

SpaceWeather.com

Science news and information about the Sun-Earth environment.

SPACE WEATHER
**Current
Conditions**



Solar Wind

speed: km/s

density: protons/cm³

[explanation](#) | [more data](#)

Updated: Today at 0517 UT

X-ray Solar Flares

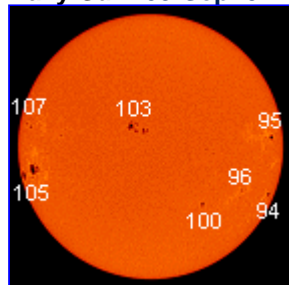
6-hr max: **C3** 0235 UT Sep09

24-hr: **C3** 0235 UT Sep09

[explanation](#) | [more data](#)

Updated: Today at 0825 UT

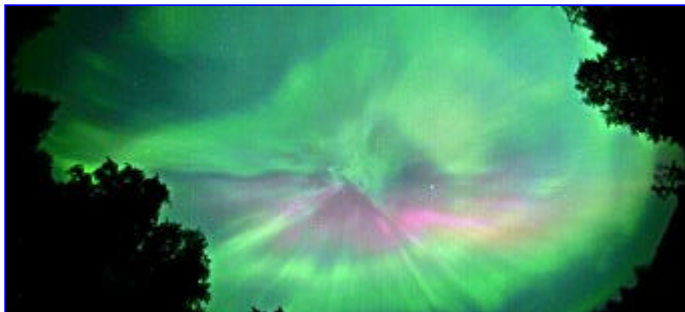
Daily Sun: 09 Sep '02



What's Up in Space -- 9 Sep 2002

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WEEKEND AURORAS: A solar wind shock wave swept past Earth on Sept. 7th and triggered a strong geomagnetic storm. Sky watchers in Europe, Canada and US states as far south as the Carolinas spotted colorful auroras. It was the second such display in less than a week. **Galleries:** [Sept. 4th](#); [Sept 7th](#).



Above: Photographer Jorma Koski of Finland captured this extraordinary view of the aurora borealis on Sept. 7, 2002. [[more](#)]

[explanation](#) | [more data](#)

Updated: Today at 0817 UT

SPACE WEATHER
NOAA
Forecasts



Solar Flares: Probabilities for a medium-sized ([M-class](#)) or a major ([X-class](#)) solar flare during the next 24/48 hours are tabulated below.

Updated at 2002 Sep 08 2210 UTC

FLARE	0-24 hr	24-48 hr
CLASS M	50 %	50 %
CLASS X	05 %	05 %

Geomagnetic Storms:

Probabilities for significant disturbances in Earth's magnetic field are given for three activity levels: [active](#), [minor storm](#), [severe storm](#).

Updated at 2002 Sep 08 2210 UTC

Mid-latitudes

	0-24 hr	24-48 hr
ACTIVE	30 %	25 %
MINOR	20 %	15 %
SEVERE	15 %	05 %

High latitudes

	0-24 hr	24-48 hr
ACTIVE	50 %	30 %
MINOR	25 %	20 %
SEVERE	15 %	05 %



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