



# Hazard Resilience Strategies

## *Astronomical*

Asteroid Crashes, Comet Crashes and Meteorites  
Geomagnetic and Ionospheric Storms  
Space Object Crashes

### Asteroid Crashes, Comet Crashes and Meteorites <sup>1</sup>

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- Ensure community-based asteroid, comet and meteorite crash exercises have taken place in schools and community-at-large (e.g., table-top or full-scale exercises)
- Ensure there is a warning system in place to notify community residents of a potential asteroid, comet or meteorite crash
- Ensure there is a warning system in place with the Canadian Space Agency to notify police, fire and ambulance personnel of a potential asteroid, comet or meteorite crash
- Geomagnetic Storms
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### Geomagnetic and Ionospheric Storms

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- Ensure community-based geomagnetic exercises have taken place in community-at-large (e.g., table-top or full-scale exercises)
- Ensure the community has worked with utilities to ensure that sufficient systems are in place to avoid long-term power outages and overheating of transformers and other malfunctions due to geomagnetic storms.
- Ensure the community has worked with pipeline companies to ensure the pipelines are not subject to excess corrosion that could lead to leaks as a result of geomagnetic storms.
- Ensure there is a warning system in place to notify community residents of potential geomagnetic storms.
- Ensure there is a warning system in place with Public Safety Canada to notify police, fire and ambulance personnel of potential geomagnetic storms



## Space Object Crashes 2

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- Ensure community-based space object crash exercises have taken place in the schools and community-at-large (e.g., table-top or full-scale exercises)
- Ensure there is a warning system in place to notify community residents of a potential space object crash
- Ensure there is a warning system in place to notify police, fire and ambulance personnel of a potential space object crash

## References

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<sup>1</sup> Matheny, Jason G. (2007). Reducing the Risk of Human Extinction. *Risk Analysis*, 27:5, 1335-1344.

<sup>2</sup> Matheny, Jason G. (2007). Reducing the Risk of Human Extinction. *Risk Analysis*, 27:5, 1335-1344.