

STAFF CAA products & Cross-Calibration activities

Patrick ROBERT & STAFF Team

- 0) STAFF management
- 1) STAFF-SC DWF
- 2) STAFF-SC CWF
- 3) STAFF-SC Cal. Spectra
- 4) STAFF STAFF-SC -EFW timing / Poynting vector
- 5) STAFF-SC FGM comparisons
- 6) STAFF-SA PPP
- 7) Conclusions

0) STAFF management

- Corinne Burlaud leaved the team at the end of September
- Rodrigue Piberne will be probably hired soon

1) STAFF-SC DWF

- to be reprocessed, because some important informations are currently missing
- block status has been added to indicate a true time or an interpolated time
- the whole L1 data base remade with same Ted version and Tcor ON
- new software version in achievement to produce L1 data in CEF

2) STAFF-SC CWF

- software ready and optimized
- decreasing factor 8 on CPU time : 20 min/day as compared to 3 h/day (1 S/C, NBR)
- waiting new transfer function before starting exploitation
(last needed measurements scheduled this month)

3) STAFF-SC Cal. Spectra

- to be reprocessed once the new transfer function will be available

4) STAFF STAFF-SC -EFW timing / Poynting vector

- study to synchronize STAFF and EFW L2 data is in progress
(Y. Khotyaintsev, P. Robert, B. Grison, A. Tenerani)

5) STAFF-SC FGM comparisons

- nothing new... waiting new transfer function

6) STAFF-SA PPP

- software operational
- years 2001 & 2002 produced
- waiting for completion of validation before CAA delivery

7) Conclusion (1)

Manpower

- sudden C. Burlaud leave has desorganized the team but a special effort has been done to continue activities and software development

DWF - CWF

- production chain of DWF has been entirely revised and optimized
- despite a lack of dedicated manpower, CWF software has been successfully optimized and is ready for production

SA PPP

- thanks to a 2 months extra contract with C. Burlaud, and a particular local effort, PPP software has been finished. Data production chain is operational

STAFF-EFW timing

- study is in progress ; Poynting vector computation has been done with correct results (see details with Y. Khotyaintsev)

Conclusion (2)

⇒ Don't forget: many things remain to be done (but with low priority):

- Sensitivity, noise instrument, minimum signal recordable versus frequency, etc... have to be defined accurately (already planned action).
- Cross calibration between STAFF-SC/HBR and STAFF-SA must be refreshed after STAFF-SC **transfer function correction**,.
- Continuity of sensitivity, noise instrument etc... must be checked between STAFF-SC and STAFF-SA. using recent special Burst mode operations

⇒ Roproc software

- works on STAFF-SC L1, L2, FGM CAA data
- Allow calibration of DWF, spectrograms computation, wave polarisation parameters etc... (used to produce plots available on <http://cluster.lpp.polytechnique.fr/accueil/framepa.html>)
- Allow computation of Curl(B), div(B) etc... And many processing on FGM data
- soon available (exe files) on Windows, Linux/64, Linux32, Mac/Darwin



will be licence free

THANK YOU & Sorry to miss meeting