

OK1KIR vs G4NNS 2nd JT4G trial on 23.09.2011 (08:00 till 11:00 UT)

- **Measurements**

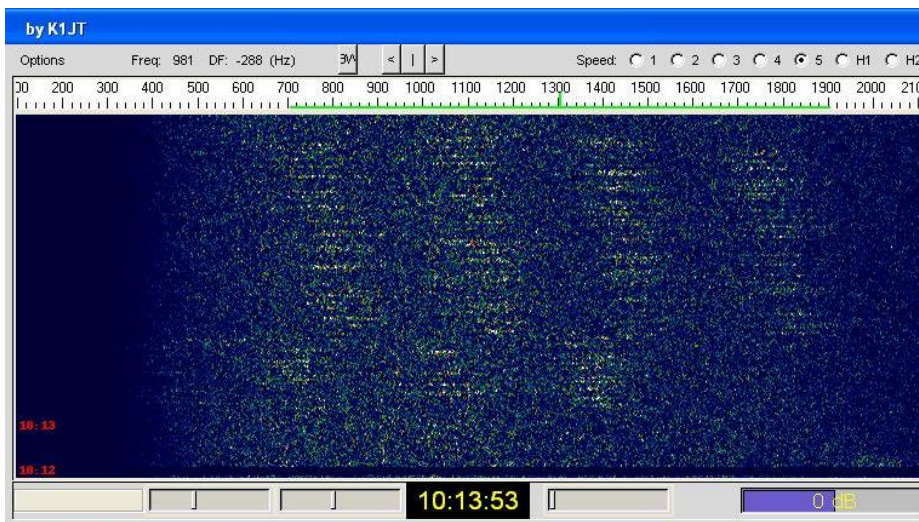
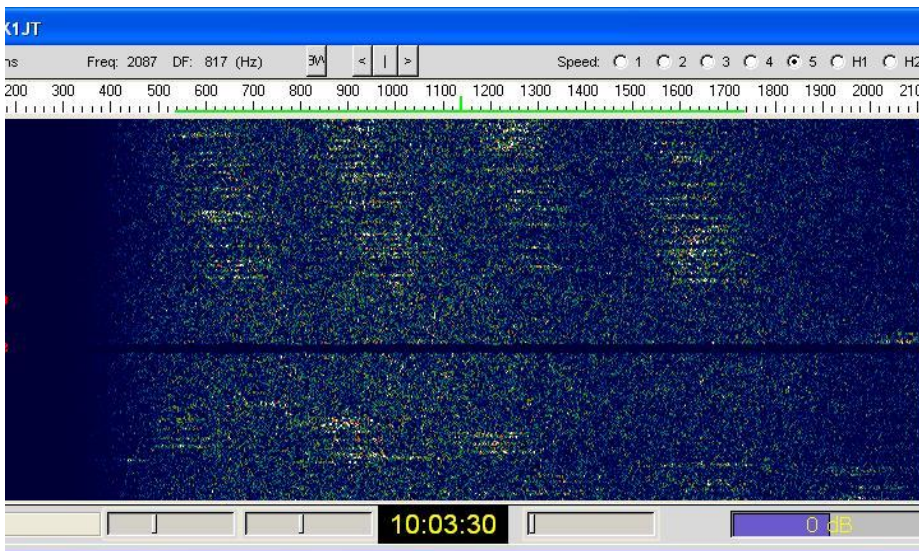
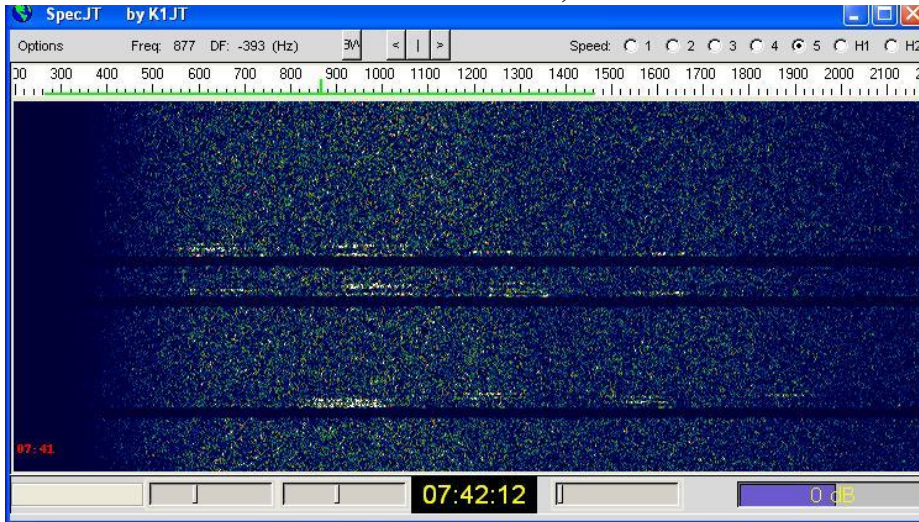
08:05 UT: RH 70%, Moon 2.1dB/EL 44, Sun=13.6dB/SF150/28°, G/CS=3.0dB/20°,3.2dB/33°,3.3dB/44°,

10:30 UT: RH 50%, Moon 1.9dB/EL 37, Sun=13.6dB/SF150/39°, G/CS=2.7dB max

Clear sky morning, later on sometimes light clouds

Spread predicted: 08:00 UT: **410 Hz** *(0.2/0.5) \approx **164 Hz**, 10:30 UT: **350 Hz** *(0.2/0.5) \approx **140 Hz**,

- **Screenshots JT4G: own echoes at 07:42, G4NNS at 10:03 and 10:13 UT**



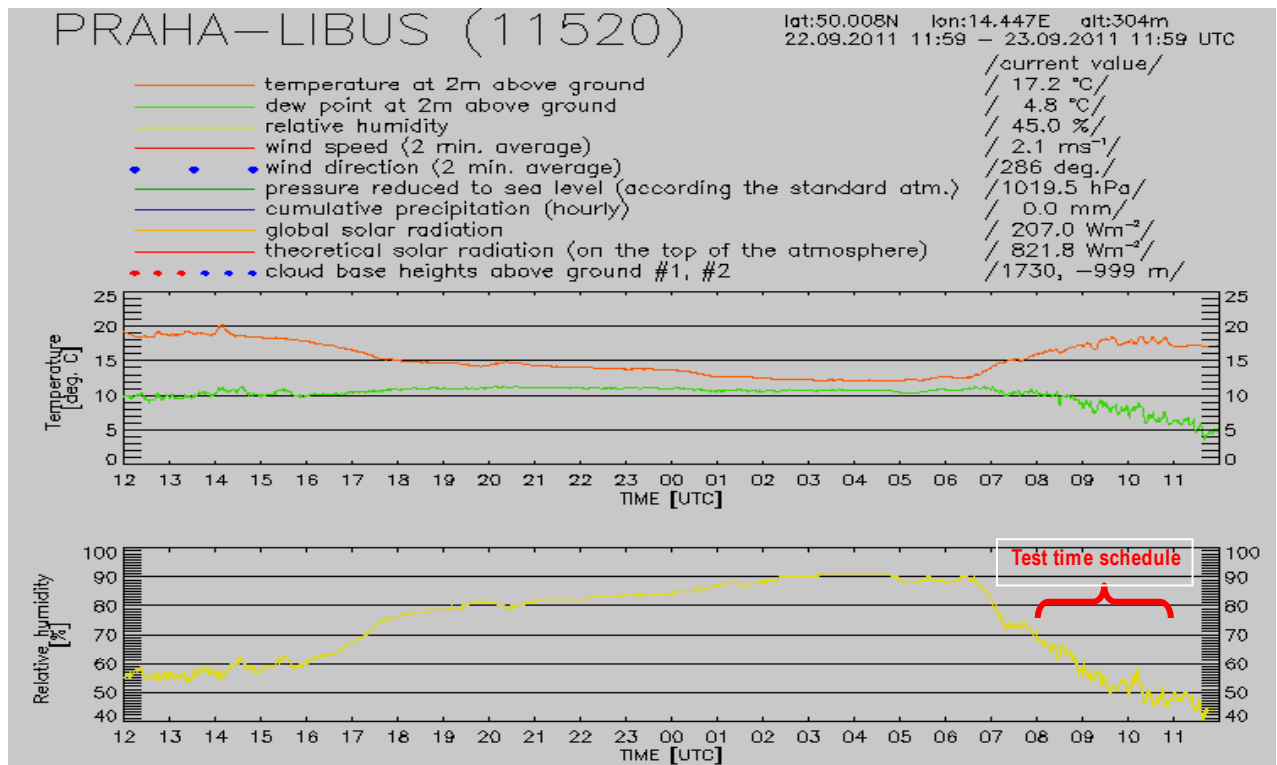
Conclusions:

- No one decode obtained
- Trouble with proper tuning to held all four tones in the window due to too fast Doppler
- Signal too weak when having such too wide spread
- Needs stronger signal and-or lower spread

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WX conditions in Prague area during the test:

- Picture below (24 hrs temperature and humidity profile at ground level) indicates high humidity during night (up to 90%) decreasing rapidly with the sunshine morning down to even under 50% at the end of test when Moon's elevation went down from 44° at 08:05UT to 37° at 10:30UT.



- Vertical atmosphere profiles (next page) of air temperature (red line) and dew point (blue line) in Prague area taken on Fri 23.09.2011 at 06:00 and 12:00 UT confirm high humidity through the night till early morning and rapid decrease afterwards due to sunshine heating.

