

Current Conditions

Solar wind speed: 485.7 km/sec density: 6.2 proton/cm^3

X-ray Solar Flares 6-hr max: C1 0718 UT Nov11

Daily Sun: 11 Nov 13

Sunspot number: 90

Spotless Days Current stretch: 0 days

The Radio Sun 10.7 cm flux: 154 sfu

Current Auroral Oval: Switch to Europe, USA, New Zealand, Antarctica

Planetary K-index Now: Kp=4 unsettled

Interplanetary Mag. Field Btotal: 6.9 nT

Coronal Holes: 11 Nov 13

Noctilucent Clouds Switch view: Europe, USA, Asia, Polar

NOAA Forecasts Updated at: 2013 Nov 10 2200 UTC

Geomagnetic Storms Probabilities for significant disturbances in Earth's magnetic field

Mid-latitudes Updated at: 2013 Nov 10 2200 UTC

High latitudes Updated at: 2013 Nov 10 2200 UTC

All Sky Fireball Network Every night, a network of NASA all-sky cameras scans the skies above the United States for meteoric fireballs

Near Earth Asteroids Potentially Hazardous Asteroids (PHAs) are space rocks larger than approximately 100m that can come closer to Earth than 0.05 AU

Recent & Upcoming Earth-asteroid encounters: Asteroid Date(UT) Miss Distance Size

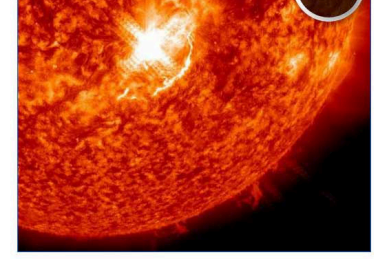
Essential web links NOAA Space Weather Prediction Center

What's up in space

When is the best time to see auroras? Where is the best place to go? And how do you photograph them?

CHANCE OF FLARES: NOAA forecasters estimate a 60% chance of M-class flares and a 30% chance of X-flares on Nov. 11th

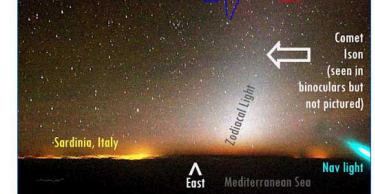
YET ANOTHER X-FLARE: Solar activity is high as sunspot AR1890 continues to produce X-class solar flares



The flare also produced a strong burst of ~300 MHz radio waves, recorded at the Mauritius Radio Telescope on the island of Mauritius in the Indian Ocean

This is the third X-flare from AR1890 since Nov. 5th, and all three have something in common: brevity

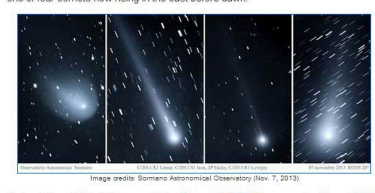
COMET ISON NOW A BINOCULAR OBJECT: Comet ISON is brightening as it approaches the sun



"It was faint, but is predicted to brighten and move each day," he adds. "Exciting!"

Comet ISON is currently moving through the constellation Virgo low in the eastern sky before dawn

BRIGHTER THAN ISON: Comet ISON is getting all the press, but it's not even the brightest comet in its own patch of sky



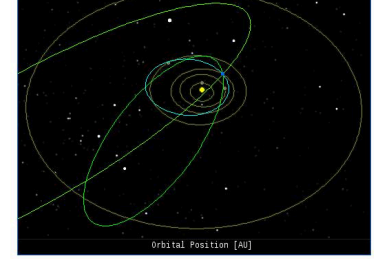
Pictured from left to right are exploding Comet LINEAR X1, sungrazing Comet ISON, short-period Comet Encke, and the brightest of them all, Comet Lovejoy

An apparition of so many comets at once is a rare thing, and amateur astronomers are encouraged to wake up early for a tour of the pre-dawn sky

Comet ephemerides: Comet ISON, Comet Lovejoy, Comet Encke, Comet LINEAR X1

Realtime Comet Photo Gallery Realtime Aurora Photo Gallery Realtime Comet ISON Photo Gallery

On Nov. 10, 2013, the network reported 3 fireballs



In this diagram of the inner solar system, all of the fireball orbits intersect at a single point—Earth

Near Earth Asteroids Potentially Hazardous Asteroids (PHAs) are space rocks larger than approximately 100m that can come closer to Earth than 0.05 AU

Table with 5 columns: Asteroid, Date(UT), Miss Distance, Size. Lists recent and upcoming Earth-asteroid encounters.

Essential web links NOAA Space Weather Prediction Center

Atmospheric Optics The first place to look for information about sundogs, pillars, rainbows and related phenomena

Solar Dynamics Observatory Researchers call it a "hubble for the sun," SDO is the most advanced solar observatory ever

STEREO 3D views of the sun from NASA's Solar and Terrestrial Relations Observatory

Solar and Heliospheric Observatory Realtime and archival images of the Sun from SOHO

Monday, Nov. 11, 2013

archives November 11 2013

The Comet Hunter TELESCOPE

INTERNATIONAL PARK solar astronomy.org outreach, imaging & reviews

AURORA PHOTO TOURS LIGHTHOUSE ISLAND.COM

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