



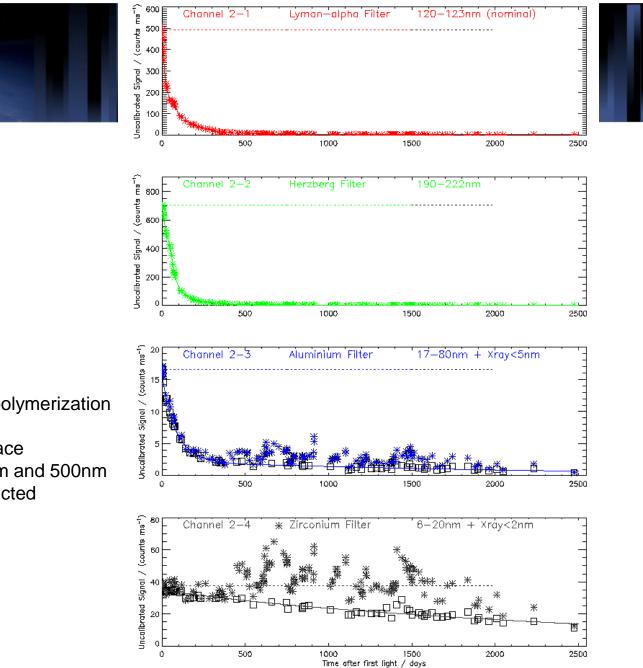


LYRA status update

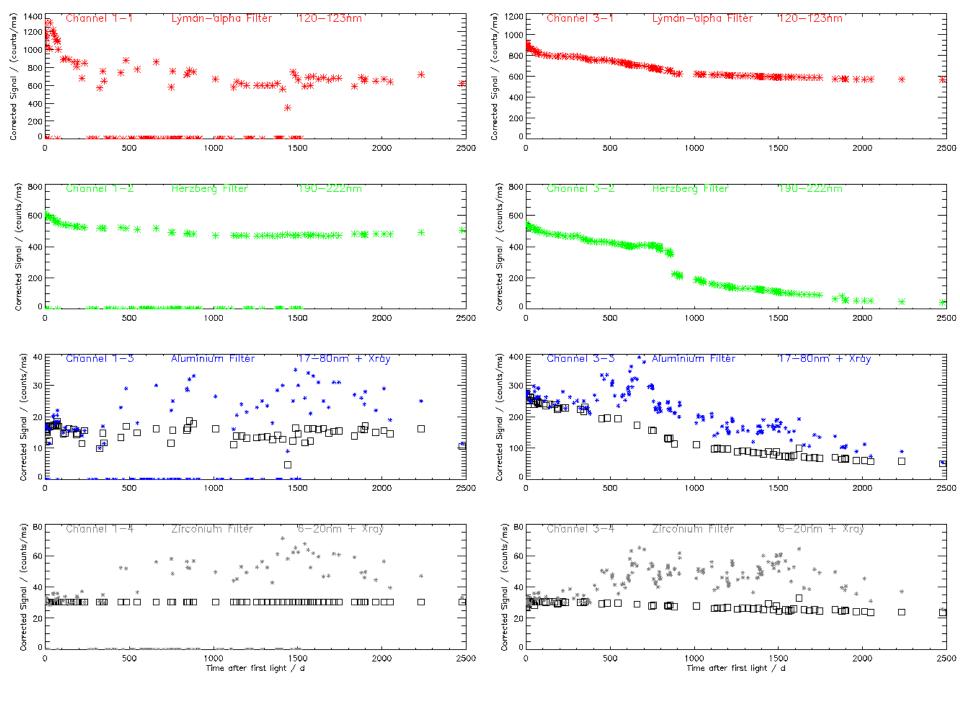
I. E. Dammasch, M. Dominique, T. Katsiyannis, L. Wauters

SWT, ESWW13, 16/11/2016





- Degradation by UV-polymerization of carbon molecules
- Dirt film on filter surface
- Worst between 20 nm and 500nm
- SXR and IR less effected



Remarks: ch *-3 and *-4 scaled by 1-4 (non degraded), saturation problem MSM, open door problem unit 3, IR problem ch 3-1

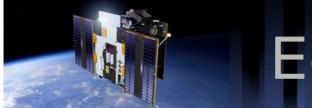


□Status on February 15, 2016

Channel	Remaining signal	Channel	Remaining signal	Channel	Remaining signal
Unit 1		Unit 2		Unit 3	
Channel 1-1	62%	Channel 2-1	0.6%	Channel 3-1	61%
Channel 1-2	75%	Channel 2-2	0.03%	Channel 3-2	9%
Channel 1-3	100%	Channel 2-3	3%	Channel 3-3	19%
Channel 1-4	100%	Channel 2-4	30%	Channel 3-4	71%

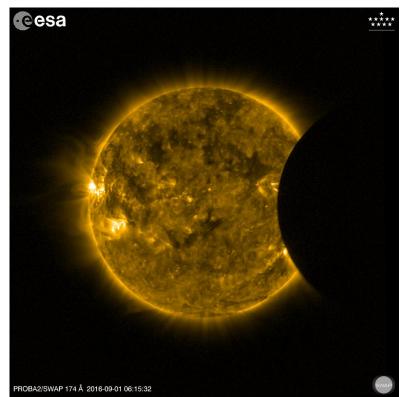
=> Slow evolution



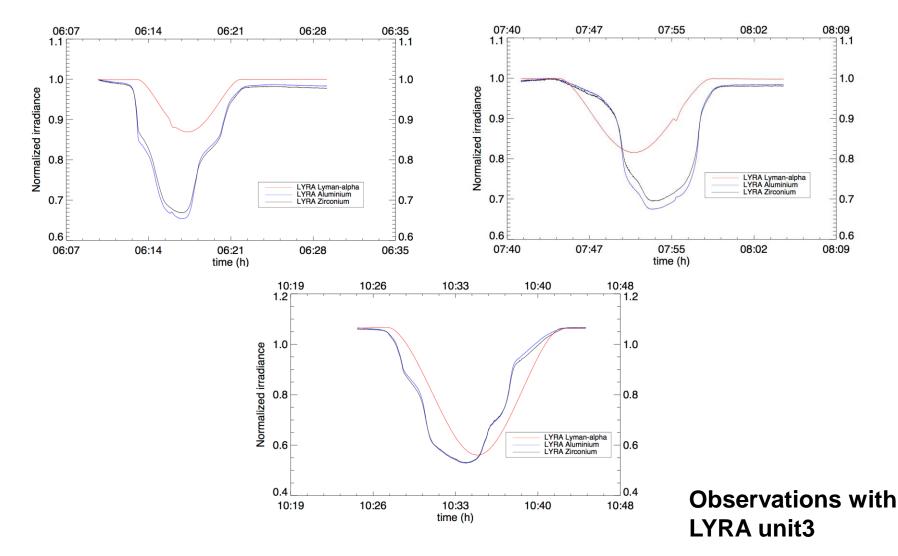


Eclipse observation

- □ EUV curves more irregular than UV curve(s)
- Importance of active regions in EUV
- Lyman-alpha channel more uniform, Sun more homogeneous
- No Herzberg signal due to problems during eclipse

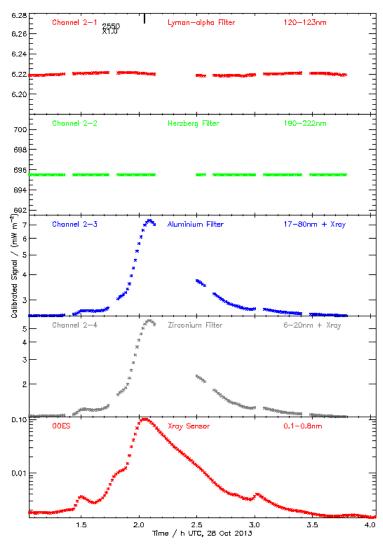






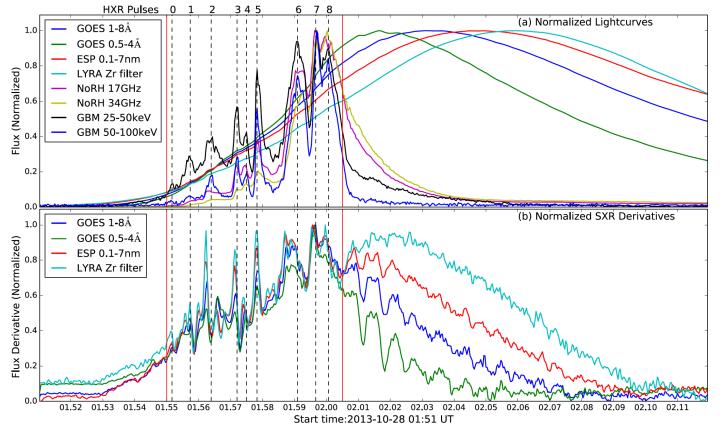


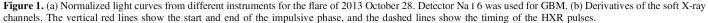
- Recent paper on quasi-periodic pulsations, using LYRA data
- Compares QPP in several wavelength ranges
- Impulsive and decaying part of X1 flare, 28 Oct 2013
- Publication was result of guest investigator visit





□ Hayes et al., ApJL, 2016 (Guest Investigator)









Mission extension on-going: extension for 2017-2018 should be granted, two more years are being requested.



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THANKS!



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