

The background is a deep black space filled with numerous small white stars. Several large, irregularly shaped asteroids or meteoroids are scattered across the frame, some appearing as bright, glowing shapes and others as darker, more textured objects. A small, blue and white Earth-like planet is visible on the left side, near the center.

A S T R O B A T S

# METEOR

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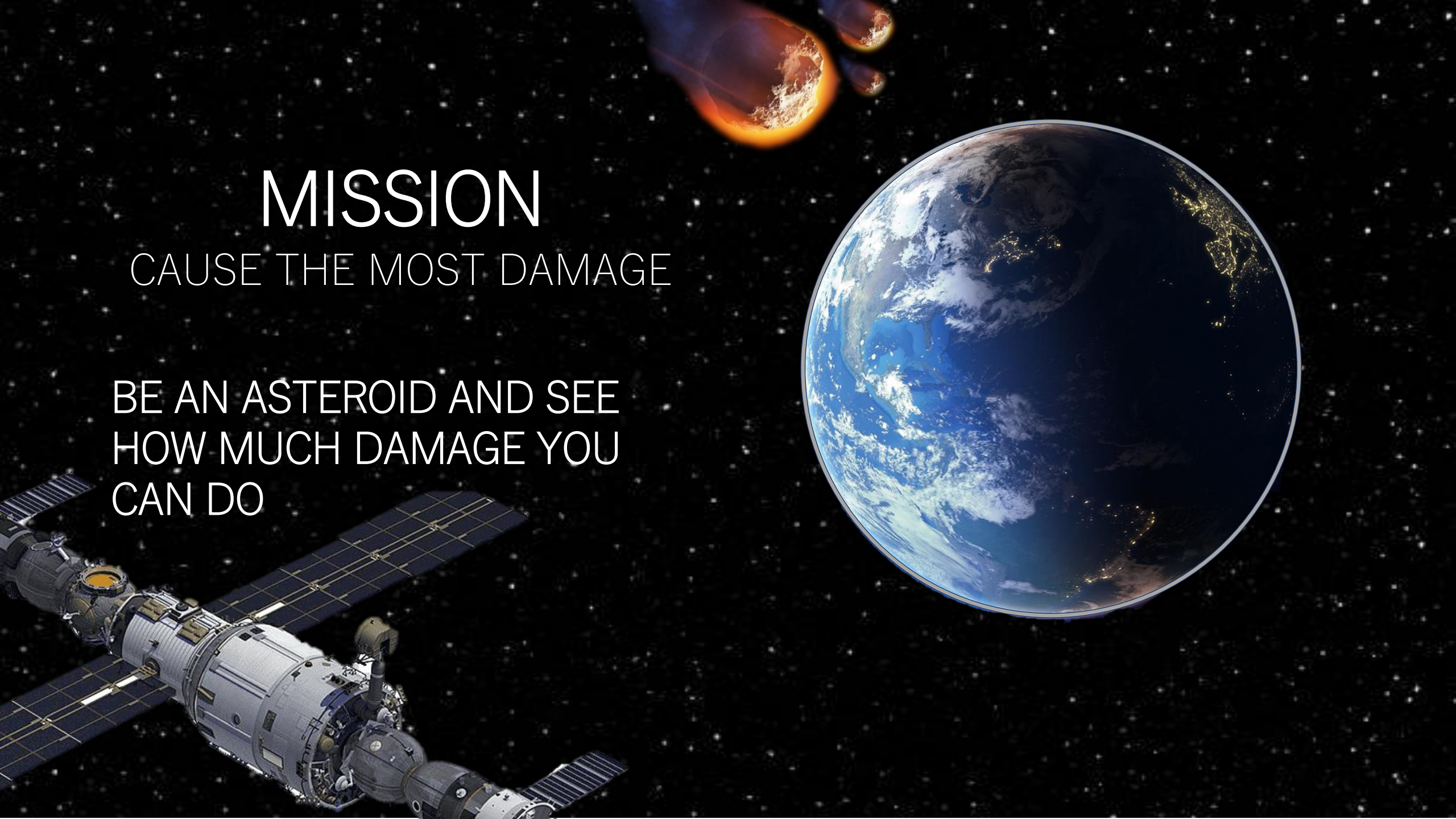
## MADNESS

JOSÉ RAMÓN CAMPOS CASTILLO  
MÓNICA ESTEFANÍA GARCÍA TERÁN  
ELÍ ISRAEL DELGADO  
ABRAHAM RANGEL QUINTANILLA

# MISSION

CAUSE THE MOST DAMAGE

BE AN ASTEROID AND SEE  
HOW MUCH DAMAGE YOU  
CAN DO





# SELECT YOUR ASTEROID



| SPEED: 20 KM/S  
| ANGLE: 45°  
| DIAMETER: 600M

2025-BC10

| DENSITY: 3700 KG/M<sup>3</sup>  
| TYPE: ROCK

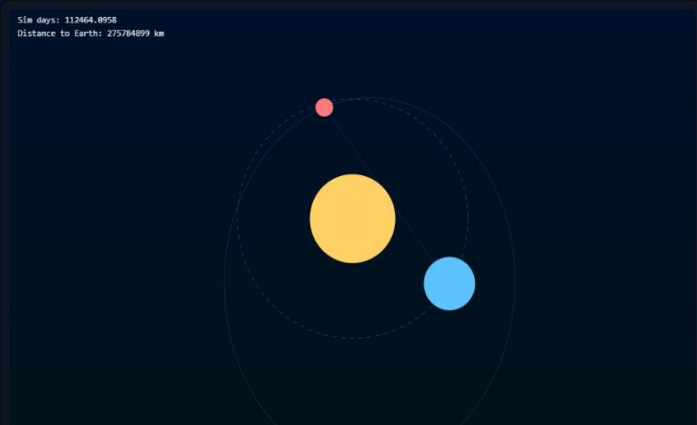




# 2025-BC10

## ASTEROID ORBIT & IMPACT SIMULATOR

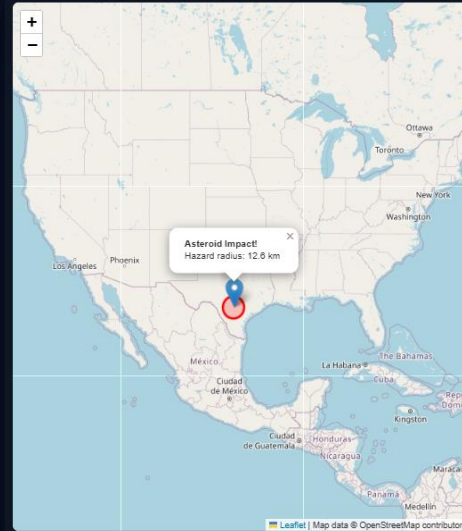
NeoWs Asteroid Orbit + Impact Simulator → Seismic Hazard Map Fetch by NASA NeoWs ID (or edit orbital elements manually). Impact triggers hazard visualization (approx).



Play  Simulation speed (days per real second) time: 112664.8958 d

NASA NeoWs Asteroid ID (SPK-ID / nasa\_jpl\_id)  
54550502 VVcwCYF3Yop7Zq1dkZ74q24y7wcA4gBSXtuFeoY

Fetch from NASA NeoWs Reset Orbital Path



When an impact is detected the map will show an estimated hazard circle and a heat overlay. Approximate only.

## PLANET DESTROYER

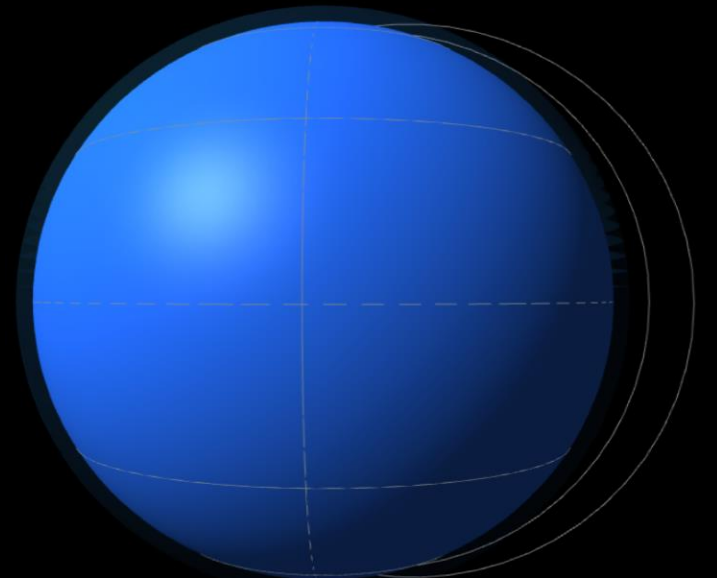
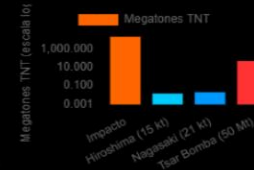
Parámetros del impacto:

Latitud: 0  
Longitud: 0  
Diámetro (m): 600  
Densidad (kg/m³): 3700  
Velocidad (km/s): 20  
Eficiencia sísmica: 0.001  
Profundidad (km): 10

Simular meteorito

Resultados:

Masa:  $4.185 \times 10^{11}$  kg  
Energía cinética:  $8.369 \times 10^{19}$  J  
→ 20002874.83 kilotonnes TNT  
→ 20002.8748 megatonnes TNT  
Energía sísmica:  $8.369 \times 10^{16}$  J  
Mw equivalente: 8.08  
Radio: MM  
VI > 636.0 km  
VII > 289.7 km  
VIII > 128.8 km  
IX > 53.7 km

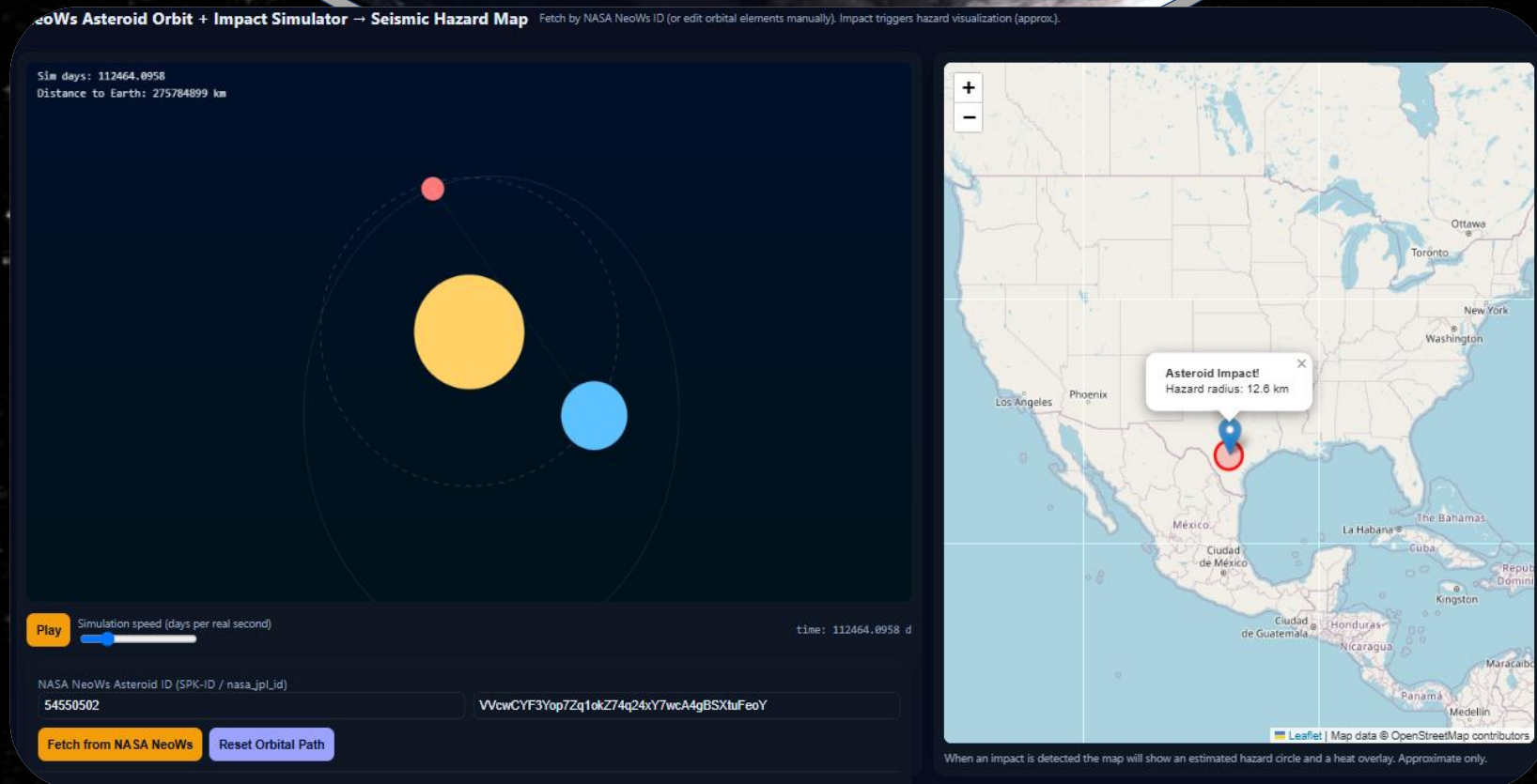




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## PRINCIPLES FUNCTIONS

- Asteroid's Real Data
- 3D Orbit Simulation
- Risk and Impact Map
- Interactives Controls



[ASTEROID ORBIT VIDEO](#)





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# PLANET DESTROYER

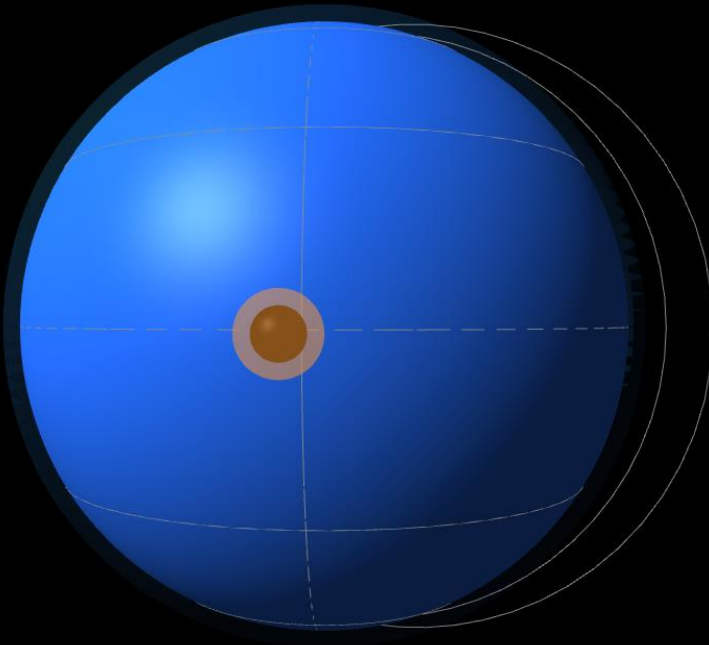
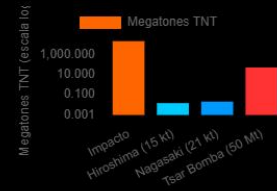
## Parámetros del impacto:

Latitud:   
Longitud:   
Diámetro (m):   
Densidad (kg/m³):   
Velocidad (km/s):   
Eficiencia sísmica:   
Profundidad (km):

[Simular meteorito](#)

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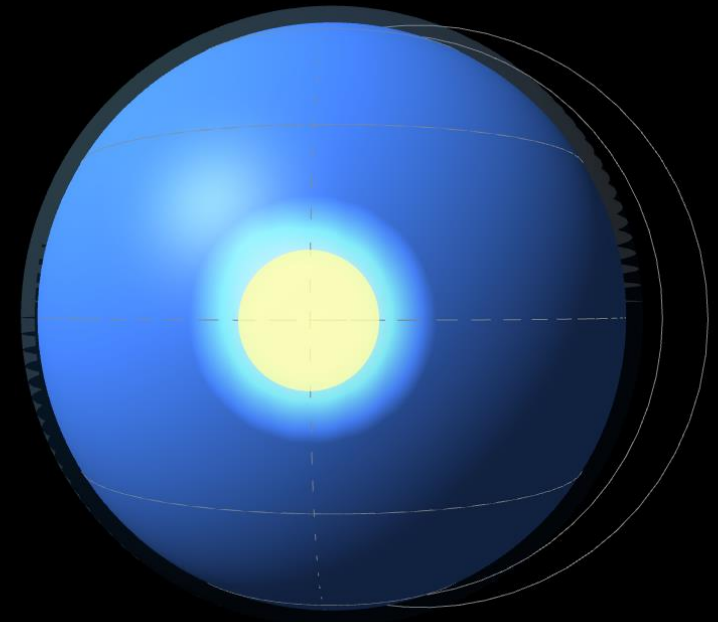
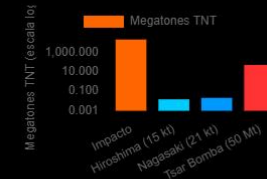
## Parámetros del impacto:

Latitud:   
Longitud:   
Diámetro (m):   
Densidad (kg/m³):   
Velocidad (km/s):   
Eficiencia sísmica:   
Profundidad (km):

[Simular meteorito](#)

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# RESOURCES

- [NASA Near-Earth Object \(NEO\) Web Service Application Programming Interface \(API\)](#)
- [U.S. Geological Survey \(USGS\) National Earthquake Information Center \(NEIC\) Earthquake Catalog](#)
- <https://science.nasa.gov/resource/asteroids-poster-version-a/>
- <https://science.nasa.gov/resource/asteroids-poster-version-b/>