

# Jamming of the Newest Receiver Generation G. Stangl

**BEV - Bundesamt für Eich- und Vermessungswesen**



## BEV tested new receivers at Vienna:

- Trimble NetR5, Leica GRX1200GNSS, JAVAD Triumph-1, TPS E\_GGD, TPS GB1000
- Except the Topcon receivers all receivers lost GLONASS signals and most of the L2, Topcon L2 signals 20 dB loss
- Tests repeated at other Austrian sites with different success

## Remarks from the Ministry of Traffic, Innovation and Technology:

- There are Primary users of frequencies 1164-1300 MHz: GPS, GLONASS, GALILEO, Military Broadcasters
- Secondary users , like amateur broadcasts and ultra wide band broadcasters, should not disturb primary users, but practice to forbid it is difficult
- New users, like wind profilers and GSM/GNSS jammers, are not regulated
- **Advice: Buy receivers with antijamming**

## Potential Consequences for EPN:

- When exchanging old by new receivers problems of non-functioning may arise
- Guidelines for EPN stations 2.2.3 (signal reception quality ...) seem to be sufficient
- Question 1: Is this an international phenomenon (IGS Mails 6294+6295)?
- Question 2: Is any refinement in the guidelines necessary?