

MeteorShield Sarawak - Impact Report

Asteroid Information

Asteroid: (2020 GA2)

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1. AI Summary

Asteroid (2020 GA2) posed a severe threat to Kuching. Without mitigation, its impact would release 1.59×10^{19} Joules of energy, creating a devastating blast radius of 25.1 km, causing catastrophic destruction and immense loss of life. However, a Kinetic Impactor mission was selected as mitigation. This successful intervention would deflect the asteroid, completely preventing the impact and protecting Kuching from harm.

2. Preparedness Plan

Given an asteroid impact near Kuching with a 25.1 km blast radius, the immediate area will be devastated. This plan focuses on mitigating casualties and secondary disasters for the surrounding region of Sarawak, assuming some level of pre-warning or immediate post-impact response.

Short Emergency Preparedness Plan for Sarawak (Asteroid Impact near Kuching)

- *Blast Radius: ~25.1 km (Total Devastation Zone)**

This plan focuses on areas *outside* the immediate blast radius and rapid response.

1. Local Authorities

1. **Evacuation & Shelter Zones:** Pre-designate clear evacuation routes for areas within a 50-100km radius of Kuching, identifying safe assembly points and temporary shelters outside the potential damage zone. Establish a unified command center at a hardened, remote location.

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2. Public Awareness

1. **Alert System & Action Protocols:** Implement a multi-channel public alert system (SMS, radio, TV, community sirens) with clear, concise instructions for immediate action: evacuate if time allows, or "Drop, Cover, and Hold On" for those further out, followed by seeking sturdy shelter and monitoring official channels.

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3. Environmental Protection

1. **Hazardous Material Containment:** Map and identify all industrial sites, chemical storage facilities, and potential hazardous waste areas within a 100km radius. Develop rapid response plans for containment and neutralization of spills (e.g., oil, chemicals) to prevent widespread contamination of rivers and land.

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