MOON-BASED PLANETARY DEFENSE CAMPAIGN
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1. Launch Massive and Numerous Interceptors from the Moon Using Electromagnetic Launcher

Spacecraft need to expend a lot of fuel to gain altitude while overcoming atmospheric drag (1), then accelerate to 11.2 km/sec to escape the Earth’s gravity (2). A 50-ton interceptor needs a lift by 3,000-ton of lower-stage rockets before it can start its mission.

No need to overcome atmospheric drag or to gain altitude. Electro-magnetic accelerator accelerates spacecraft to 2.42 km/sec to escape the Earth’s gravity without using spacecraft’s on-board fuel. A 50-ton interceptor needs no lower-stage rocket and starts its mission after electromagnetic launch.

2. The Moon Provides Material and Fuel

Space operations cannot be conducted without a reliable source of fuel. A large portion of the spacecraft is fuel and fuel is consumed constantly during active operations.

Electromagnetically accelerates iron to the speed of a bullet > reaction = thrust

3. Armor-Piercing Thermonuclear Warhead

Create tritium from abundant helium-3 on the Moon

$^2H + ^3H \rightarrow ^4He + ^1n + 17.6$ MeV

The interceptor hull penetrates into the asteroid until it stops, and secures itself inside the asteroid and seals the hole made by the warhead.

The $^{238}$U armor-piercing warhead further penetrates into the asteroid before it detonates deep within the asteroid.

1\textsuperscript{This poster does not represent the opinions of the United States Government.}

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