

# Wireless Communication Tests, maneuvers in wind, high accelerations, and global positioning



- Detect effects of wind and atmospheric forces
- Quantify added weights on-board
- Highlight external forces via maneuvers
- Feasibility of chip-sized RTK-GPS
- **XBee/Wireless Communication Tests**
- Quality & reliability metrics



3 GPS quadrotor

← 20 meters  
← 15 meters  
← 10 meters  
← 5 meters

RSSI  
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RSSI

Base

25m increments

GPS readings from 3 devices, 2 with RTK capability at each increment.

