



Bild: Funkwellenempfänger im orbital

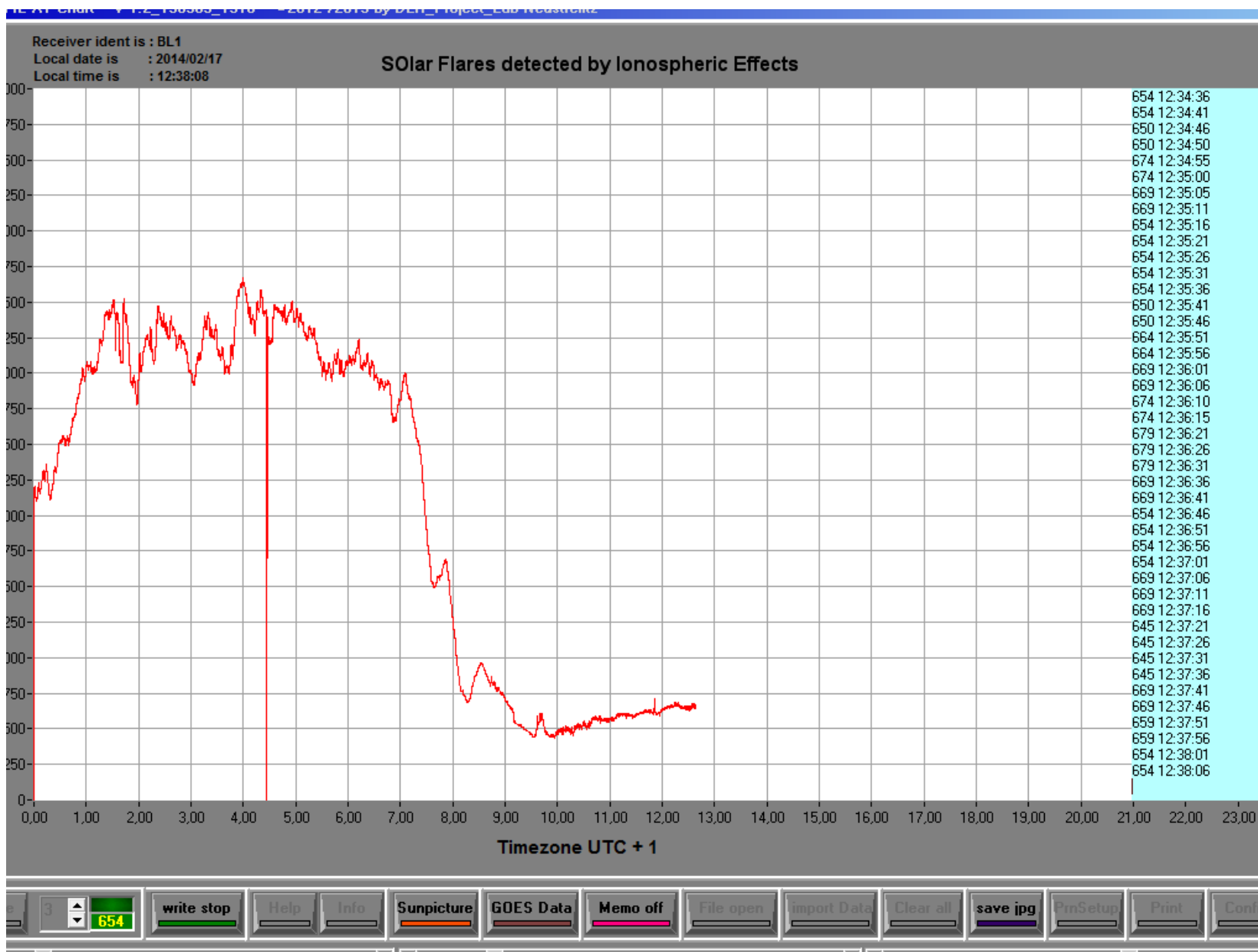
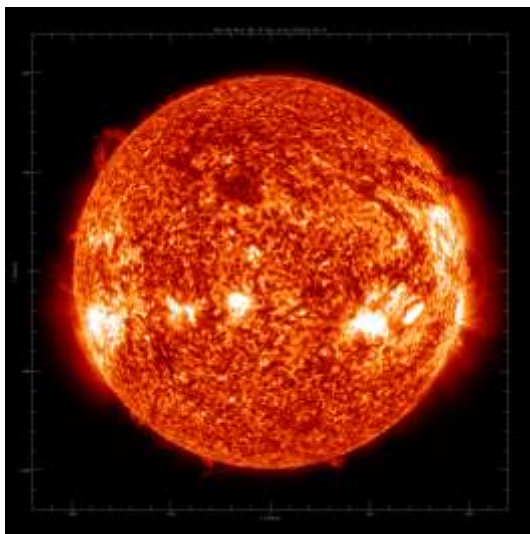
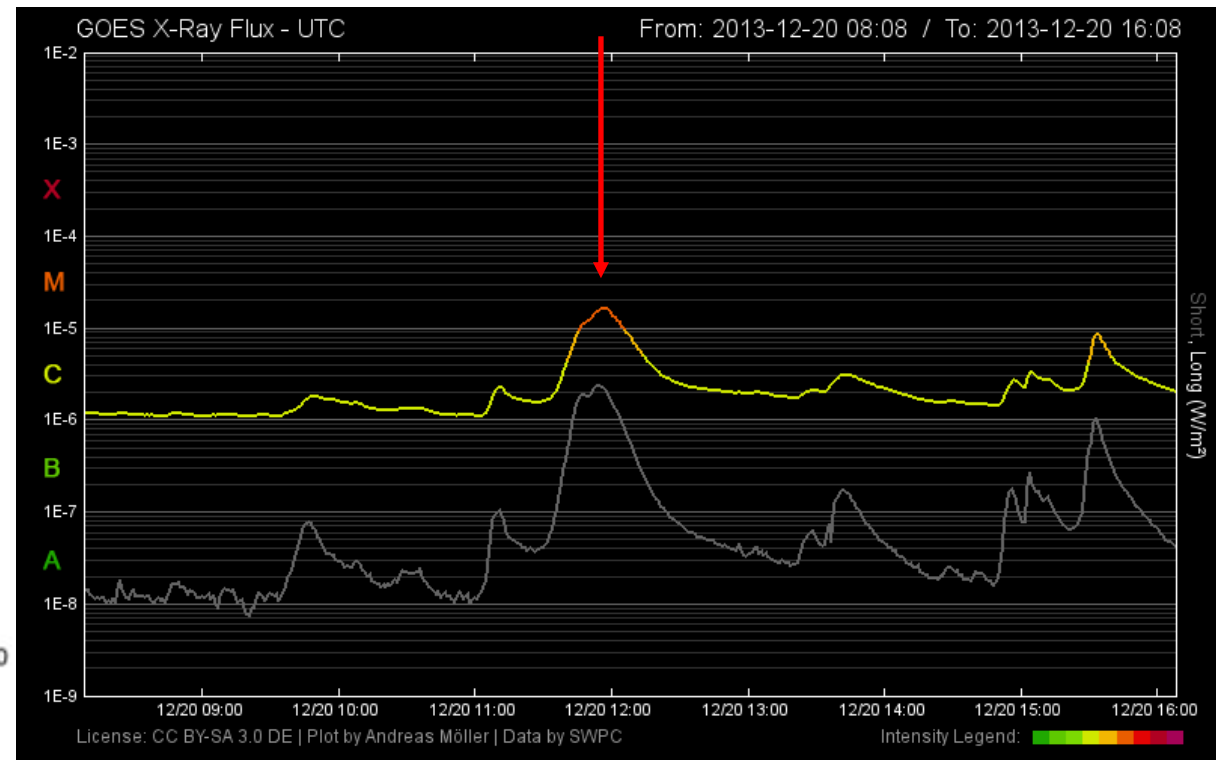
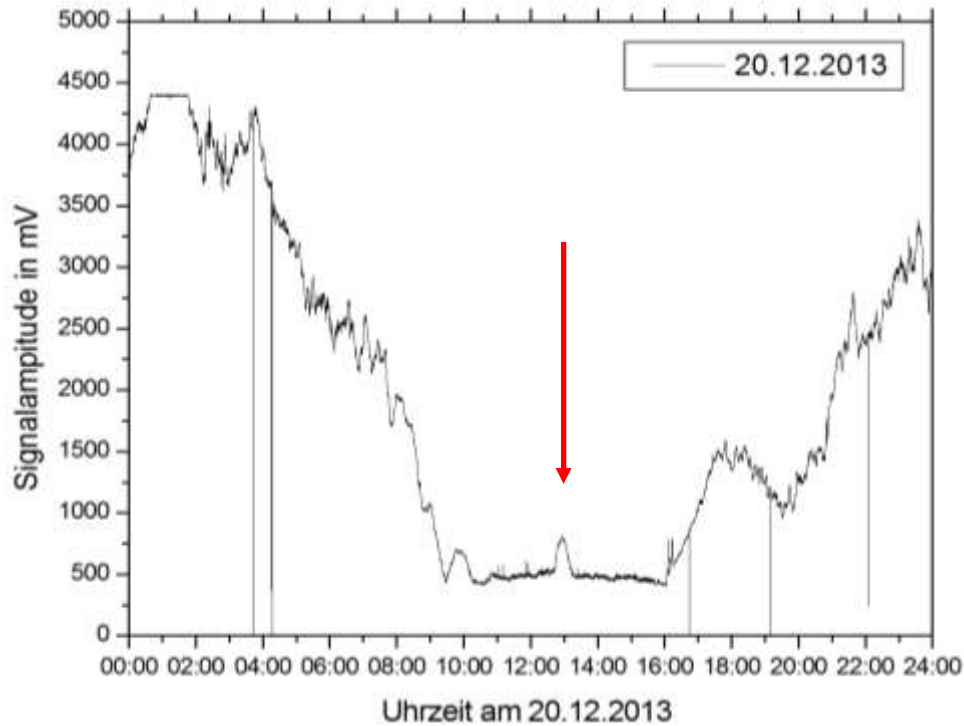
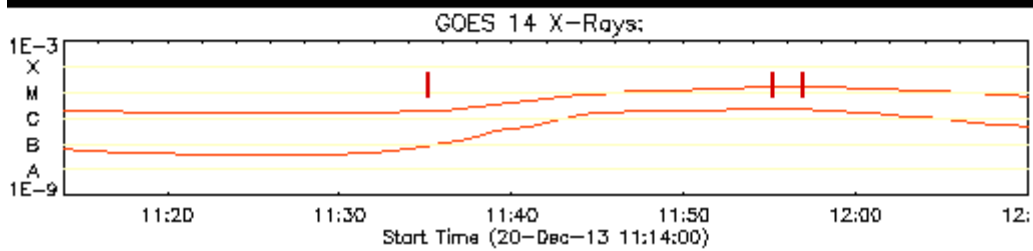
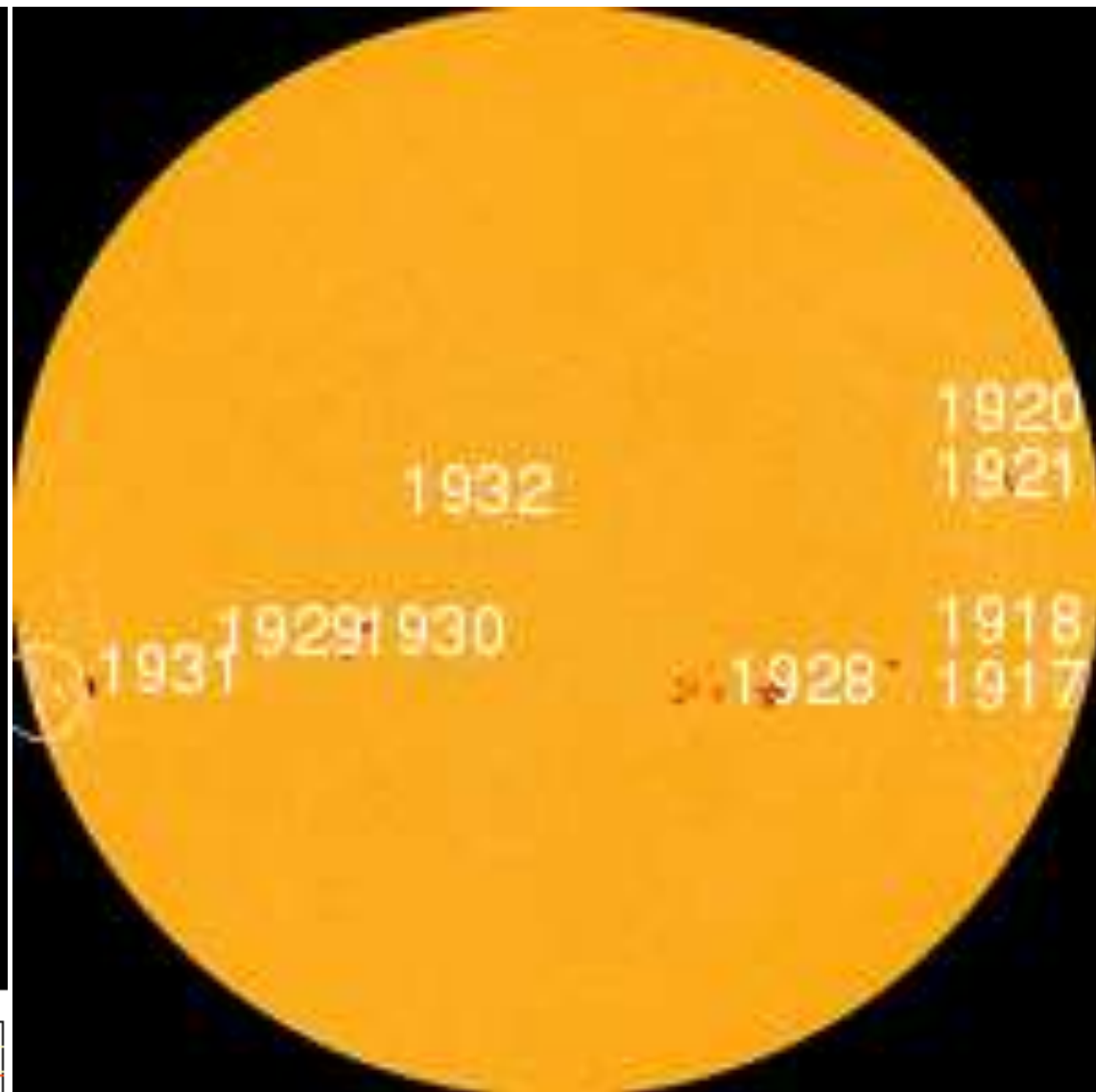
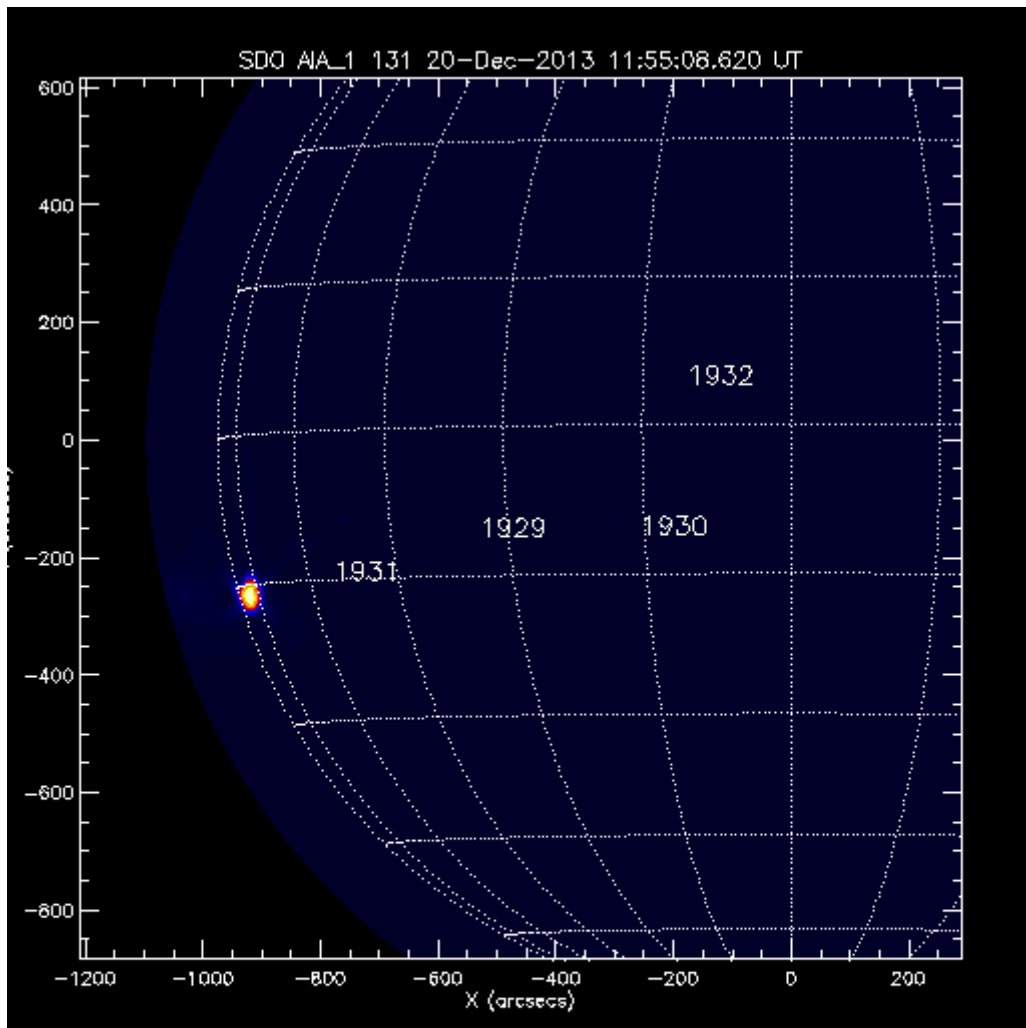
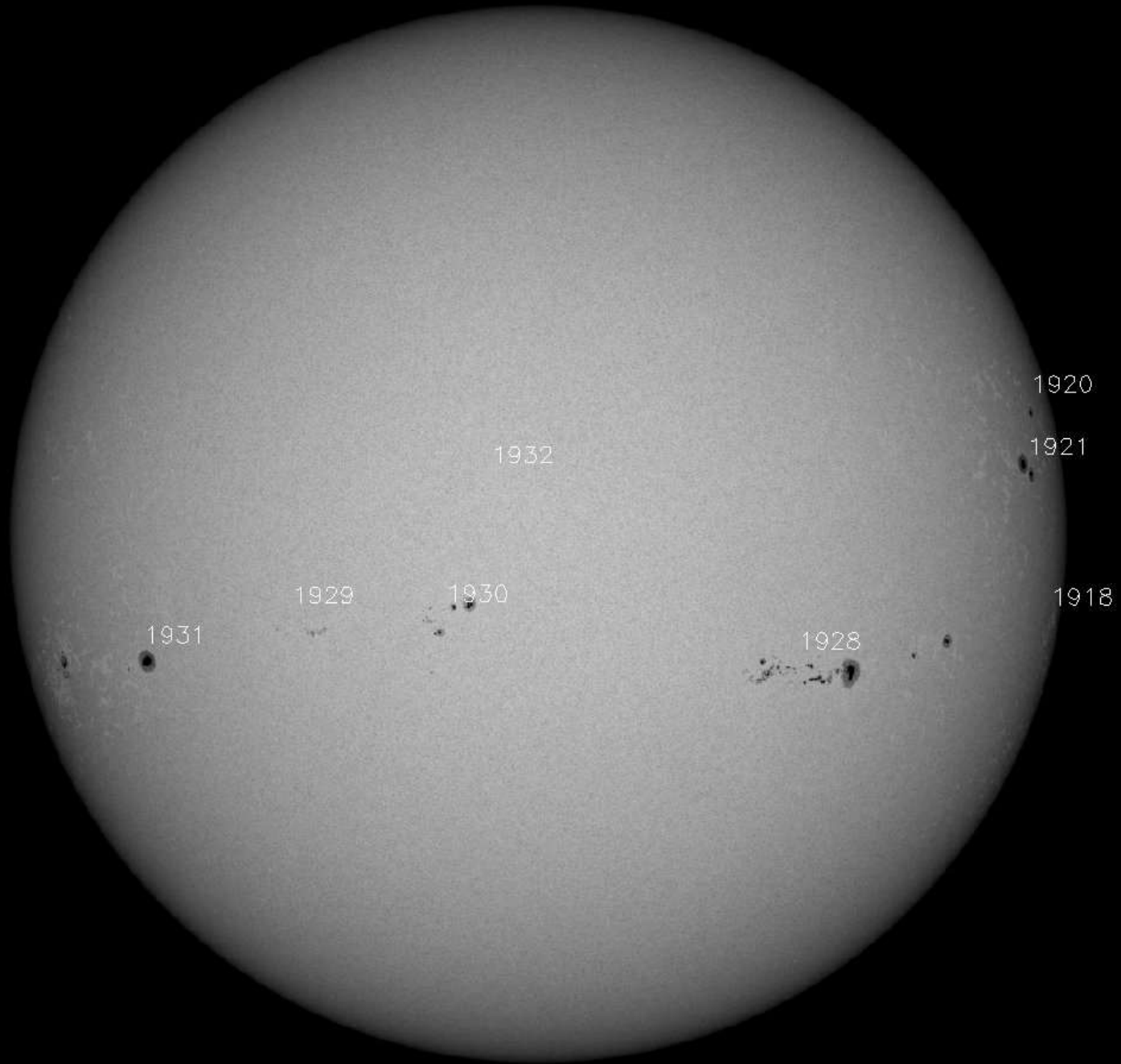


Bild: Datenerfassung im orbital

# Solarer Flare am 20.12.2013 (Zeit: 12.55 Uhr UTC + 1) (NOAA-Skala: M)







1920

1921

1932

1918

1928

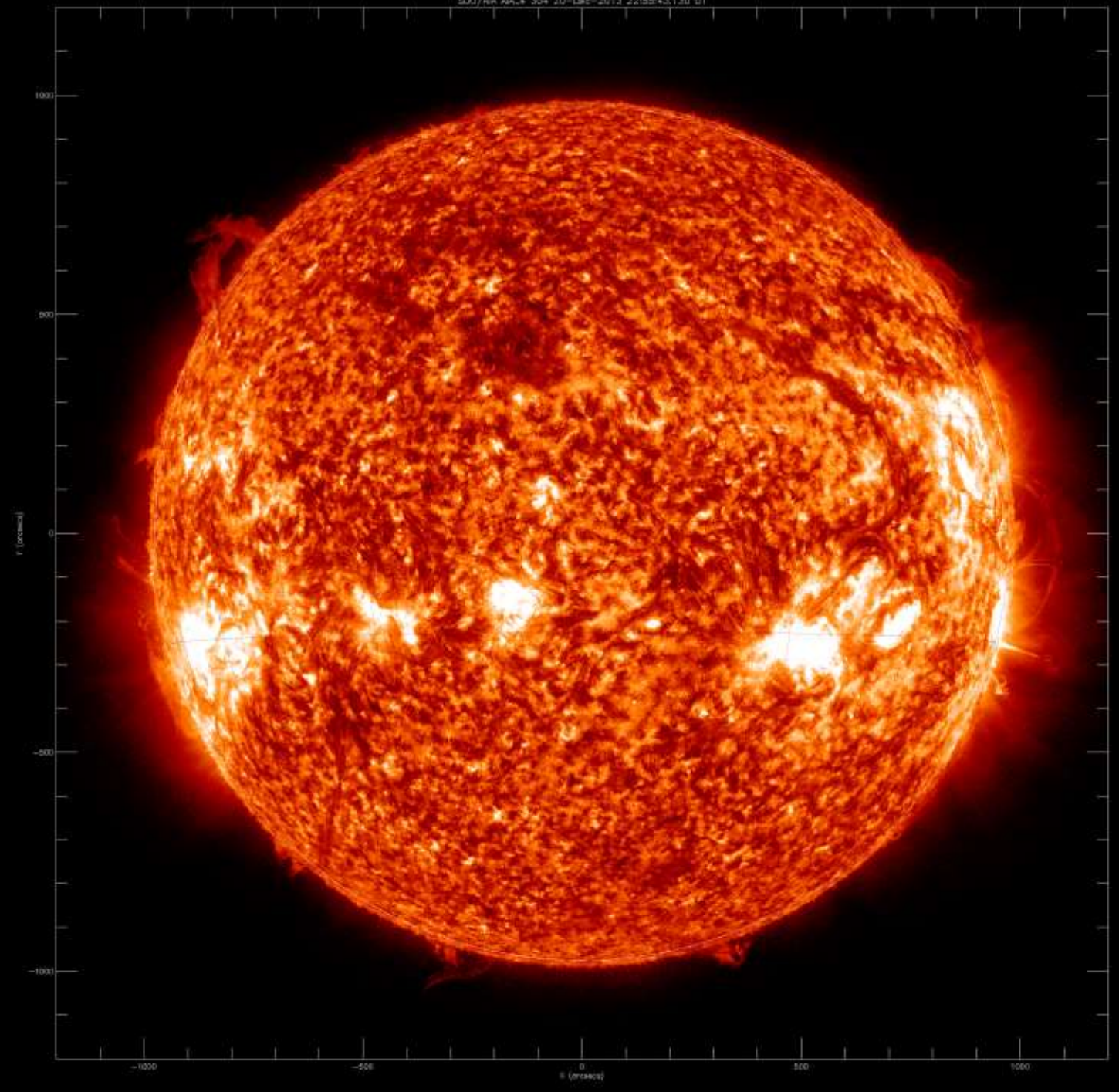
1930

1929

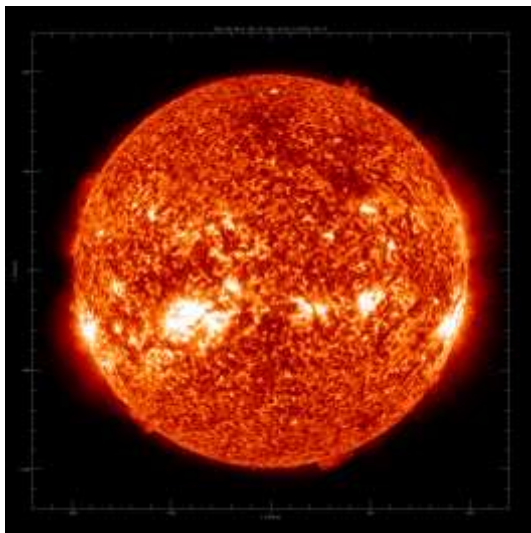
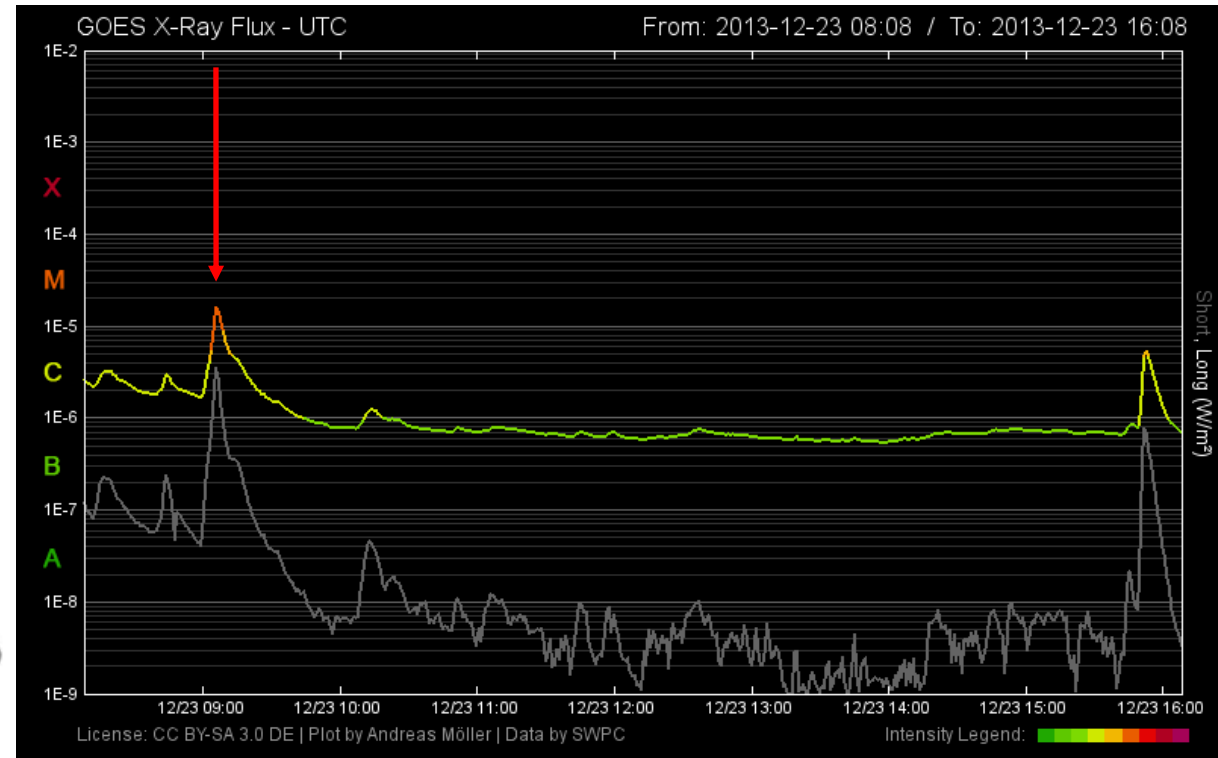
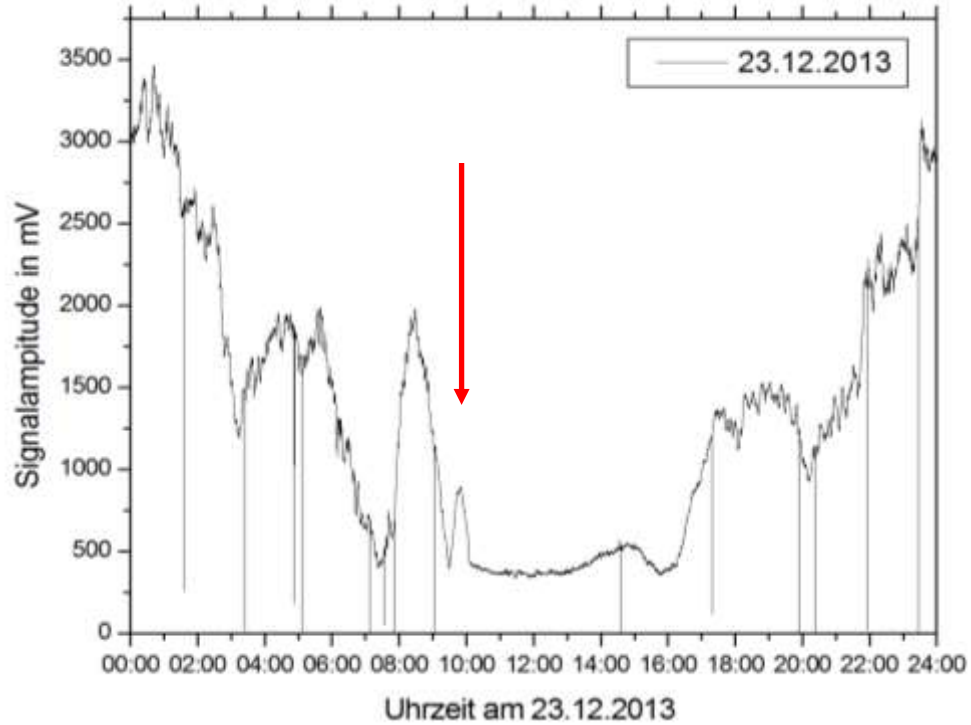
1931



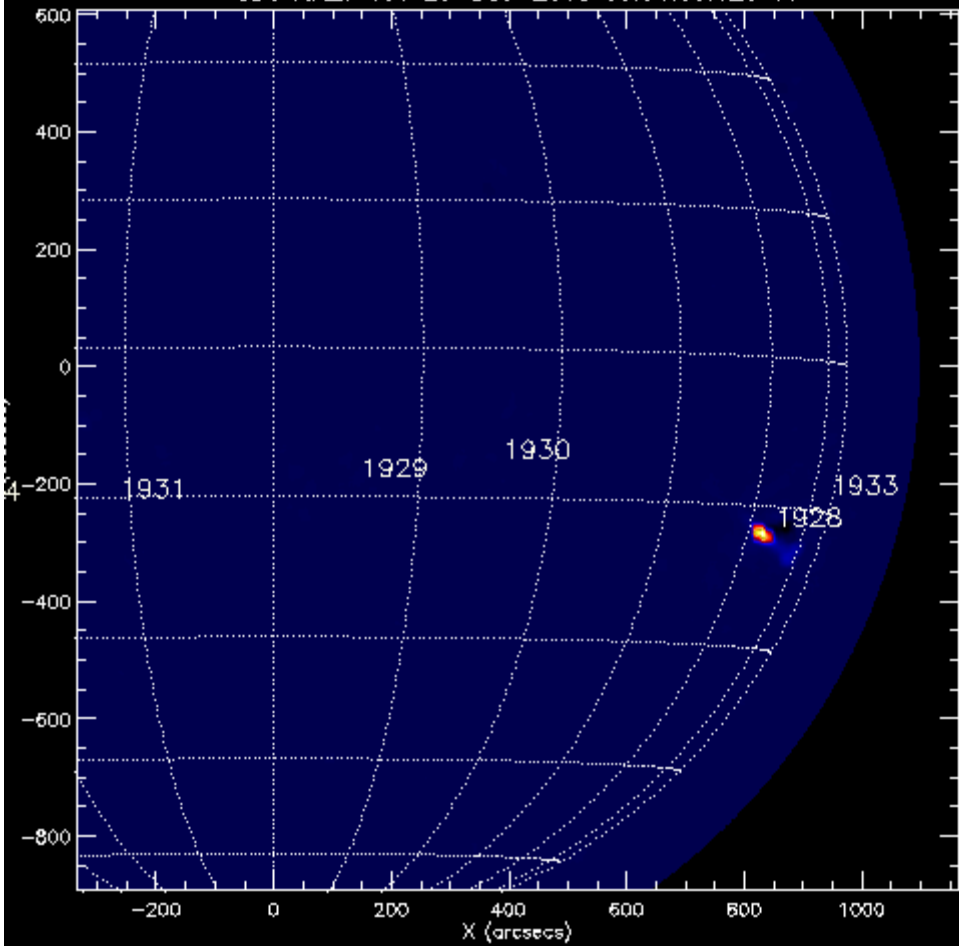
300/AA AIA\_4 304 20-Dec-2013 22:55:43.130 UT



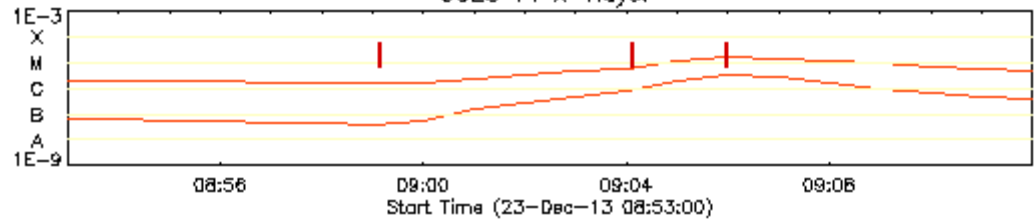
# Solarer Flare am 23.12.2013 (Zeit: 9.49 Uhr UTC + 1) (NOAA-Skala: M)



SDO AIA\_1 131 23-Dec-2013 09:04:08.620 UT

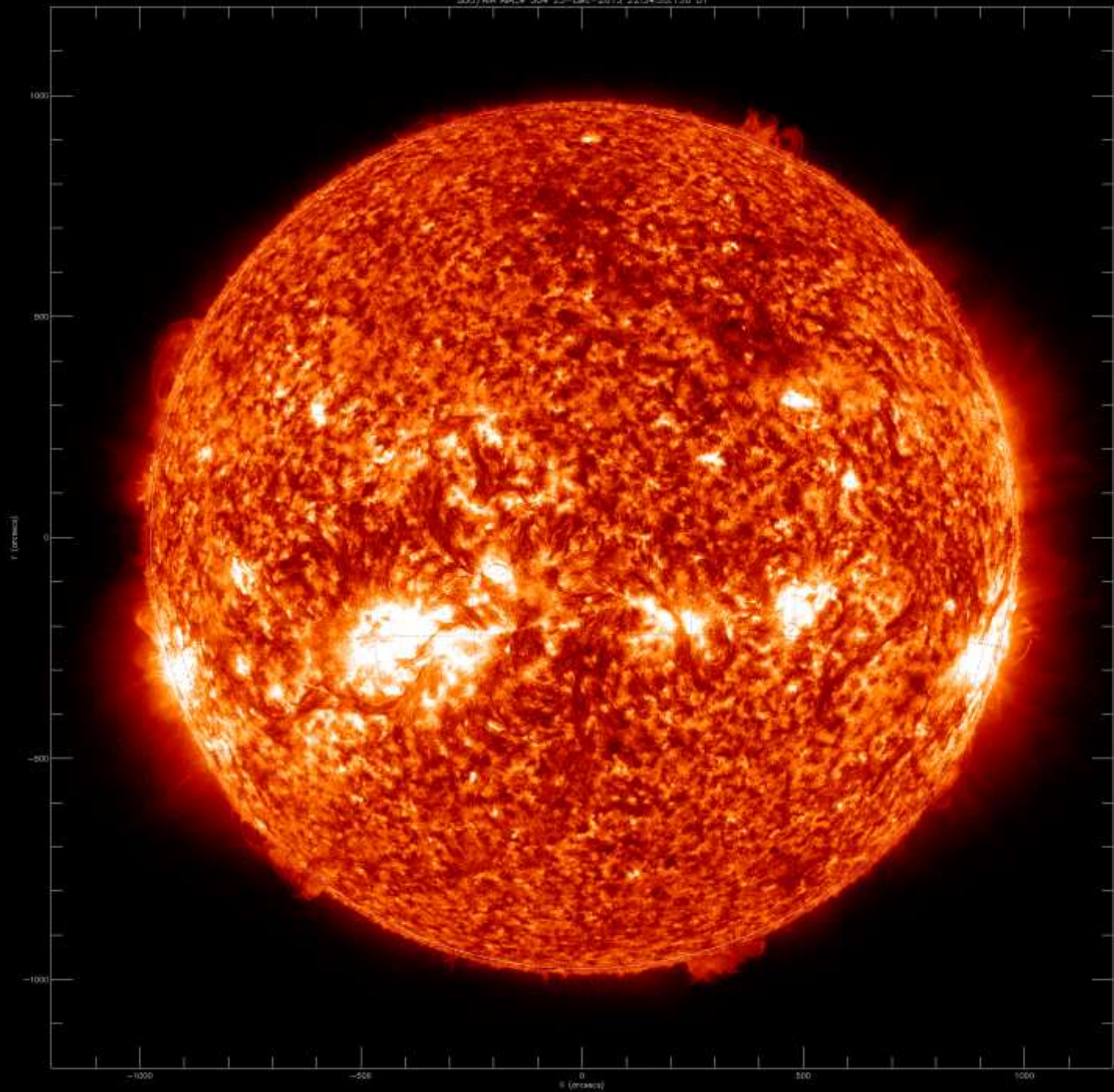


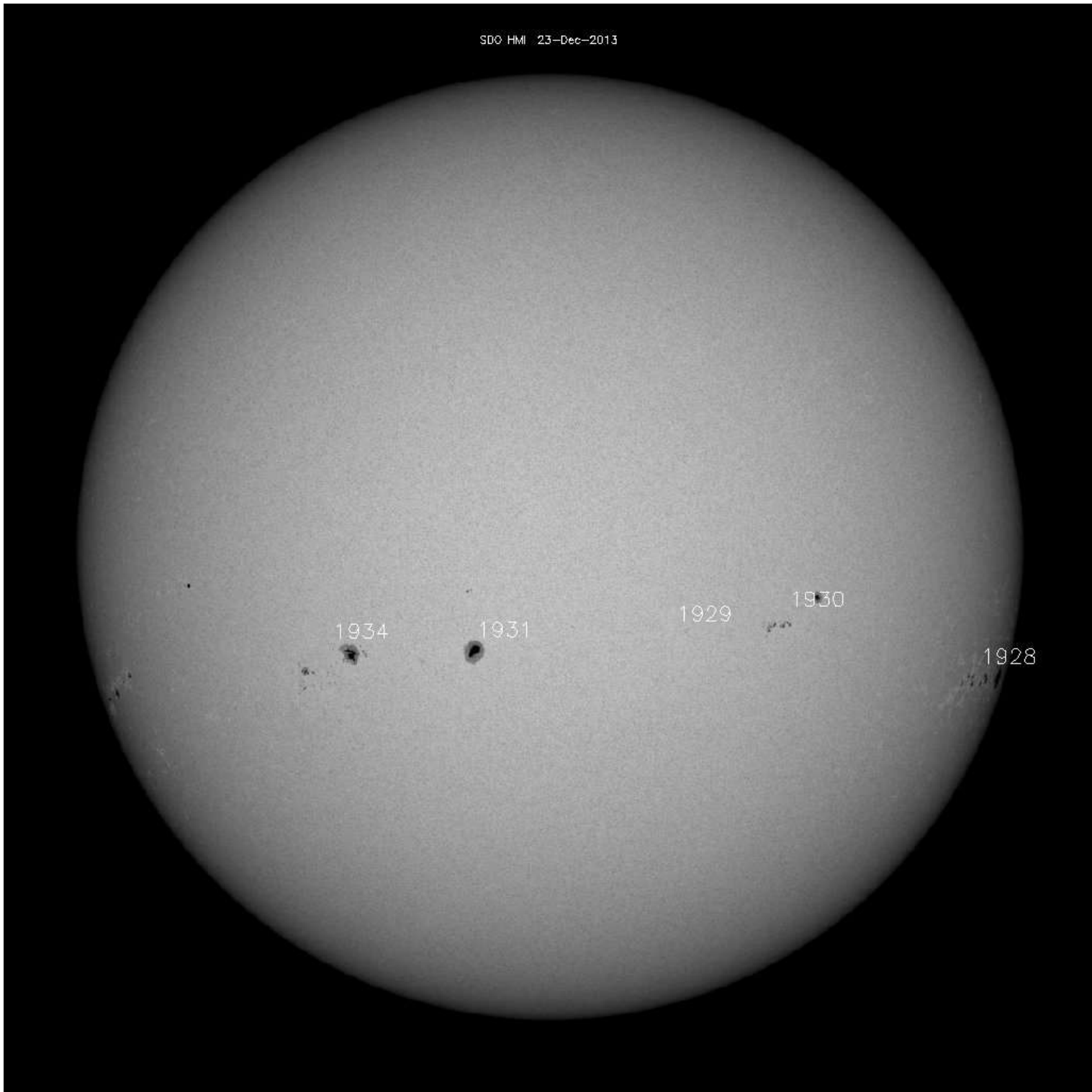
GOES 14 X-Rays:





SDO/AIA AIA\_4 304 23-Dec-2013 22:34:55.130 UT





1934

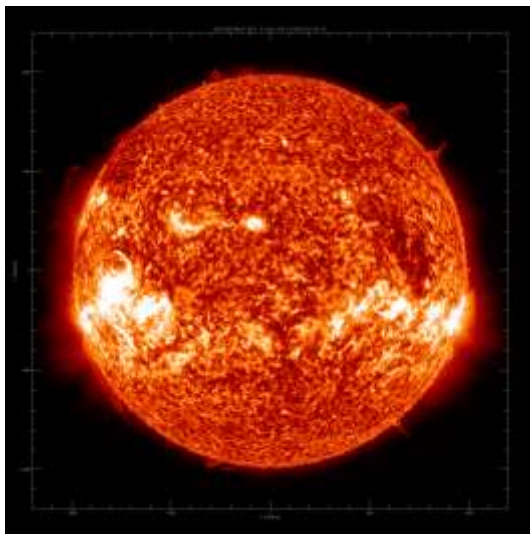
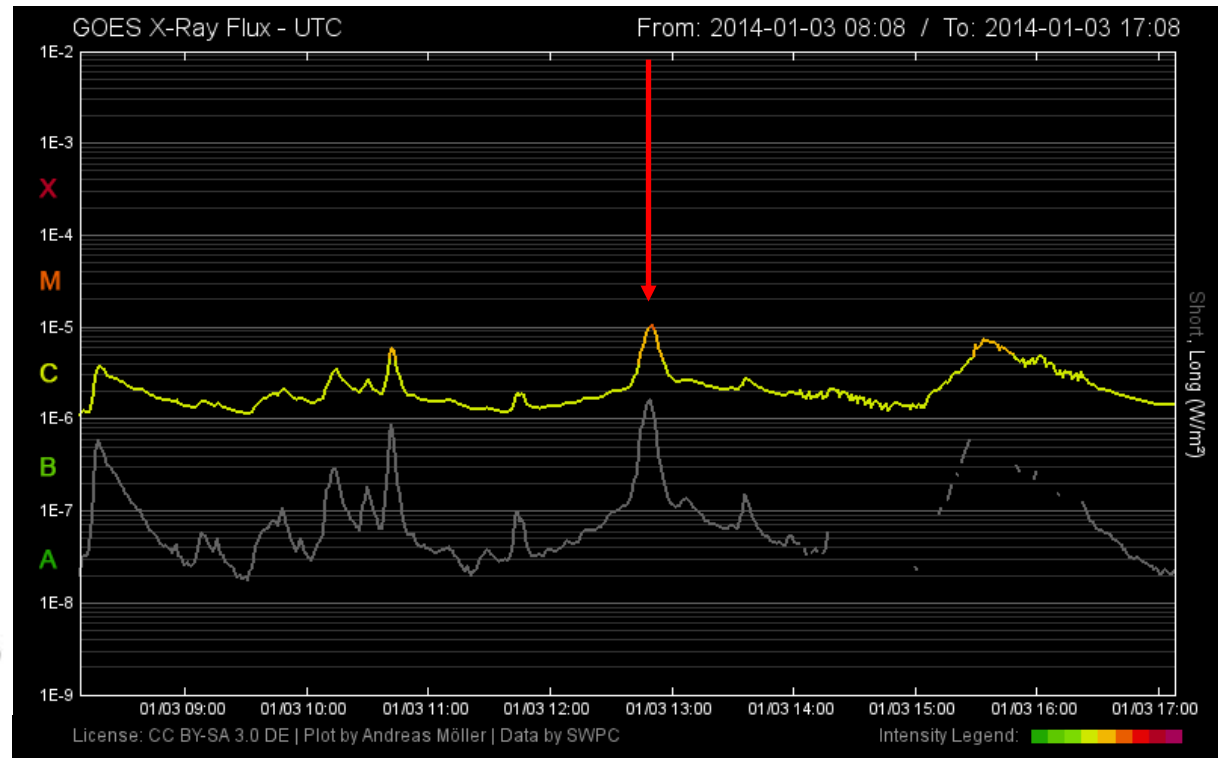
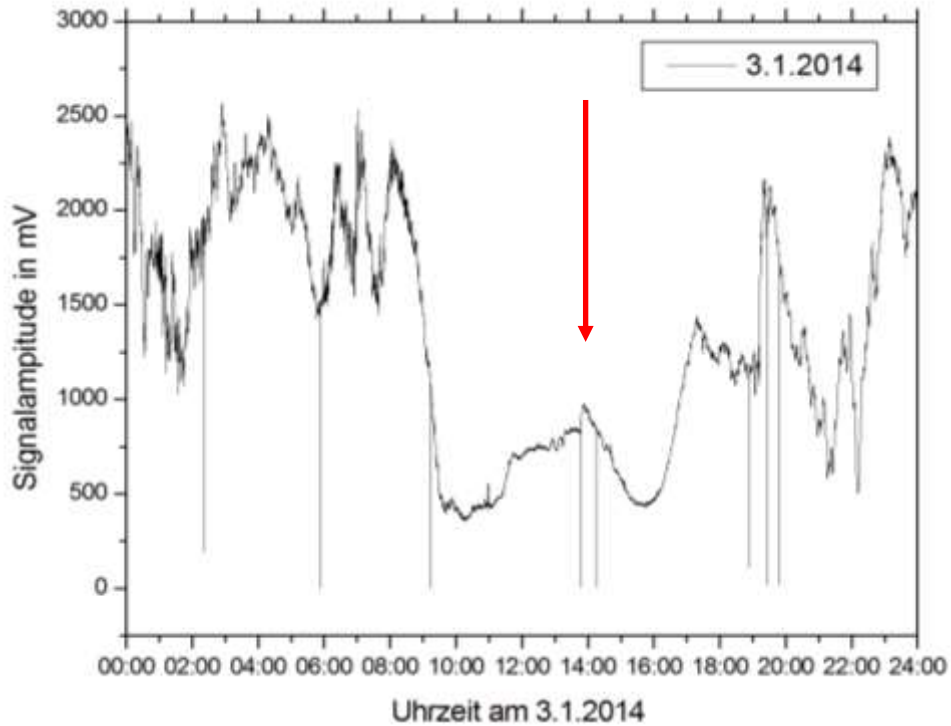
1931

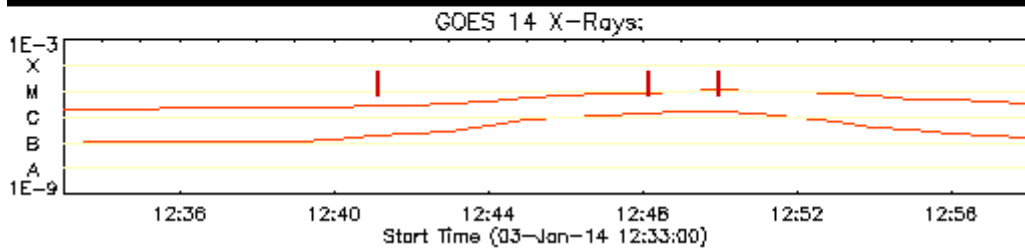
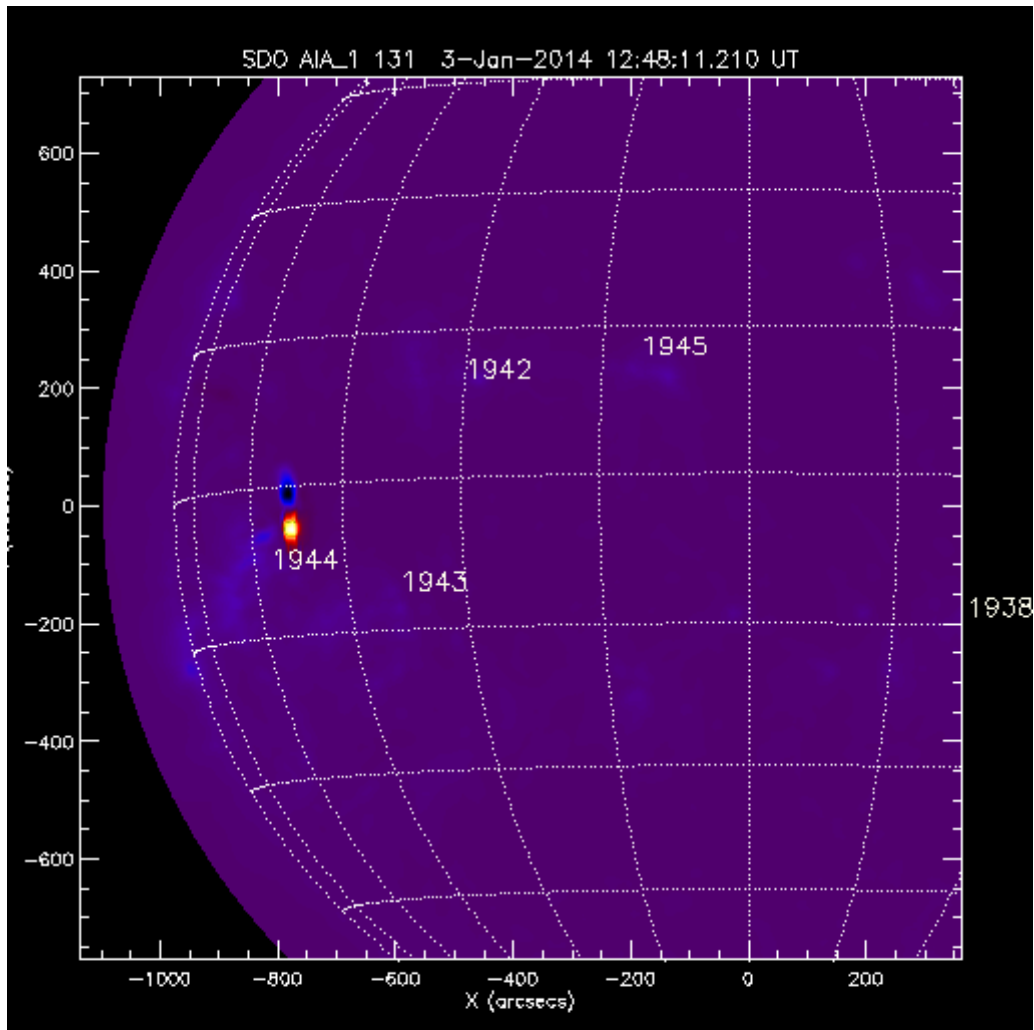
1929

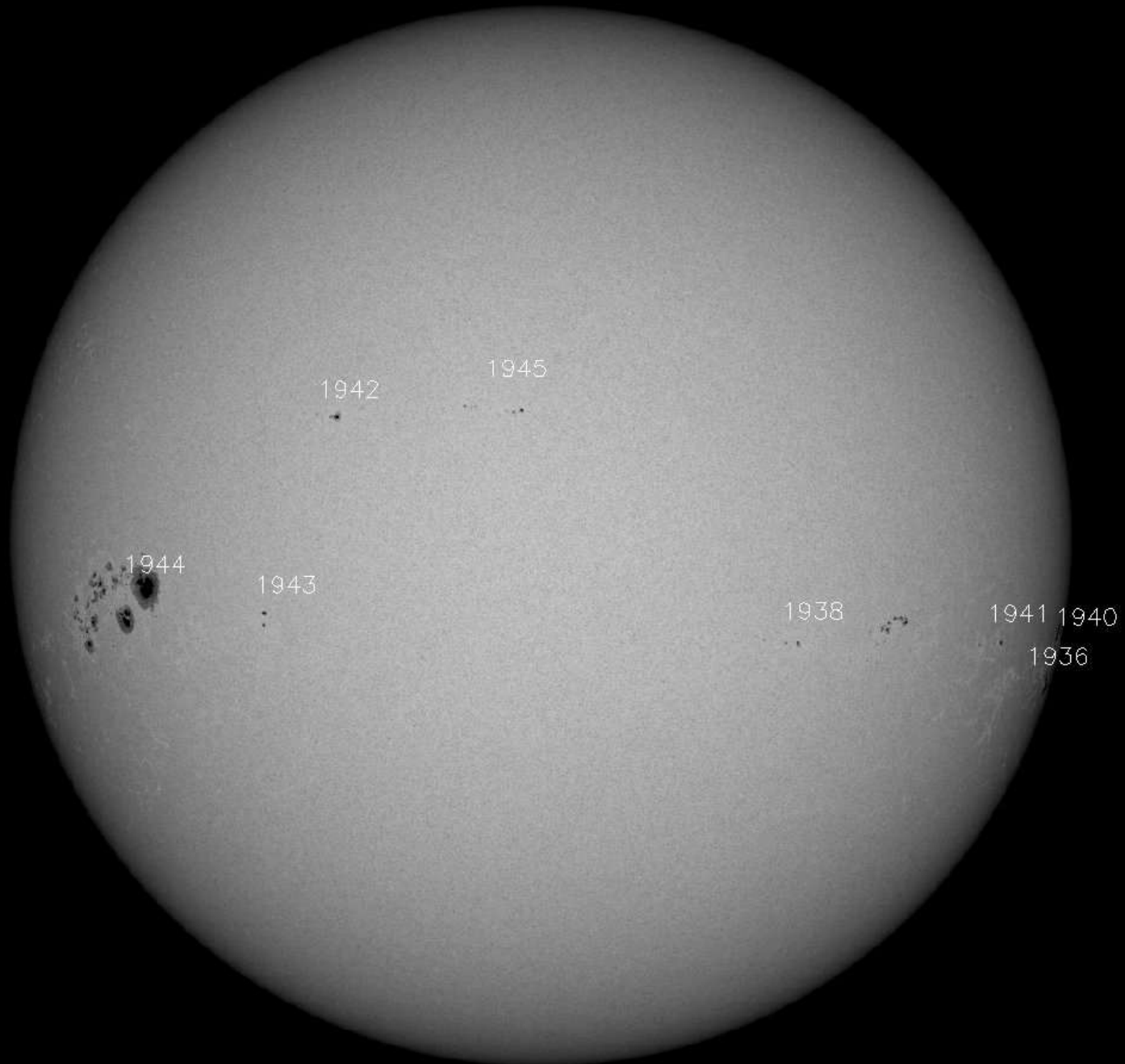
1930

1928

# Solarer Flare am 3.1.2014 (Zeit: 13.54 Uhr UTC + 1) (NOAA-Skala: C)







1942

1945

1944

1943

1938

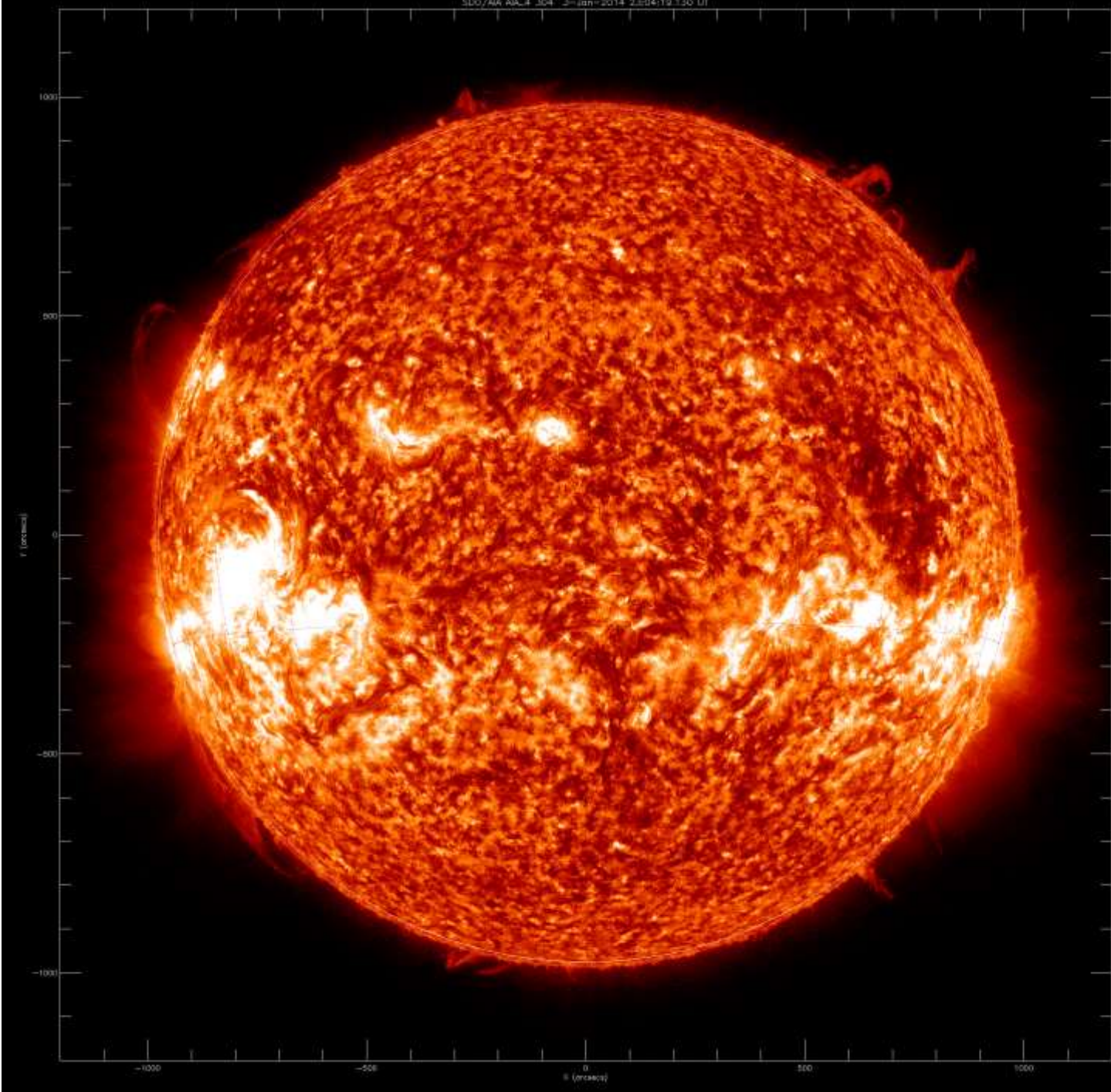
1941

1940

1936

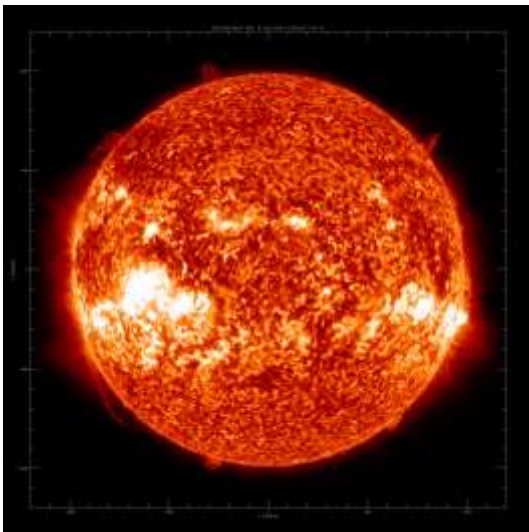
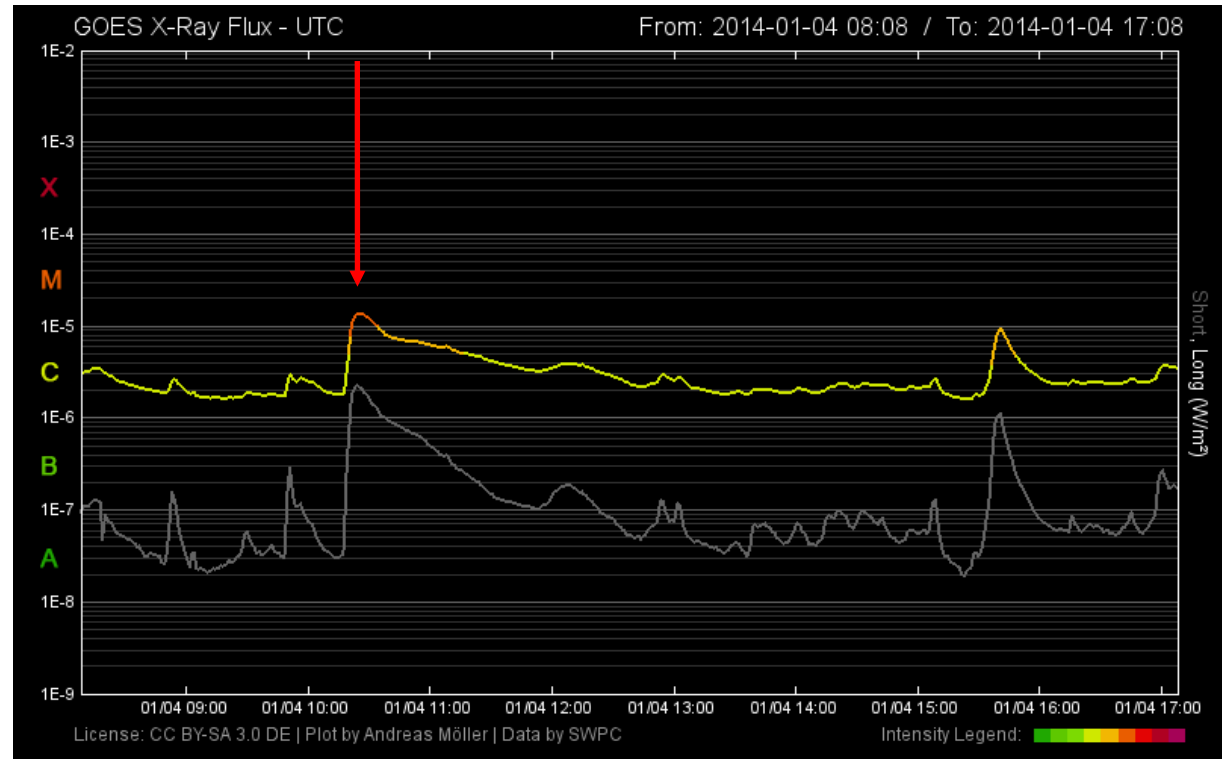
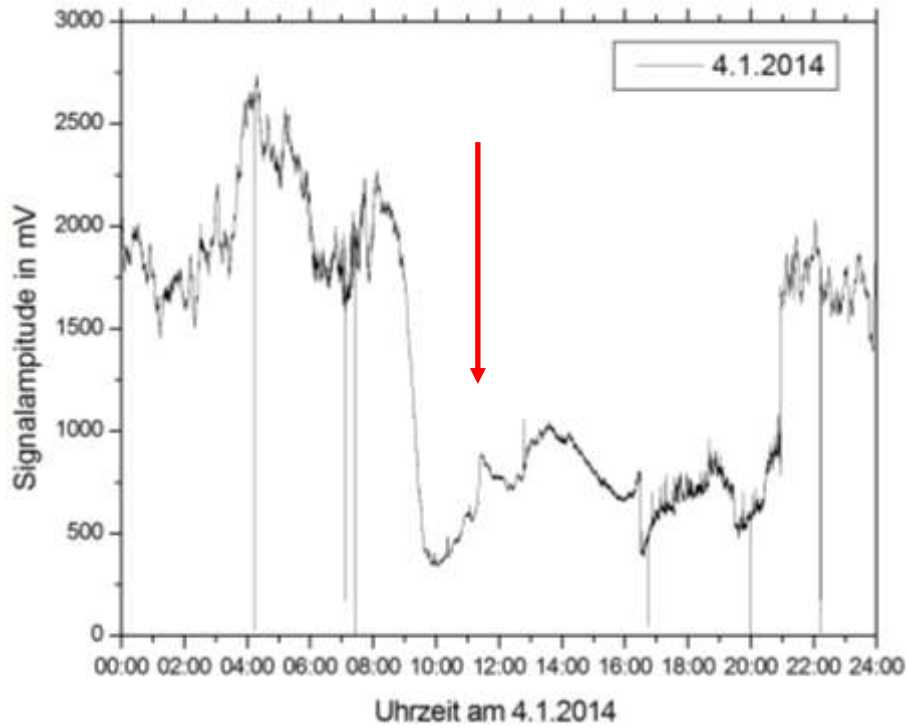


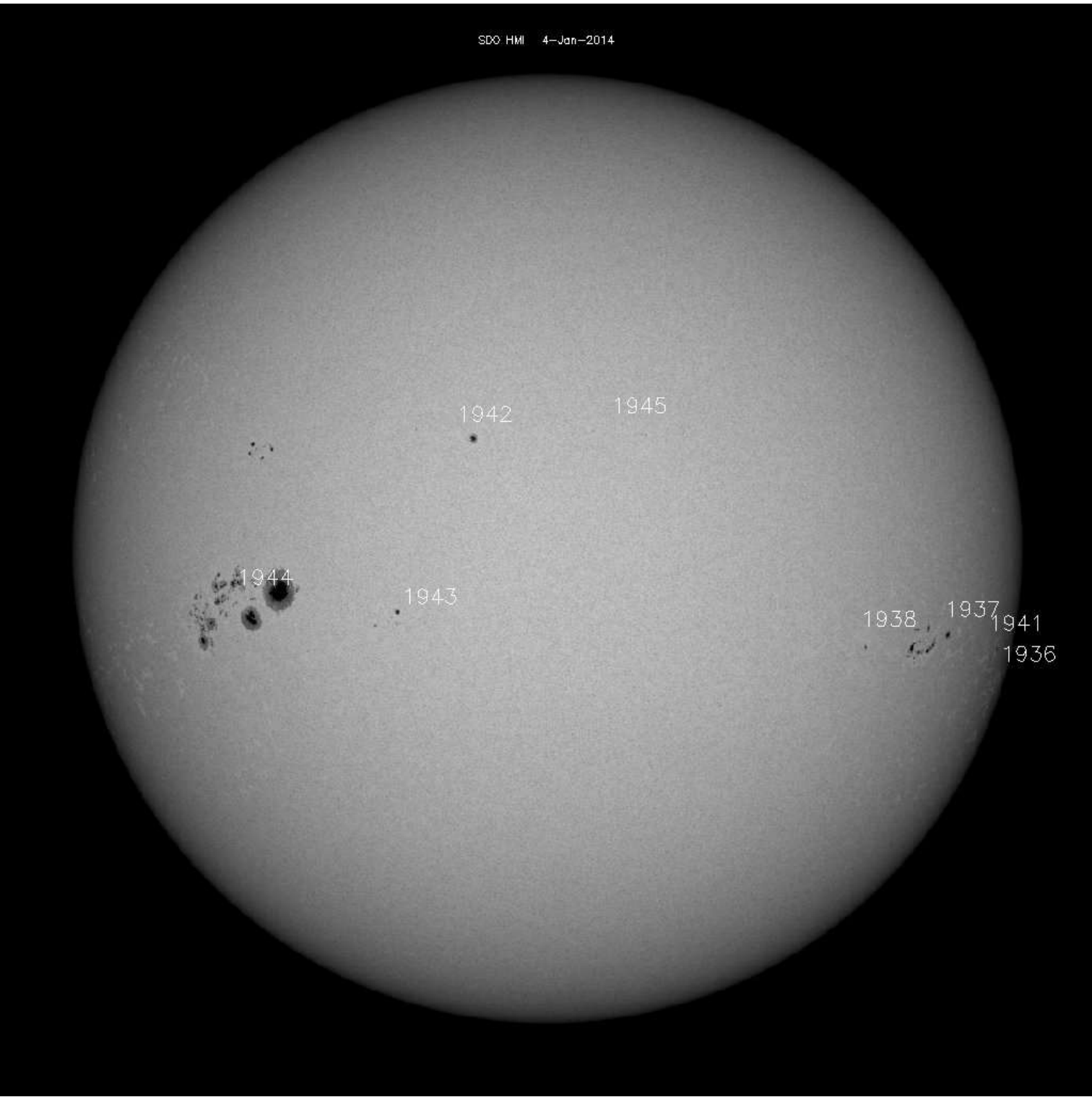
SDO/AIA AIA\_4\_304\_3--Jan--2014\_23:04:19.130 UT





# Solarer Flare am 4.1.2014 (Zeit: 11.25 Uhr UTC + 1) (NOAA-Skala: M)





1942

1945

1944

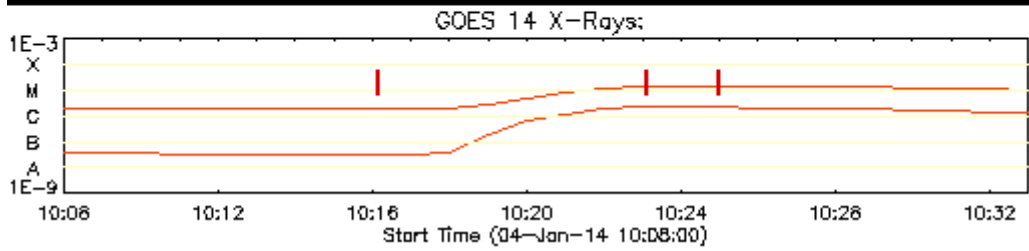
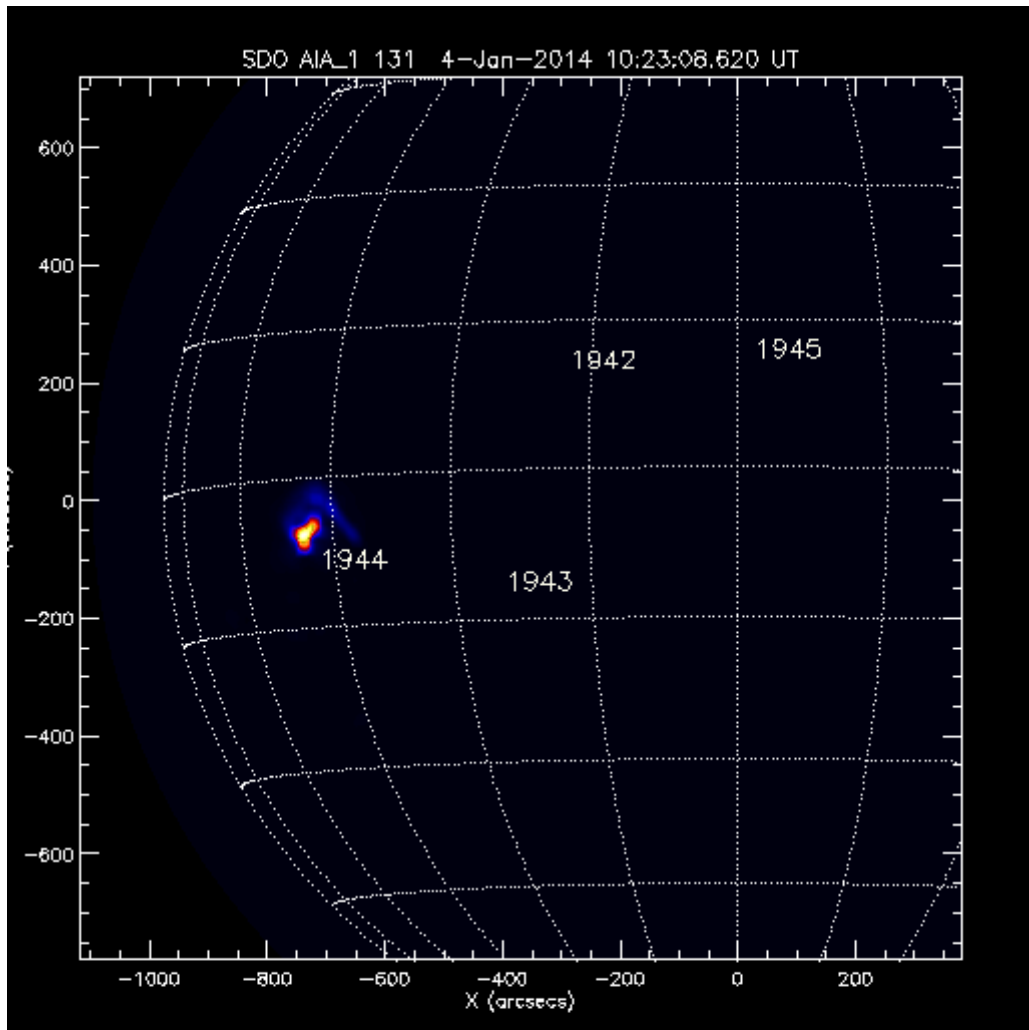
1943

1938

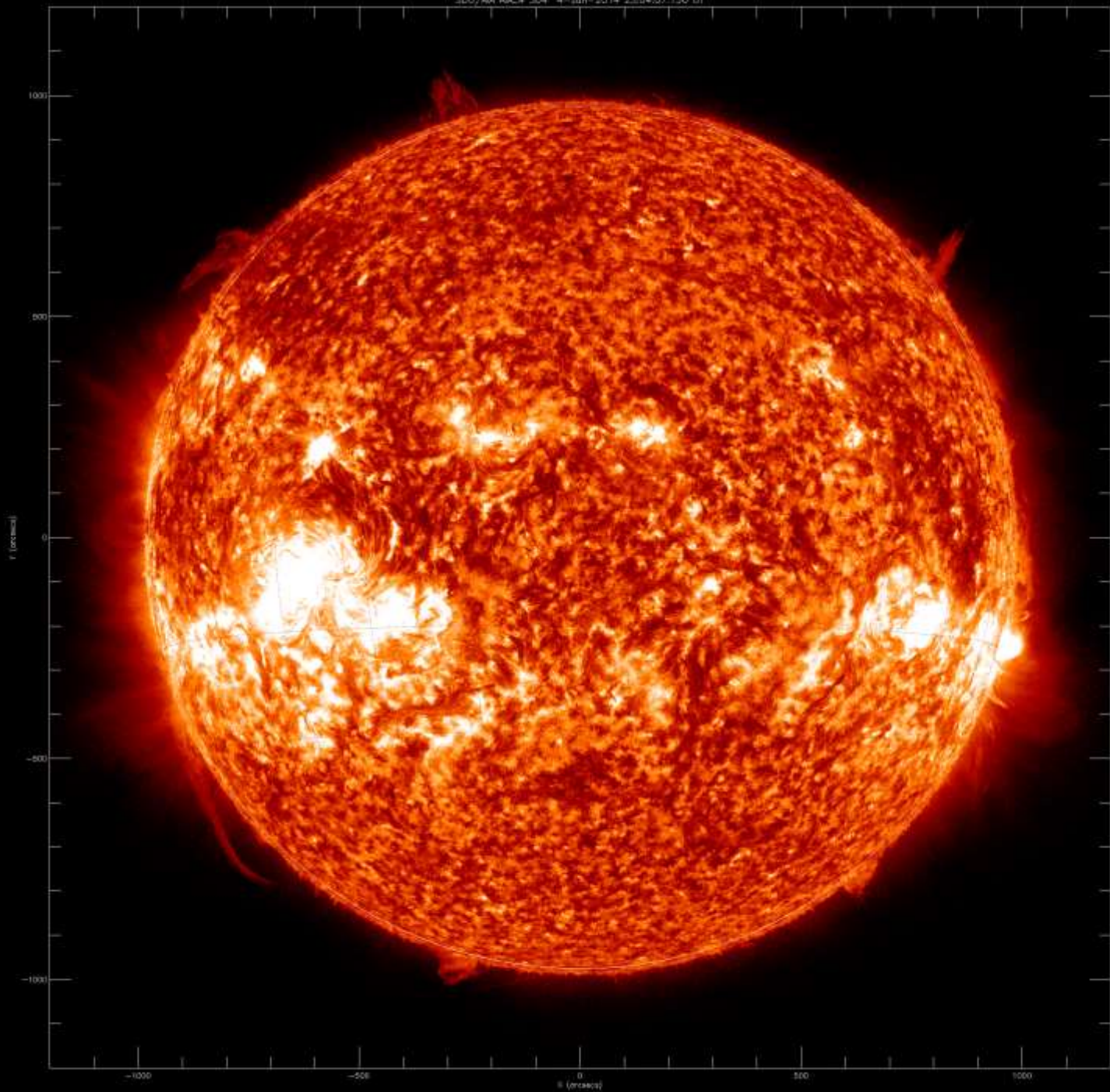
1937

1941

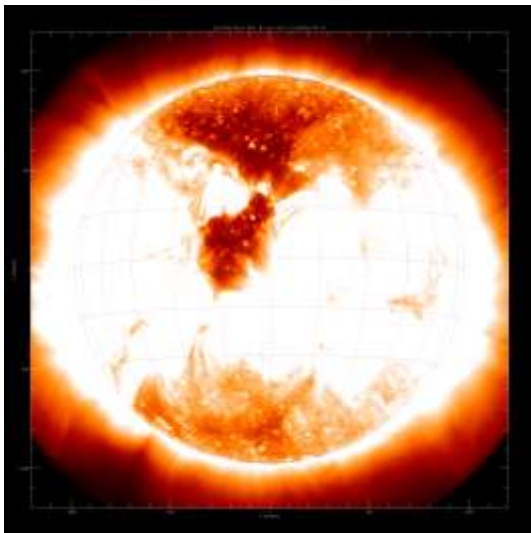
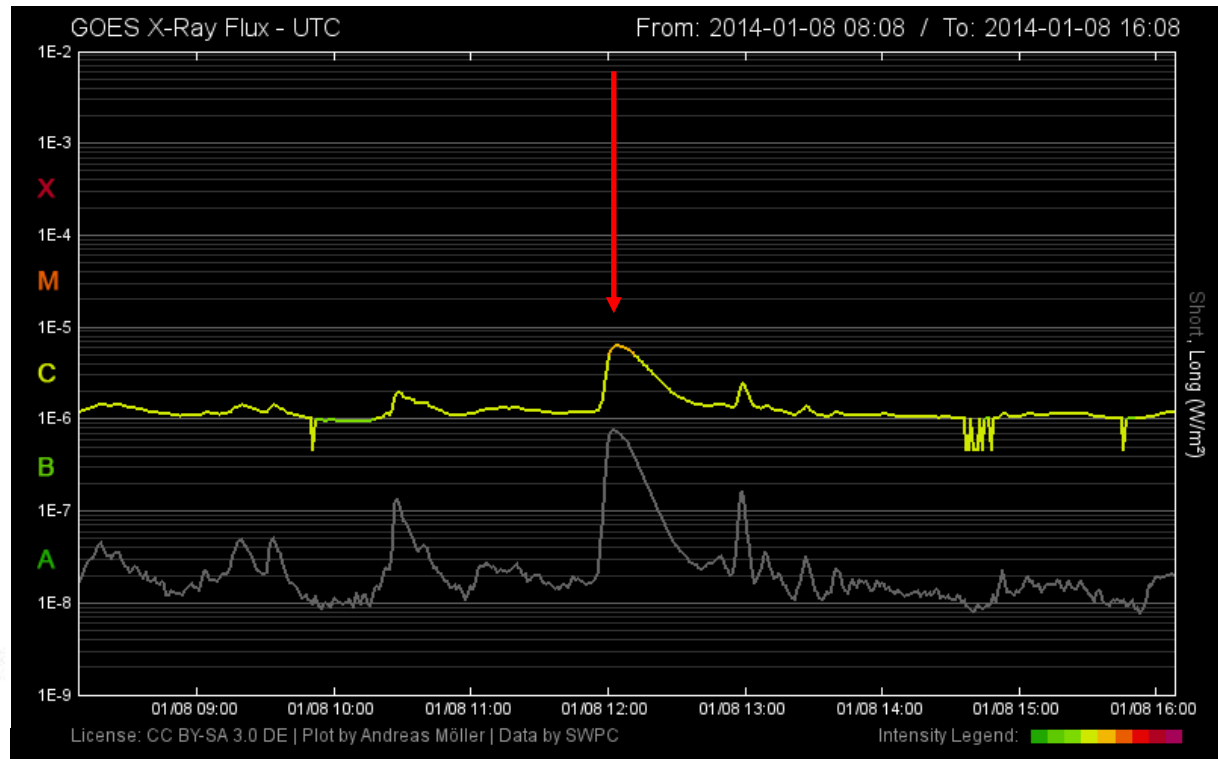
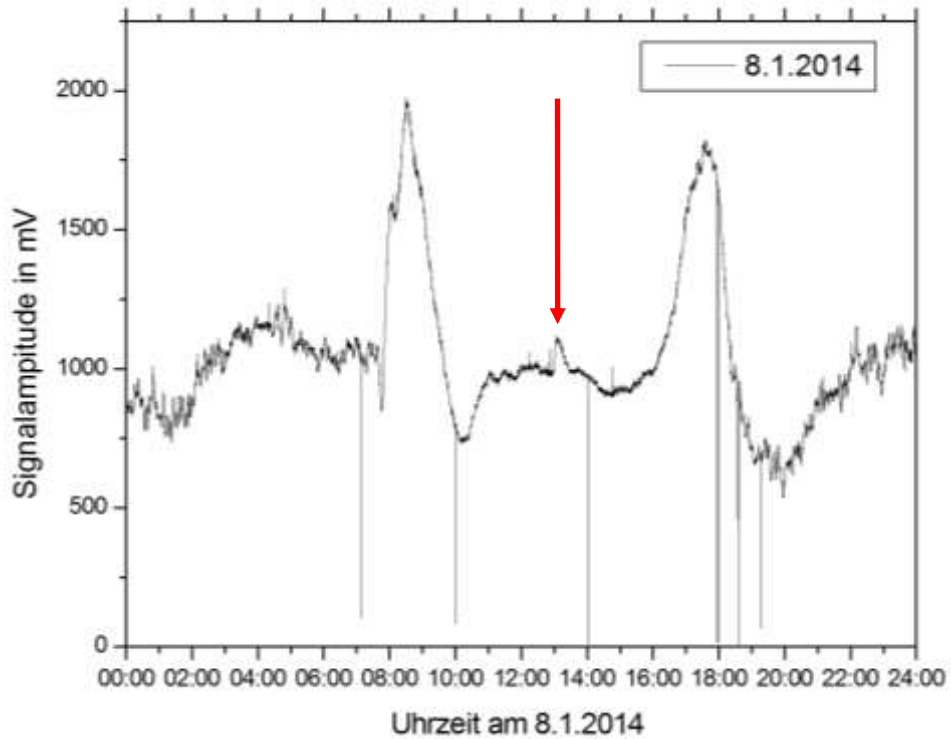
1936

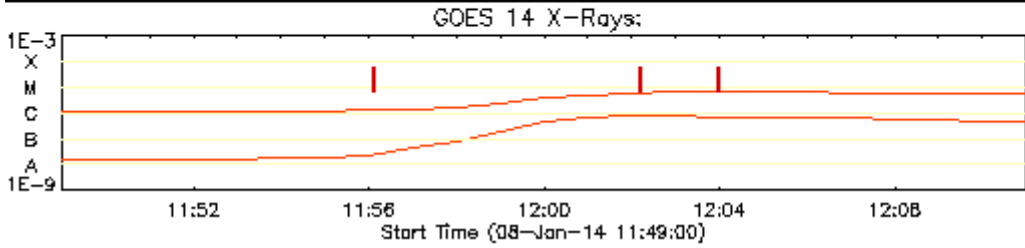
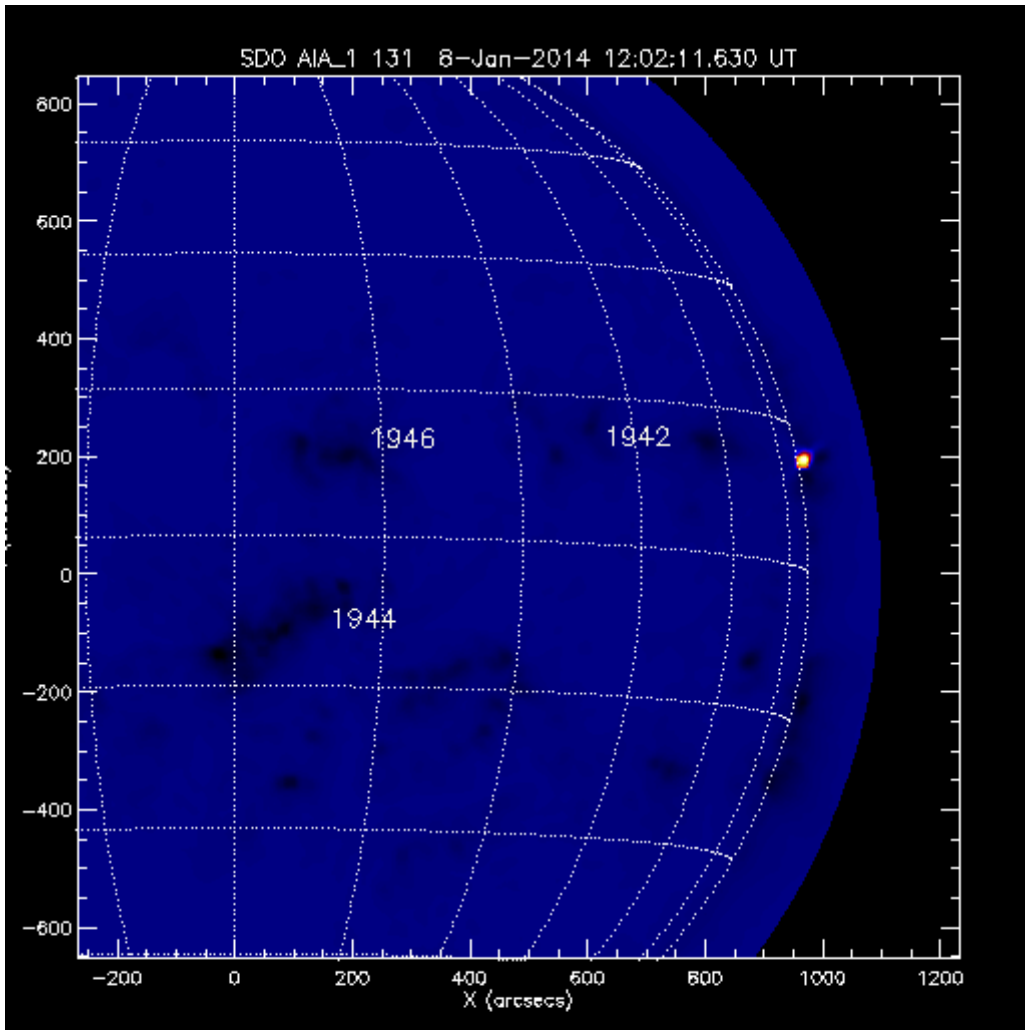


SDO/AIA AIA\_4\_304\_4-jan-2014\_23:04:07.130 UT

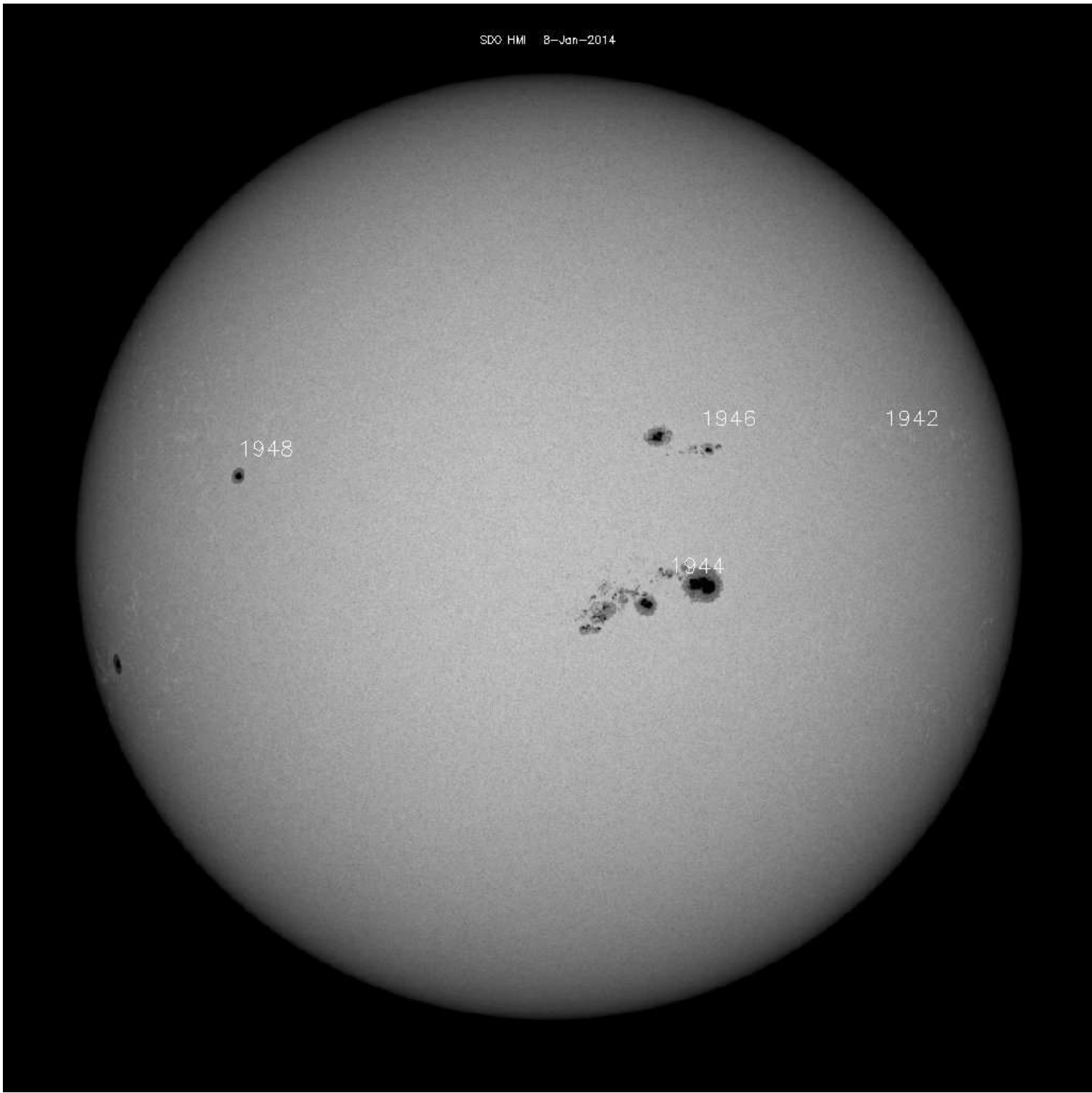


# Solarer Flare am 8.1.2014 (Zeit: 13.05 Uhr UTC + 1) (NOAA-Skala: C)









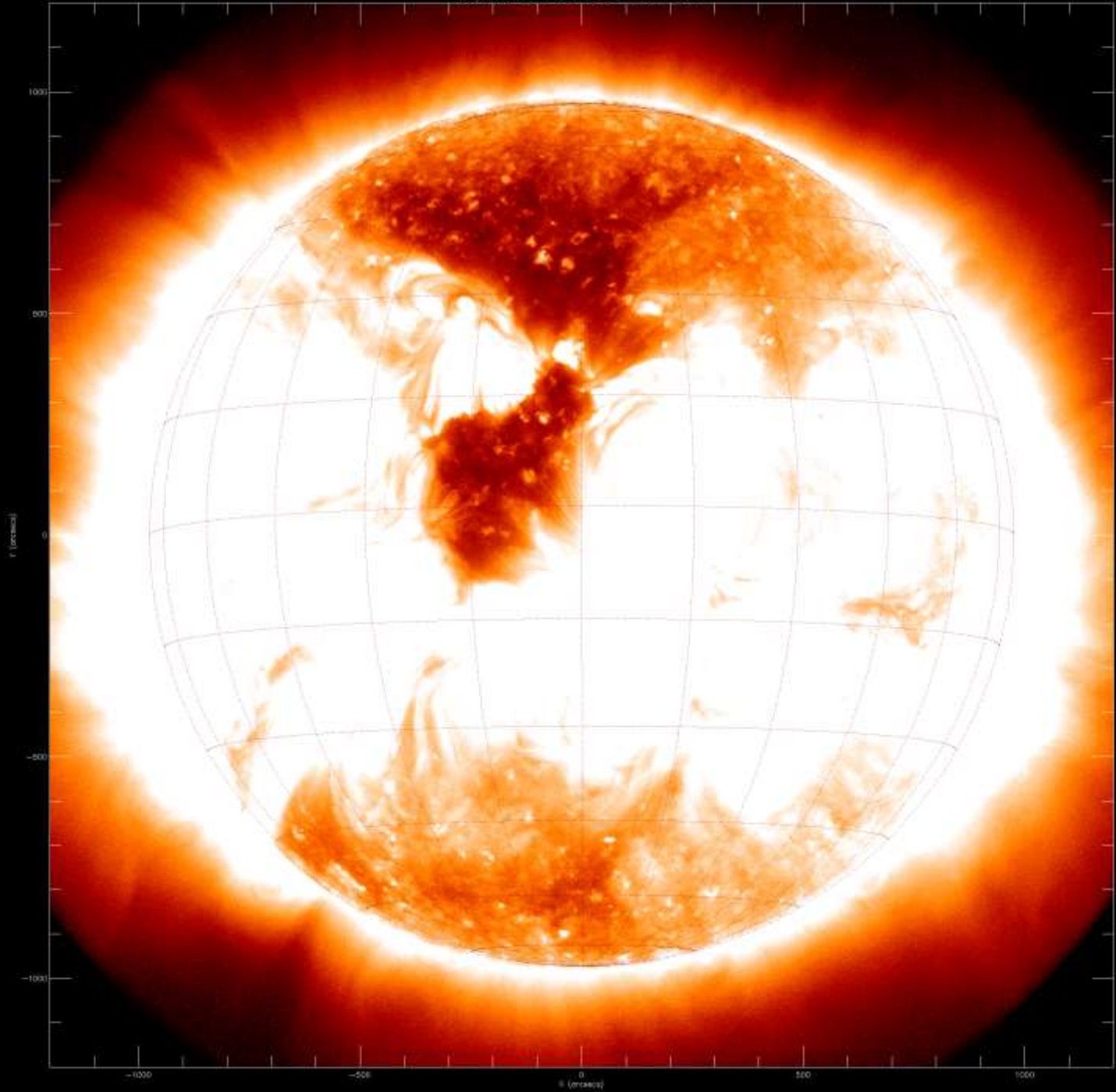
1948

1946

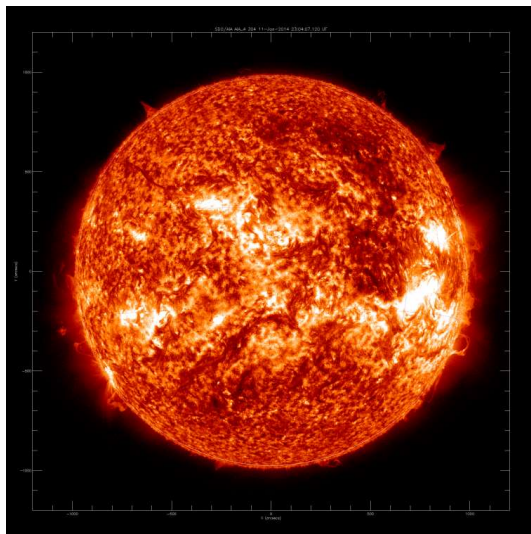
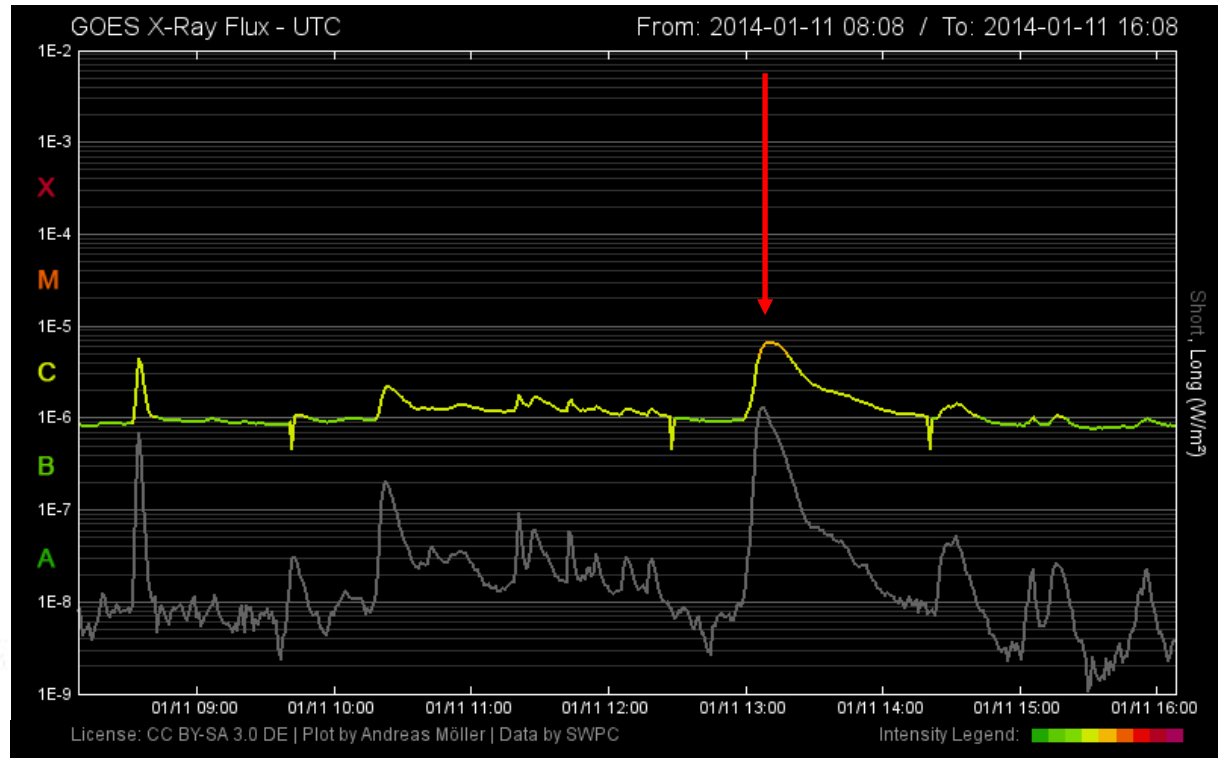
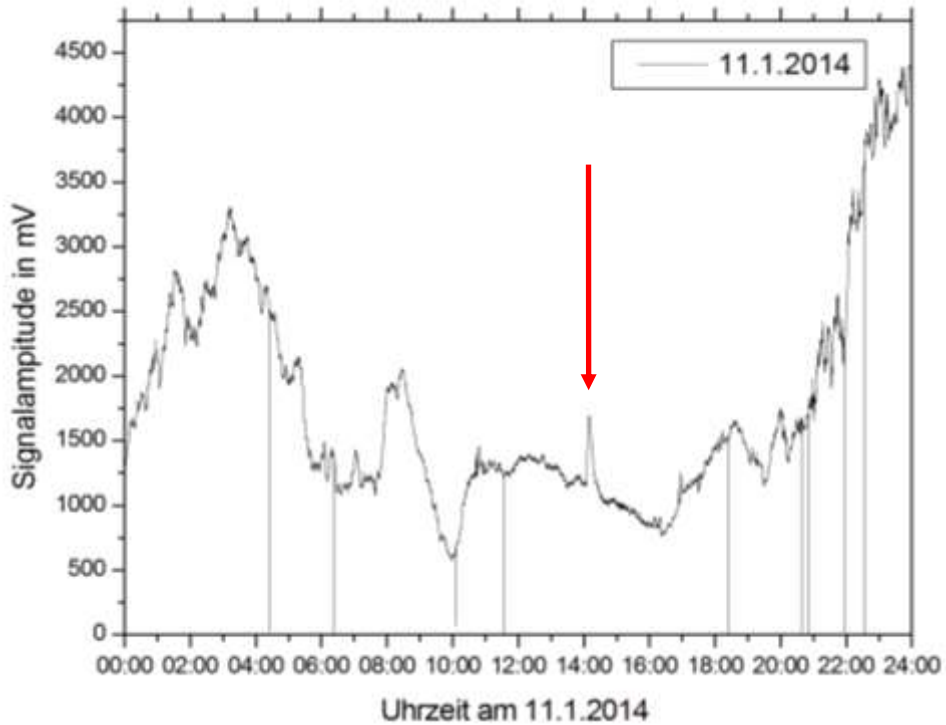
1942

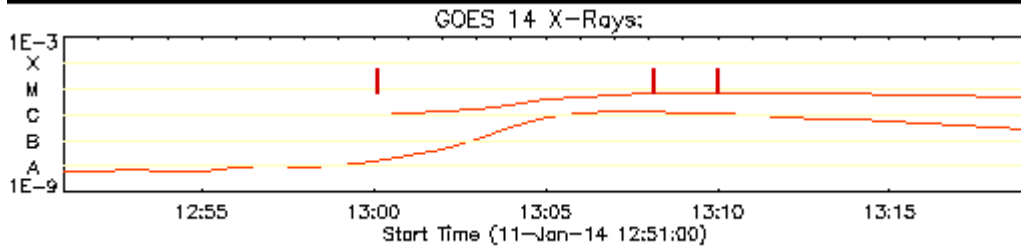
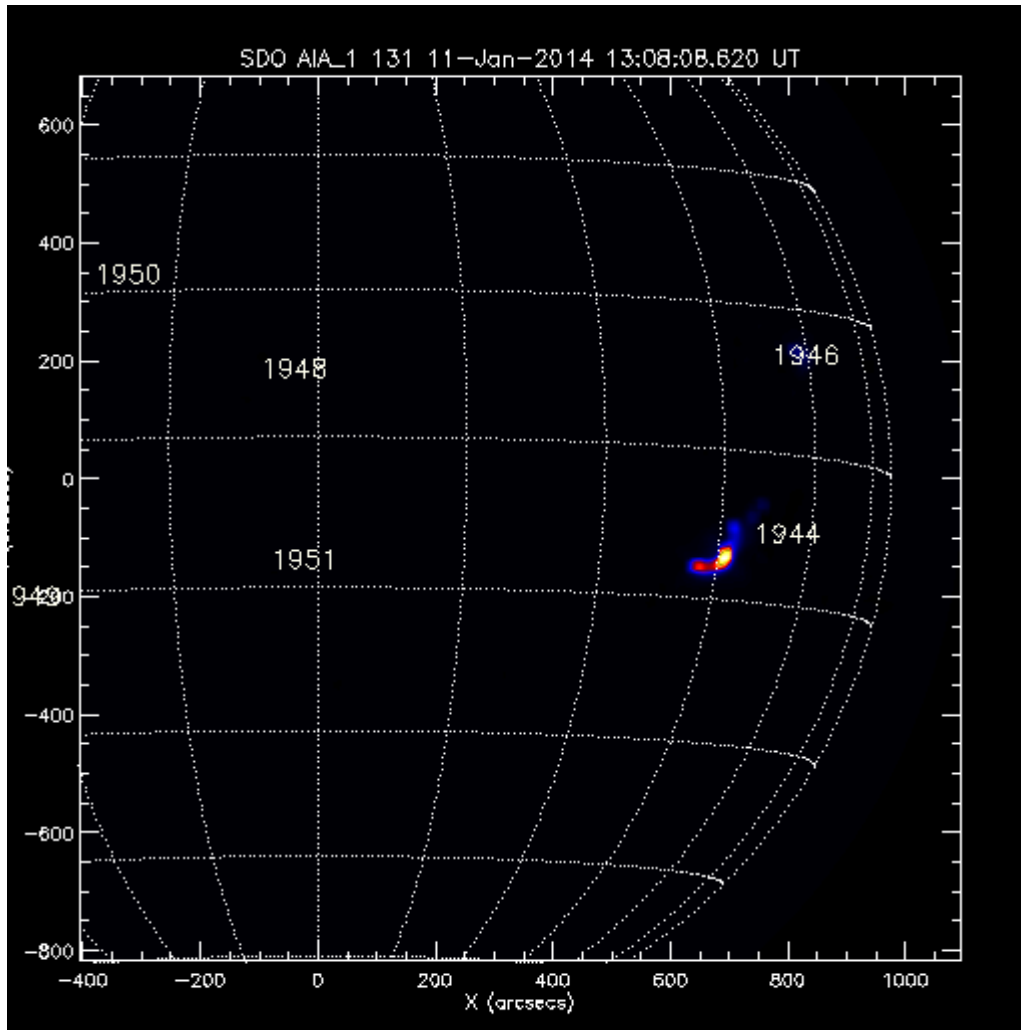
1944

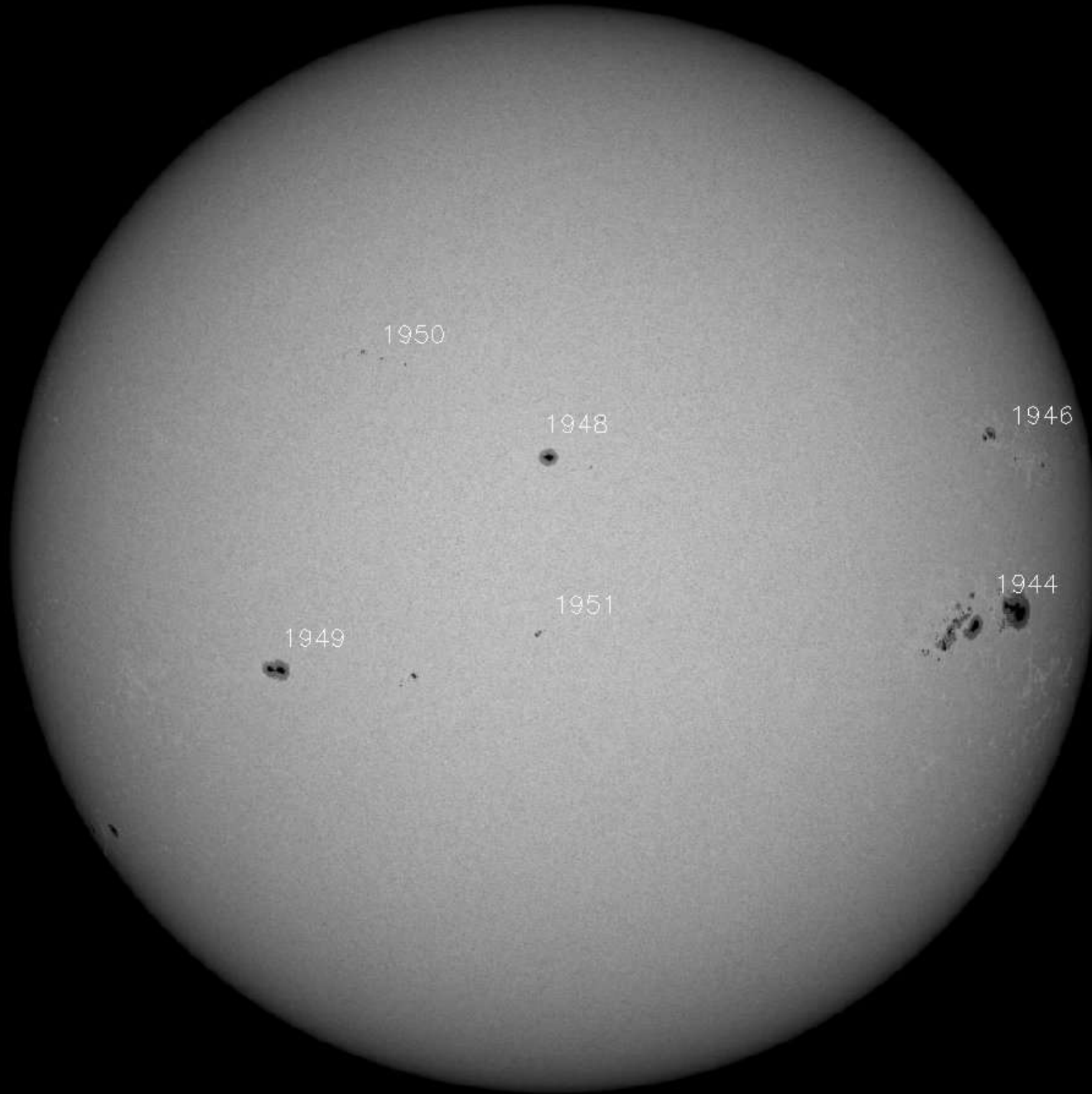
SDO/AIA AIA\_4 304 8-Jan-2014 22:44:55.140 UT



# Solarer Flare am 11.1.2014 (Zeit: 14.10 Uhr UTC + 1) (NOAA-Skala: C)

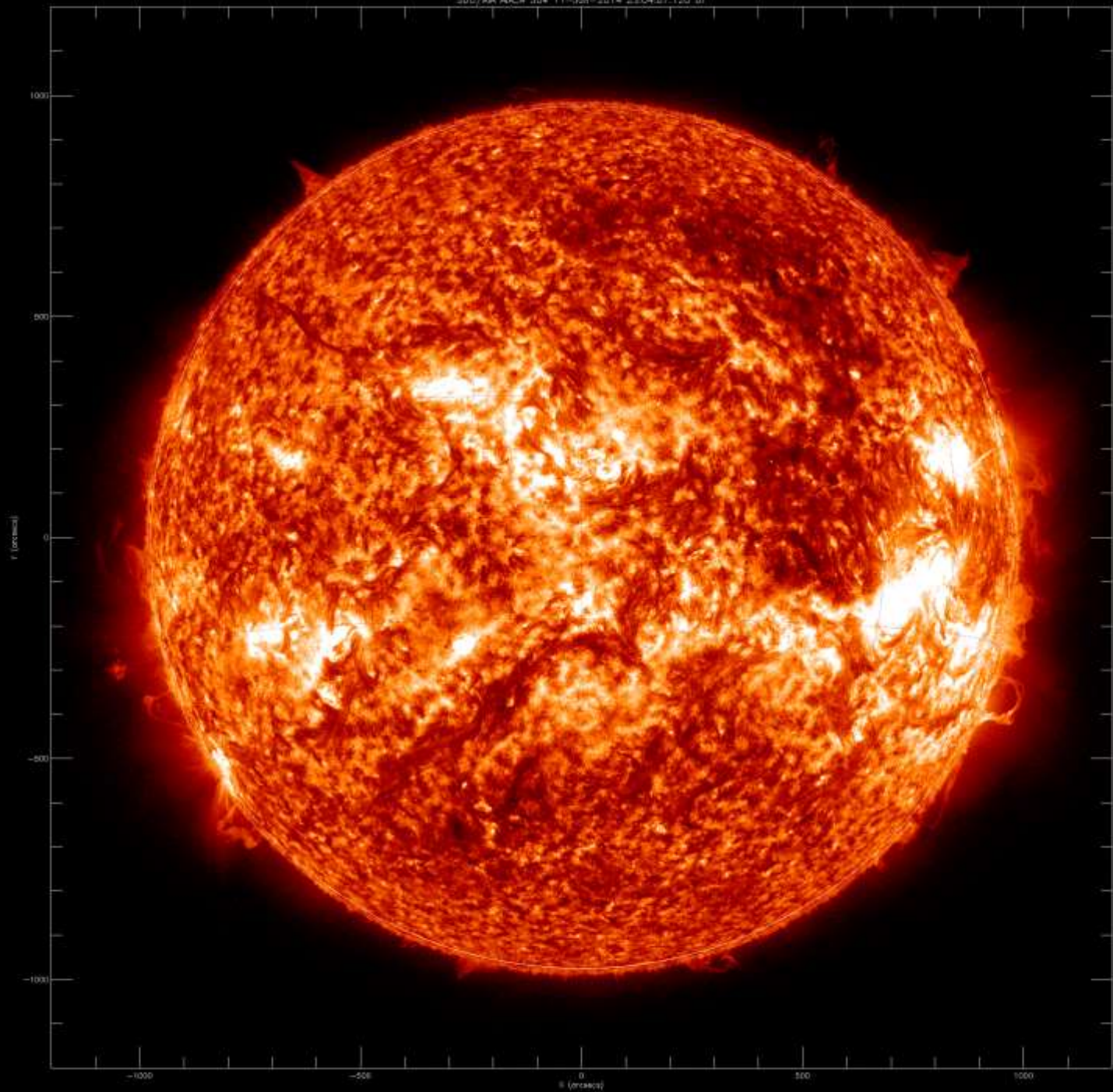






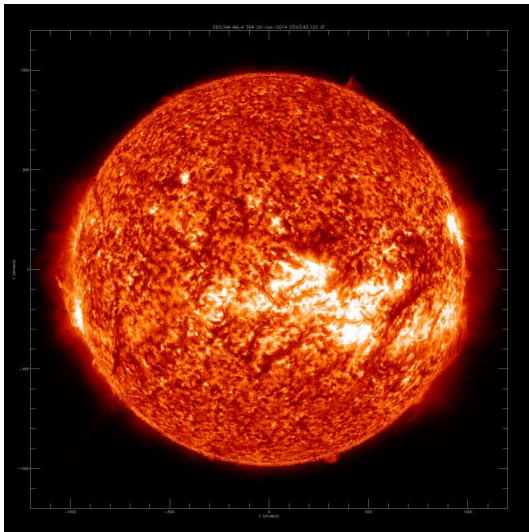
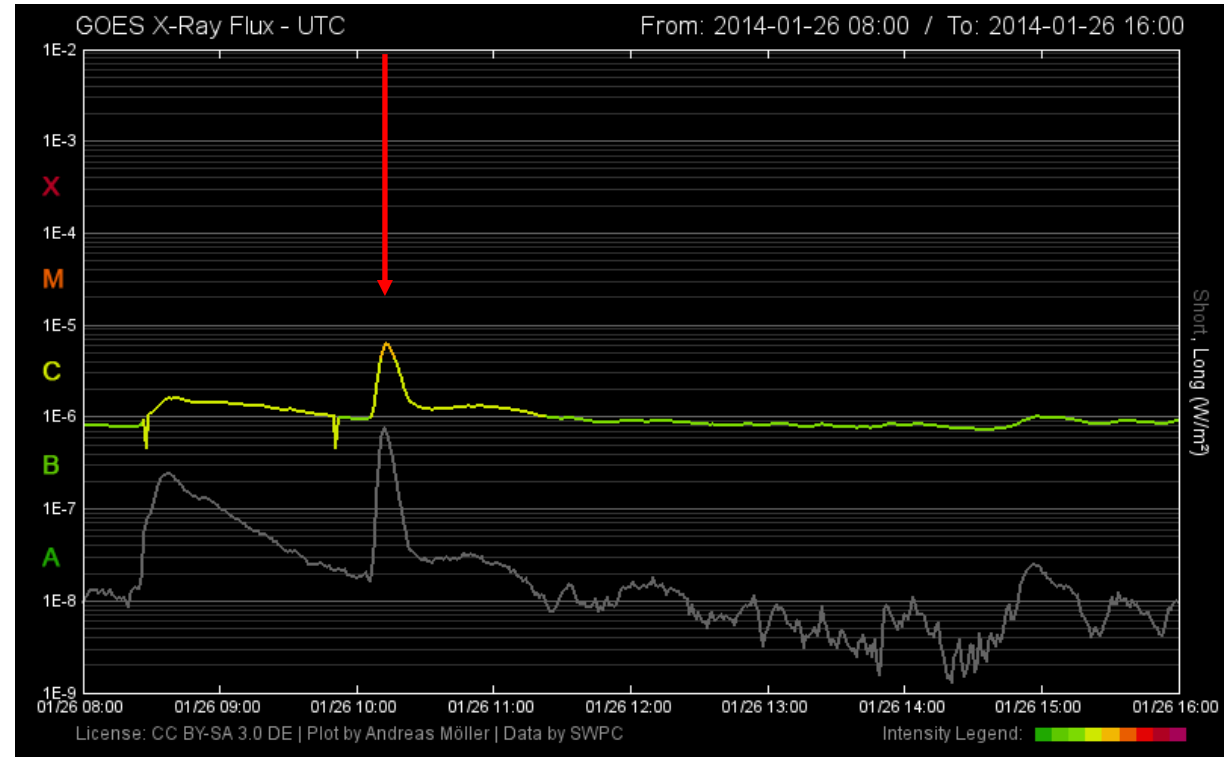
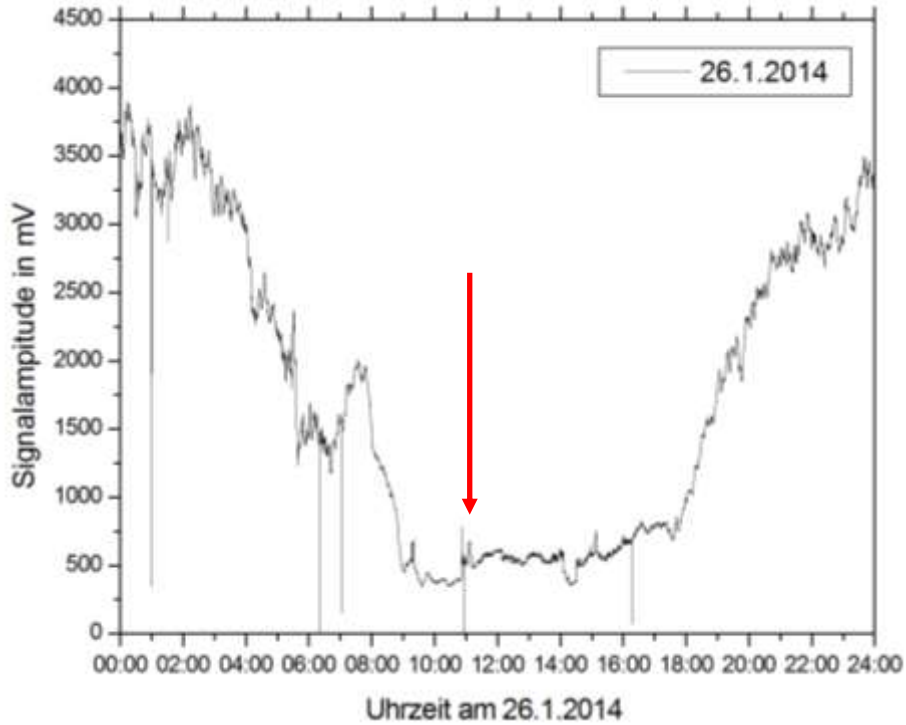


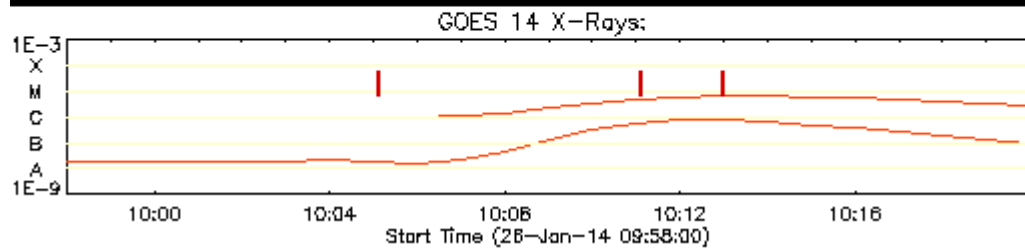
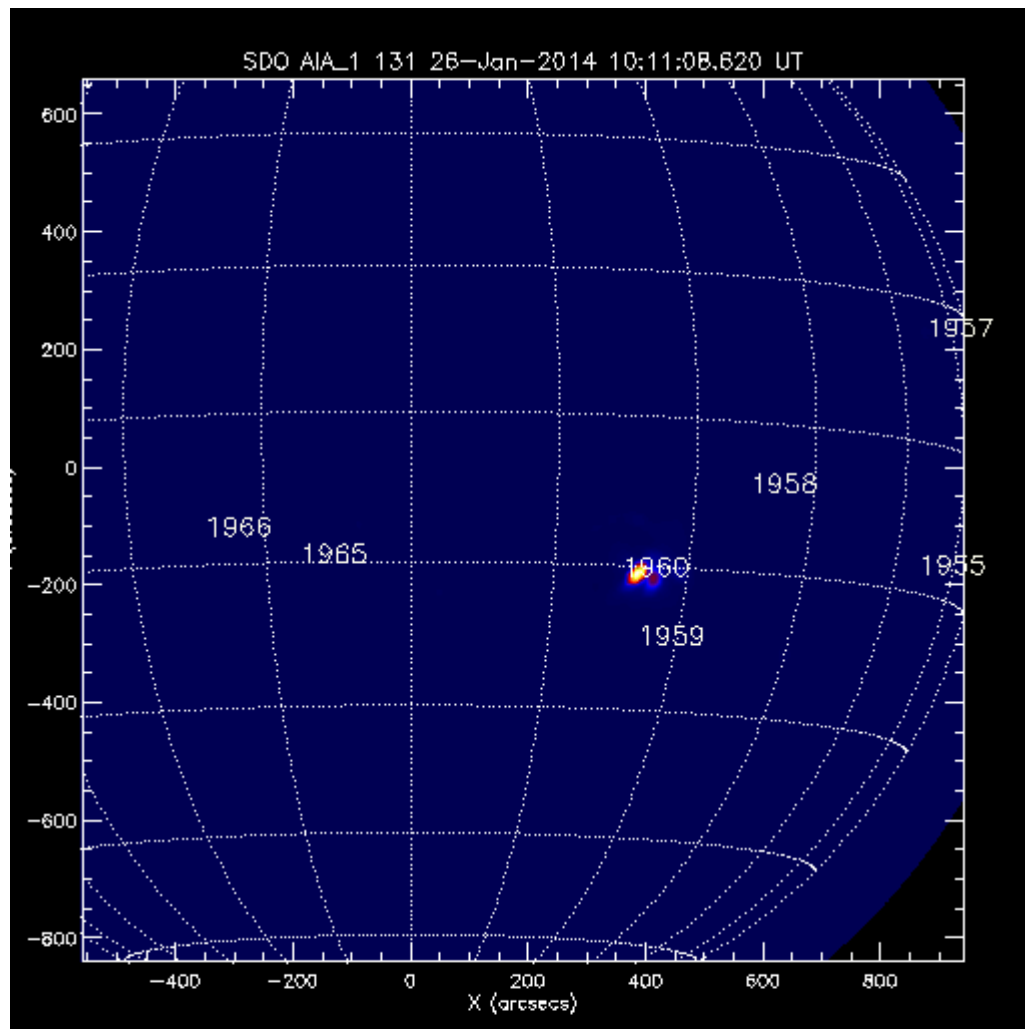
SDO/AIA AIA\_4 304 11-Jan-2014 23:04:07.120 UT

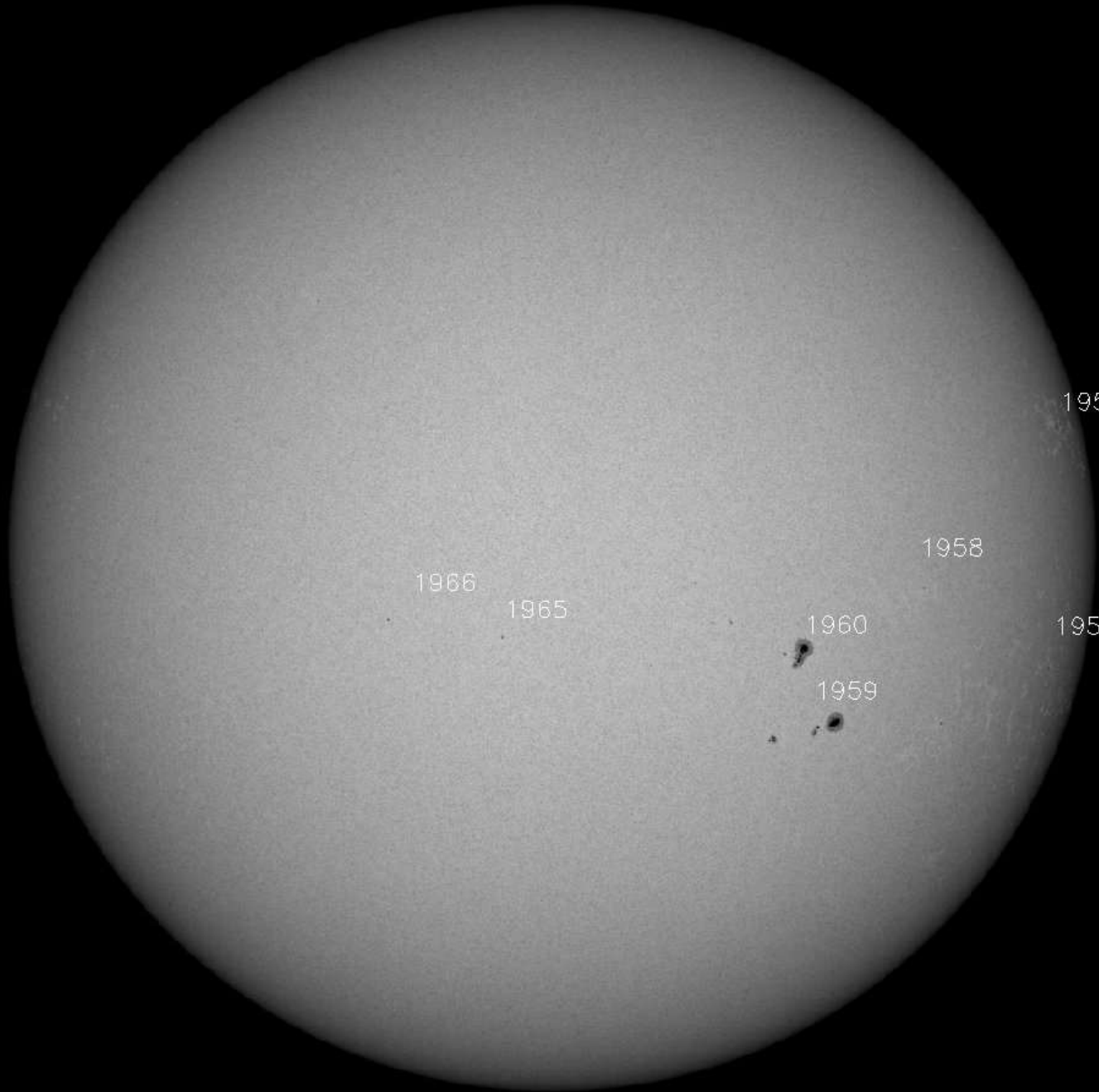




# Solarer Flare am 26.1.2014 (Zeit: 11.17 Uhr UTC + 1) (NOAA-Skala: C)







1957

1958

1955

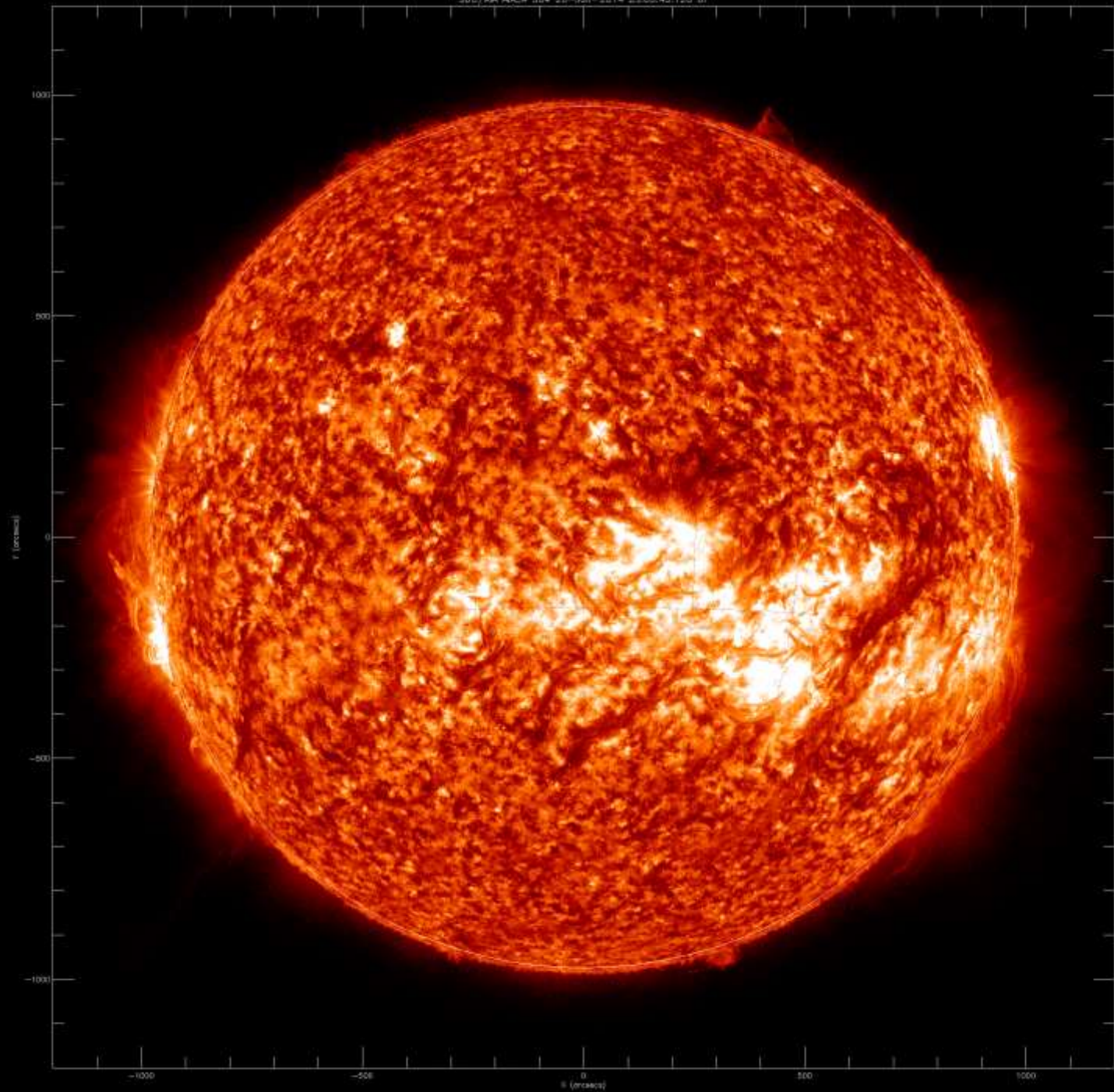
1960

1959

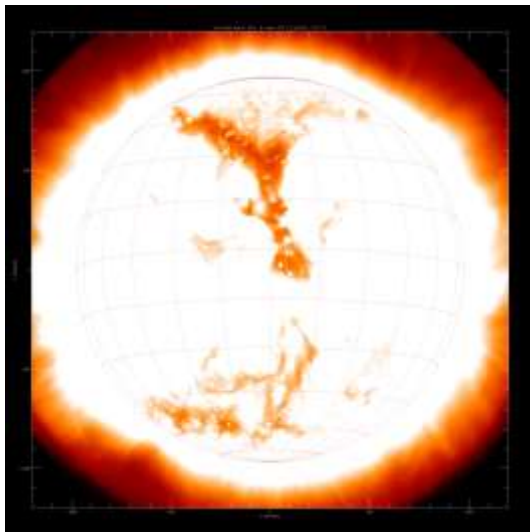
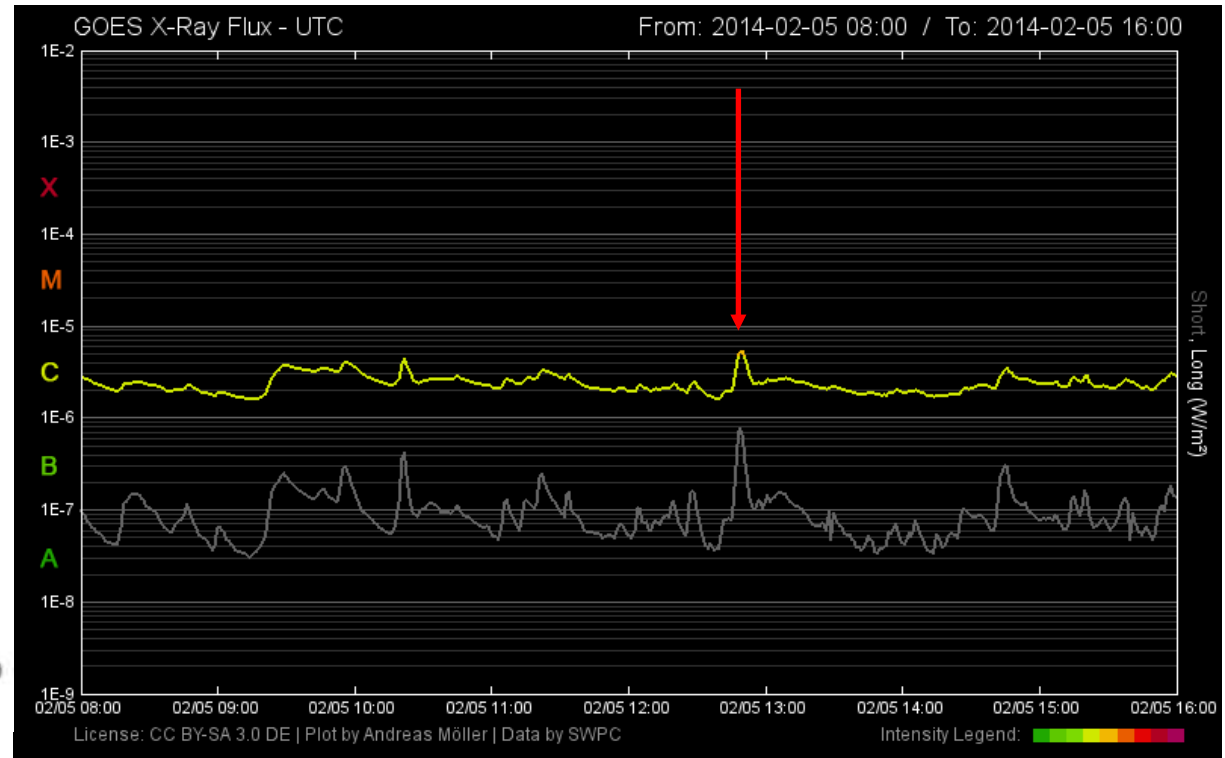
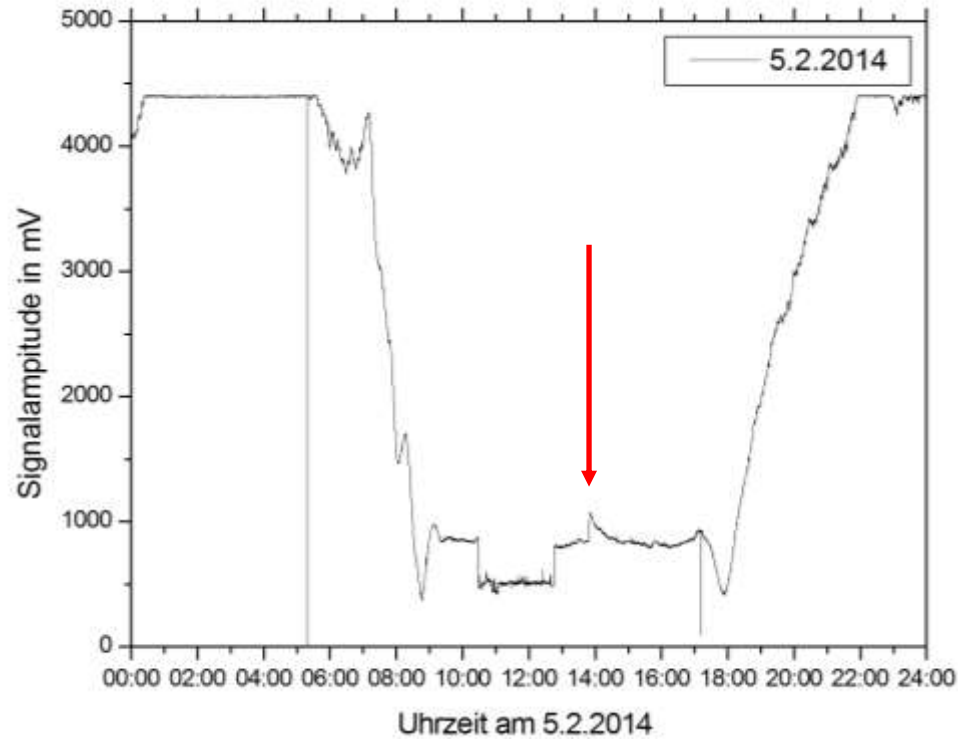
1966

1965

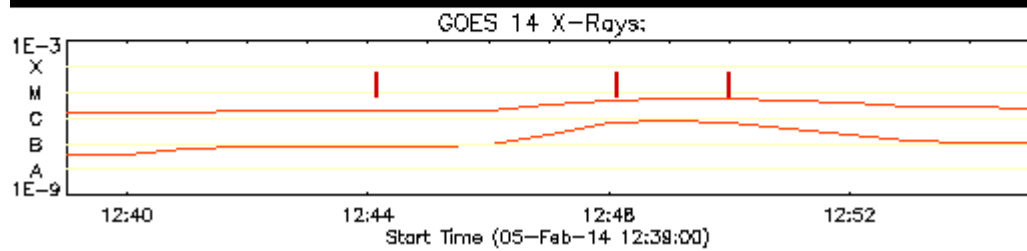
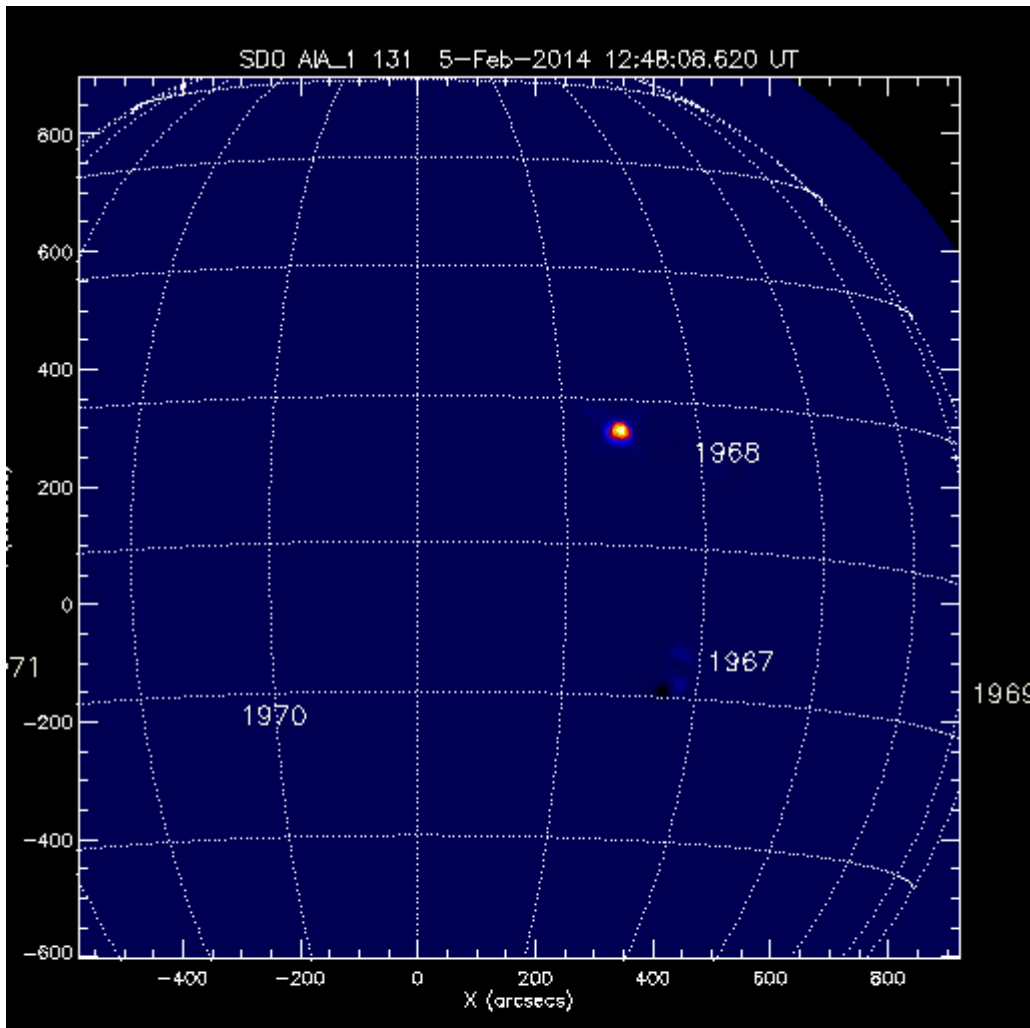
SDO/AIA AA\_4 304 28-Jan-2014 23:03:43.120 UT

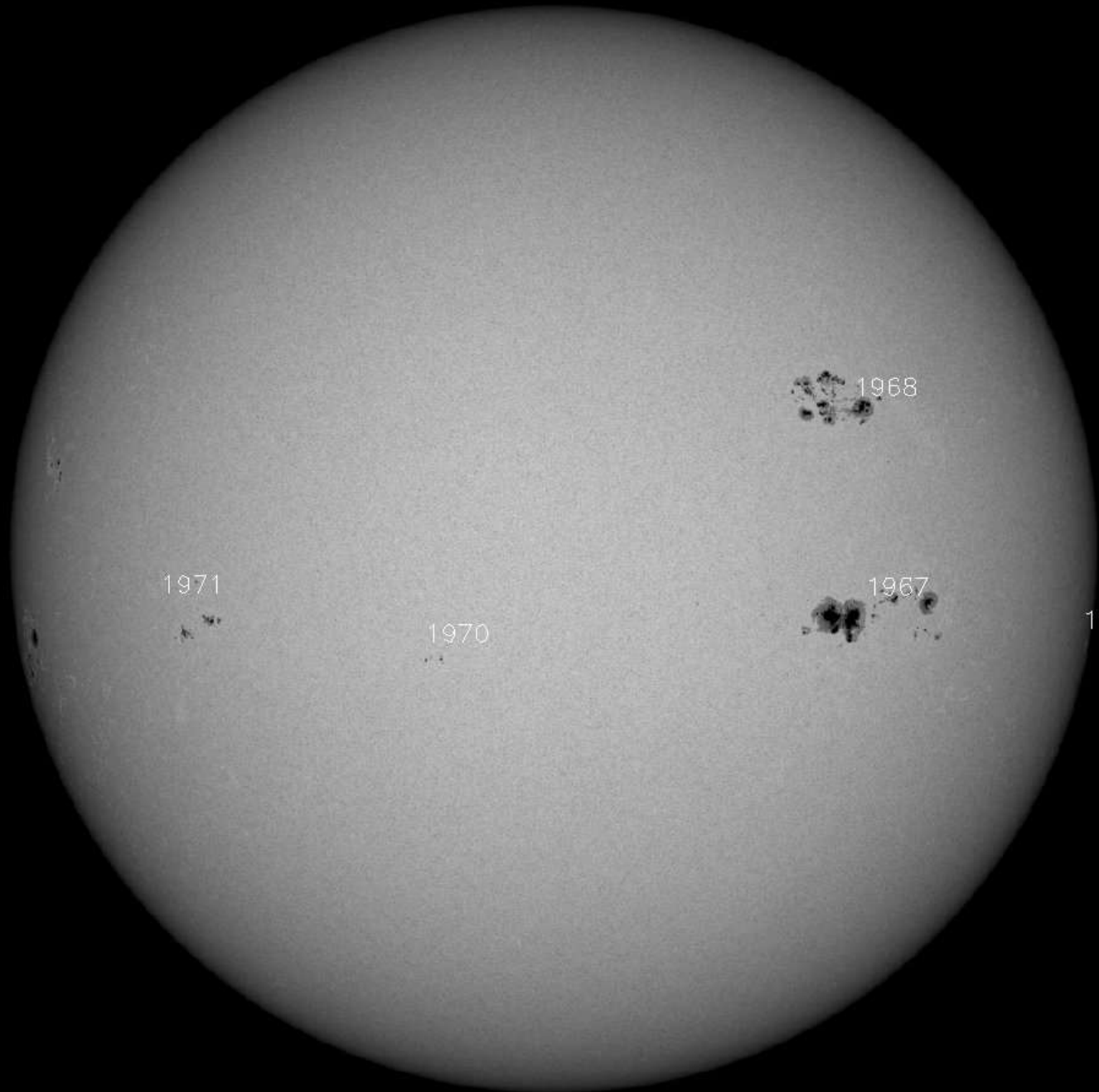


# Solarer Flare am 5.2.2014 (Zeit: 13.50 Uhr UTC + 1) (NOAA-Skala: C)









1968

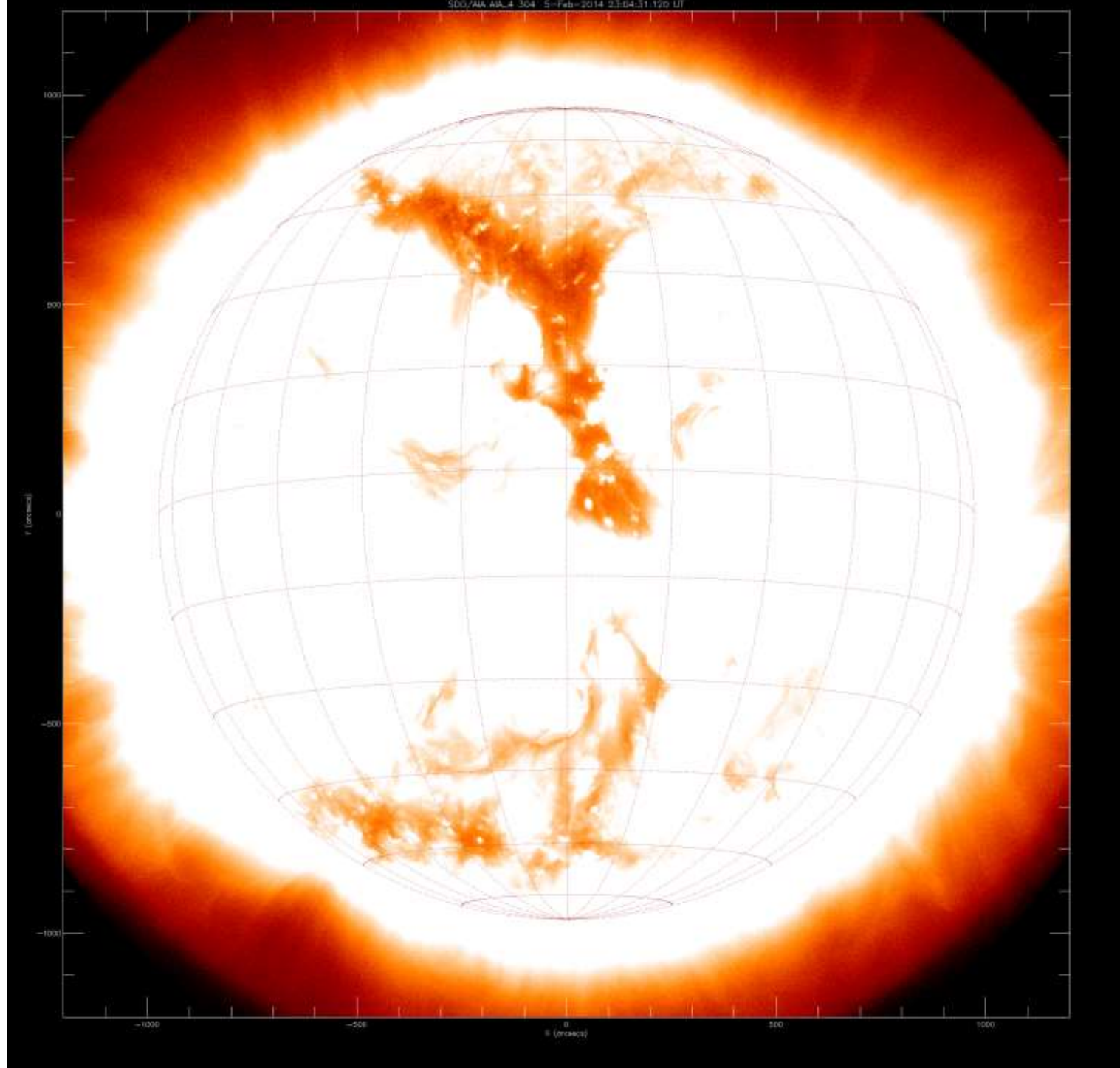
1967

1969

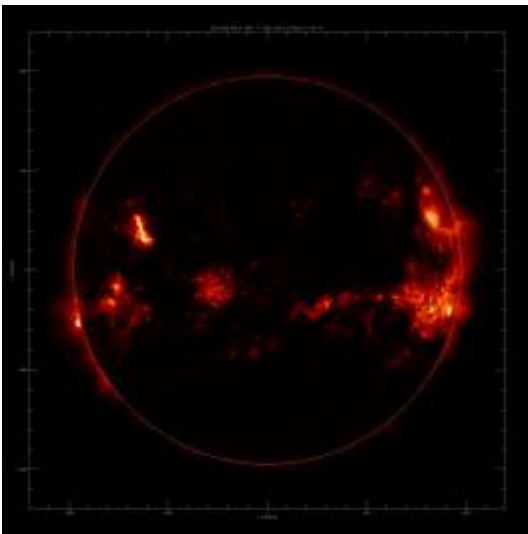
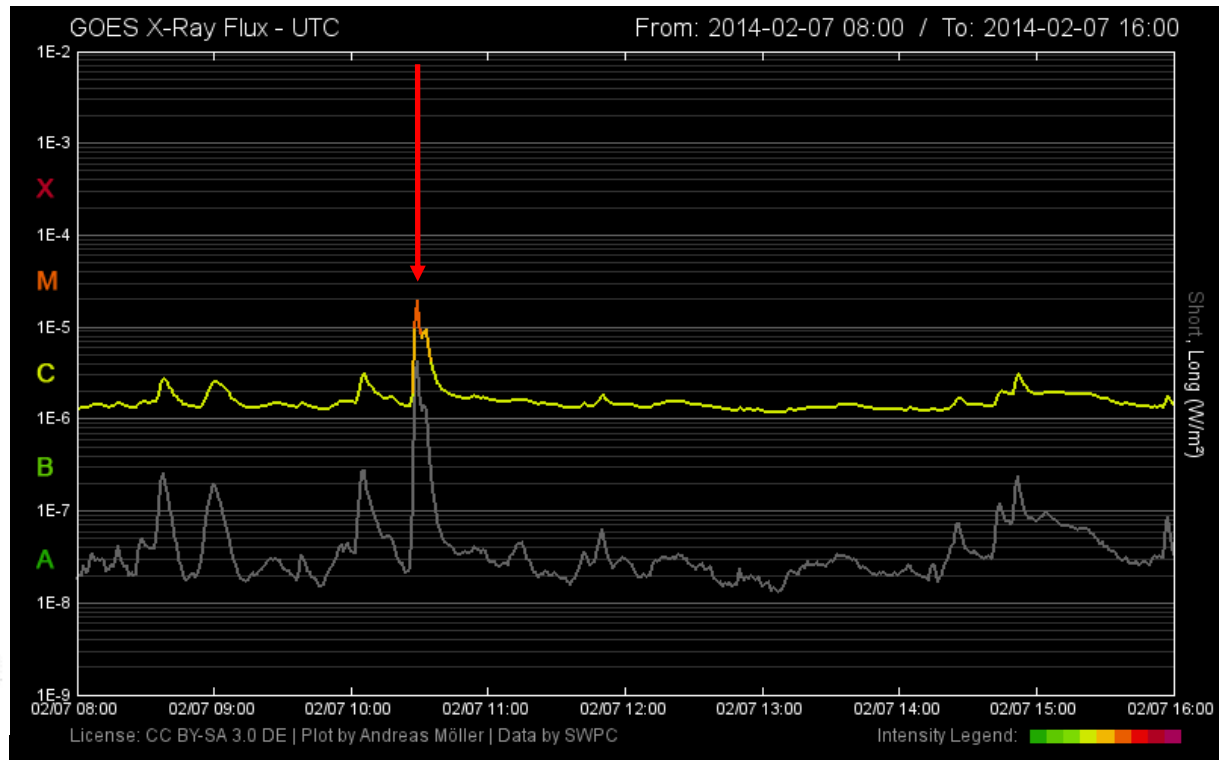
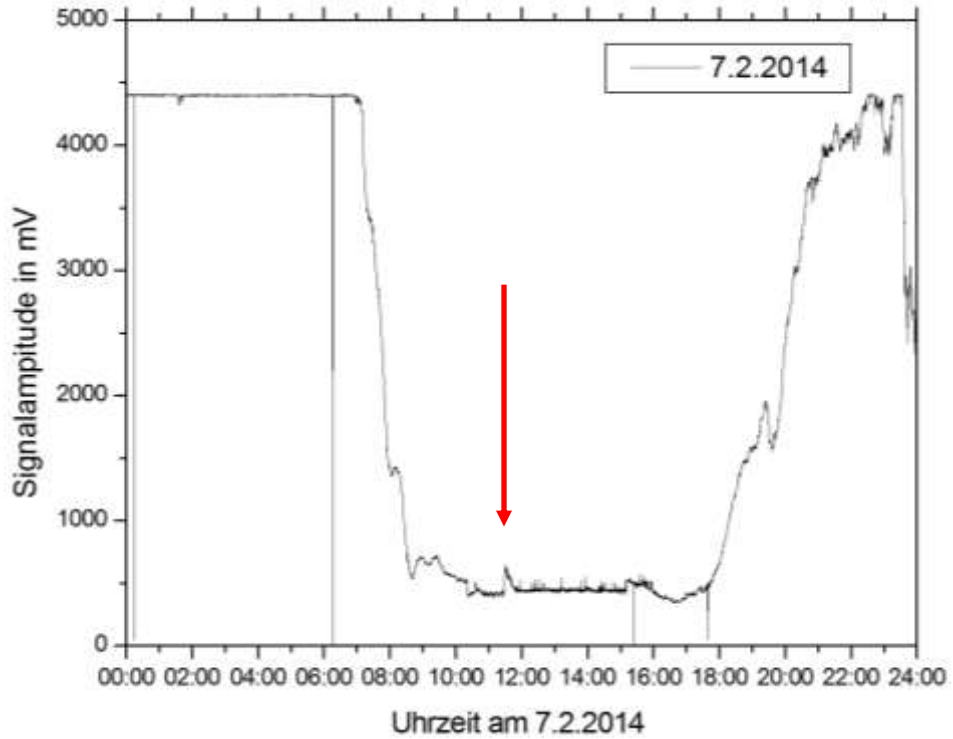
1970

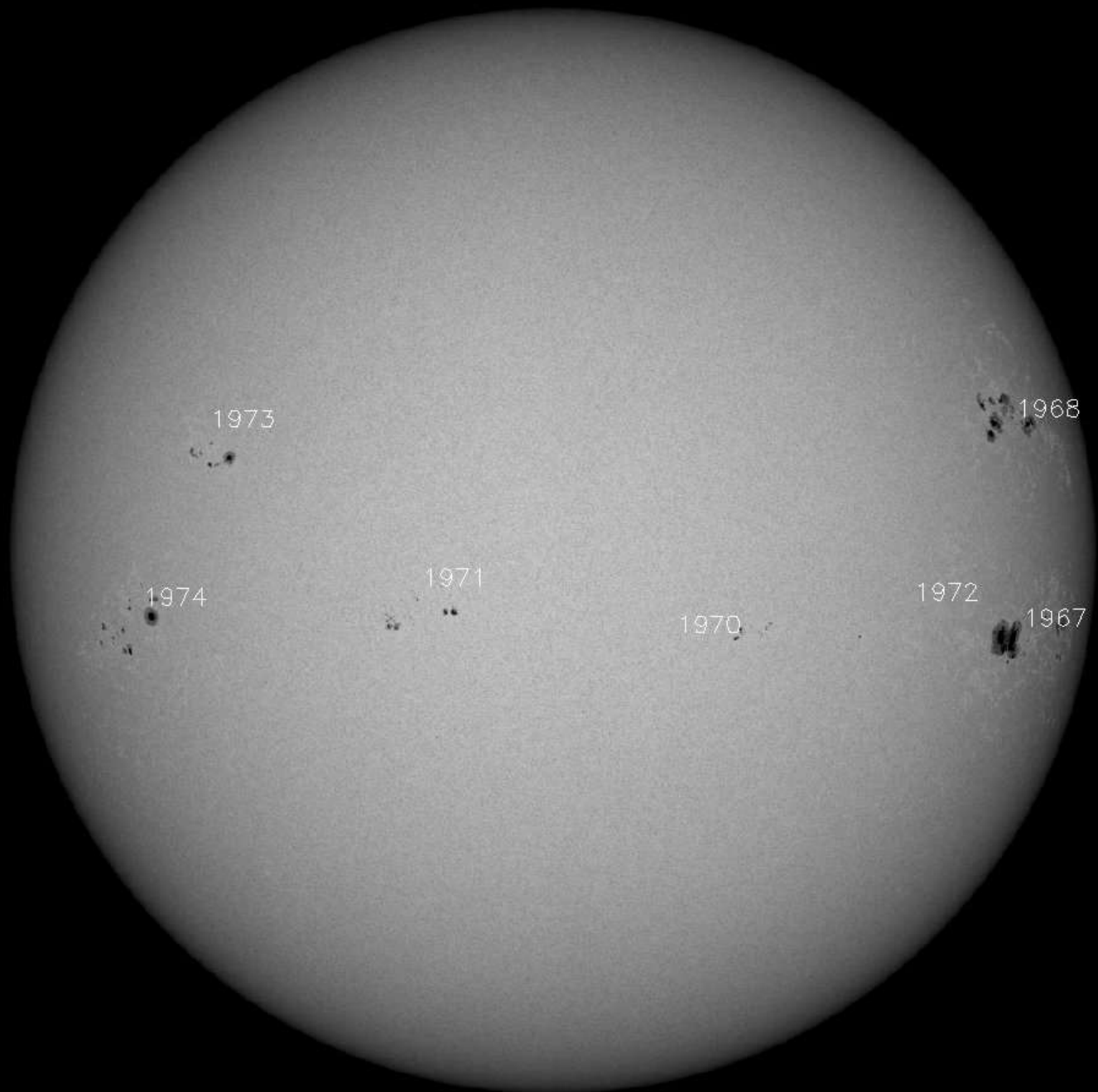
1971

SDO/AIA AIA\_4 304 5-Feb-2014 23:04:31.120 UT



# Solarer Flare am 7.2.2014 (Zeit: 11.30 Uhr UTC + 1) (NOAA-Skala: R2)





1973

1968

1974

1971

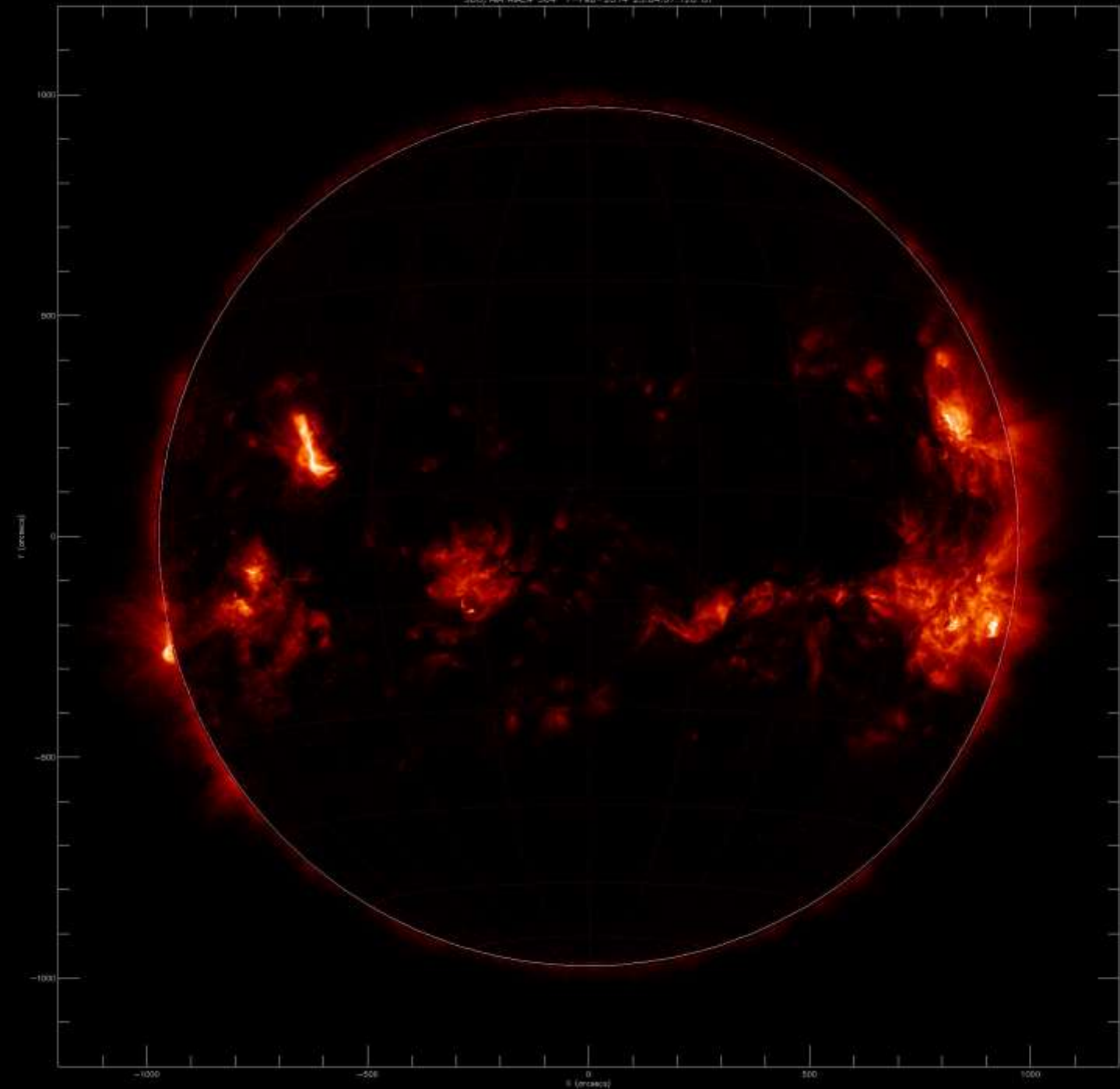
1970

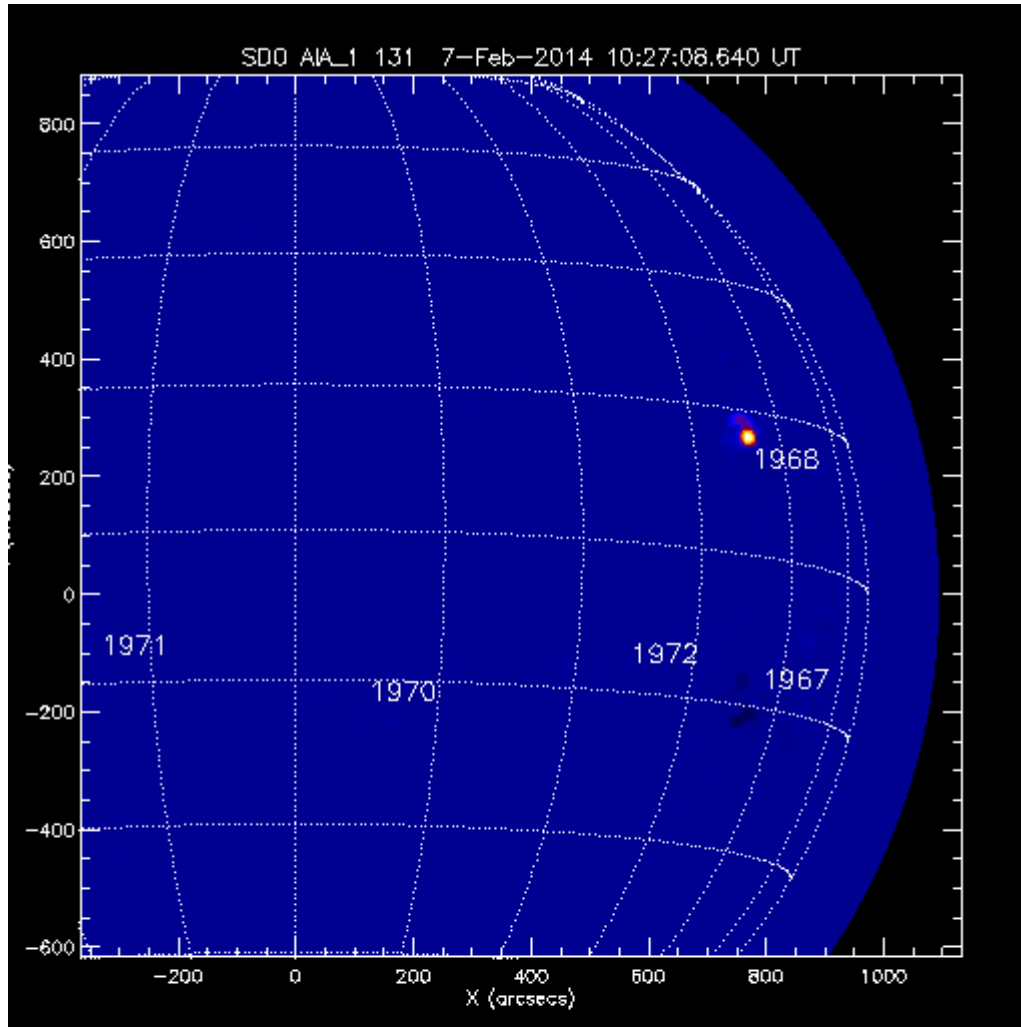
1972

1967

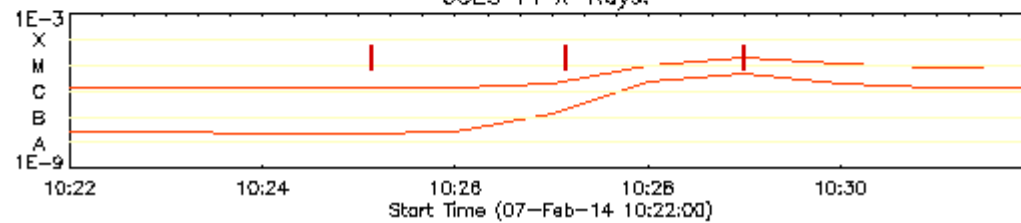


SDO/AIA AIA\_4 304 7-Feb-2014 23:04:07.120 UT

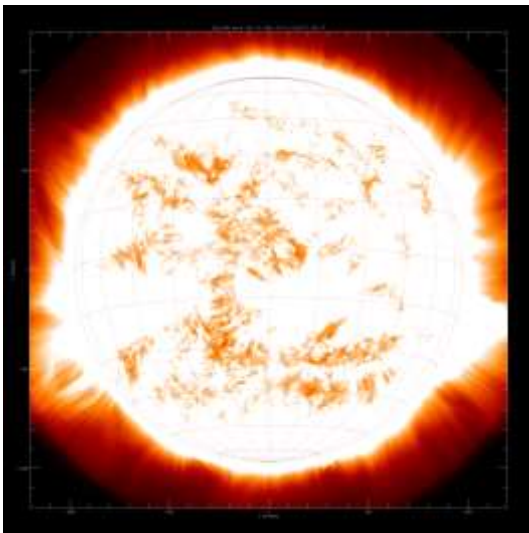
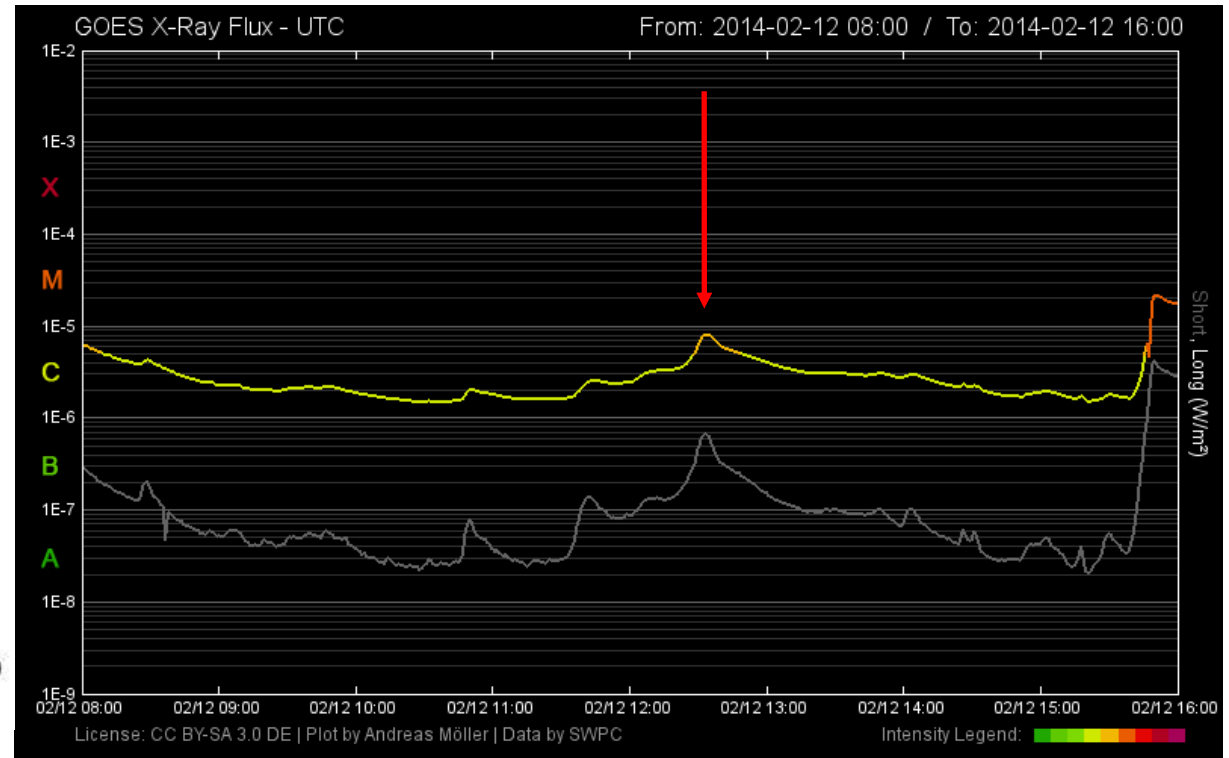
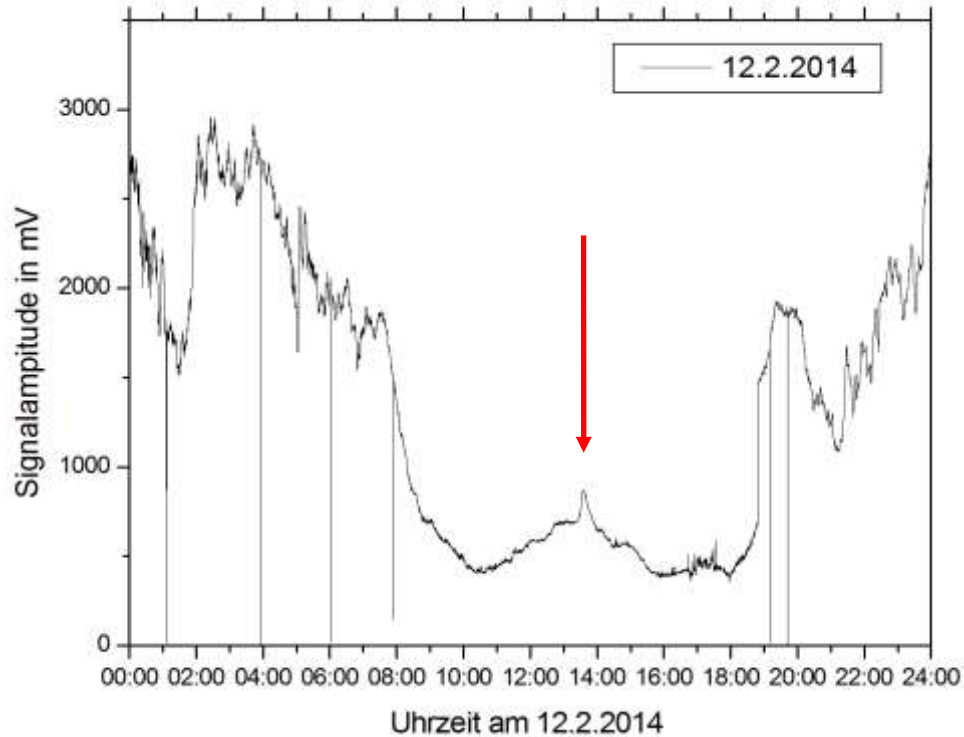




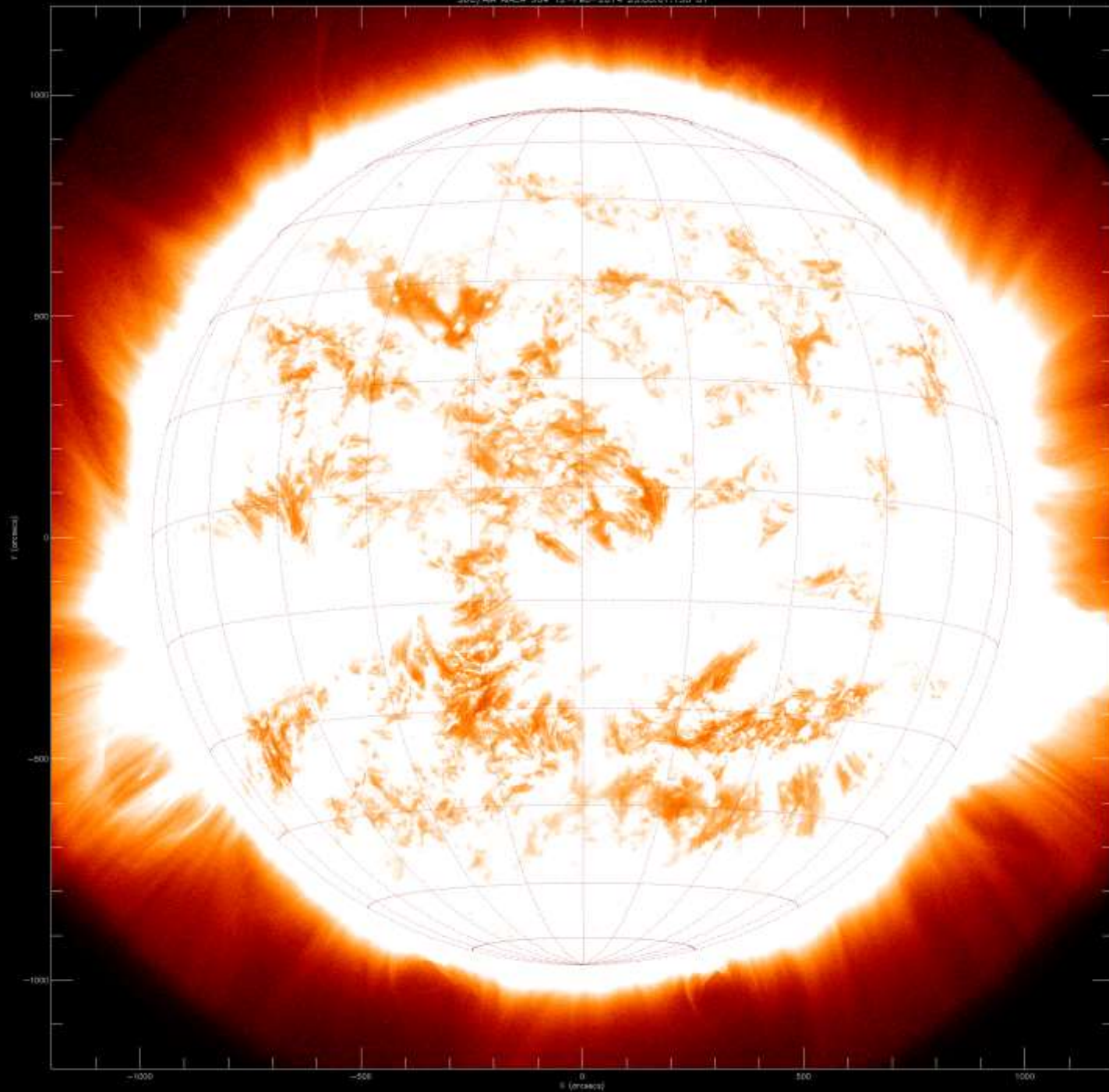
GOES 14 X-Rays:

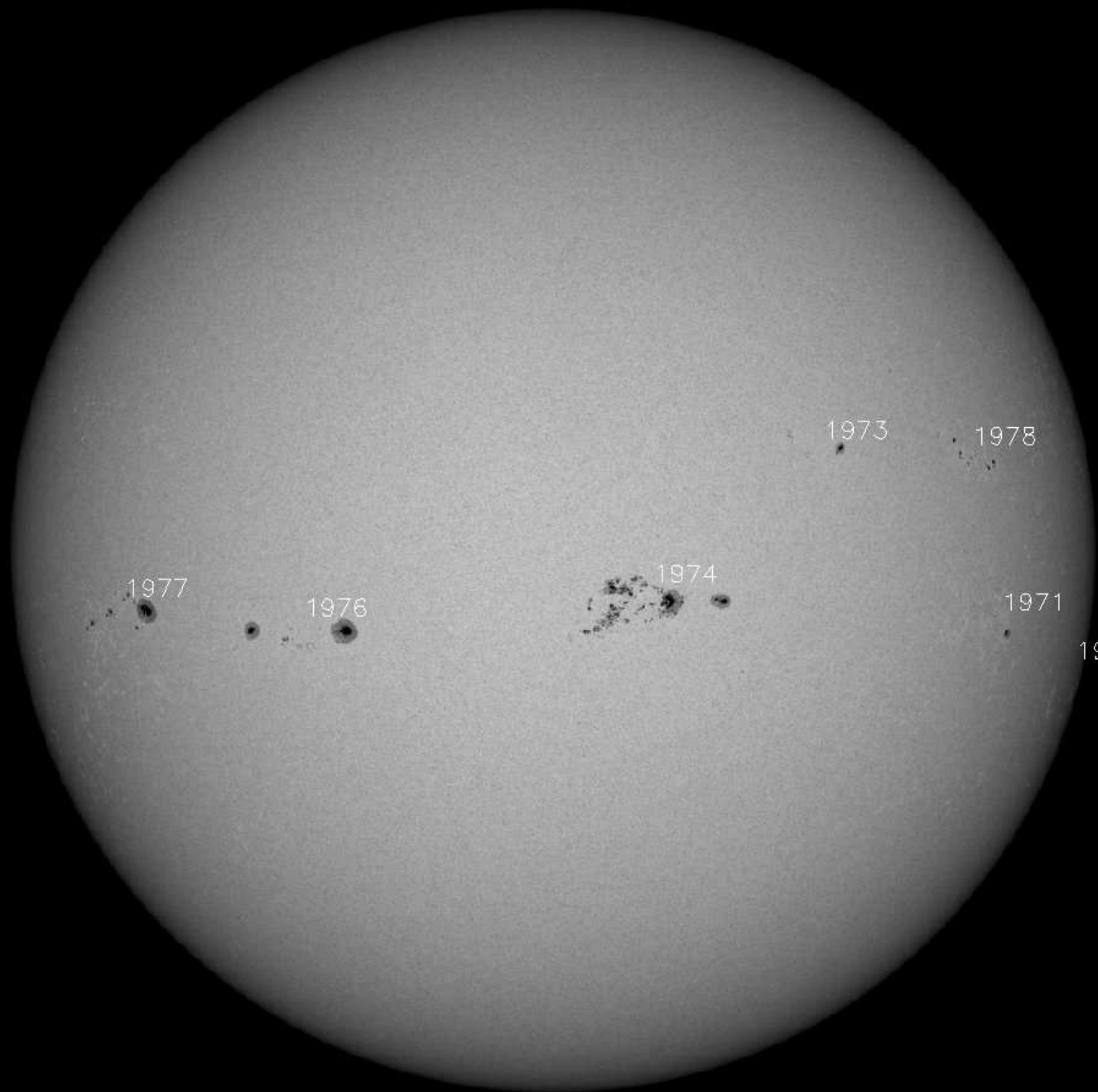


# Solarer Flare am 12.2.2014 (Zeit: 13.30 Uhr UTC + 1) (NOAA-Skala: C)



SDO/AIA AIA\_4 304 12-Feb-2014 23:03:07.130 UT





1977

1976

1974

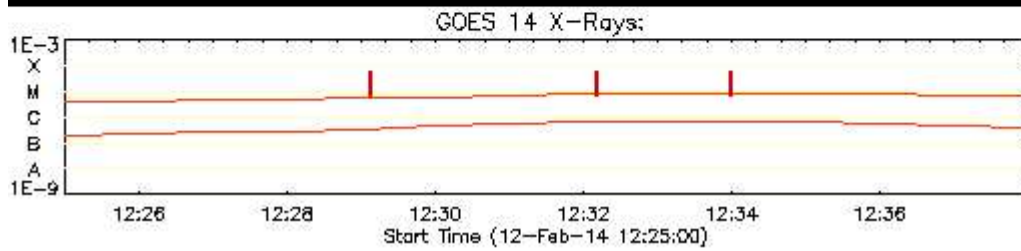
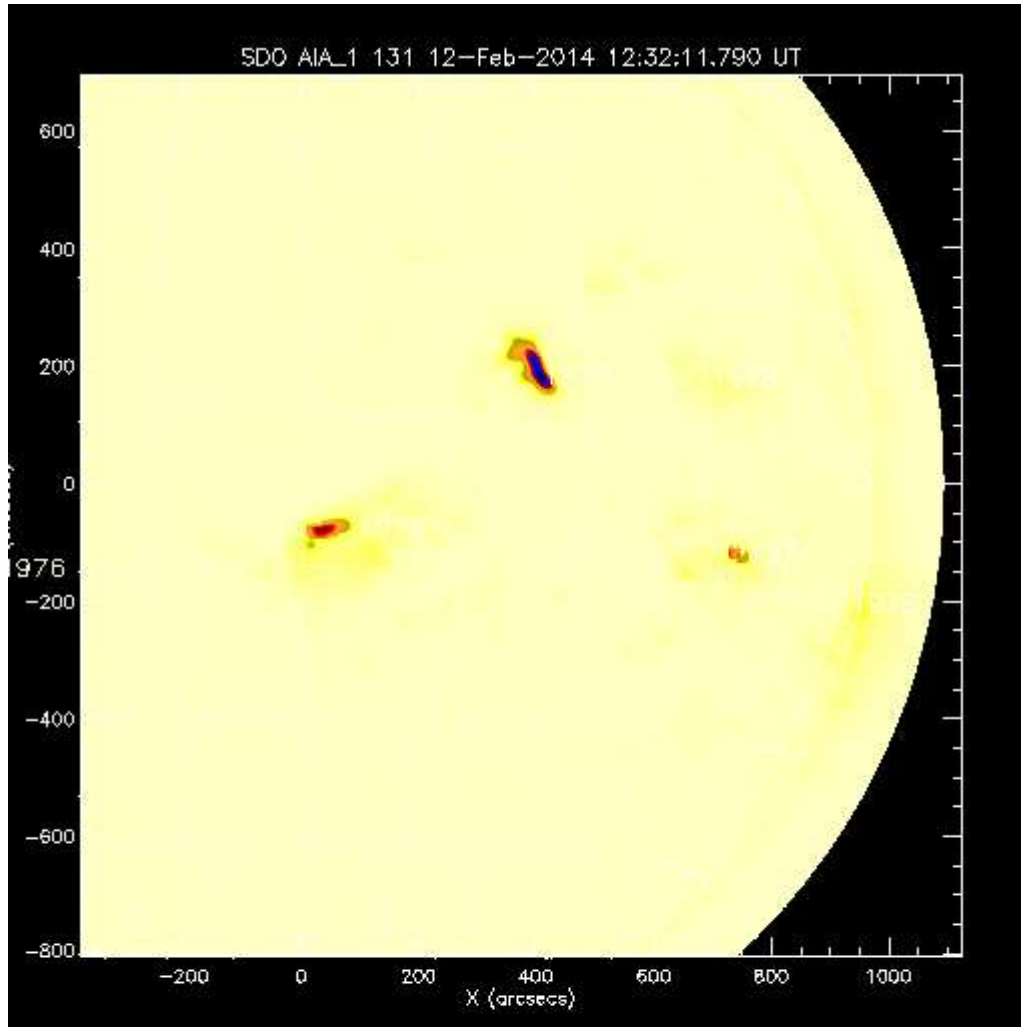
1973

1978

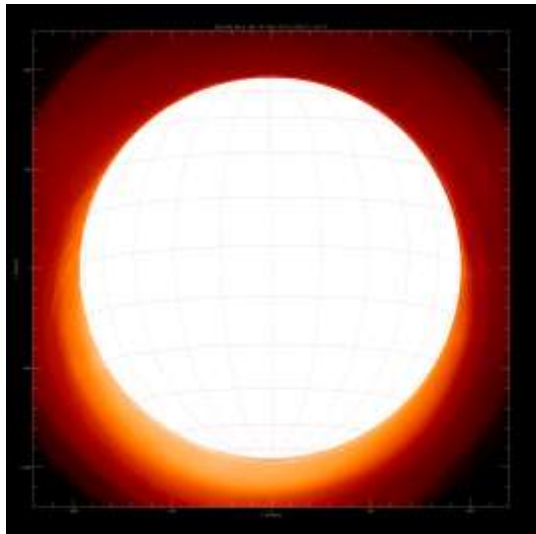
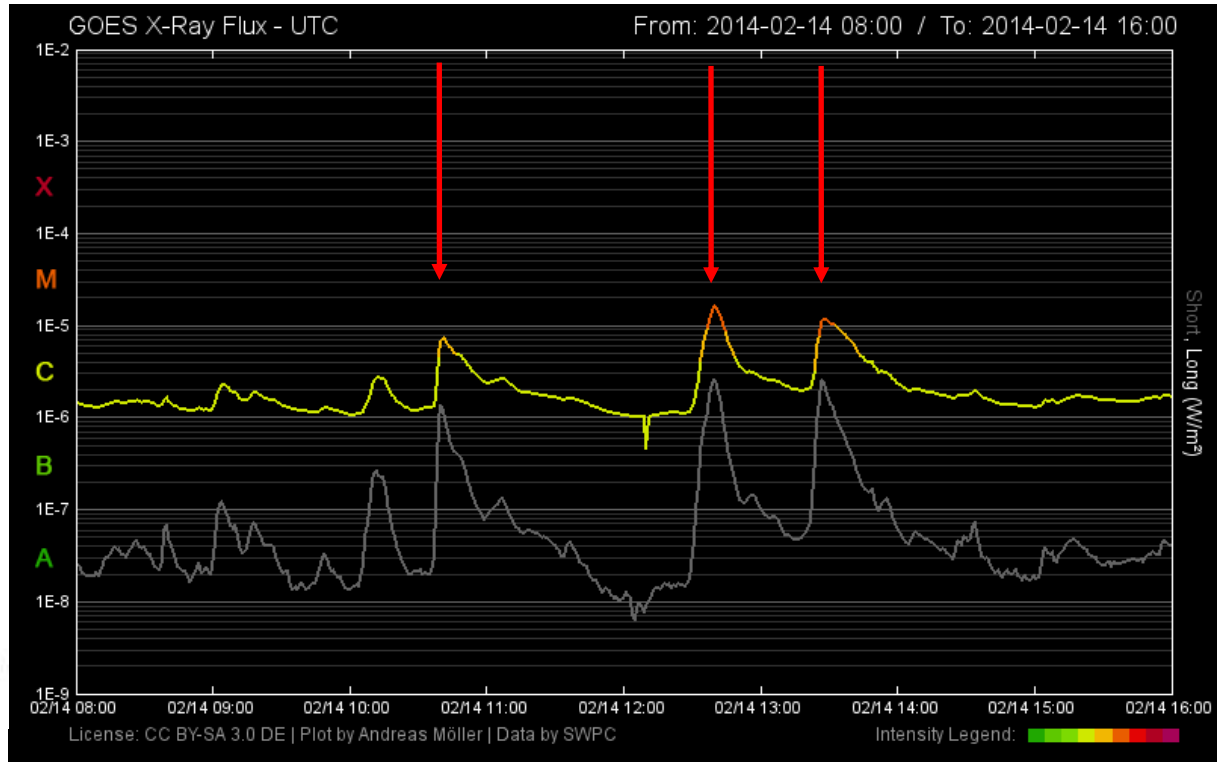
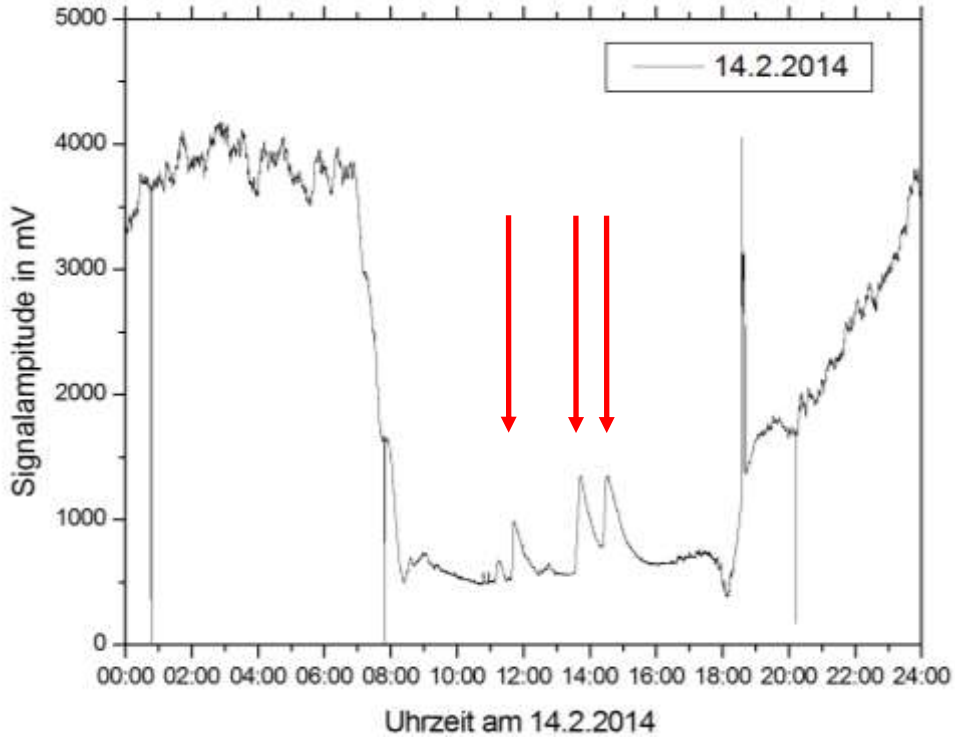
1971

1975

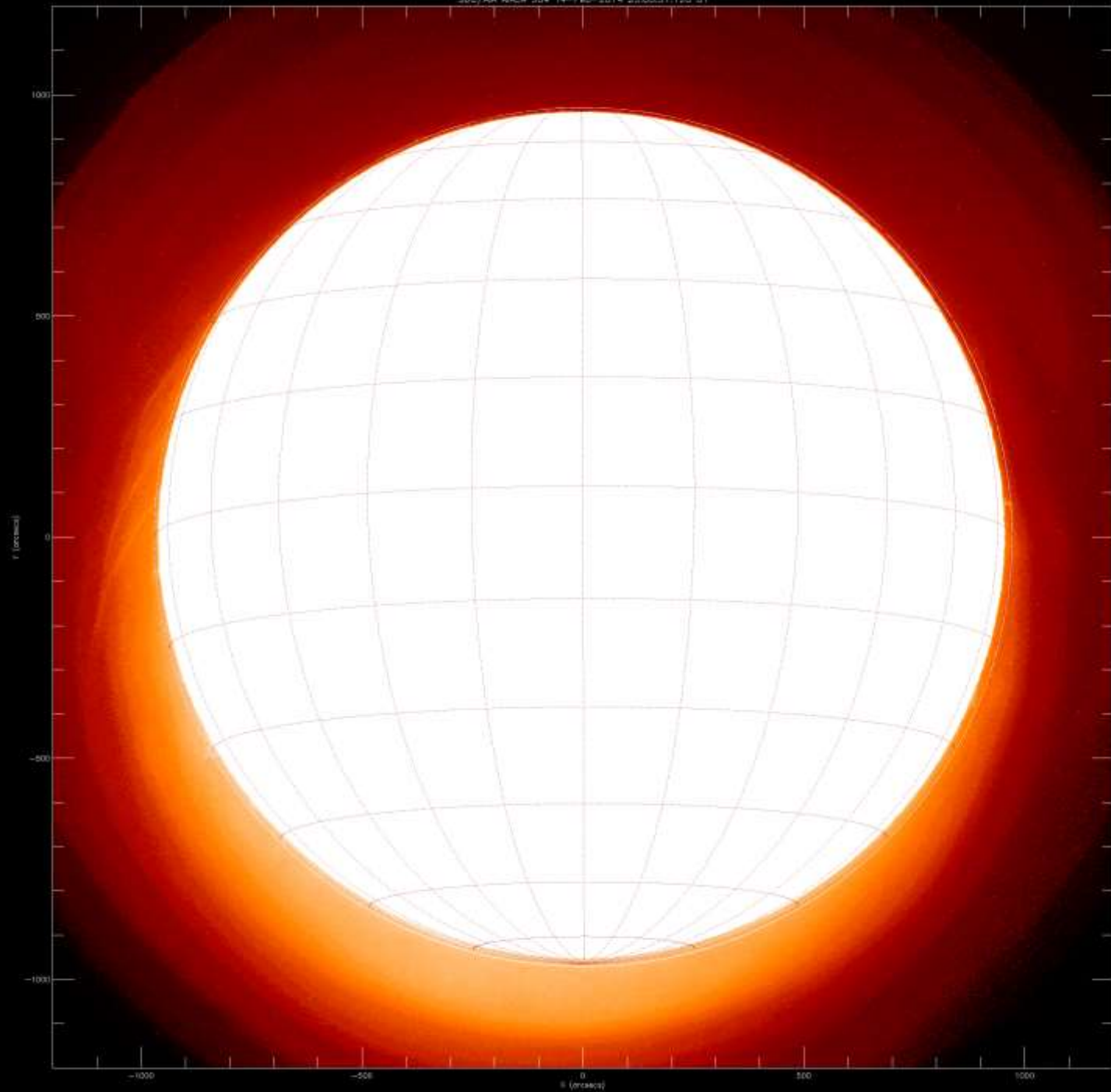


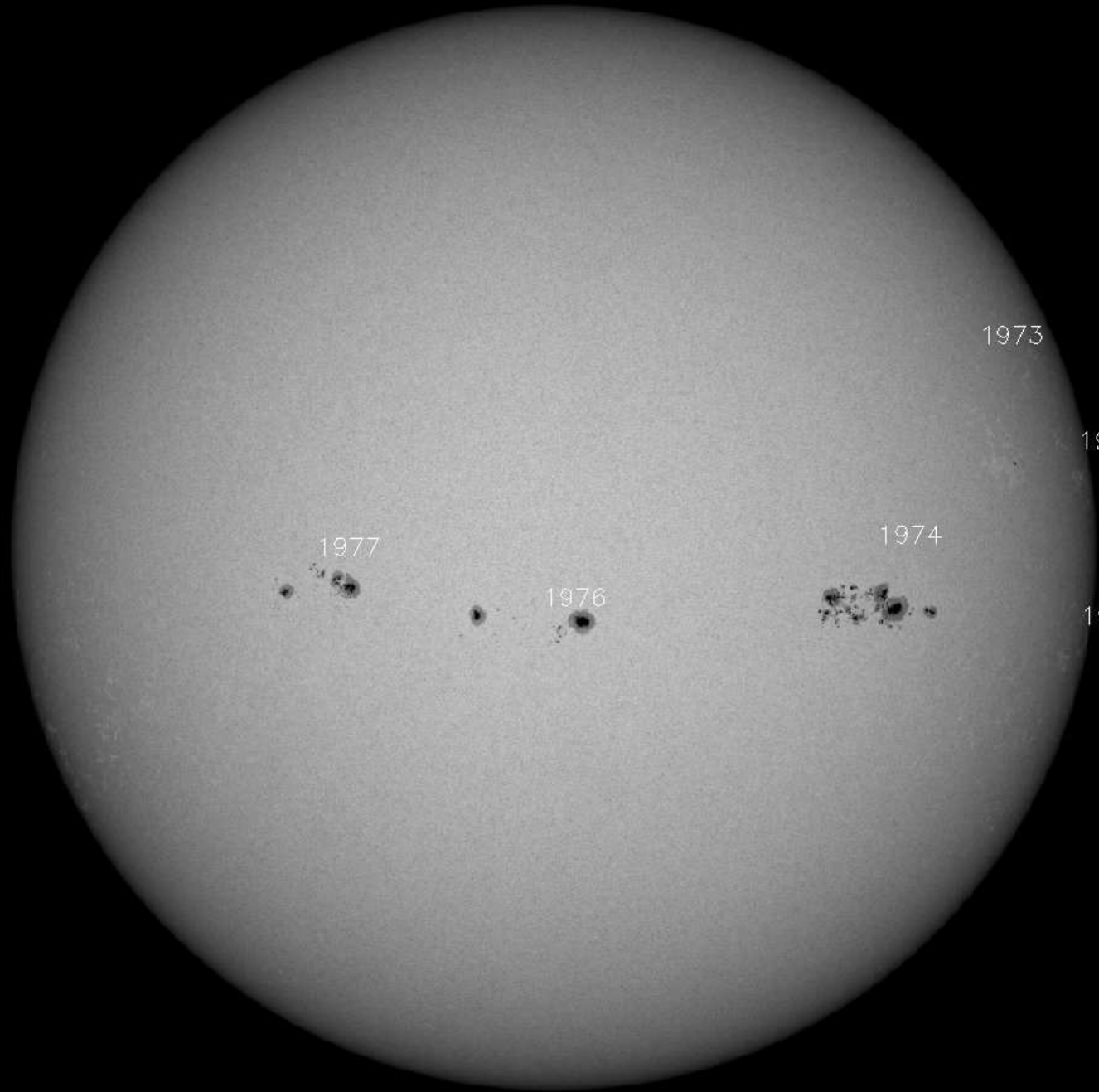


# Solare Flares am 14.2.2014 (Zeit: 11.40 Uhr, 13.40 Uhr, 14.30 Uhr UTC + 1) (NOAA-Skala: C, M, M)



SDO/AIA AIA\_4 304 14-Feb-2014 03:03:31.120 UT





1973

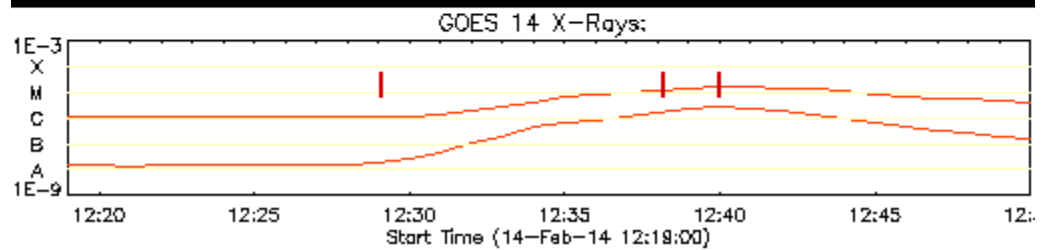
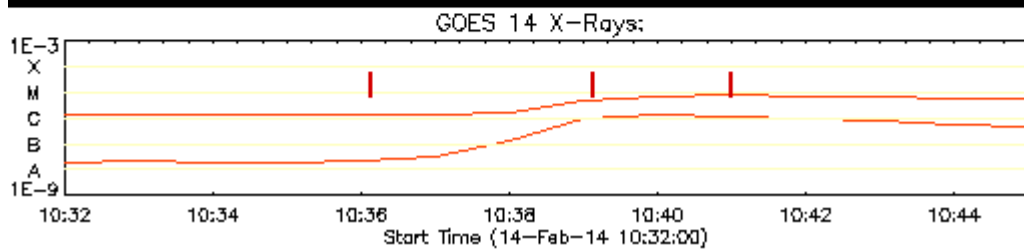
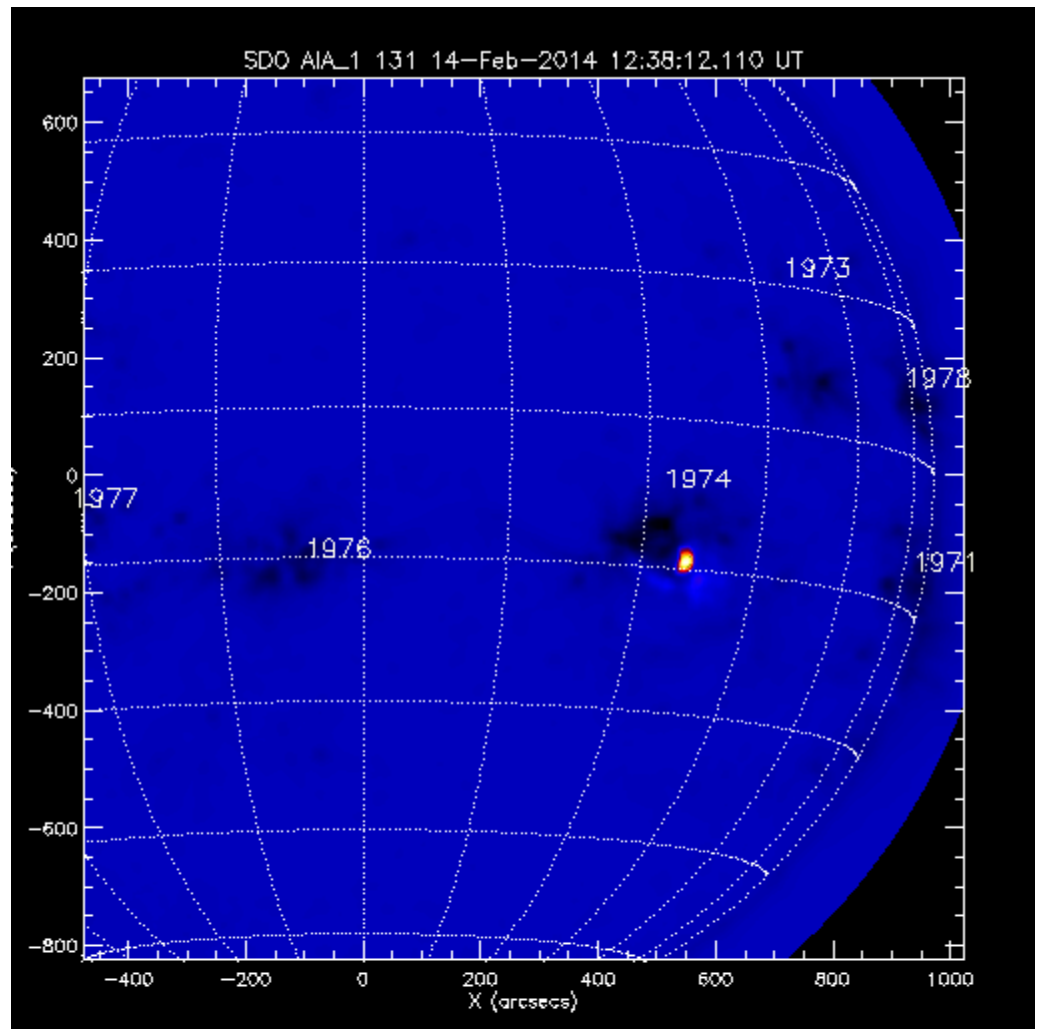
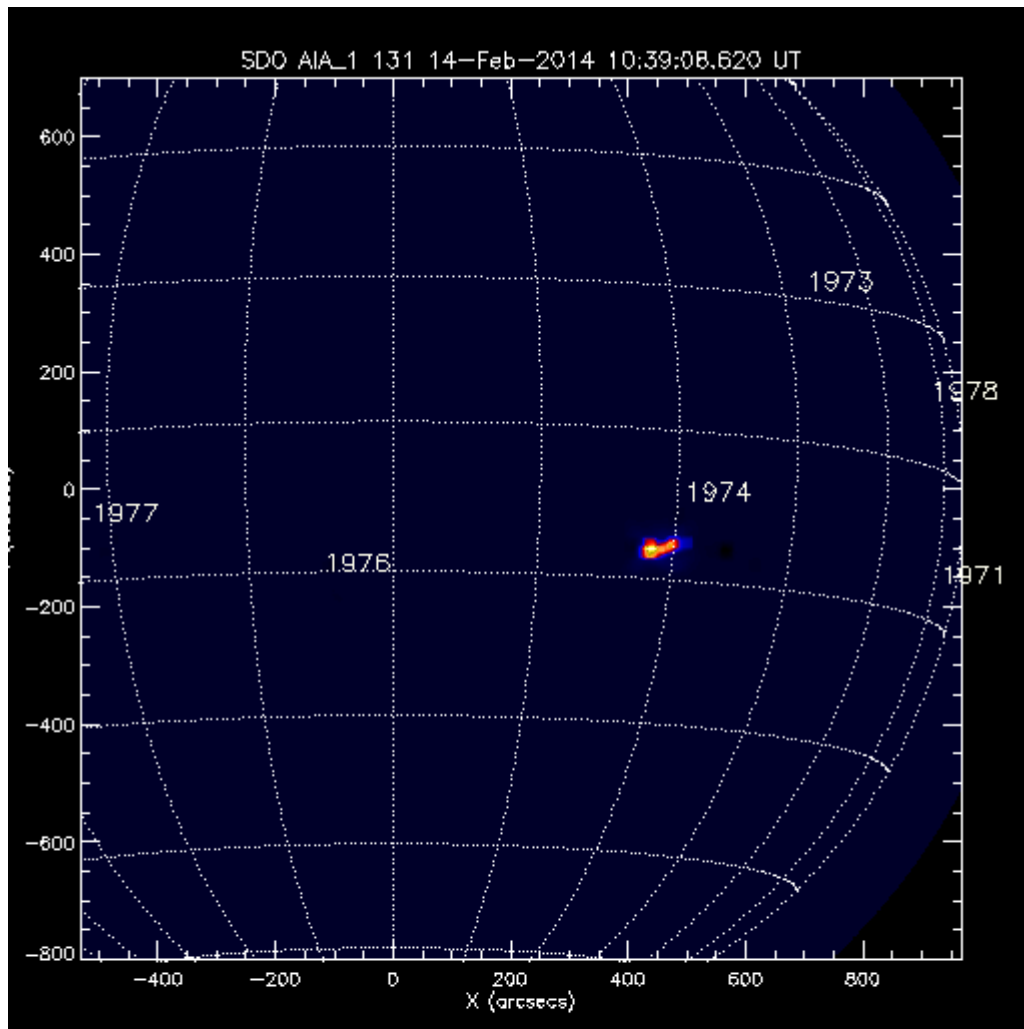
1978

1977

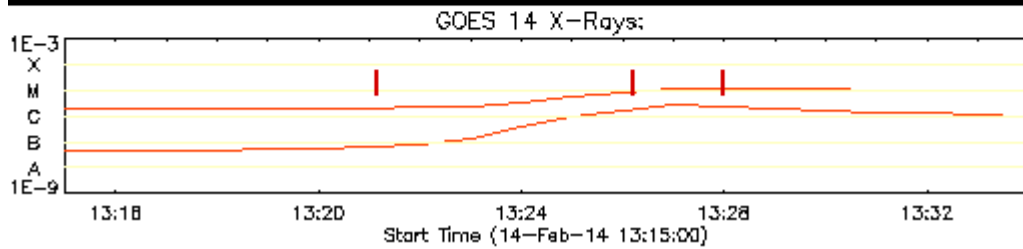
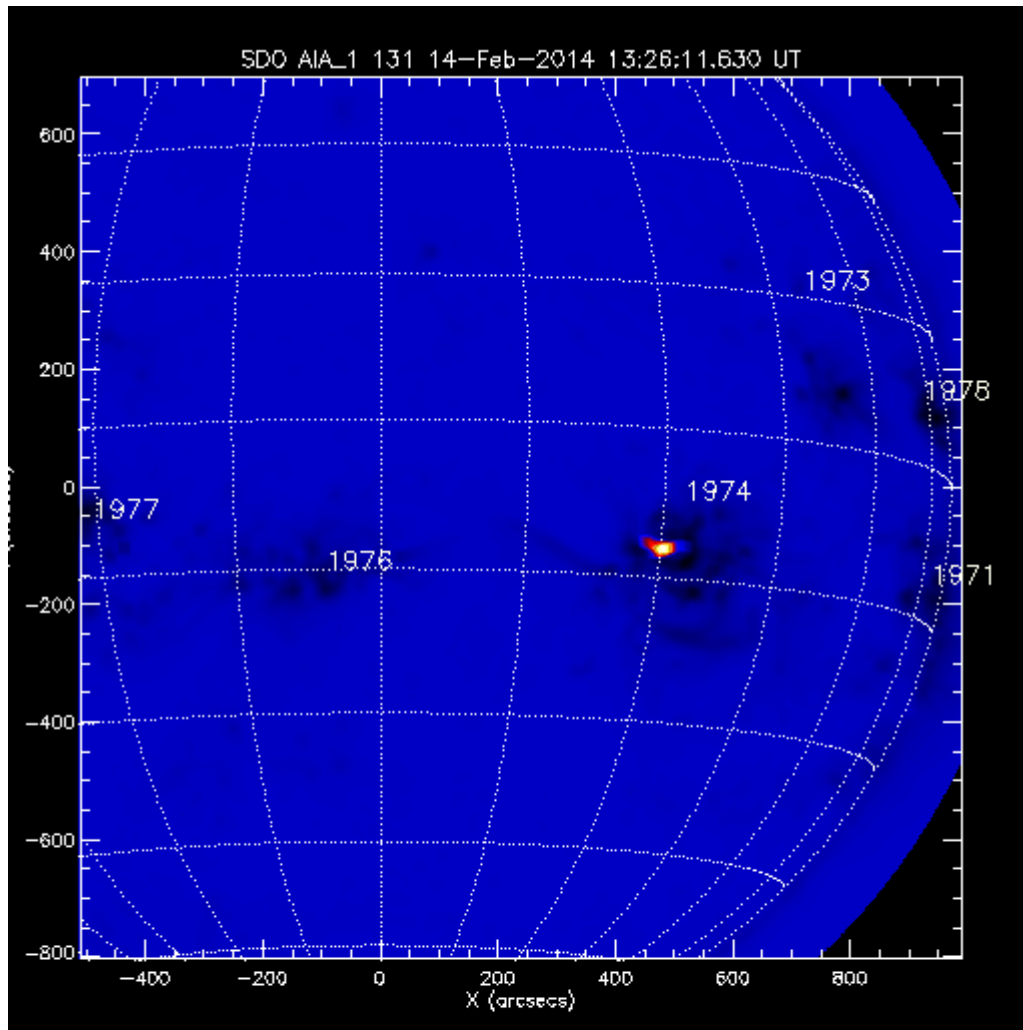
1974

1976

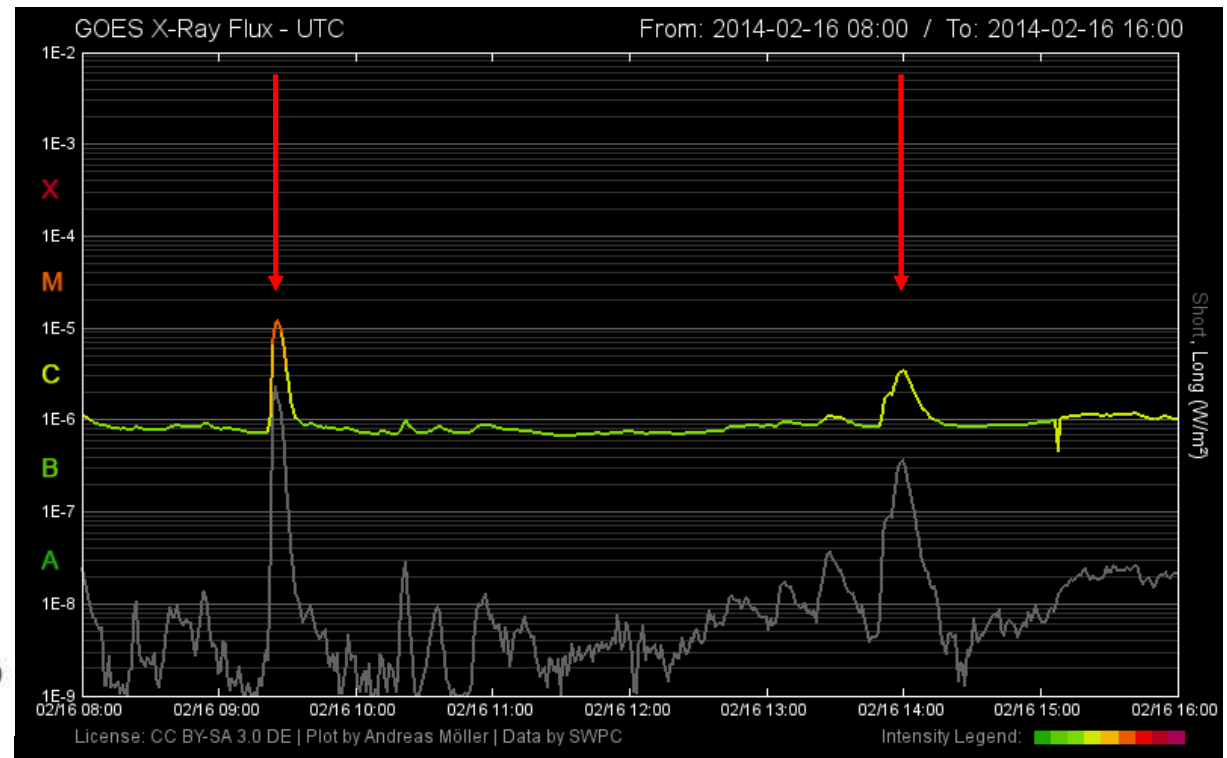
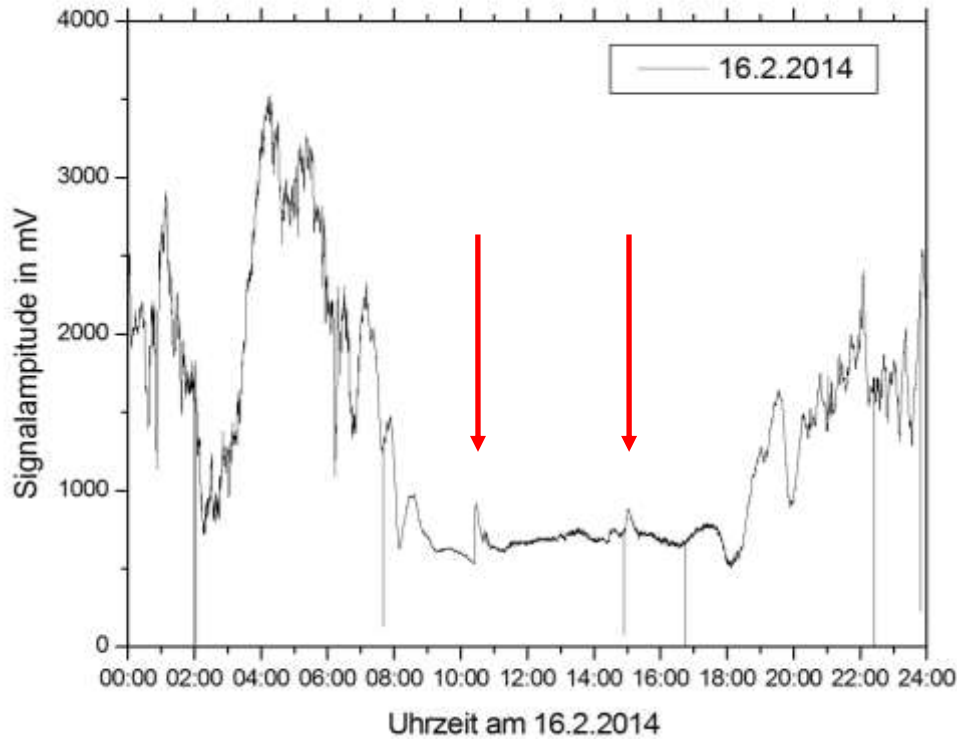
1971

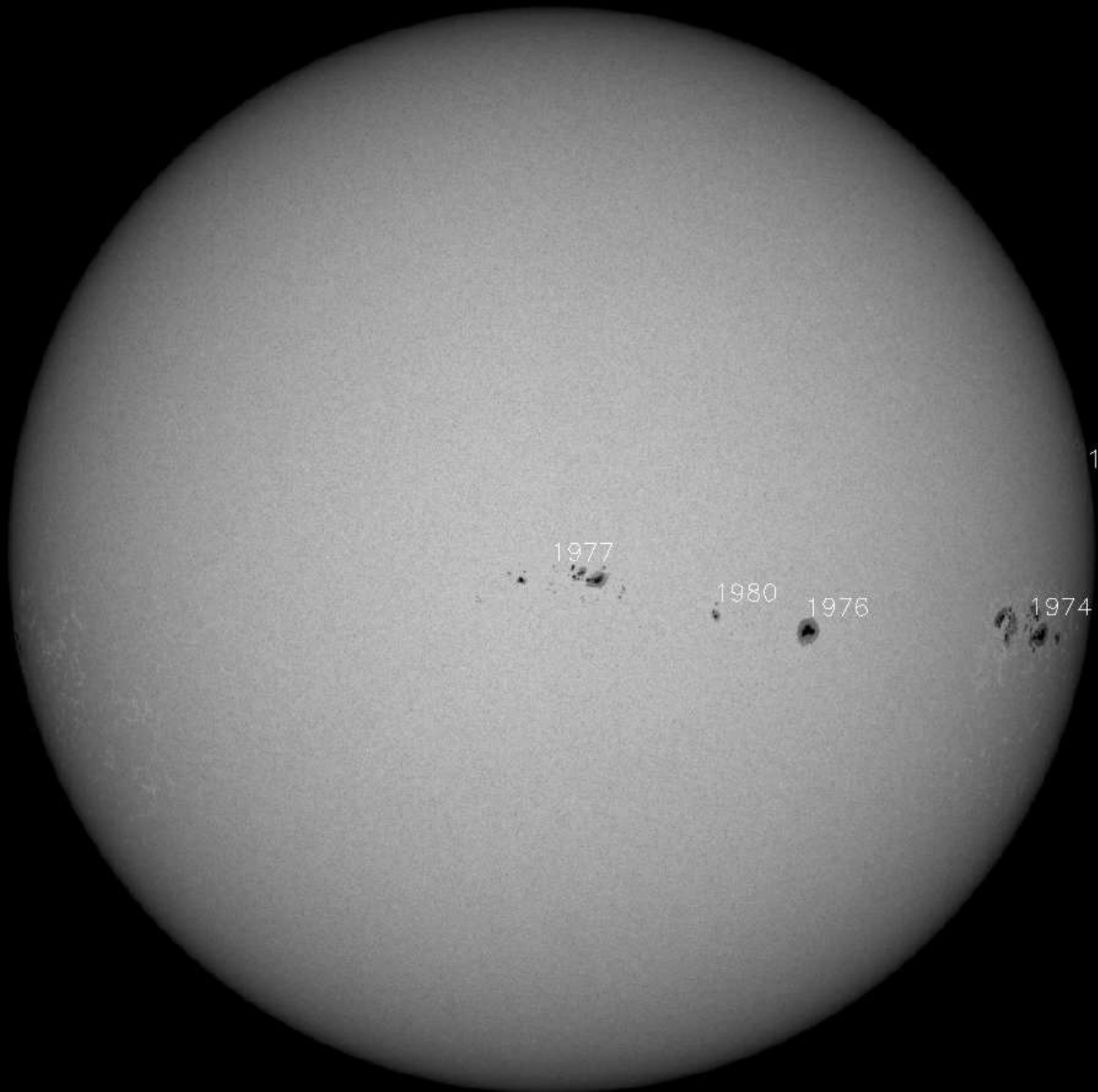






# Solare Flares am 16.2.2014 (Zeit: 10.30 Uhr, 15.00 Uhr UTC + 1) (NOAA-Skala: M, C)





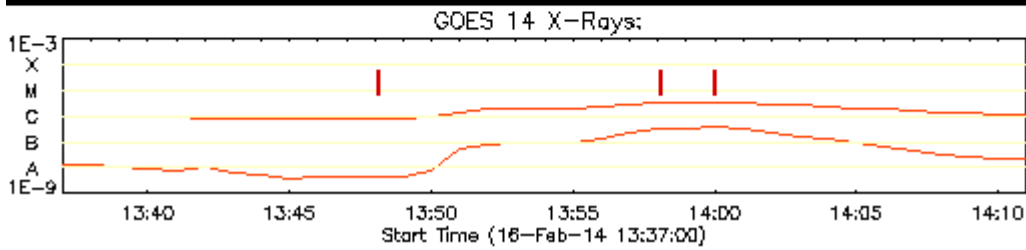
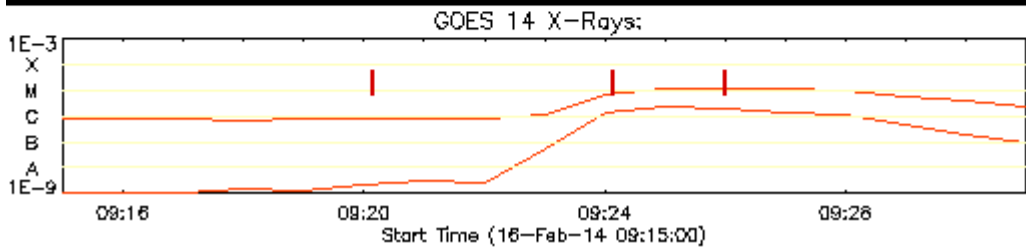
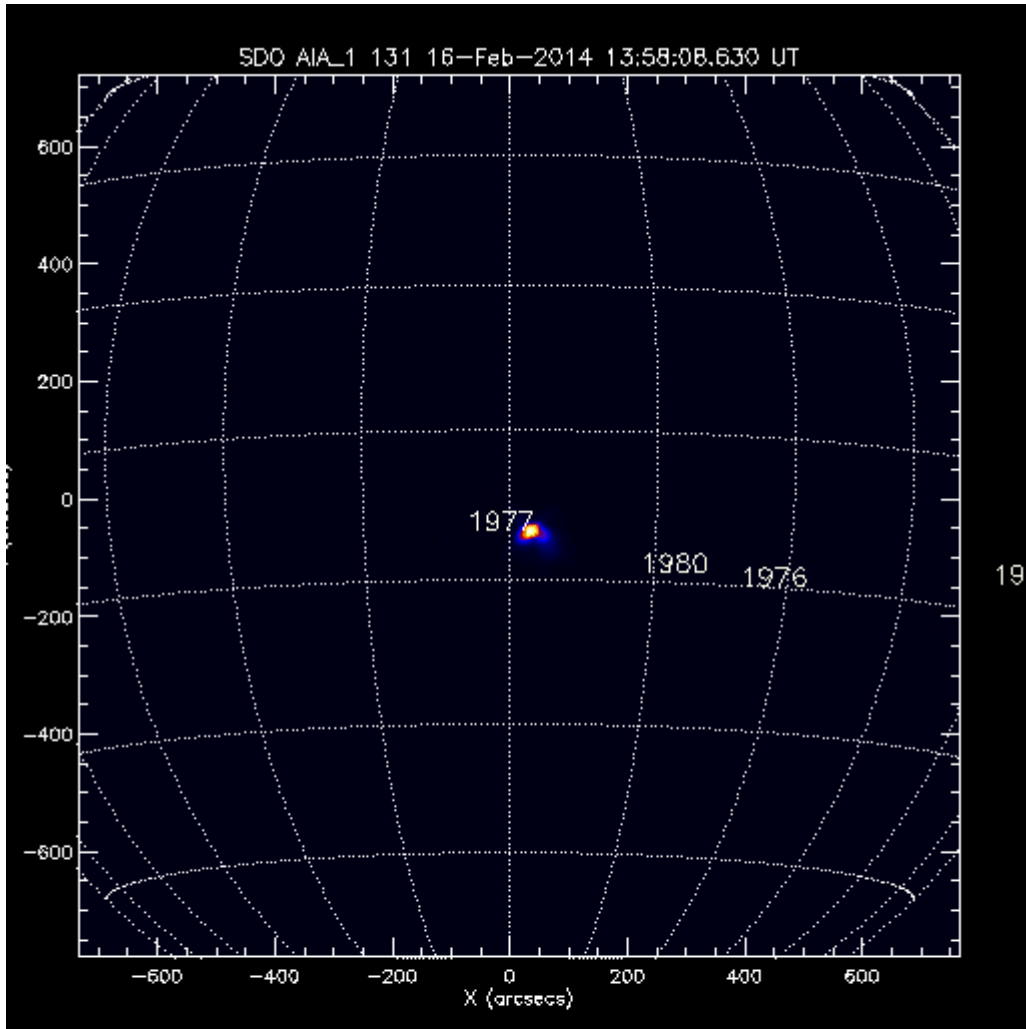
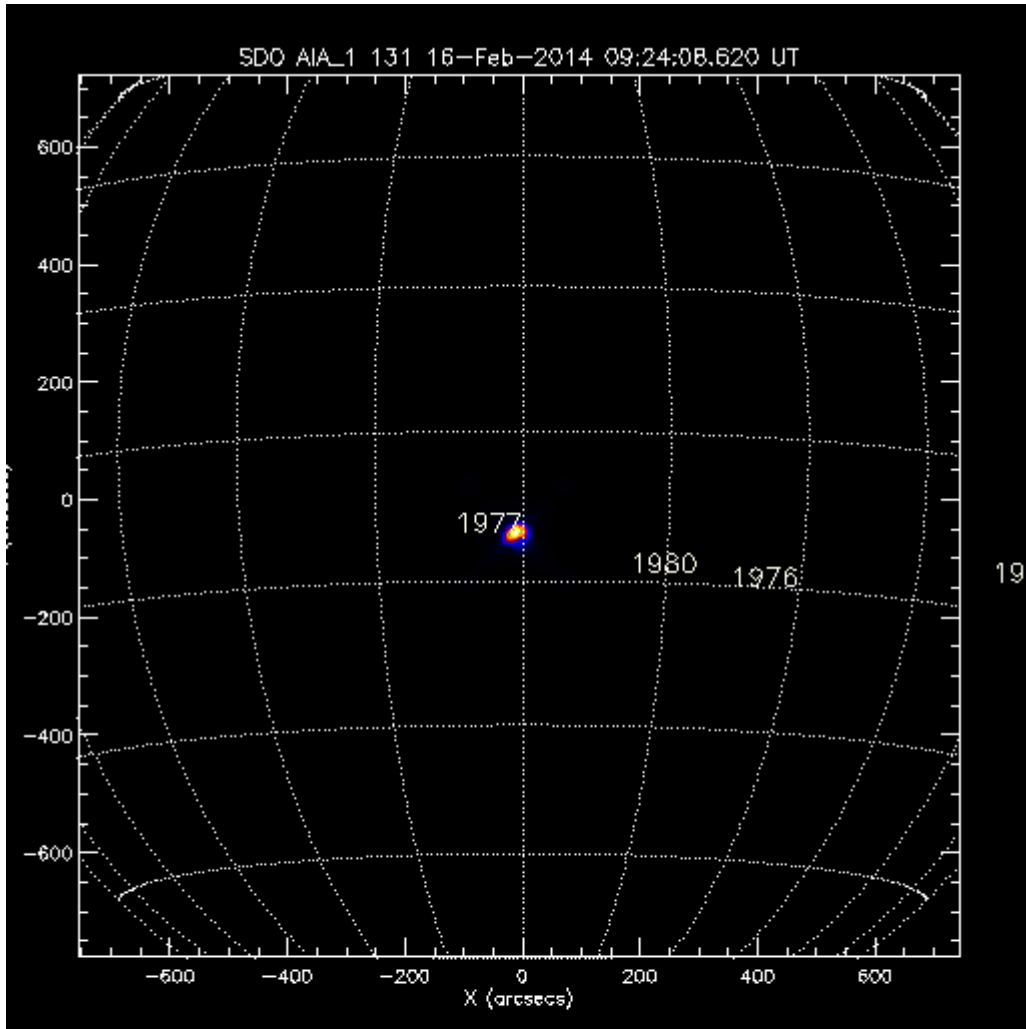
1973

1977

1980

1976

1974

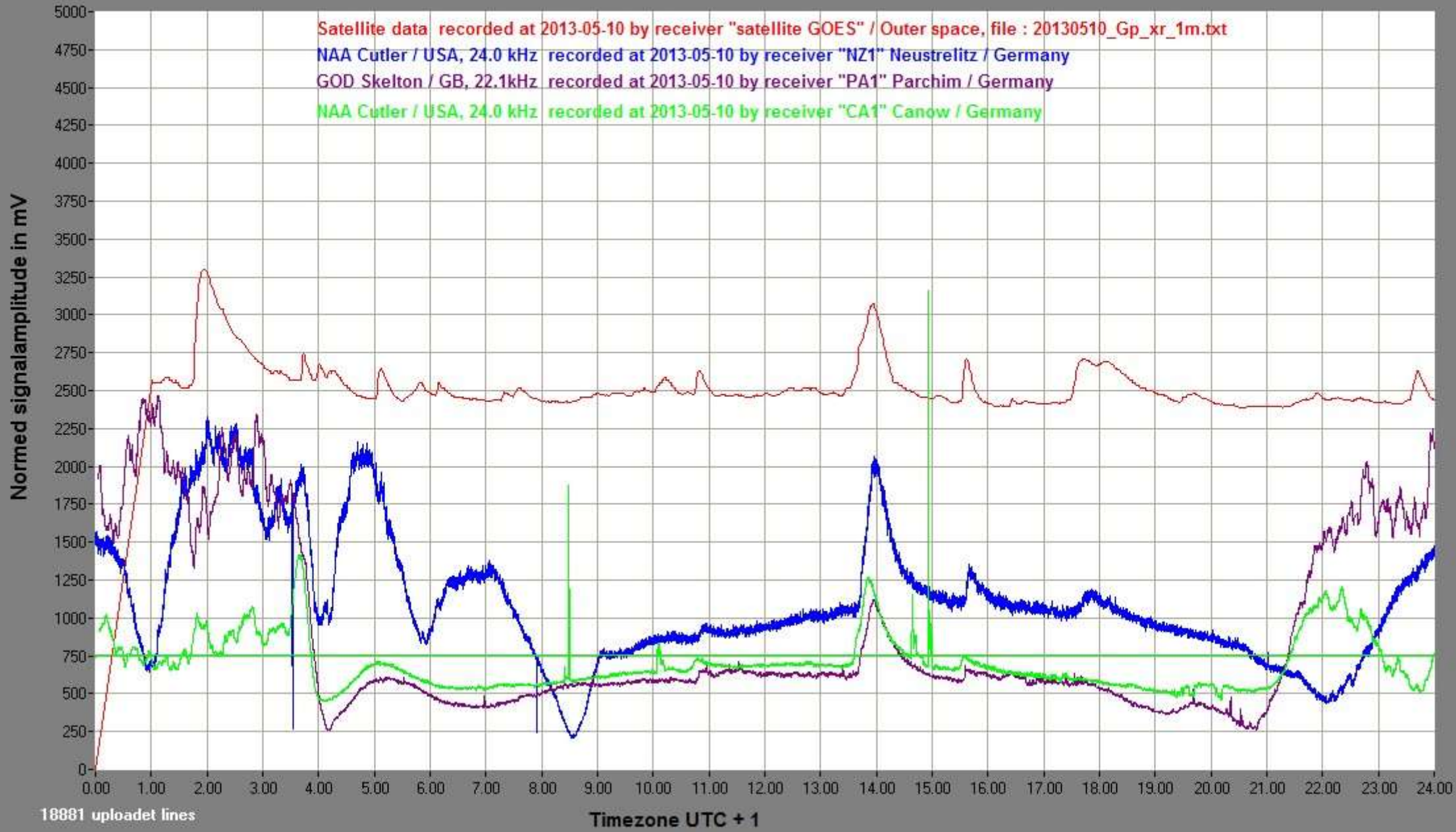






### Solar Flares detected by Ionospheric Effects

Satellite data recorded at 2013-05-10 by receiver "satellite GOES" / Outer space, file : 20130510\_Gp\_xr\_1m.txt  
NAA Cutler / USA, 24.0 kHz recorded at 2013-05-10 by receiver "NZ1" Neustrelitz / Germany  
GOD Skelton / GB, 22.1kHz recorded at 2013-05-10 by receiver "PA1" Parchim / Germany  
NAA Cutler / USA, 24.0 kHz recorded at 2013-05-10 by receiver "CA1" Canow / Germany

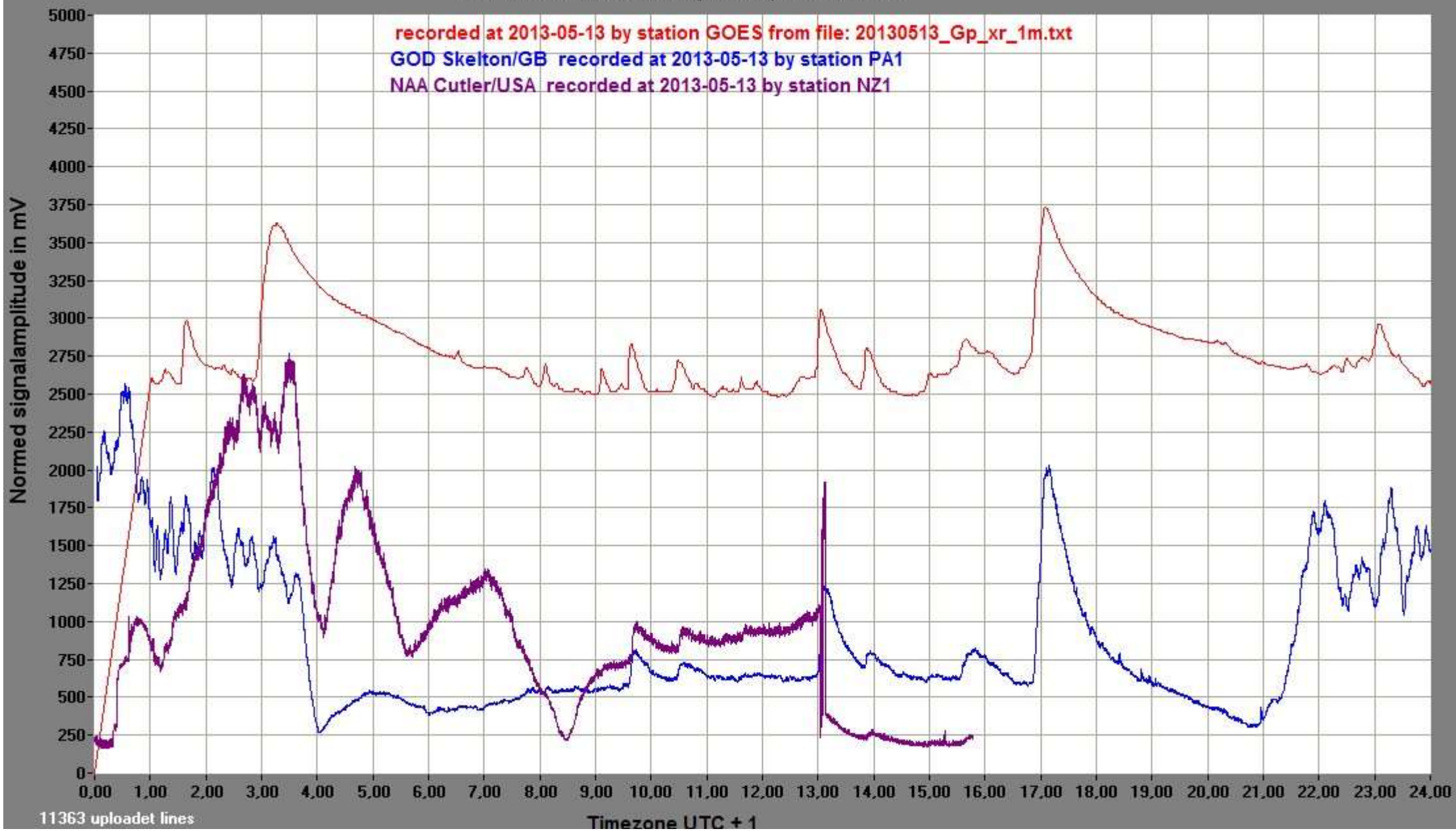


### Solar Flares detected by Ionospheric Effects

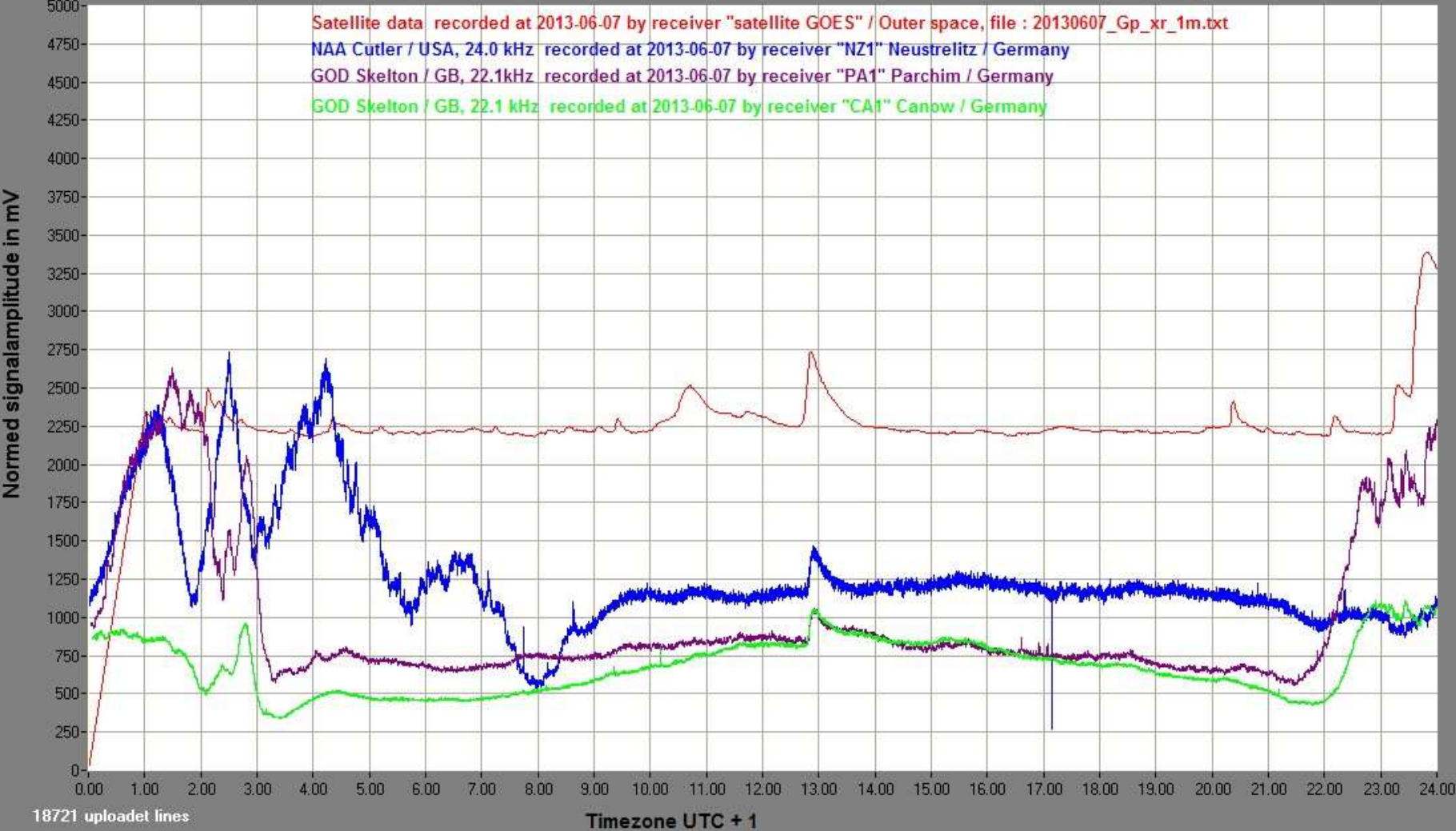
recorded at 2013-05-13 by station GOES from file: 20130513\_Gp\_xr\_1m.txt

GOD Skelton/GB recorded at 2013-05-13 by station PA1

NAA Cutler/USA recorded at 2013-05-13 by station NZ1



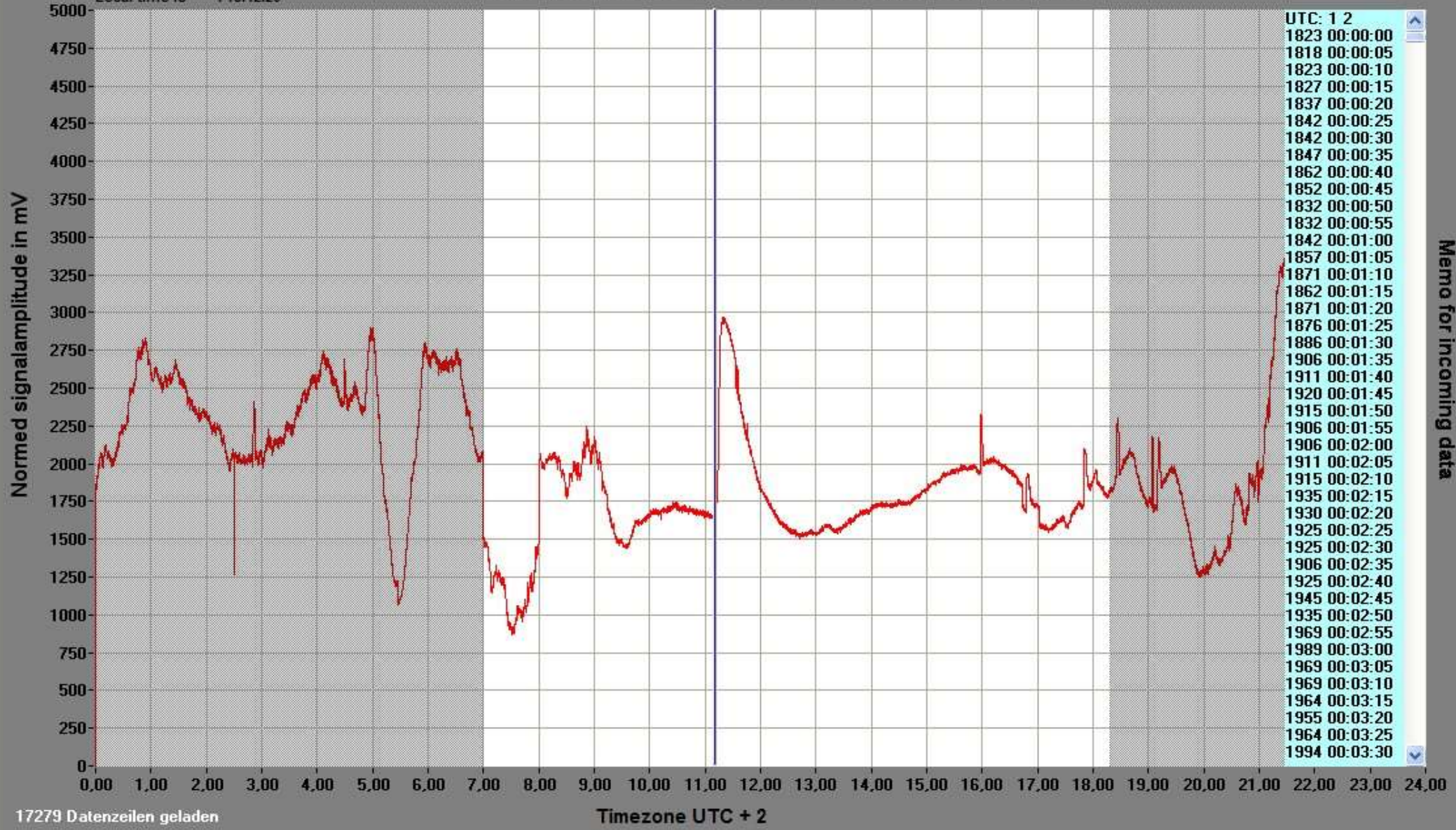
### SOLar Flares detected by Ionospheric Effects





Receiver ident is : NZ1  
Local date is : 2012/10/11  
Local time is : 15:42:20

### DLR\_Project\_Lab, SOlar Flares detected by Ionospheric Effects



Memo for incoming data



### Solar Flares detected by Ionospheric Effects

