

Broadband Seismometer Array Optimization

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EINSTEIN
TELESCOPE

With funding from the:



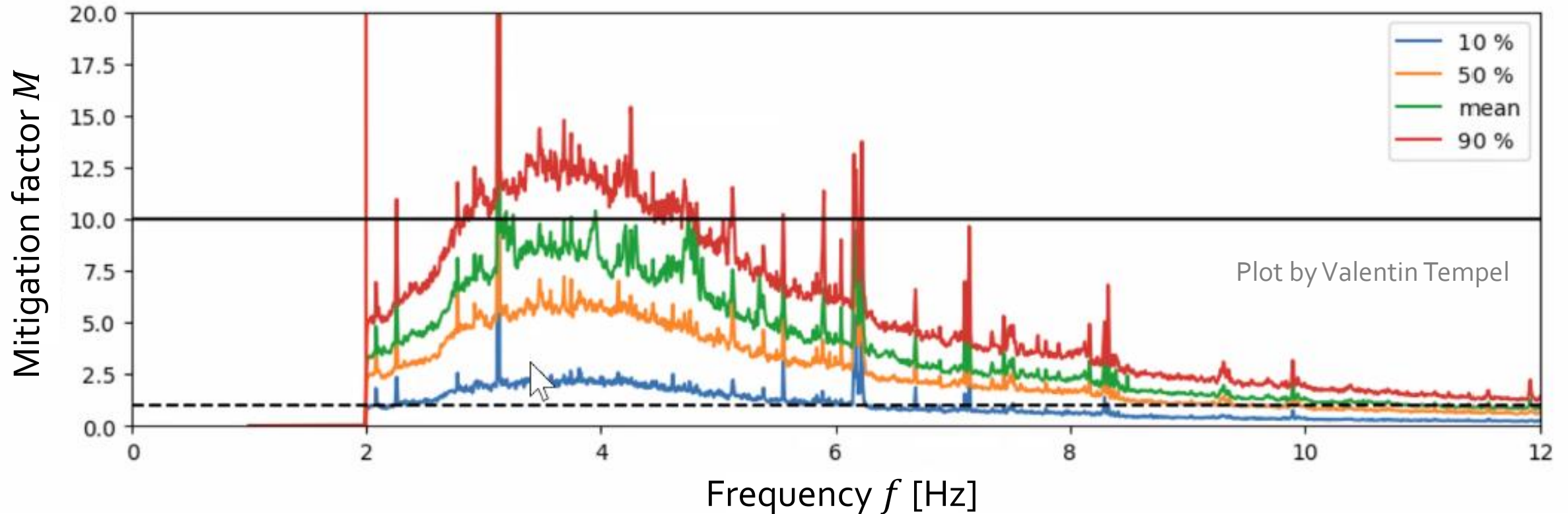
Federal Ministry
of Research, Technology
and Space



III. Physikalisches
Institut A

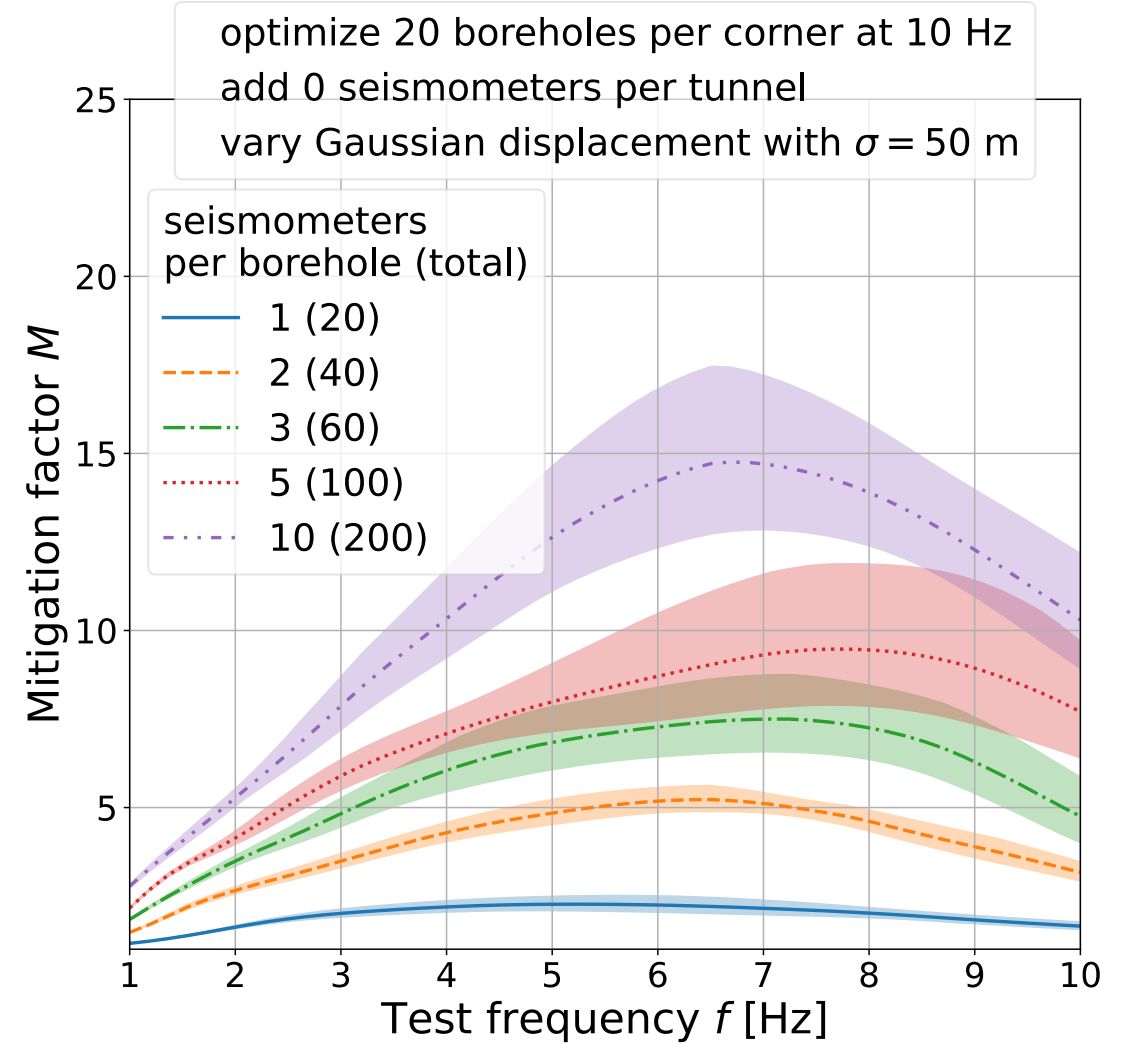
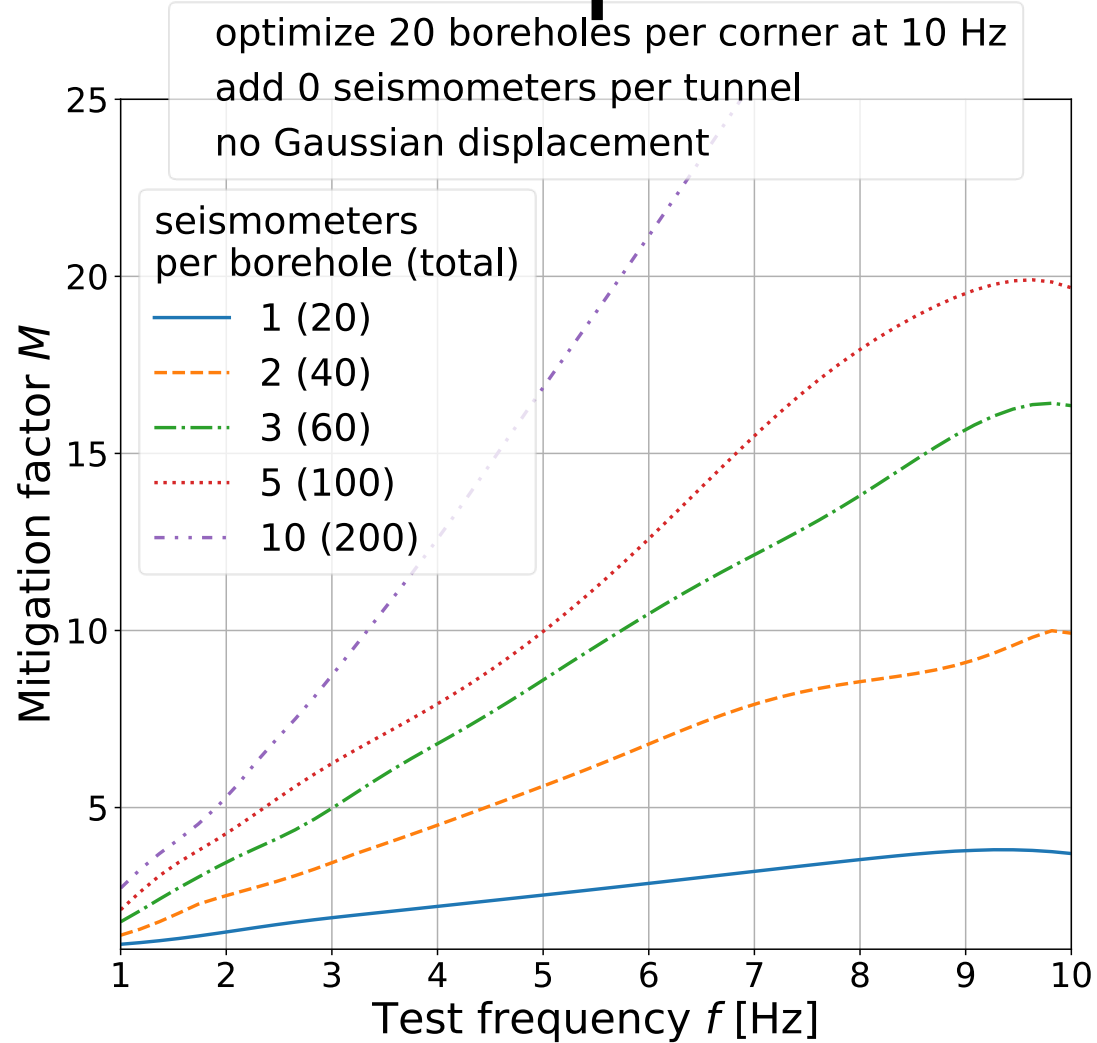
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How much mitigation do we need?

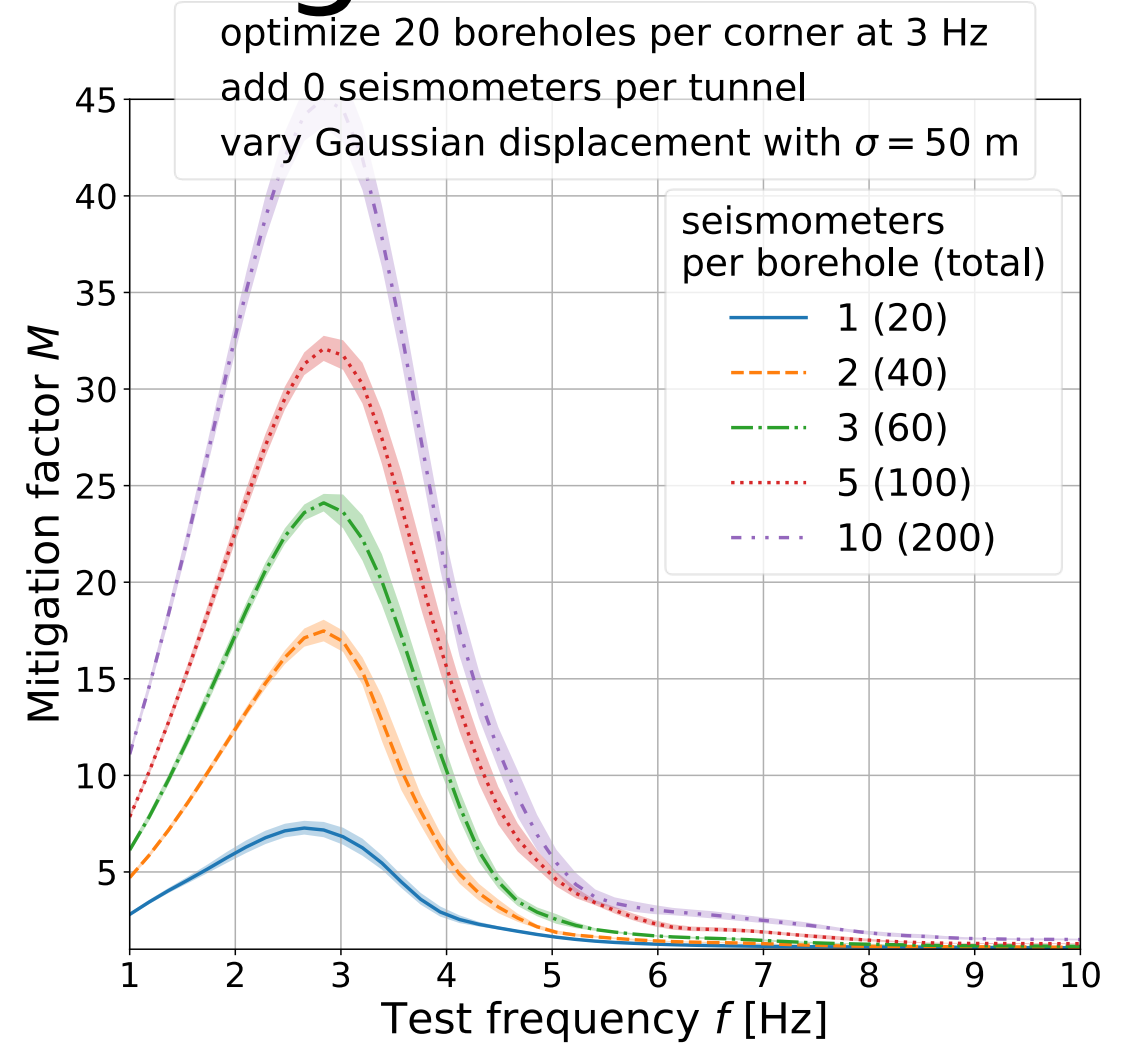
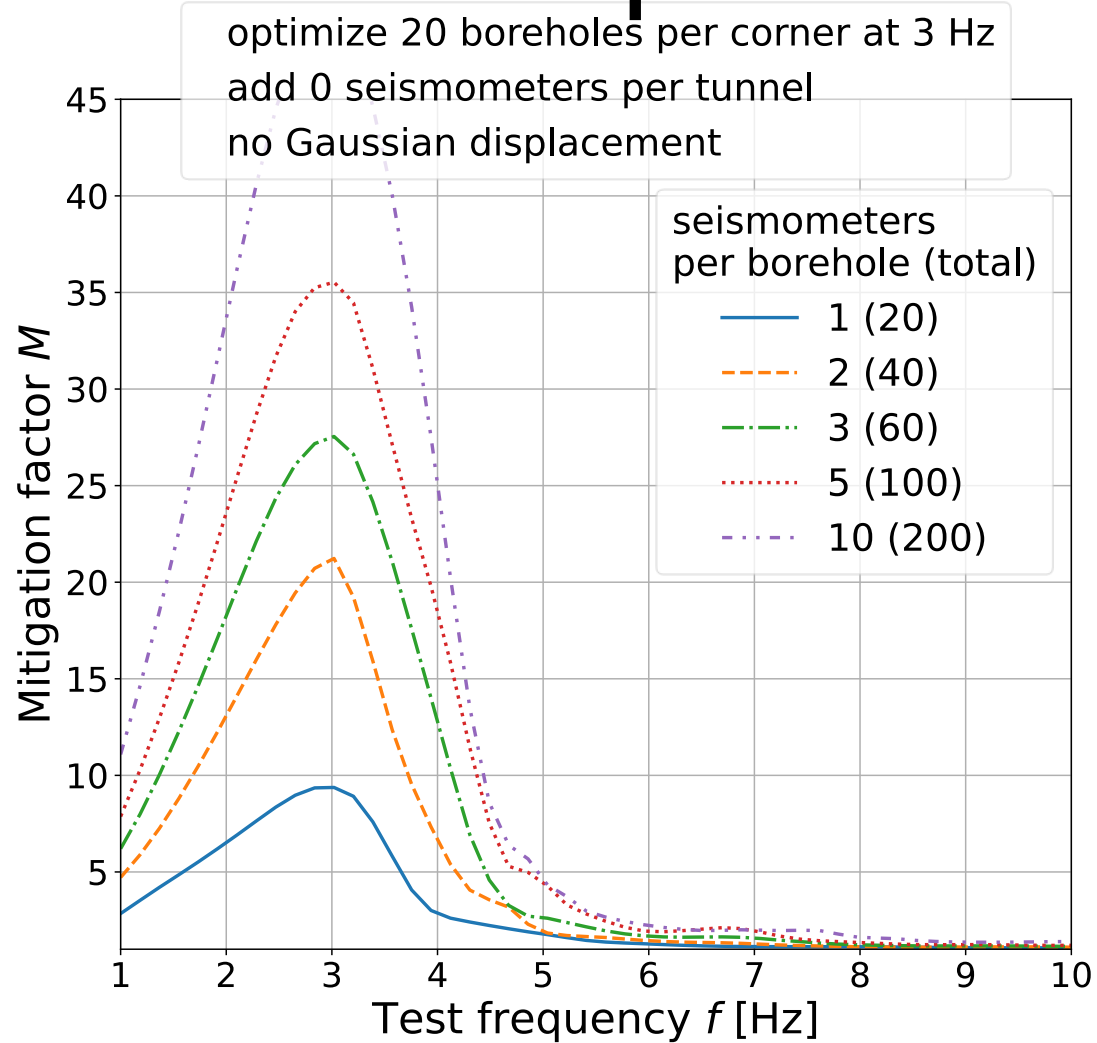


→ necessary mitigation M factor for EMR-site to reach design sensitivity

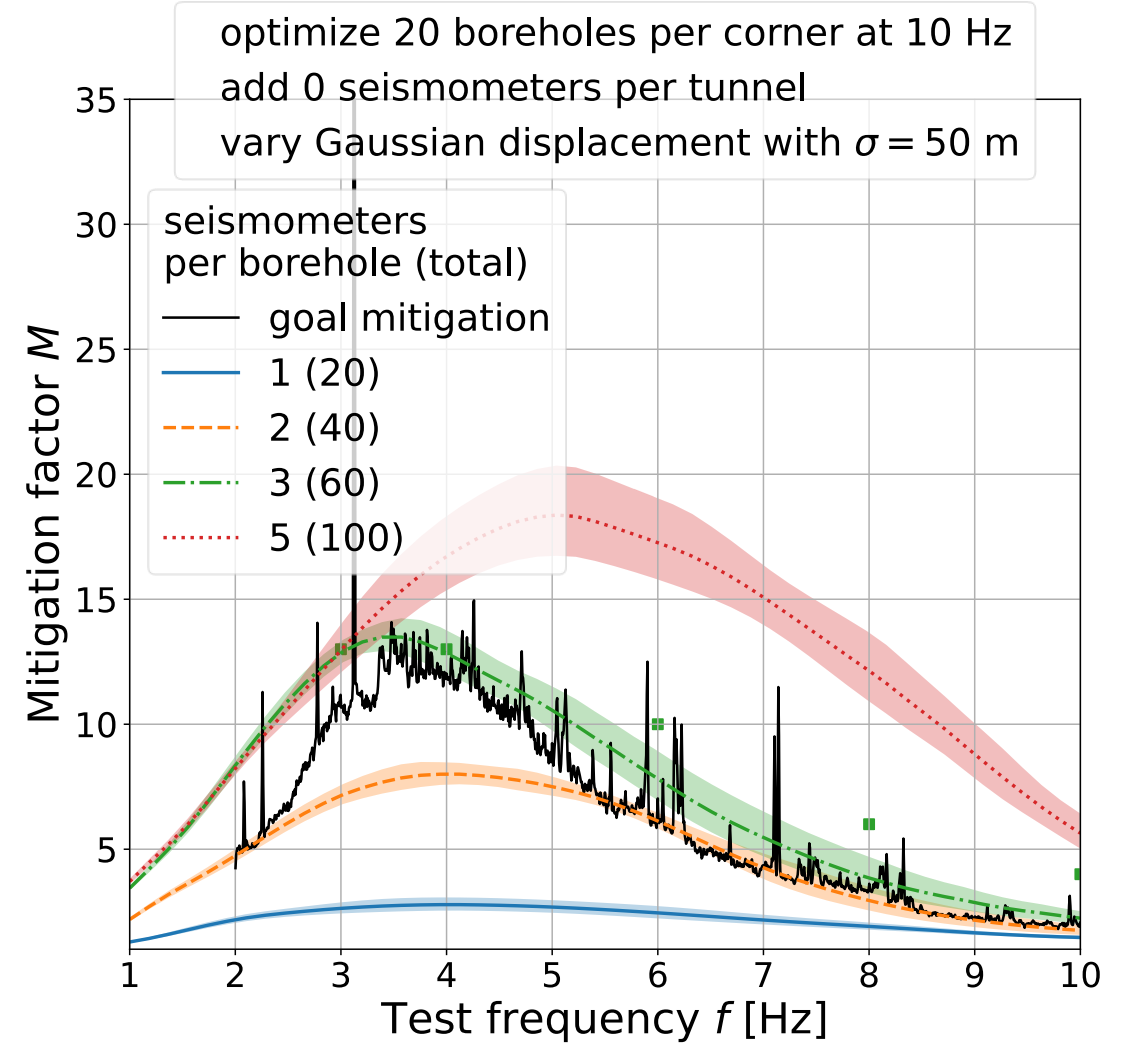
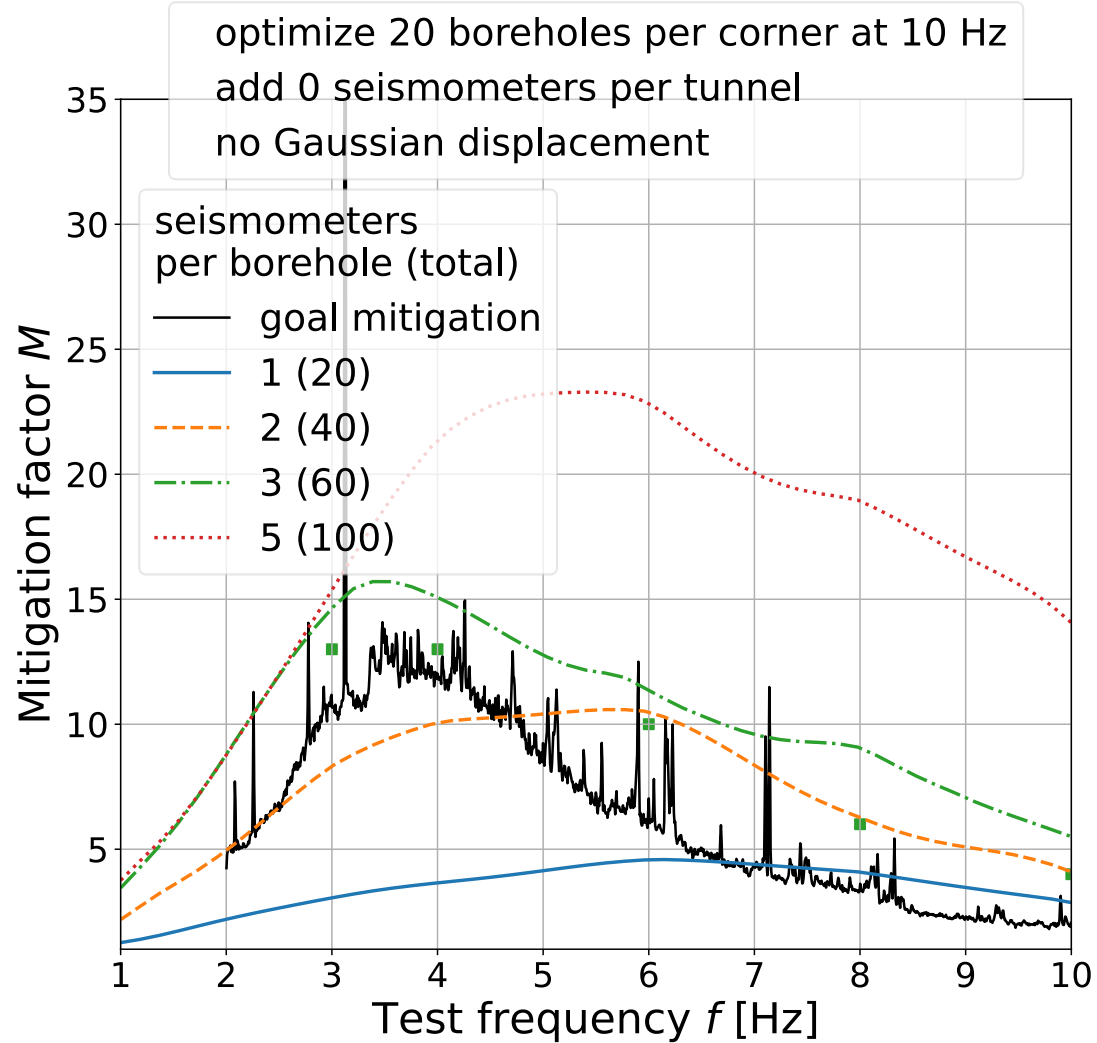
Optimization at 10 Hz



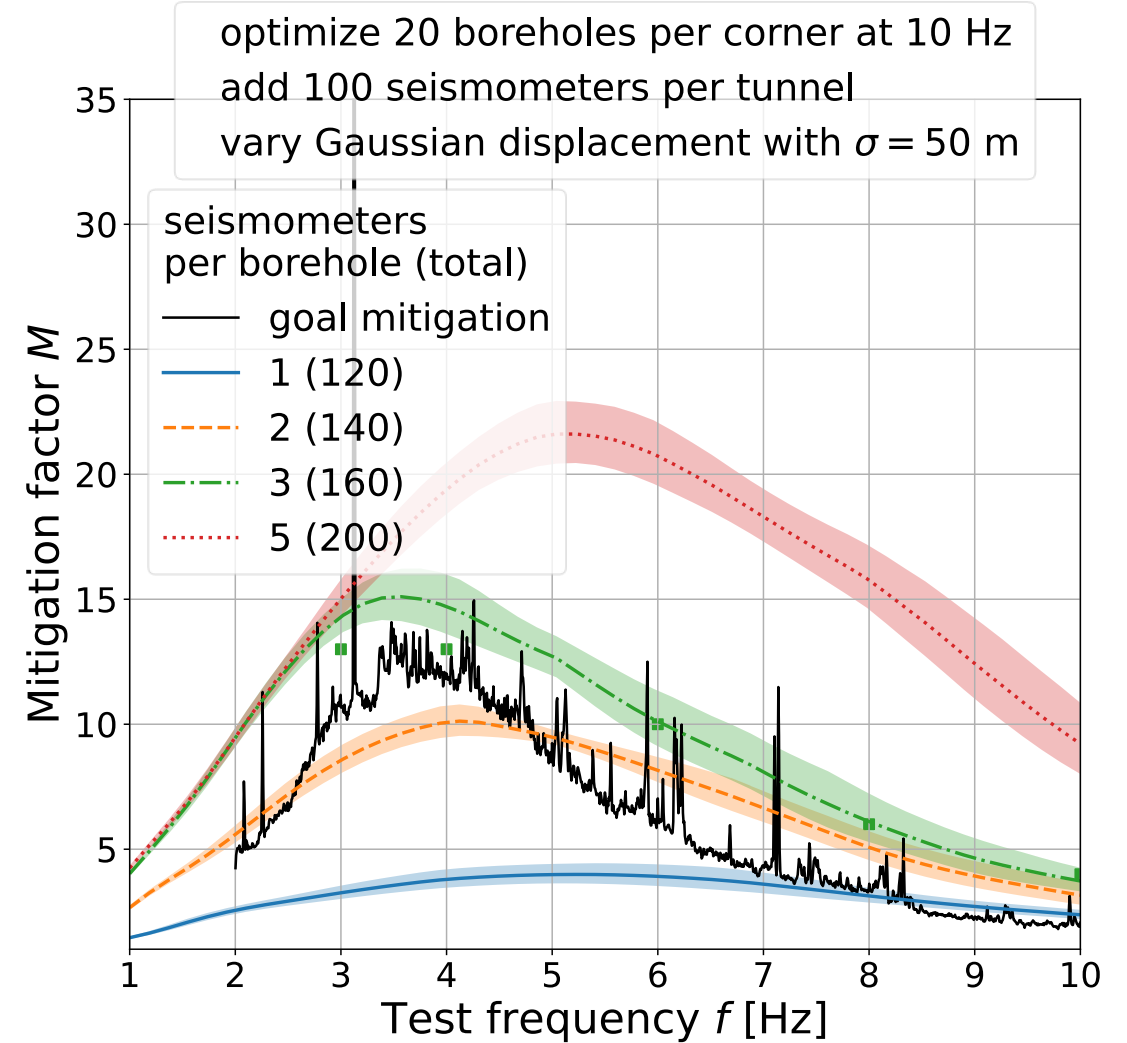
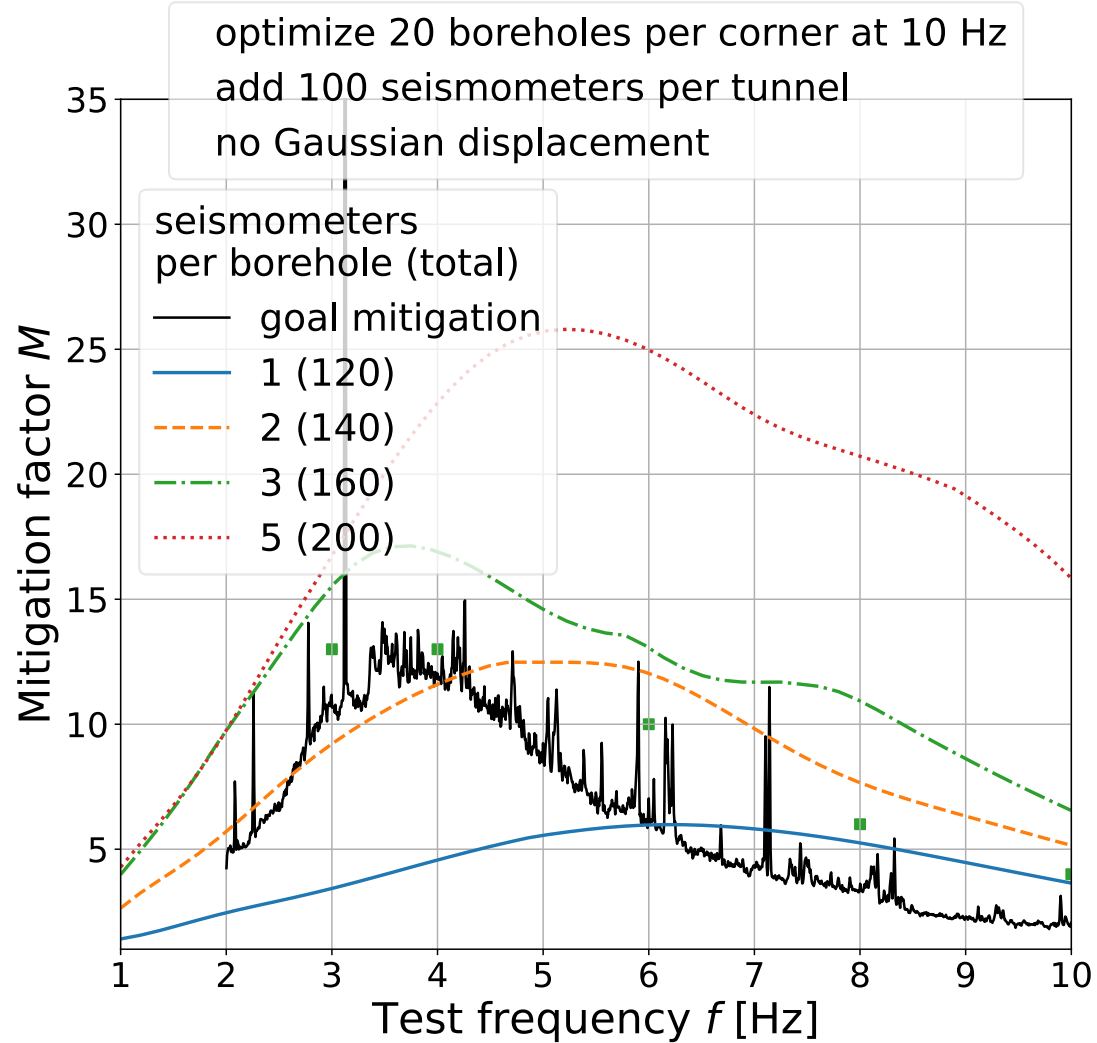
Optimization at 3 Hz



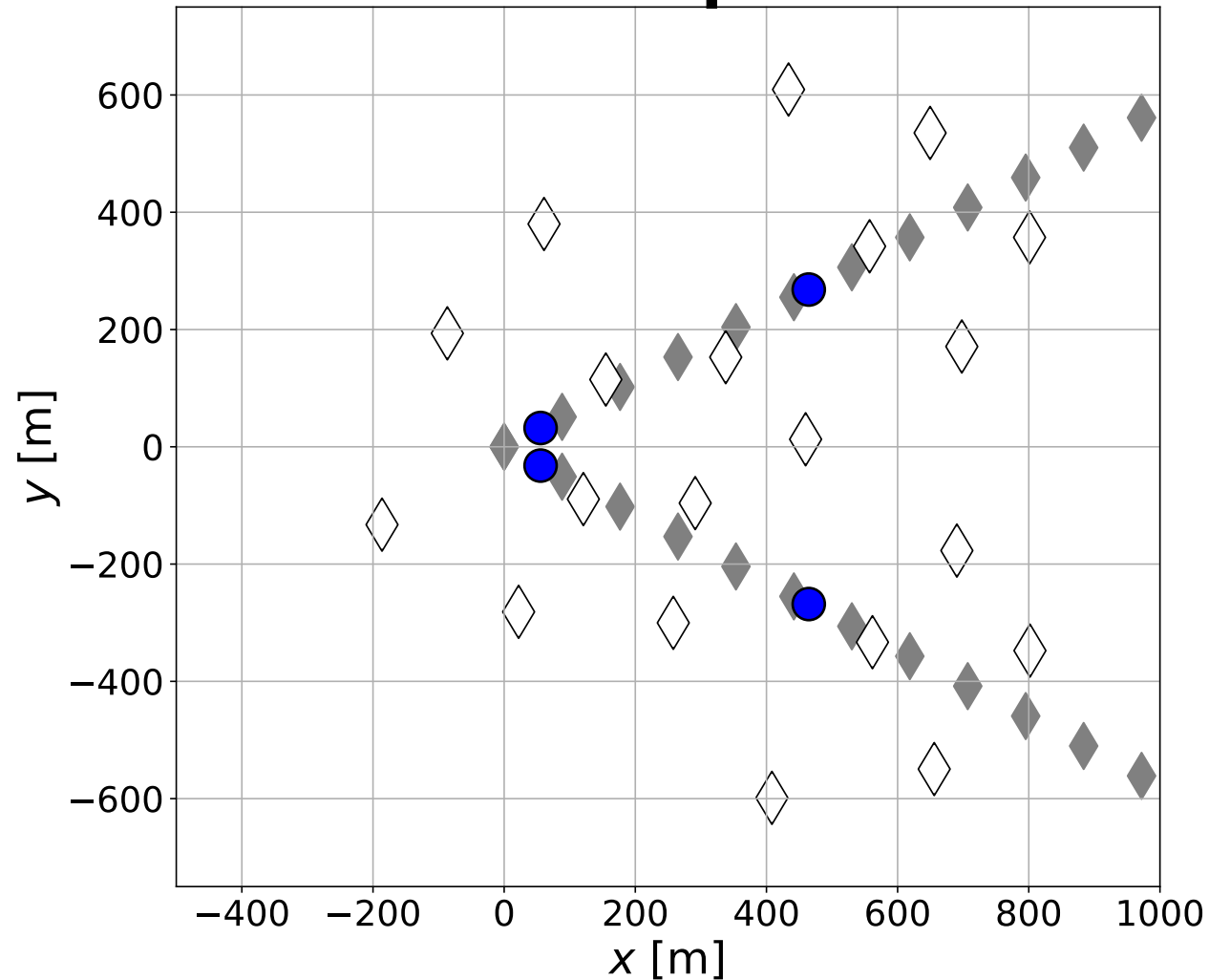
Broadband Optimization



Broadband Optimization



Borehole positions



- ◇ Borehole
- ◆ Tunnel
- Seismometer
- ET Mirror

z-axis not yet
constrained !

50 Boreholes

