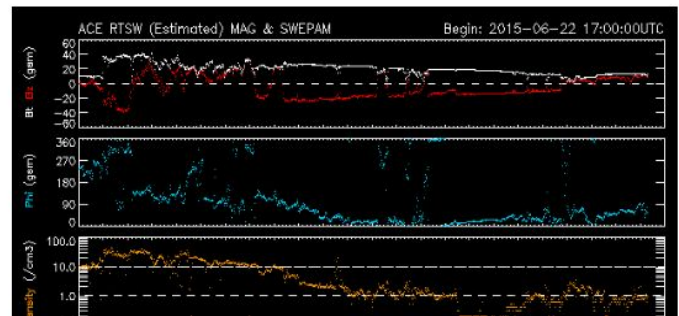
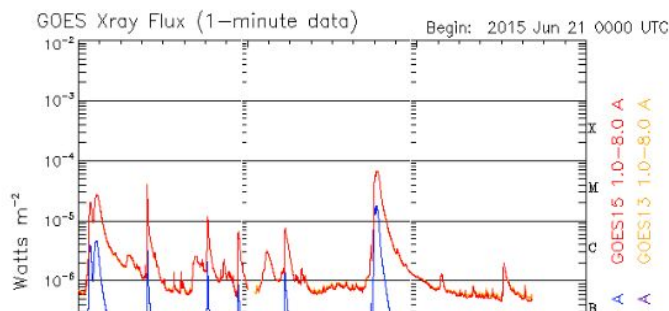


LATEST SOLAR NEWS:

(June 23 1620UTC) Solar flaring is easing back and so is the proton radiation. The geomagnetic disruptions are slowly waning but we have another CME en route to earth.

(June 23 0000UTC) After reviewing the SOHO LASCO images, I can confirm that the CME from today's M6.5 is a full halo, and earth-directed.

(June 22 2120UTC) **KP8 (Level 4 Magnetic Storm)** has set in at earth. We now have significant geomagnetic and radiation events.



Introducing SpaceWeatherNews.com

AND A LOOK AT THE FIRST MAJOR SOLAR ACTIVITY OF ITS EXISTENCE

By Ben Davidson June 27, 2015

I have wanted to have something like this website since I first became interested in the sun. I love Spaceweather.com and ARTIS from solarIMG and Solen and SolarHam, and even NOAAs space weather prediction center has developed a great deal, but to get everything I wanted on one page I had to use iSWA (the Integrated Space Weather Application, which is cumbersome, laggy, and still requires a lot of user input and experience to navigate 100s of cygnets.

I wanted to be thorough, yet simple. I wanted to prioritize and be able to pick and choose from NASA, NOAA, IPS, and whomever else was producing valuable resources. The resources on this page are available for free if you click on them, and I think you will find that the selectivity of the choices works to the user's benefit by eliminating clutter and allowing the most relevant panels to be large enough to be seen and understood.

I wanted to include the basics for beginners, and descriptions below each chart to explain what people are looking at. I even have a number of videos specifically

explaining certain charts and how to learn more - linked below the image along with the descriptions. I included more advanced and specialized charts as you scroll down so that this page could serve more-experienced space weather enthusiasts and those interested in satellite environment, avionics, communications, etc. At the bottom there are also a number of long-term solar indices, including everything needed to see the progression and onset of the next extended period of weak solar activity.

At the top of the page there are four buttons in a line you can push (in Blue). The first button links to the Sun Series, a collection of short educational videos on the sun that became very popular in 2014. Many teachers and professors are currently using the Sun Series as a supplemental tool in their classrooms. The next button quickly takes you to the daily Sun/Earth Report on YouTube. Button #3 takes you to MagneticReversal.org, another free resource that follows earth's current magnetic reversal. The 4th button takes you my twitter feed, where you will get no jokes or spam or chatty nonsense. I only use twitter for significant alerts, and since it is free I recommend using it as another solar flare and tsunami warning system.

SpaceWeatherNews.com

A FREE RESOURCE BY SUSPICIOUSOBSERVERS.ORG AND
EARTHCHANGESMEDIA.COM.

[LEARN THE SUN IN 60 MINUTES](#) - [TODAY'S SUN/EARTH REPORT](#) - [EARTH'S MAGNETIC FIELD](#) - [GET ALERTS FOR MAJOR EVENTS](#)

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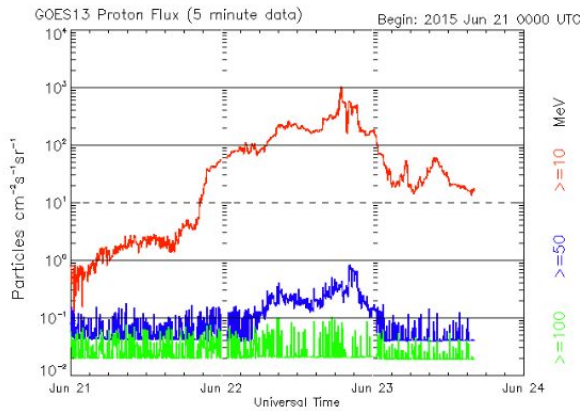
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Below that is the Latest Solar News. I will update this as needed, but hopefully no less than once or twice each day, with many more if the sun is cranky. During this latest solar uptick I was updating the feed every few hours, and I know from many user emails that they found the updates to be a helpful guide to using the website in between their daily dose of information on the morning news.



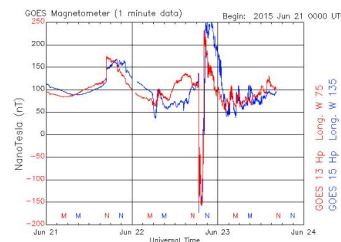
This uptick began with sunspots born a week to 10-days earlier. They remained relatively silent while growing and becoming magnetically complex. The primary active region involved here was AR12371 - seen here on June 23rd, having already done the majority of its work. Even though the solar flares never

cracked X range (in fact they were low M class flares for the most part) they produced a number of solid coronal mass ejections. These CMEs were like the broad ejections seen in 2011 and 2012, rather than the tight coils seen during the previous solar cycle. The flares produced brief low-level radio blackout events at earth, and then came the

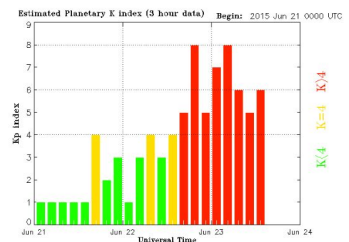


protons. The solar flares kicked up the high energy space radiation; we were already at a level 2 radiation storm when the biggest CME began to impact. We briefly entered a level 3 storm, and if it had endured or gotten worse a number of protective measures would have been taken. ISS astronauts would have entered safe rooms, polar flights would have been re-routed, etc.

The magnetic field disruption was severe. The KP hit 8 and the GOES magnetometer showed that earth's field vectors were slapped negative upon impact. It was the most significant space weather impact I have ever witnessed.

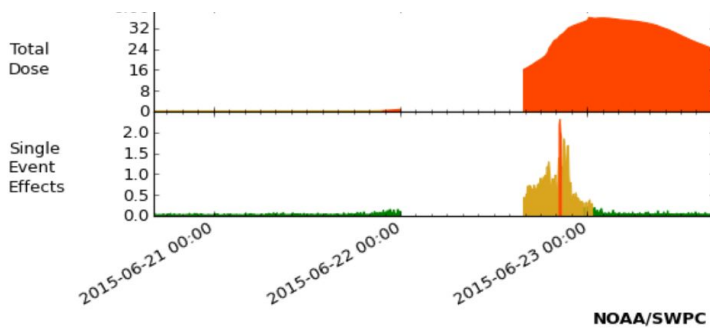


Updated 2015 Jun 23 16:21:02 UTC
 NOAA/SWPC Boulder, CO USA
 GOES Magnetometer Space Weather disruptions show as large spikes Space Weather calm shows as smooth curves



Updated 2015 Jun 23 15:30:19 UTC
 NOAA/SWPC Boulder, CO USA
 KP Index [0-3] Green - Stable/Calm Magnetosphere. [4] Yellow - Unstable Magnetosphere. [5+] Red - Geomagnetic Storm Conditions

If we go with the numbers from the 2013 space radiation study referenced heavily at SuspiciousObservers.org, only a few people would have received potentially fatal doses



of radiation. If, however, the magnetic field of earth is getting weaker and weaker there is no telling how that number changes as time goes on. Perhaps dozens of people were put in danger over that 36 hour period, nobody knows. The Single Event Effect seen in this last image was of the

strength to damage satellites a bit, but it turns out that the only real damage from this storm was to the FNB South Africa Systems and the New Zealand aviation radar - which went down in its entirety - grounding all flights over NZ after the strongest CME impact of these solar storms.

That is very unlikely to be a coincidence.