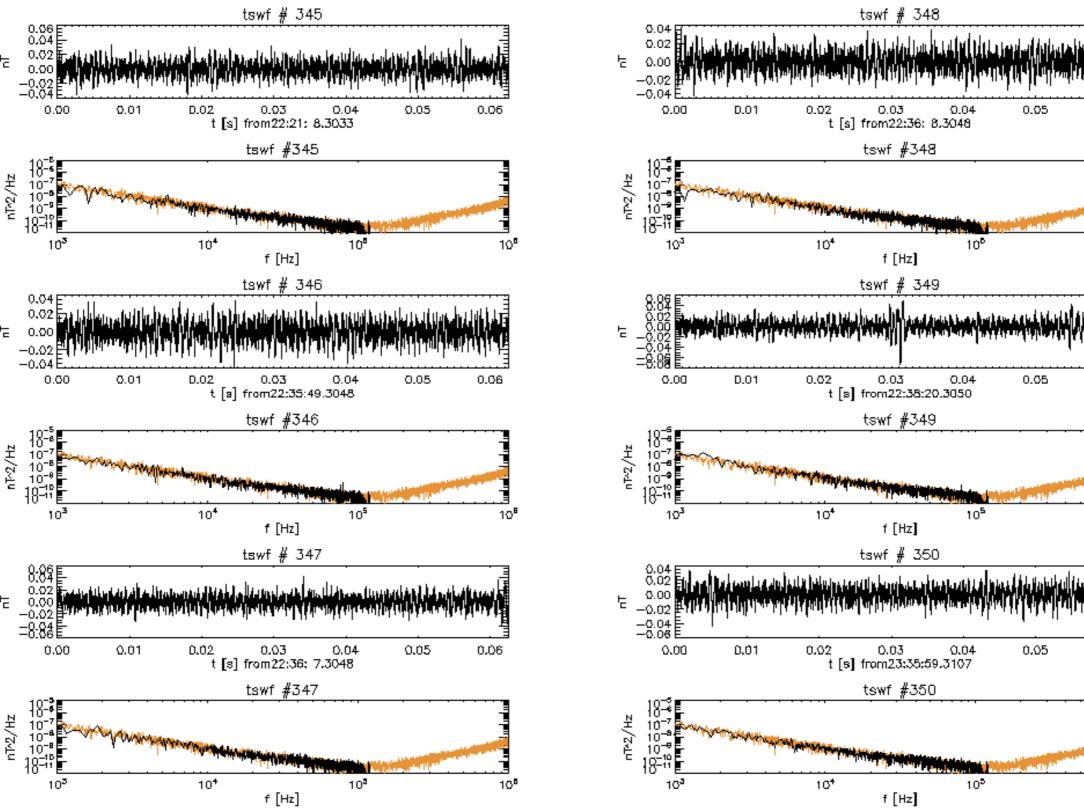
a.D6

106

0.06

0.06

10



take home

- SCM LF are quite ok, but have interfacts: Spacecraft and SCM heaters mostly
- Can be used for waves and turbulence studies, get in touch
- You can search for hidden signal in SCM MF channel
- Currently working on:
 - readme file to use SCM data
 - SCM in flight performance paper
 - Whistler overview

Trace spectrum

