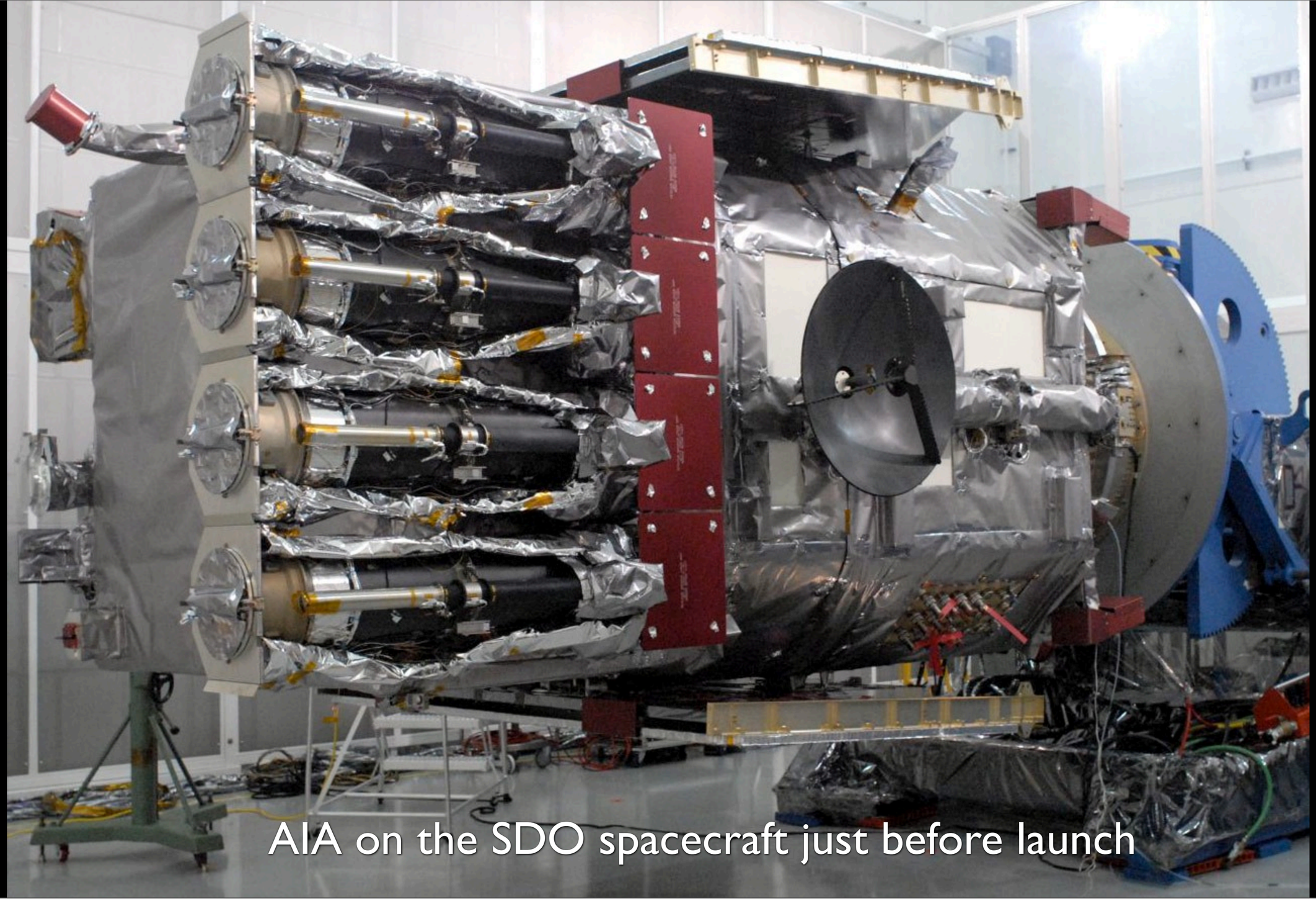
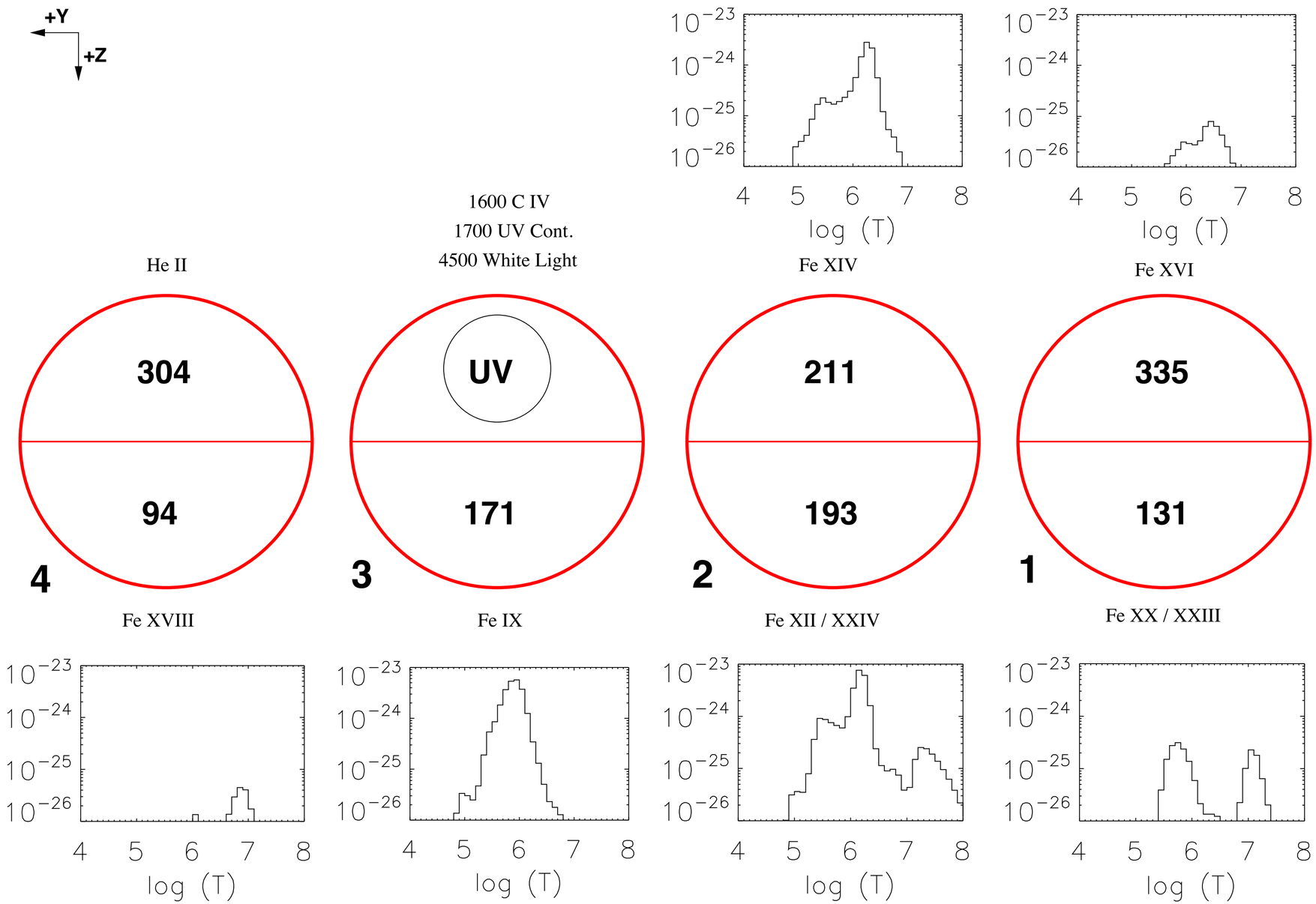


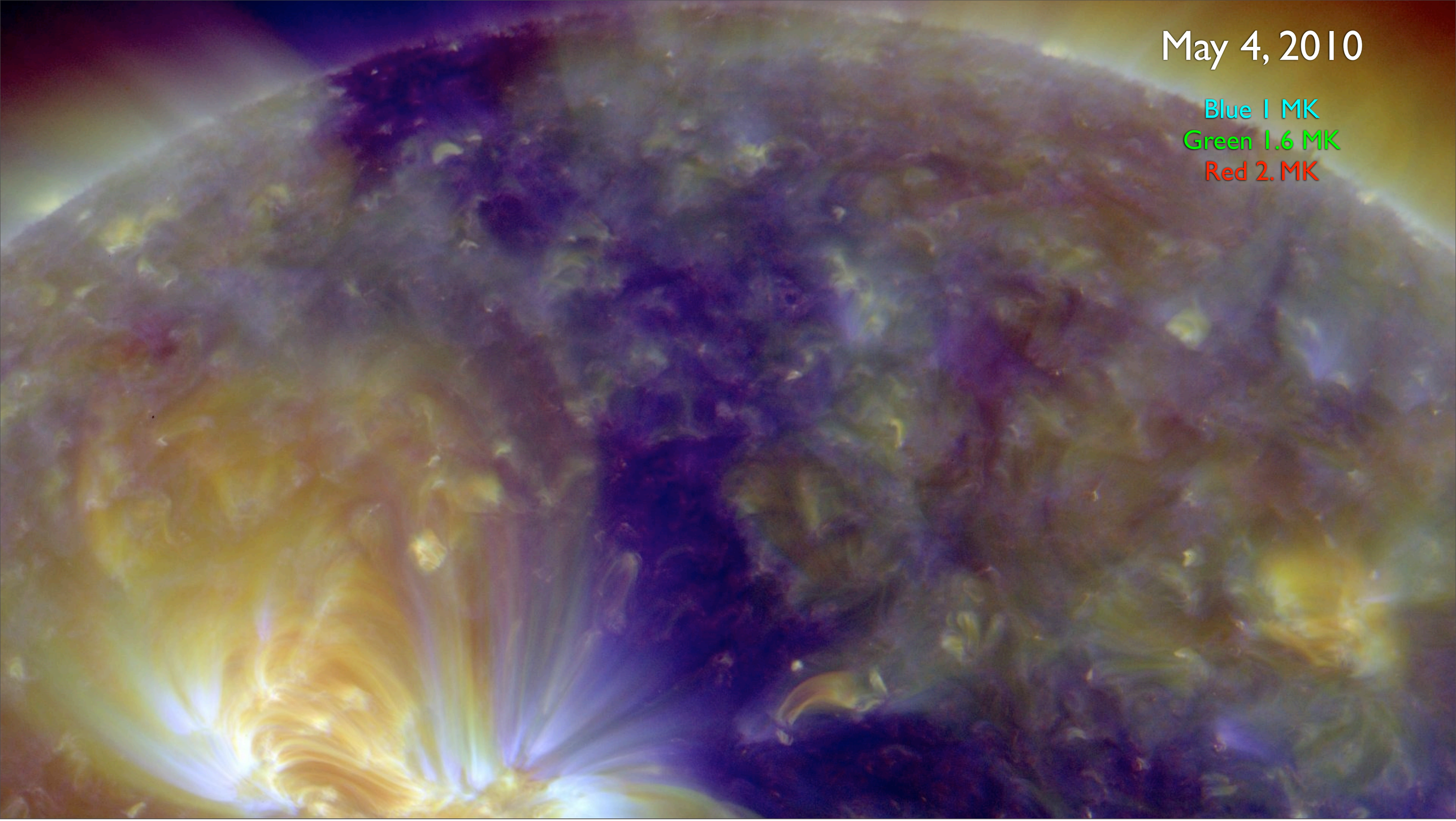
AIA on the SDO spacecraft just before launch

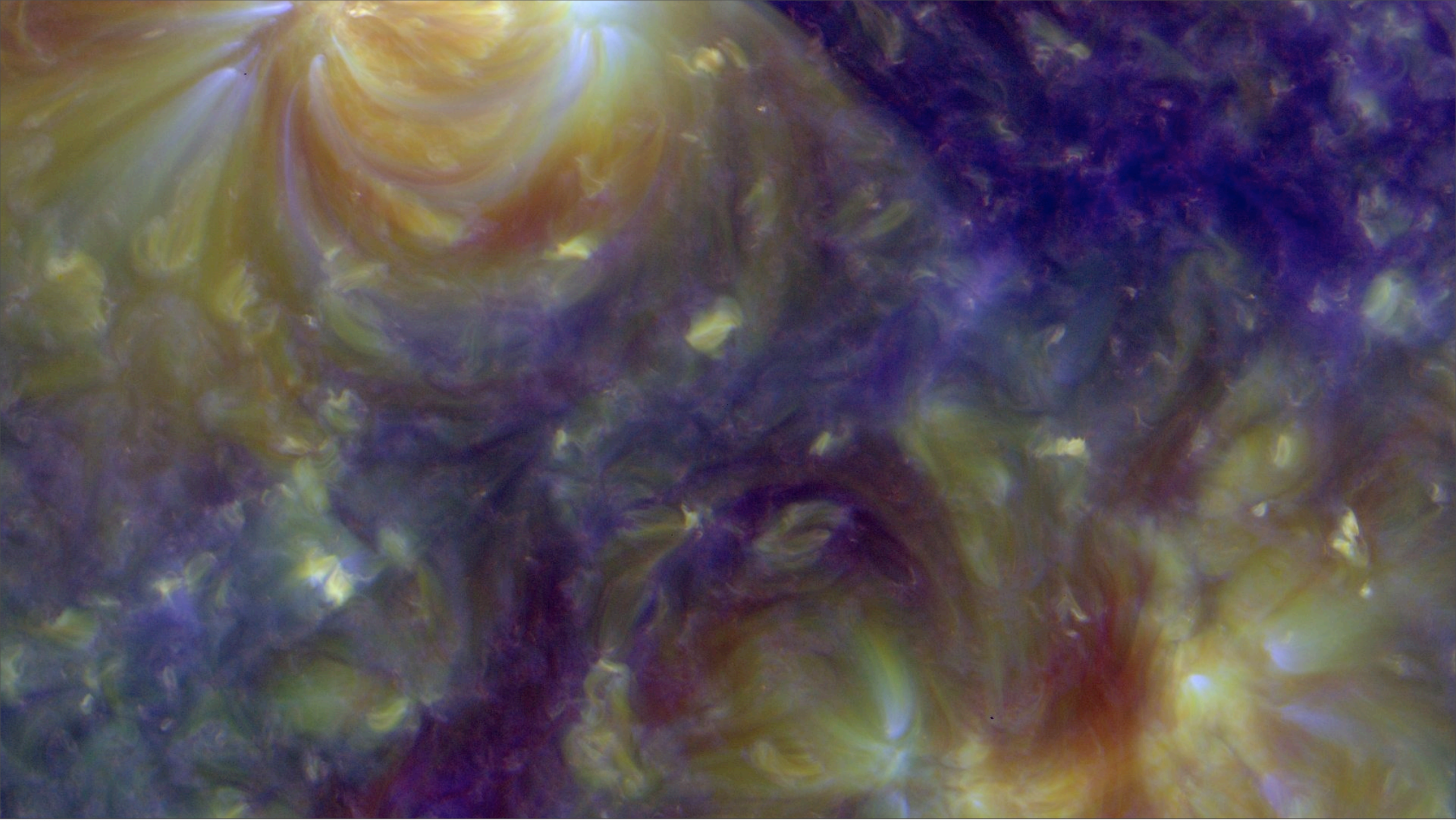
AIA at LMSAL just before delivery

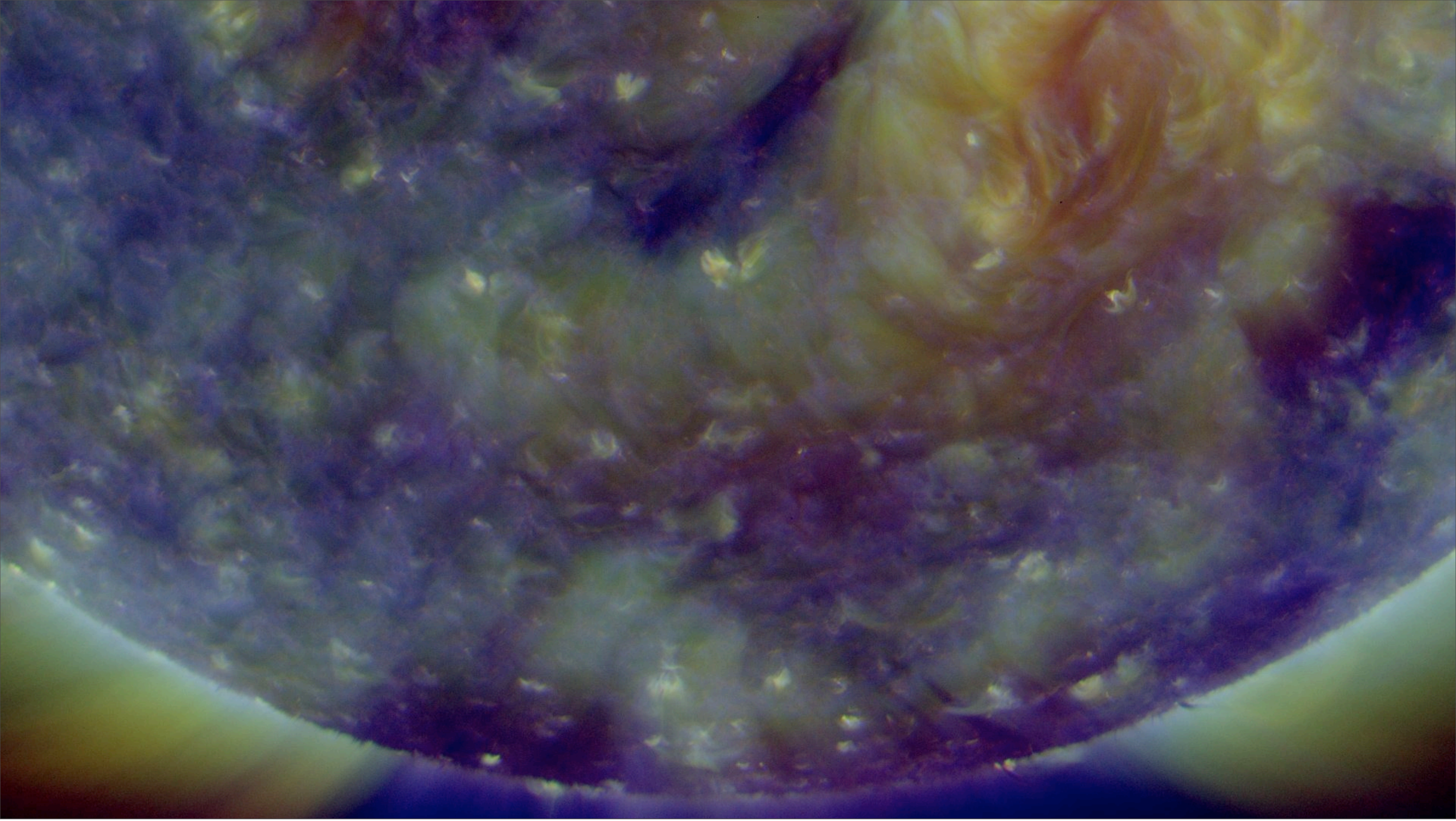
AIA Telescopes & Wavelengths

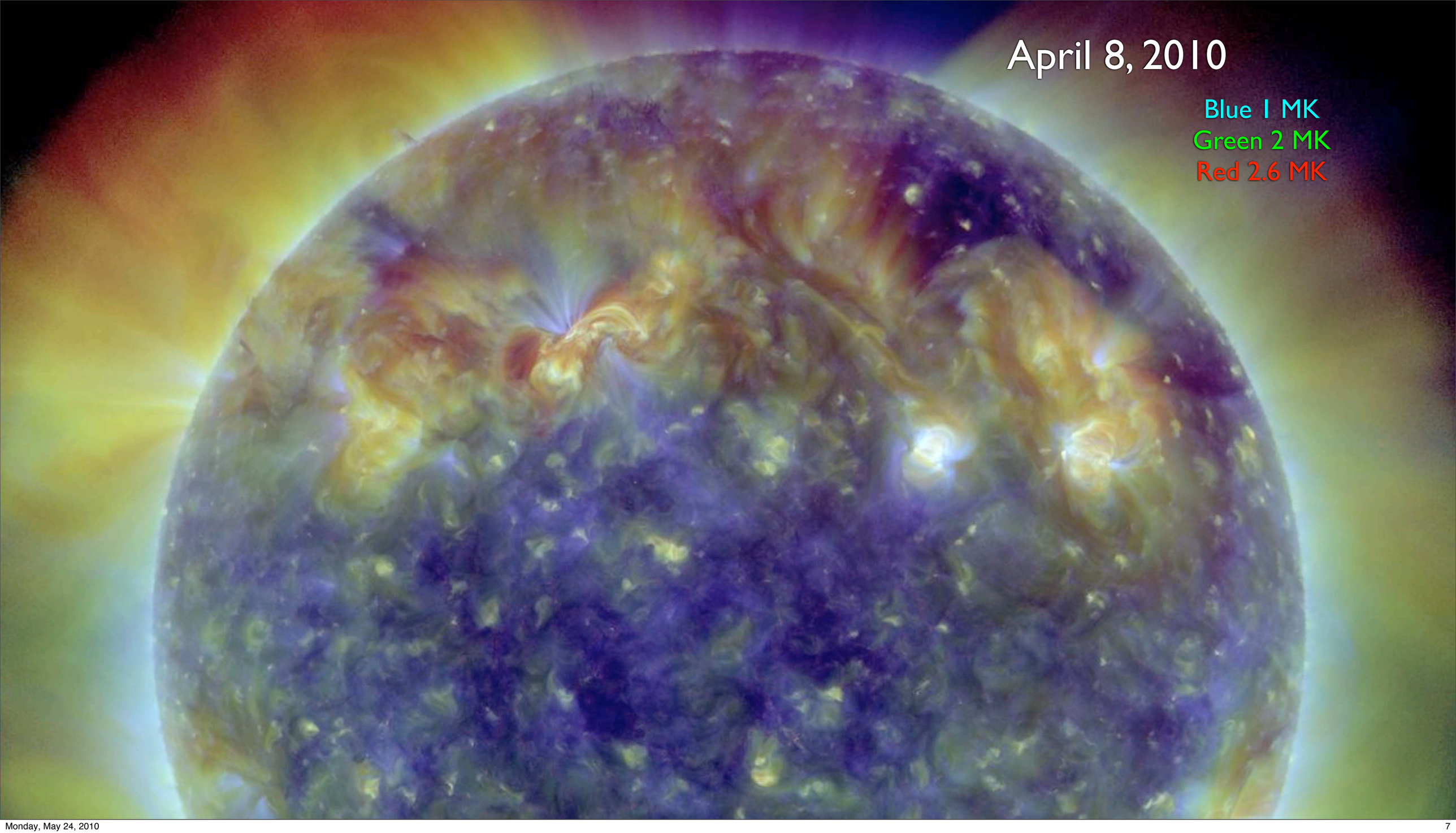


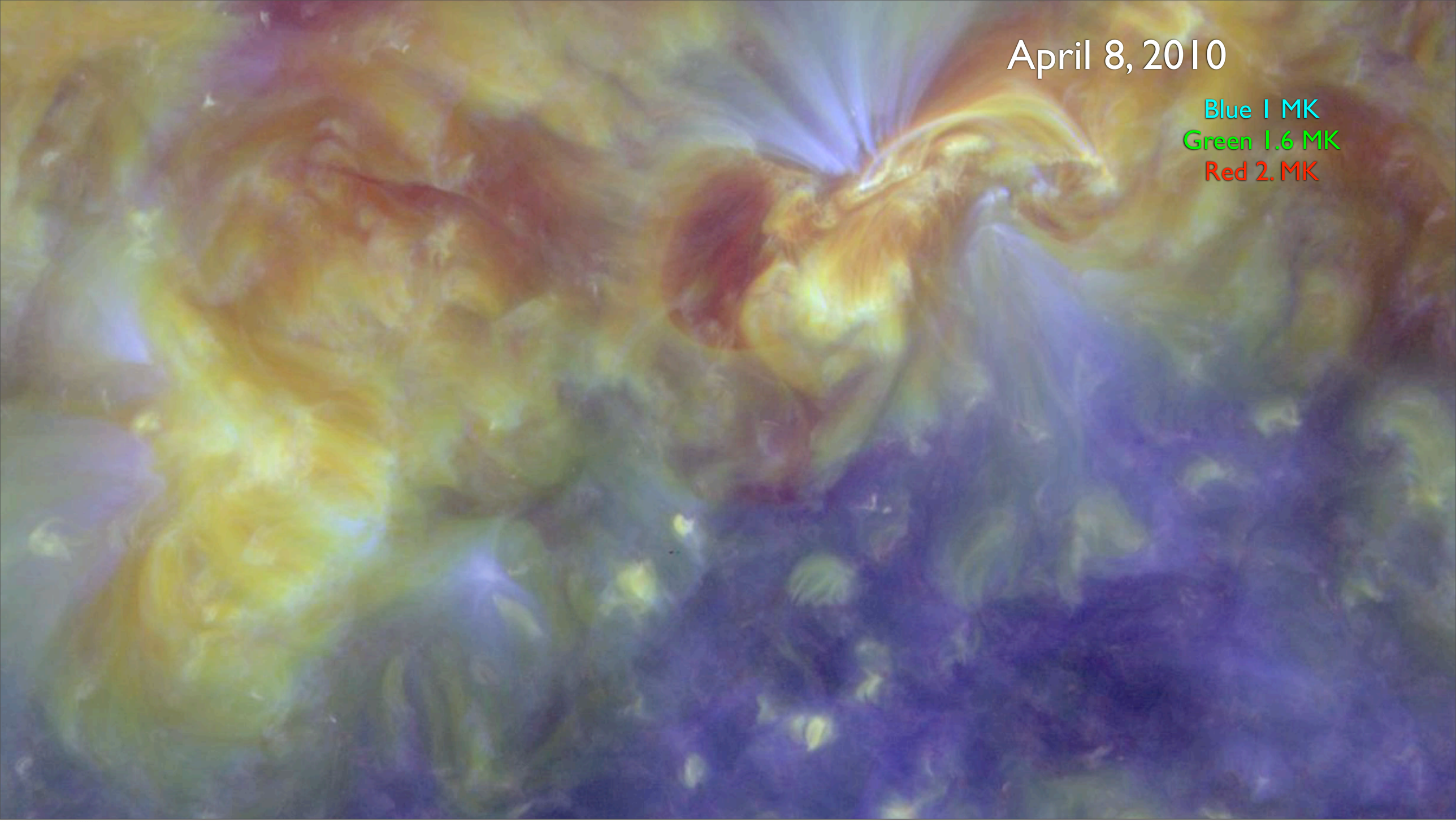
Looking at the AIA from the Sun


May 4, 2010
Blue 1 MK
Green 1.6 MK
Red 2. MK






April 8, 2010
Blue 1 MK
Green 2 MK
Red 2.6 MK

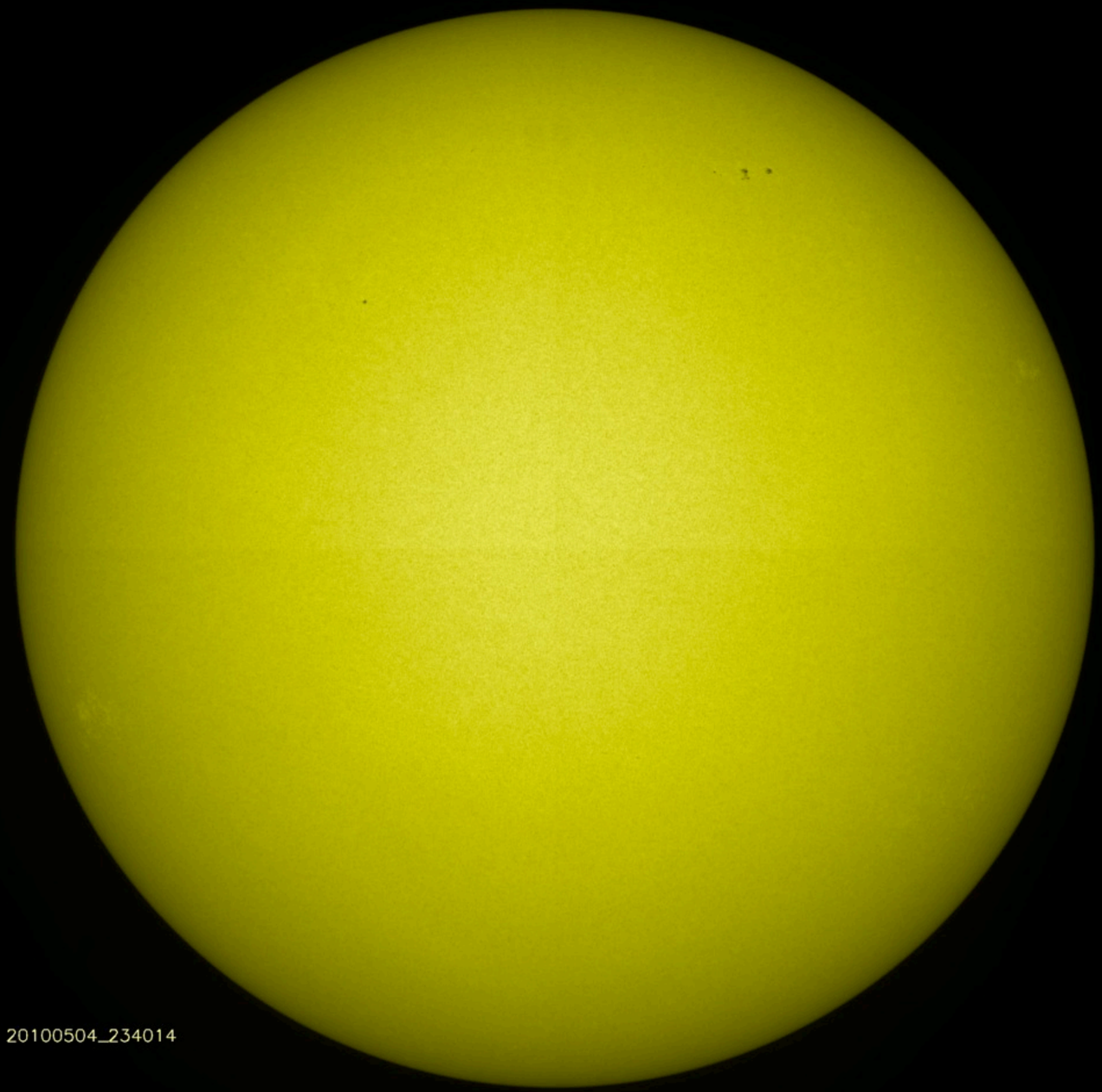

April 8, 2010
Blue 1 MK
Green 1.6 MK
Red 2. MK

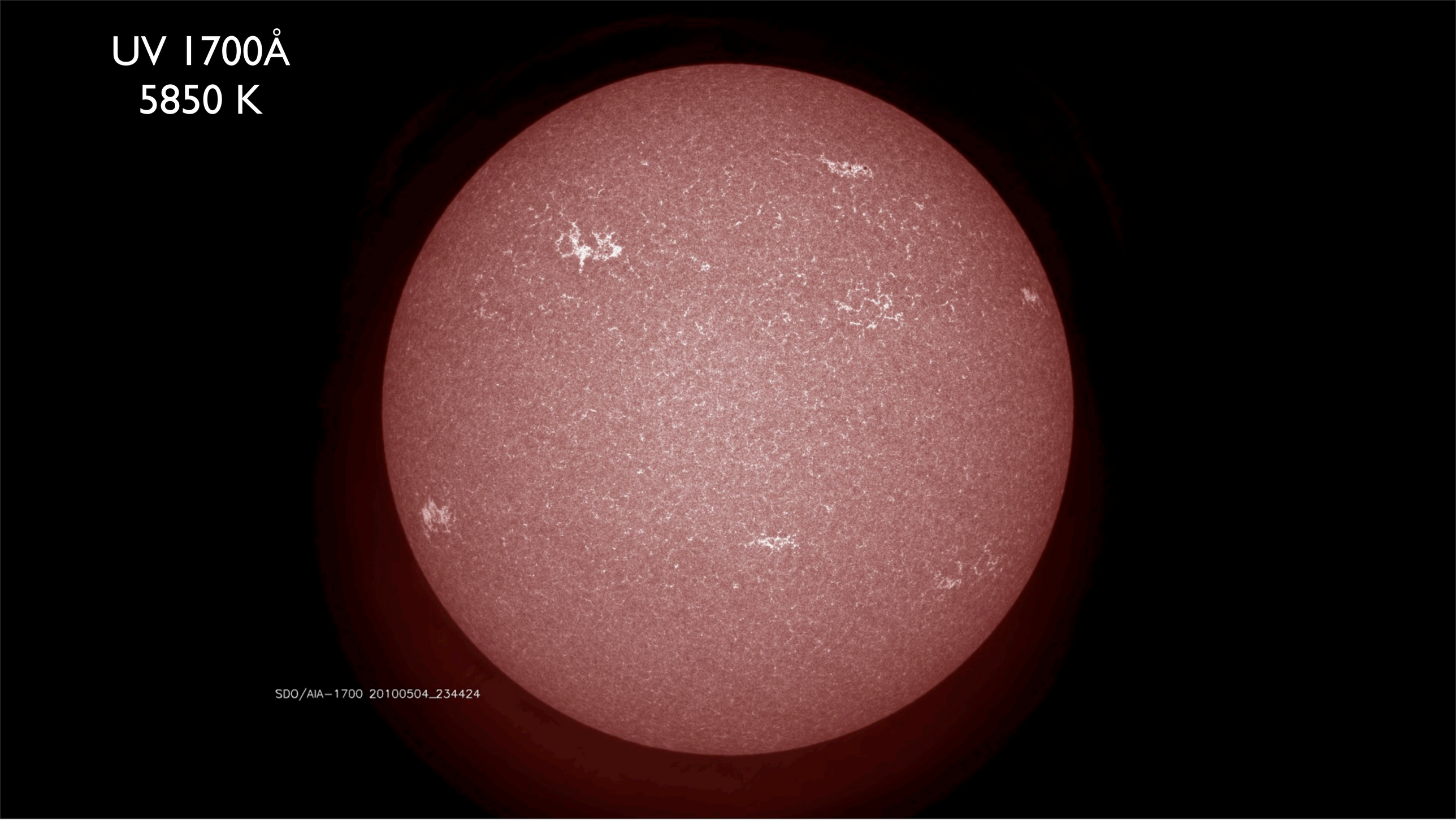
Bob Leighton said, "*If it weren't for the magnetic field the Sun would be as boring as the astronomers think it is*"

The continuous evolution of the surface field on the spatial and temporal scale of convection structures the entire outer atmosphere.

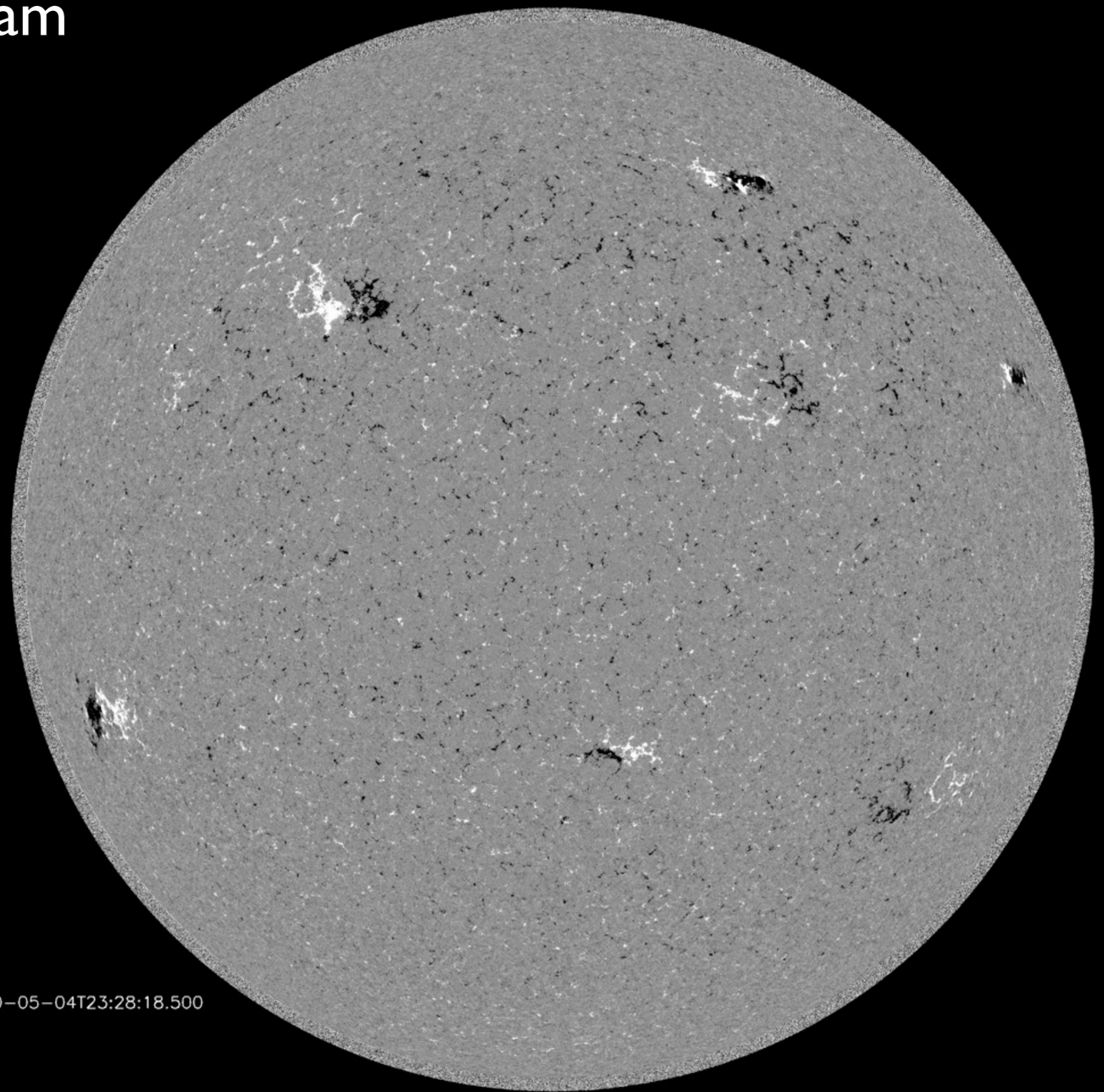
Current evidence indicates that the magnetic field is a direct result of the hydrodynamics of a conducting gas and that magnetic field can not be understood without an understanding of the coupled interactions of flow and fields.

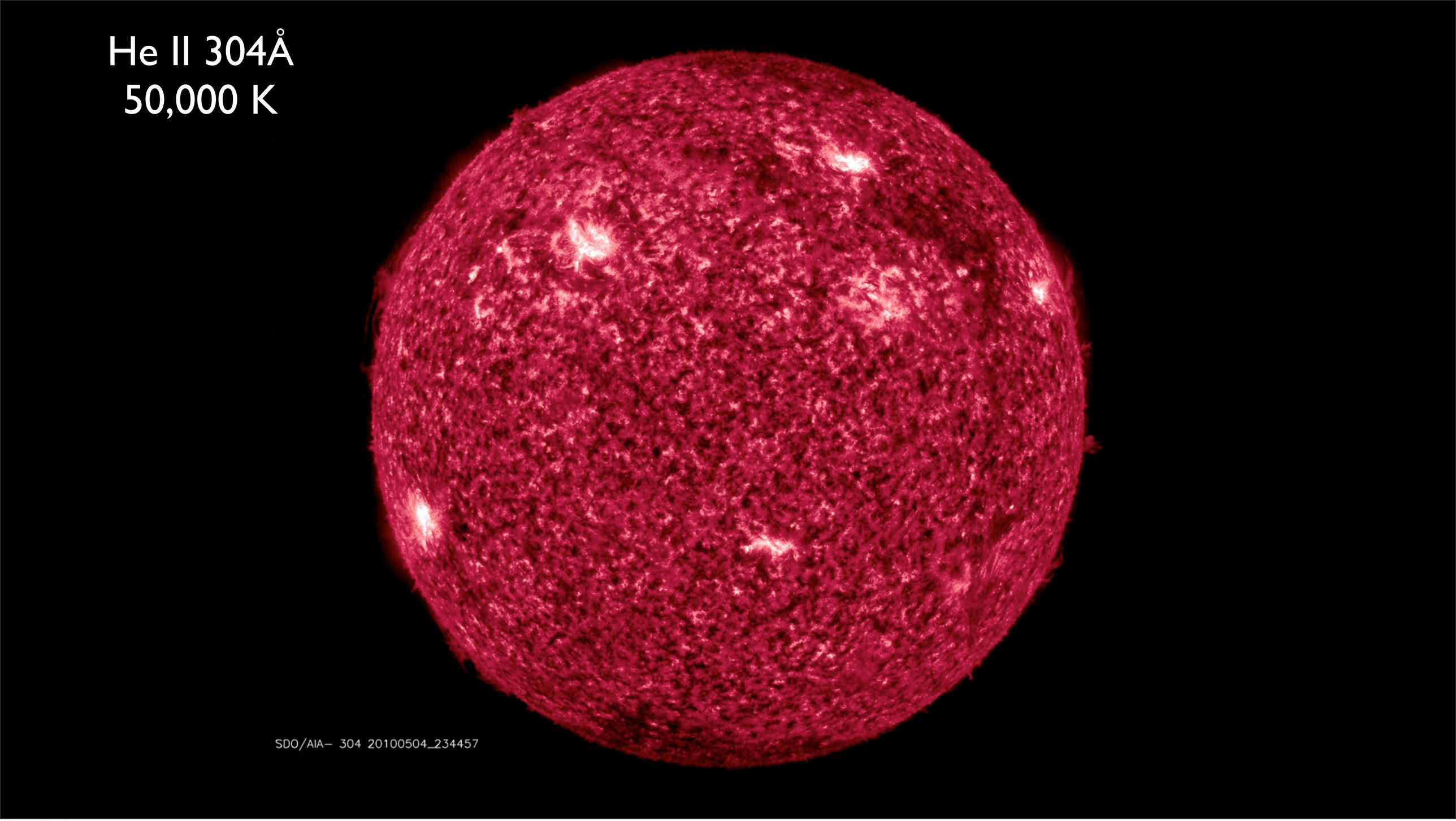
Visible Surface
5850 K

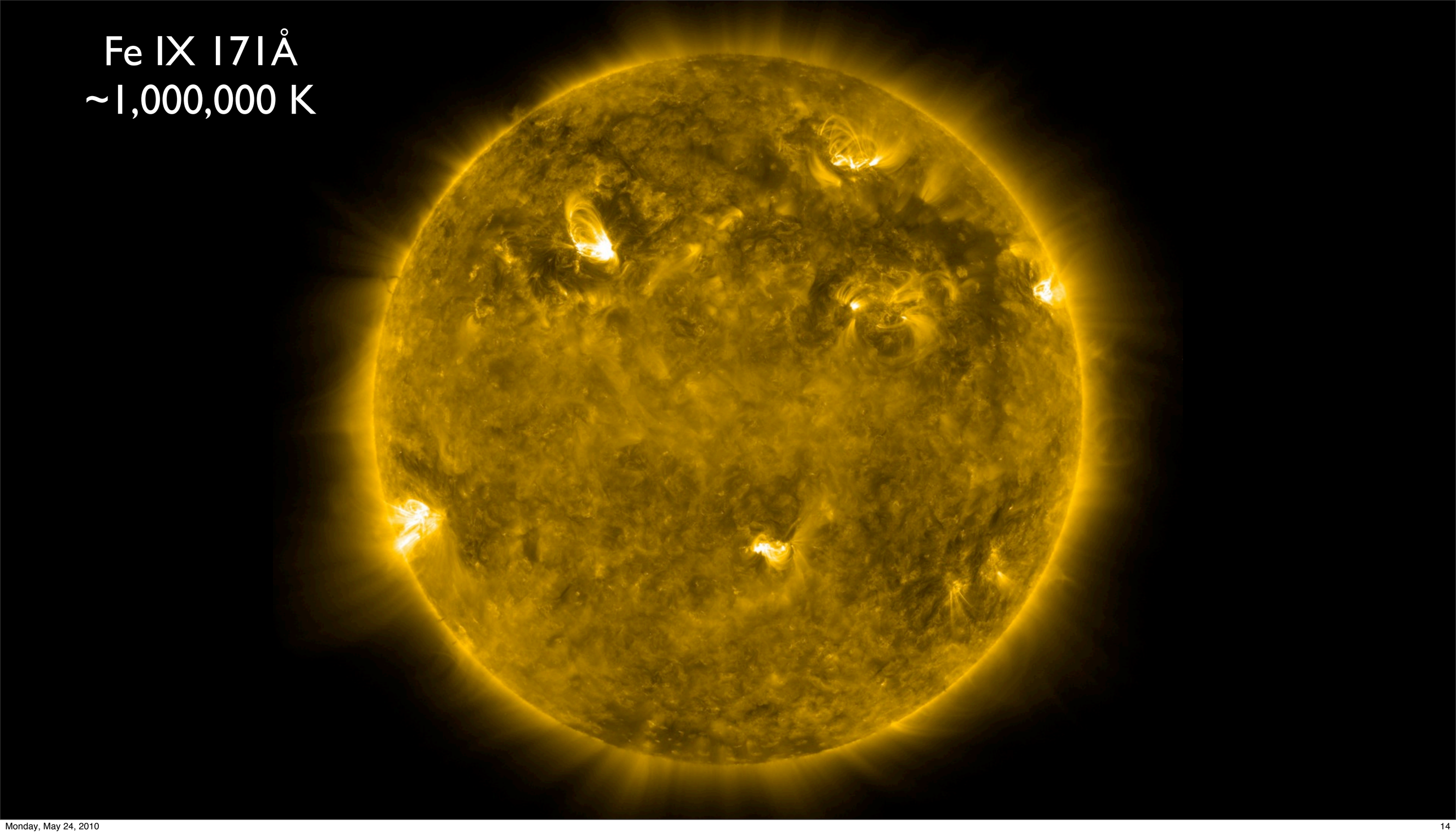


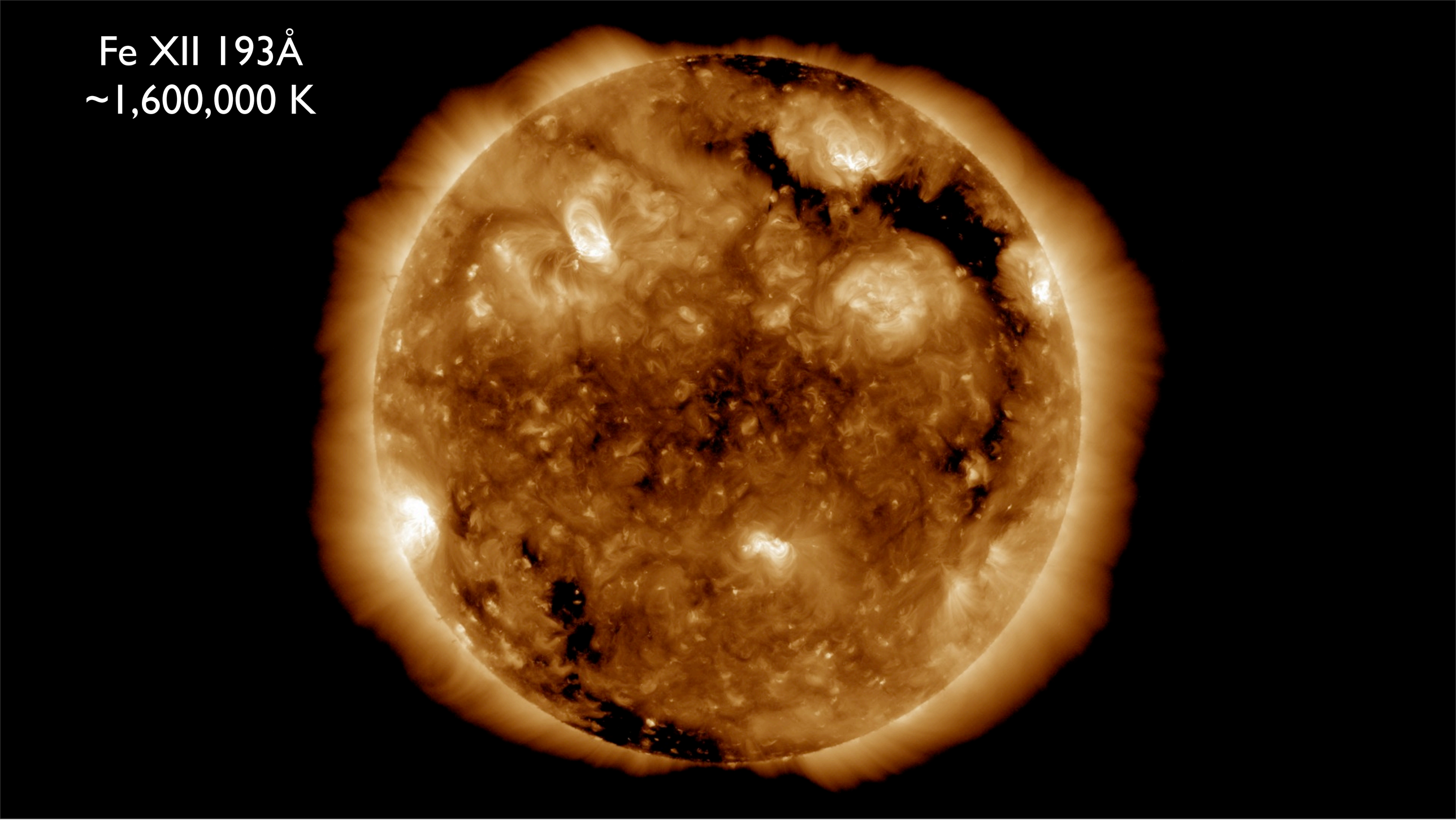

UV 1700Å
5850 K
SDO/AIA-1700 20100504_234424

Surface Magnetogram

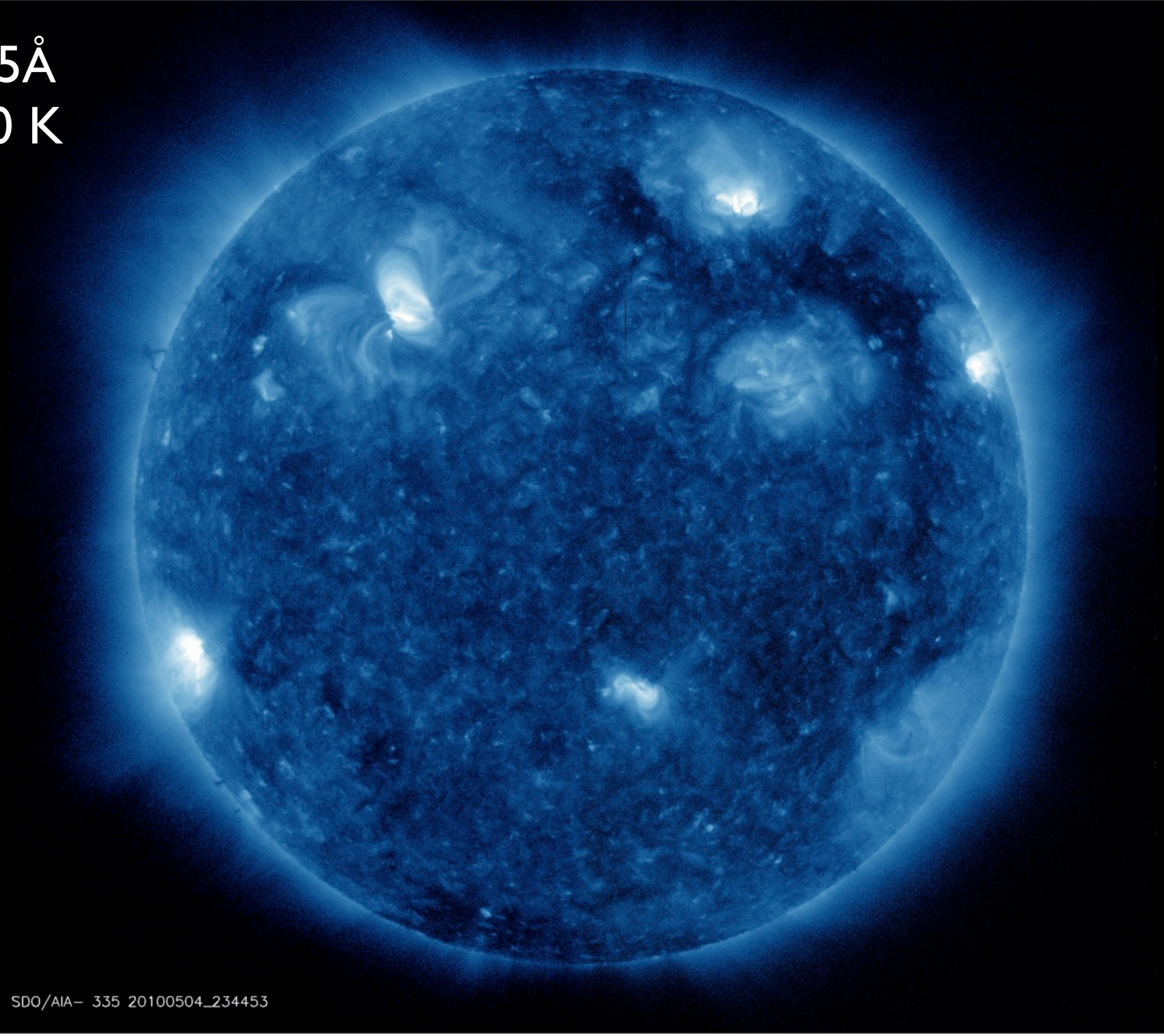


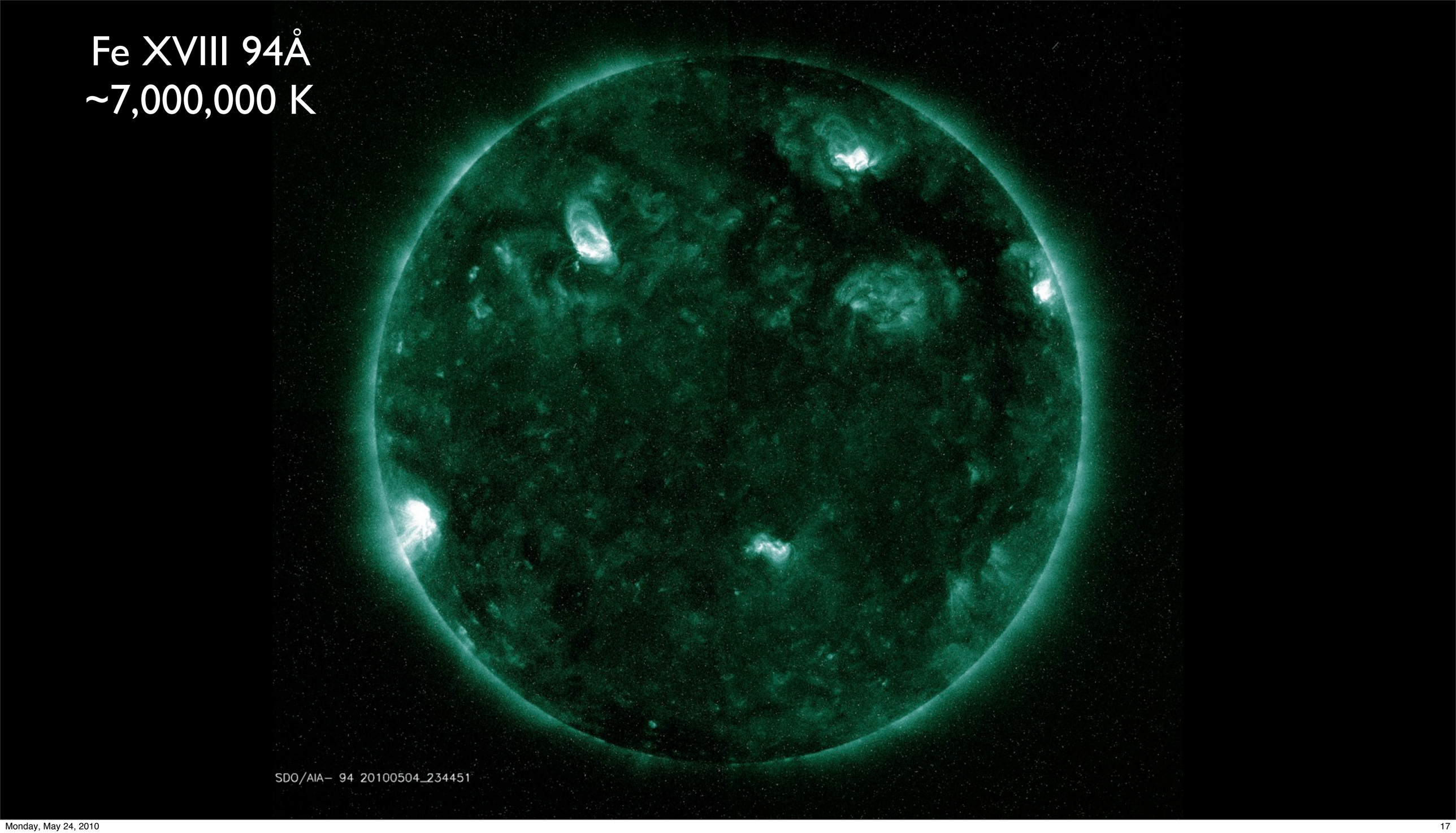

He II 304Å
50,000 K
SDO/AIA- 304 20100504_234457

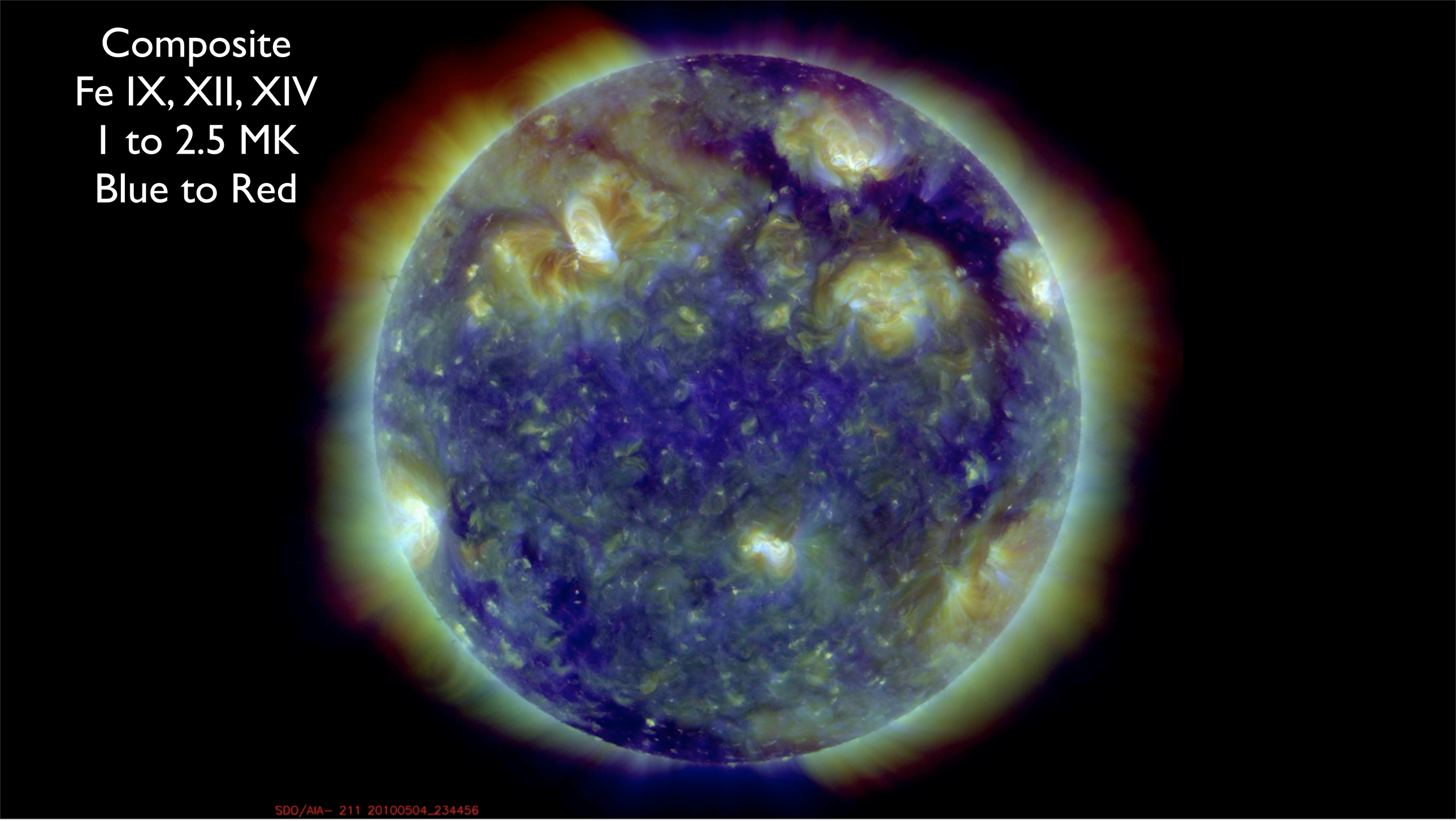

Fe IX 171Å
~1,000,000 K


Fe XII 193Å
~1,600,000 K

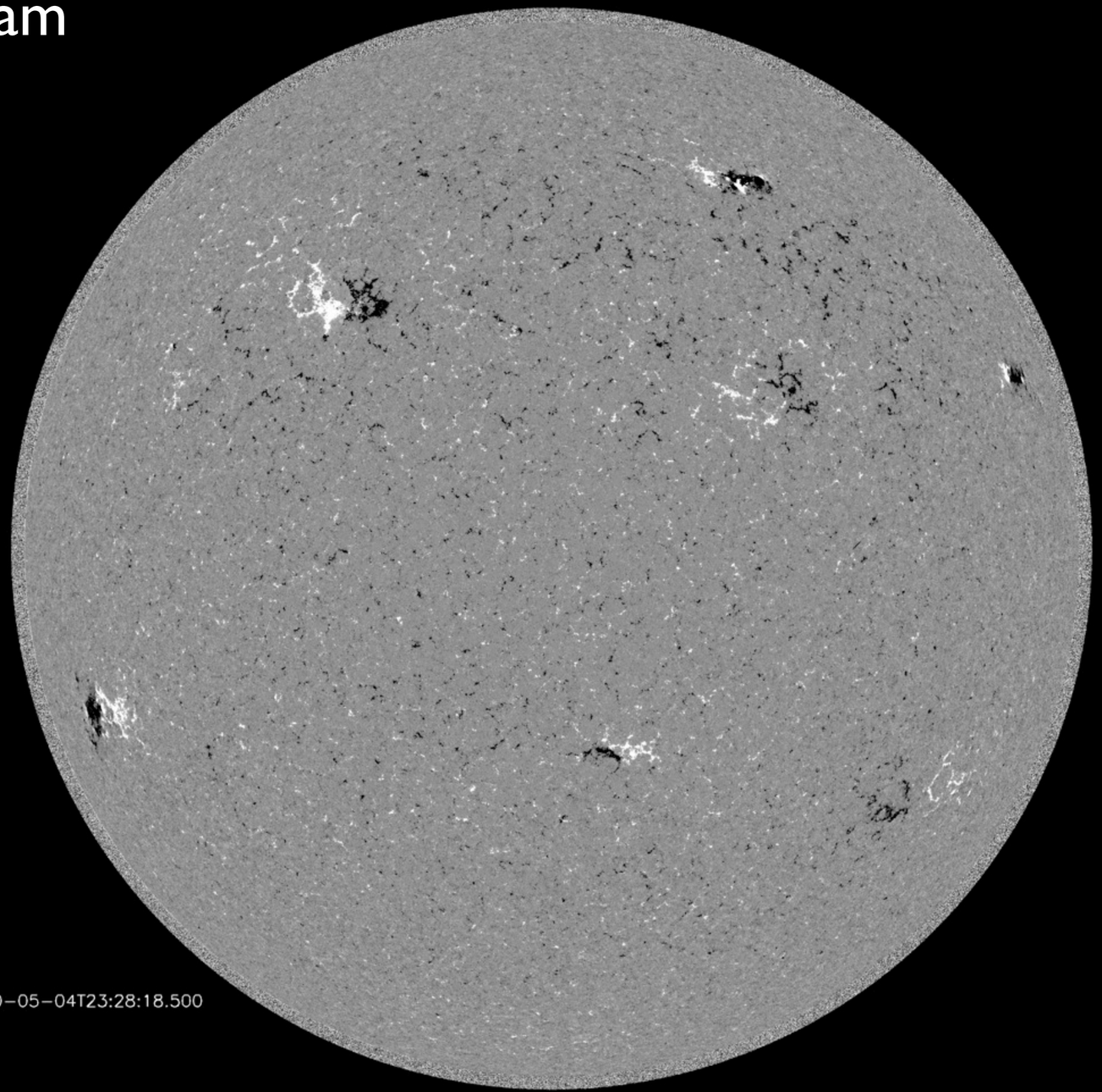
Fe XVI 335Å
~2,200,000 K



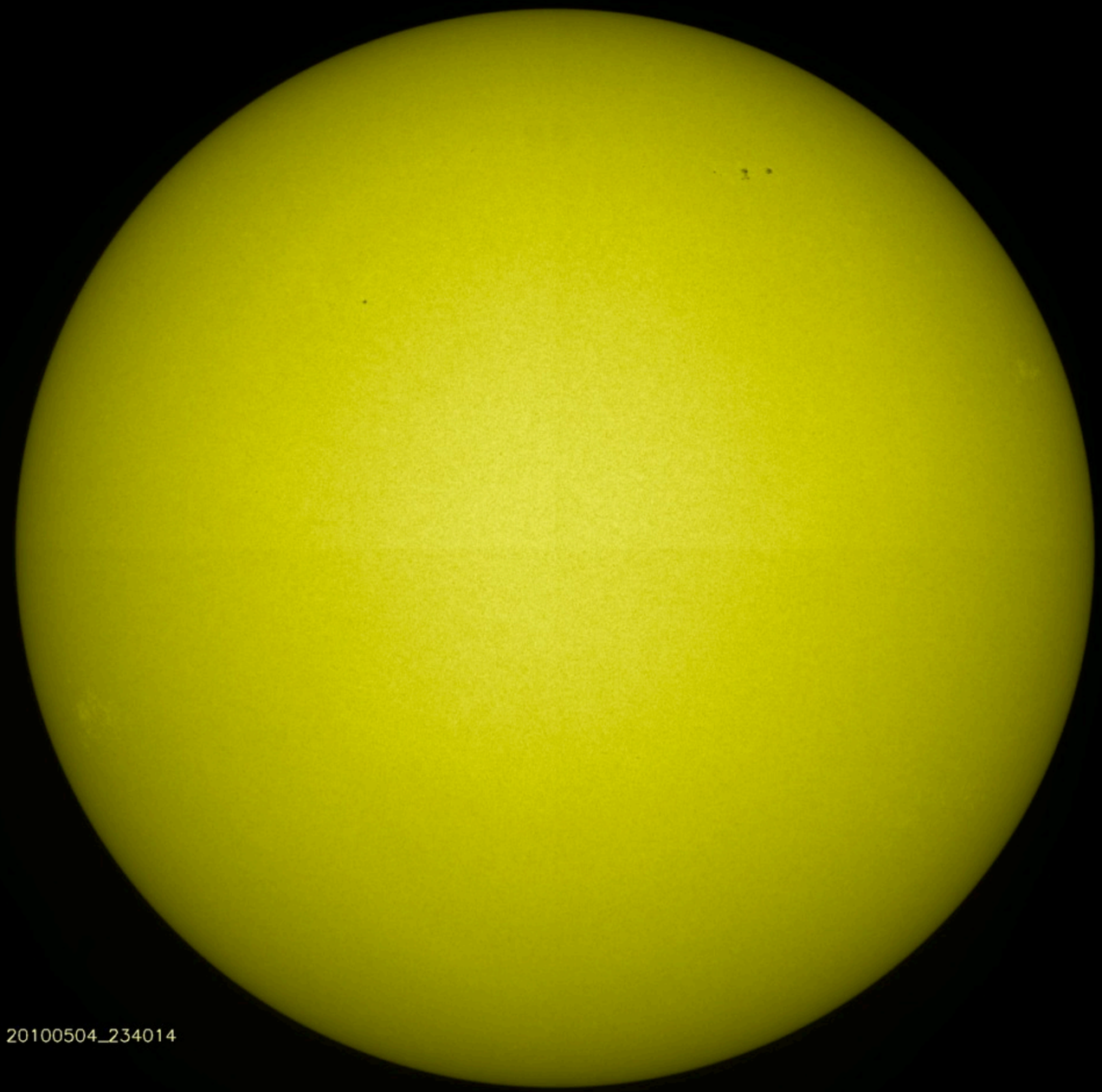

Fe XVIII 94Å
~7,000,000 K
SDO/AIA- 94 20100504_234451

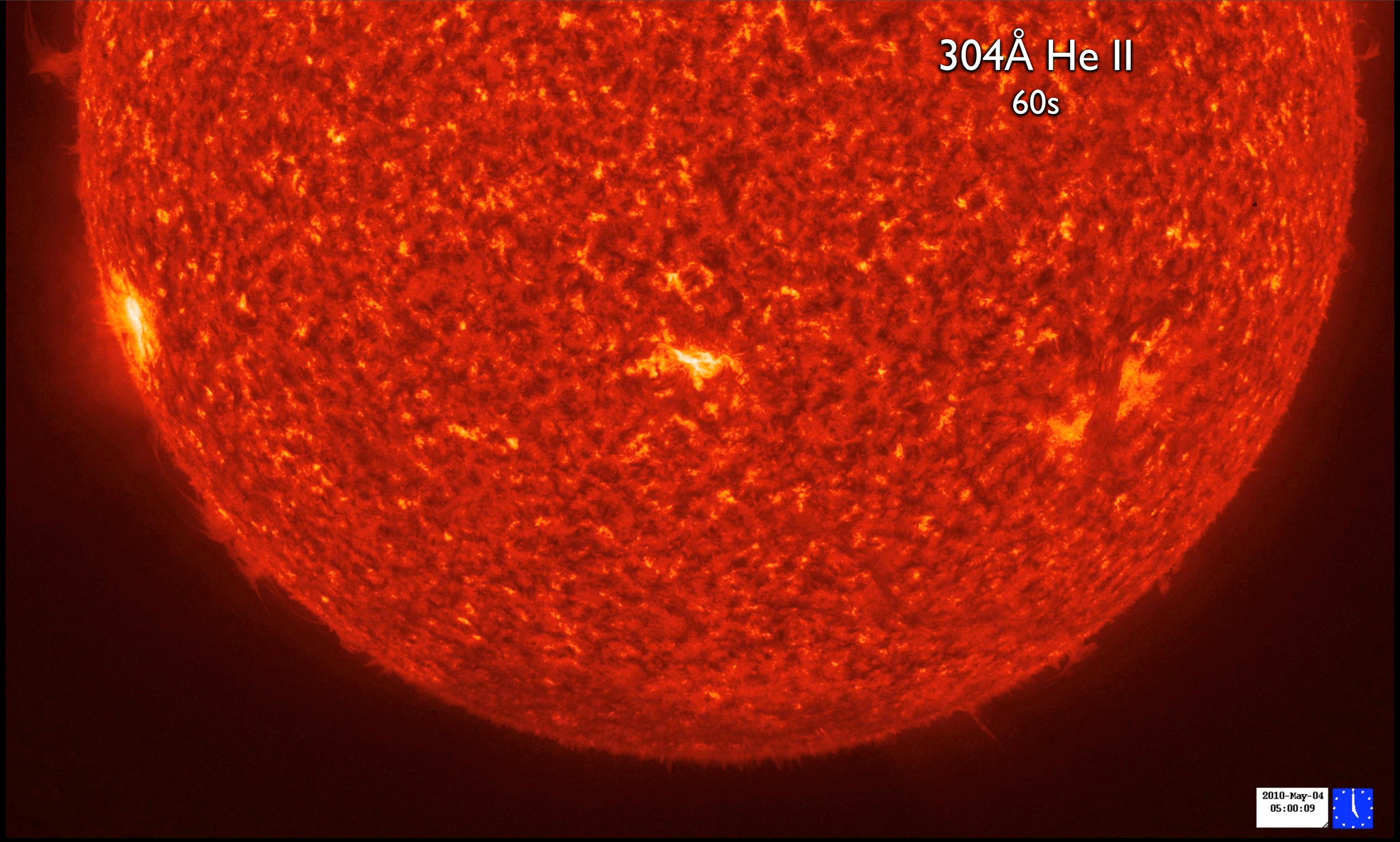

Composite
Fe IX, XII, XIV
1 to 2.5 MK
Blue to Red
SDO/AIA- 211 20100504_234456

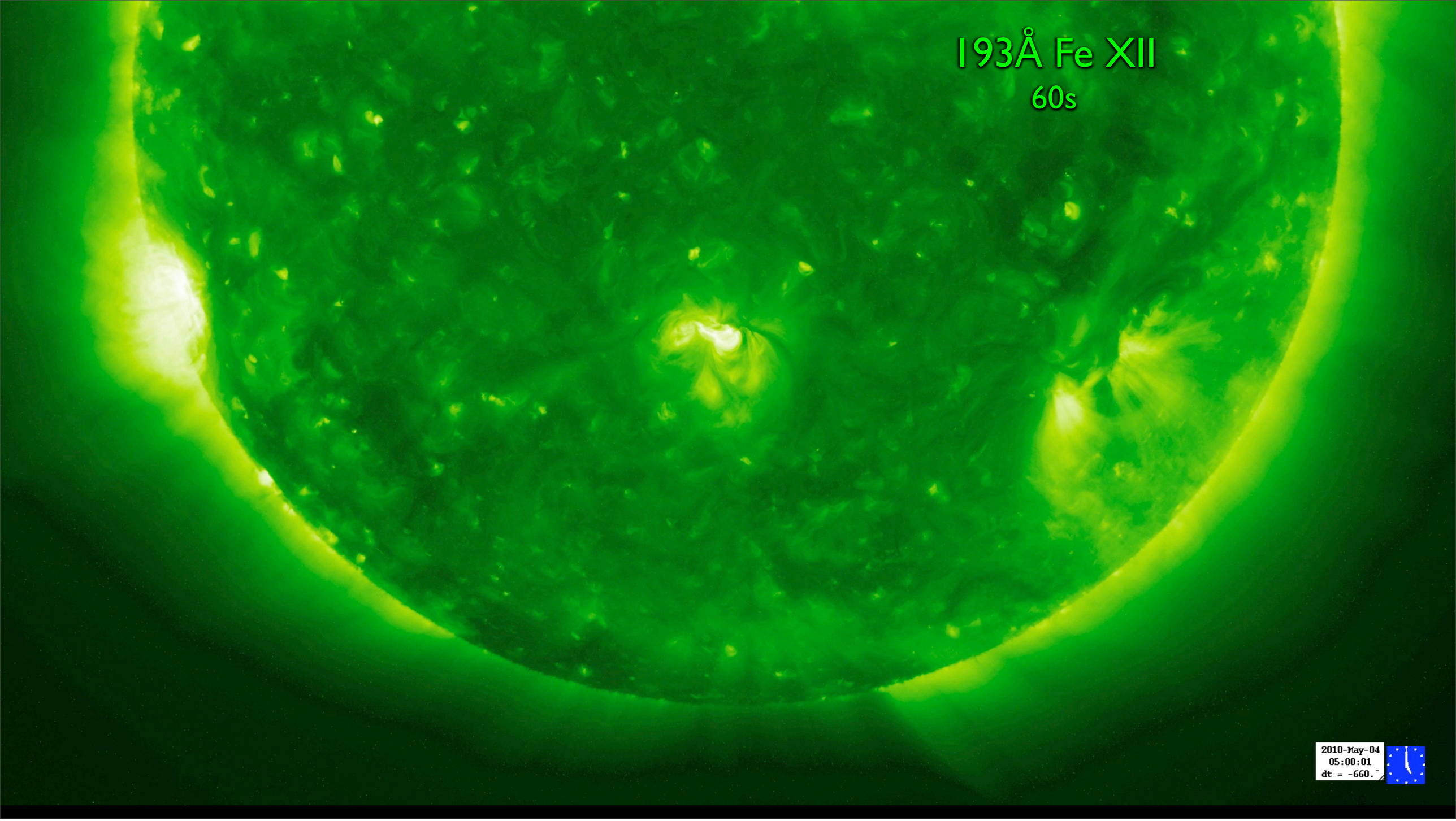
Surface Magnetogram

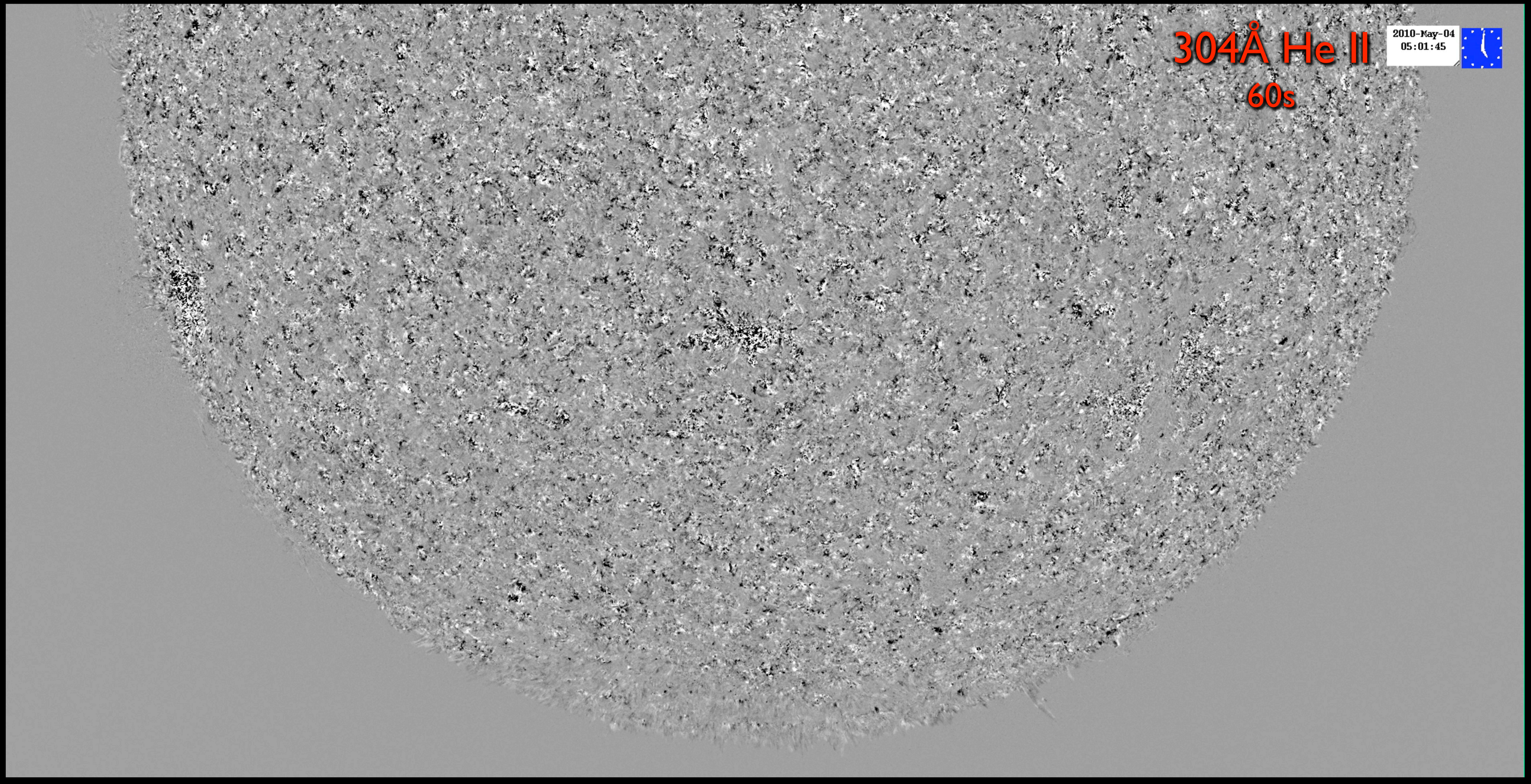


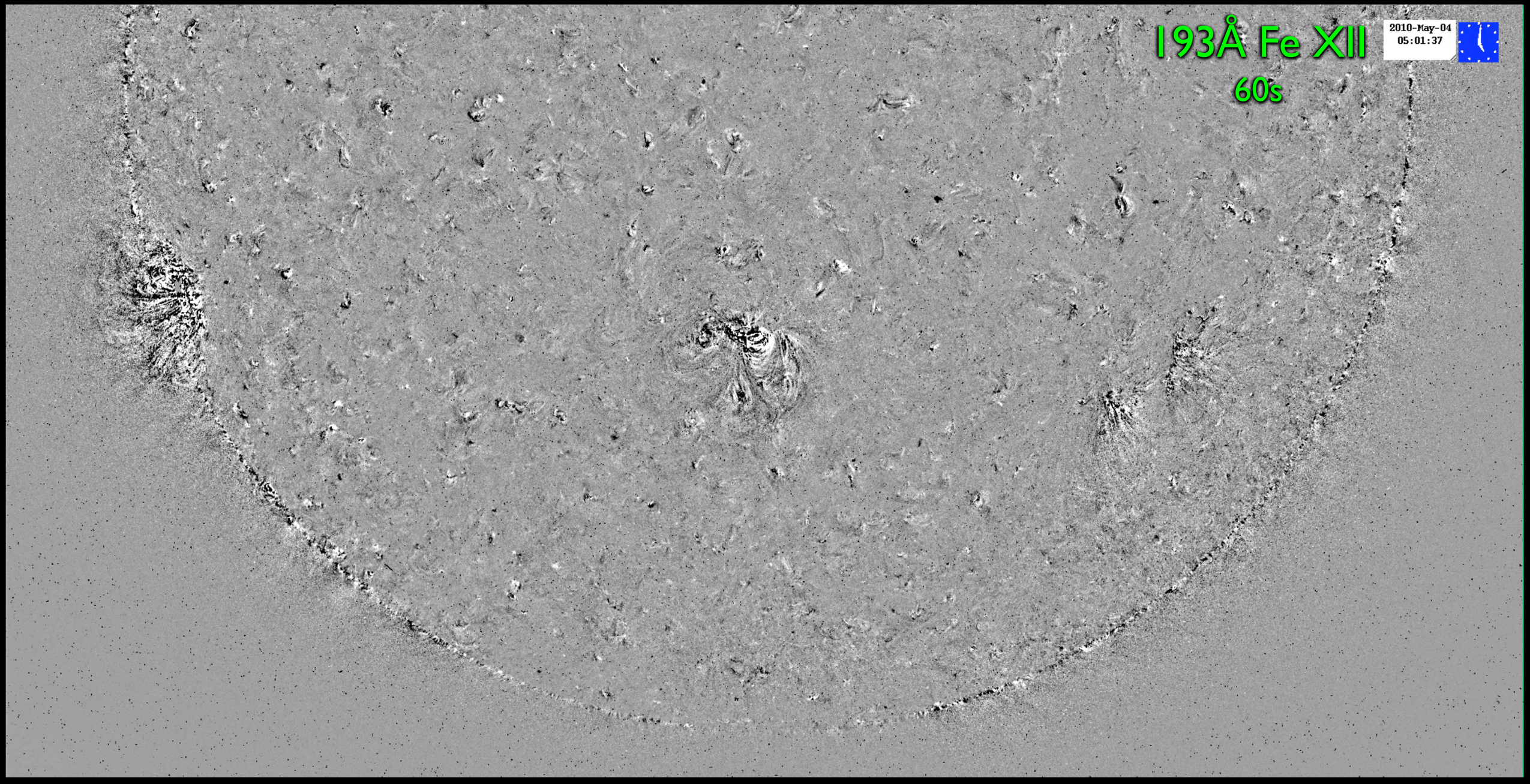
Visible Surface
5850 K

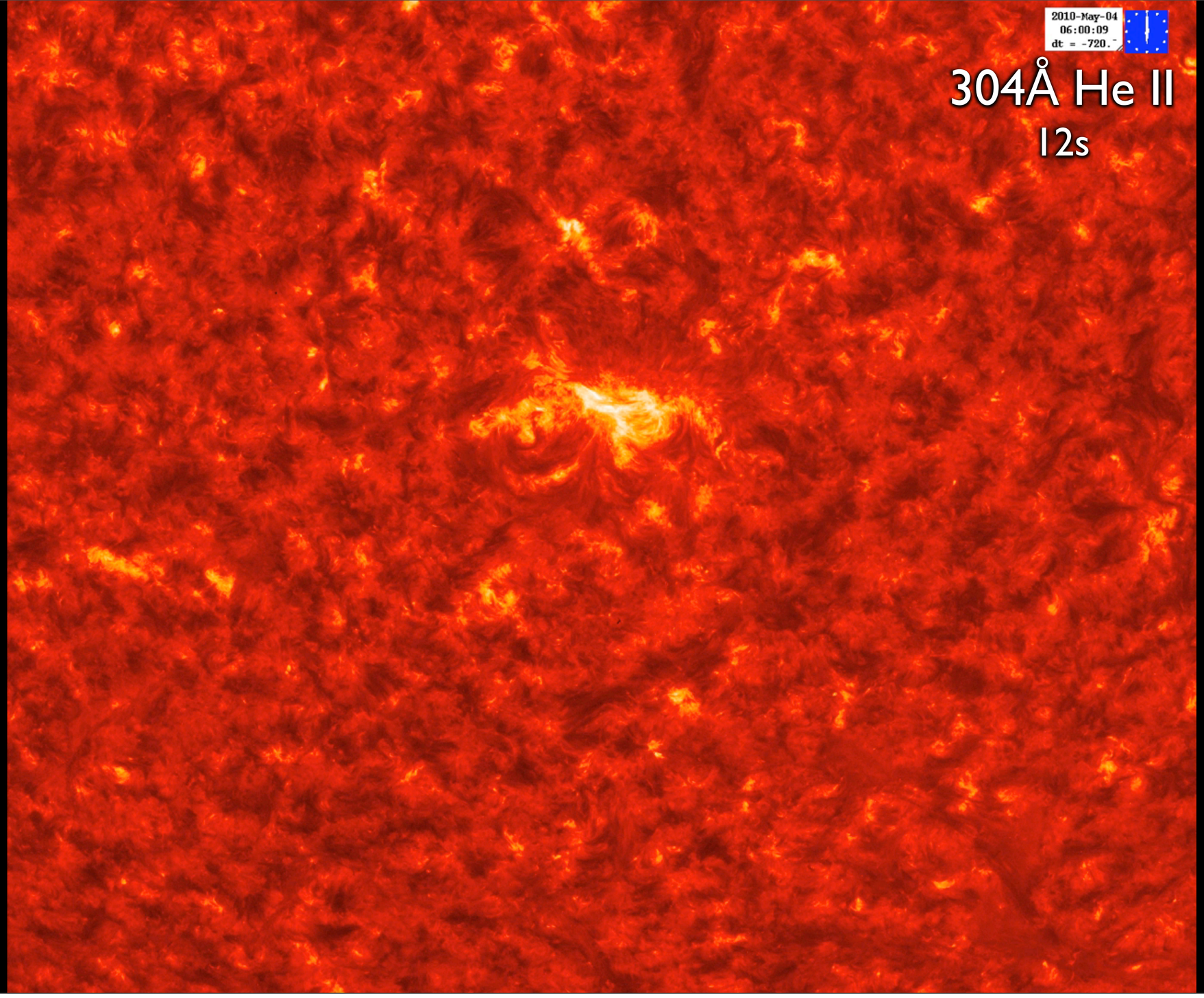



304Å He II
60s
2010-May-04
05:00:09


193Å Fe XII
60s
2010-May-04
05:00:01
dt = -660.

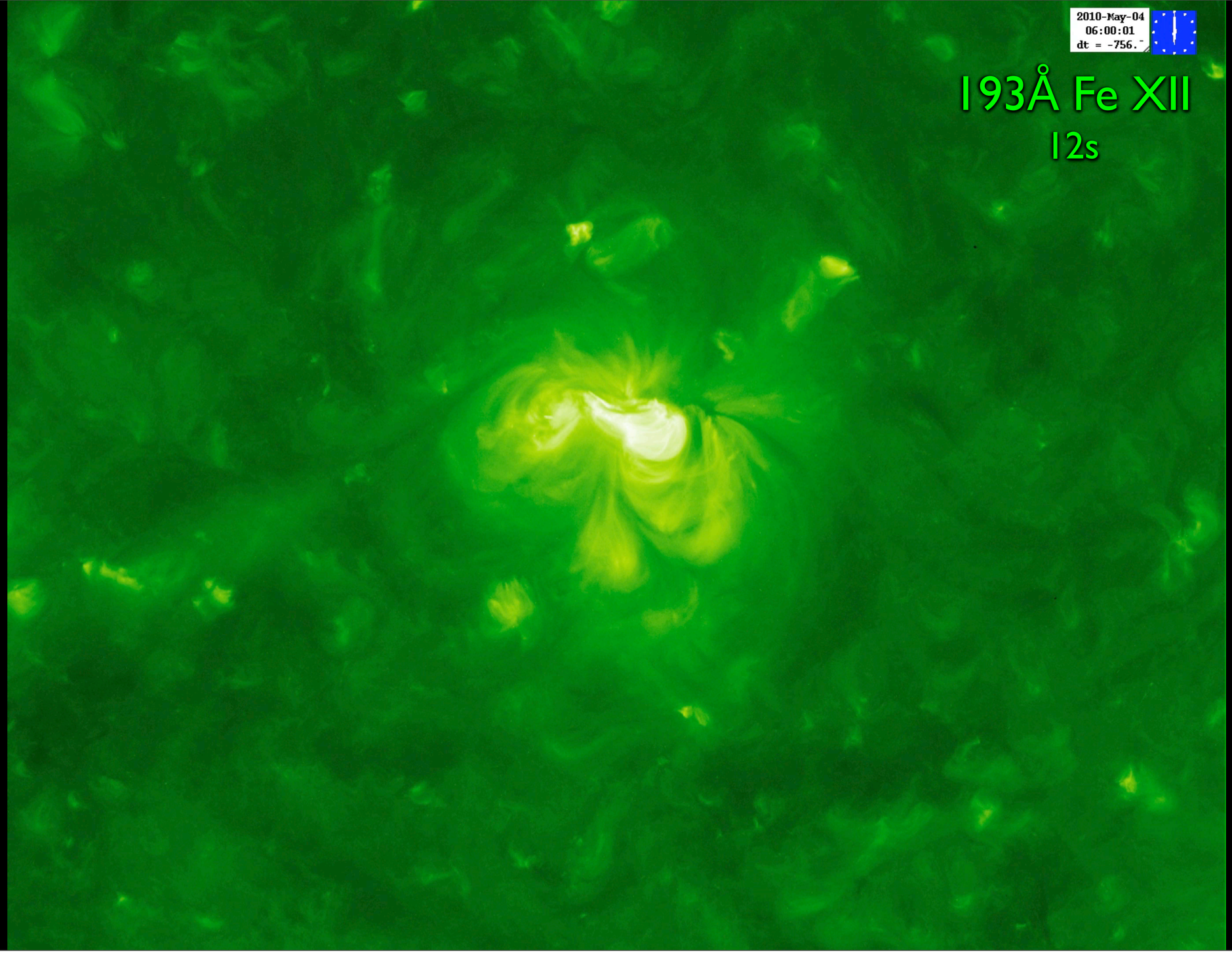

304Å He II
60s
2010-May-04
05:01:45


193Å Fe XII
60s
2010-May-04
05:01:37



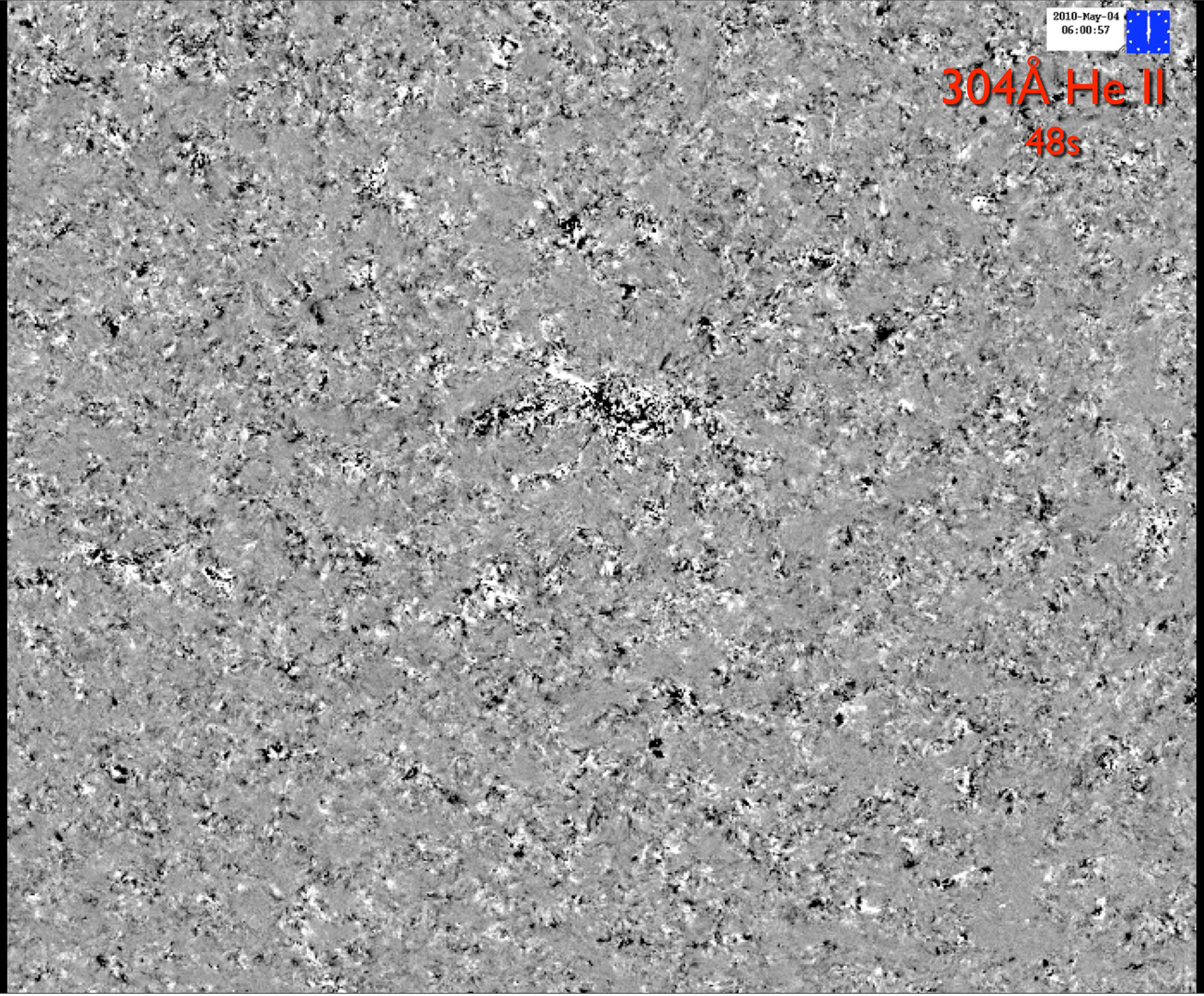
FOV
886x740
arcseconds

Diameter of Earth



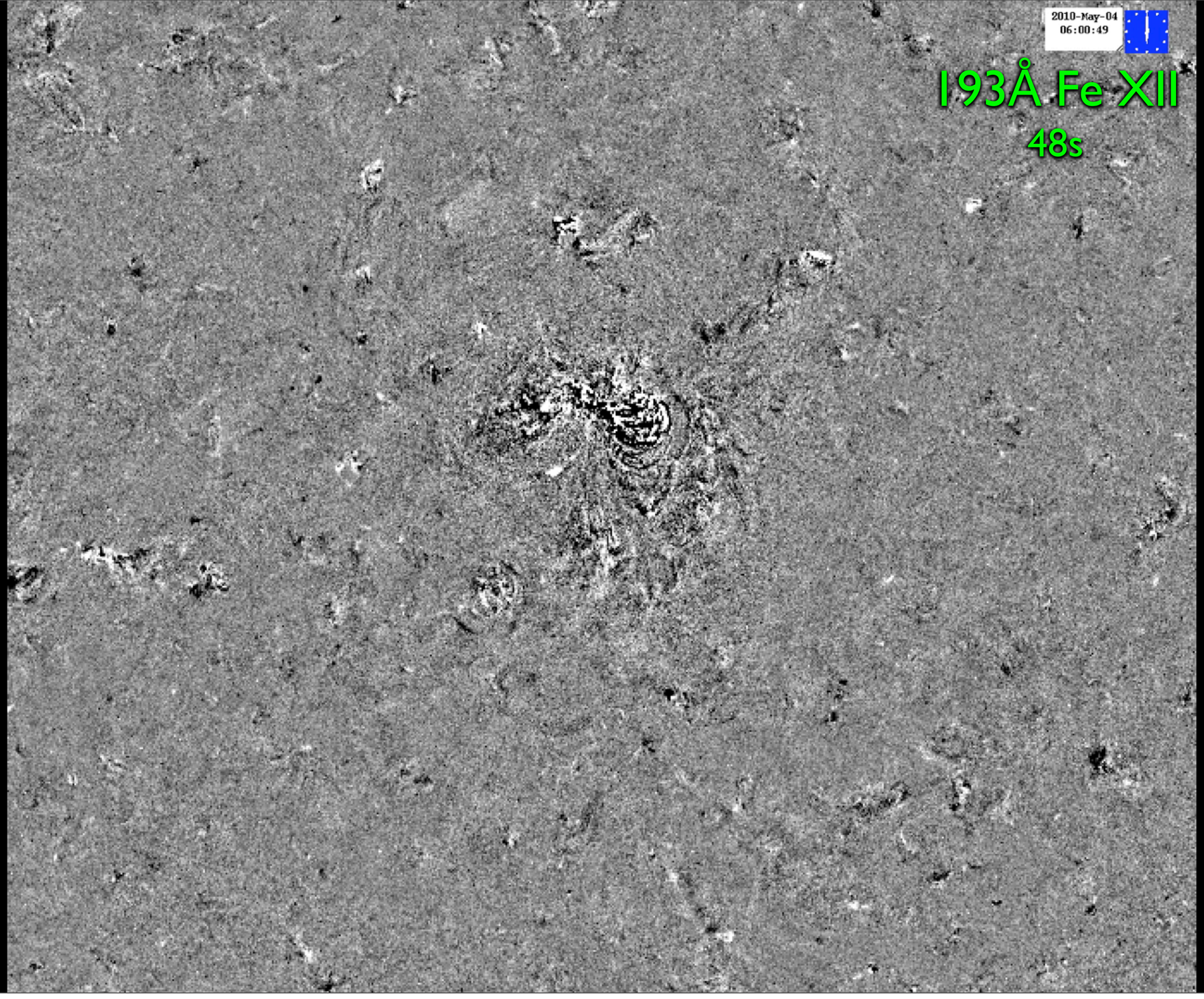
FOV
886x740
arcseconds

Diameter of Earth



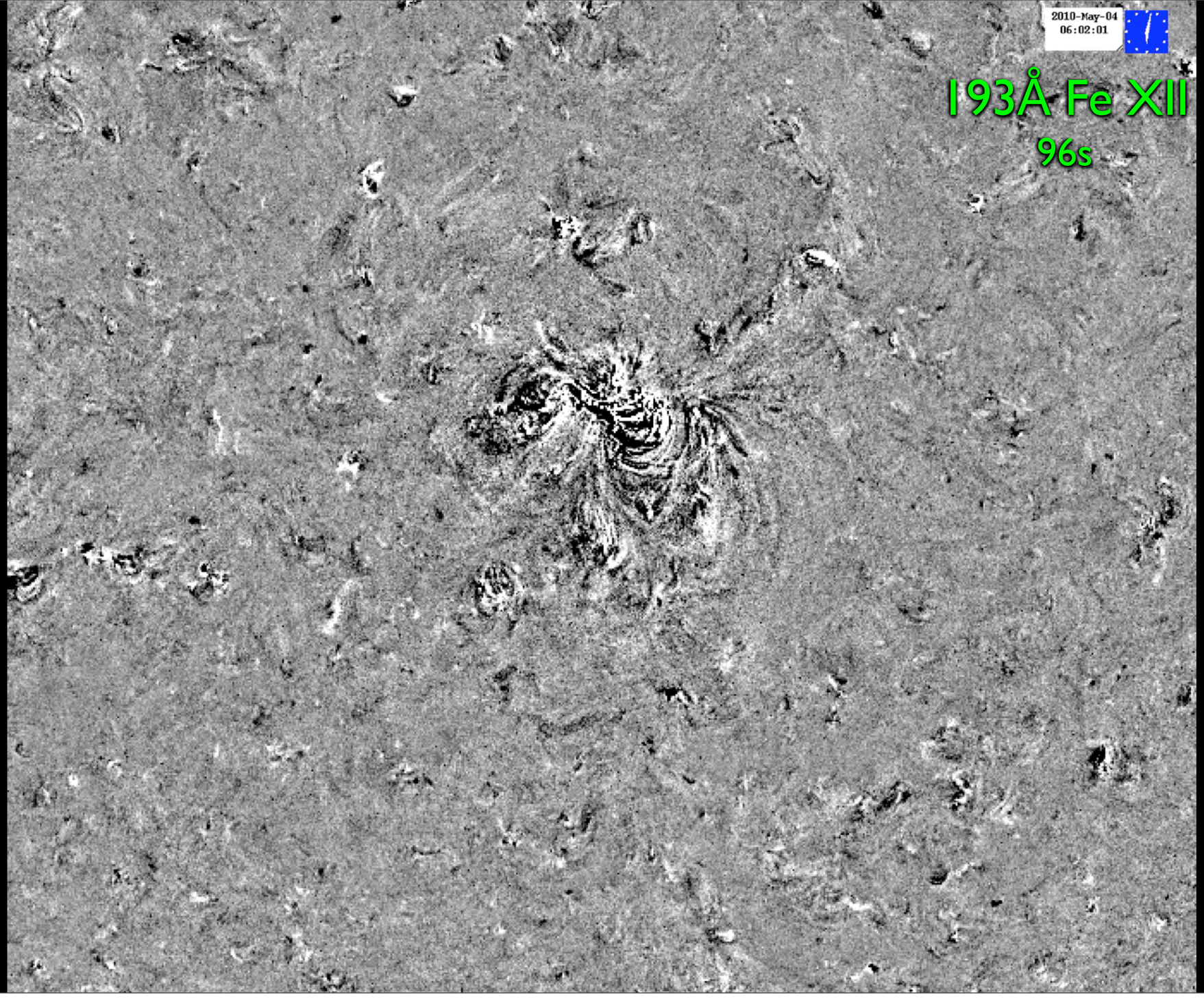
FOV
886x740
arcseconds

Diameter of Earth



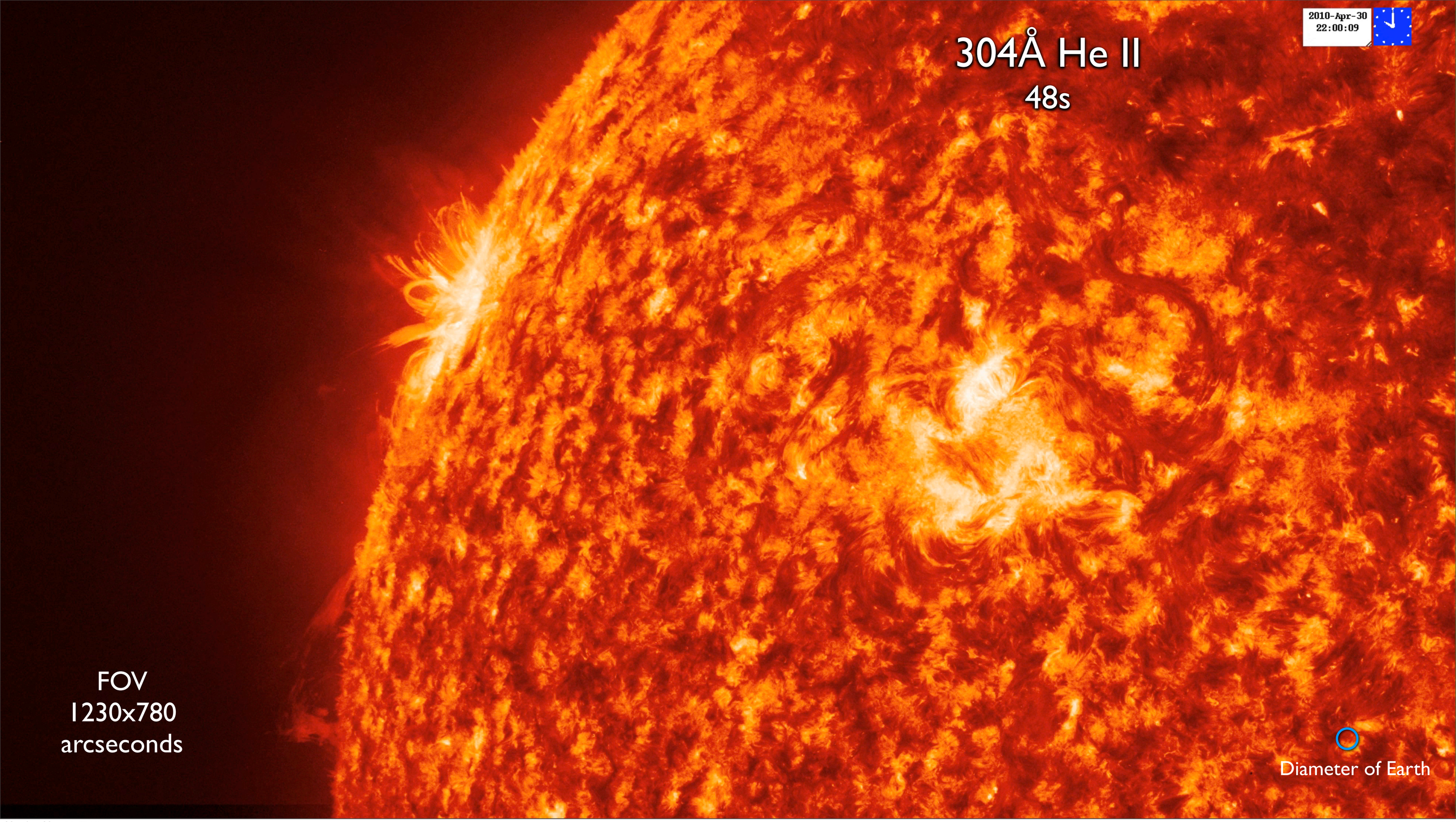
FOV
886x740
arcseconds

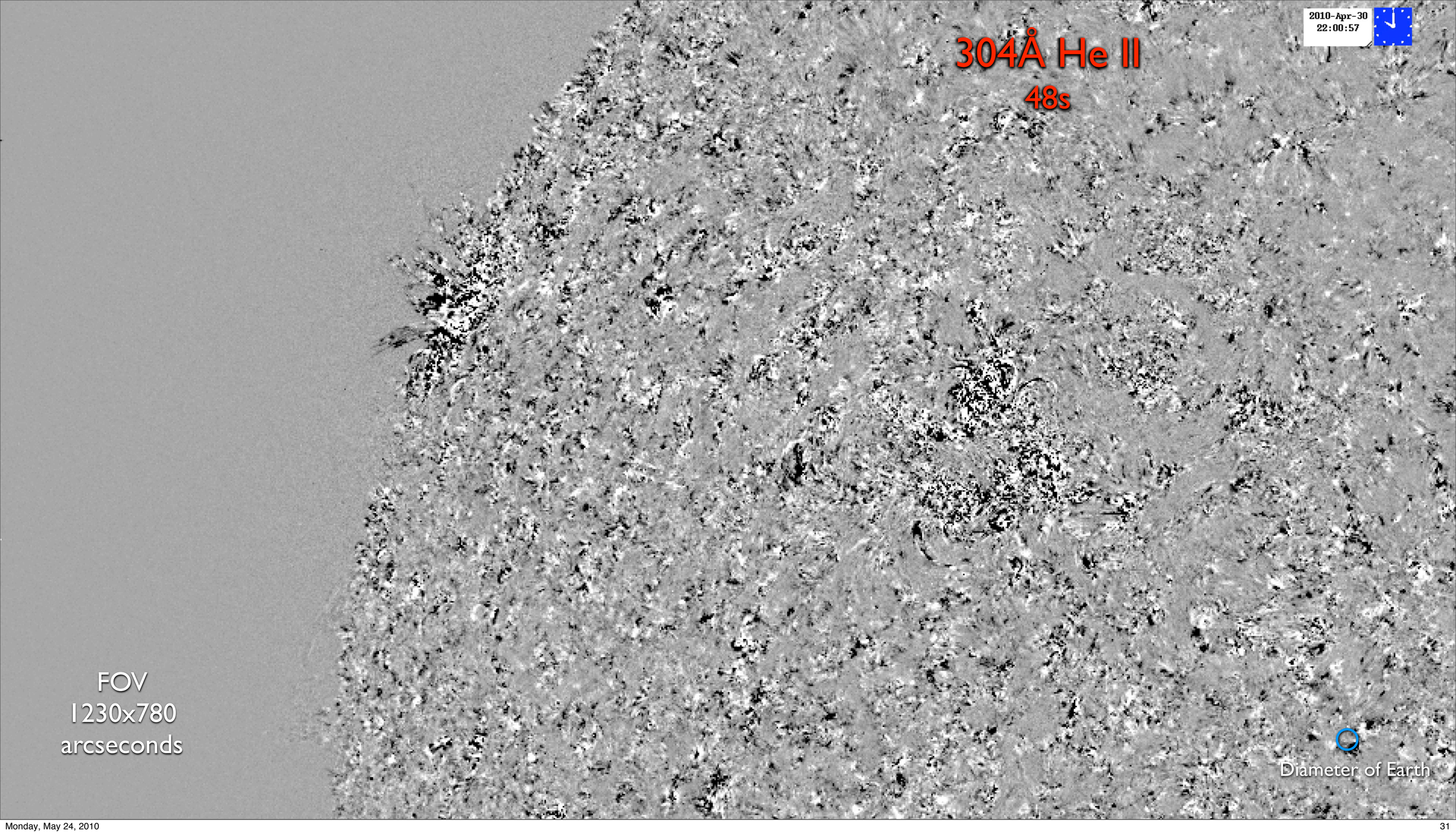
Diameter of Earth

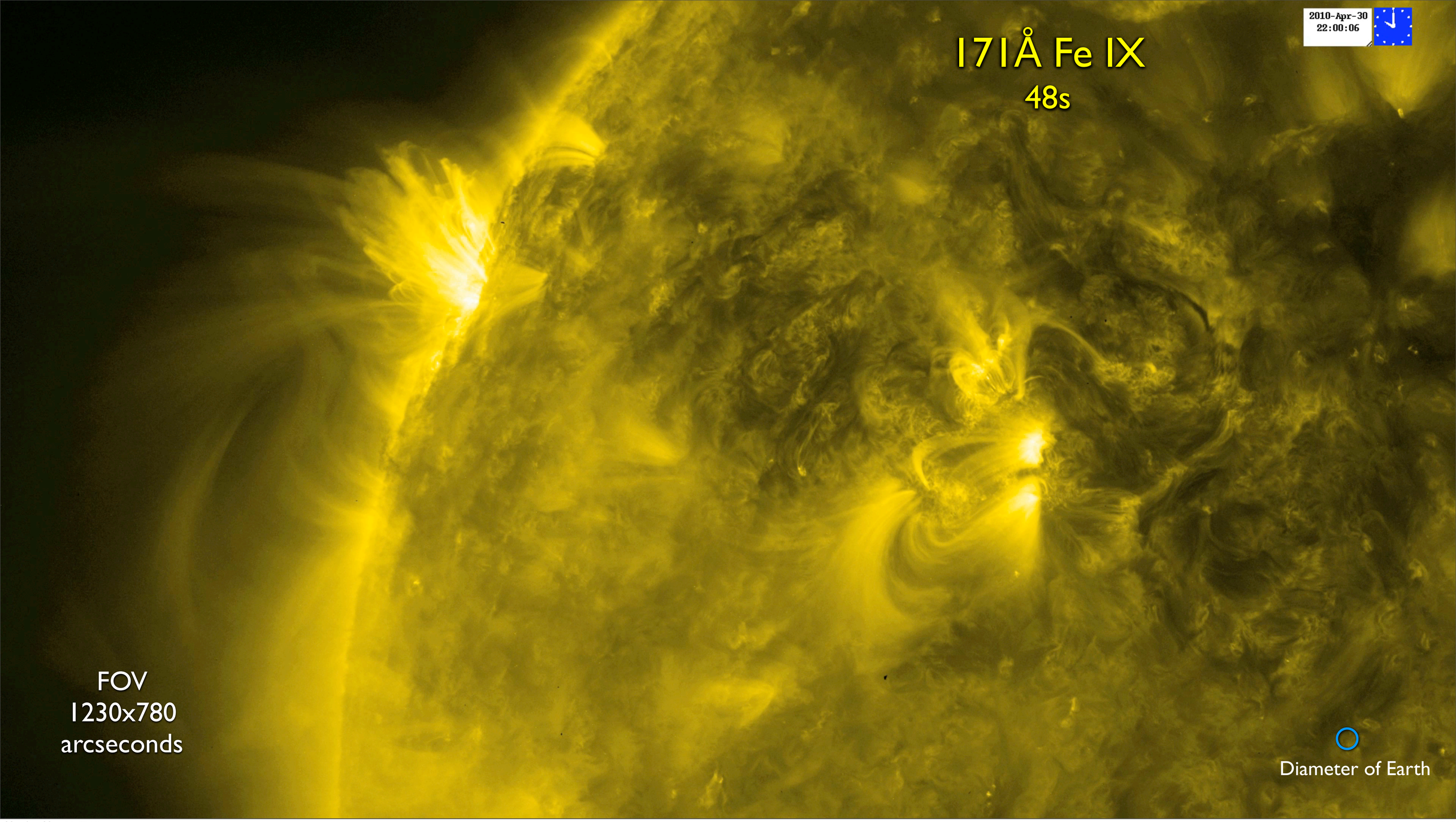


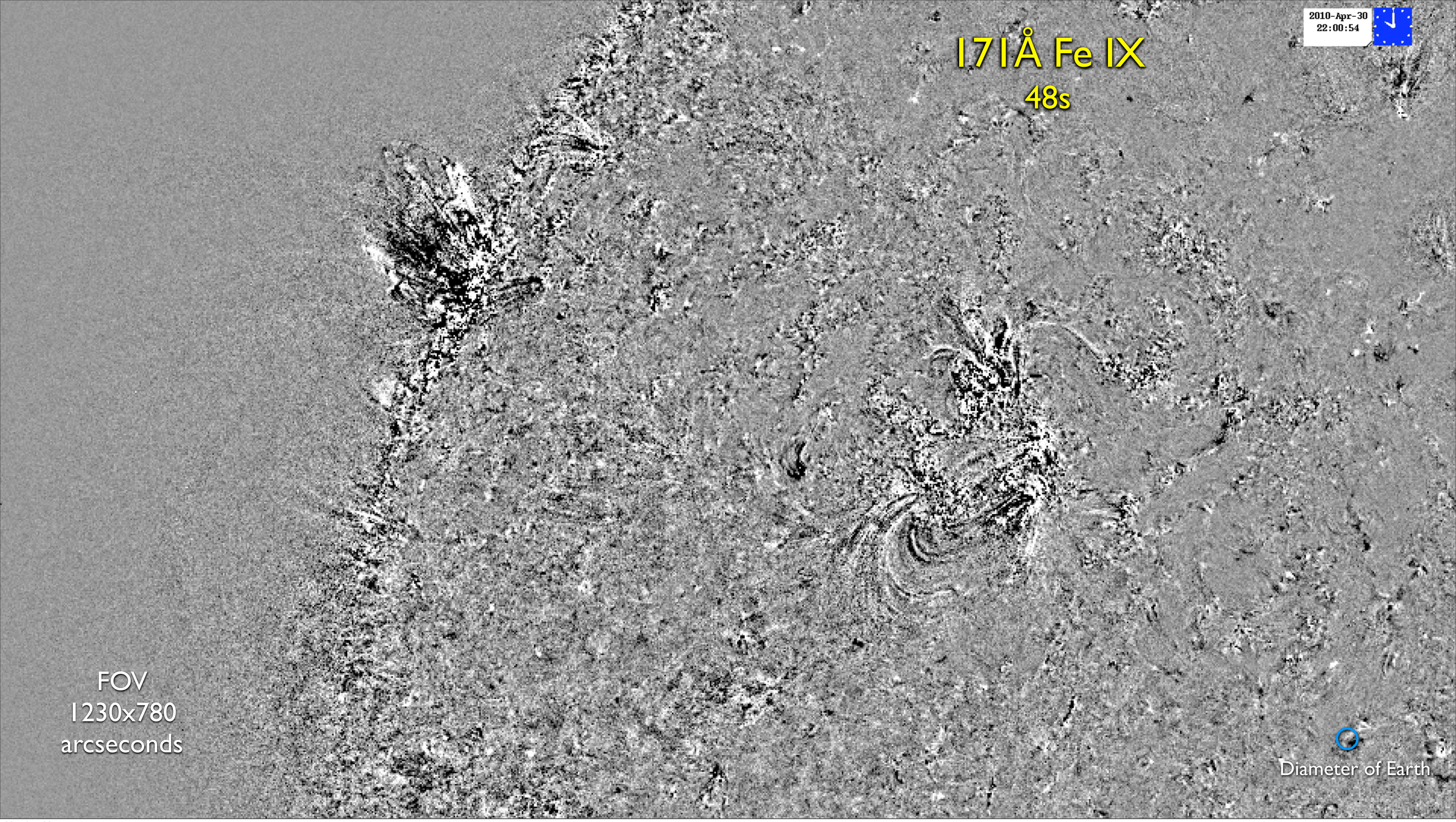
FOV
886x740
arcseconds

Diameter of Earth


2010-Apr-30
22:00:09
304Å He II
48s
FOV
1230x780
arcseconds
Diameter of Earth


2010-Apr-30
22:00:57
304Å He II
48s
FOV
1230x780
arcseconds
Diameter of Earth


2010-Apr-30
22:00:06
171Å Fe IX
48s
FOV
1230x780
arcseconds
Diameter of Earth


171Å Fe IX
48s
2010-Apr-30
22:00:54
FOV
1230x780
arcseconds
Diameter of Earth