

# GPS Spoofing: Pilot QRH - Hotspots and What To Expect

OPSGROUP Team  
13 November, 2023

**GPS Spoofing Hotspots Pilot QRH**  
14 Nov 2023

This quick reference shows the **hotspots** for the new GPS Spoofing incidents. There are only 3 areas where spoofing (fake signal) has been seen. Each aircraft is different, but the key **pilot action** is to de-select GPS as a sensor input - before entering these areas, or immediately on discovering spoofing.

**What to expect**

**1 Baghdad FIR (Iraq)** Hotspot is UMM88 RAYD-VAXEN (30+ reports). Also **Tehran FIR** (Iran), **Baku FIR** (Azerbaijan), **Ankara FIR** (Turkey).

**2 Cairo FIR (Egypt)** Hotspots are LSAG, esp. near waypoint SERMA, and near CVD VOR (15+ reports). Also **Nicosia FIR** (Cyprus).

**3 Tel Aviv FIR (Israel)** Hotspot is departures from LLBG/Tel Aviv. Also **Amman FIR** (Jordan) - arrivals into GJAM/DJAL.

Spoofed position will usually show ORB as present soon on TD 50-80nm track errors. Spoofing lasts 10-30 minutes. RS fail common. Mostly enroute aircraft.

Spoofed position will show LLBG or HECA as present soon. Even 20-40 minutes. RS failure less common. Mostly affecting enroute aircraft.

Nav fail on arrival/departure. Spoofed position may show DJBA (Beirut) as present soon. Immediate track errors. Spoofing short duration.

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There are only 3 areas where spoofing (fake signal) has been seen. Each aircraft is different, but the key pilot action is to de-select GPS as a sensor input - before entering these areas, or immediately on discovering spoofing.

**Download** the OPSGROUP GPS Spoofing Hotspots - Pilot QRH (14 Nov 2023)

# GPS Spoofing Hotspots

## Pilot QRH

14 Nov 2023



This quick reference shows the **hotspots** for the new GPS Spoofing incidents. There are only 3 areas where spoofing (fake signal) has been seen. Each aircraft is different, but the key **pilot action** is to de-select GPS as a sensor input - before entering these areas, or immediately on discovering spoofing.



### What to expect



**1 Baghdad FIR (Iraq).** Hotspot is UM688 RATVO-VAXEN (30+ reports). Also **Tehran FIR** (Iran), **Baku FIR** (Azerbaijan), **Ankara FIR** (Turkey).

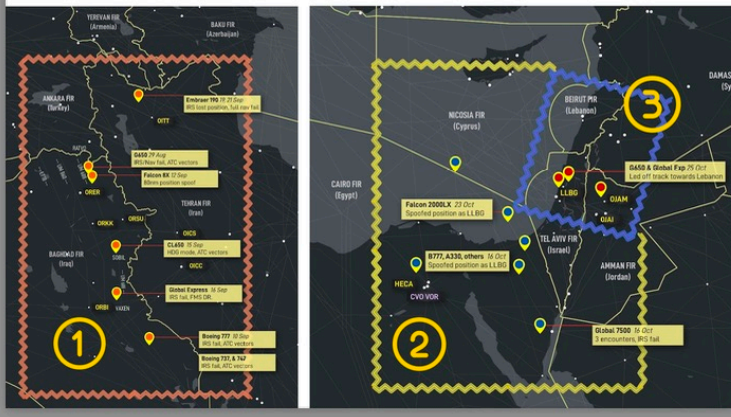
Spoofed position will usually show ORBI as present posn on ND. 60-80nm track errors. Spoofing lasts 10-30 minutes. IRS fail common. Mostly enroute aircraft.

**2 Cairo FIR (Egypt).** Hotspots are L560, esp. near waypoint SERMA, and near CVO VOR (15+ reports). Also **Nicosia FIR** (Cyprus).

Spoofed position will show LLBG or HECA as present posn. Event 20-40 minutes. IRS failure less common. Mostly affecting enroute aircraft.

**3 Tel Aviv FIR (Israel).** Hotspot is departures from LLBG/Tel Aviv. Also **Amman FIR** (Jordan) - arrivals into OJAM/OJAI.

Nav fail on arrival/departure. Spoofed position may show OLBA (Beirut) as present posn. Immediate track errors. Spoofing short duration.



### For further on this topic:

- GPS Spoofing update (Nov 8, 2023)
- GPS Spoofing: FAA warning (Sep 28, 2023)
- GPS Spoofing: First reports (Sep 26, 2023)