

LESERBILDE

The first reaction of many readers when they see this picture is Photoshop! Surely this must be a fake. But no, many independent observers witnessed and phtotographed the apparition. It is real.

Banbury continues: "It consisted initially of a green beam of light similar in color to the aurora with a mysterious rotating spiral at one end. This spiral then got bigger and bigger until it turned into a huge halo in the sky with the green beam extending down to Earth.
According to press reports, this could be seen all over northern
Norway and must therefore have been very high up in the atmosphere to be seen hundreds of km apart."

UPDATE: Circumstantial evidence is mounting that the phenomenon was caused by a malfunctioning rocket, possibly an ICBM launched from a Russian submarine. A Navtek no-fly alert was issued for the White Sea on Dec. 9th, and photographers appear to have recorded the initial boost phase of a launch below the spiral (see inset). A rocket motor spinning out of control could indeed explain the spiral pattern, so this explanation seems plausible, although it has not yet been

More reports and videos: #1, #2, #3, #4, #5.

HOW STRONG WILL THE GEMINIDS BECOME? Long

ago, on a cold December night in the 19th century, the first Geminid meteors appeared. In those days, the display was so weak (a dozen or so meteors per hour) that only the most alert observers could say they had seen a Geminid. How times have changed. According to data compiled by Bill Cooke of NASA's Meteoroid Environment Office, the Geminid meteor shower has intensified almost five-fold to become one of the best showers of the year:



101-Years-Long Deadly Comet Tail Read this Story!

Virtual 3D Globe

Watch the Globe on Your Desktop Hi Res., Dynamic, Free. Get it? 3DEarth.CrawlerApps.com

Brain Training Games
Improve Your Memory and Cognition with Online Brain Training Games



MOTION













The sun is blank--no sunspots. Credit: SOHO/MDI

Sunspot number: 0

What is the sunspot number? Updated 08 Dec 2009

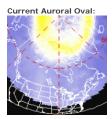
Spotless Days Current Stretch: 16 days 2009 total: 259 days (76%) Since 2004: 770 days Typical Solar Min: 485 days explanation | more info Updated 08 Dec 2009

Far side of the Sun:



This <u>holographic image</u> reveals no sunspots on the far side of the sun. Image credit: SOHO/MDI

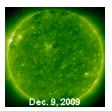
Planetary K-index Now: Kp= 0 quiet 24-hr max: Kp= 0 quiet explanation | more da



Switch to: Europe, USA, Credit: NOAA/POES

Interplanetary Mag. Field B_{total}: 1.3 nT B₇: 0.1 nT south explanation | more data Updated: Today at 2206 UT

Coronal Holes:



There are no coronal holes on the Earth-facing side of the sun. Credit: SOHO Extreme UV Telescope

SPACE WEATHER NOAA Forecasts

Updated at: 2009 Dec 09 2201 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: active, minor storm, severe storm

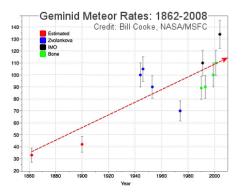
Updated at: 2009 Dec 09 2201 UTC

Mid-latitudes

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

High latitudes

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



What's driving the surge? The source of the Geminids is extinct comet 3200 Phaethon. A stream of debris from the comet has been sweeping across Earth's orbit for more than a century, and we are plunging deeper into the stream with each December crossing. Computer models suggest that the Geminids will continue to intensify with meteor rates jumping another 20% to 50% in the decades ahead.

Researchers will be watching the 2009 Geminids to see if the trend does indeed continue. Rates could exceed 140 meteors per hour when the shower peaks on Dec. 13th and 14th. Get the <u>full story and observing tips</u> from Science@NASA.

December Northern Lights Gallery [previous Decembers: 2008, 2007, 2006, 2005, 2001, 2000]

Explore the Sunspot Cycle

Near-Earth Asteroids

Potentially Hazardous Asteroids (PHAs) 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 December 9, 2009 there were **1085** potentially hazardous asteroids.

Dec. 2009 Earth-asteroid encounters:

Door 2000 Earth dotor old ollocalitoro.						
Asteroid	Date(UT)	Miss Distance	Mag.	Size		
2009 WV25	Dec. 1	2.9 LD	16	65 m		
2009 WA52	Dec. 5	8.2 LD	20	23 m		
2002 WP	Dec. 6	71.2 LD	16	950 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 Links

LINK NOAA Space Weather Prediction Center

The official U.S. government space weather bureau

LINK Atmospheric Optics

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

LINK Solar and Heliospheric Observatory

Realtime and archival images of the Sun from SOHO.

LINK STEREO

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

LINK Daily Sunspot Summaries

from the NOAA Space Environment Center

LINK Current Solar Images

from the National Solar Data Analysis Center

LINK Science Central

The Tunguska
Explosion
101-Years-Long
Deadly Comet Tail
Read this Story!

Ads by Google













The Tunguska
Explosion
101-Years-Long
Deadly Comet Tail
Read this Story!

Ads by Google

SpaceWeather.com -- News and information about meteor showers, solar flares, auroras, ... Page 3 of 3

more links...

©2008, SpaceWeather.com -- This site is penned daily by <u>Dr. Tony Phillips</u>.