



International Committee on
Global Navigation Satellite Systems

Proliferation of GPS/GNSS Jammer Devices

Disclaimer

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Jamming vs. Spoofing

- Jamming is intended to prevent a receiver from acquiring, tracking, or navigating with GNSS signals
- Spoofing is intended to fool a receiver so it provides false position, navigation, and/or time (PNT)
 - Thus allowing the Spoofer to control the victim's PNT
- Smart-Jamming is intended to cause receivers to acquire false signals, which either:
 - Prevents navigation (*with less power than for jamming*),
 - Or, causes false (*but uncontrolled*) PNT results



What Are Jammers?

Generally includes devices commonly called signal blockers, GPS jammers, cell phone jammers, text blockers, etc

- Illegal radio frequency transmitters
- Designed to block, jam, or otherwise interfere with authorized radio communications

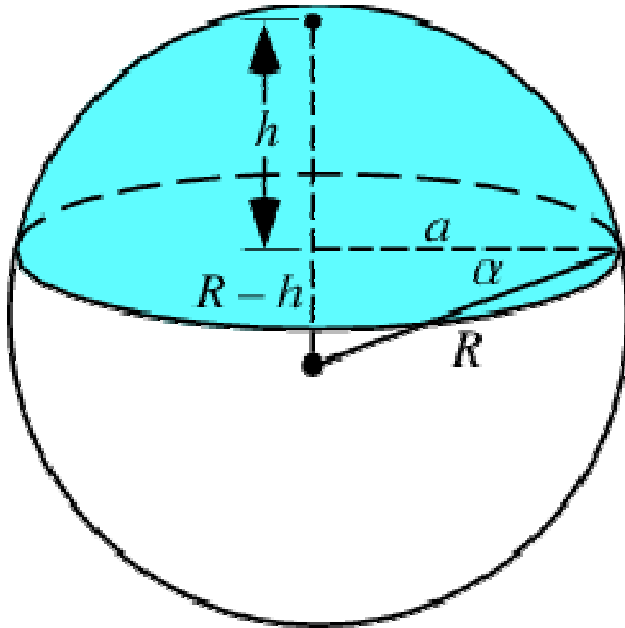


How do jammers work?

- A jammer can *block all radio communications* on any device that operates on radio frequencies within its range.
- *Emits radio frequency waves* that prevent the targeted device from establishing or maintaining a connection.
- Generally *does not discriminate* between desirable and undesirable communications.
- Jammers can:
 - prevent your cell phone from making or receiving calls, text messages, and emails;
 - prevent your Wi-Fi enabled device from connecting to the Internet;
 - prevent your GPS unit from receiving correct positioning signals; and
 - prevent a first responder from locating you in an emergency.



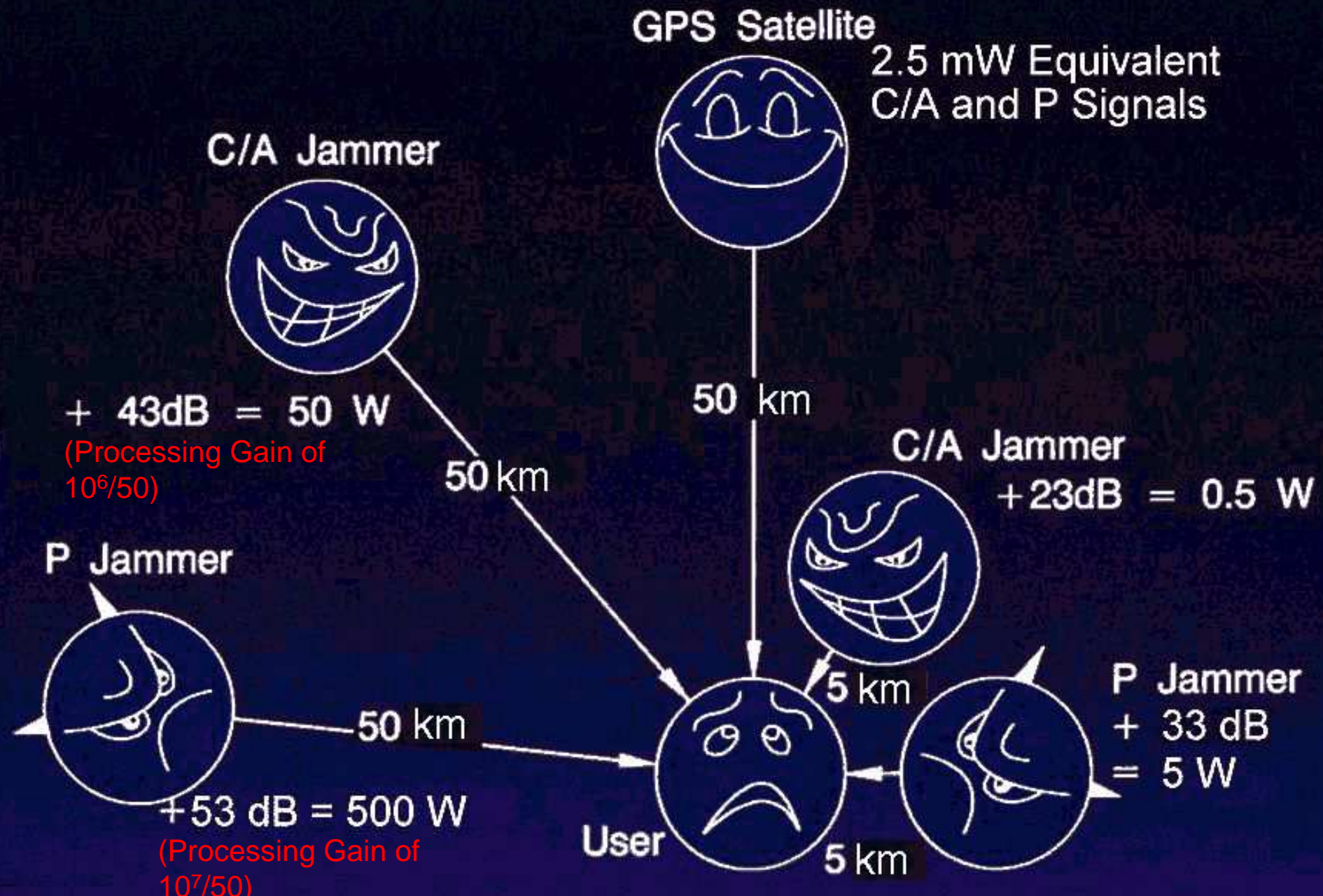
Received GPS Signals are Weak



GPS defines the minimum C/A “open sky” signal power to be -158.5 dBW, 11 times weaker than calculated here

- Signals from each GPS satellite cover 38% of the earth or 194,244,017 sq km
- A 50 watt GPS transmitter thus provides $\sim 2.6E-13$ Watts per square meter on the earth
- A hemispheric L1 antenna “capture area” is ~ 0.006 m
- Received signal power thus is $\sim 1.5E-15$ Watts (-148 dBW) or $\sim 1.5E-12$ mW (-118 dBm)
- Very weak signals!!!

The Near/Far Problem



Jamming Sources

- Thrill seekers – interrupt GPS “for the fun of it”
- “Privacy” jammers, e.g., cigarette lighter devices
- Criminals
- Terrorists
- Government authorized services
 - Powerful adjacent channel signals causing overload
 - Higher order intermodulation products, e.g., $2f_1 - f_2$



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Home > GPS Jammers

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GPS Jammers

To prevent GPS monitoring on your person, cell phone, or vehicle, a GPS signal blocker will stop tracking signals. Maintain your privacy, keep your movements private, and avoid unauthorized surveillance by utilizing a jamming device.


GPS Jammer ★★★★☆ ~~\$499.00~~ \$119.00



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Questions?