

MeteorShield Sarawak - Impact Report

Asteroid Information

Asteroid: (2020 GA2)

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1. AI Summary

An asteroid, (2020 GA2), presented an impact threat near Kuching. Without mitigation, its 1.59×10^{19} J energy would create a catastrophic 25.1 km blast radius, causing widespread devastation and massive casualties. However, with the selected Kinetic Impactor mitigation, the asteroid would be deflected. This successful intervention would prevent the impact entirely, safeguarding Kuching and the surrounding region from destruction.

2. Preparedness Plan

Given an asteroid impact near Kuching with a blast radius of approximately 25.1 km, the immediate area will experience catastrophic destruction. The preparedness plan focuses on minimizing casualties and secondary impacts in the wider Sarawak region, acknowledging that the direct blast zone is unsurvivable.

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- *Short Emergency Preparedness Plan: Asteroid Impact (Near Kuching)**
- *Assumptions:** A warning period (even if short) allows for some pre-impact action.
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1. For Local Authorities

1. **Mandatory Evacuation & Designated Safe Zones:** Immediately upon confirmed alert, issue mandatory evacuation orders for all areas within and significantly beyond

the 25.1 km blast radius (e.g., up to 50-100 km depending on specific trajectory/size estimates). Establish and widely publicize pre-designated safe zones and temporary shelters further inland and away from coastal areas that could be affected by secondary tsunamis or seismic activity.

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2. Public Awareness

1. ****Immediate Action Protocol ("Drop, Cover, Hold On"):** Educate the public on the immediate actions to take upon an imminent impact alert: "Drop, Cover, and Hold On" to protect against shockwaves and debris. Advise staying away from windows and seeking sturdy interior shelter.

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3. Environmental Protection

1. ****Air Quality Monitoring & Respiratory Protection:** Establish rapid deployment units for immediate air quality monitoring (dust, ash, potential toxic gases from fires) in downwind regions. Distribute respiratory protection (N95 masks) and advise residents to stay indoors with sealed windows/doors if air quality deteriorates.

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