

A new coronal hole is emerging over the sun's east limb. Credit: SDO/AIA.



Updated at: 2011 Aug 08 2200 UTC			
FLARE	0-24 hr	24-48 hr	
CLASS M	55 %	55 %	
CLASS X	10 %	10 %	

Geomagnetic Storms: Probabilities for significant disturbances in Earth's magnetic field are given for three activity levels: active, minor storm, severe storm

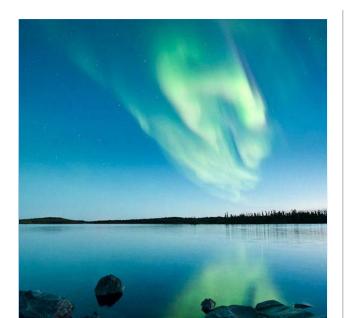
Updated at: 2011 Aug 08 2200 UTC

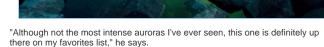
Mid-latitudes

	0-24 hr	24-48 hr
ACTIVE	15 %	15 %
MINOR	05 %	05 %
SEVERE	05 %	01 %

High latitudes	High	latitudes
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nigh latitudes		
	0-24 hr	24-48 hr
ACTIVE	20 %	20 %
MINOR	10 %	15 %
SEVERE	05 %	05 %





The show was not restricted to Canada. Northern Lights spilled across the border into the United States as far south as <u>Oregon, Utah, Colorado</u>, and <u>Nebraska</u>. (Note: The faint <u>red lights</u> photographed in Nebraska are typical of low-latitude auroras during major geomagnetic storms.) Observers in Europe as far south as England, Germany and Poland also witnessed a fine display. Browse the gallery for more examples

Did you miss the show? Don't let that happen again. Sign up for geomagnetic storm alerts: text, voice.

August 2011 Aurora Gallery

[previous Augusts: 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002]

2011 Noctilucent Cloud Gallery [previous years: 2003, 2004, 2005, 2006, 2007, 2008, 2009]

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 new ones all the time.

On August 9, 2011 there were 1241 potentially hazardous asteroids.

Recent & Upcoming Earth-asteroid encounters:

Rooone	a opeening	Laith asterola ci	loountore	
Asteroid	Date(UT)	Miss Distance	Mag.	Size
2003 BK47	Jul 26	77.6 LD		1.1 km
<u>2011 OD18</u>	Jul 28	0.4 LD		22 m
<u>2009 AV</u>	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
<u>2007 TD</u>	Sep 23	3.8 LD		58 m
2002 AG29	Oct 9	77.1 LD		1.0 km
<u>2000 OJ8</u>	Oct 13	49.8 LD		2.5 km
<u>2009 TM8</u>	Oct 17	1.1 LD		8 m
<u>2011 FZ2</u>	Nov 7	75.9 LD		1.6 km
<u>2005 YU55</u>	Nov 8	0.8 LD		175 m

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





NOAA Space Weather Prediction Center



Reliant Energy Reliant solar panel leasing is a great option for renewable energy! www.reliant.com/solar











LINK Solar Dynamics Observatory Researchers call it a "Hubble for the sun." SDO is the most advanced solar observatory ever. LINK STEREO 3D views of the sun from NASA's Solar and Terrestrial Relations Observatory LINK Solar and Heliospheric Observatory Realtime and archival images of the Sun from SOHO. LINK Daily Sunspot Summaries from the NOAA Space Environment Center LINK Heliophysics the underlying science of space weather LINK Science Central LINK Conquest Graphics for out-of-this-world printing and graphics LINK Trade Show Displays	LINK Atmos The first place to I related phenomen		put your ad here
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more links		more links	

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