Title: Conversations

Subtitle: 2012 Confirmed as the Day, Who Needs Help Second Subtitle: 2012 Confirmed as the Day, Who Needs Help

Author: wizanda Date: 1178613626

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Quote:

"March 10, 2006: It's official: Solar minimum has arrived. Sunspots have are nonexistent. The sun is utterly quiet.

Like the quiet before a storm.

This week researchers announced that a storm is coming--the most intensive ars. The prediction comes from a team led by Mausumi Dikpati of the NAtmospheric Research (NCAR). "The next sunspot cycle will be 30% to 50 previous one," she says. If correct, the years ahead could produce a bur only to the historic Solar Max of 1958.

see captionThat was a solar maximum. The Space Age was just beginning Oct. 1957 and Explorer 1 (the first US satellite) in Jan. 1958. In 1958 yo storm was underway by looking at the bars on your cell phone; cell phone people knew something big was happening when Northern Lights were sig Mexico. A similar maximum now would be noticed by its effect on cell phosatellites and many other modern technologies.

Right: Intense auroras over Fairbanks, Alaska, in 1958. [More]

Dikpati's prediction is unprecedented. In nearly-two centuries since the discovered, scientists have struggled to predict the size of future maxim can be intense, as in 1958, or barely detectable, as in 1805, obeying no

The key to the mystery, Dikpati realized years ago, is a conveyor belt on

We have something similar here on Earth - the Great Ocean Conveyor Be movie The Day After Tomorrow. It is a network of currents that carry wat ocean--see the diagram below. In the movie, the Conveyor Belt stopped a weather into chaos.

see caption

Above: Earth's "Great Ocean Conveyor Belt." [More]

The sun's conveyor belt is a current, not of water, but of electrically-confrom the sun's equator to the poles and back again. Just as the Great Ocweather on Earth, this solar conveyor belt controls weather on the sun. Sunspot cycle.

Solar physicist David Hathaway of the National Space Science & Technol explains: "First, remember what sunspots are--tangled knots of magnetis inner dynamo. A typical sunspot exists for just a few weeks. Then it decay of weak magnetic fields."

Enter the conveyor belt.

see caption"The top of the conveyor belt skims the surface of the sun, so fields of old, dead sunspots. The 'corpses' are dragged down at the pole where the sun's magnetic dynamo can amplify them. Once the corpses (moreincarnated (amplified), they become buoyant and float back to the surf

Right: The sun's "great conveyor belt." [Larger image]

All this happens with massive slowness. "It takes about 40 years for the says Hathaway. The speed varies "anywhere from a 50-year pace (slow) t

When the belt is turning "fast," it means that lots of magnetic fields are future sunspot cycle is going to be intense. This is a basis for forecasting 1986-1996," says Hathaway. "Old magnetic fields swept up then should in 2010-2011."

Like most experts in the field, Hathaway has confidence in the conveyor Dikpati that the next solar maximum should be a doozy. But he disagrees forecast puts Solar Max at 2012. Hathaway believes it will arrive sooner,

"History shows that big sunspot cycles 'ramp up' faster than small ones,' the first sunspots of the next cycle appear in late 2006 or 2007 - and So 2010 or 2011."

Who's right? Time will tell. Either way, a storm is coming.

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