

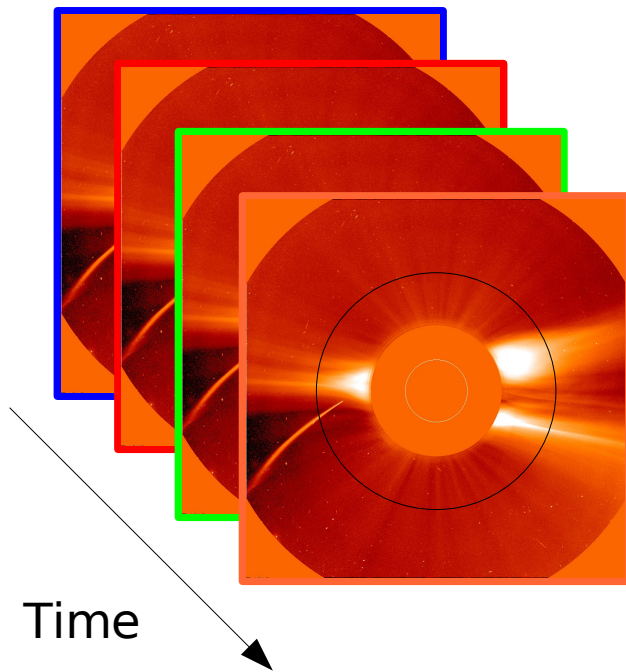
Synoptic and Carrington Map Pipeline for the STEREO-SECCHI Data

A. Thernisien, R.A. Howard
NRL

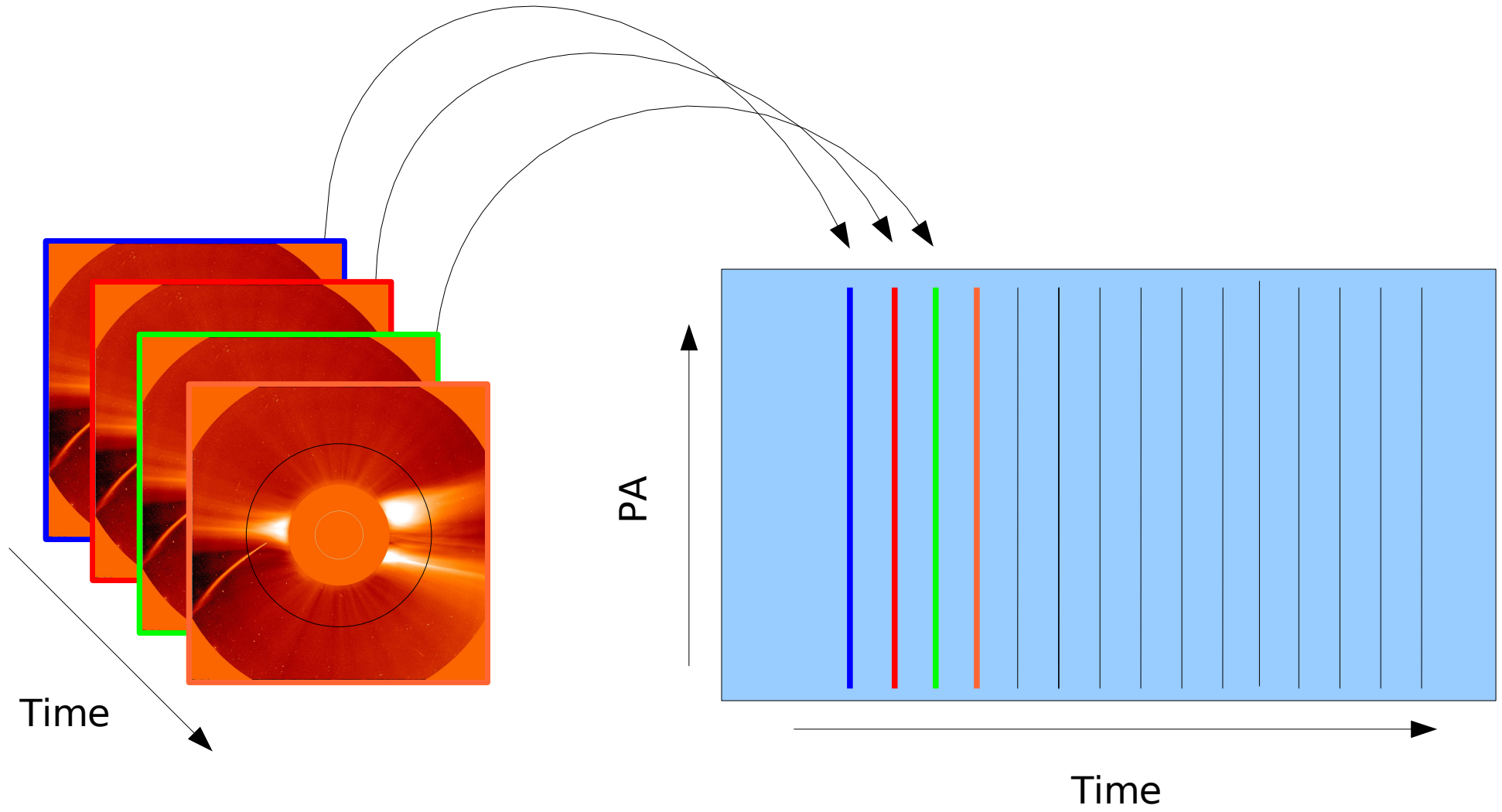
Outline

- Making of Synoptic maps.
- What can we see in the synoptic maps ?
Why are they useful ?
- Using synoptic maps to browse SECCHI data.
- Carrington maps.

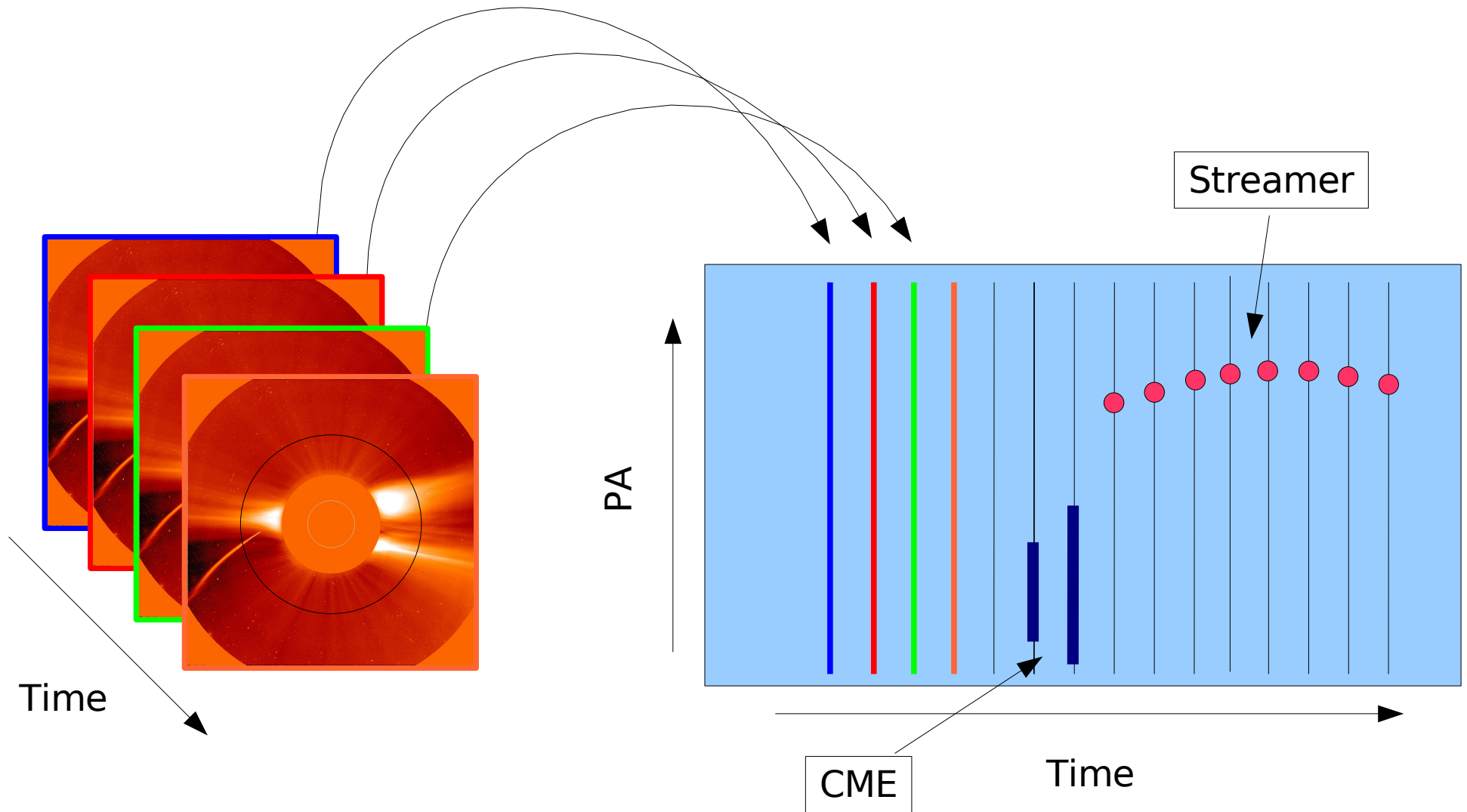
Making of a Synoptic Map



Making of a Synoptic Map

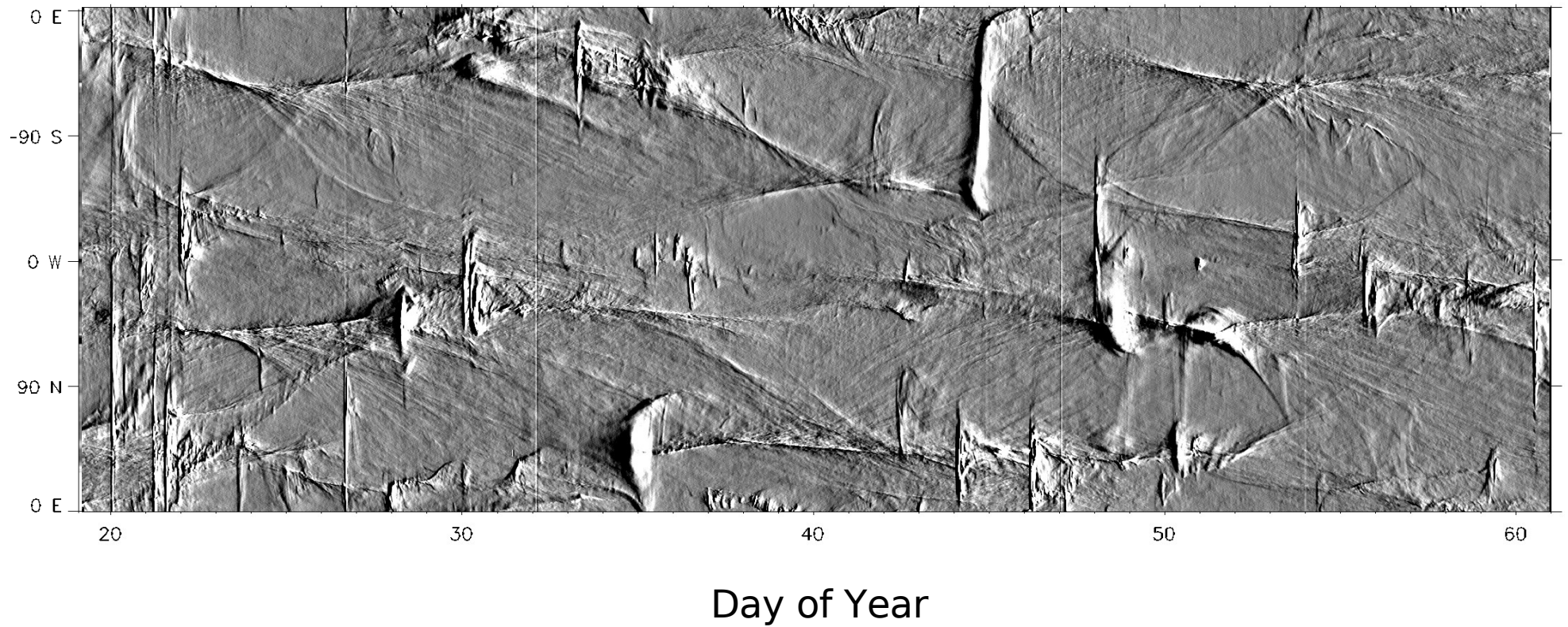


Making of a Synoptic Map



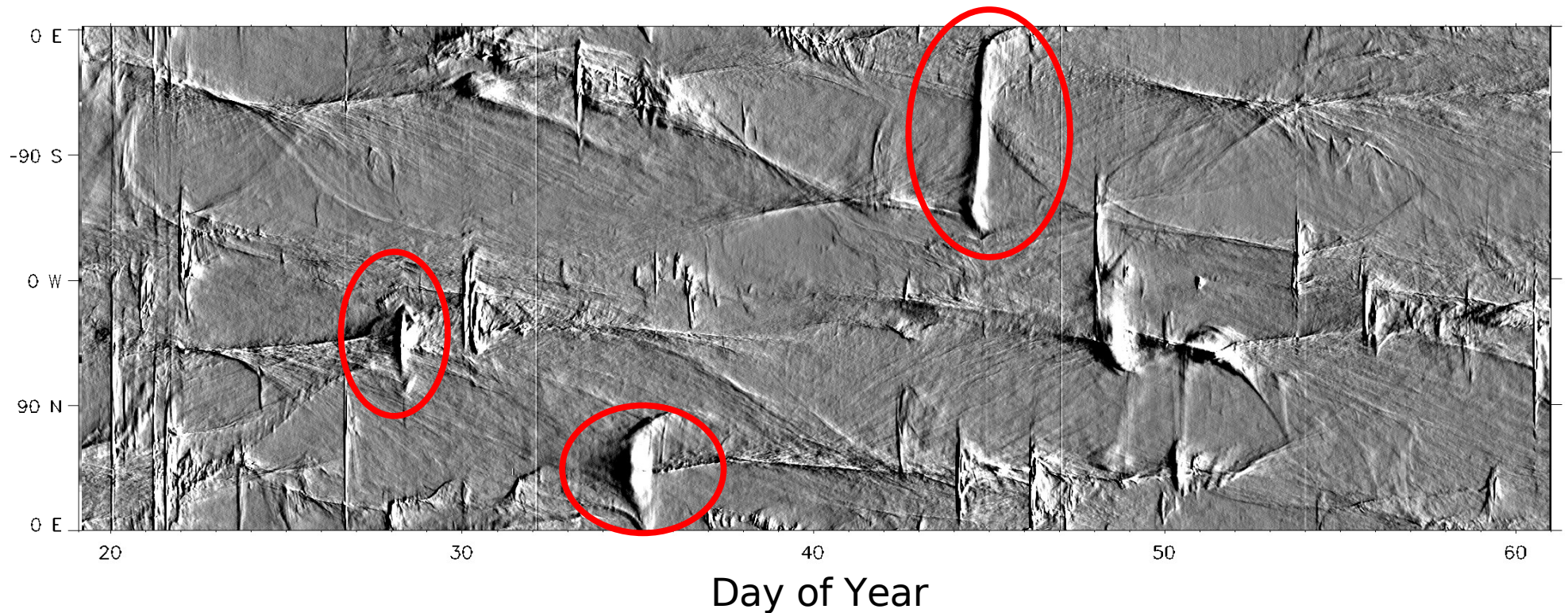
Example of Synoptic Map

LASCO C2, 3 R_{sun}, Jan-Feb 2004



Example of Synoptic Map

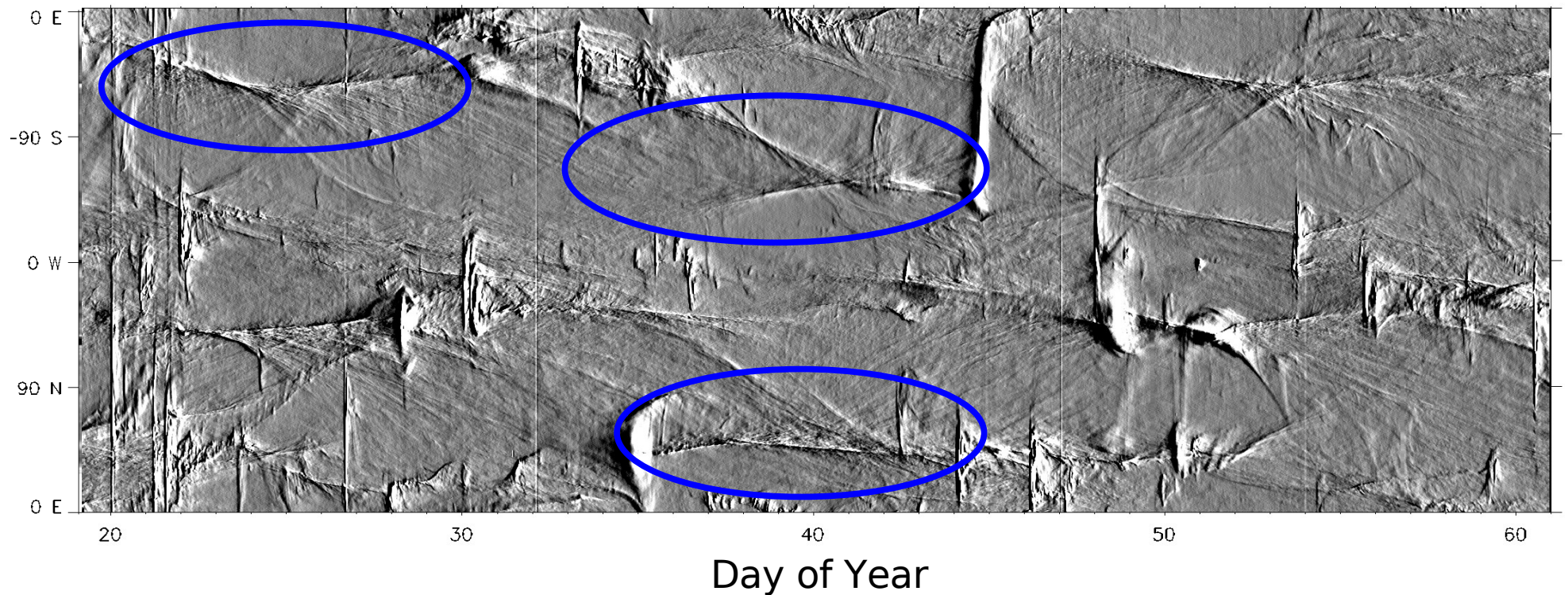
LASCO C2, 3 R_{sun}, Jan-Feb 2004



CMEs

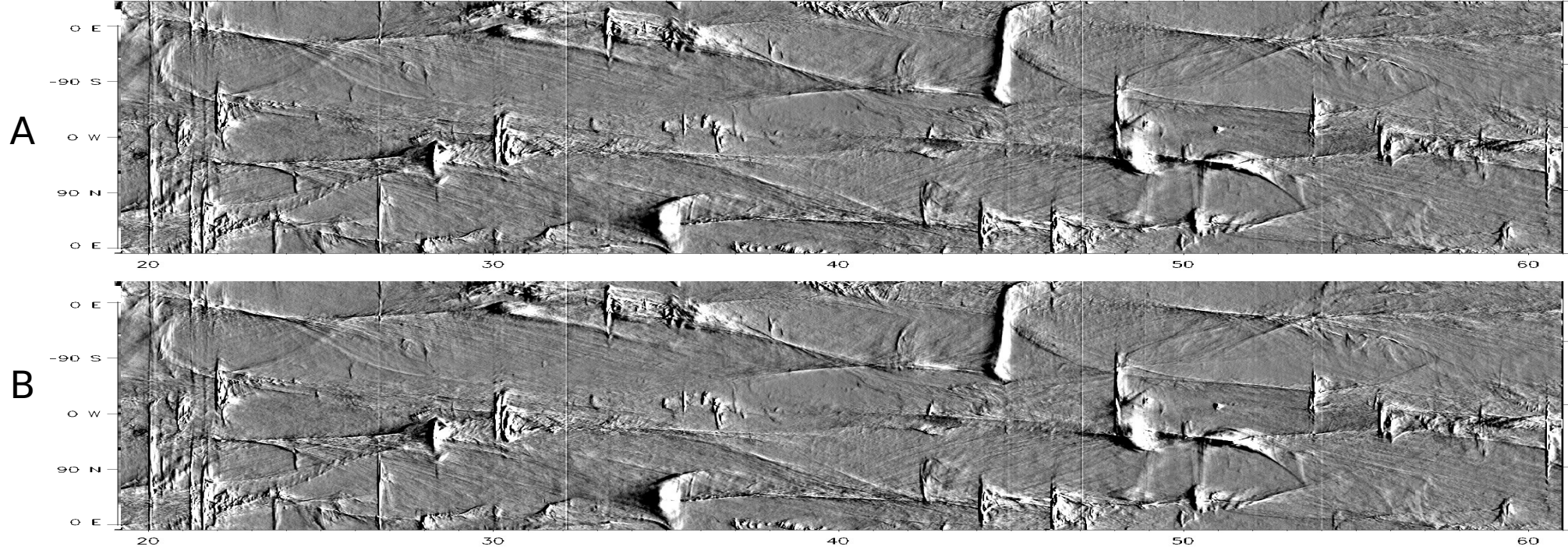
Example of Synoptic Map

LASCO C2, 3 R_{sun}, Jan-Feb 2004

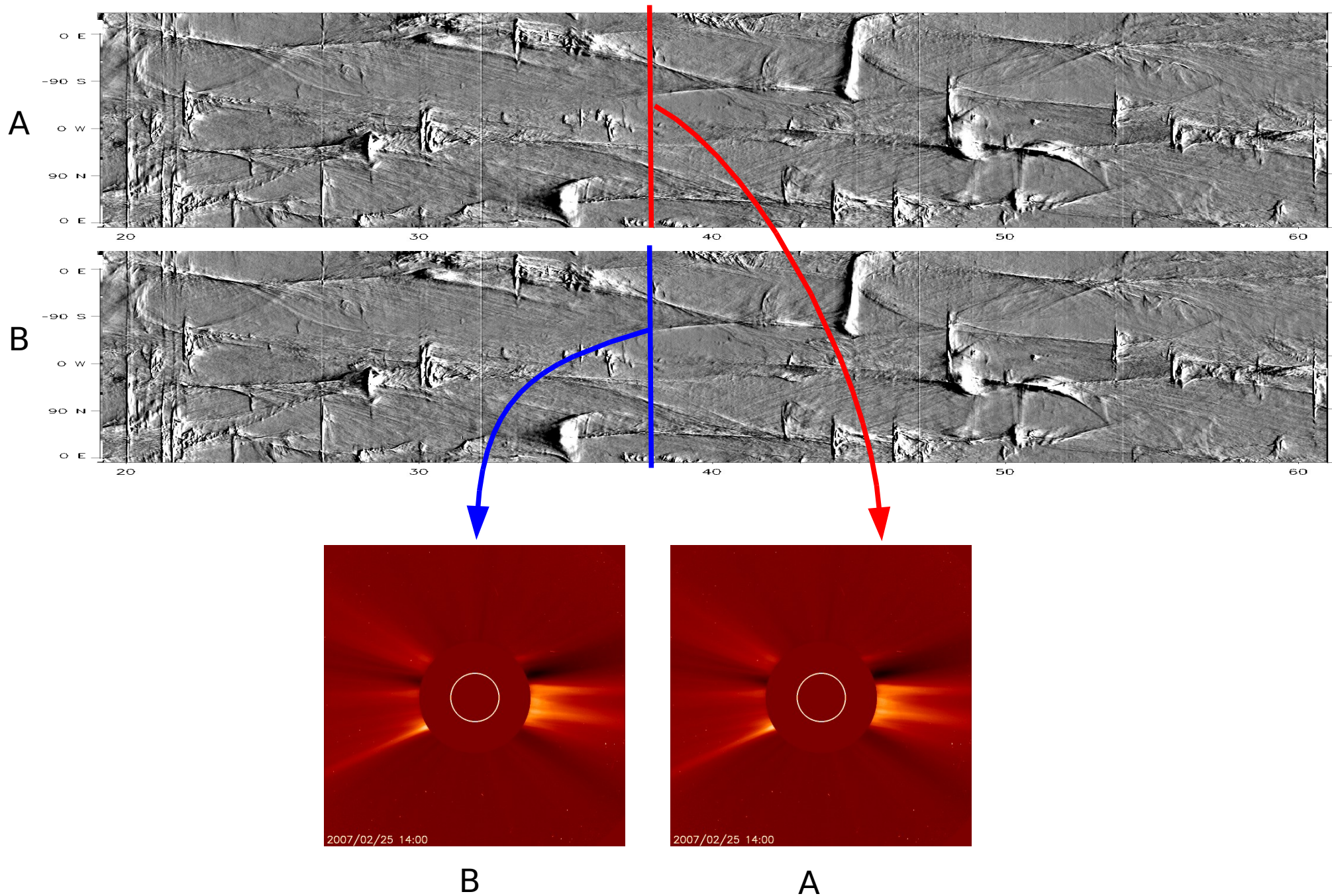


Streamers

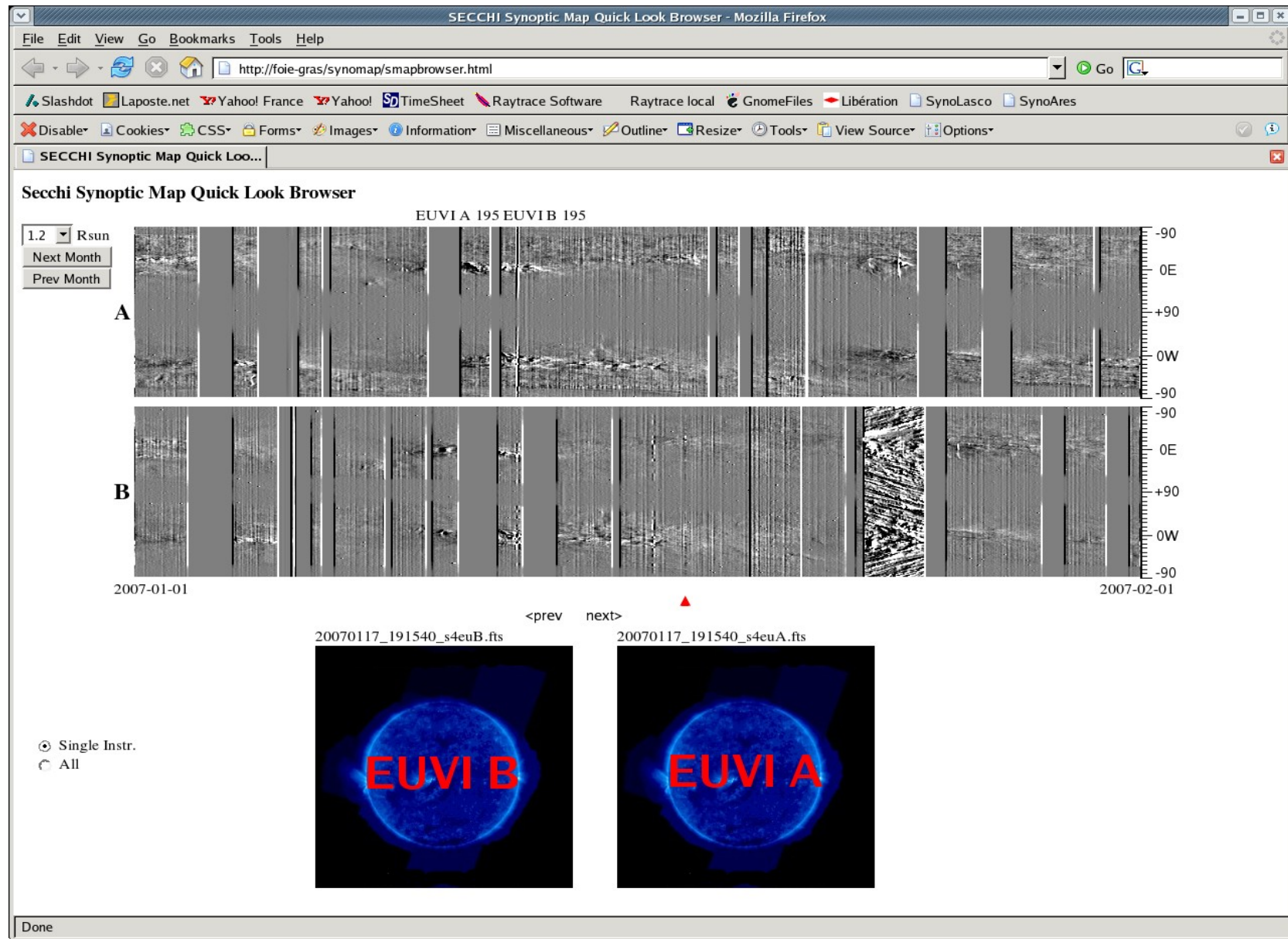
Browsing Data Using Maps



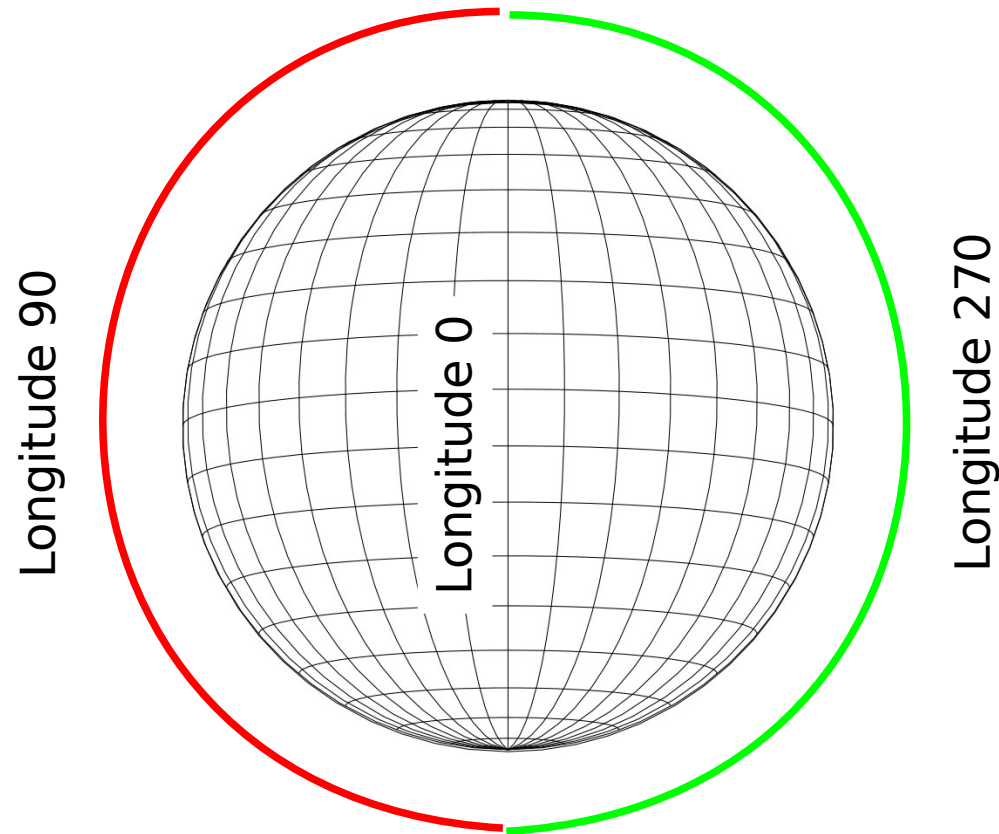
Browsing Data Using Maps



Browsing Data Using Maps

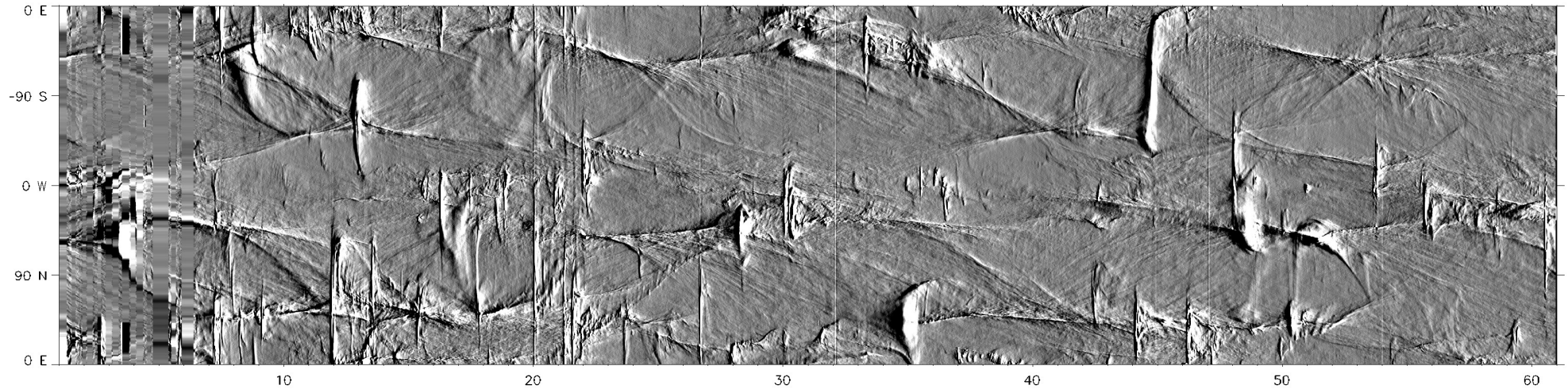


Making of the Carrington Maps



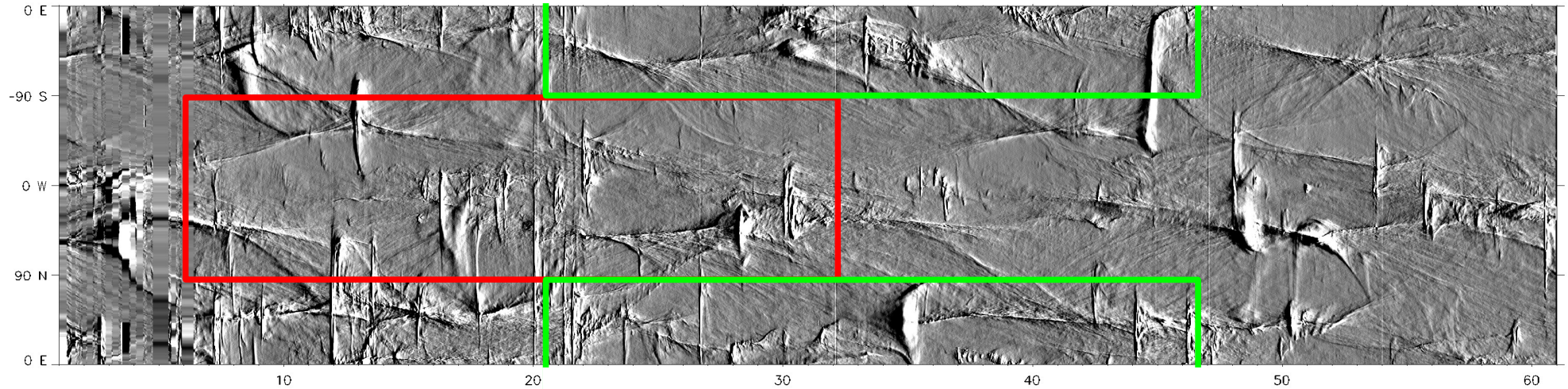
Making of the Carrington Maps

CR2012: starts Jan 13.5, end Feb 9.8



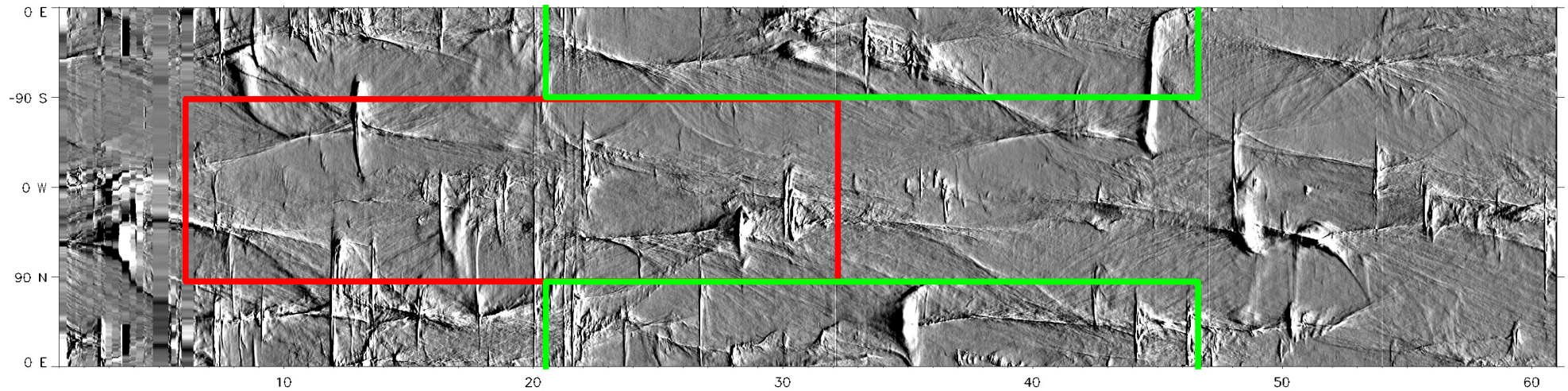
Making of the Carrington Maps

CR2012: starts Jan 13.5, end Feb 9.8

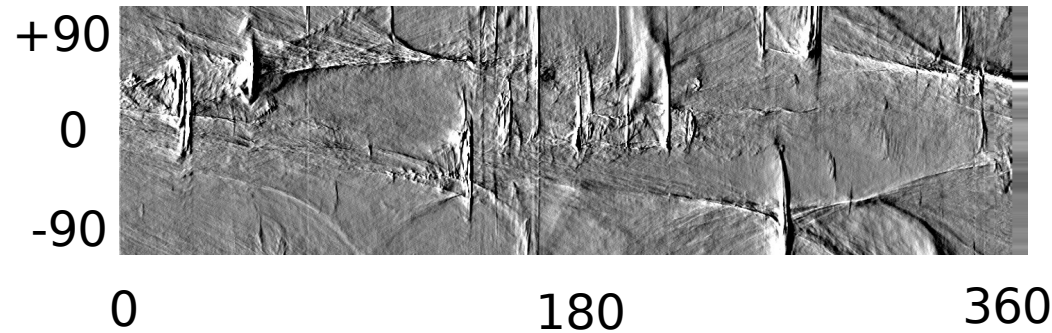


Making of the Carrington Maps

CR2012: starts Jan 13.5, end Feb 9.8



CR2012 W



CR2012 E



Carrington Maps On-Line

NRL - SECCHI Synoptic Maps - Mozilla Firefox

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NRL - SECCHI Synoptic Maps

SECCHI Synoptic Maps

[Synoptic Maps](#)
[Carrington Maps: by Instruments](#)
[Carrington Maps: by Carrington Rotation](#)
[Quick Look Browser](#)

SECCHI Carrington Map

carrot	limb	frstdate	lastdate	detector	hrsun	fits	png
2052	E	2007-01-01 16:06:52	2007-01-28 23:48:13	COR1 B, polar_quad=96	2.2	fits	png
2052	W	2007-01-15 07:56:17	2007-02-11 15:58:07	COR1 B, polar_quad=96	2.2	fits	png

Done

Conclusion

- We show that synoptic maps provide a quick spatial and temporal overview of the activity in the solar corona. Fast way to locate interesting events. Complementary tool compare to movies.
- Synoptic and Carrington maps will be calculated for 20 heights from 1.1 (EUVI) to 200 R_{sun} (HI2).
- They will be updated daily.
- SECCHI quick look image browser using synoptic maps will be available soon (in few weeks).