

SpaceWeather.com -- News and information about meteor showers, solar flares, auroras, and near-Earth asteroids

6/24/11 8:01 AM

Switch to: Europe, USA, New Zealand, Antarctica

Planetary K-index Now: Kp= 2 quiet 24-hr max: Kp= 3 quiet explanation | more data

Credit: NOAA/POES

Interplanetary Mag. Field B_{total}: 3.4 nT B_z: 0.6 nT north explanation | more data Updated: Today at 1157 UT

Coronal Holes: 24 Jun 11



Earth is inside a solar wind stream flowing from the indicated coronal hole. Credit: SDO/AIA.



Updated at: 2011 Jun 23 2200 UTC

FLARE	0-24 hr	24-48 hr	
CLASS M	01 %	01 %	
CLASS X	01 %	01 %	

Geomagnetic Storms:

Probabilities for significant disturbances in Earth's magnetic field are given for three activity levels: <u>active</u>, <u>minor storm</u>, <u>severe</u> <u>storm</u>

Updated at: 2011 Jun 23 2200 UTC

Mid-latitudes

	0-24 hr	24-48 hr	
ACTIVE	30 %	15 %	
MINOR	30 %	10 %	
SEVERE	20 %	05 %	

High	latitudes	
		•

	0-24 hr	24-48 hr
ACTIVE	25 %	20 %
MINOR	35 %	15 %
SEVERE	30 %	10 %



"I explained to Chris that he was simply using the ancient Chinese method of watching the sun through thick smoke or at sunrise and sunset in order to record these giant islands of magnetism on the sun's surface," continues Ramsden. "I sent him back <u>a closeup photo</u> that I had taken earlier that morning of the same feature. Good luck to Chris and all the firefighters risking their lives around the country to fight these epic blazes."

more images: <u>from Jerry Dzuricky</u> of Erie, PA; <u>from Piet Berger</u> of Eys, The Netherlands; <u>from Charles Beanland</u> at the Bay of Gibraltar, Europe;

June 2011 Aurora Gallery

[Aurora alerts: text, voice] [previous Junes: 2010, 2008, 2001]

June 15th Lunar Eclipse Gallery

Near Earth Asteroids

Potentially Hazardous Asteroids (<u>PHAs</u>) are space rocks larger than approximately 100m that can come closer to Earth than 0.05 AU. None of the known PHAs is on a collision course with our planet, although astronomers are finding <u>new ones</u> all the time.

On June 24, 2011 there were 1237 potentially hazardous asteroids.

Recent & Upcoming Earth-asteroid encounters:							
Asteroid	Date(UT)	Miss Distance	Mag.	Size			
2011 LT17	Jun 15	4.6 LD		180 m			
2004 LO2	Jun 15	9.9 LD		48 m			
2011 MD	Jun 27	0.05 LD		13 m			
2011 GA55	Jul 6	64.1 LD		1.0 km			
2011 EZ78	Jul 10	37.3 LD		1.6 km			
2003 YS117	Jul 14	73.9 LD		1.0 km			
2007 DD	Jul 23	9.3 LD		31 m			
2009 AV	Aug 22	49.7 LD		1.1 km			
2003 QC10	Sep 18	50 LD		1.2 km			
2004 SV55	Sep 19	67.5 LD		1.2 km			
2007 TD	Sep 23	3.8 LD		58 m			
2002 AG29	Oct 9	77.1 LD		1.0 km			

Notes: LD means "Lunar Distance." 1 LD = 384,401 km, the distance between Earth and the Moon. 1 LD also equals 0.00256 AU. MAG is the visual magnitude of the asteroid on the date of closest approach.

Essential web links



The official U.S. government space weather bureau





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Jun. 21, 2011

Location: Atlanta, GA

Details:

The Summer Solstice greeted several dozen students at the Green Zone summer camp in Atlanta, GA with a massive light bridge hovering over Sunspot 1236. Solar astronomers are not quit sure what these features are but I am sure that they amazed me and the students all day long... These photos were taken by various students at the event with my equipment.









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