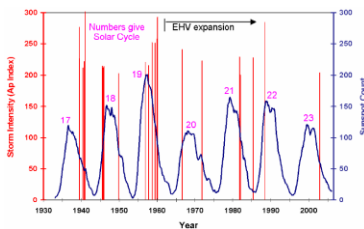


# ECONOMIC IMPACTS OF SPACE WEATHER

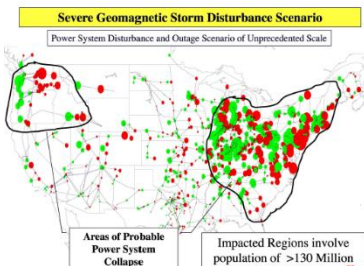
Technical reports, presentation, research publications, programmatic documents



John Kappelman

**Geomagnetic Storms and Their Impacts on the U.S. Power Grid (2010)**

<https://fas.org/irp/eprint/geomag.pdf>



Dan McMorrow

**Impacts of Severe Space Weather on the Electric Grid (2011)**

<https://fas.org/irp/agency/dod/jason/spaceweather.pdf>



David Wade

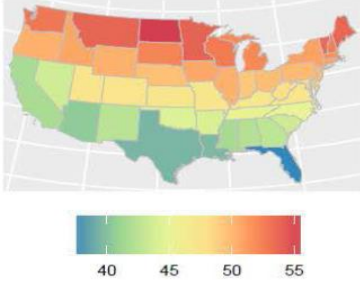
**Space Weather - Lloyd's report (2015)**

<https://www.lloyds.com/~media/files/lloyds/offices/spain/2015/cob%20on%20emerging%20risks/6%20david%20wade%20space%20weather.pdf>



**Lloyd's 360 Risk Insight: Space Weather**

[https://www.lloyds.com/~media/lloyds/reports/360/360%20space%20weather/7311\\_lloyds\\_360\\_space%20weather\\_03.pdf](https://www.lloyds.com/~media/lloyds/reports/360/360%20space%20weather/7311_lloyds_360_space%20weather_03.pdf)



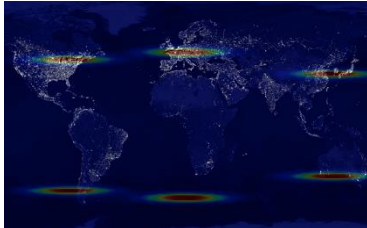
Cambridge Centre for Risk Studies

### HELIOS Solar Storm Scenario

[https://www.jbs.cam.ac.uk/fileadmin/user\\_upload/research/centres/risk/downloads/AIG\\_Helios\\_Solar\\_Storm\\_16\\_June.pdf](https://www.jbs.cam.ac.uk/fileadmin/user_upload/research/centres/risk/downloads/AIG_Helios_Solar_Storm_16_June.pdf)

other Cambridge risk reports:

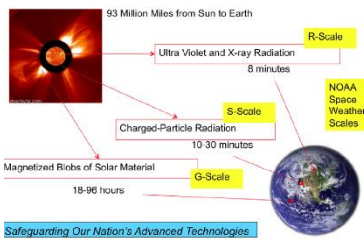
<http://cambridgeriskframework.com/downloads>



Schulte in den Bäumen et al

### How severe space weather can disrupt (2014)

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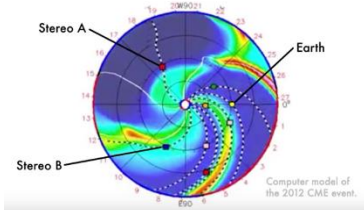
### Space Weather Risks and Society Workshop (2011)

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### Severe Space Weather Events workshop (2008)

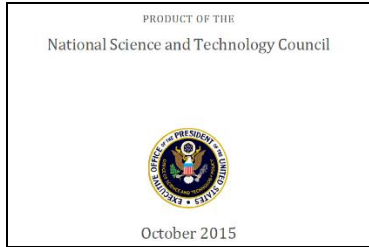
<http://lasp.colorado.edu/home/wp-content/uploads/2011/07/lowres-Severe-Space-Weather-FINAL.pdf>



### NASA Science: Near Miss-the Superstorm of July 2012

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Video: <https://www.youtube.com/watch?v=7ukQhycKOFw>



## **The White House (2015) NATIONAL SPACE WEATHER STRATEGY**

[https://www.whitehouse.gov/sites/default/files/microsites/ostp/final\\_national\\_space\\_weather\\_strategy\\_20151028.pdf](https://www.whitehouse.gov/sites/default/files/microsites/ostp/final_national_space_weather_strategy_20151028.pdf)

## **The White House (2015) NATIONAL SPACE WEATHER ACTION PLAN (SWAP)**

[https://www.whitehouse.gov/sites/default/files/microsites/ostp/final\\_national\\_space\\_weather\\_action\\_plan\\_20151028.pdf](https://www.whitehouse.gov/sites/default/files/microsites/ostp/final_national_space_weather_action_plan_20151028.pdf)