SIDC Space Weather briefing

16 – 22 July 2018

Jasmina Magdalenic & SIDC forecaster team

Solar Influences
Data analysis Centre
www.sidc.be



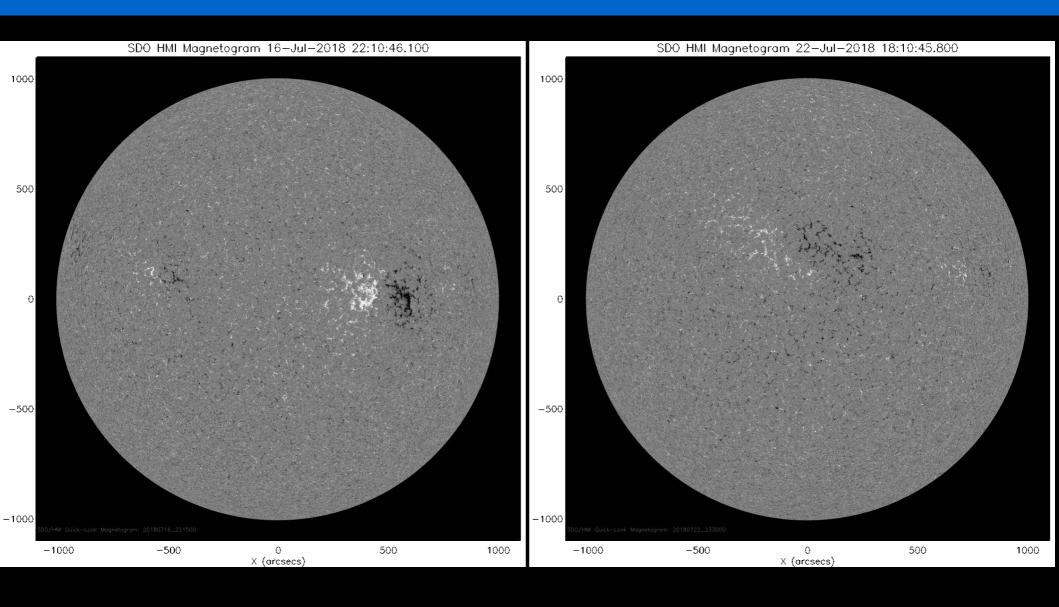
Royal Observatory of Belgium

Summary Report

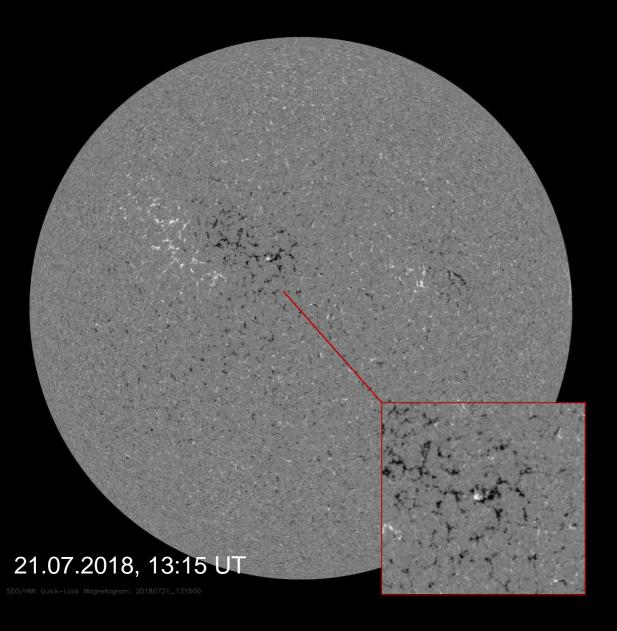
Active Regions	NOAA AR 2716 (July 22)
Flaring	No flares
Wide CMEs	No
Large Filaments eruptions	No
Proton Events	No

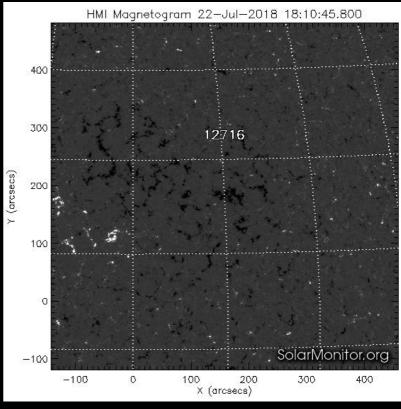
SW conditions	Max solar wind speed: 580 km/s
Coronal Holes	• Equatorial coronal hole reached central meridian on July 21
Shocks	No.
ICME	No?
Kp index	NOAA Kp=4 & Dourbes K=3

Solar active region evolution



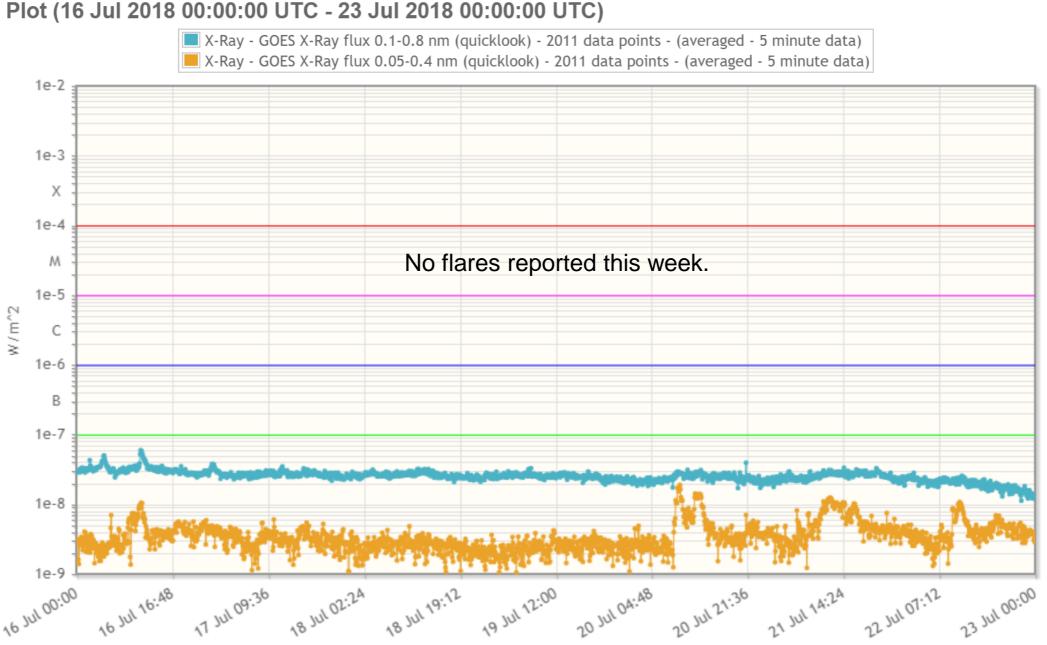
Solar active region evolution





Solar X-ray flux and flaring





Date (16 Jul 2018 00:00:00 UTC - 23 Jul 2018 00:00:00 UTC)

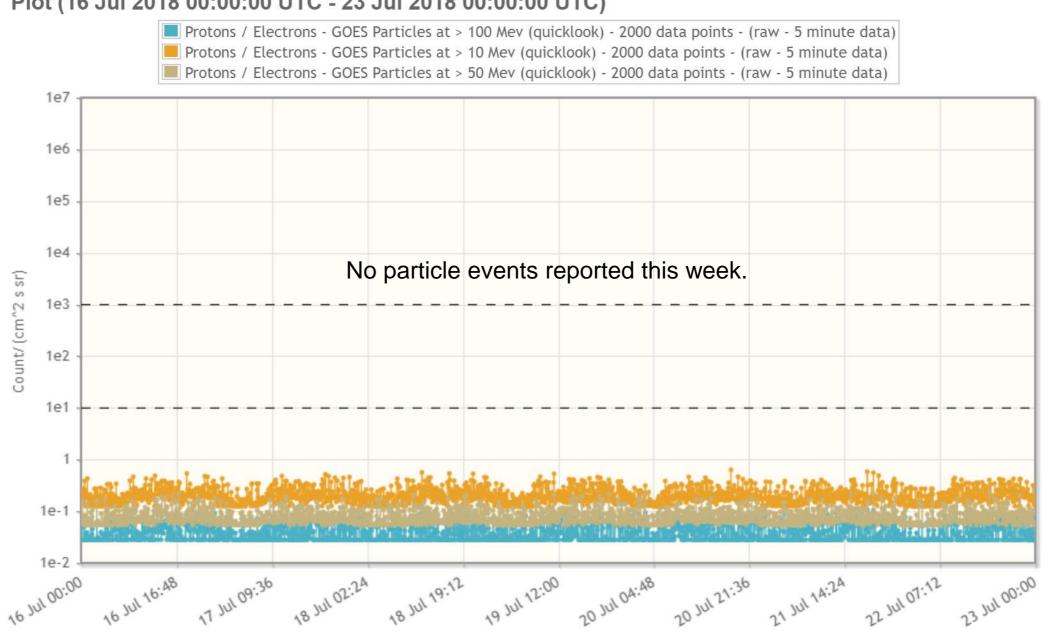
16:00 07/22 13:36 07/22 10:12 07/22 07:12 07/22 04:24 07/22 01:25 07/22 21:36 07/21 18:24 07/21 15:24 07/21 11:48 07/21 08:36 07/21 05:36 07/21 02:24 07/21 22:36 07/20 19:24 07/20 16:24 07/20 13:30 07/20 10:24 07/20 07:12 07/20 02:48 07/20 22:36 07/19 19:12 07/19 16:00 07/1<u>9</u> 12:24 07/19 09:36 07/19 06:48 07/19 03:36 07/19 00:12 07/19 20:24 07/18 17:36 07/18 14:24 07/18 11:12 07/18 08:00 07/18 05:36 07/18 02:36 07/18 23:24 07/17 19:36 07/17 16:48 07/17 13:36 07/17 10:12 07/17 07:00 07/17 04:12 07/17 00:48 07/17 21:36 07/16 18:36 07/16 15:48 07/16 11:48 07/16 08:48 07/16 06:12 07/16 00:00 07/16

CMEs detected by Cactus

(Not a CME)

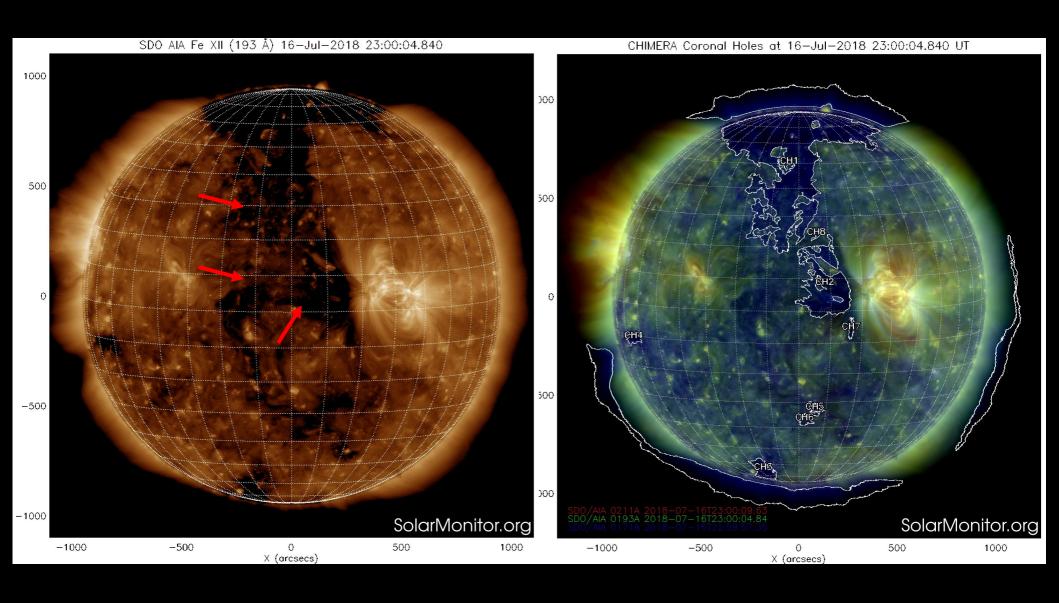
Energetic particles

Plot (16 Jul 2018 00:00:00 UTC - 23 Jul 2018 00:00:00 UTC)

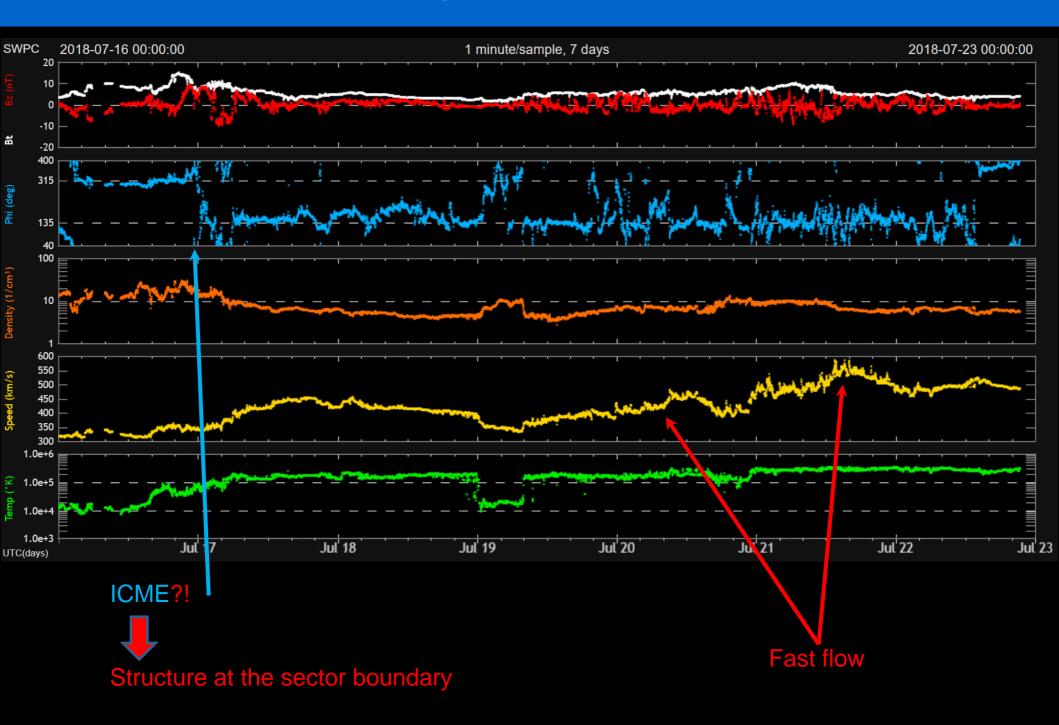


Date (16 Jul 2018 00:00:00 UTC - 23 Jul 2018 00:00:00 UTC)

Solar wind

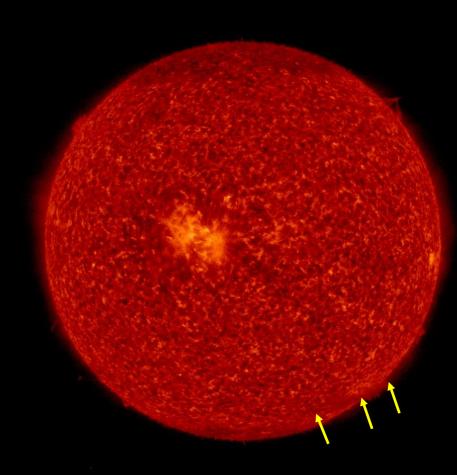


Solar wind



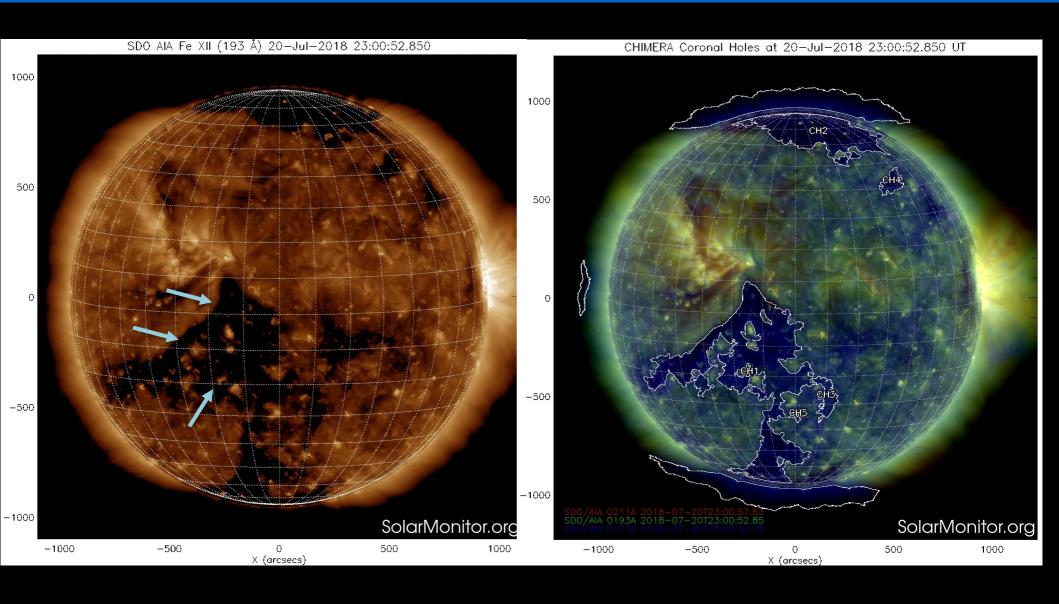
ICME?!



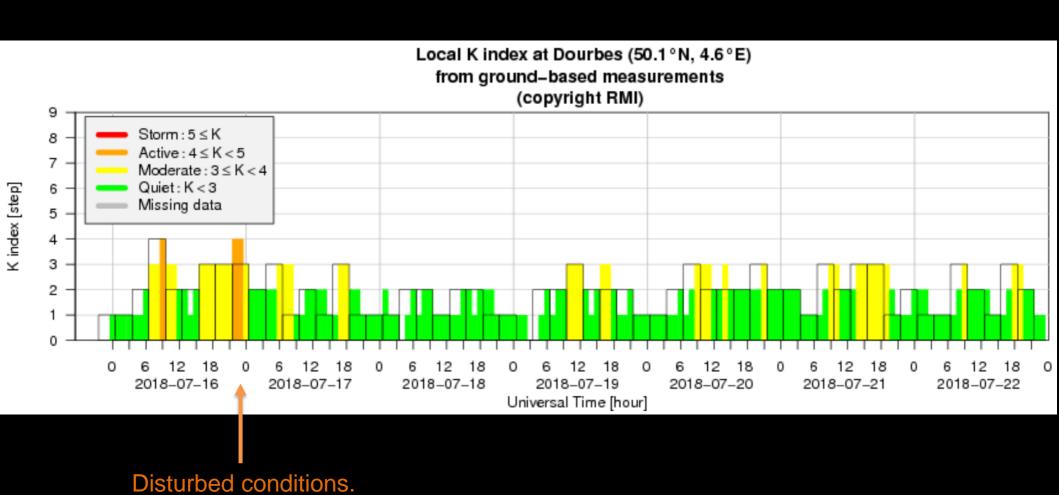


SDO/AIA 304 2018-07-13 18:44:18 UT

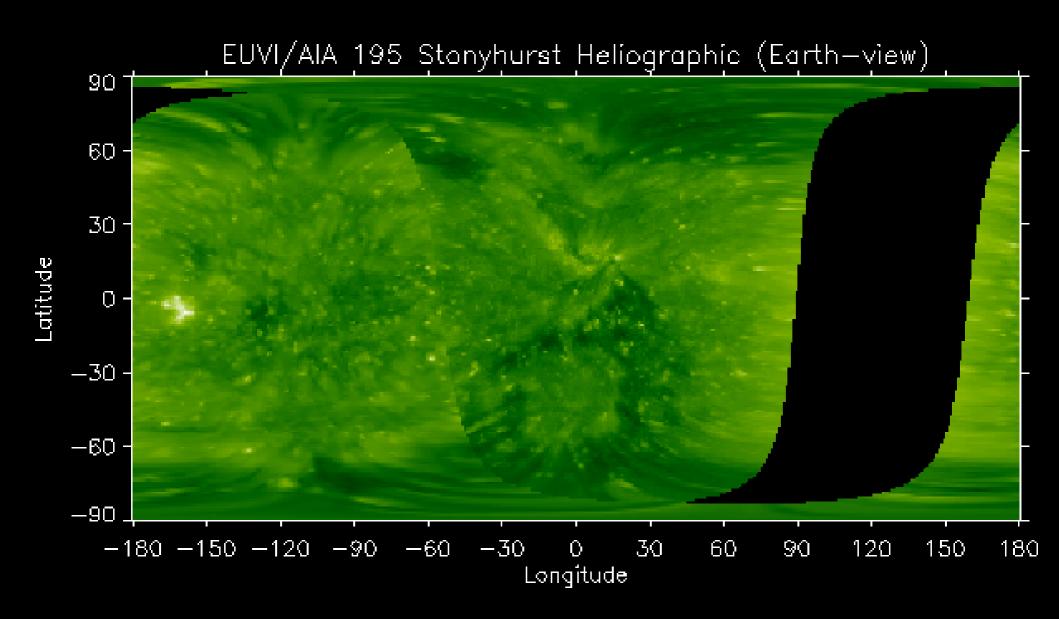
Solar wind



Geomagnetism



Outlook



Observation date: 2018/07/23 07:15:30