

CCD pozorovania Slnka v Rimavskej Sobote

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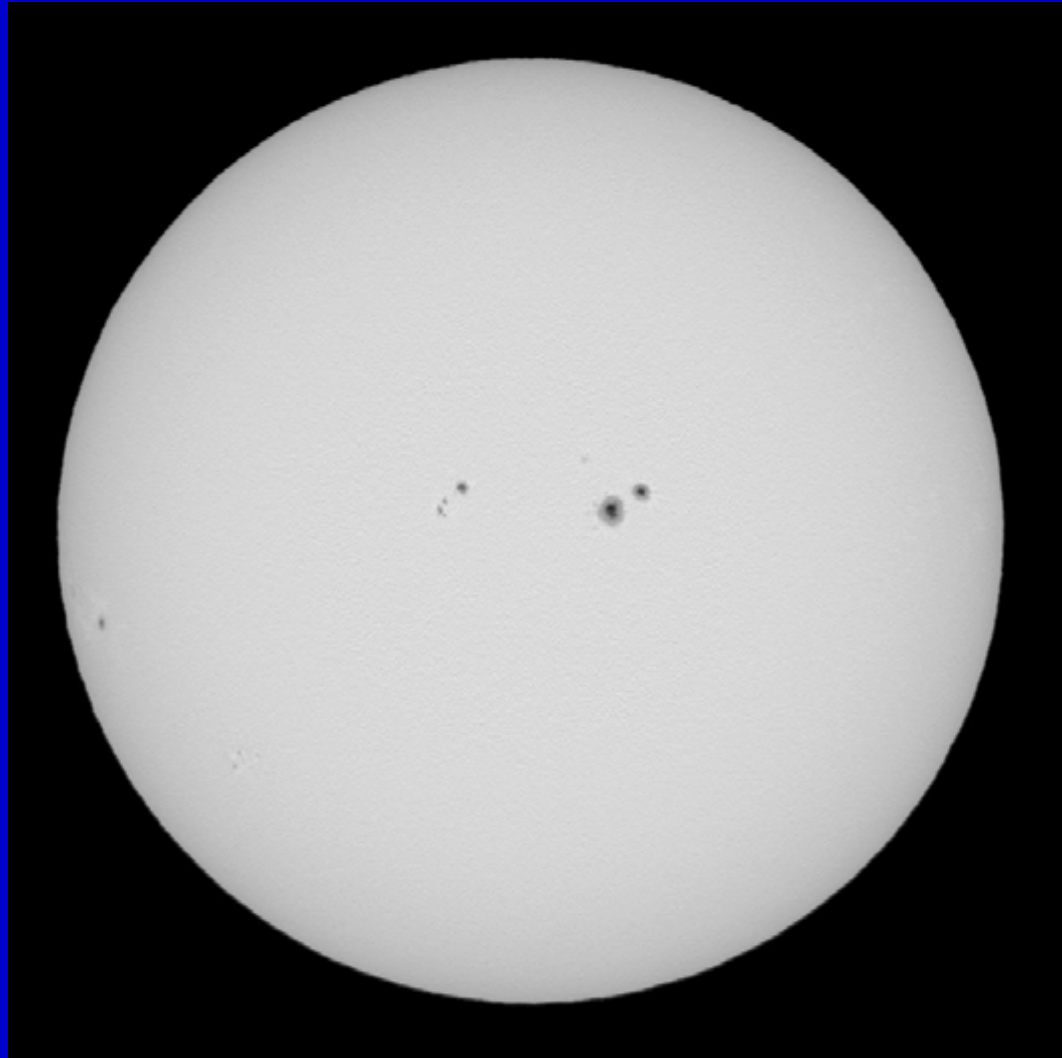


CCD kamera SHT 1.3

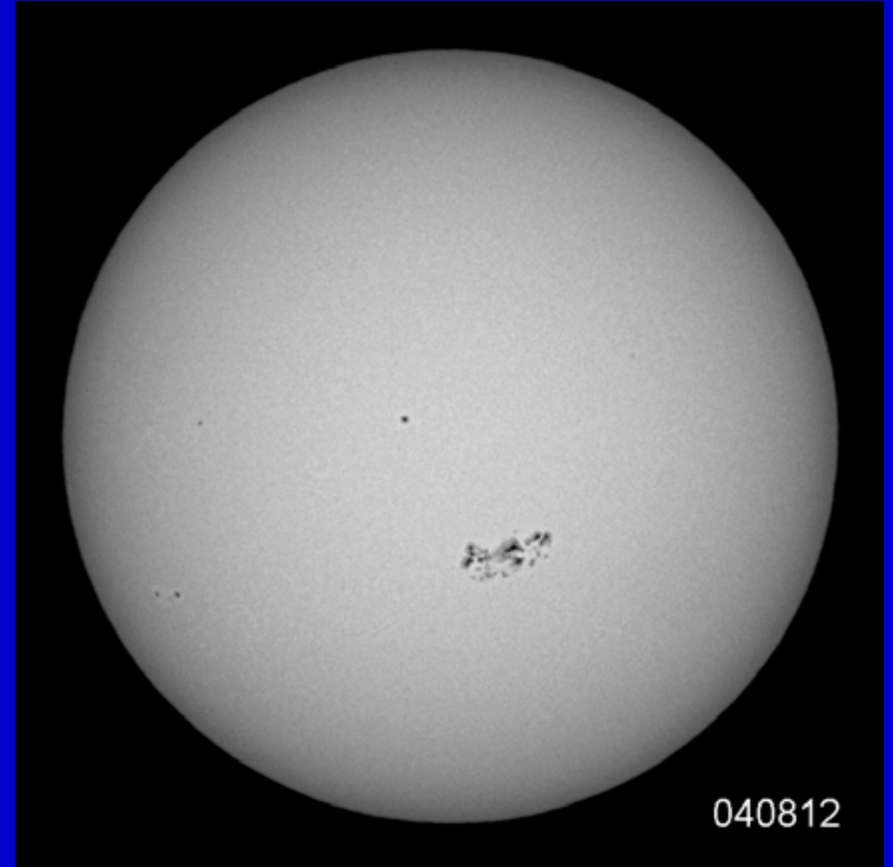
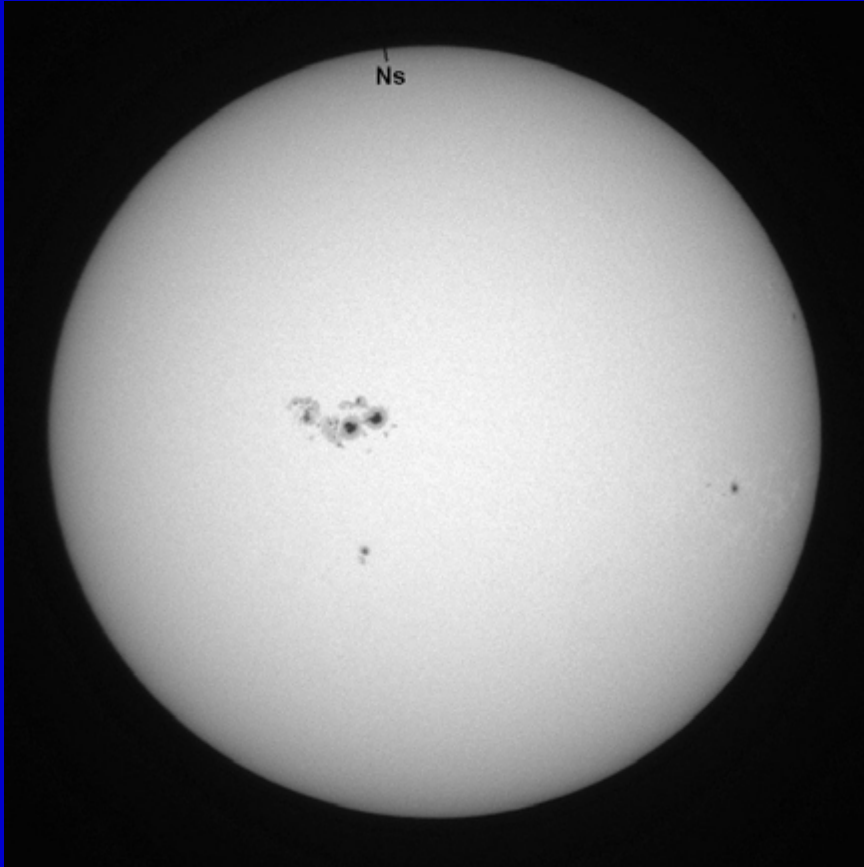
- 1280 x 1024 px, 6,7 x 6,7 μ m, 8,6 x 6,9 mm
- Sony ICX085AL, Peltier, +10°C
- 8/16 bit, YYMMDD_HHMMSS_sss.tif
- framegrabber Shark (PCI karta)
- C-mount – M42
- live režim max. 12,5 fr/s
- vyčítanie ~1 s/~0,3 s (do pamäte)
- prepojenie fw kábel (data, napájanie)

DISK

- **Sonnar 4/300+TK2**
- **$f_{\text{ef}} = 600 \text{ mm}$**
- **$\delta = 1,52''$**
- **Baader Astrosolar viz.**
- **zorné pole $0,82 \times 0,66^\circ$**
- **rozlíšenie $2,3''/\text{px}$**

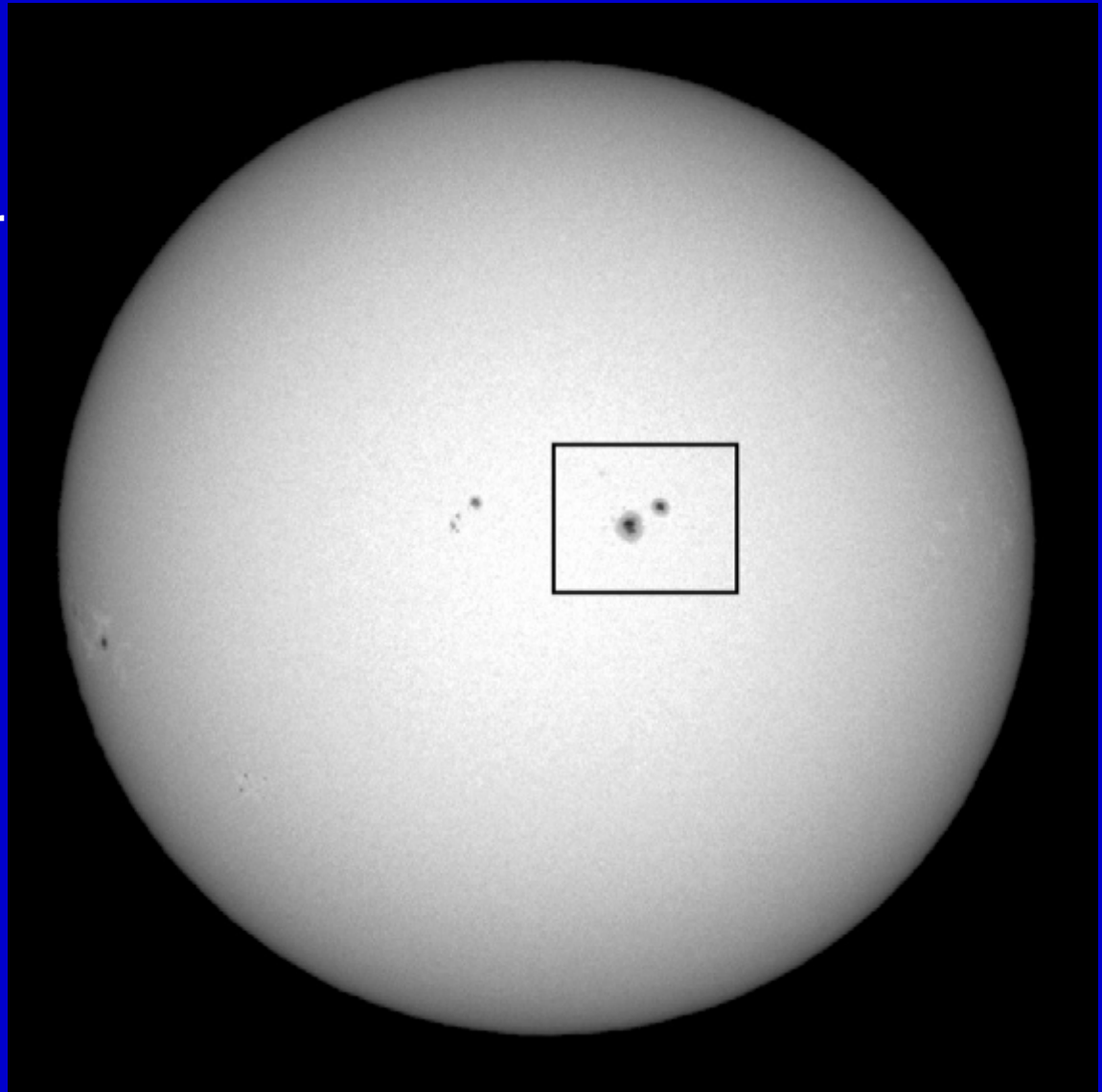


DISK

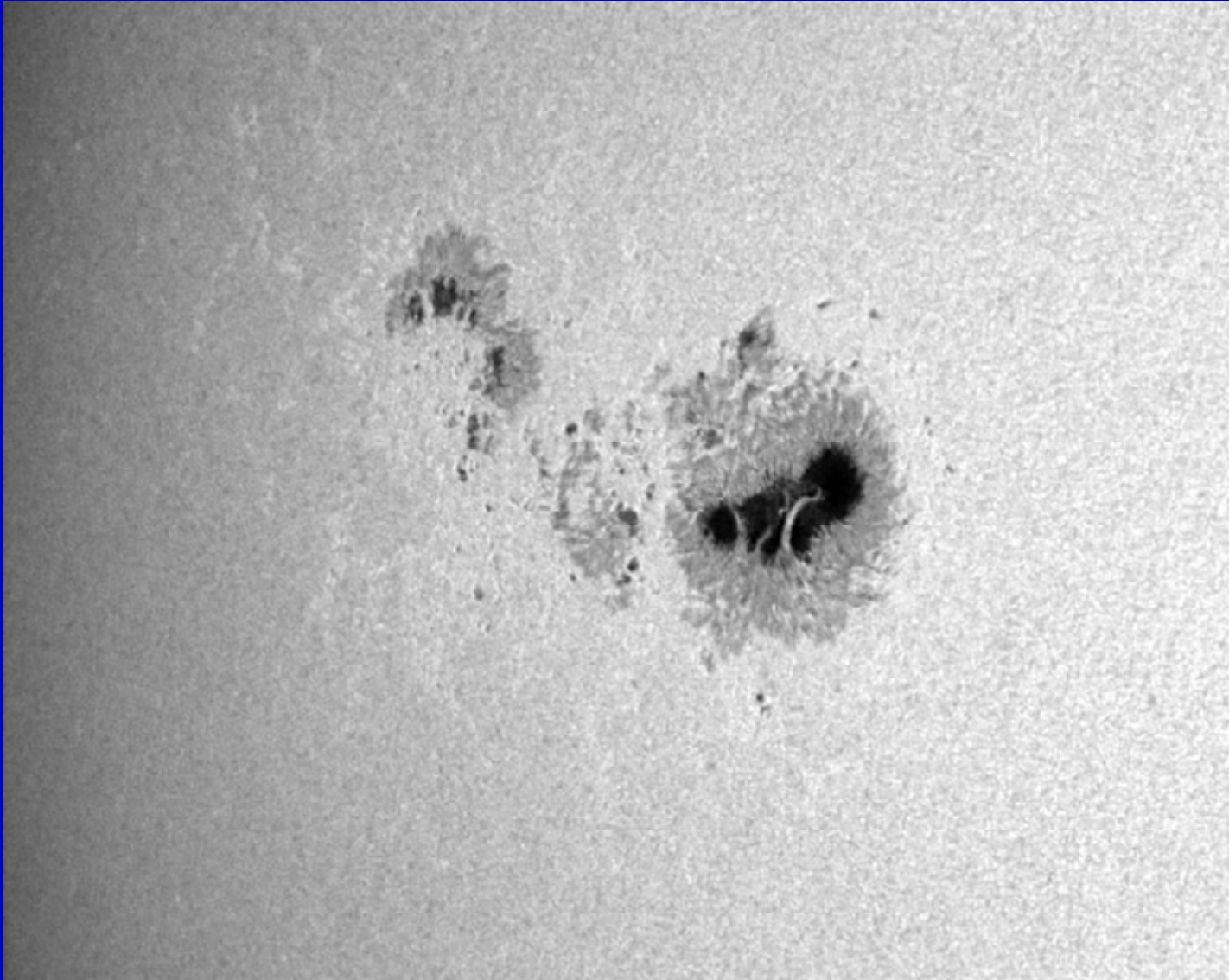


DETAILY

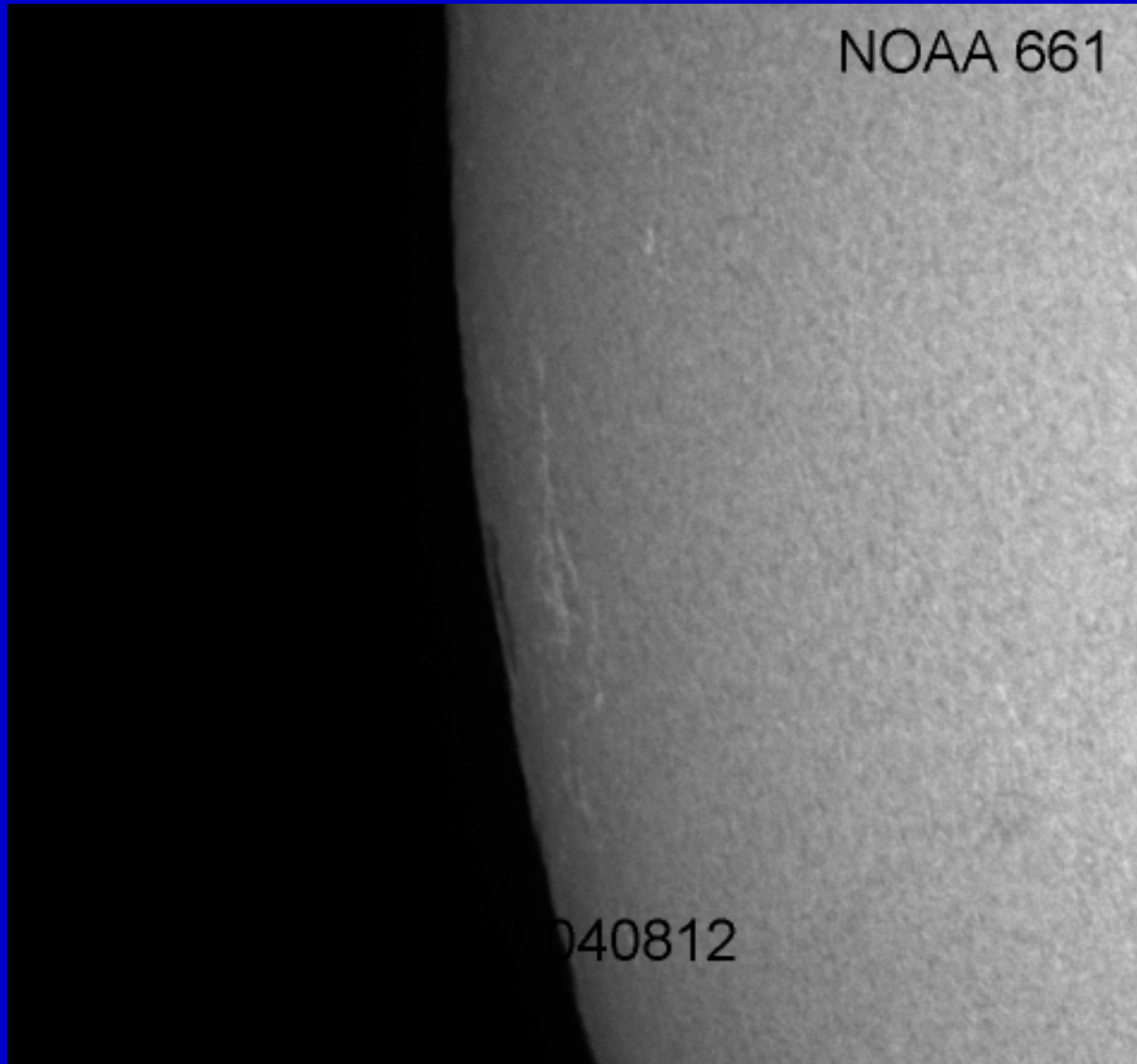
- R 160/2450 + TK2
- $f_{\text{ef}} = 4900$ mm
- $\delta = 0,7''$
- Baader Astrosolar foto
- objektívový oranžový filter
- zorné pole $4,8 \times 6,0''$
- rozlíšenie $0.28''/\text{px}$
- expozícia ~ 3 ms



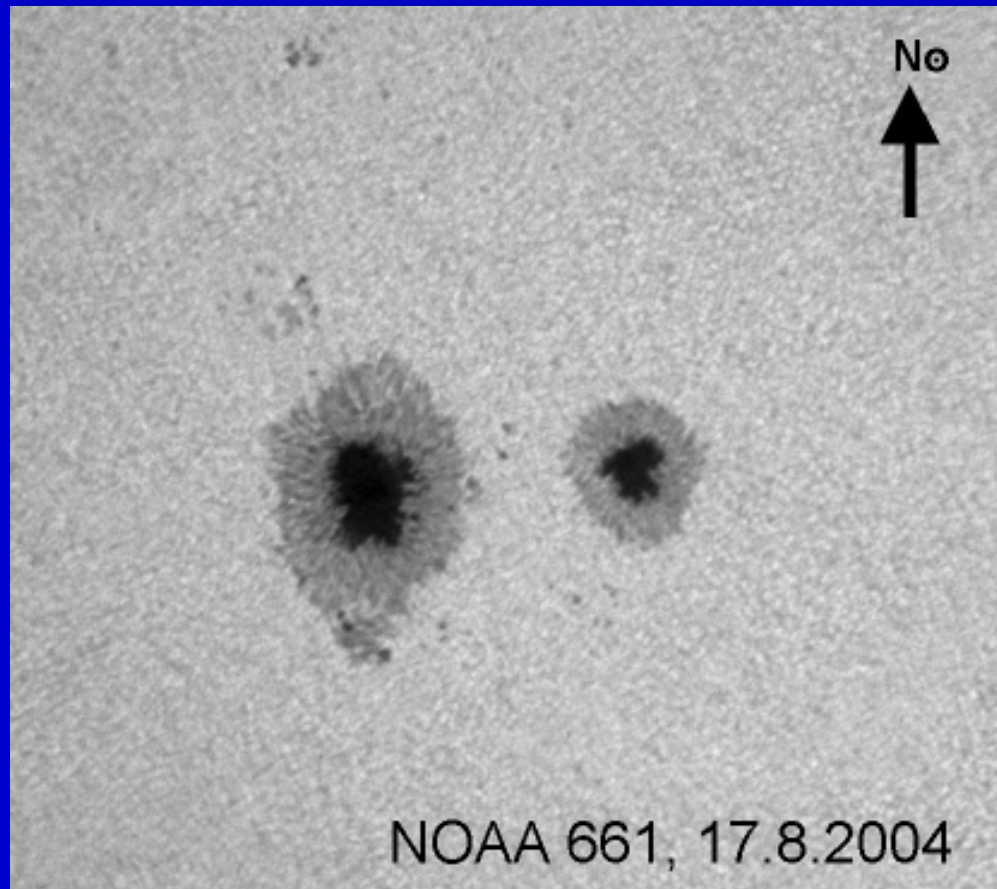
DETAILY



DETAILY - animácie

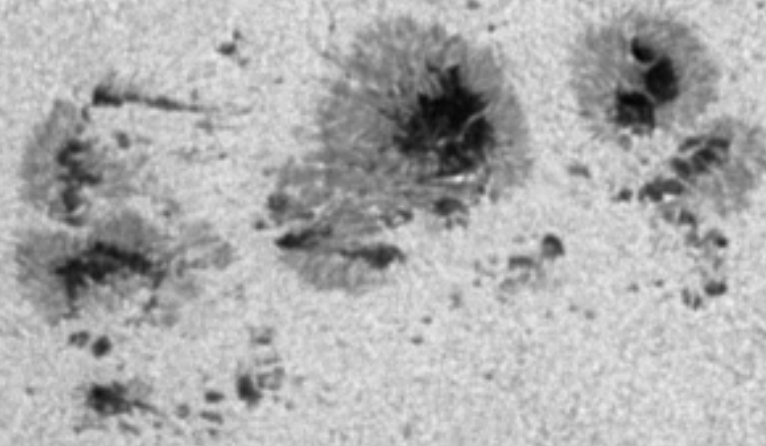


DETAILY - animácie



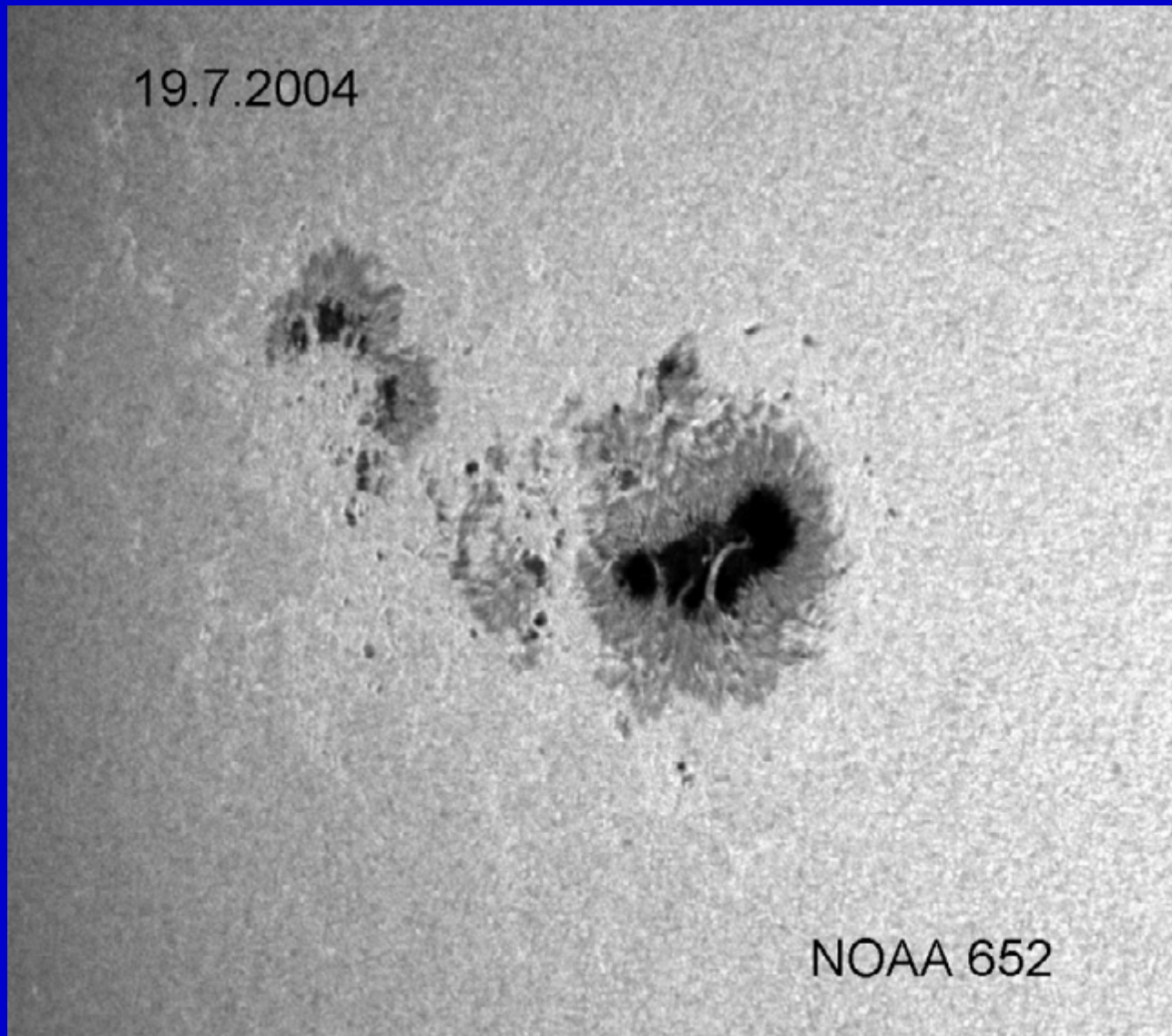
DETAILY - animácie

NOAA 656



10.8.2004

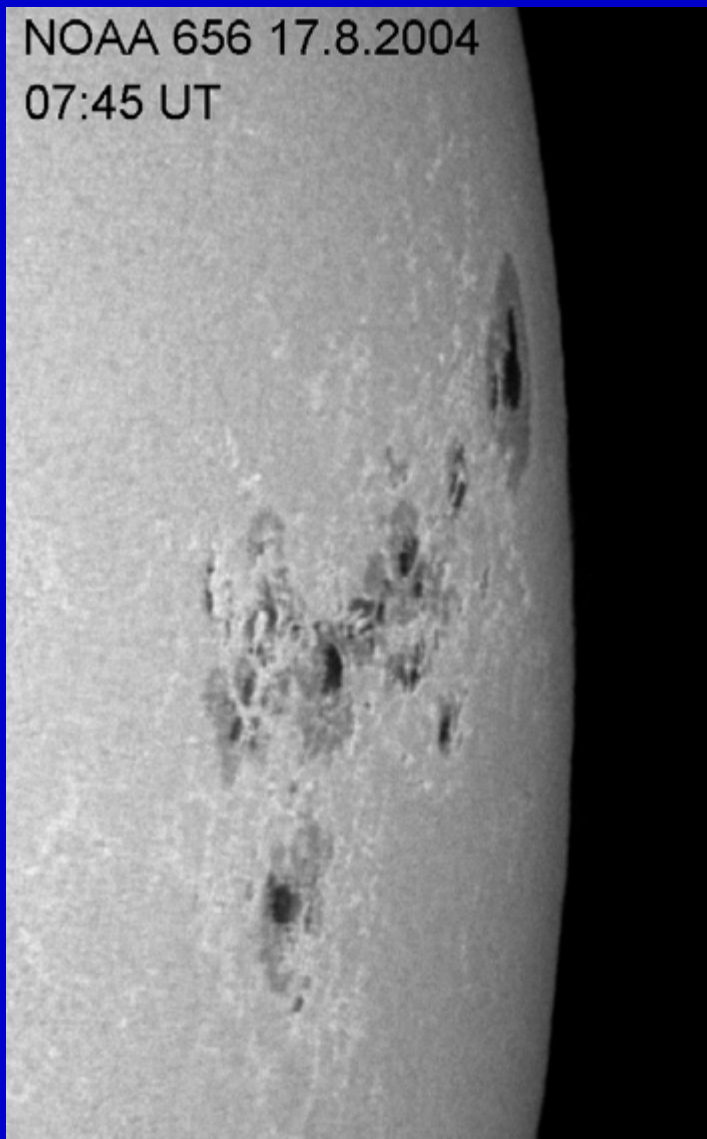
DETAILY - animácie



DETAILY – animácie

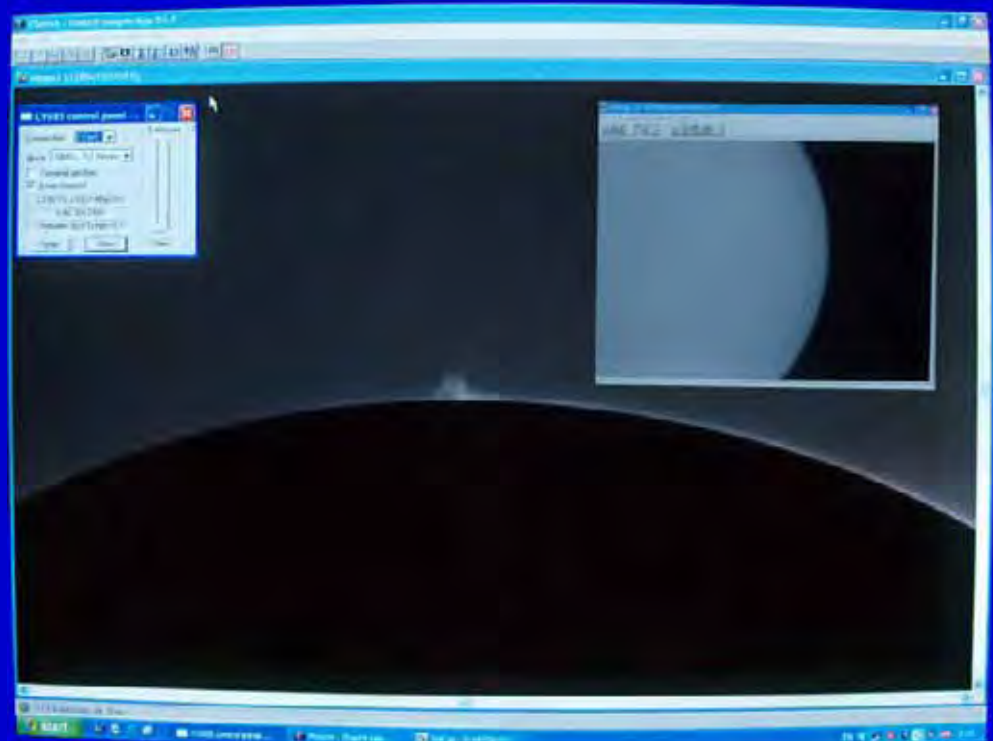
NOAA 656 17.8.2004

07:45 UT

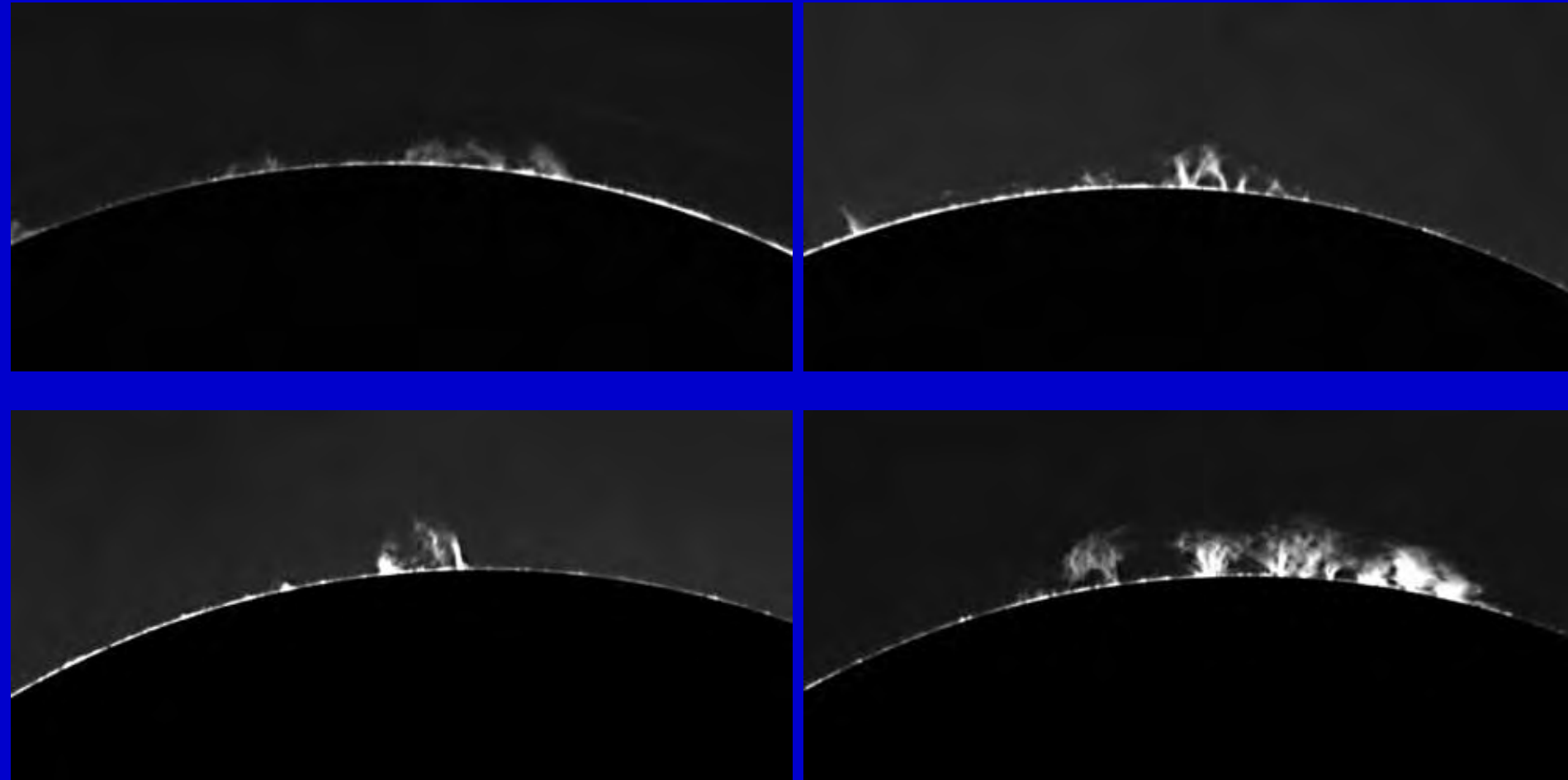


PROTUBERANCIE

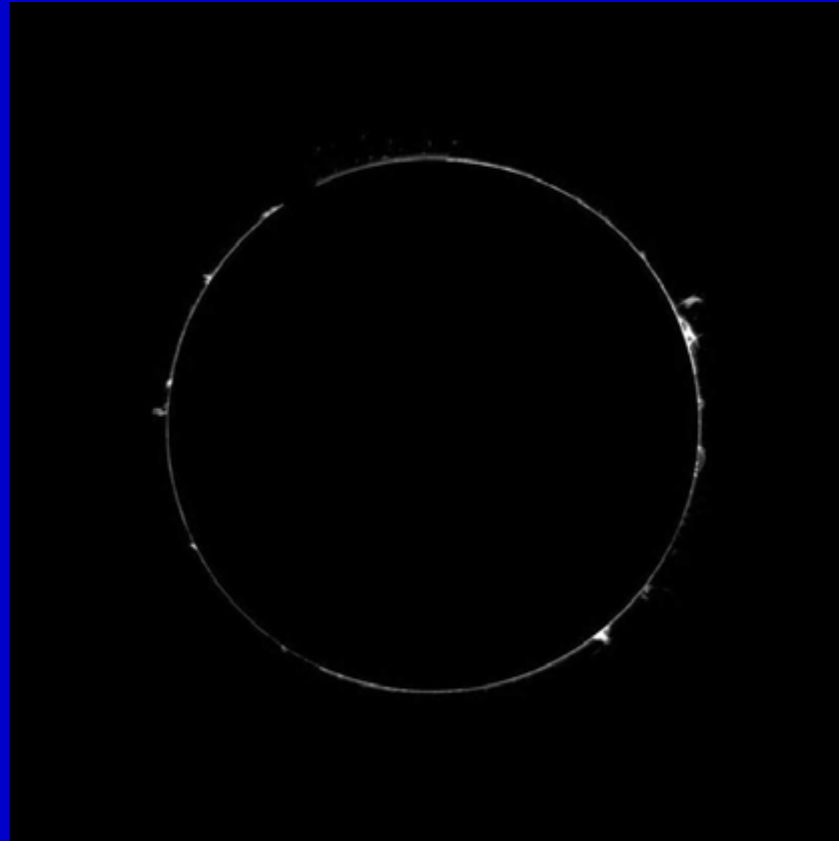
- 110/1200 (Gajdušek, Otavský, Kozelský)
- $f_{\text{ef}} = 1800 \text{ mm}$
- $\delta = 1''$
- filter Baader $H\alpha$ (656,3 nm), šírka 0,4 nm
- clona cca 15 mm (zmena kvality filtra od roku 1995)
- zorné pole $13 \times 16'$
- rozlíšenie $0,8''/\text{px}$
- expozícia $\sim 13 \text{ ms}$
- $9 \times 40^\circ$



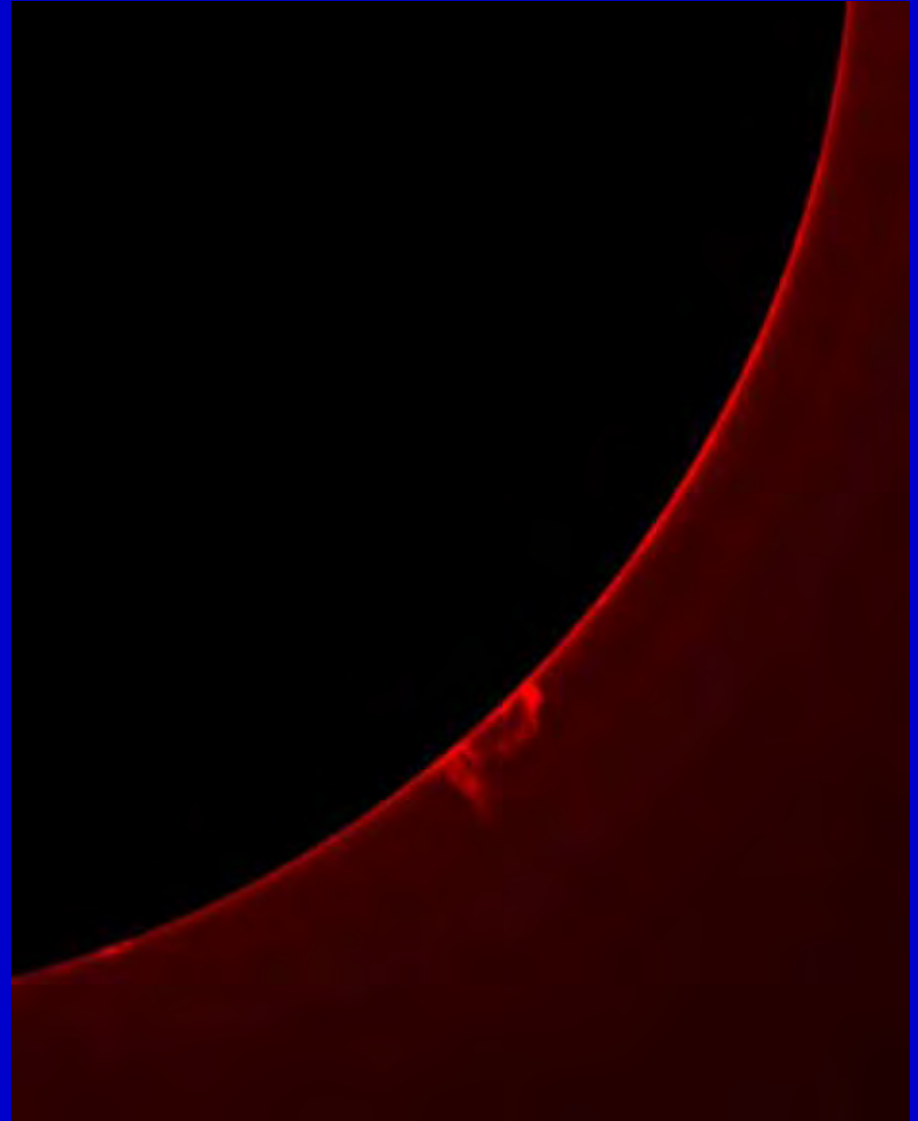
PROTUBERANCIE



PROTUBERANCIE

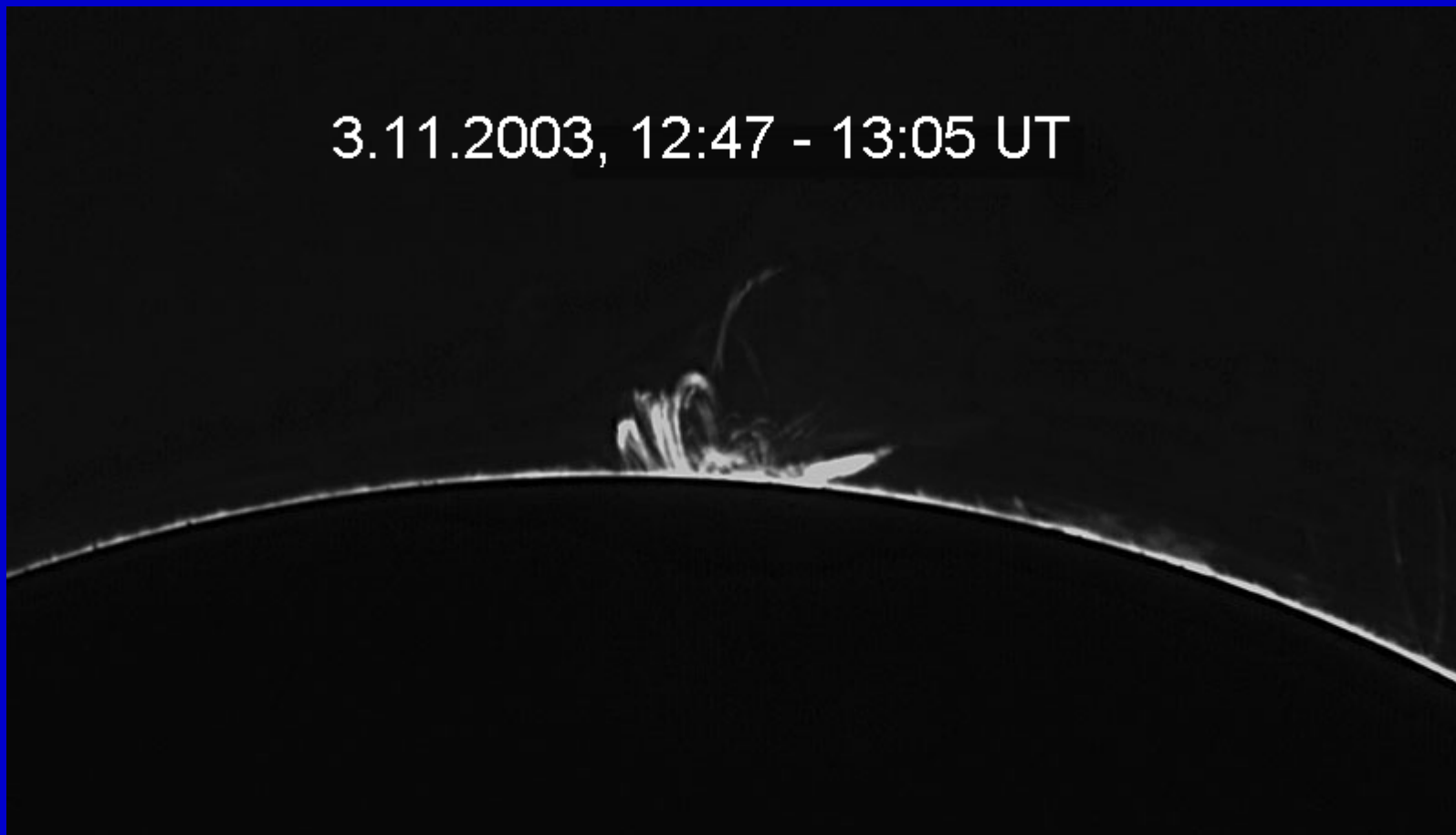


PROTUBERANCIE



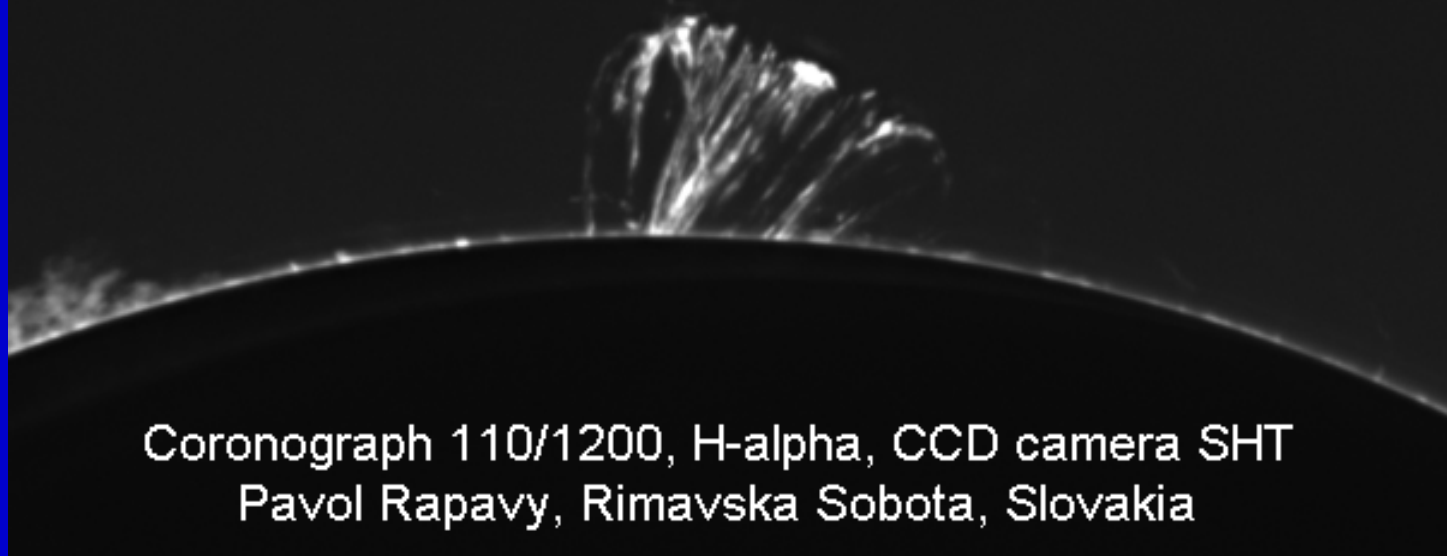
PROTUBERANCIE - animácie

3.11.2003, 12:47 - 13:05 UT



PROTUBERANCIE - animácie

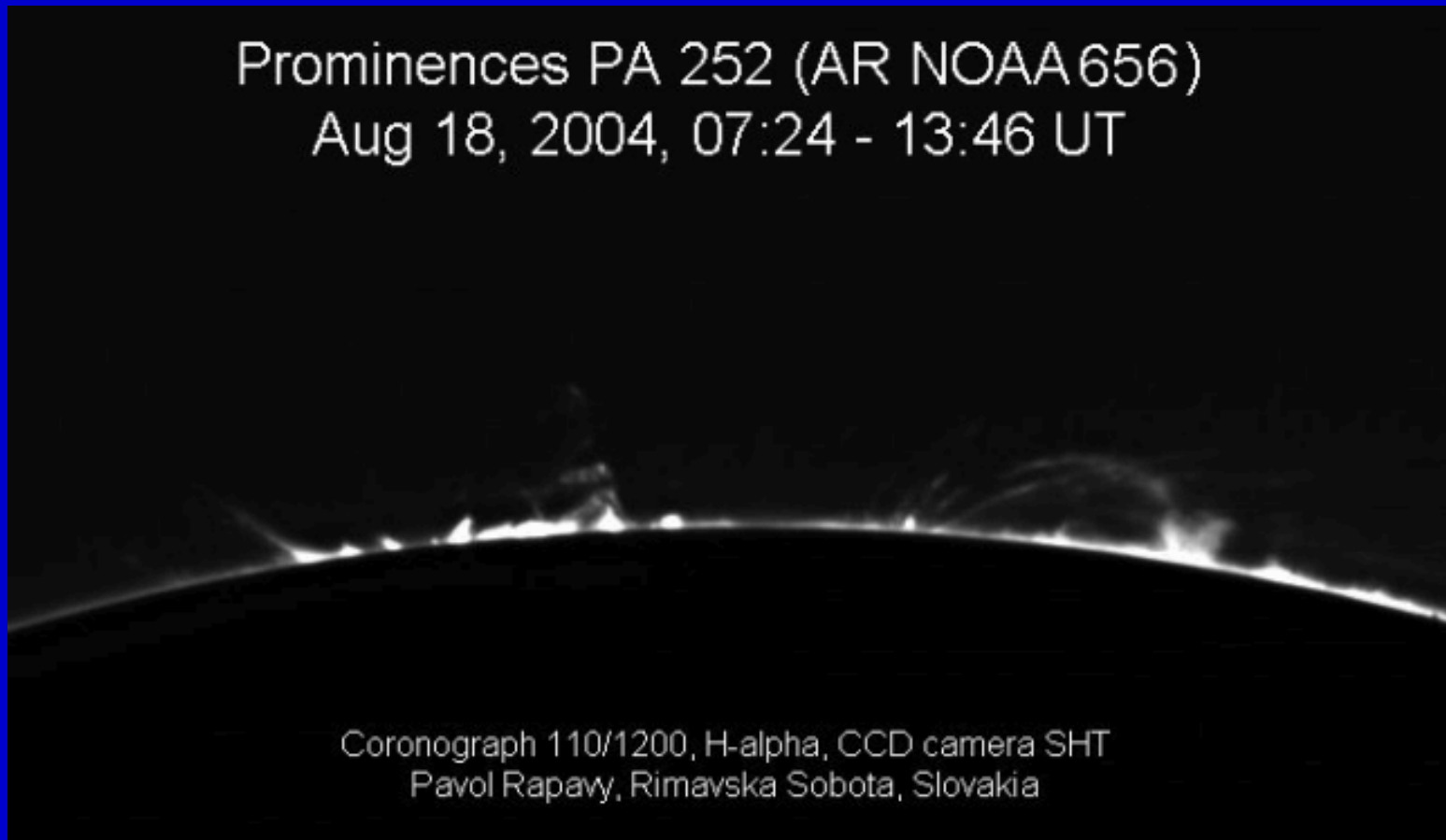
Prominences PA 275
July 31, 2004, 12:07 - 13:31 UT



Coronagraph 110/1200, H-alpha, CCD camera SHT
Pavol Rapavy, Rimavska Sobota, Slovakia

PROTUBERANCIE - animácie

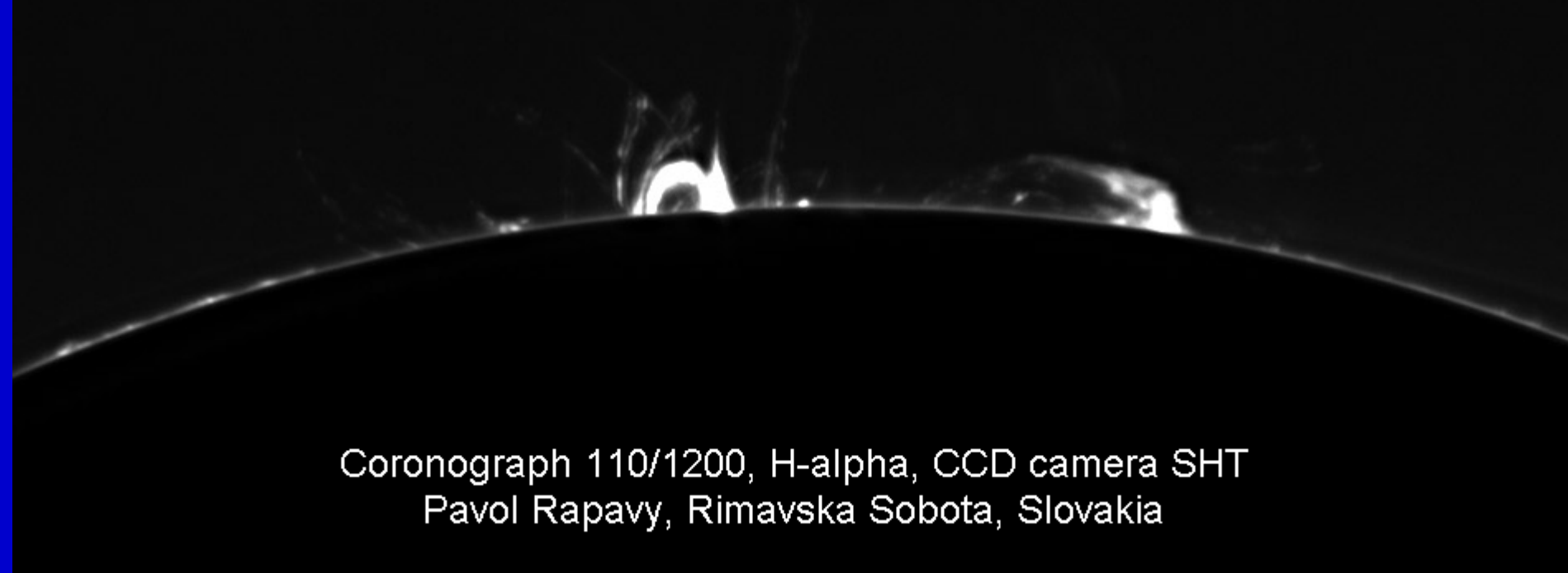
Prominences PA 252 (AR NOAA 656)
Aug 18, 2004, 07:24 - 13:46 UT



Coronagraph 110/1200, H-alpha, CCD camera SHT
Pavol Rapavy, Rimavska Sobota, Slovakia

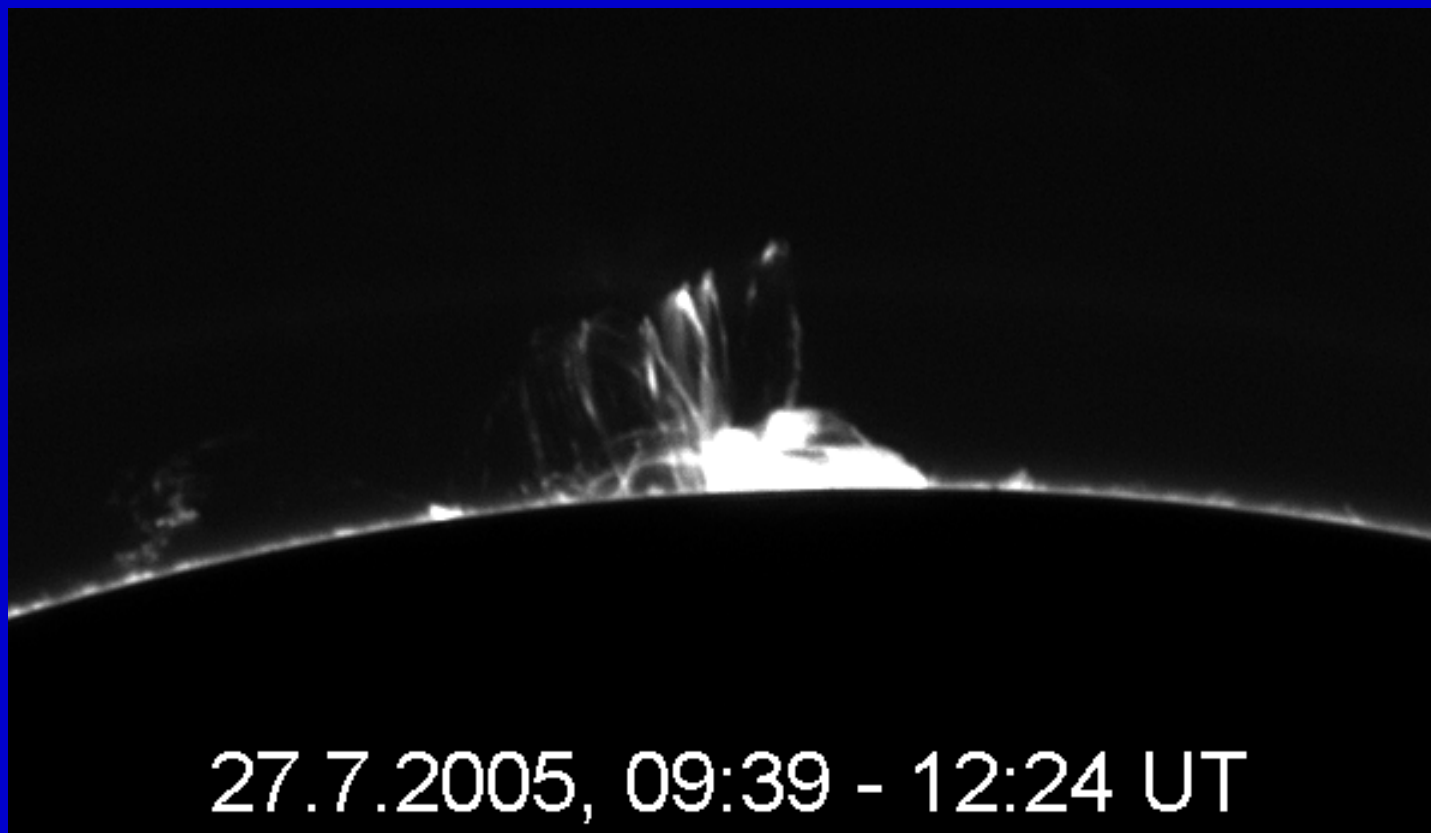
PROTUBERANCIE - animácie

Prominences PA 252 (AR NOAA 656)
Aug 19, 2004, 08:30 - 10:00 UT

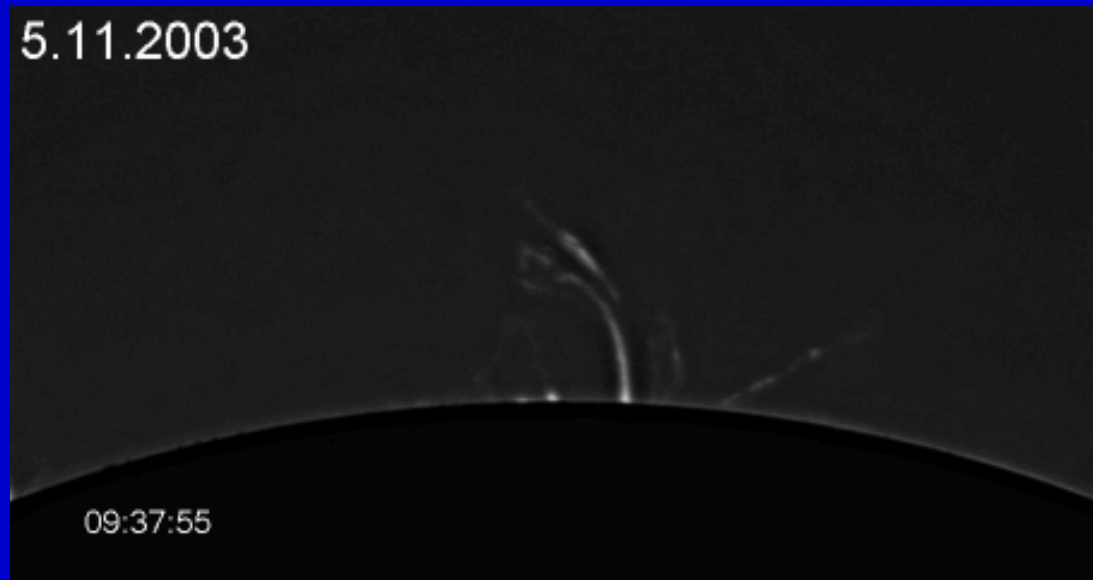


Coronagraph 110/1200, H-alpha, CCD camera SHT
Pavol Rapavy, Rimavska Sobota, Slovakia

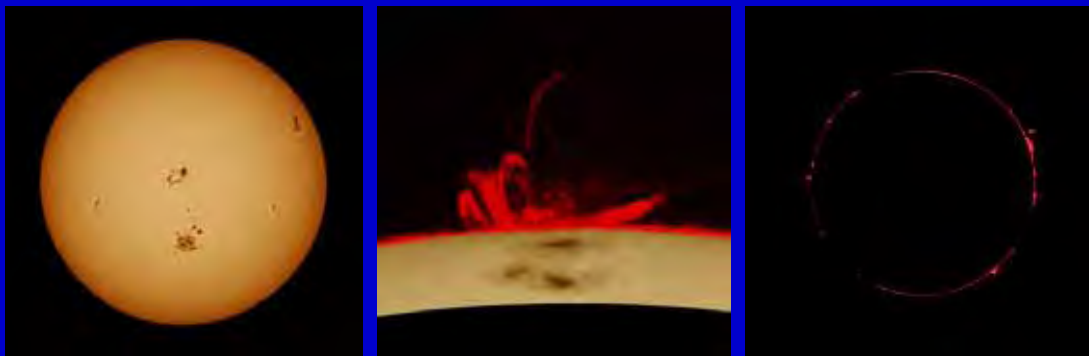
PROTUBERANCIE - animácie



PROTUBERANCIE - animácie



POPULARIZÁCIA



VYUŽITIE

disk: dokumentácia aktivity, popularizácia

detaily: vývoj slnečných škvŕn (fakul. polí), vlastné pohyby, rotácia,..., popularizácia

protuberancie: dokumentácia aktivity, vývoj protuberancií, fotometria ?, ...,popularizácia

Perspektívy / úlohy

- autopointácia + úprava sw CCD
- „zautomatizovanie“ pozorovaní
- „zautomatizovanie“ spracovanie (IDL – DF, FF, archív)
- CESAR (Central European Solar ARchives)