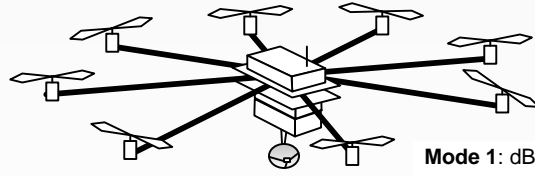


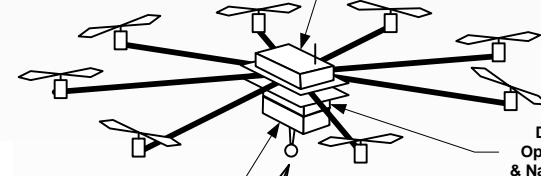


# Drone-Based Field Measurement System (dB-FMS)™

by Kirt Blattenberger, RFCafe.com © 2014



**Mode 1:** dB-FMS drone makes measurements at predefined x,y,z coordinates to build 3-D map.  
**Mode 3:** Similar to Mode 1, but measuring only at a few specific points.

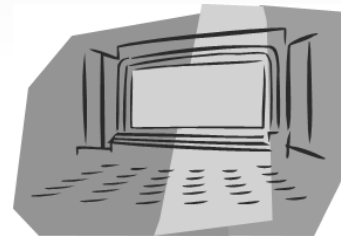
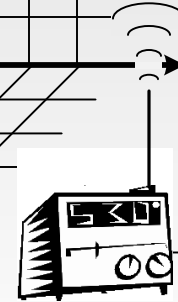
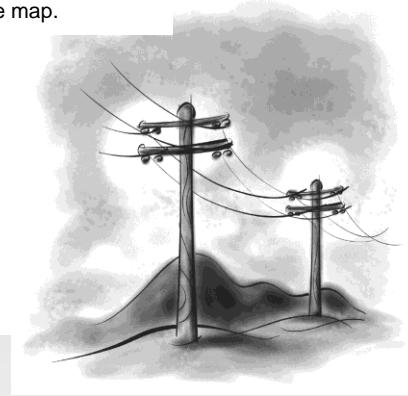
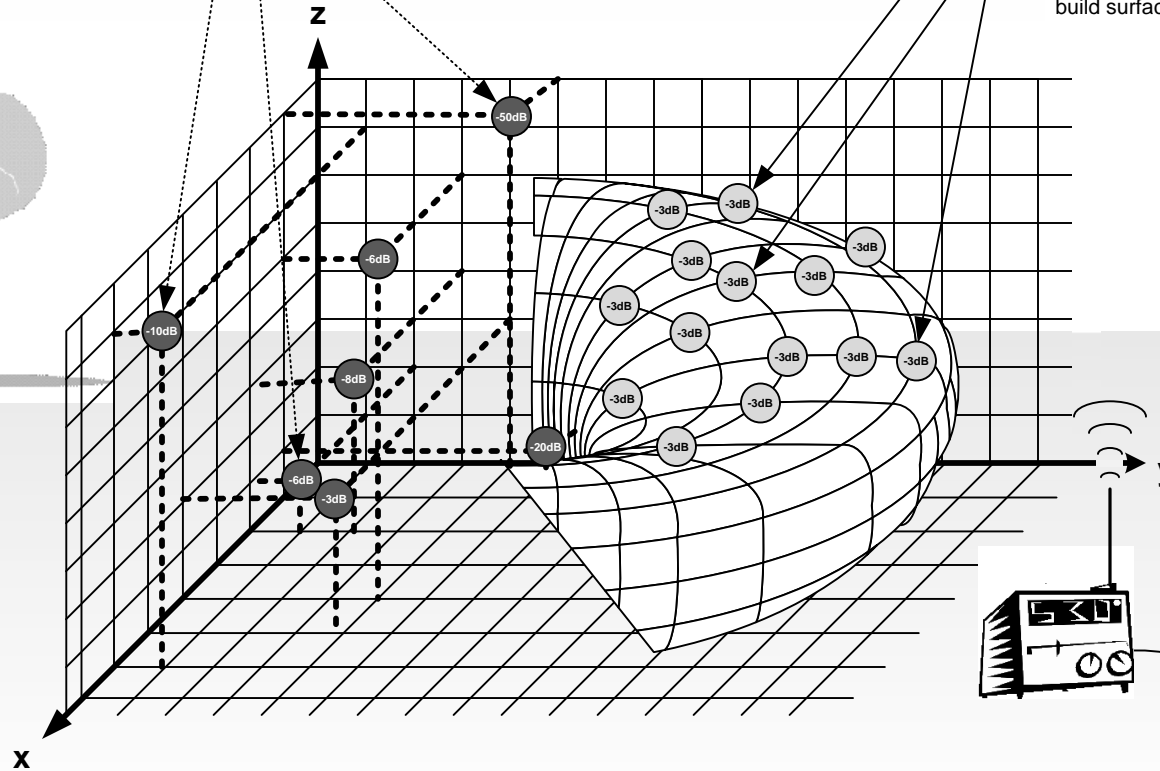
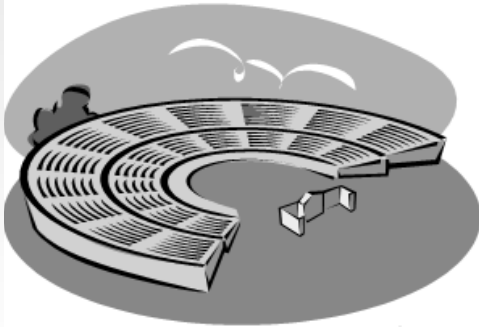


Data Collection, Processing, Storage & Telemetry

Drone Operation & Navigation

Field Strength Measurement Instrumentation with Sensor(s)

**Mode 2:** dB-FMS drone seeks equipotential surfaces, records x,y,z coordinates to build surface map.



Field measurement space may be outdoors (open air, dense urban, hazardous environment) or indoors (warehouse, theater, factory, office). Drone-based sensors may measure RF/microwave field levels (radio, radar, wireless), acoustic levels (human hearing realm and beyond), light levels (visible, infrared, ultraviolet), subatomic particle levels, gas levels, particulate levels, etc. Directional or non-directional sensors can be used.

Multi-copter configuration of 6 or more lifting rotors preferred to facilitate non-catastrophic recovery from rotor failure.