

The loss of systematically important operations could have a serious knock-on effect on the UK economy and economies around the world.

Summary of space weather impacts

Space weather events	Time to affect Earth	Potential impact
Coronal mass ejections	12-18 hours	Geomagnetic storms, radio blackouts, satellite damage, power grid disturbances
Solar flares	8-30 minutes	Radio blackouts, satellite damage, aurora borealis
Solar energetic particles	30 minutes - 1 hour	Radiation damage to satellites, health risks for astronauts and high-altitude flights

3. Education and awareness

Encourage internal risk teams and business continuity planners to consider space weather risks.

4. Vendor risk assessments

Assess vendor's exposure to space weather risks.

5. Space weather response plans

Determine 'trigger' events to assist them in space weather planning.

Assess the impact of space weather on multiple systems.

Coordinated market-wide testing

Background

The UCL Insights: Research Briefing series presents summaries of UCL research and briefings on topical public policy issues.

See more at www.ucl.ac.uk/public-policy

Building Space Weather Resilience in the Finance Sector

RECOMMENDATIONS FOR FURTHER RESEARCH

Business: ...

Business and academia: ...

The Met Office: ...

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