

29 October 2008

INGV – Roma

Bevagna experiment

UR6-UR8



**Istituto
Nazionale
di Geofisica
e Vulcanologia**

The **BVG** station of the Italian RAN



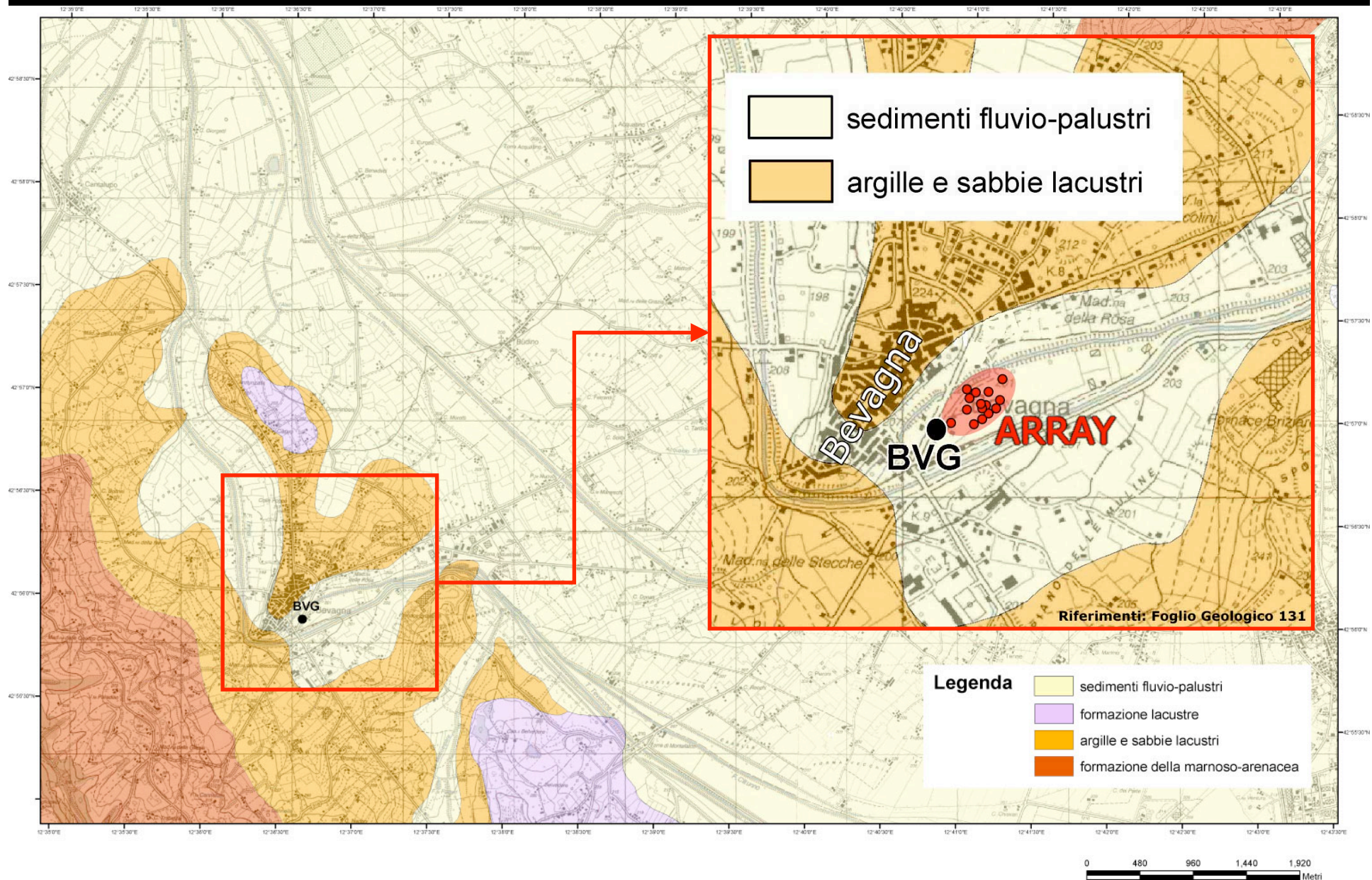
BVG coordinates (WGS84)
42.932389 - 12.611056



Box ENEL PG4E07

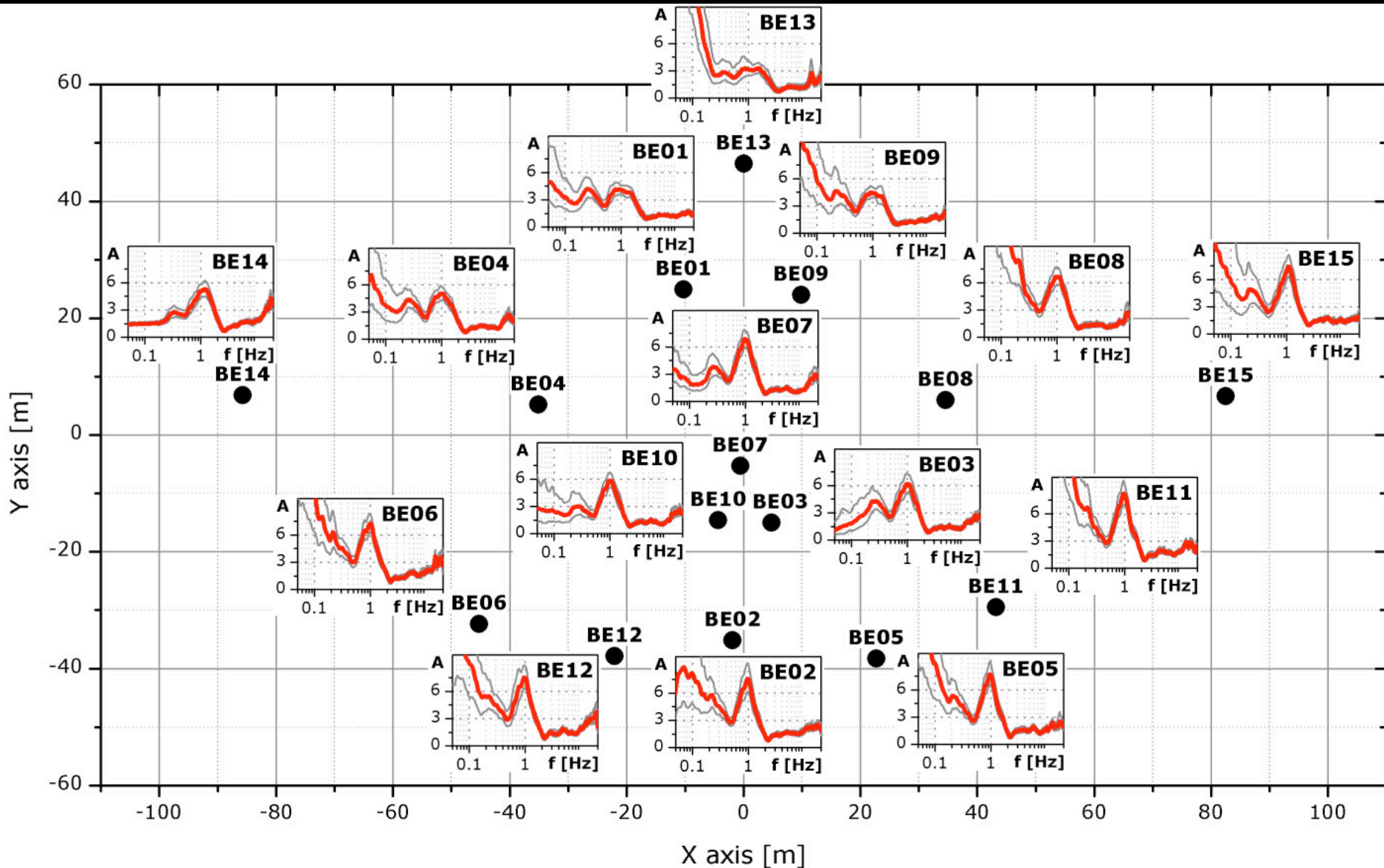
Sensor
Kinematics SMA-1 (analog)

Geological map



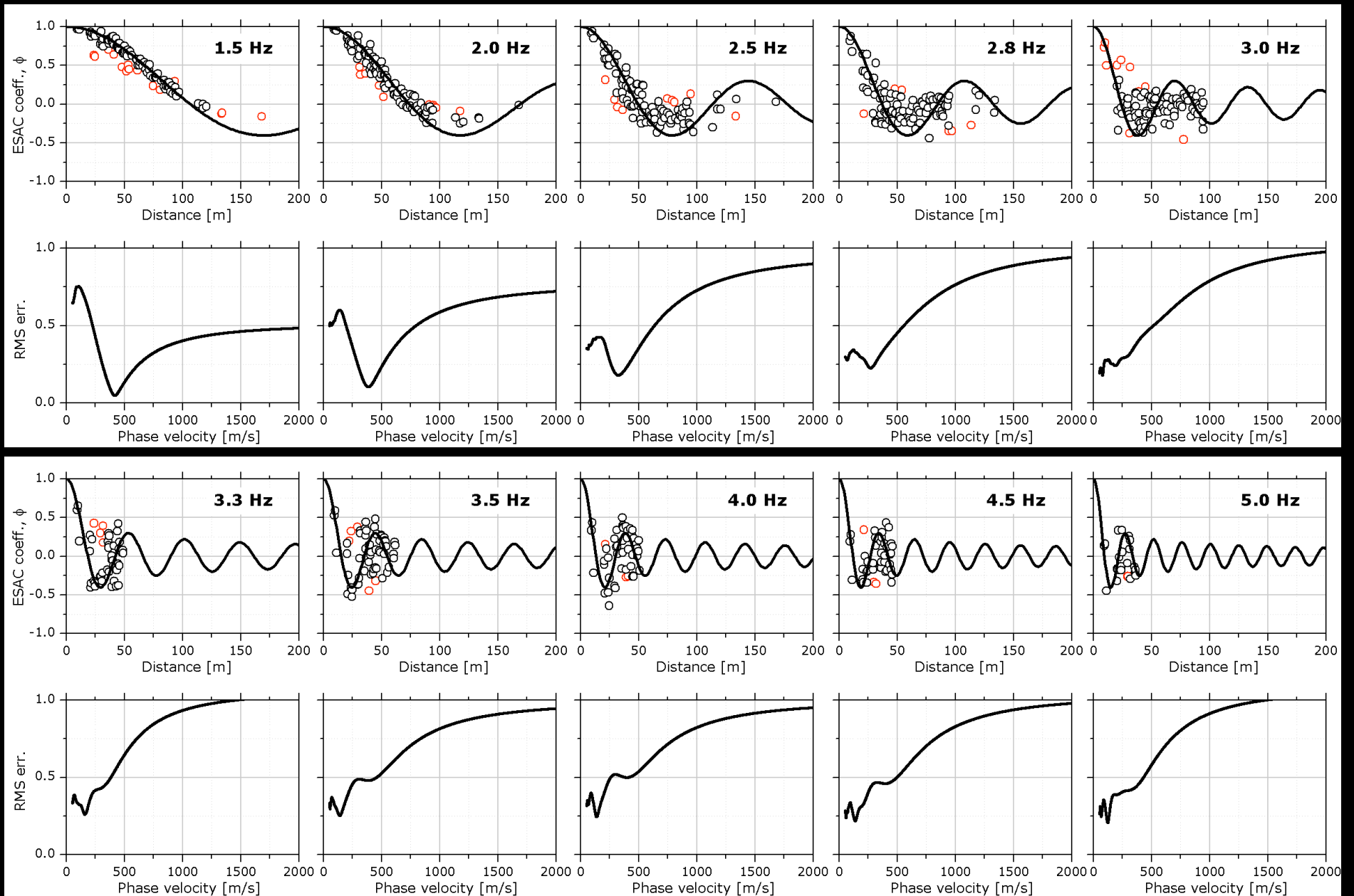
Noise H/V analyses of the array

(Sensors type = Lennartz LE-3D/5s)

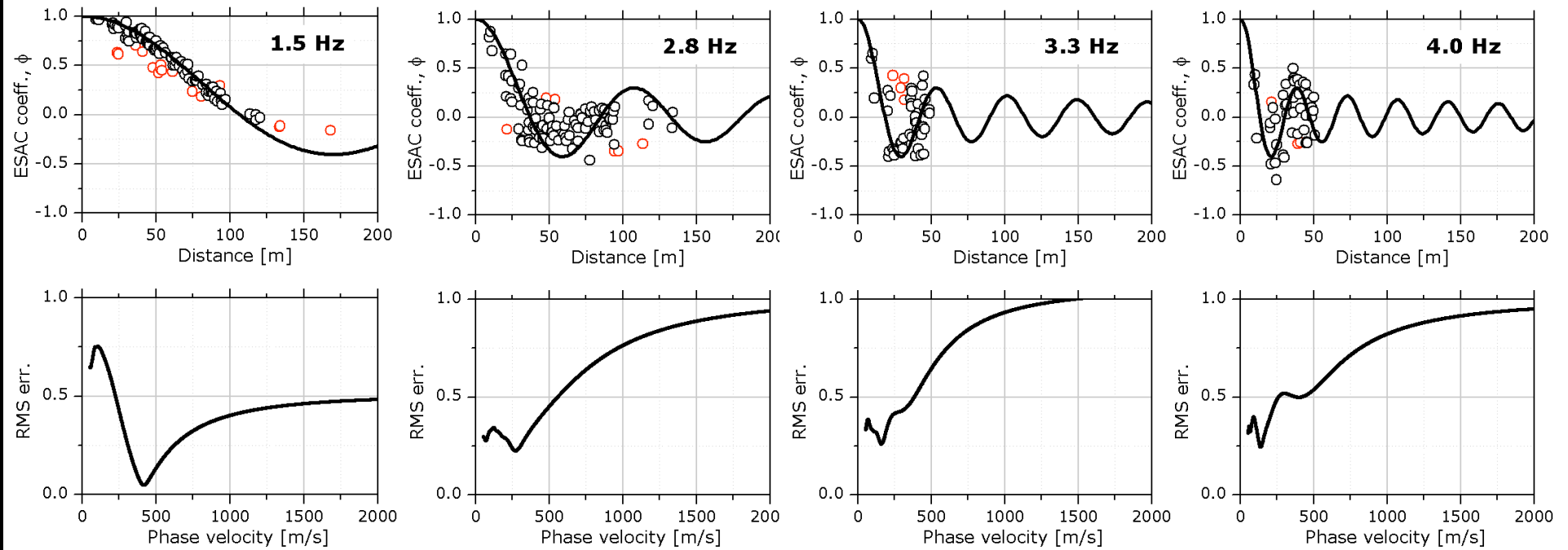


Noise H/V parameters: window length = 200 s; Konno & Ohmachi $b = 40$

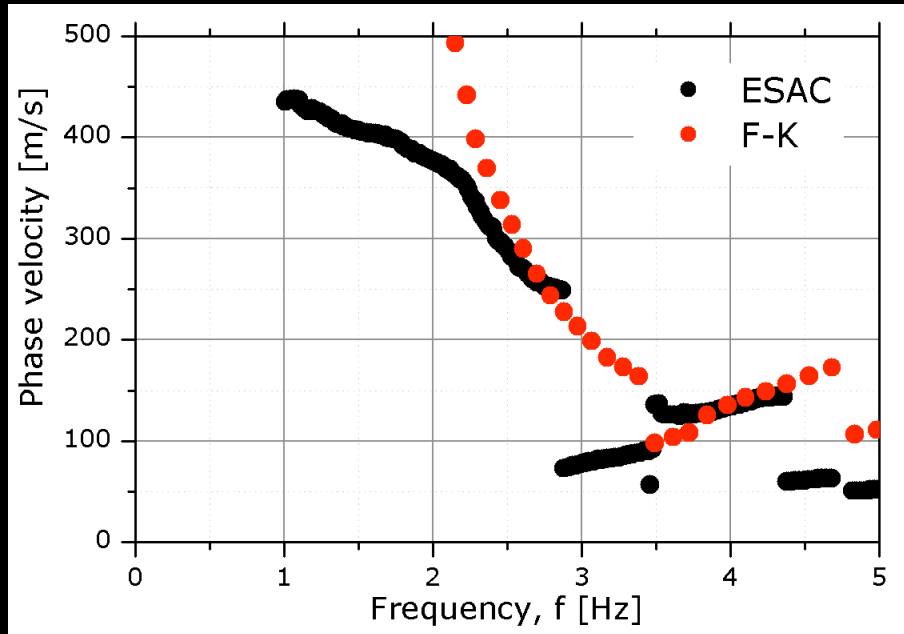
ESAC coefficients and best-fitting Bessel function for different frequencies



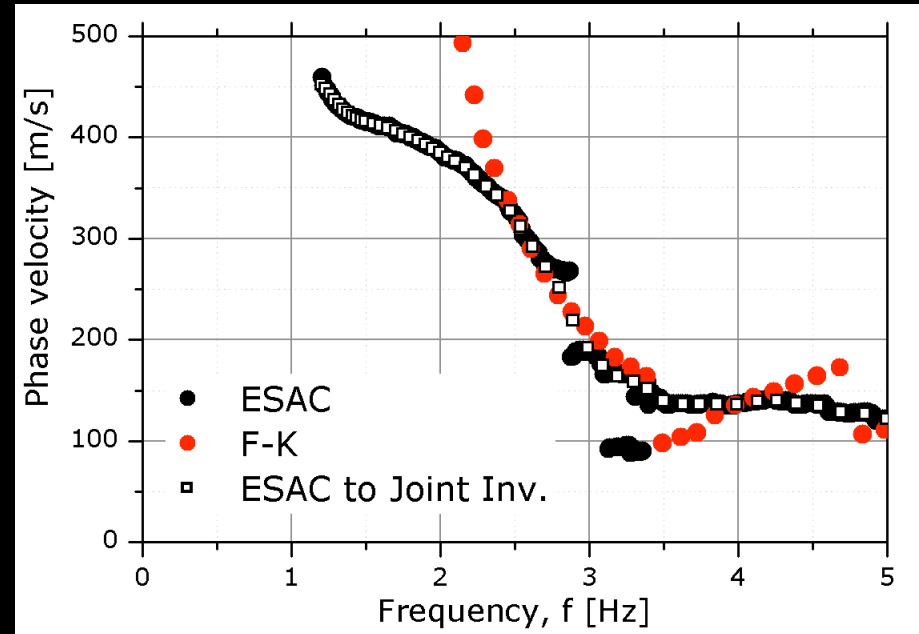
ESAC coefficients and best-fitting Bessel function for different frequencies



Dispersion curves ESAC vs. F-K

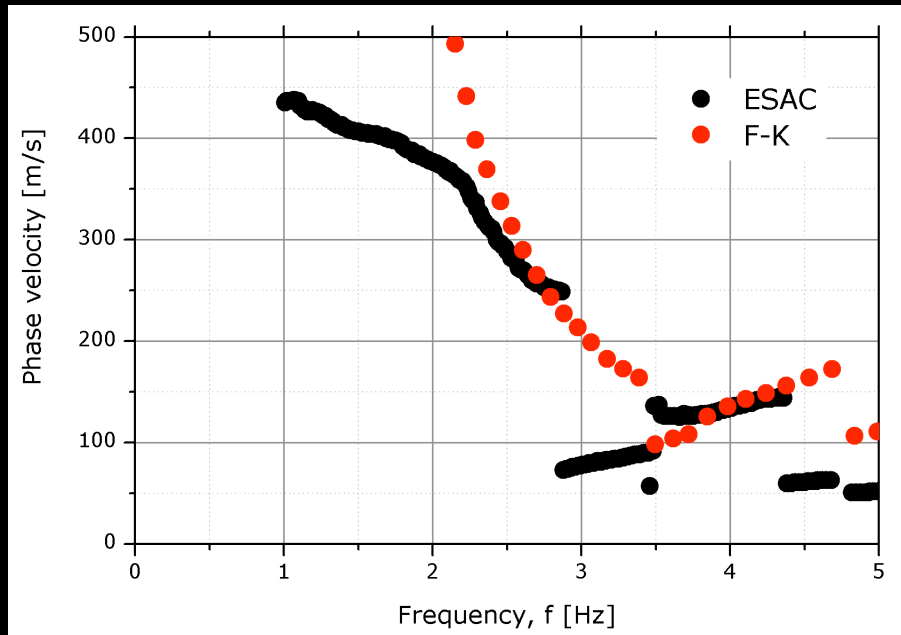


Dispersion curve with a classical approach

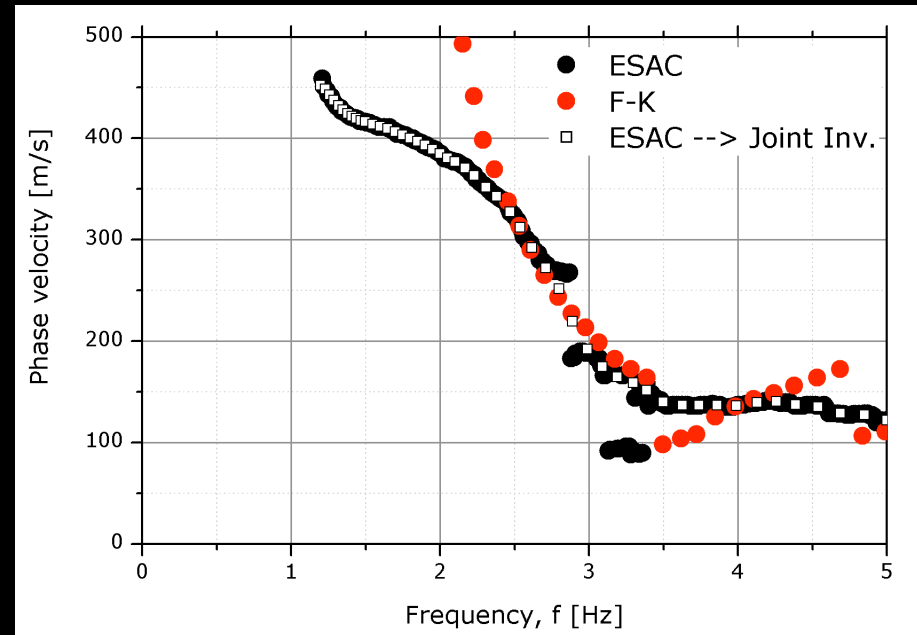


- ESAC dispersion curve considering only the stations with distance $< 1.5 \lambda$
- ◻ ESAC disp. curve used for the inversion

Dispersion curves ESAC vs. F-K



Dispersion curve with a classical approach

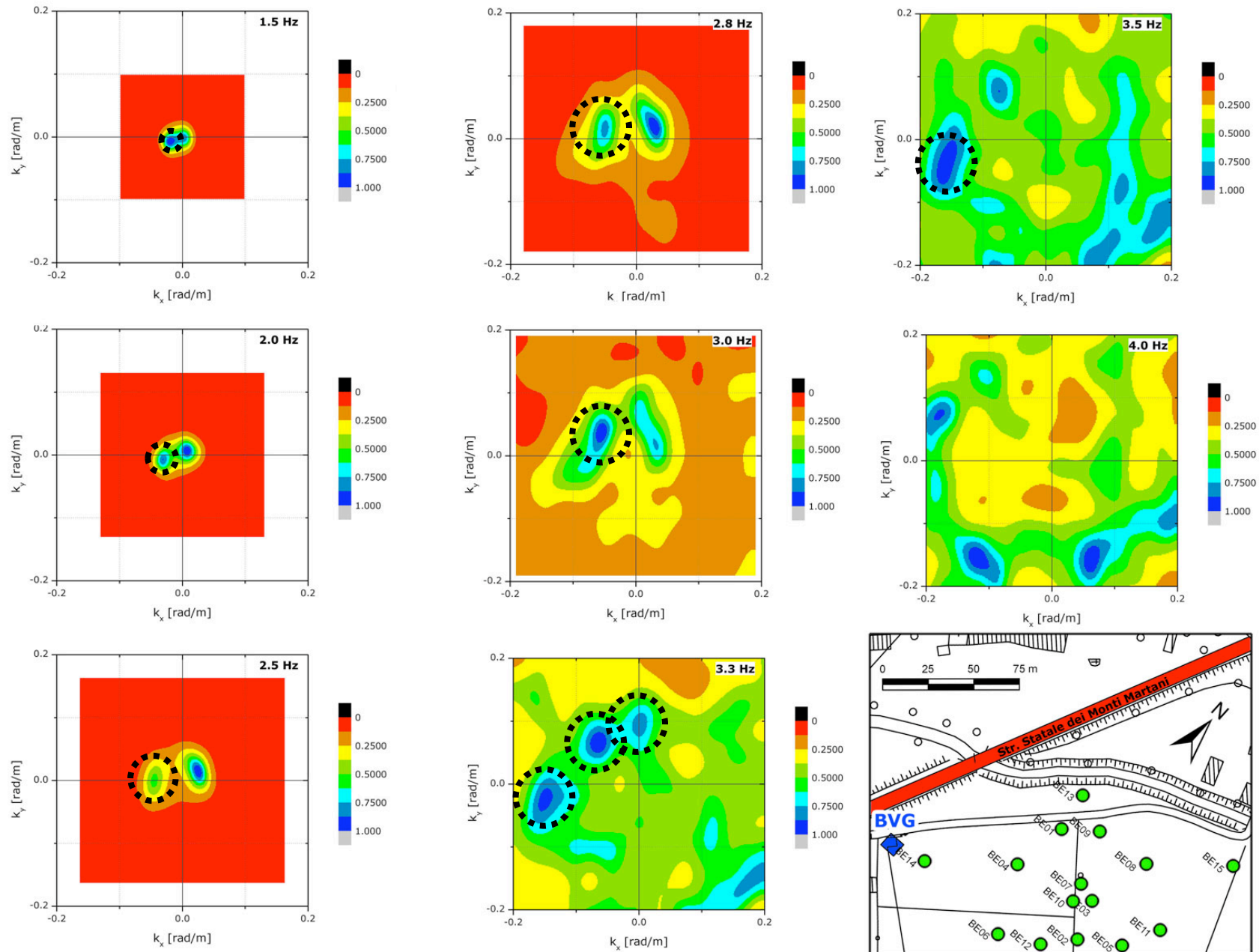


- 1) ESAC dispersion curve considering only the stations with distance $< 1.5 \lambda$
- 2) ESAC disp. curve used for the inversion

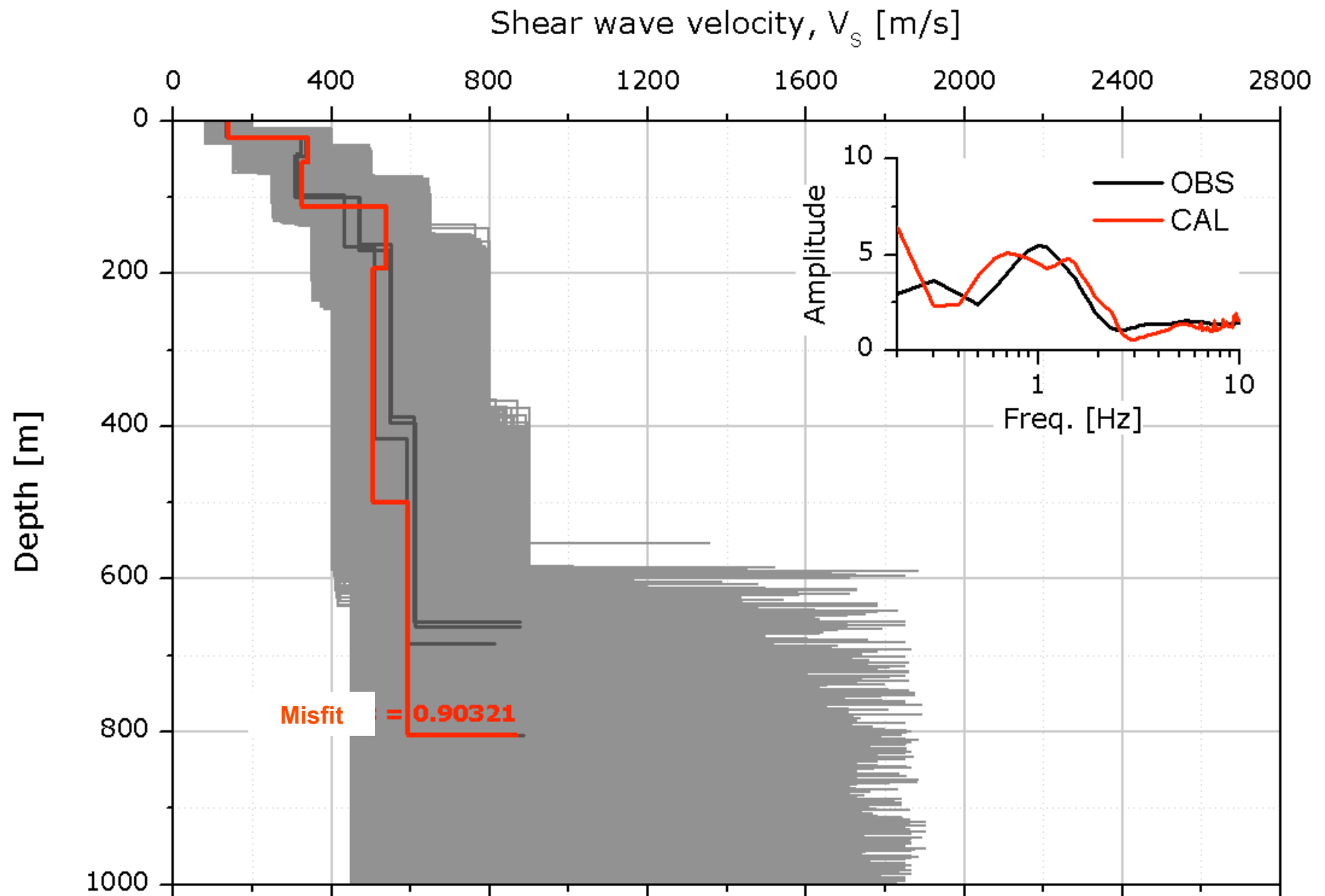
F-K analysis



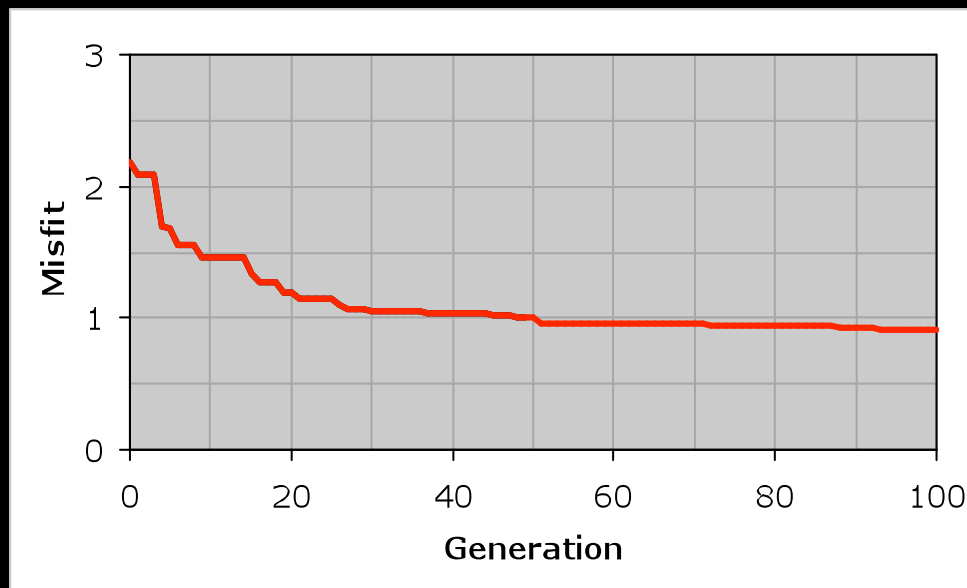
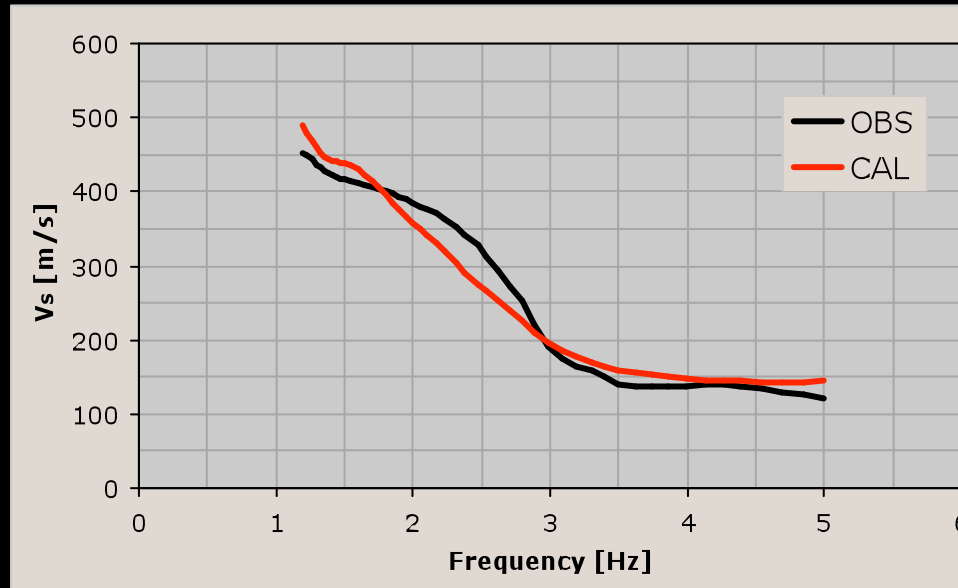
Peak - probably due to the Statale street noise



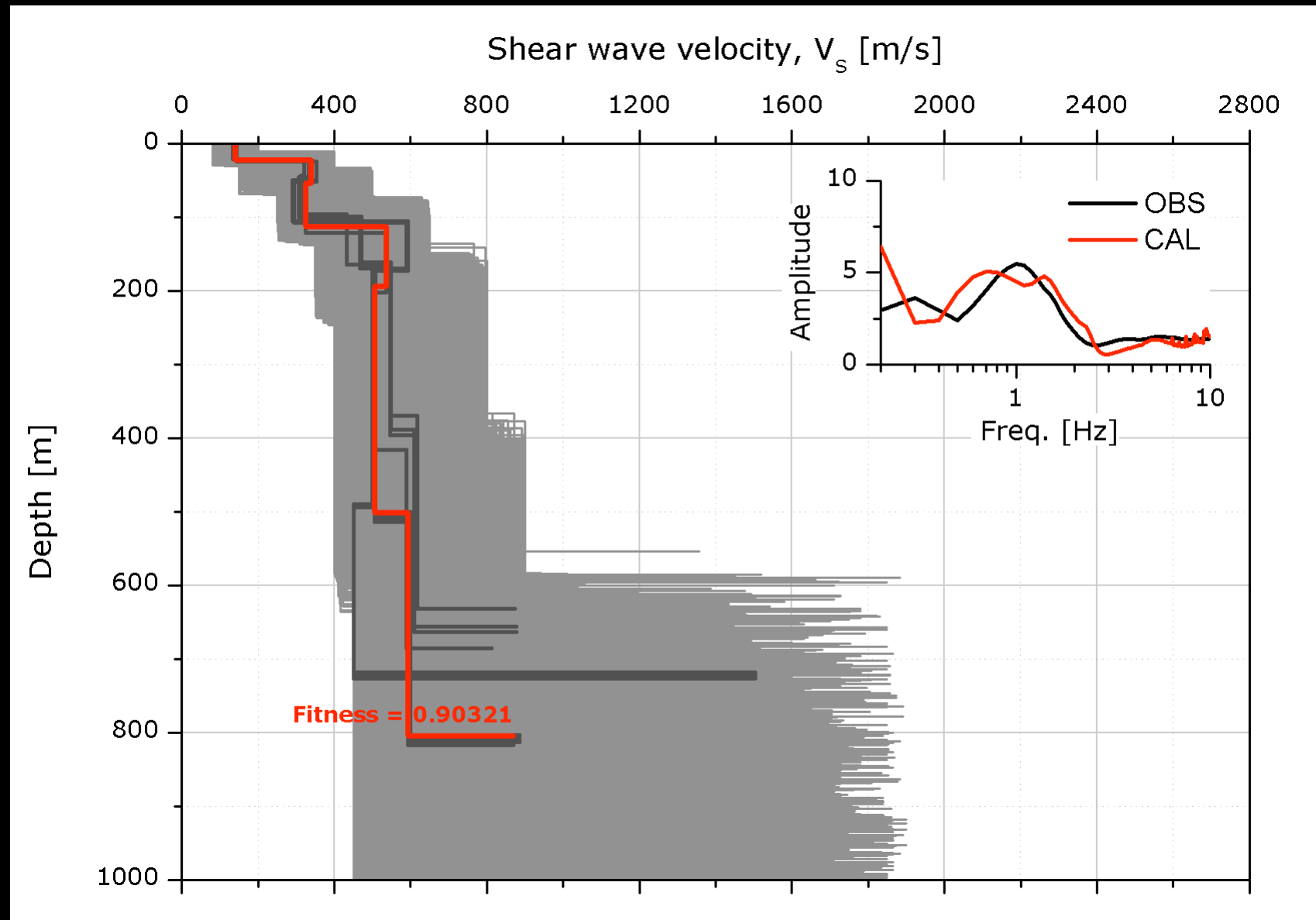
Joint inversion Bevagna



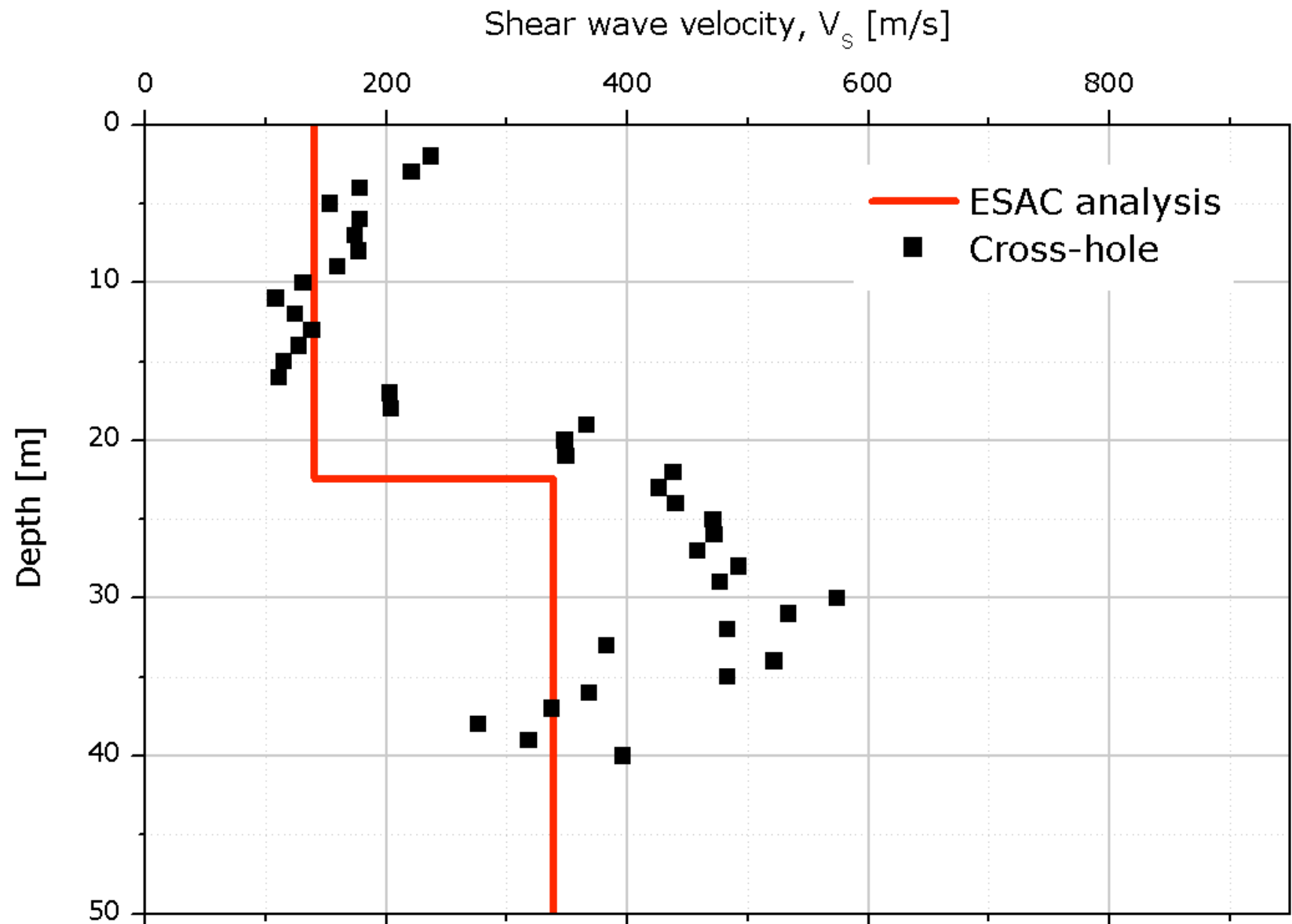
Joint inversion Bevagna



Joint inversion Bevagna



Joint inversion **vs.** Cross-Hole



Joint inversion **vs.** Cross-Hole

