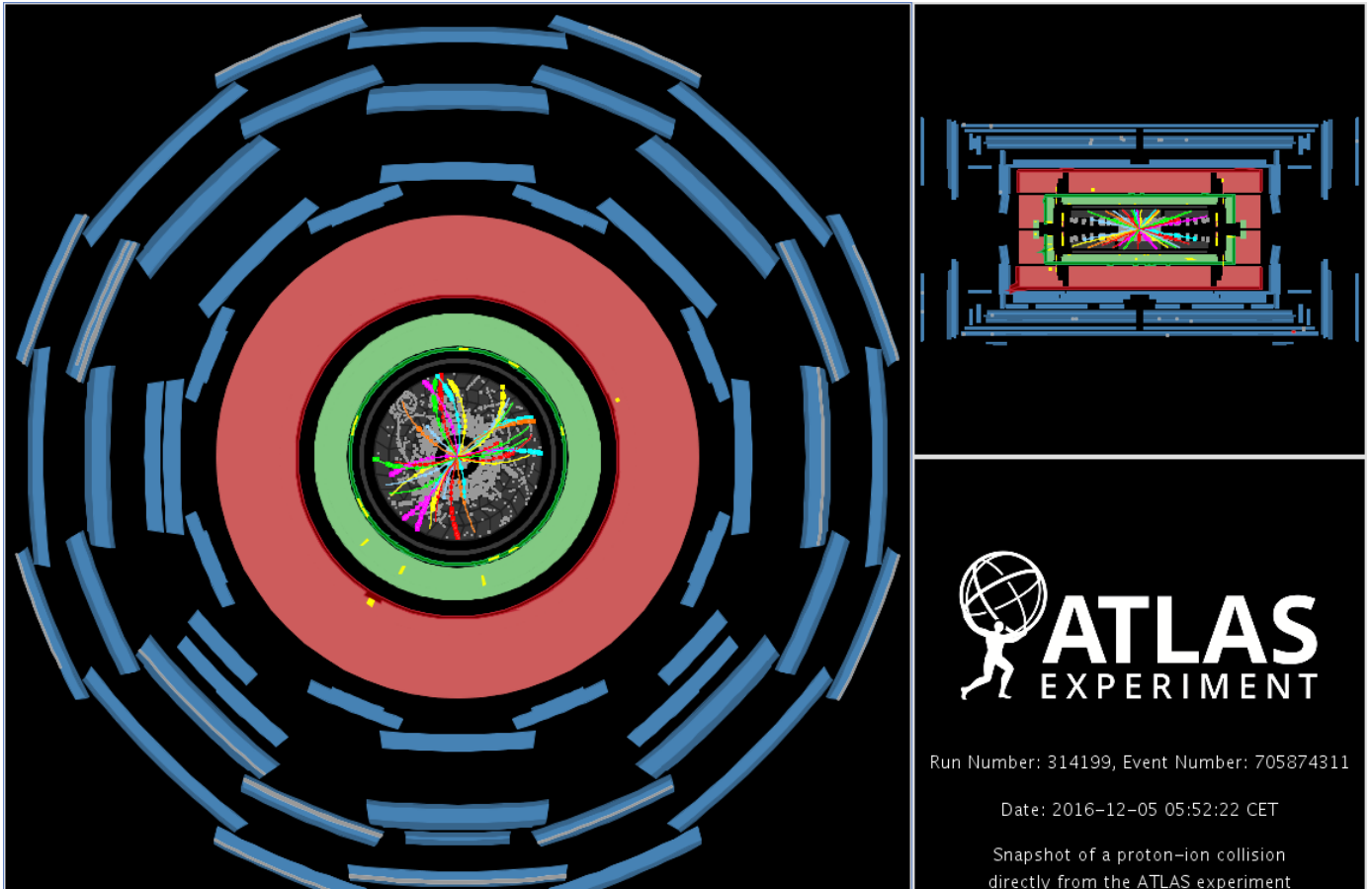




Cern and the Sun



ATLAS LIVE

CERN

The European Organization for Nuclear Research

(French: Organisation européenne pour la recherche nucléaire),

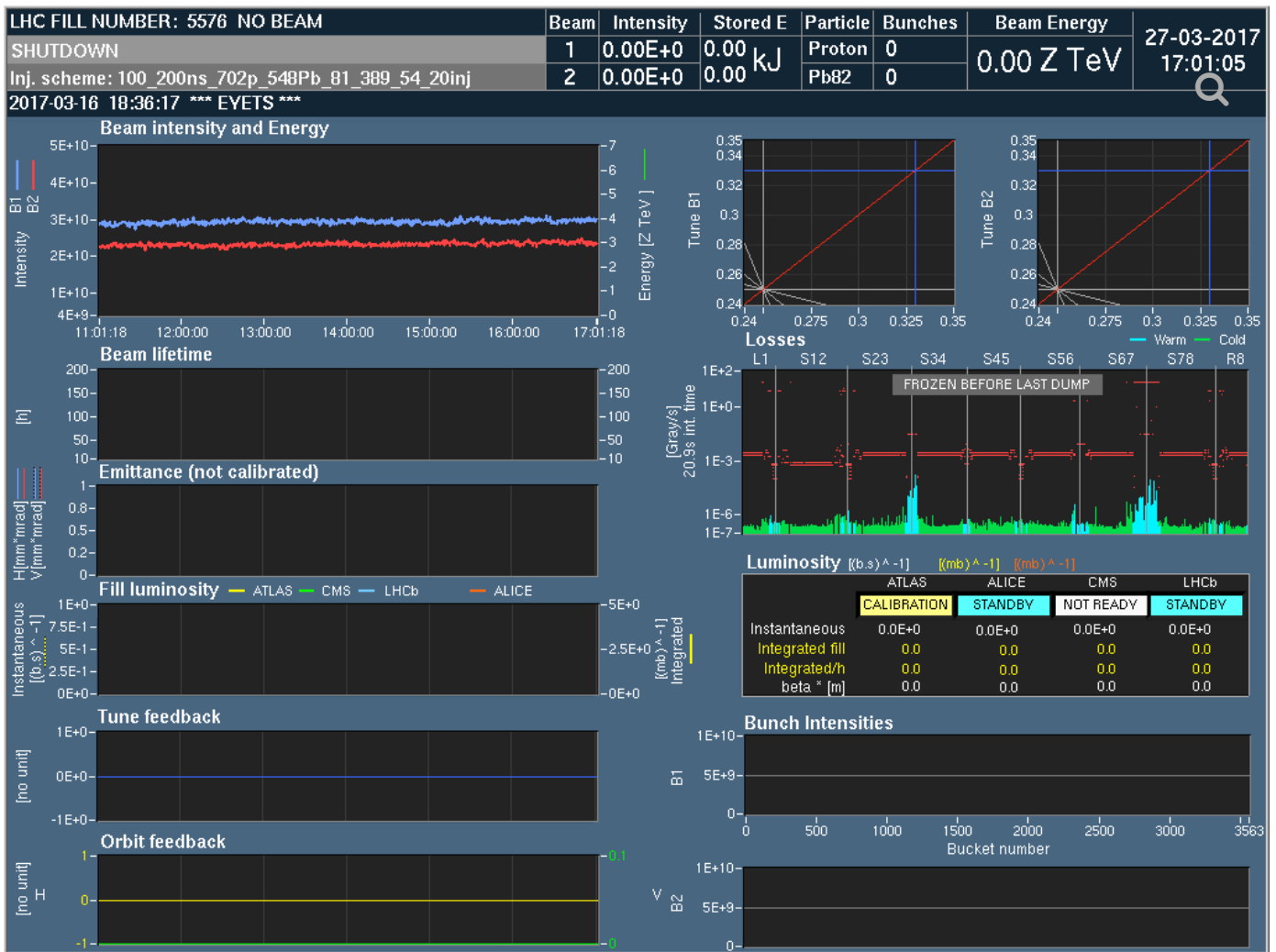
known as CERN (/ˈsɜːrn/; French pronunciation: [sɛʁn]; derived from the name "Conseil Européen pour la Recherche Nucléaire"; see History), is a European research organization that operates the largest particle physics laboratory in the world. Established in 1954, the organization is based in a northwest suburb of Geneva on the Franco–Swiss border, (46°14'3"N 6°3'19"E) and has 22 member states. Israel is the only non-European country granted full membership.

CERN's main function is to provide the particle accelerators and other infrastructure needed for high-energy physics research – as a result, numerous experiments have been constructed at CERN as a result of international collaborations.

CERN is also the birthplace of the World Wide Web. The main site at Meyrin has a large computer facility containing powerful data processing facilities, primarily for experimental-data analysis; because of the need to make these facilities available to researchers elsewhere, it has historically been a major wide area network hub.

Cern Live Feed

LHC Page1	Fill: 5576	E: 7000 GeV	t(SB): 00:00:00	27-03-17 17:01:12	
SHUTDOWN: NO BEAM					
<p>Comments (15-Mar-2017 12:36:32)</p> <p style="text-align: center;">*** EYETS ***</p>					
			BIS status and SMP flags	B1 B2	
			Link Status of Beam Permits	false false	
			Global Beam Permit	false false	
			Setup Beam	false false	
			Beam Presence	false false	
			Moveable Devices Allowed In	false false	
			Stable Beams	false false	
AFS: 100_200ns_702p_548Pb_81_389_54_20inj		PM Status B1	ENABLED	PM Status B2	ENABLED

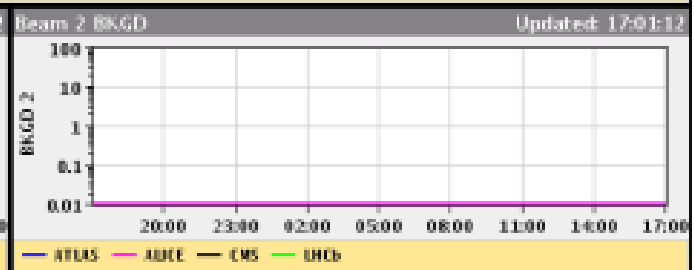
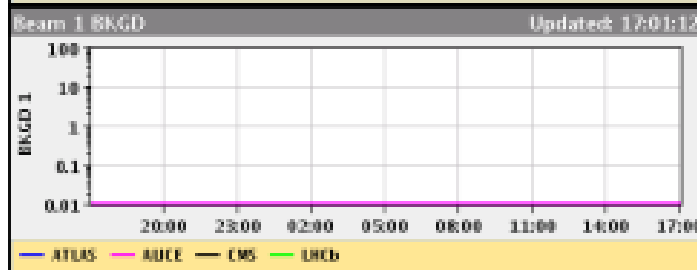
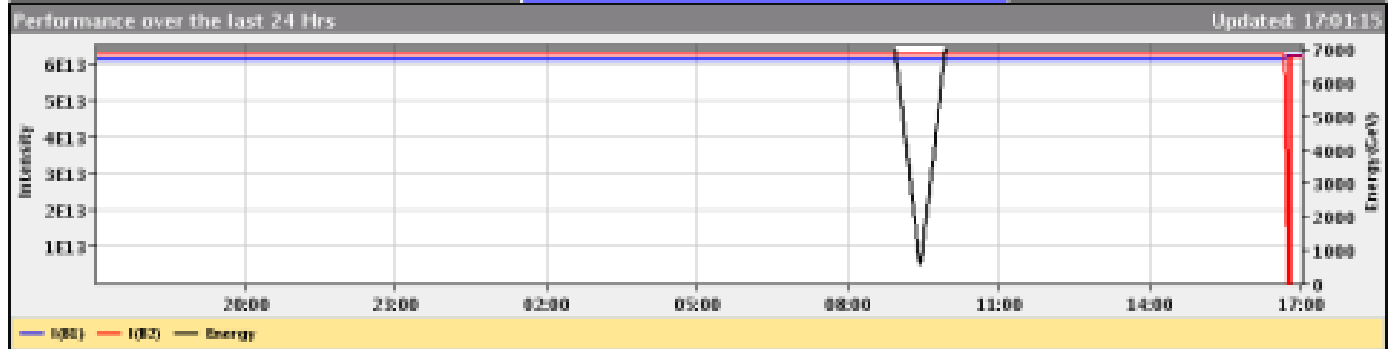


Cern Live

27-Mar-2017 17:01:16 Fill #: 5576 Energy: 7000 GeV I(B1): 6.21e+13 I(B2): 6.16e+13

Experiment Status	ATLAS	ALICE	CMS	LHCb
Instantaneous Lumi [(ub.s) ⁻¹]	-	6.897	-	0.000
BRAN Luminosity [(ub.s) ⁻¹]	0.0	0.0	0.0	0.0
Fill Luminosity [(nb) ⁻¹]	-	0.000	-	0.103
Beam 1 BKGD	-	0.000	-	702.778
Beam 2 BKGD	-	0.000	-	703.044

LHCb VELO Position **IN** Gap: 4.0 mm **NO BEAM** TOTEM: **OFF**





Inscription:

"O Omnipresent, the embodiment of all virtues, the creator of this cosmic universe, the king of dancers, who dances the Ananda Tandava in the twilight, I salute thee." (Source: Verse No. 56, Sivanandalahari by Sri Adi Sankara)

CERN

Flying over ALICE



CERN

CERN: Official communications for CERN people

Human Resources Department: 2016 report on the settlement of disputes and discipline

Introduction The Annual Report under Chapter VI (“Settlement of Disputes and Discipline”) of the Staff Rules and Regulations serves to re. . . [read more](#) Mon, 13 Mar 2017 14:33:13 +0000

115th ACCU meeting

Agenda for the meeting to be held on Tuesday, 7 March 2017 at 9:15 a.m. in Room Georges Charpak (Room F, 60/6-015) Chairperson's rema. . . [read more](#) Tue, 28 Feb 2017 08:44:56 +0000

Taxation in Switzerland

Memorandum concerning the 2016 internal taxation certificate and the 2016 income tax declaration forms issued by the Swiss cantonal tax admini. . . [read more](#) Wed, 15 Feb 2017 08:14:18 +0000

Extension of the pre-retirement programmes

Following a recommendation by the Standing Concertation Committee at its meeting on 31 October 2016 and approval by the Director-General, pleas. . . [read more](#) Mon, 13 Feb 2017 14:09:04 +0000

Joint Advisory Appeals Board



- [5 April | Blood donation](#) March 27, 2017
Anais Schaeffer
- [New number to make external calls from fixed lines – 79999](#) March 27, 2017
This number is available for users occasionally calling outside CERN for professional or personal purposes. It replaces 76111 for this service. In order to use the service, you can call 79999 from any fixed line at CERN (including conference rooms or telephones not belonging to you), follow the instructions and your call will be transferred providing [...]
Anais Schaeffer
- [Maintenance of the CERN telephone exchanges](#) March 27, 2017
Maintenance work will be carried out overnight on the CERN telephone exchanges on 05 April between 8 p.m. and 2 a.m. During this intervention, the fixed telephone services may be disrupted. It includes the red phones communications (the fire brigade will receive an alarm even if there is no voice) and the telephone of the [...]
Anais Schaeffer
- [Italy at CERN 2017: Collaboration Italian industry – CERN](#) March 26, 2017
We are pleased to announce that 40 Italian companies will be hosting stands in CERN's Main Building from 5 to 7 April for the 2017 "Italy at CERN" exhibition. A detailed programme of the exhibition, including the side events scheduled, is available at: www.italy-at-cern.org. CERN staff, users and visitors are invited to drop in and meet [...]
Anais Schaeffer
- [5 April – 8:00 p.m. | Concert by the Bel Canto Ensemble](#) March 26, 2017
Anais Schaeffer
- [21-25 August 2017: ACAT 2017 International Workshop](#) March 23, 2017
The 18th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2017) will take place in Seattle at the University of Washington between 21 and 25 August 2017. We hope to see you there! The 18th edition of ACAT aims, once again, to bring together computational experts from a wide range of [...]
Anais Schaeffer
- [The Telecom Lab is moving to building 600](#) March 23, 2017
IT/CS group As of 1st April 2017, the Telecom Lab will move to the Building 600/R-010, close by restaurant 2 and the data centre. It will be open from 8:30 a.m. to 5:30 p.m. non-stop, from Monday to Friday. The Telecom Lab is the central point for all support questions regarding CERN mobile phone services [...]

Anais Schaeffer

- [The 40th CERN School of Computing goes to Spain: Apply now!](#) March 22, 2017  Sebastian Lopienski, CSC Director Applications are now open for CERN's 40th School of Computing. The CSC 2017 will take place from 27 August to 9 September 2017 in Madrid, Spain, in collaboration with the Universidad Politécnica de Madrid (UPM). The two-week programme consists of more than 50 hours of lectures and hands-on exercises, all in advanced, [...]

Anais Schaeffer

- [A souvenir like no other](#) March 21, 2017 CERN & Society (Image: S. Bennet/CERN) There was a time when you had to choose between buying a souvenir and making a donation for a good cause. But now, you can do both. At the CERN shop, you can buy an authentic LHC data tape, and support young talent, all in one go. In 2012, the LHC experiments [...]

Stefania Pandolfi

- [20-22 March: road SCHERRER closed to traffic](#) March 20, 2017 SMB Department Due to works, the road SCHERRER, in front of buildings 52 and 53, will be closed to traffic from Monday 20 March 7 a.m. until Wednesday 22 March 5.30 p.m. Please note that the shuttles won't stop at building 500: For Circuit 1: shuttle stop at buildings 40 or 33 For Circuit 2: shuttle [...]

Anais Schaeffer

CERN

- [Accelerating News Issue 20 now available](#) March 17, 2017 Section of the SESAME Main Accelerator Ring (Image credit: Bennett, Sophia Elizabeth/CERN) The latest issue of Accelerating News has been published and is now available to read online. In this issue: CESSAMag delivering impact – Completed at the end of 2016, the CESSAMag fulfilled all of its objectives. Accelerator Fault Tracking at CERN – AFT [...]
- [How strange is the proton?](#) February 16, 2017 Katarina Anthony Determination of the relative strange-to-light quark fraction (R_s). Bands: Present result and its uncertainty contributions from experimental data, QCD fit, and theoretical uncertainties. (Image: ATLAS Collaboration/CERN) New precision measurements of the W and Z boson cross sections show the proton contains more strange quarks than previously believed. The protons collided by the LHC [...]
- [Accelerating News Issue December 2016 now available](#) December 13, 2016

The latest issue of Accelerating News is now online and available to read. In this issue: A year of success for HL-LHC - The HL-LHC project achieved several important milestones in 2016. Moedas on SESAME and science diplomacy - EU Commissioner for R&I on SESAME as a model for science diplomacy. LINAC4 reaches target energy of 160 MeV - CERN's [...]

- [New results from LHCb at the CKM workshop](#) December 5, 2016
a clear enhancement around the B_c^+ mass in the D_0 and K meson invariant mass spectrum. The contribution of the $B_c^+ \rightarrow D_0 K^+$ decay, shown as the red Gaussian distribution, is observed with a statistical significance of 5.1σ (Image: CERN) The LHCb collaboration presented several new results at the 9th International Workshop on the CKM Unitarity Triangle (CKM2016), which took place last week [...]
- [A new approach for global access to radiation therapy](#) November 25, 2016
Virginia Greco Participants to the CERN-hosted Design Characteristics of a Novel Linear Accelerator for Challenging Environments workshop, held on 7-8 November 2016. On 7-8 November 2016, CERN hosted a workshop on the Design Characteristics of a Novel Linear Accelerator for Challenging Environments. At this event, 70 experts in various fields relating to radiotherapy for cancer [...]
- [“On Track”, Issue 2: the latest news for AIDA-2020](#) November 3, 2016
The second issue of “On Track”, the AIDA-2020 EU project newsletter, is now available online. In this issue: the journey of the beam telescope built for the AIDA-2020 project; the installation of the CERN Neutrino Platform dual-phase Time Projection Chamber prototype; the AIDA-2020 First Annual Meeting; and the Energy and time management with high-granularity silicon [...]
- [Help advertise CERN’s science and technology at IEEE](#) October 27, 2016
Anaïs Rassat The Institute for Electric and Electronics Engineers (IEEE) Nuclear Science Symposium and Medical Imaging Conference 2016 (NSS/MIC) will take place in Strasbourg, France from 29th October to 6th November. CERN will have a strong presence there related to its contribution to High Energy Physics, medical imaging, health and safety, and knowledge transfer and [...]
- [CERN and ETM \(Siemens\) team up on Industrial Control Systems](#) October 5, 2016
The human-machine interface helps visualise the measurements from industrial control and automation systems. Day-to-day LHC operations require a large number of highly specialised control systems, one such example being the system to manage the complex LHC’s cryogenic system. For over 15 years, CERN has been using a Supervisory Control and Data Acquisition (SCADA) system called Simatic [...]
- [Accelerating News Issue 18 now available](#) October 4, 2016

The latest issue of Accelerating News has just been published. In this issue, find out more about the approval of the ARIES proposal, and why it has been a great success; read about the "Achromatic Telescopic Squeezing" scheme, a new optical scheme which will be a key solution to the various challenges of the HL-LHC upgrade; or find out more [...]



- [ICE-DIP project comes to a close with workshop held at CERN](#) September 14, 2016
Andrew Purcell The young researchers have been co-funded by the European Commission as fellows at CERN and enrolled in doctoral programmes at the Maynooth University and Dublin City University (Image: Andrew Purcell/ CERN) ICE-DIP, the Intel-CERN European Doctorate Industrial Program, is a European Industrial Doctorate scheme led by CERN. Building on CERN's long-standing relationship with Intel through CERN openlab, [...]

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You must be [logged in](#) to post a comment.

SOLAR X-RAYS STATUS

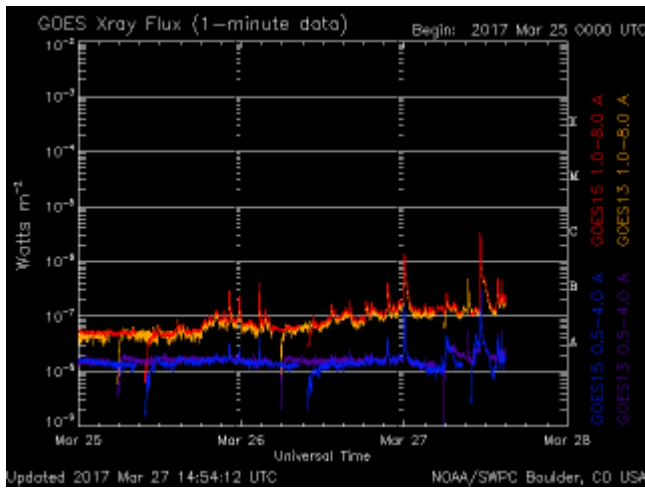
ACTIVE

VISITORS

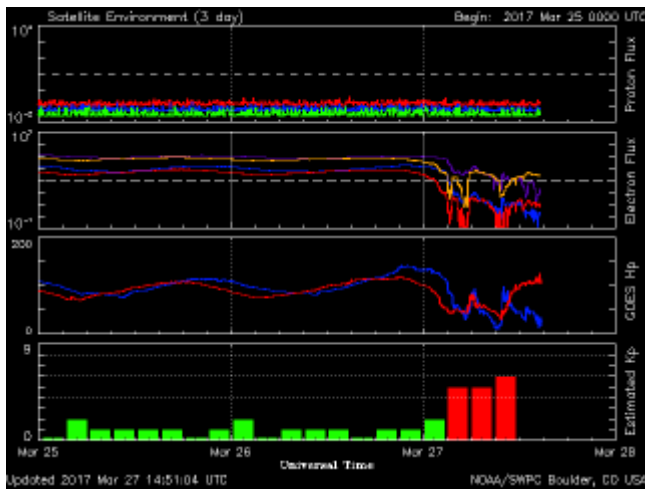
MAGNETIC FIELD STATUS

STORM!

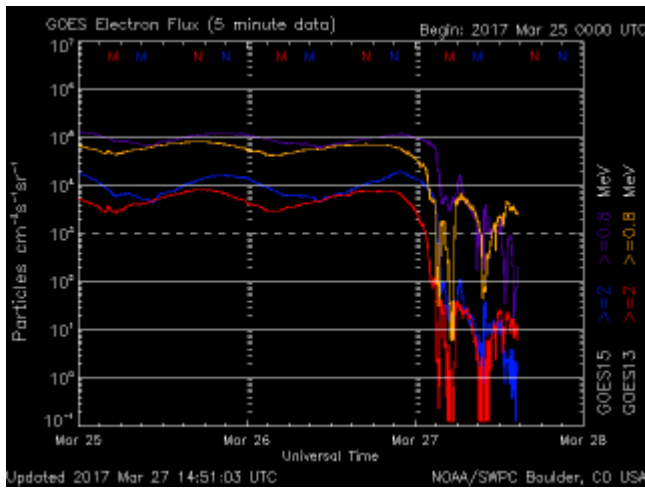
X-RAY FLUX



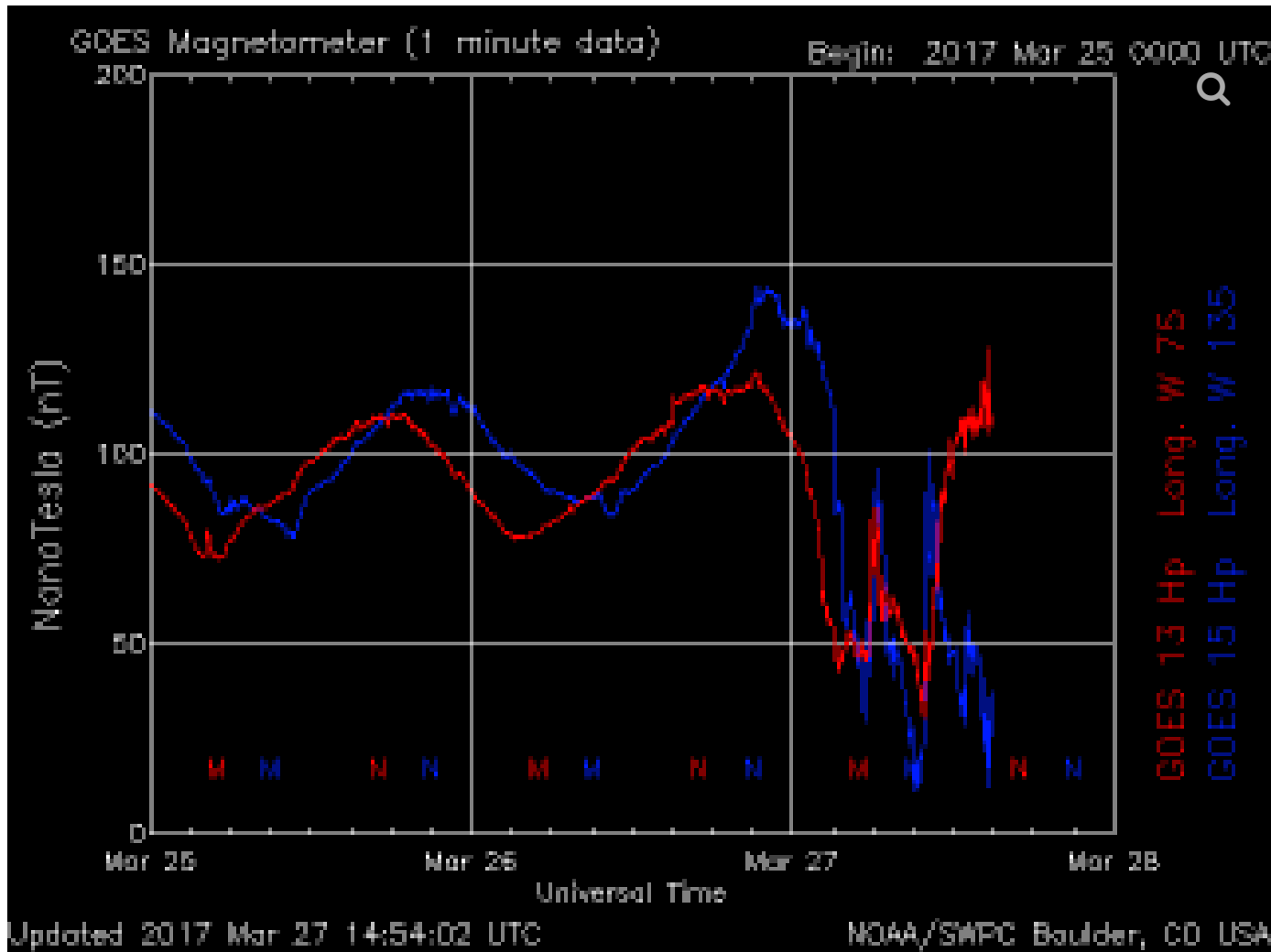
SAT ENVIRONMENT



ELECTRON FLUX



MAGNETOMETER



KP INDEX

