



**Project Acronym:** SESAME

**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05

## APPENDIX 2

### Transfer function fits for 13 Lennartz 3D-5s seismometers - Calibration test at IGUP

This Appendix contains the complete overview of the transfer function fits obtained from the calibration test performed for all 13 Lennartz 3D-5s seismometers. Additionally we display the pole positions in the complex plane to show the scatter of fit results obtained independently for two hours of recording and both L1-norm and L2-norm fitting of the measured complex transfer function.

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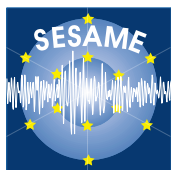
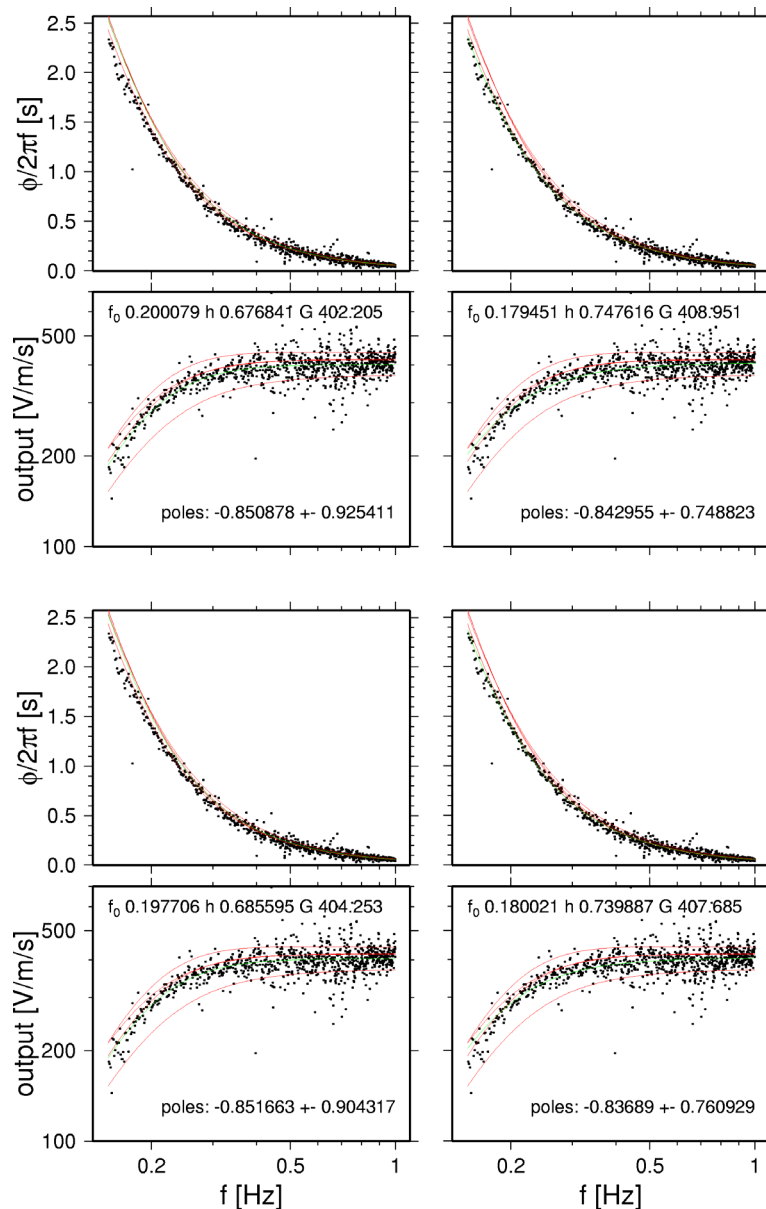
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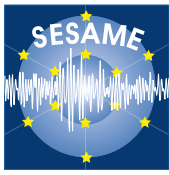
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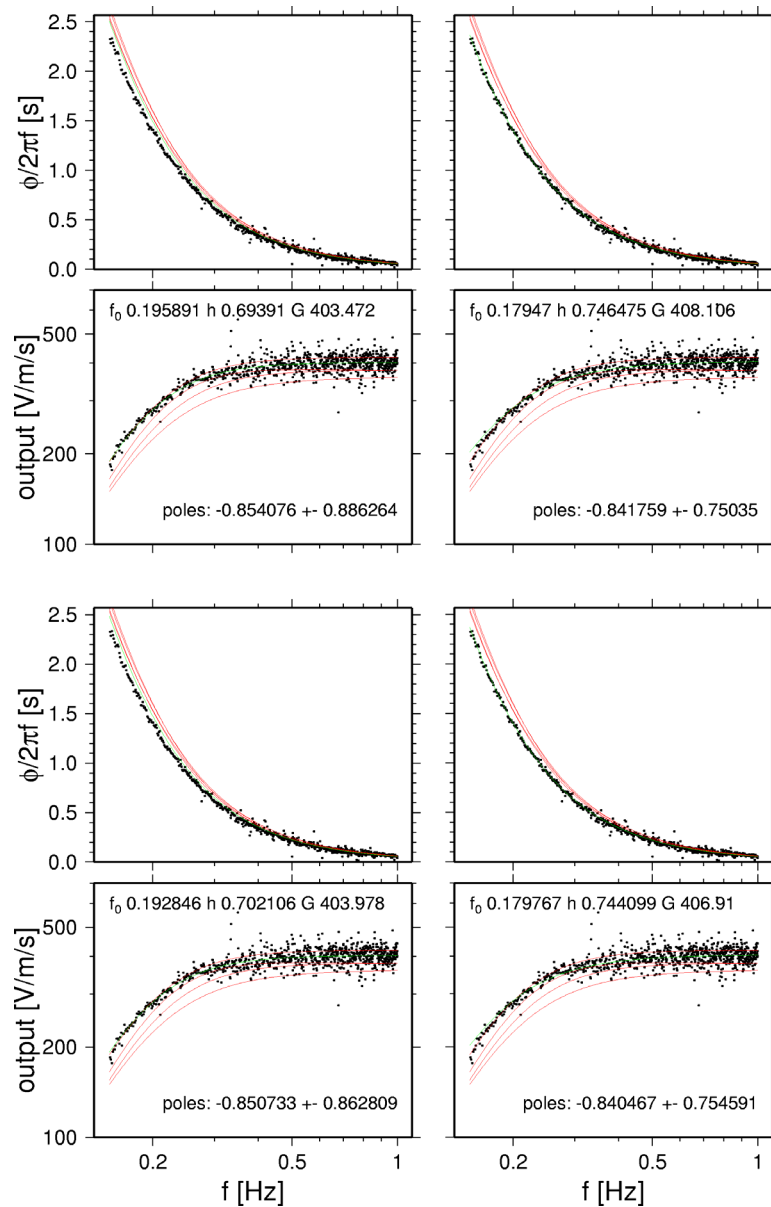
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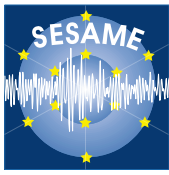
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**D07.05 - Appendix 2 - Figure 2 Transfer function fit for seismometer GP01, vertical component, hour 2.**



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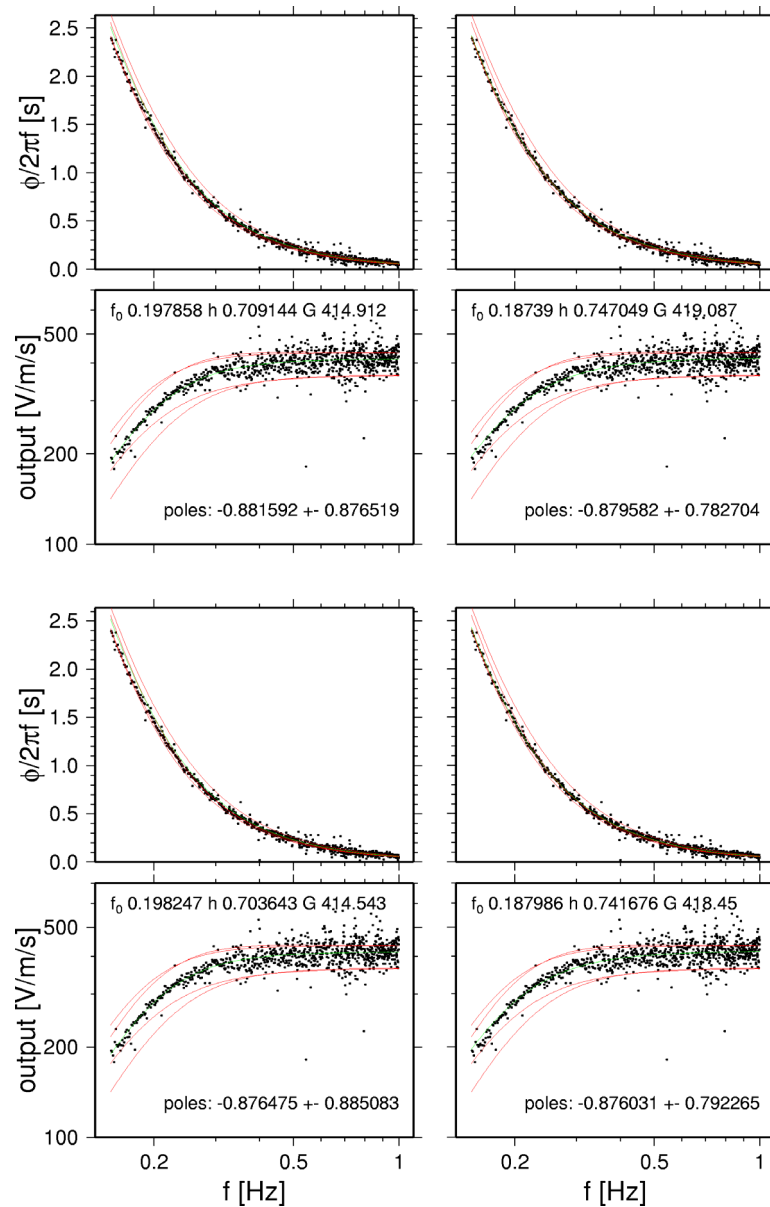
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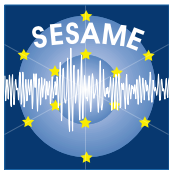
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**D07.05 - Appendix 2 - Figure 3 Transfer function fit for seismometer GP02, vertical component, hour 1.**



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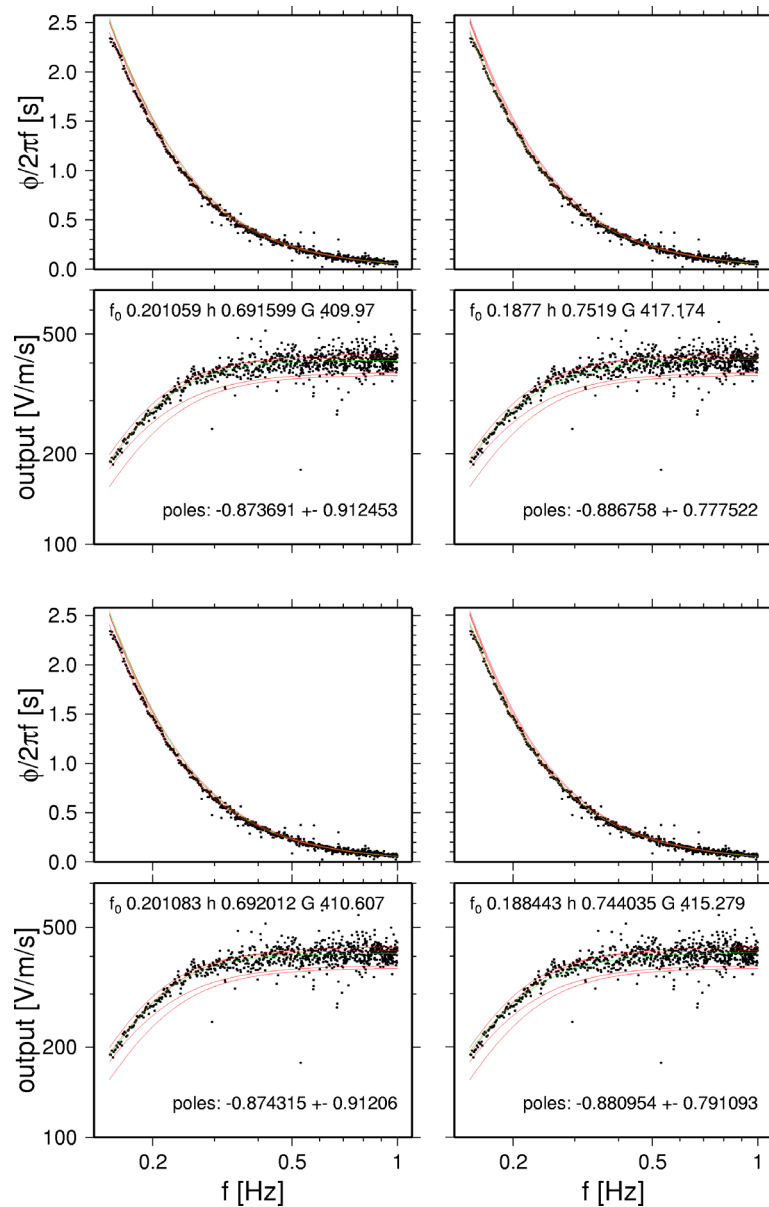
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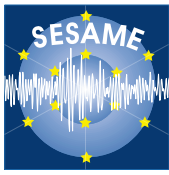
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**D07.05 - Appendix 2 - Figure 4 Transfer function fit for seismometer GP02, vertical component, hour 2.**



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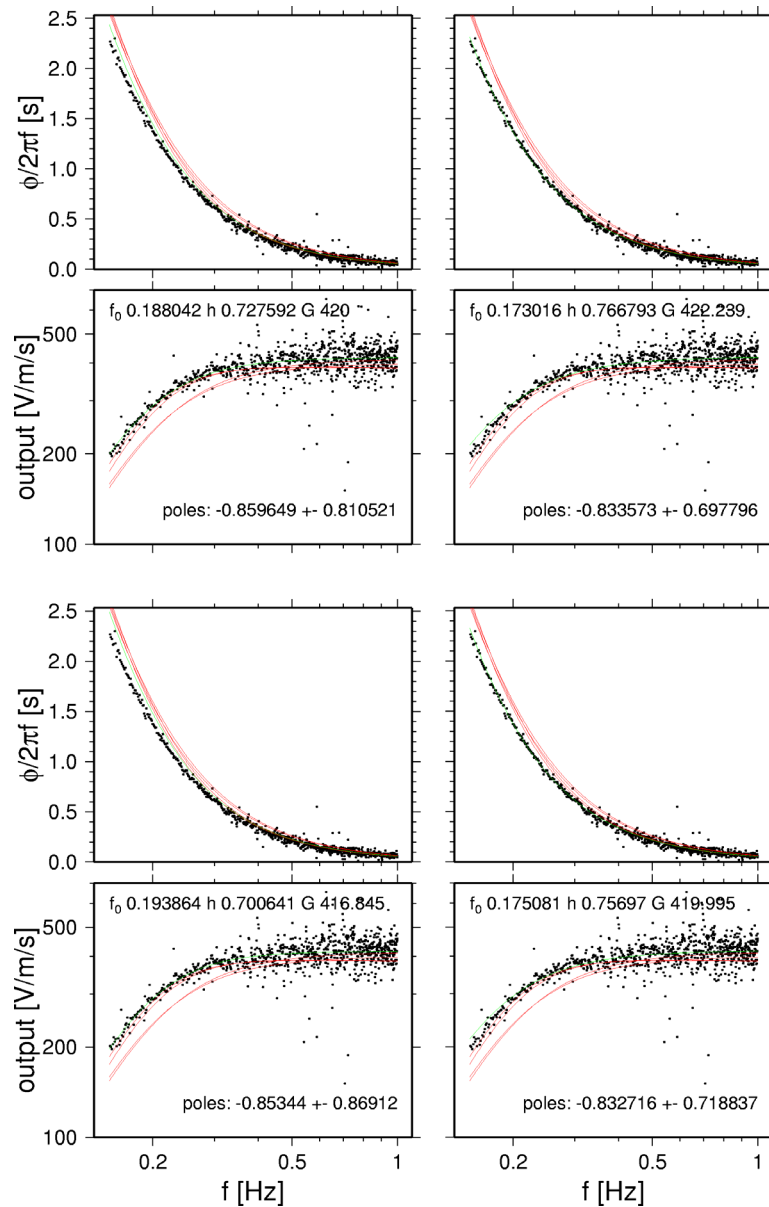
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**D07.05 - Appendix 2 - Figure 5 Transfer function fit for seismometer GP03, vertical component, hour 1.**



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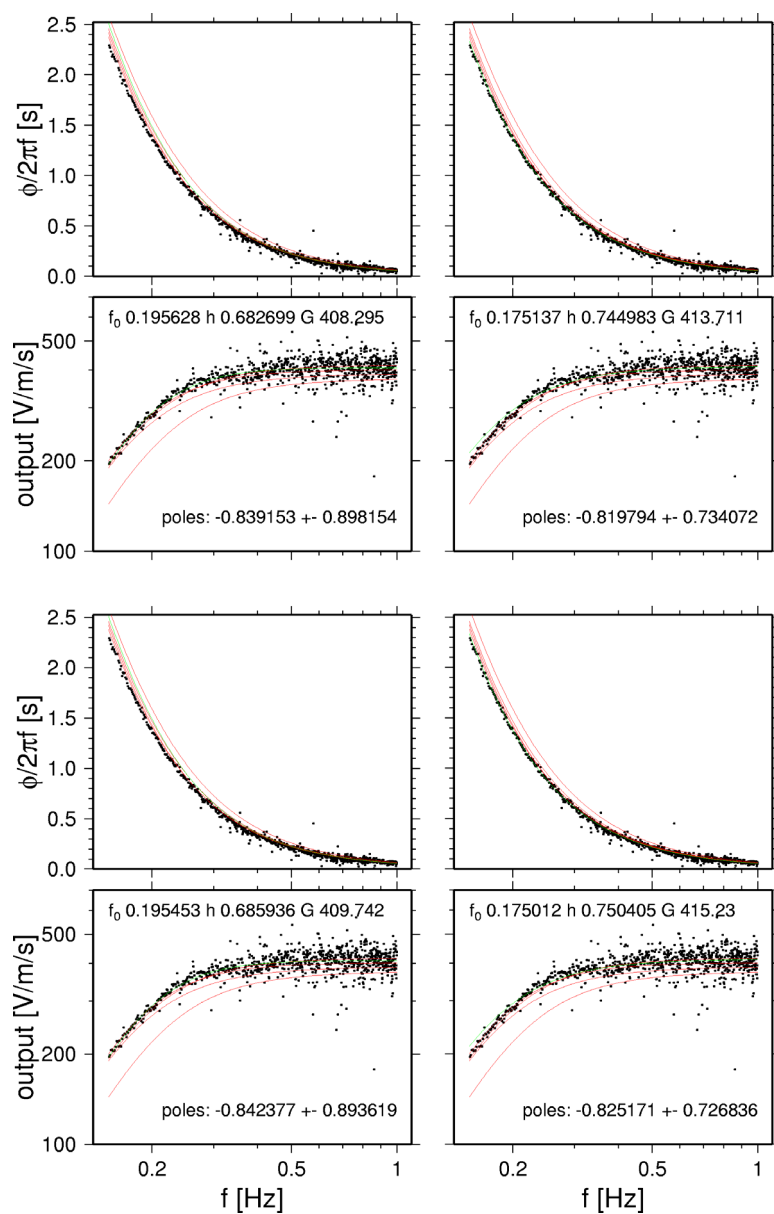
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**D07.05 - Appendix 2 - Figure 6 Transfer function fit for seismometer GP03, vertical component, hour 2.**



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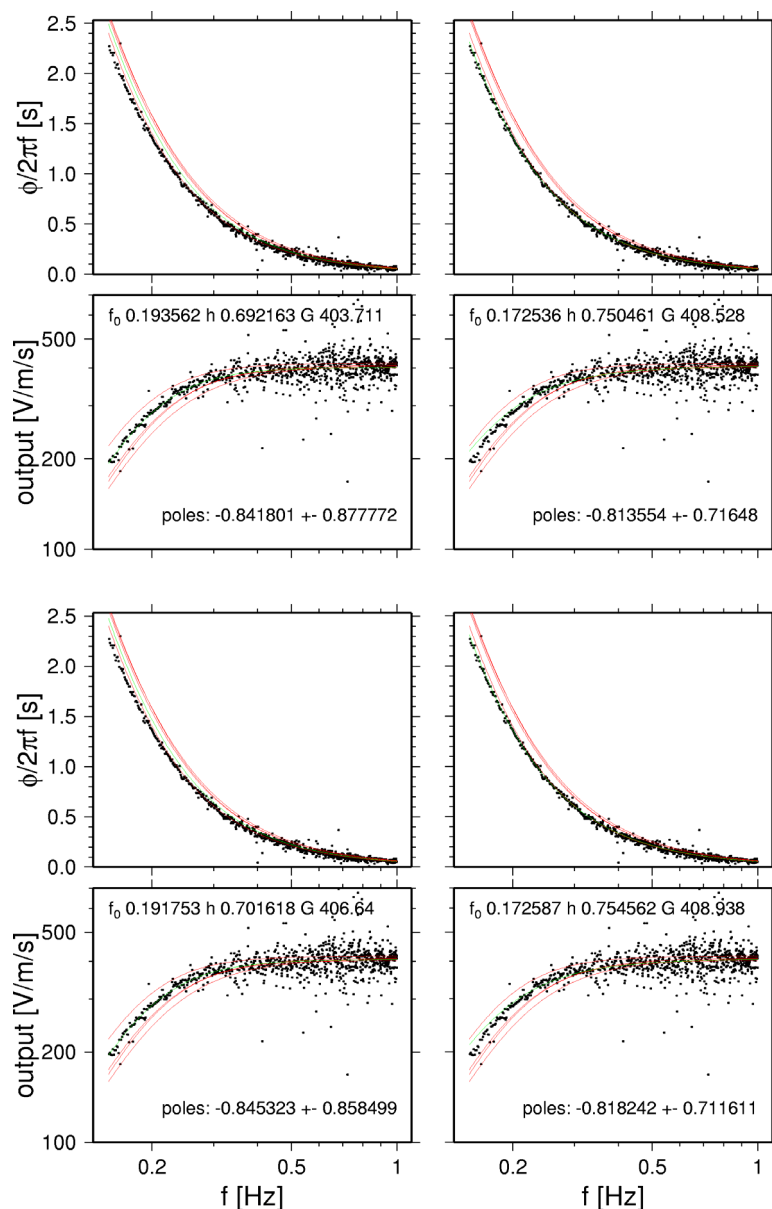
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**D07.05 - Appendix 2 - Figure 7 Transfer function fit for seismometer GP04, vertical component, hour 1.**





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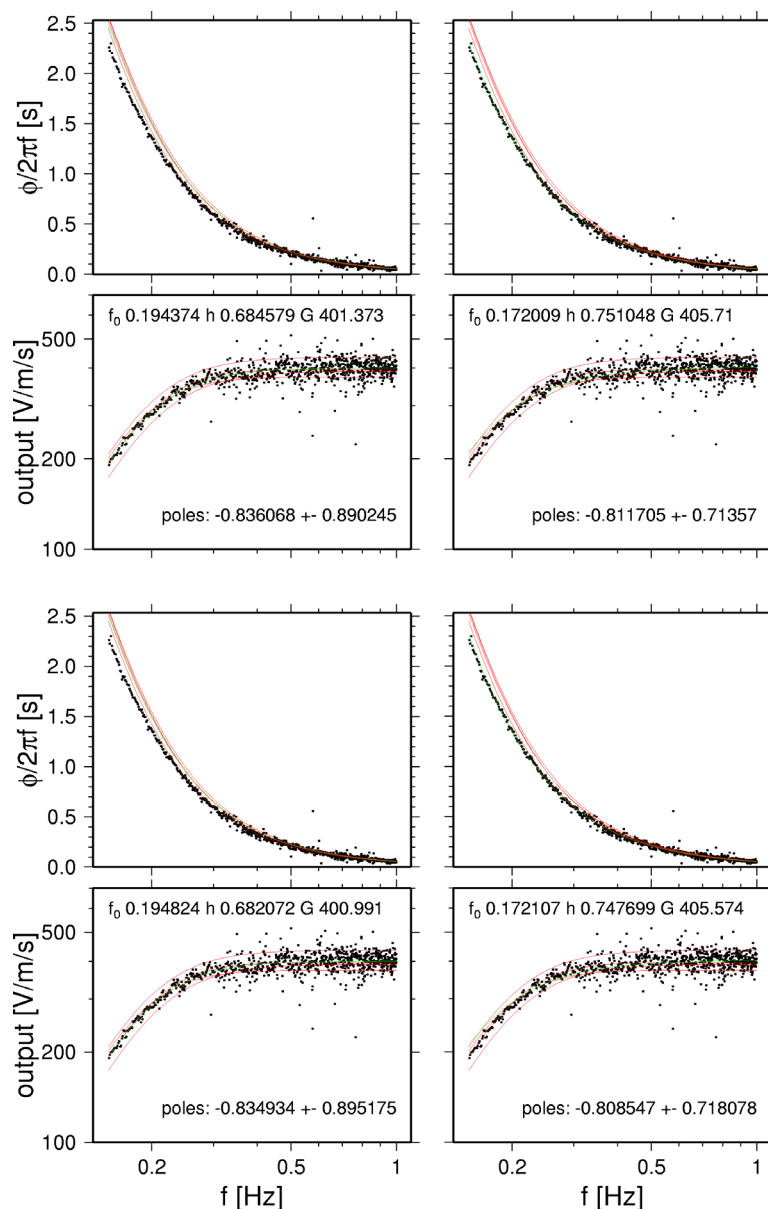
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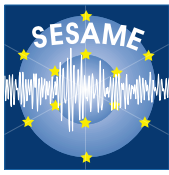
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**D07.05 - Appendix 2 - Figure 8 Transfer function fit for seismometer GP04, vertical component, hour 2.**



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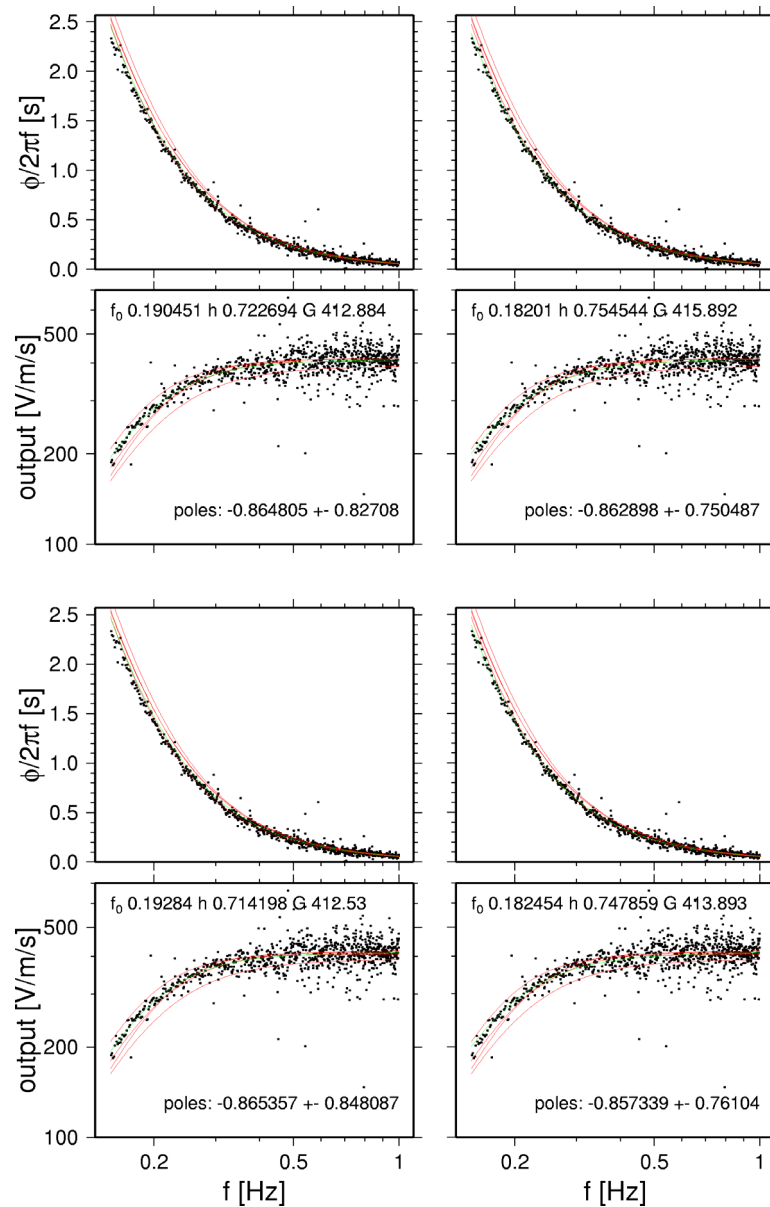
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**D07.05 - Appendix 2 - Figure 9 Transfer function fit for seismometer GP05, vertical component, hour 1.**



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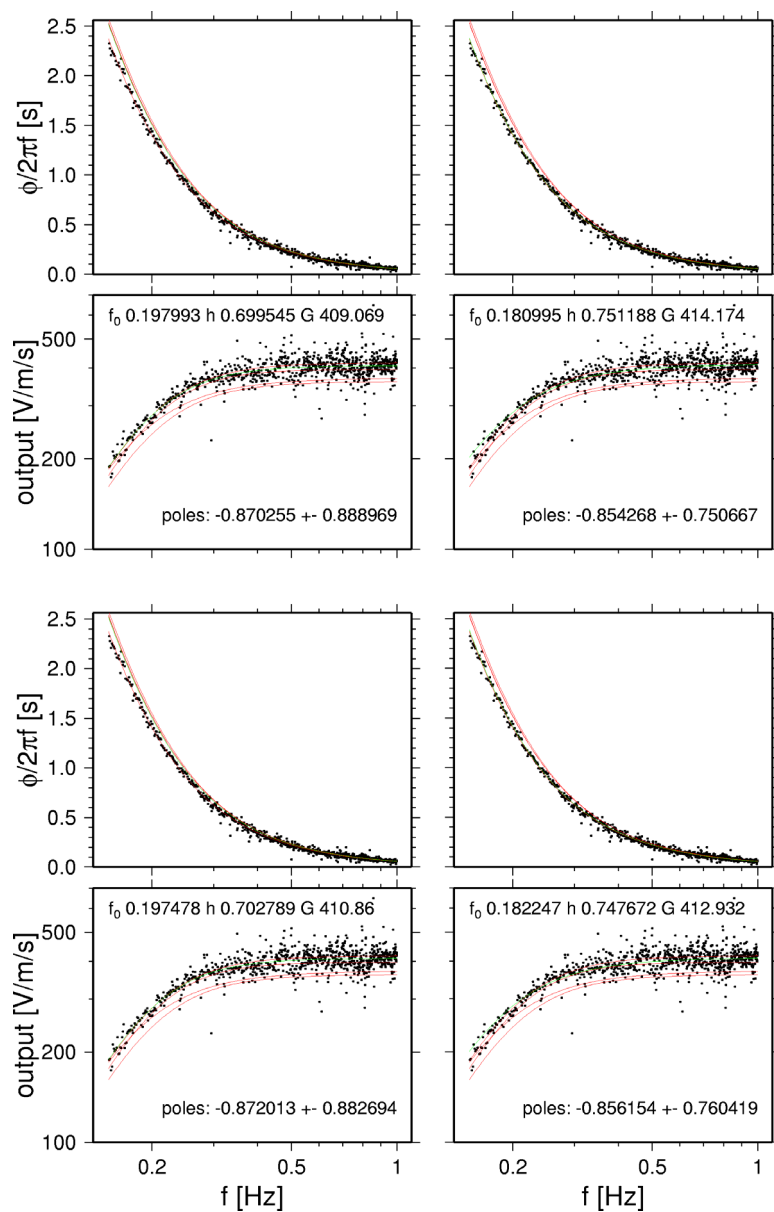
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**D07.05 - Appendix 2 - Figure 10 Transfer function fit for seismometer GP05, vertical component, hour 2.**



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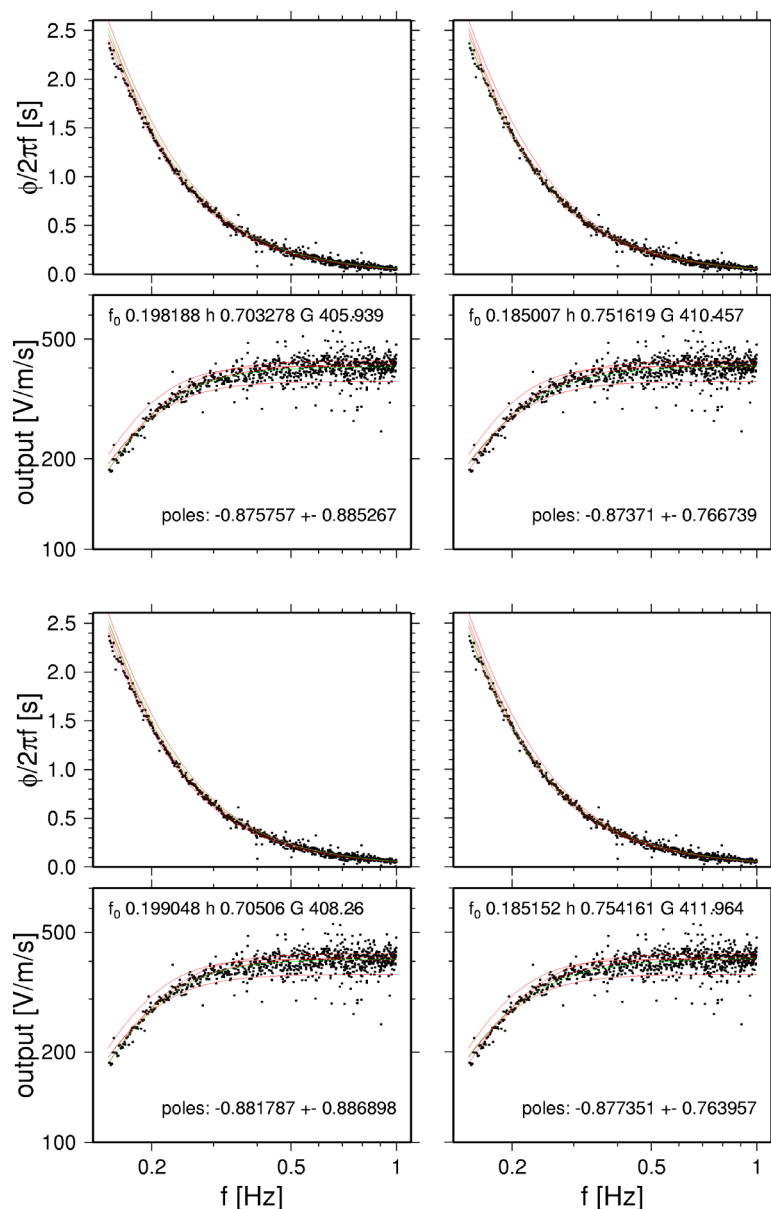
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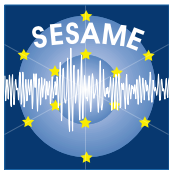
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**D07.05 - Appendix 2 - Figure 11 Transfer function fit for seismometer GP06, vertical component, hour 1.**



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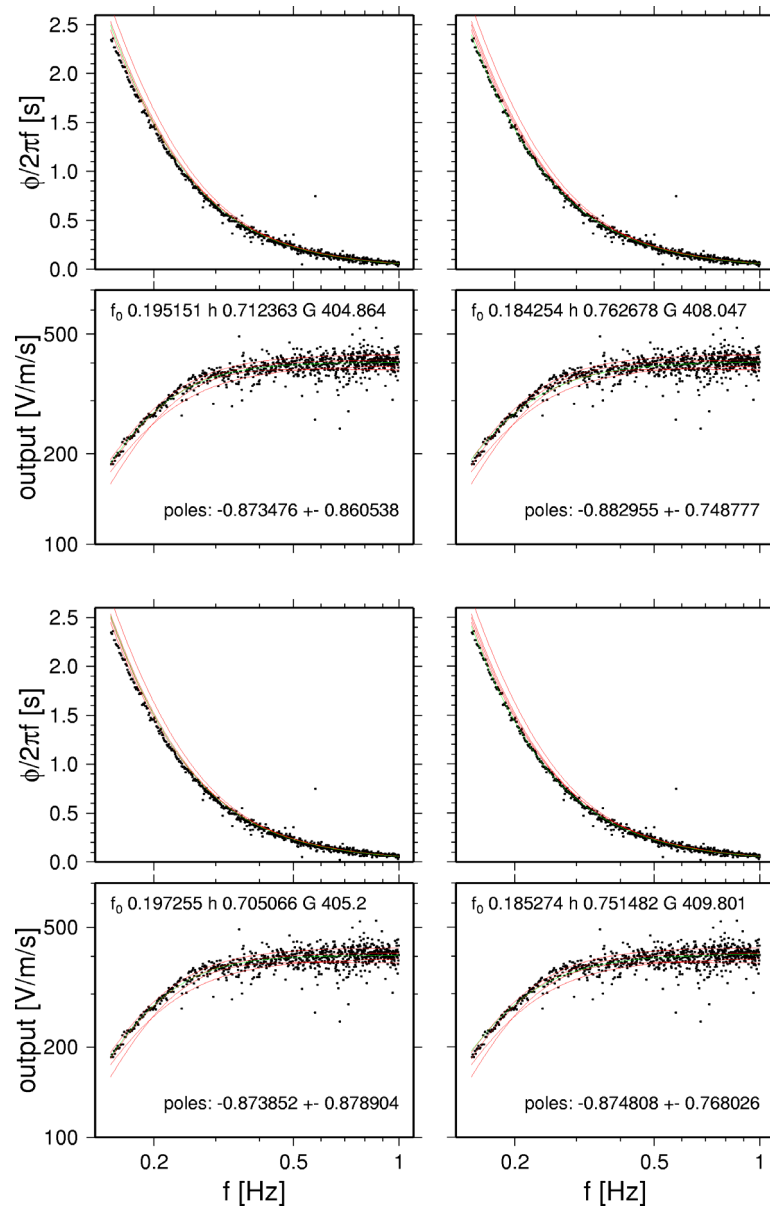
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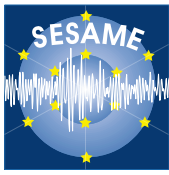
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**D07.05 - Appendix 2 - Figure 12 Transfer function fit for seismometer GP06, vertical component, hour 2.**



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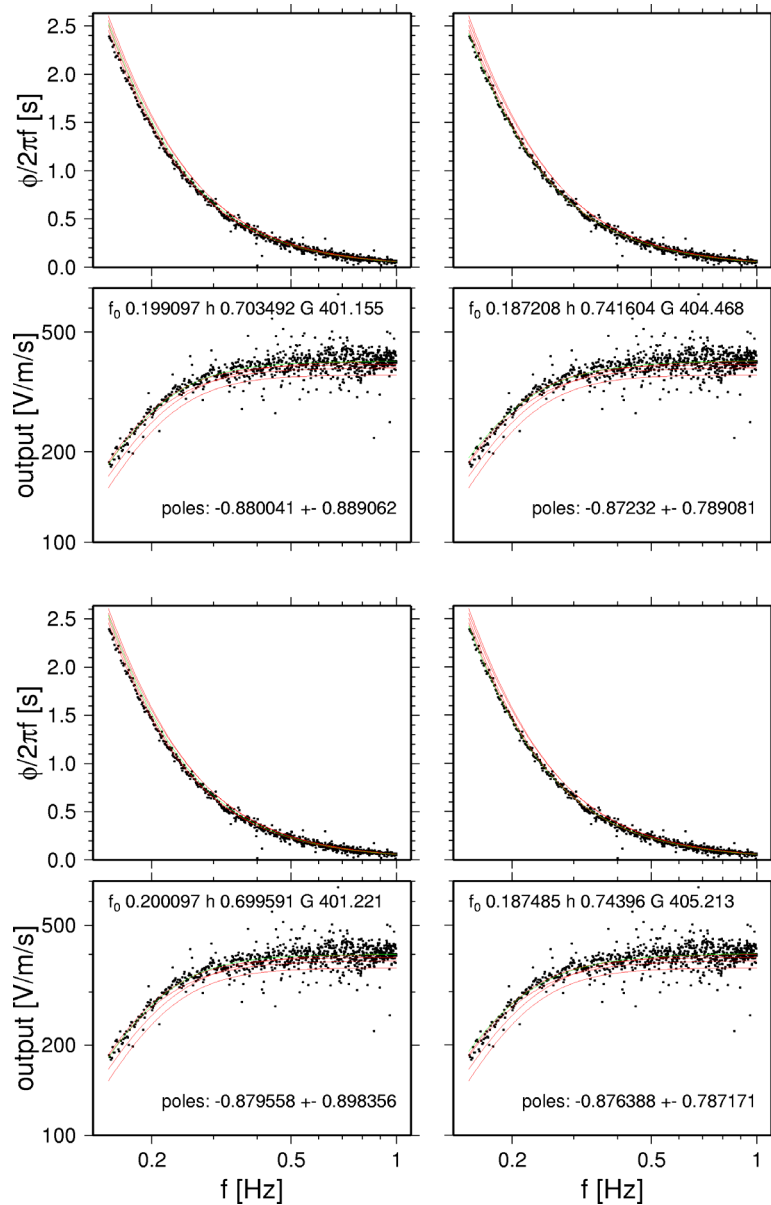
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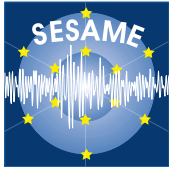
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**D07.05 - Appendix 2 - Figure 13 Transfer function fit for seismometer GP07, vertical component, hour 1.**



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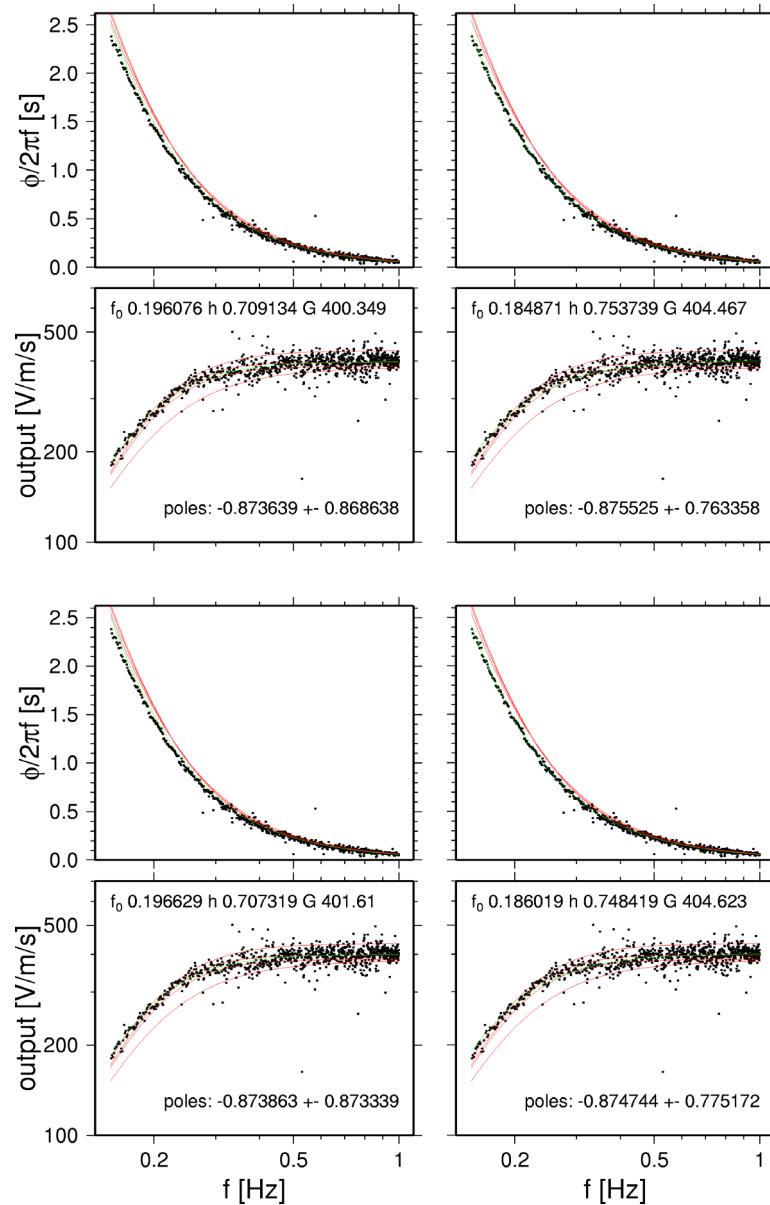
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**D07.05 - Appendix 2 - Figure 14 Transfer function fit for seismometer GP07, vertical component, hour 2.**



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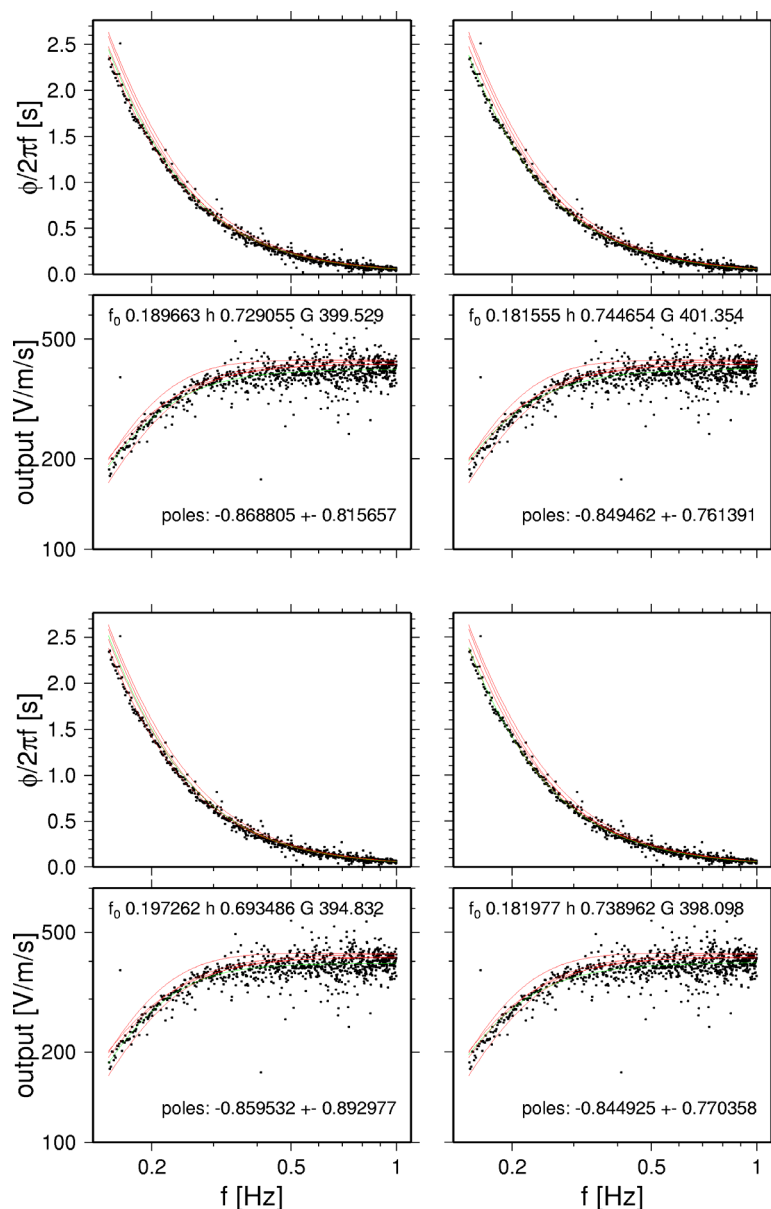
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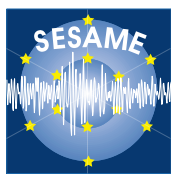
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**D07.05 - Appendix 2 - Figure 15 Transfer function fit for seismometer GP08, vertical component, hour 1.**





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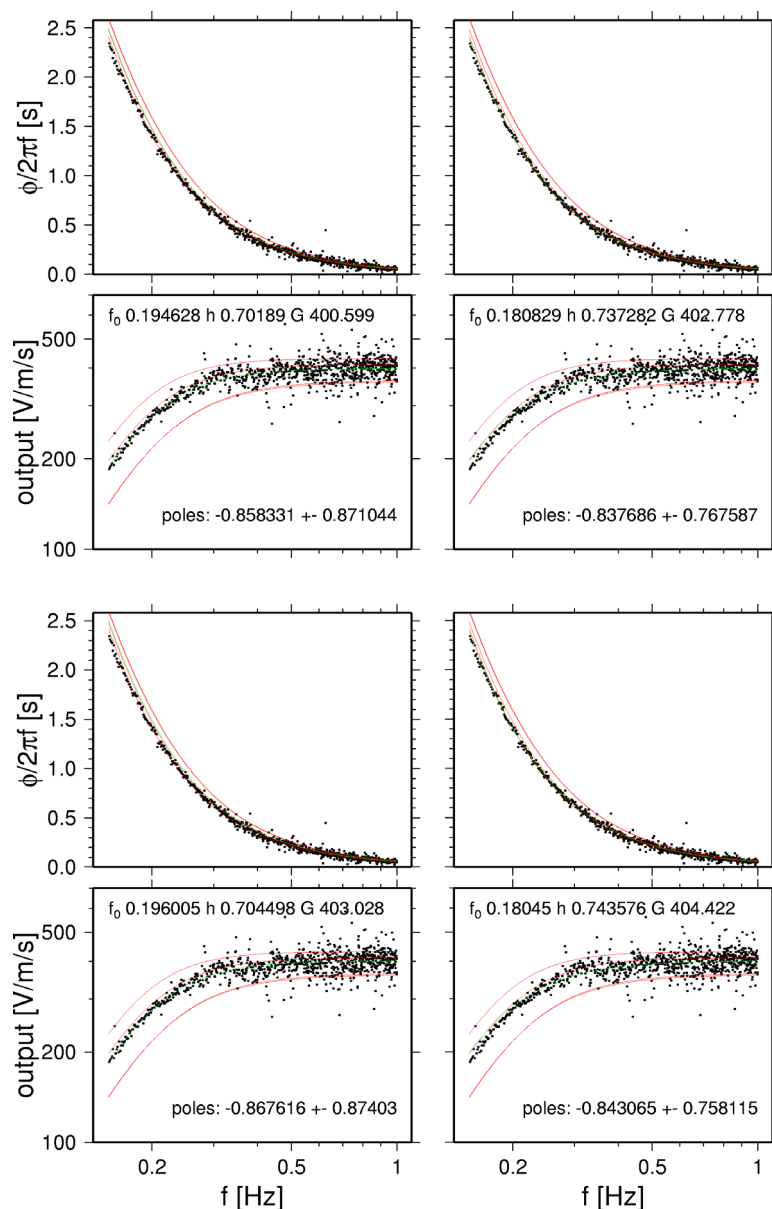
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**D07.05 - Appendix 2 - Figure 16 Transfer function fit for seismometer GP08, vertical component, hour 2.**



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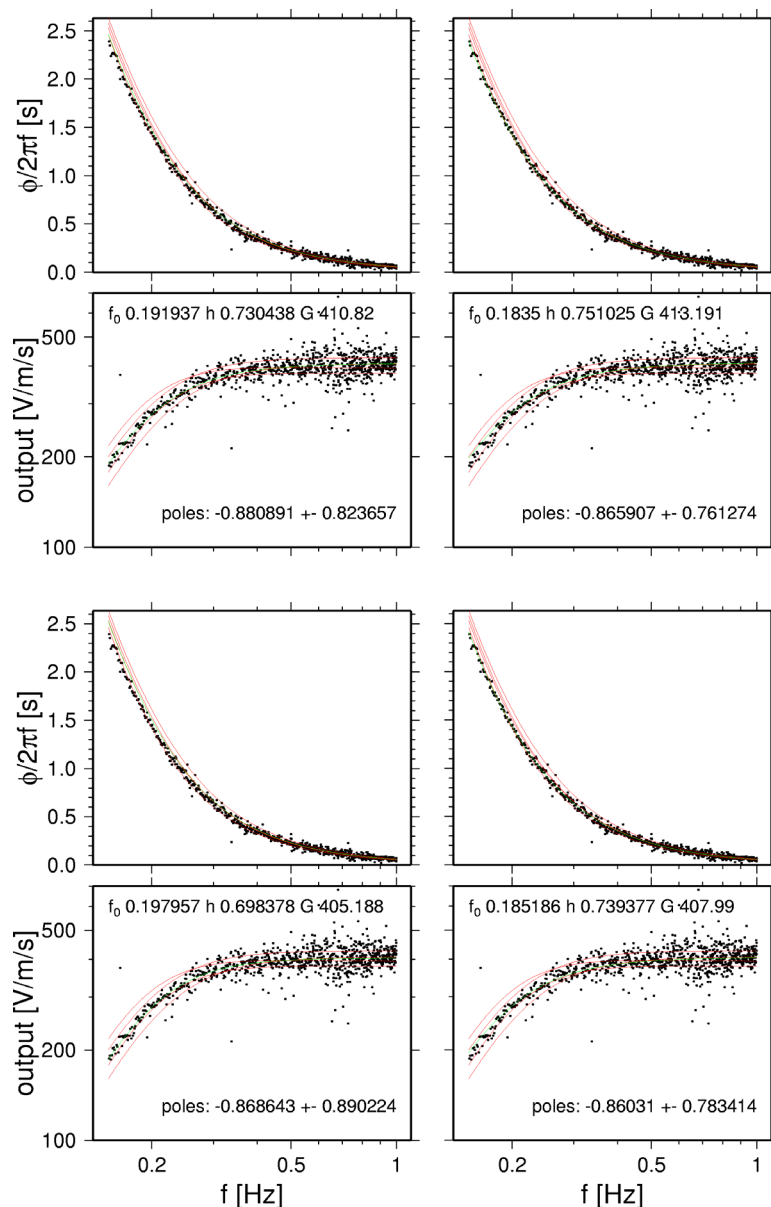
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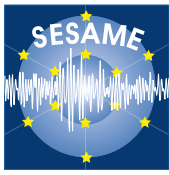
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**D07.05 - Appendix 2 - Figure 17 Transfer function fit for seismometer GP09, vertical component, hour 1.**



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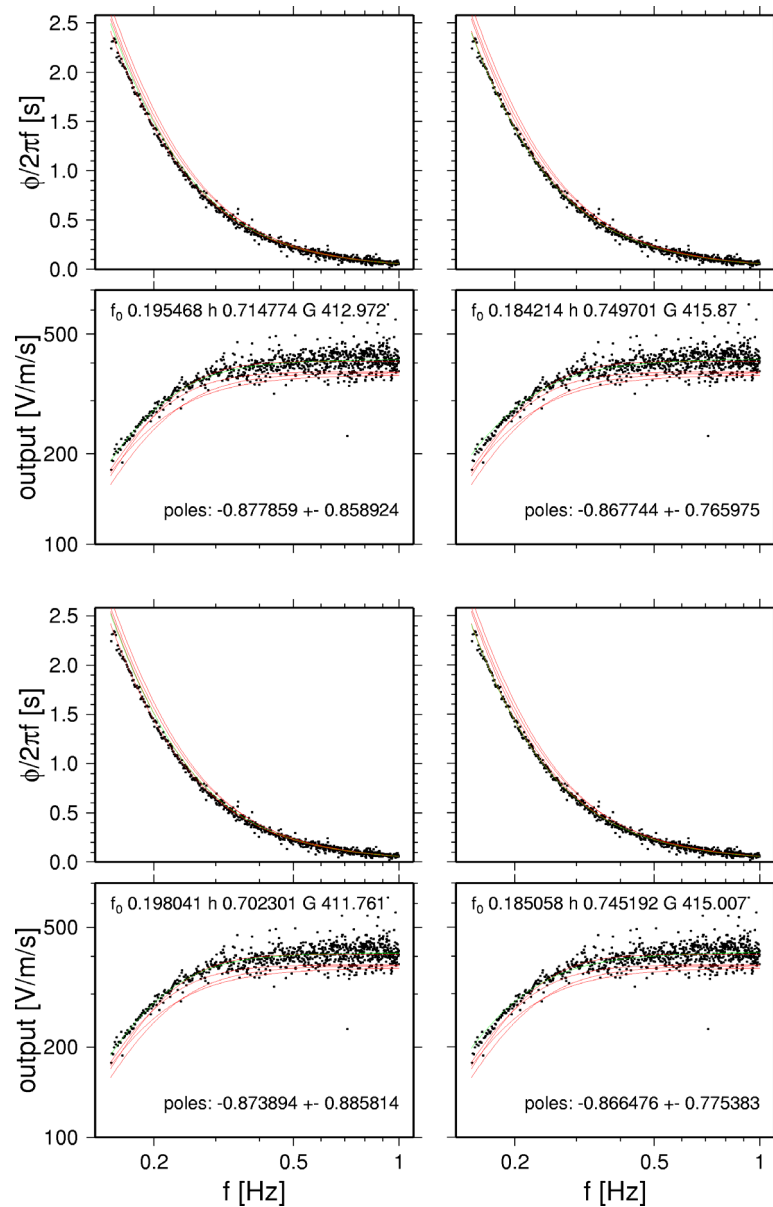
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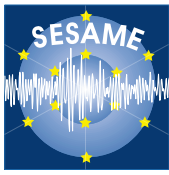
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**D07.05 - Appendix 2 - Figure 18 Transfer function fit for seismometer GP09, vertical component, hour 2.**



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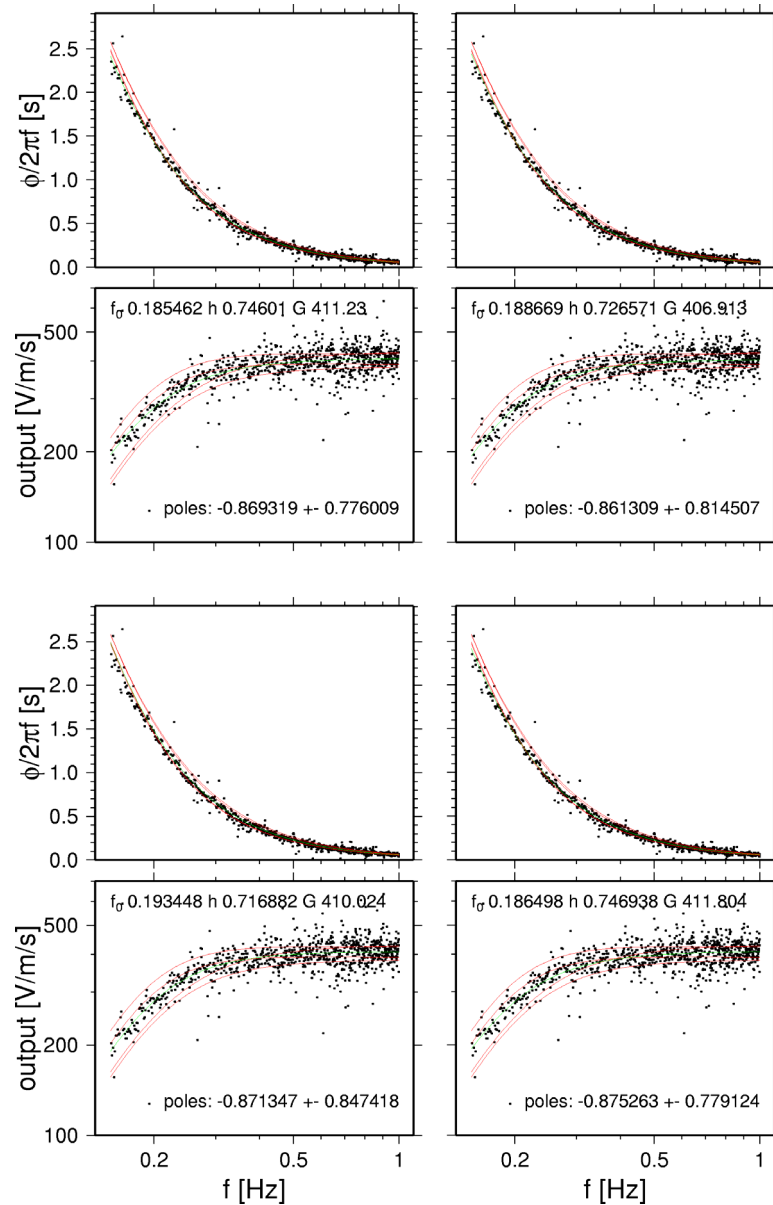
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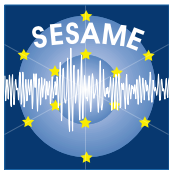
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**D07.05 - Appendix 2 - Figure 19 Transfer function fit for seismometer GP10, vertical component, hour 1.**



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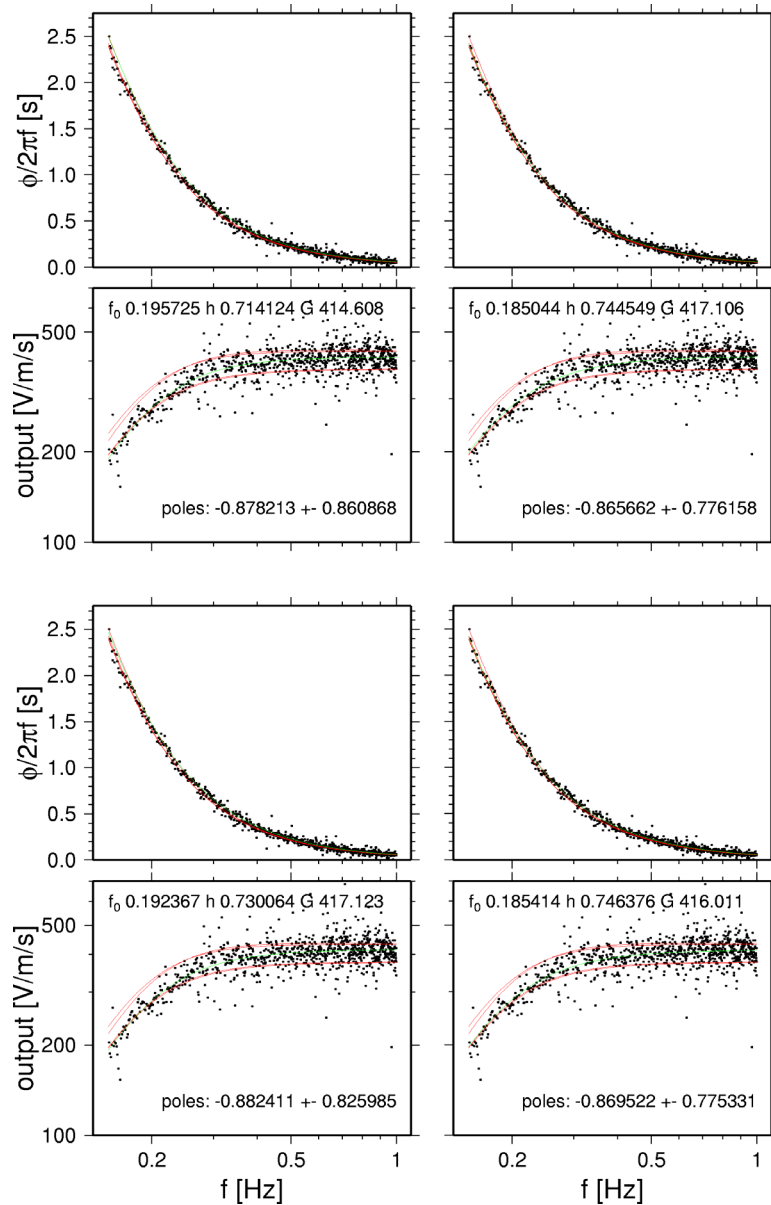
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 20 Transfer function fit for seismometer GP10, vertical component, hour 2.**



**Project Acronym: SESAME**

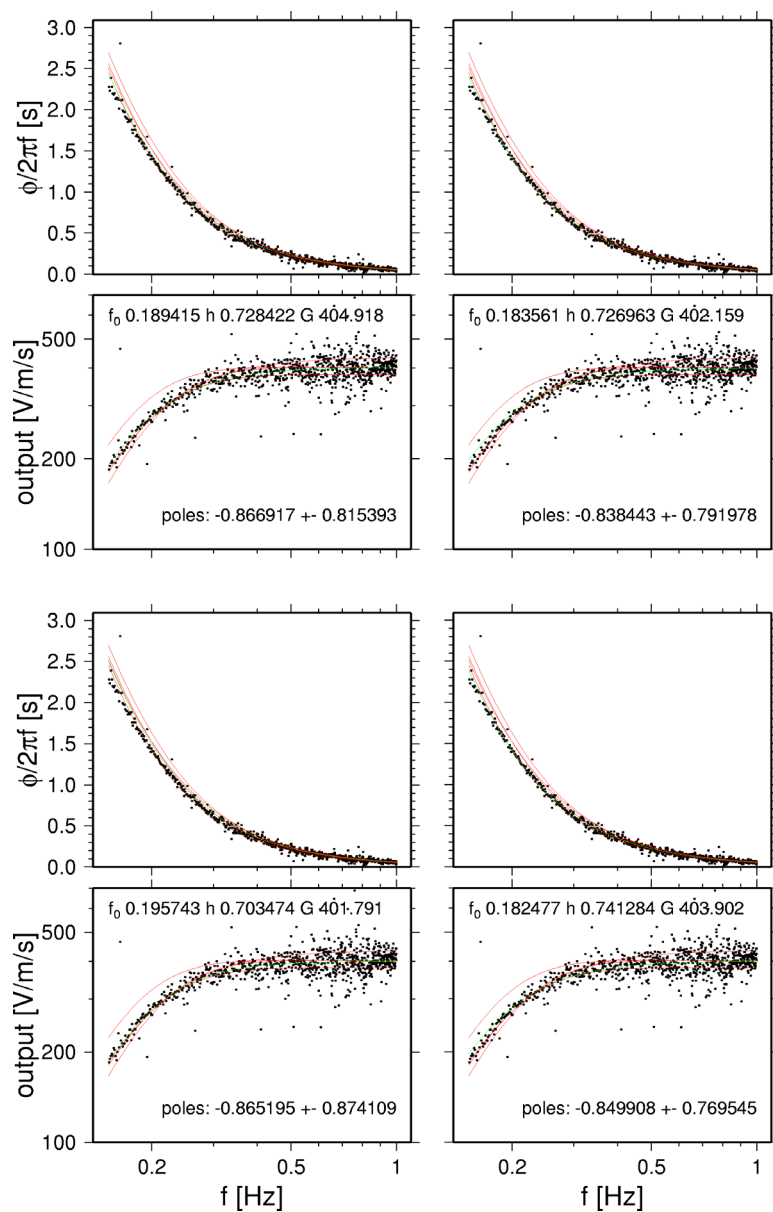
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 21 Transfer function fit for seismometer GP11, vertical component, hour 1.**



**Project Acronym: SESAME**

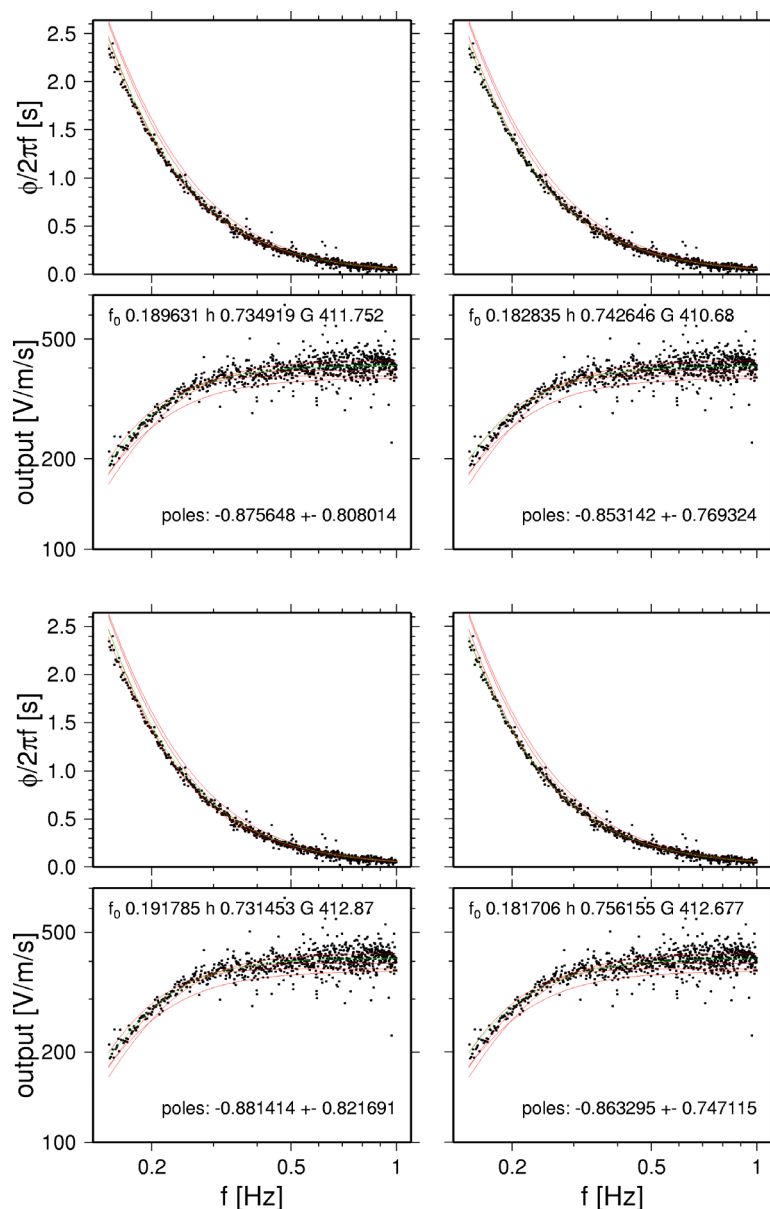
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

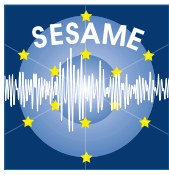
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 22 Transfer function fit for seismometer GP11, vertical component, hour 2.**



**Project Acronym: SESAME**

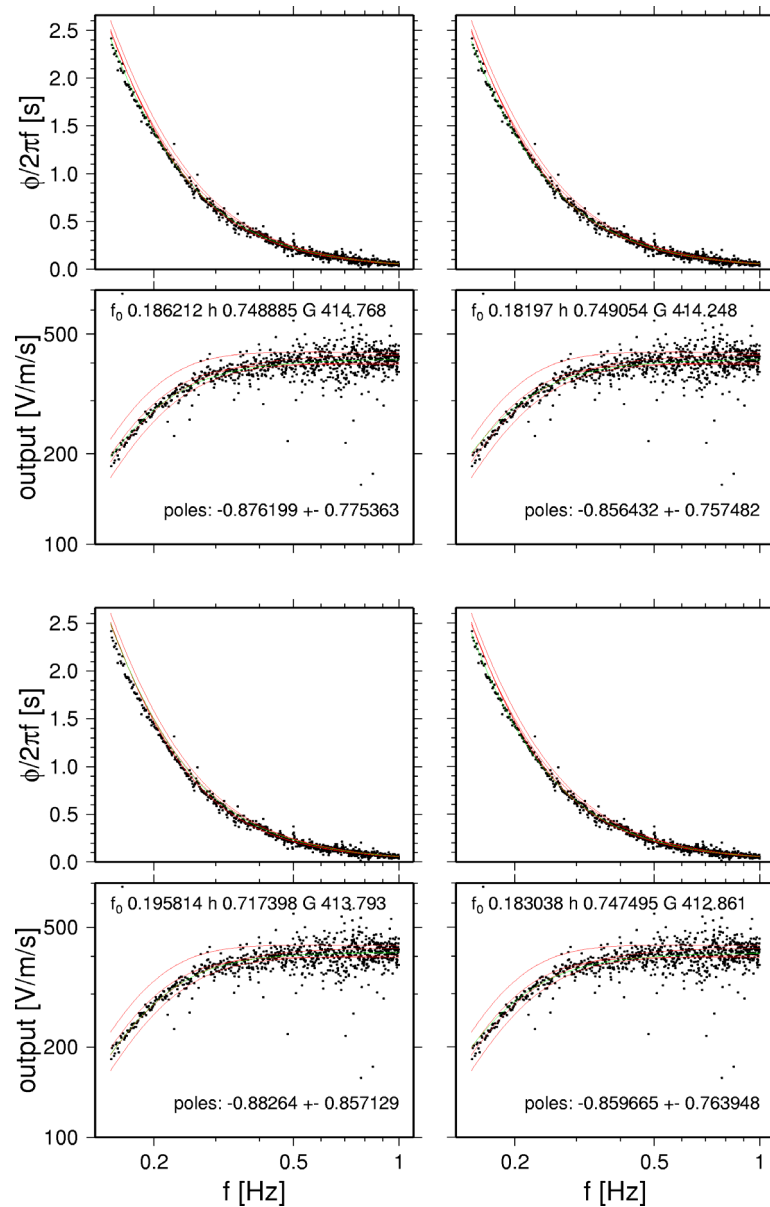
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

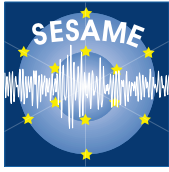
**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 23 Transfer function fit for seismometer GP12, vertical component, hour 1.**





**Project Acronym: SESAME**

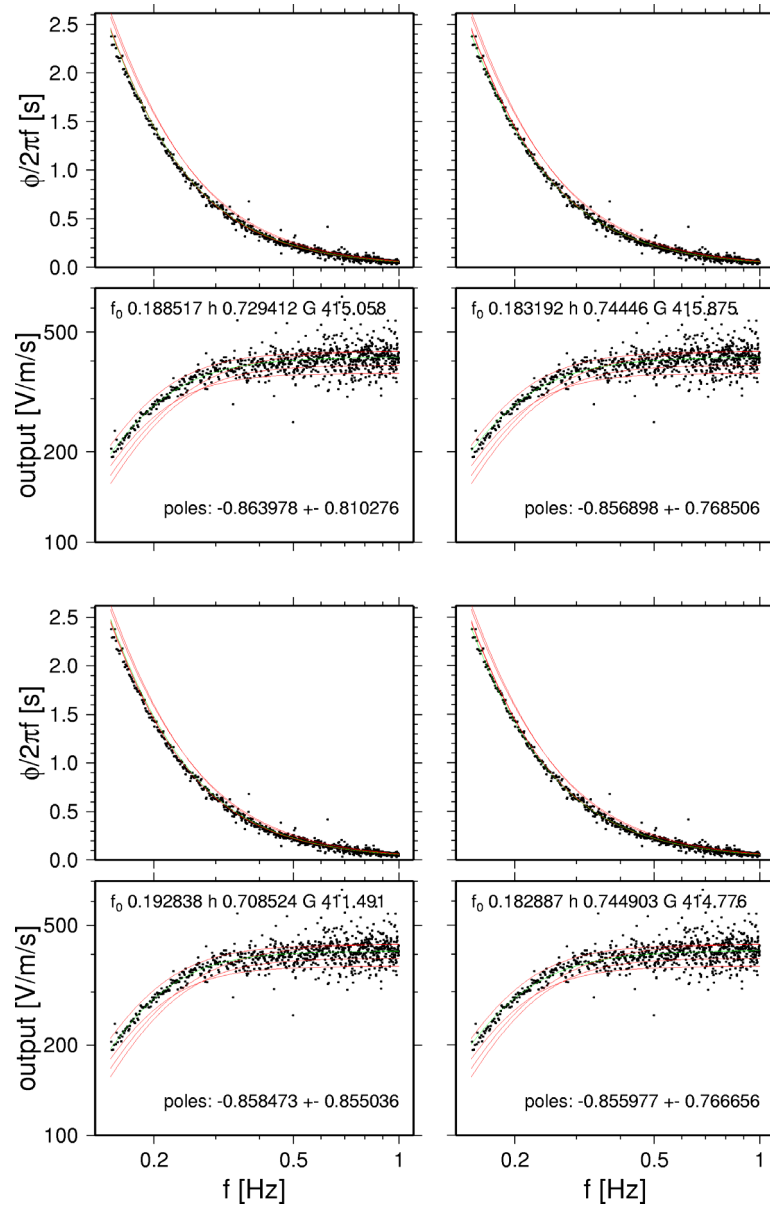
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

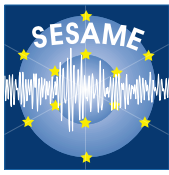
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 24 Transfer function fit for seismometer GP12, vertical component, hour 2.**



**Project Acronym: SESAME**

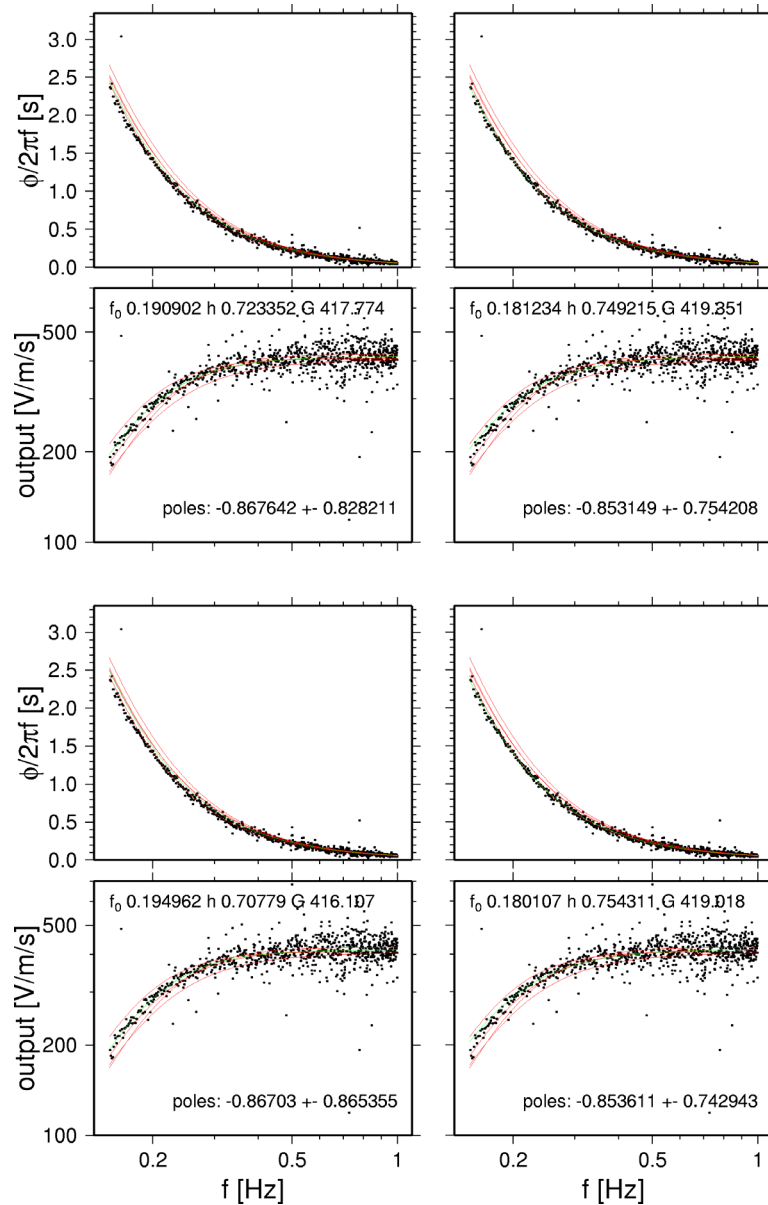
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

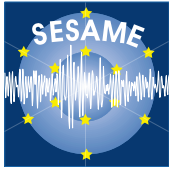
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 25 Transfer function fit for seismometer GP13, vertical component, hour 1.**



**Project Acronym: SESAME**

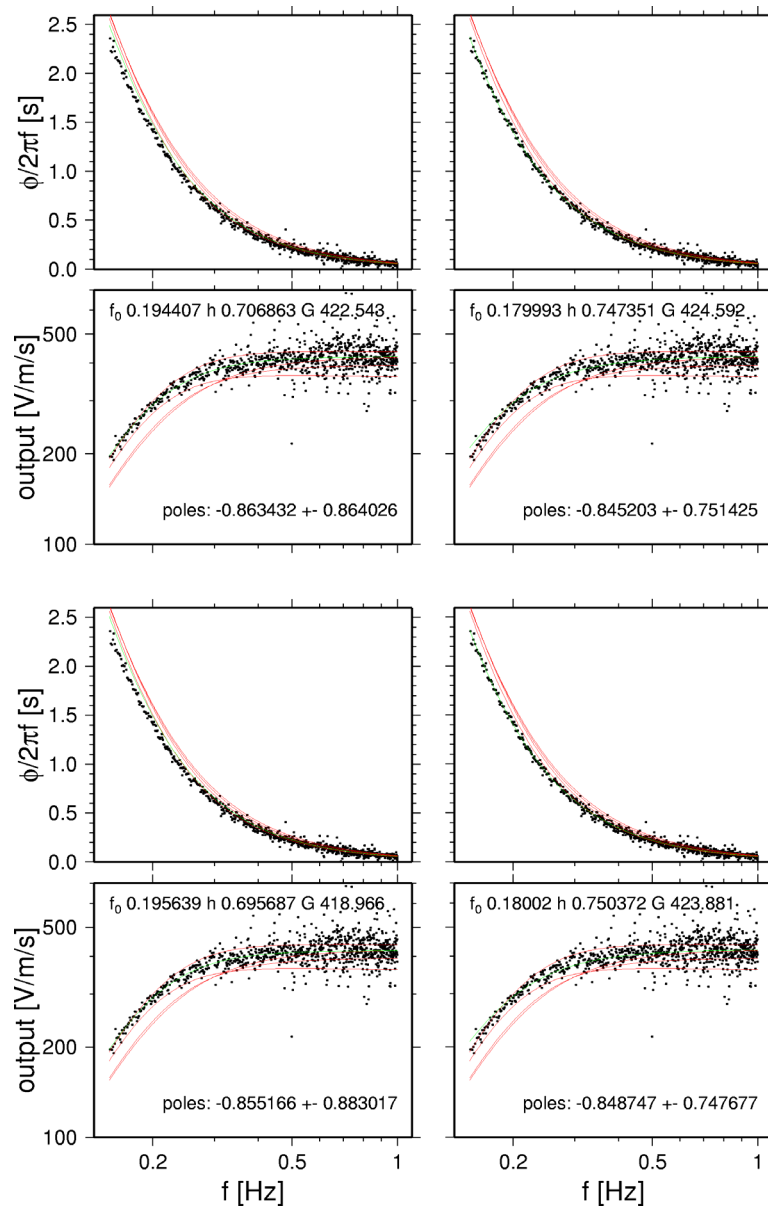
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

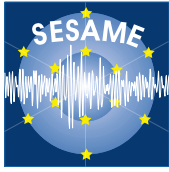
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 26 Transfer function fit for seismometer GP13, vertical component, hour 2.**



**Project Acronym: SESAME**

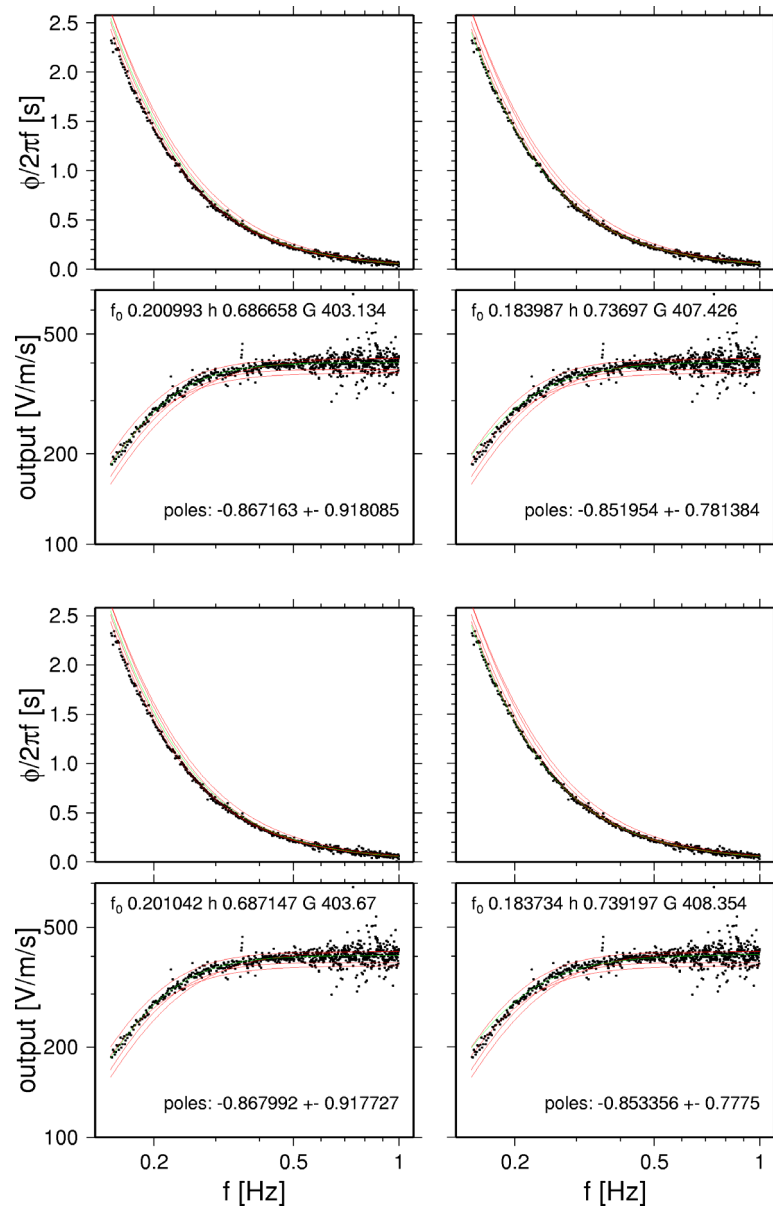
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 27 Transfer function fit for seismometer GP01, north component, hour 1.**



**Project Acronym: SESAME**

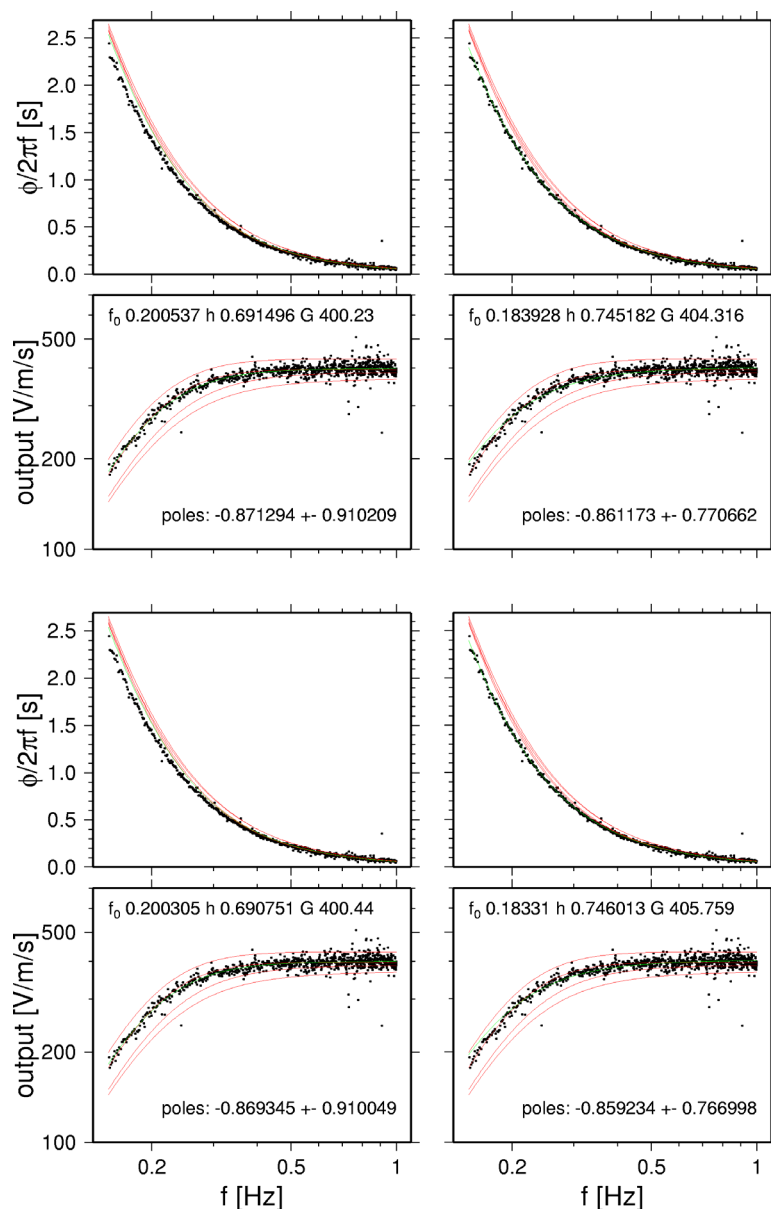
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
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**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 28 Transfer function fit for seismometer GP01, north component, hour 2.**



**Project Acronym: SESAME**

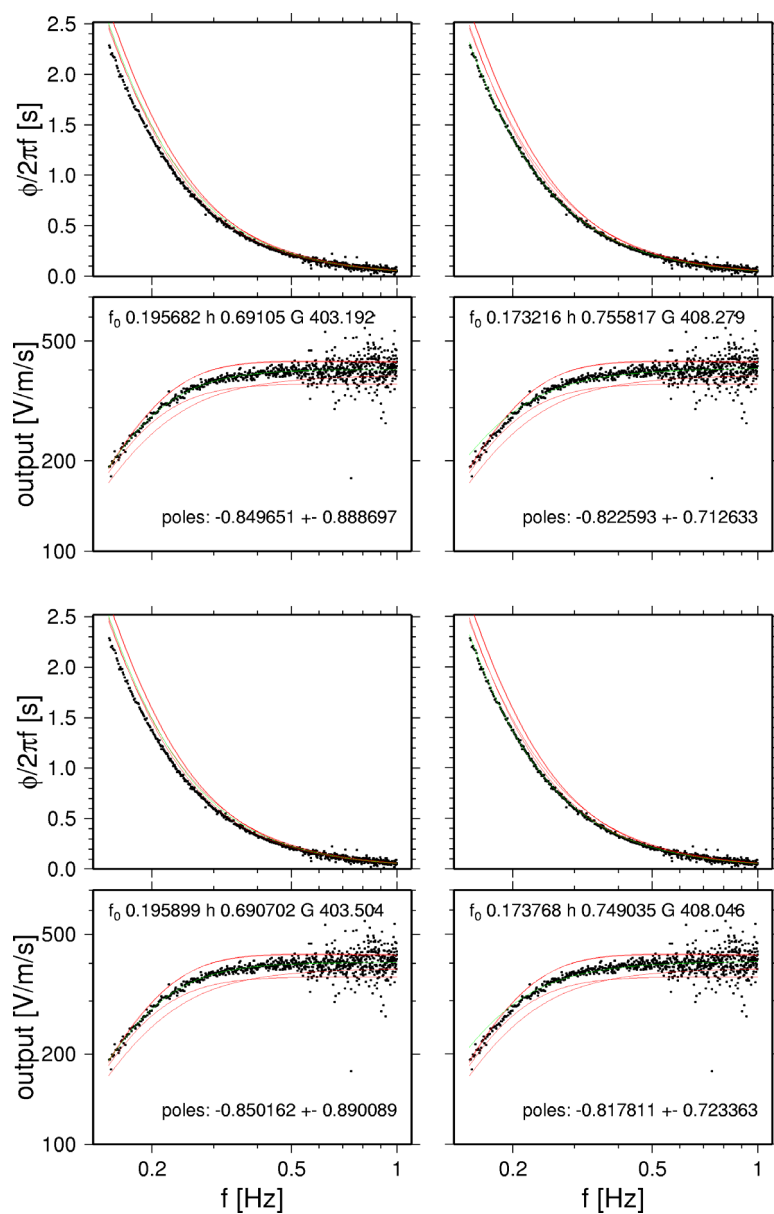
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

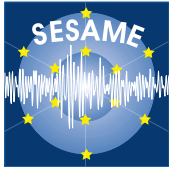
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 29 Transfer function fit for seismometer GP02, north component, hour 1.**



**Project Acronym: SESAME**

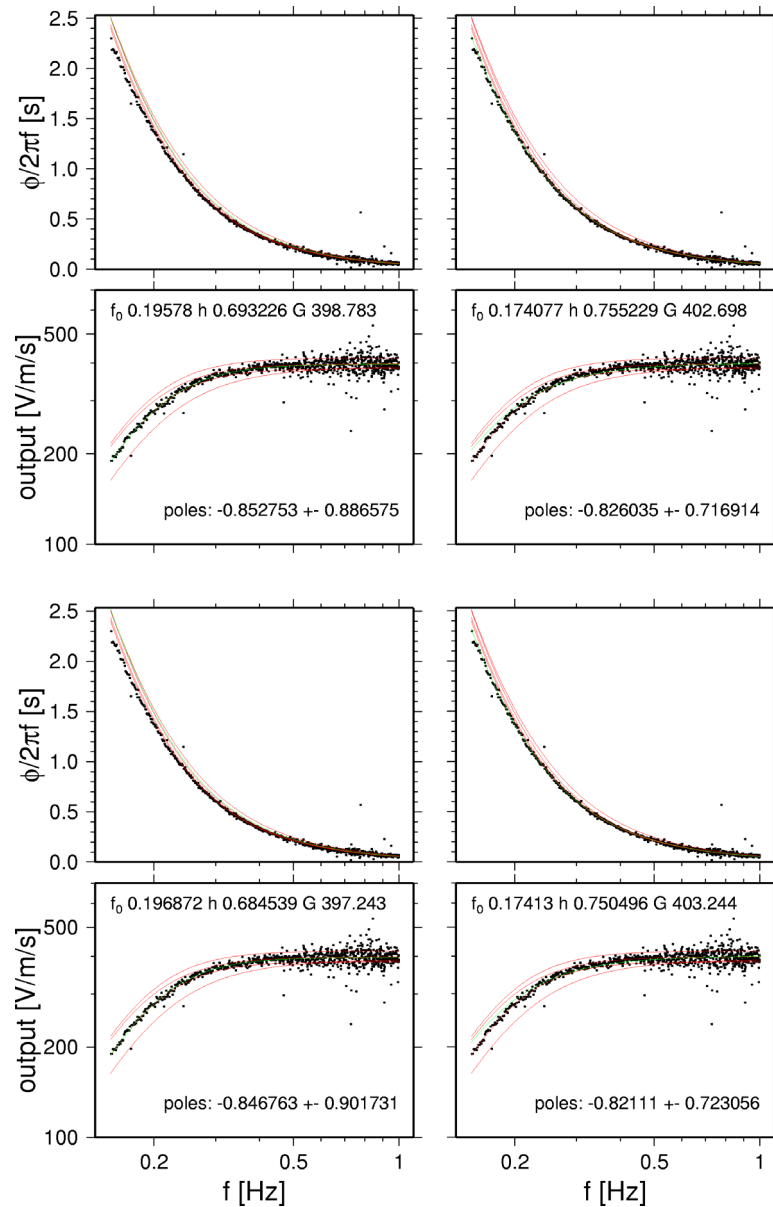
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

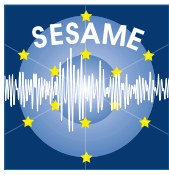
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 30 Transfer function fit for seismometer GP02, north component, hour 2.**



**Project Acronym: SESAME**

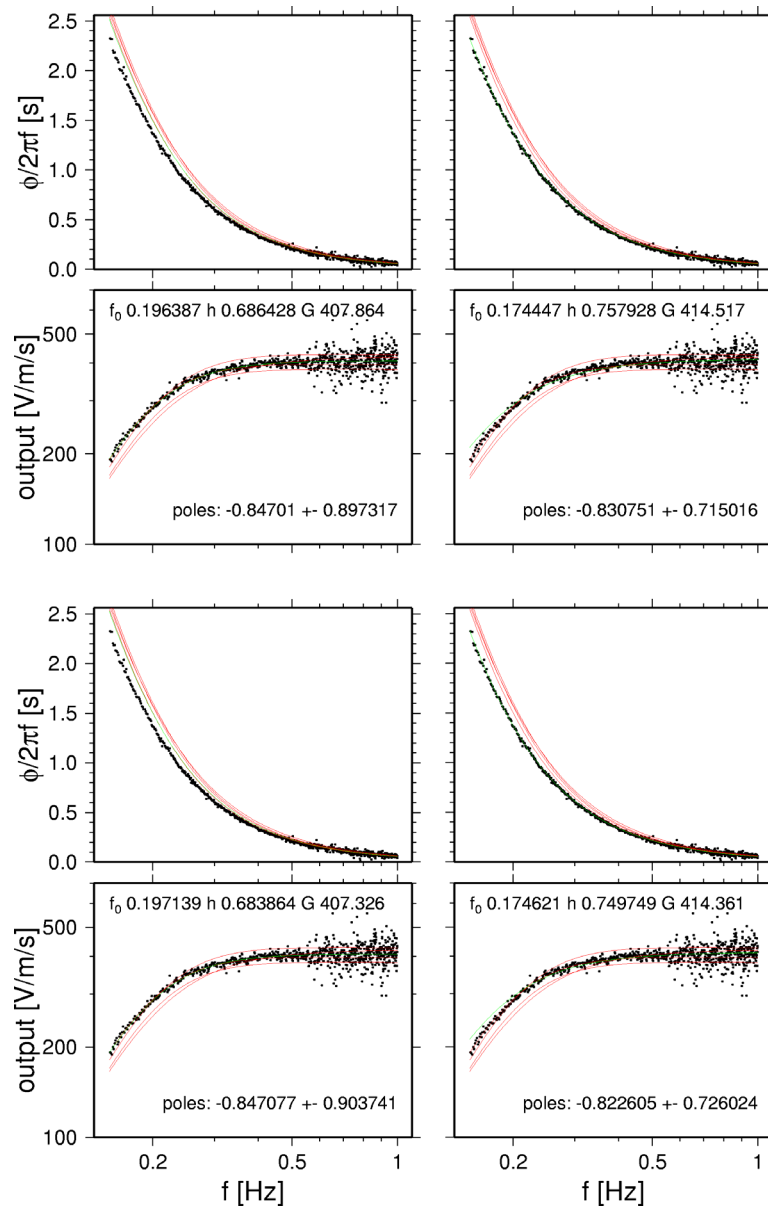
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

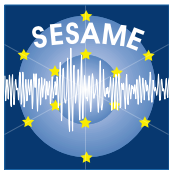
**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 31 Transfer function fit for seismometer GP03, north component, hour 1.**





**Project Acronym: SESAME**

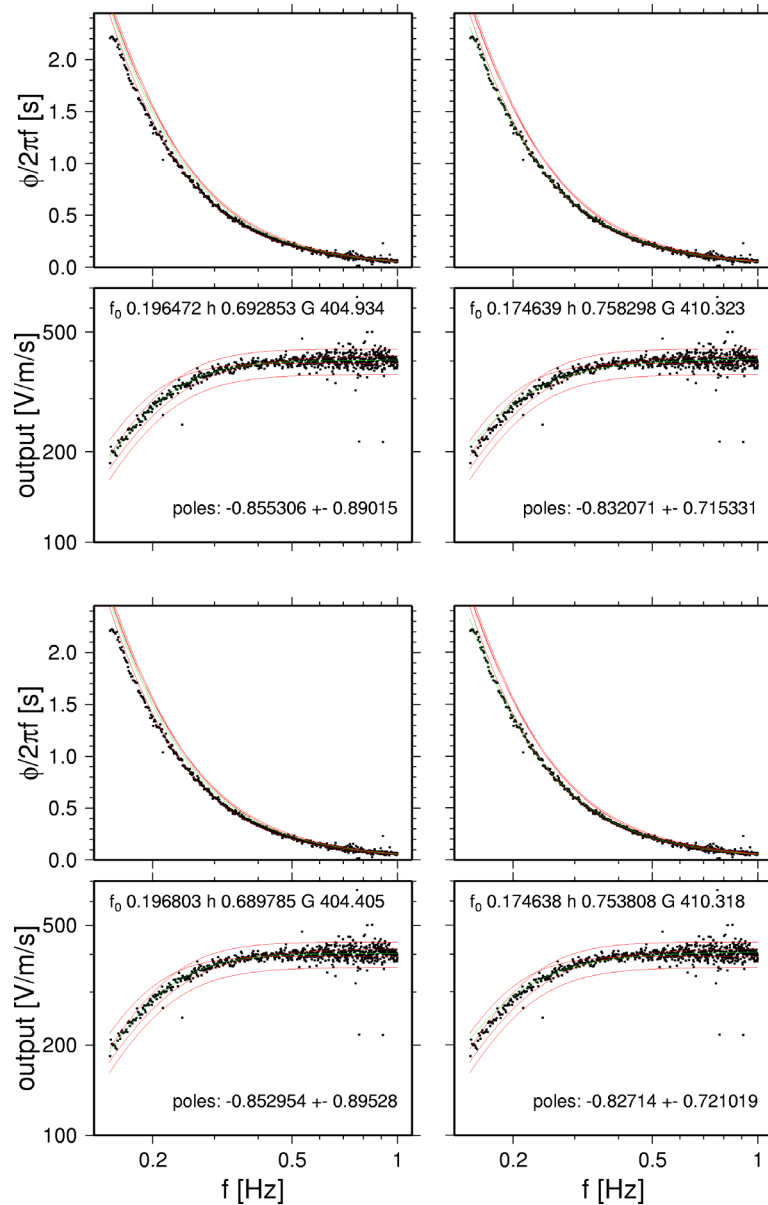
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

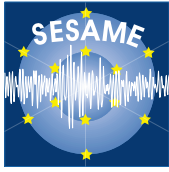
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
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**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 32 Transfer function fit for seismometer GP03, north component, hour 2.**



**Project Acronym: SESAME**

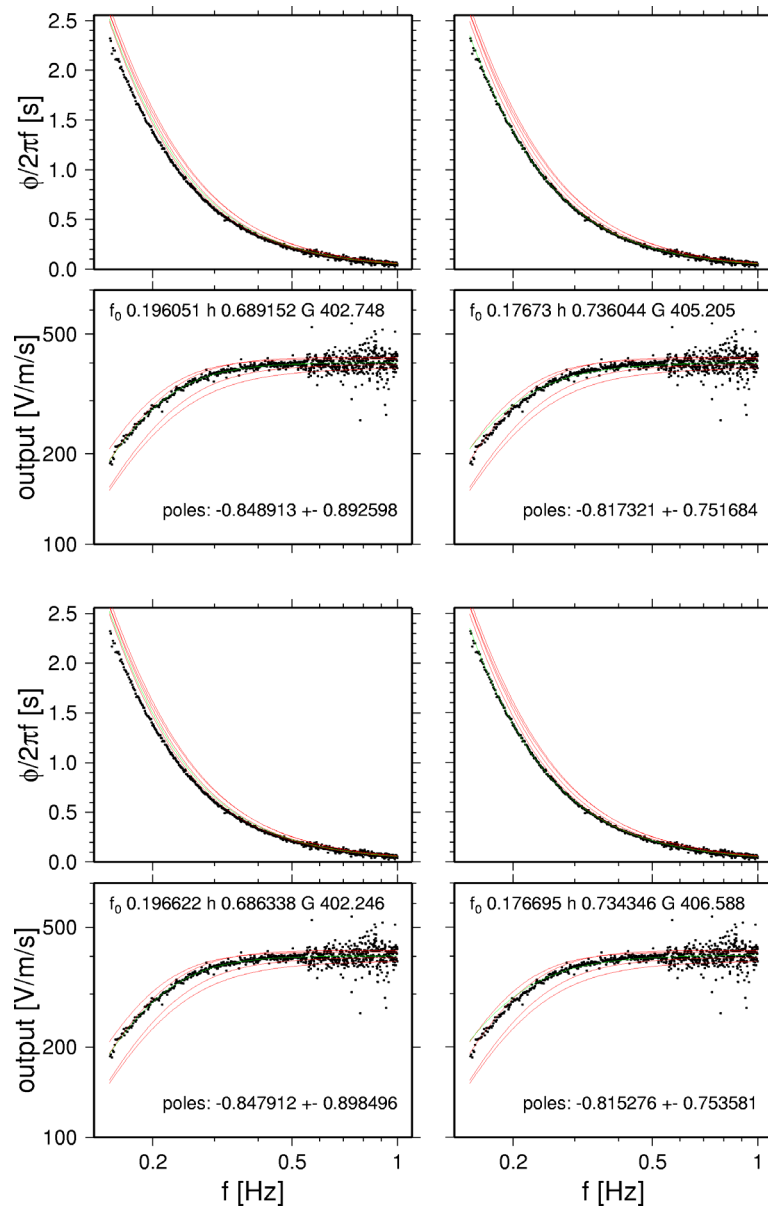
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

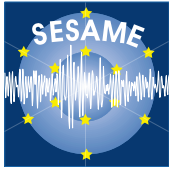
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 33 Transfer function fit for seismometer GP04, north component, hour 1.**



**Project Acronym: SESAME**

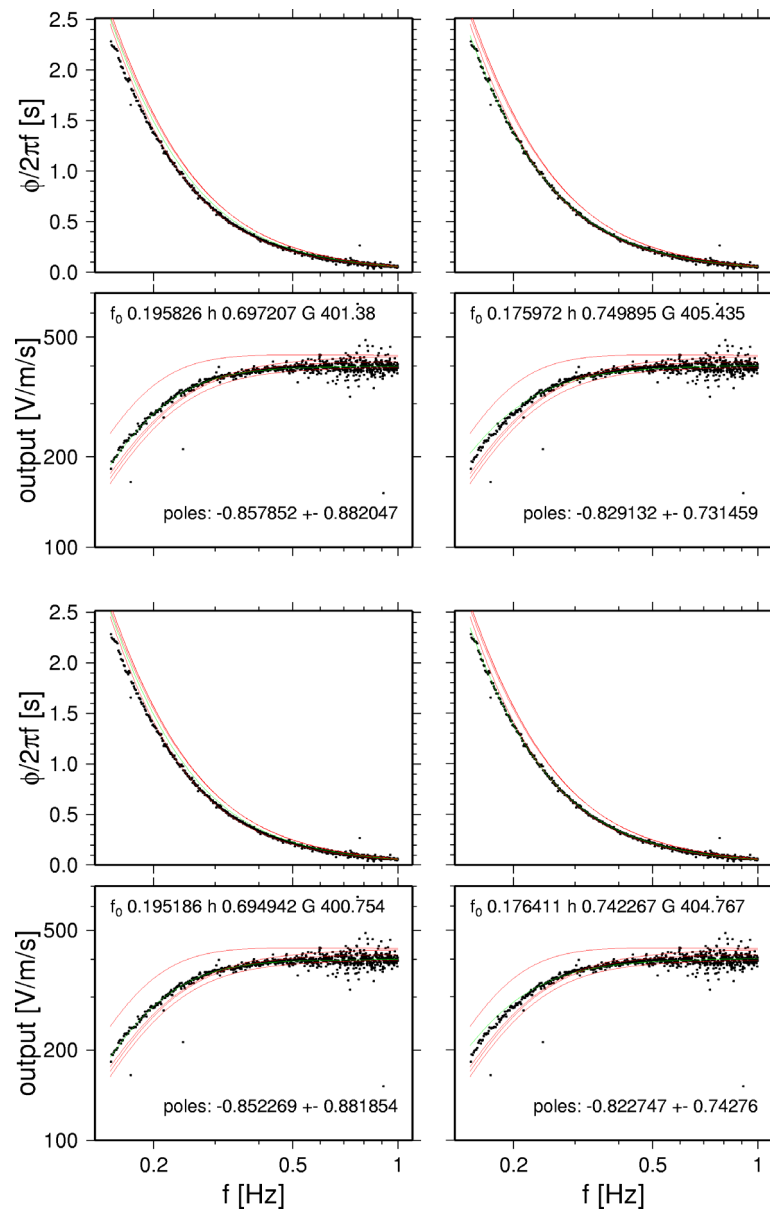
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

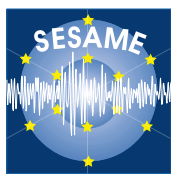
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 34 Transfer function fit for seismometer GP04, north component, hour 2.**



**Project Acronym: SESAME**

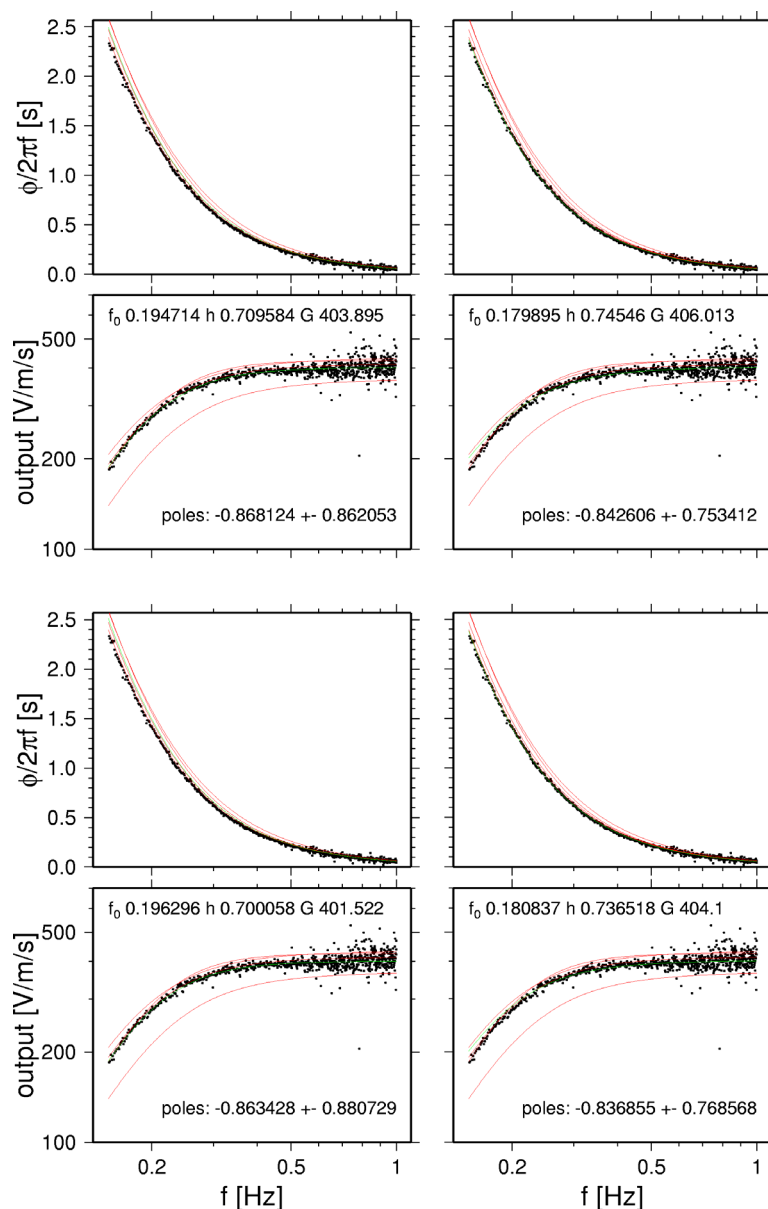
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

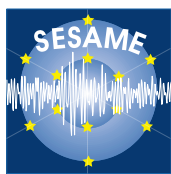
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
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**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 35 Transfer function fit for seismometer GP05, north component, hour 1.**



**Project Acronym: SESAME**

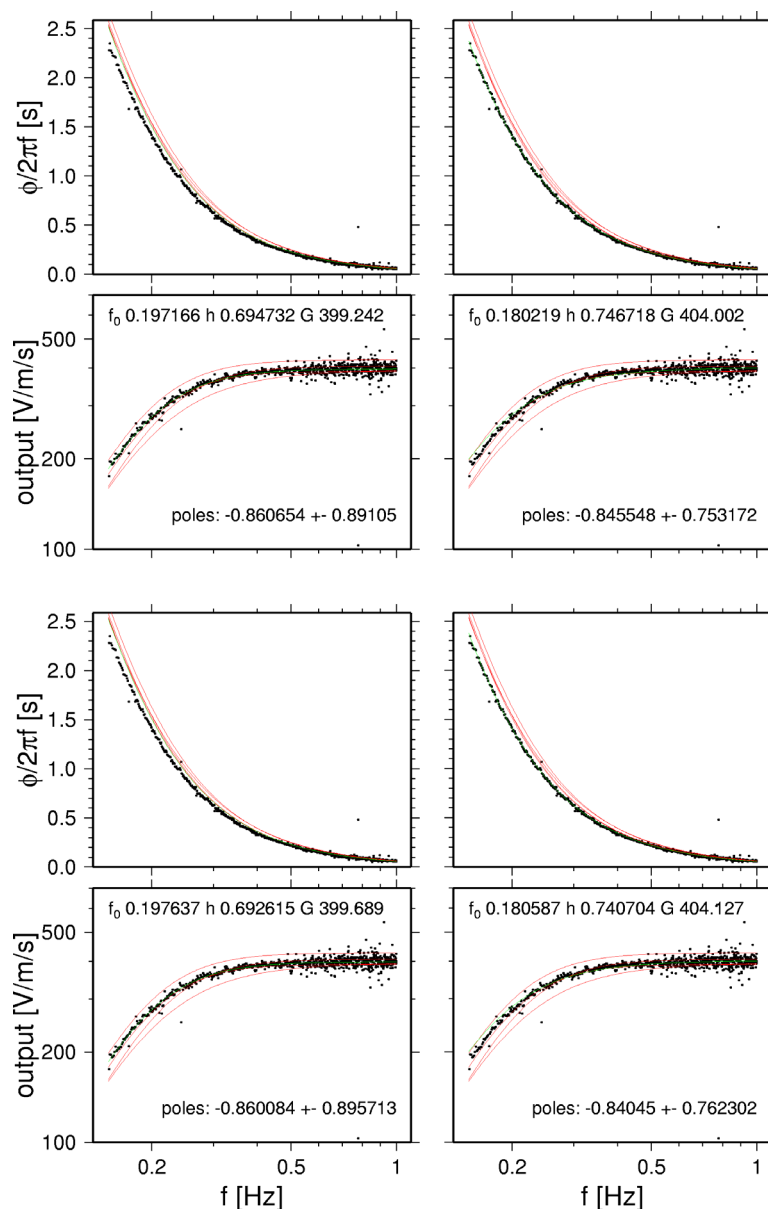
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

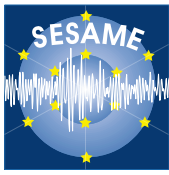
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 36 Transfer function fit for seismometer GP05, north component, hour 2.**



**Project Acronym: SESAME**

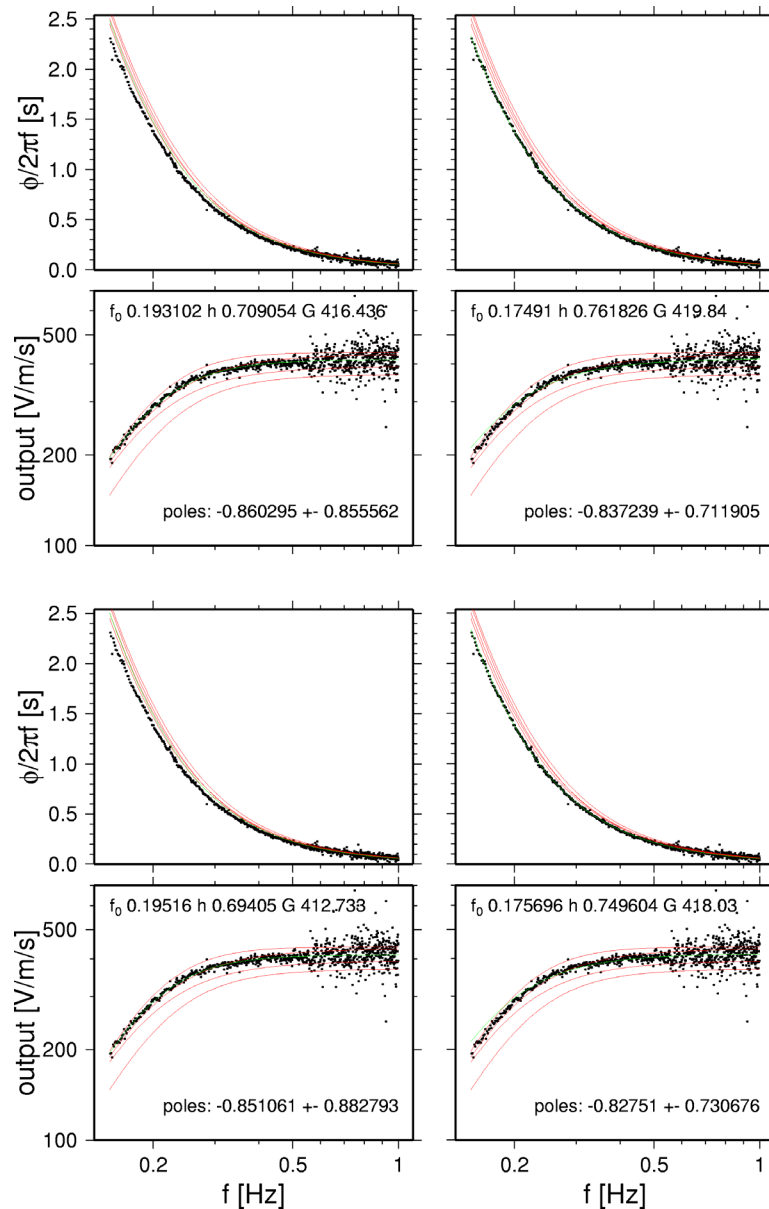
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

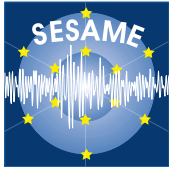
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 37 Transfer function fit for seismometer GP06, north component, hour 1.**



**Project Acronym: SESAME**

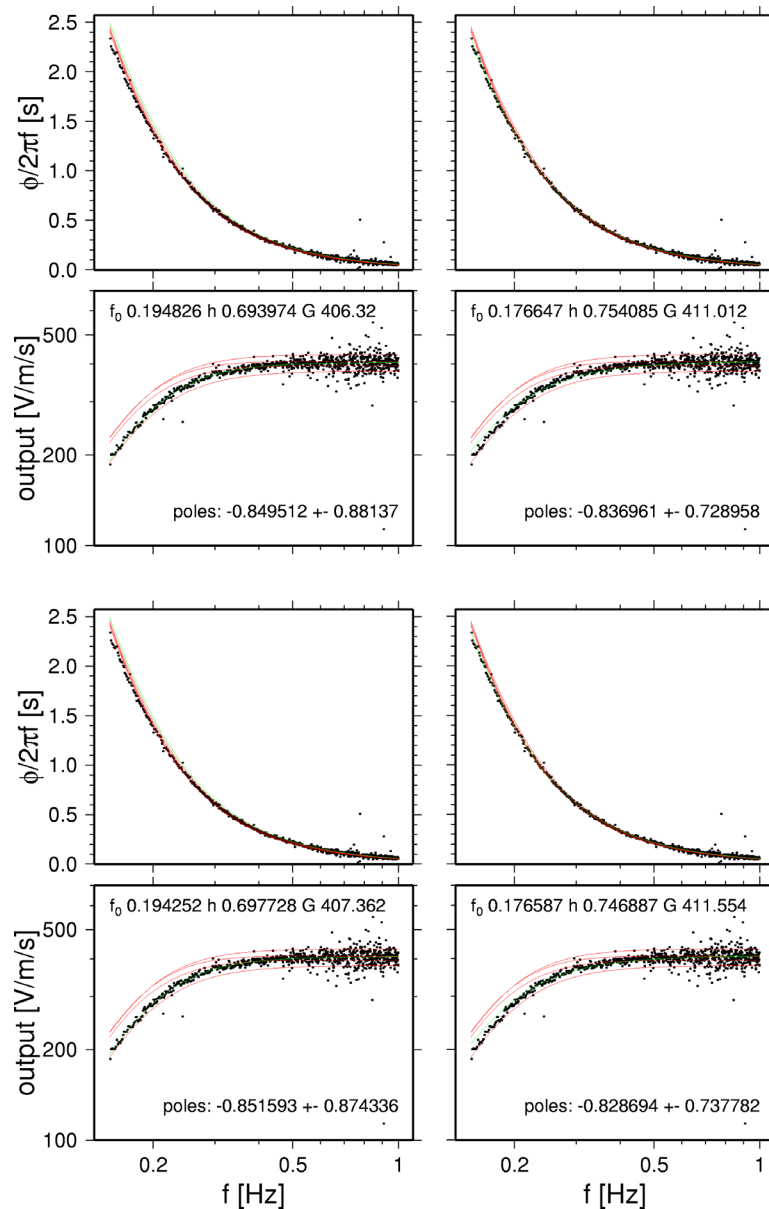
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

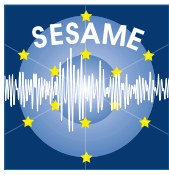
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 38 Transfer function fit for seismometer GP06, north component, hour 2.**



**Project Acronym: SESAME**

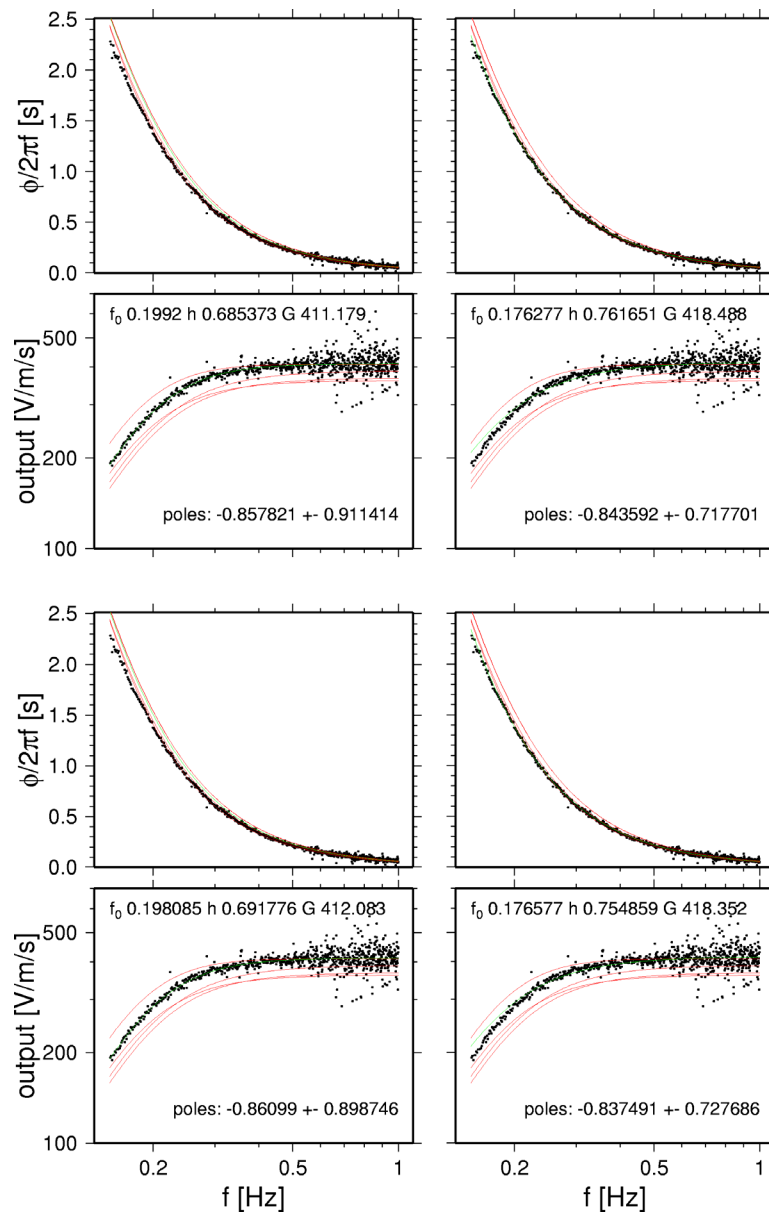
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

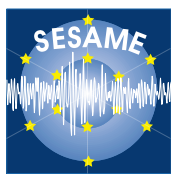
**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 39 Transfer function fit for seismometer GP07, north component, hour 1.**





**Project Acronym: SESAME**

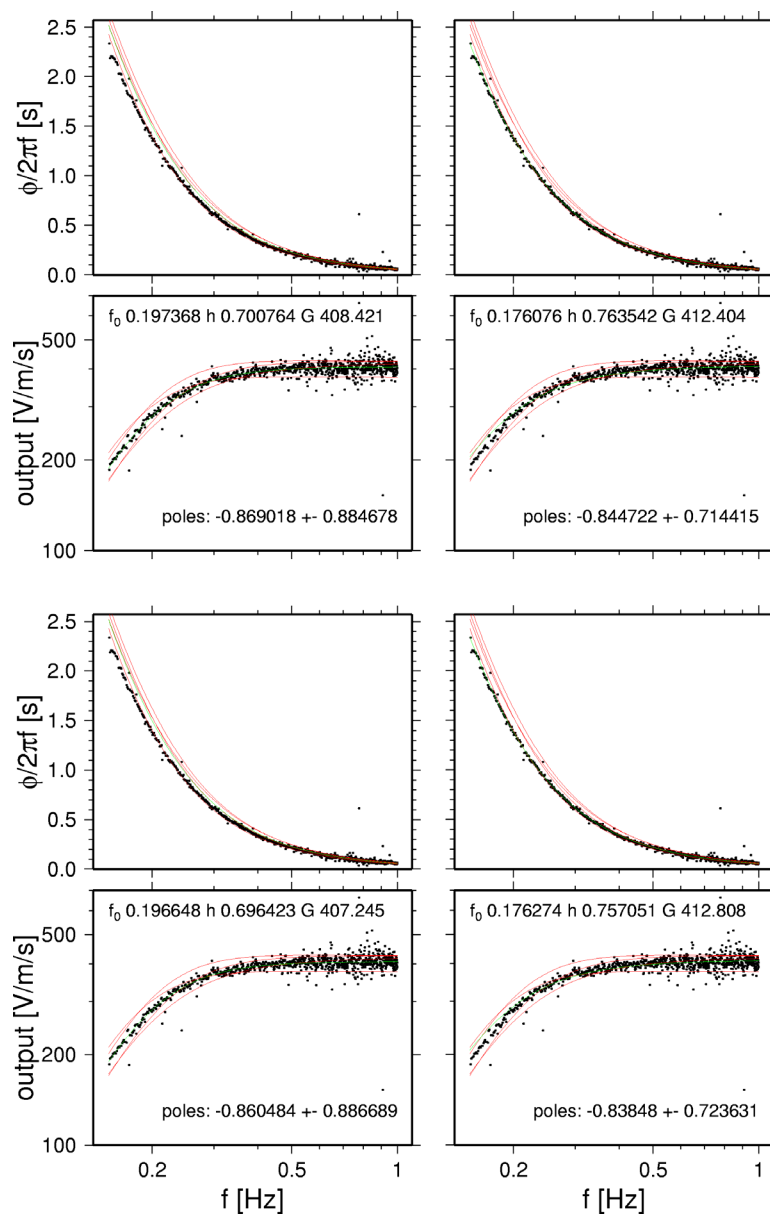
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

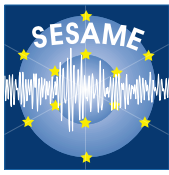
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 40 Transfer function fit for seismometer GP07, north component, hour 2.**



**Project Acronym: SESAME**

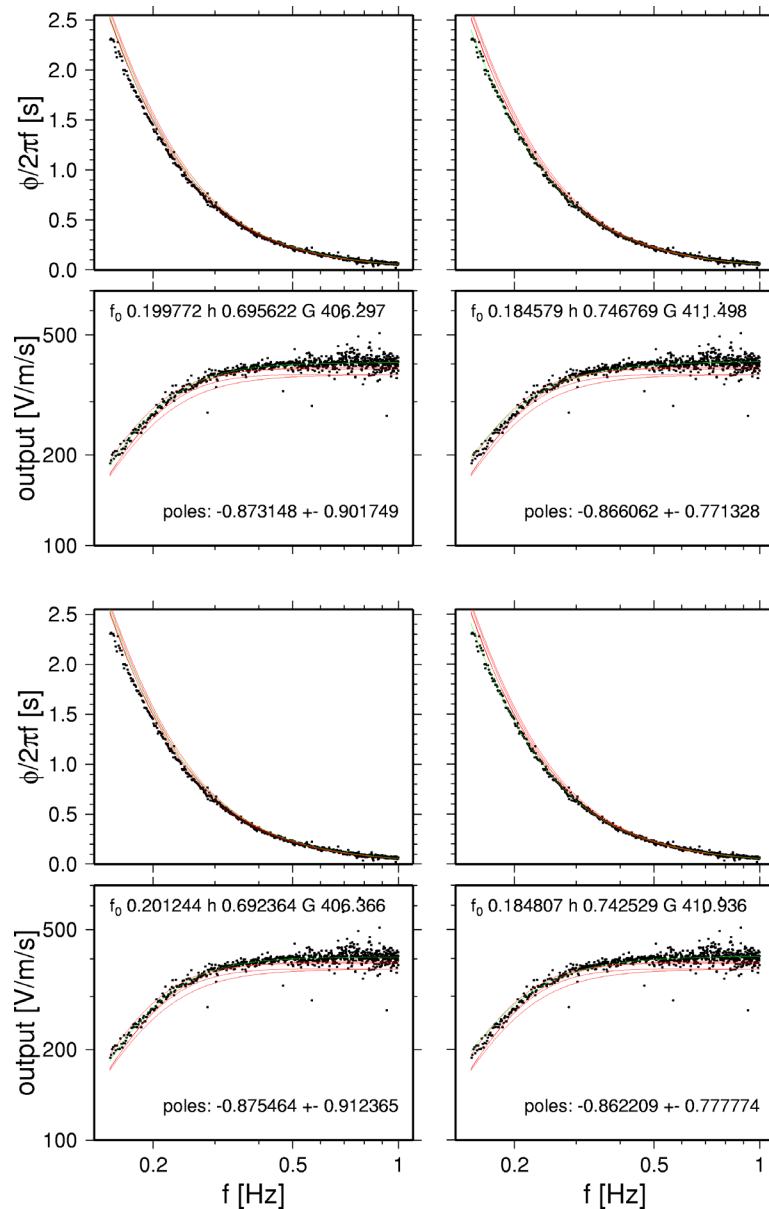
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

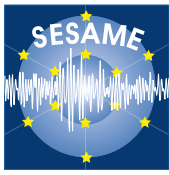
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 41 Transfer function fit for seismometer GP08, north component, hour 1.**



**Project Acronym: SESAME**

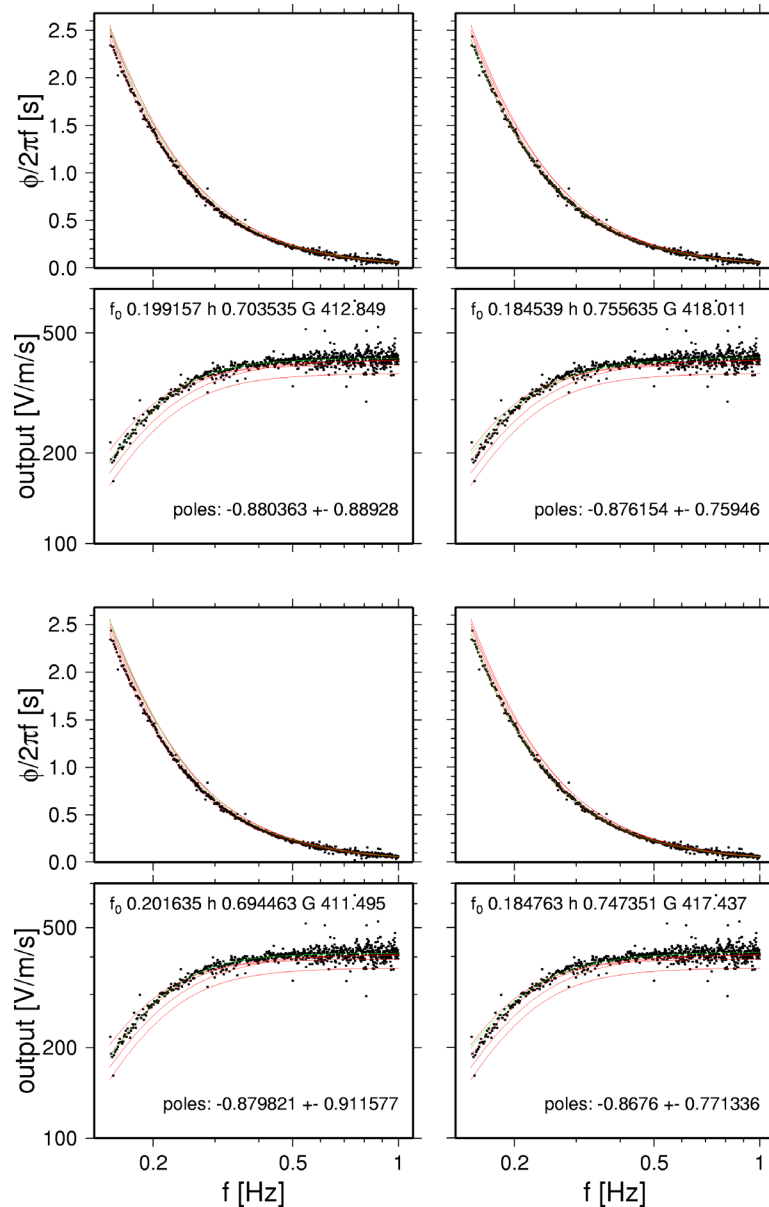
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 42 Transfer function fit for seismometer GP08, north component, hour 2.**



**Project Acronym: SESAME**

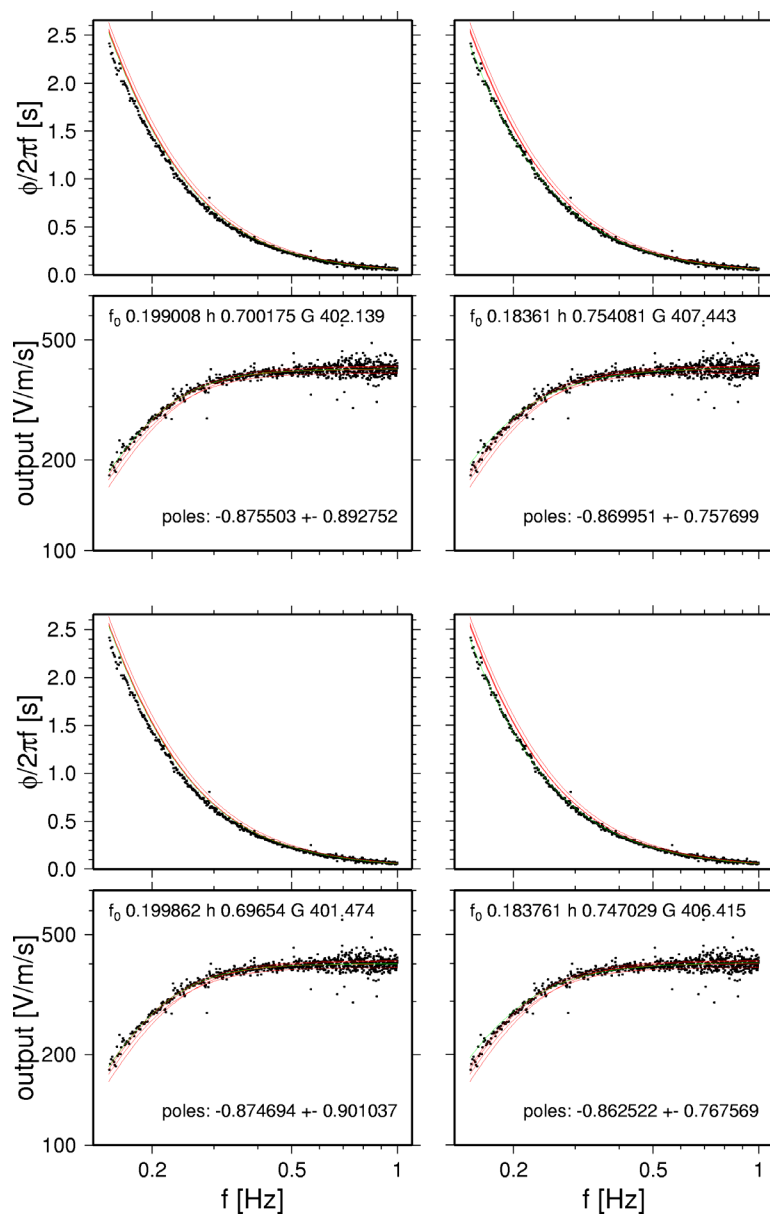
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

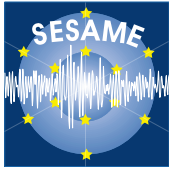
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 43 Transfer function fit for seismometer GP09, north component, hour 1.**



**Project Acronym: SESAME**

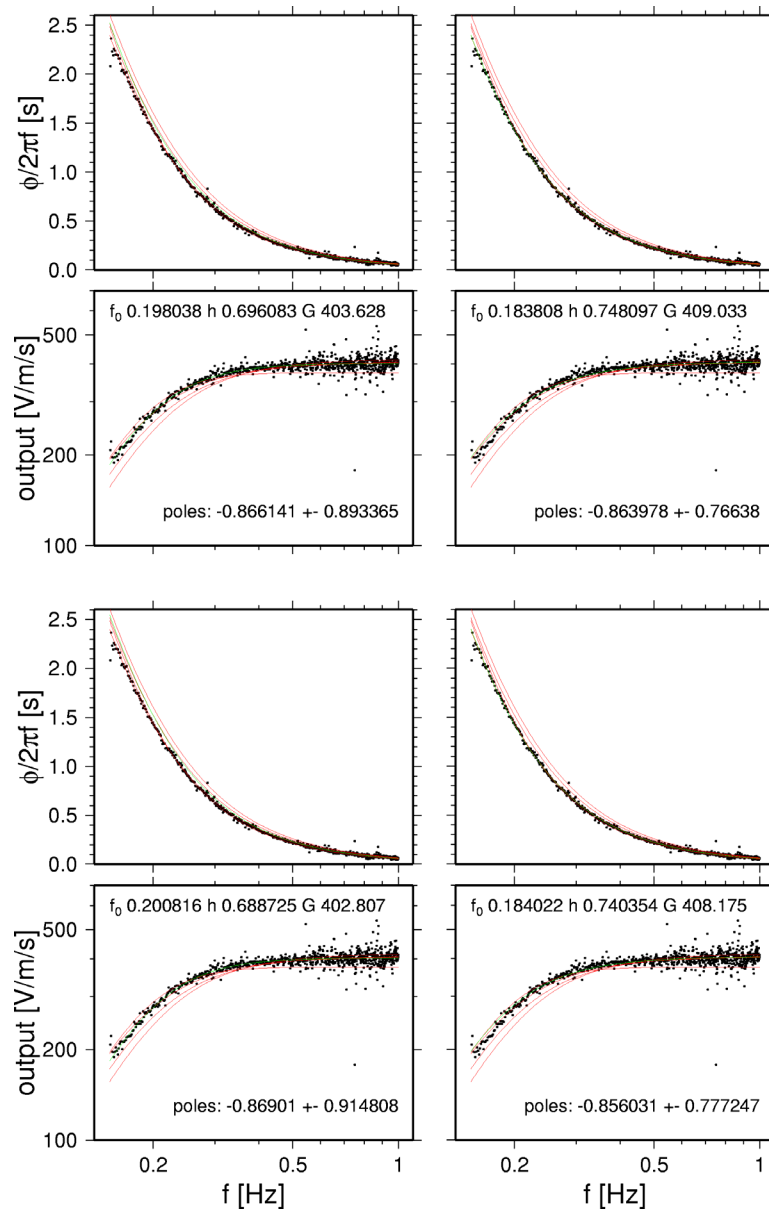
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

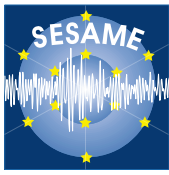
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 44 Transfer function fit for seismometer GP09, north component, hour 2.**



**Project Acronym: SESAME**

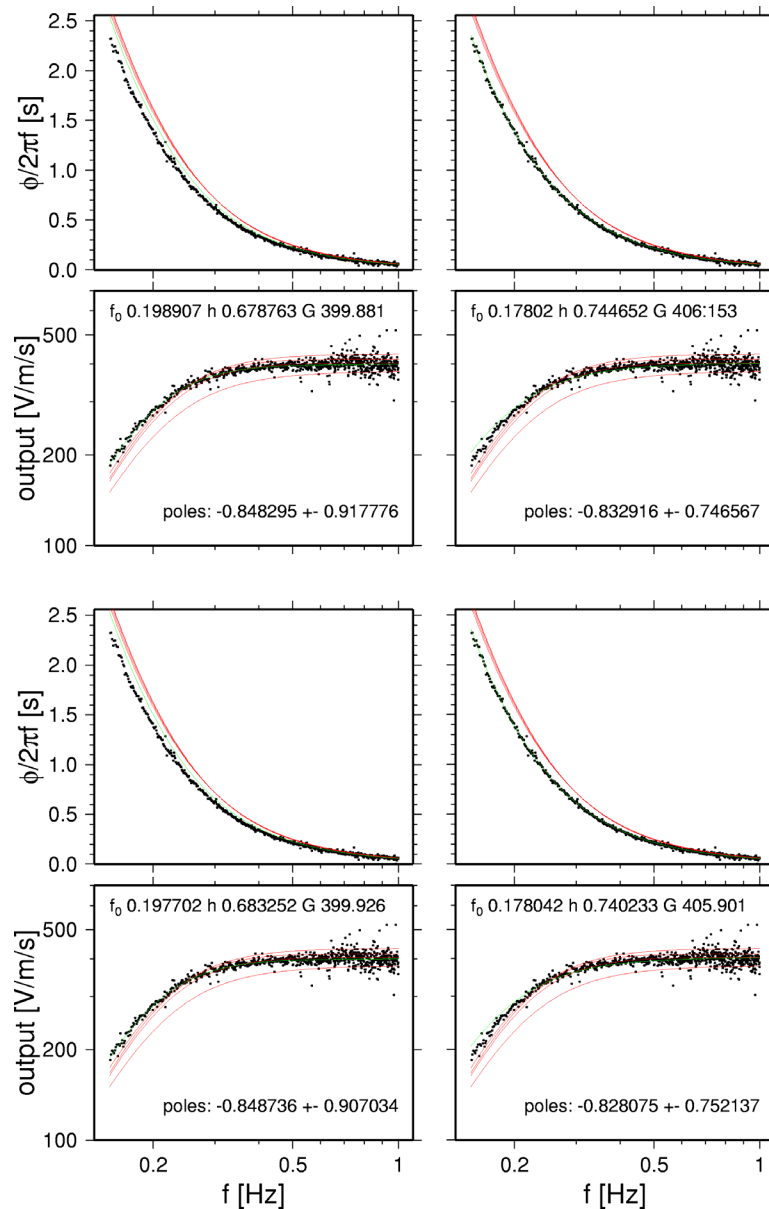
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

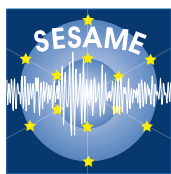
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 45 Transfer function fit for seismometer GP10, north component, hour 1.**



**Project Acronym: SESAME**

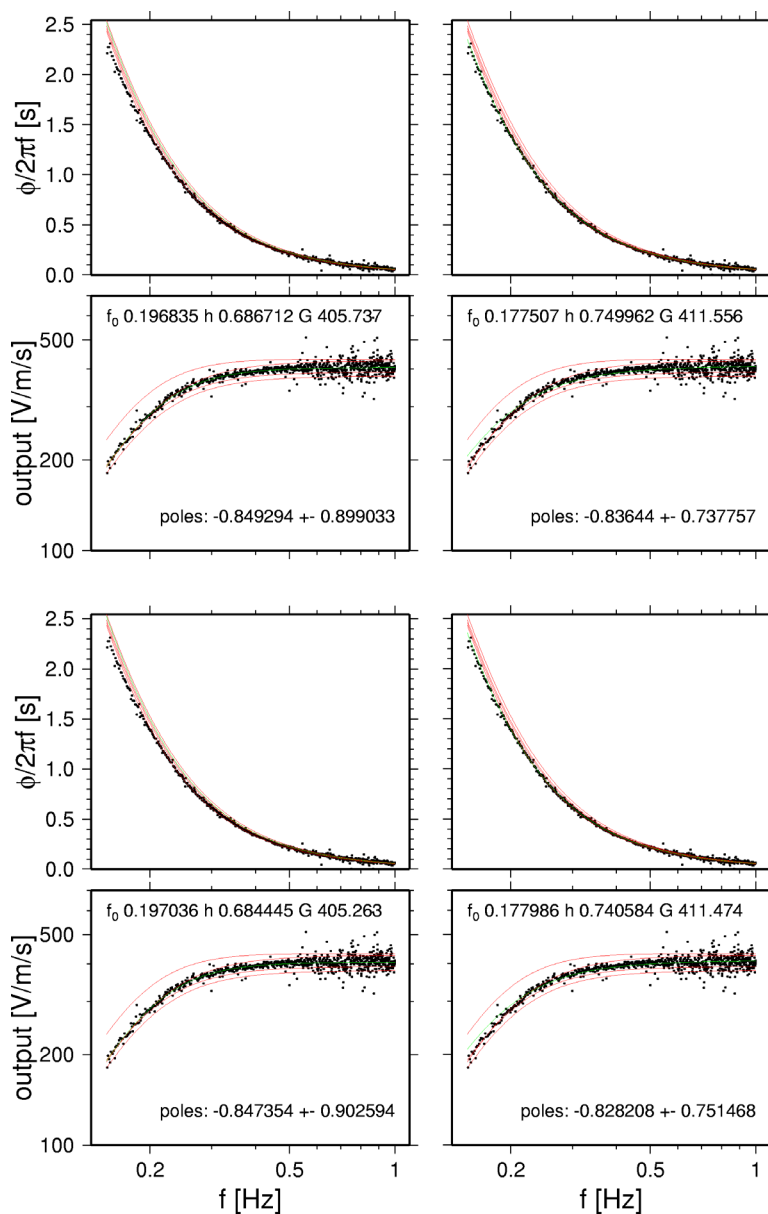
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 46 Transfer function fit for seismometer GP10, north component, hour 2.**



**Project Acronym: SESAME**

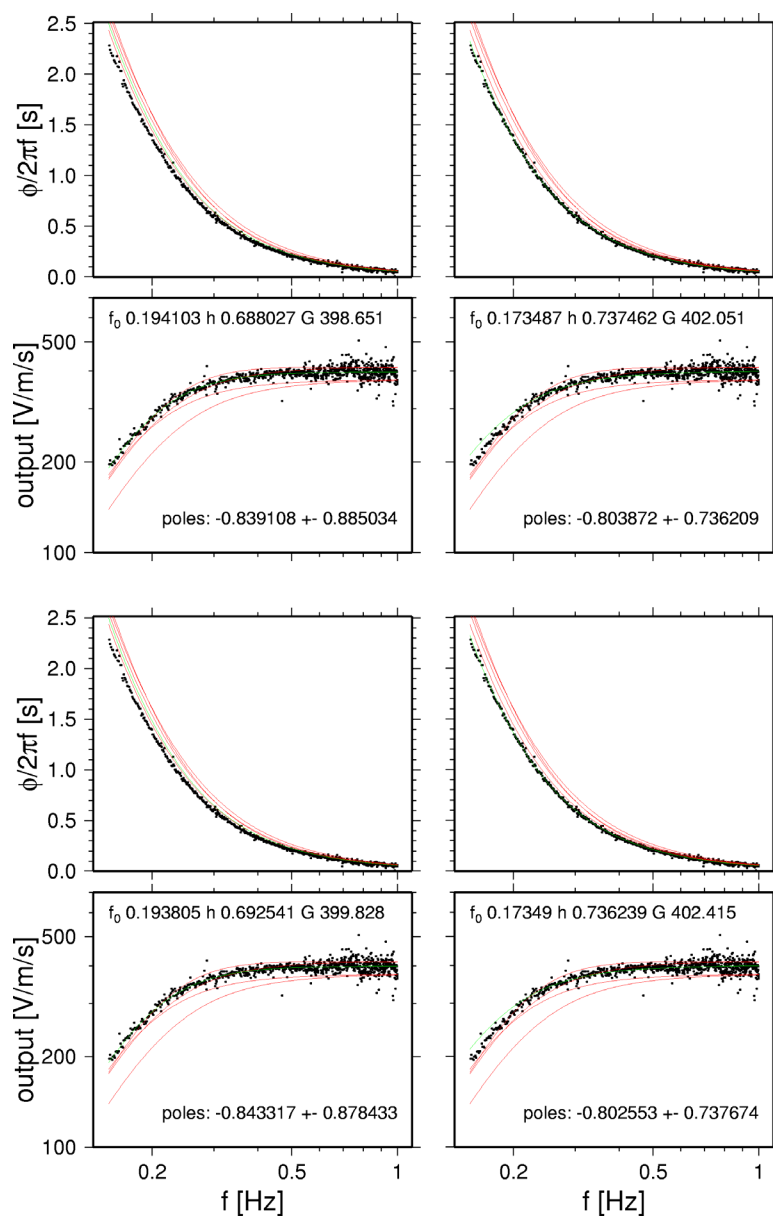
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

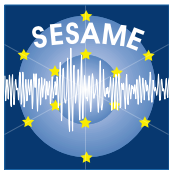
**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 47 Transfer function fit for seismometer GP11, north component, hour 1.**





**Project Acronym: SESAME**

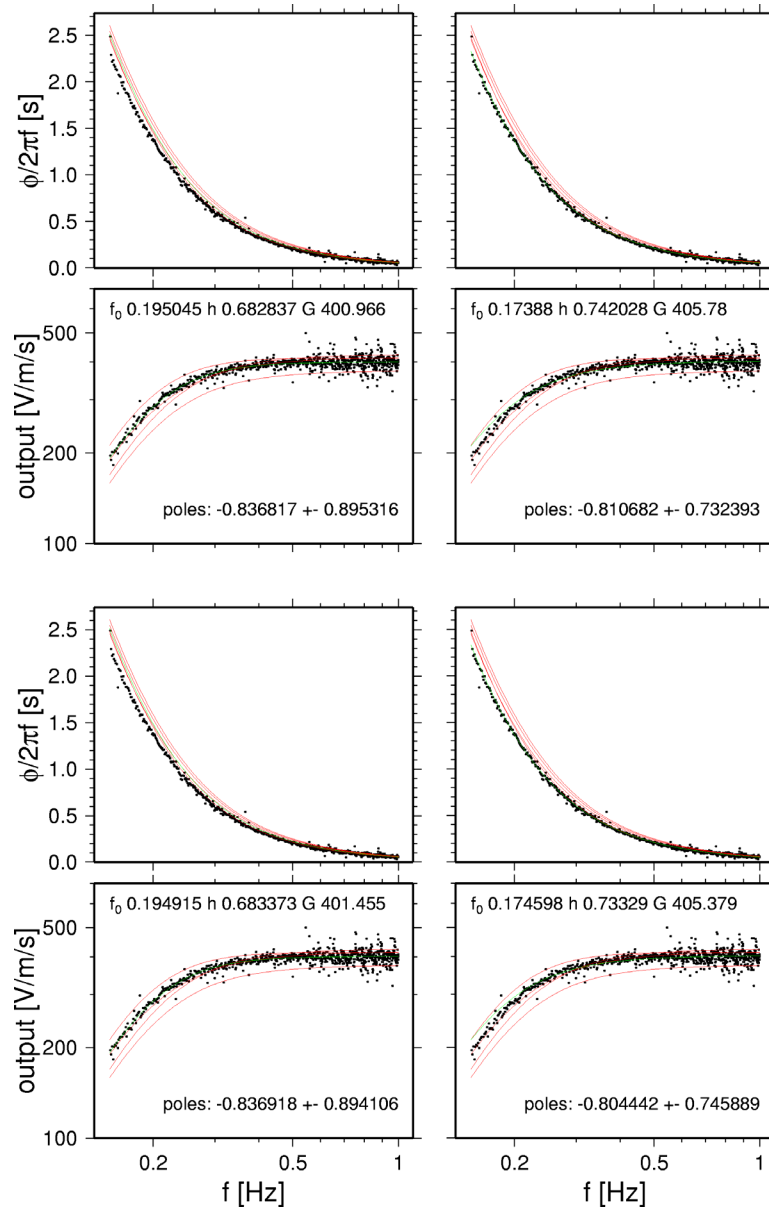
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

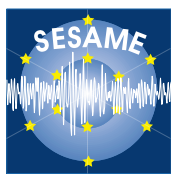
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements**

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 48 Transfer function fit for seismometer GP11, north component, hour 2.**



**Project Acronym: SESAME**

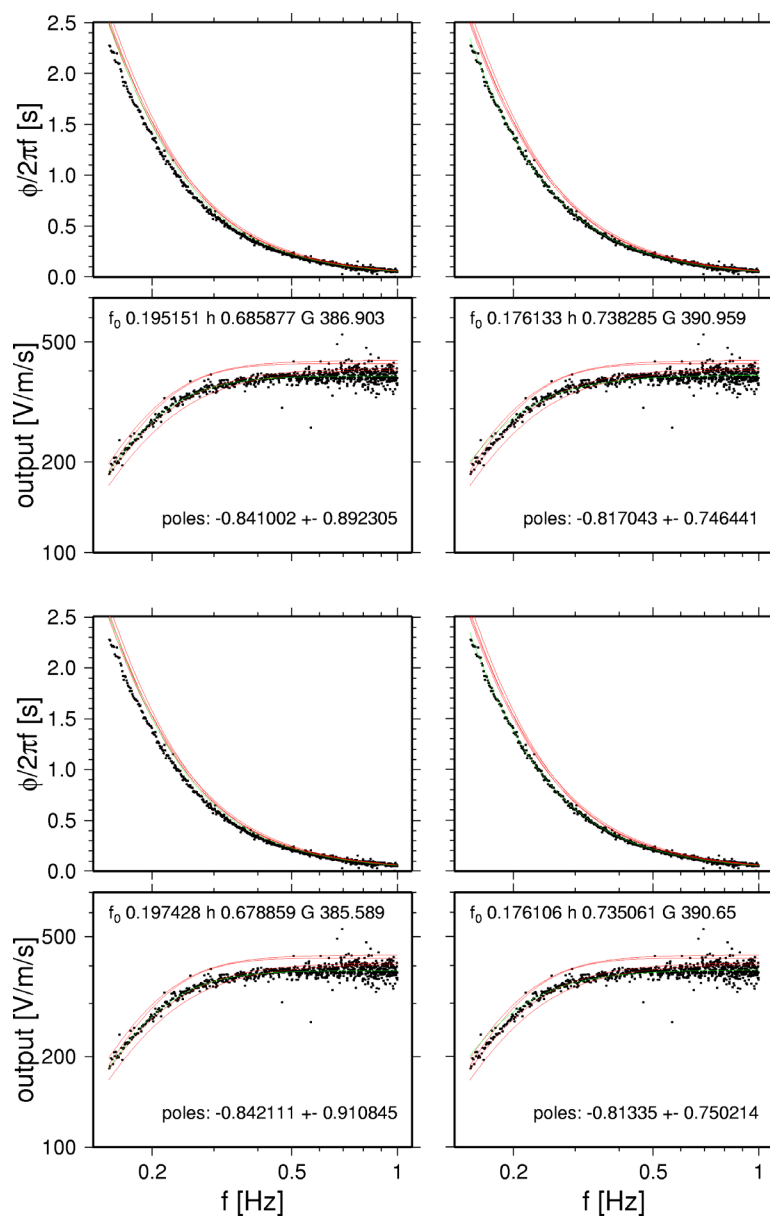
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

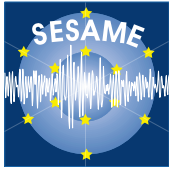
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 49 Transfer function fit for seismometer GP12, north component, hour 1.**



**Project Acronym: SESAME**

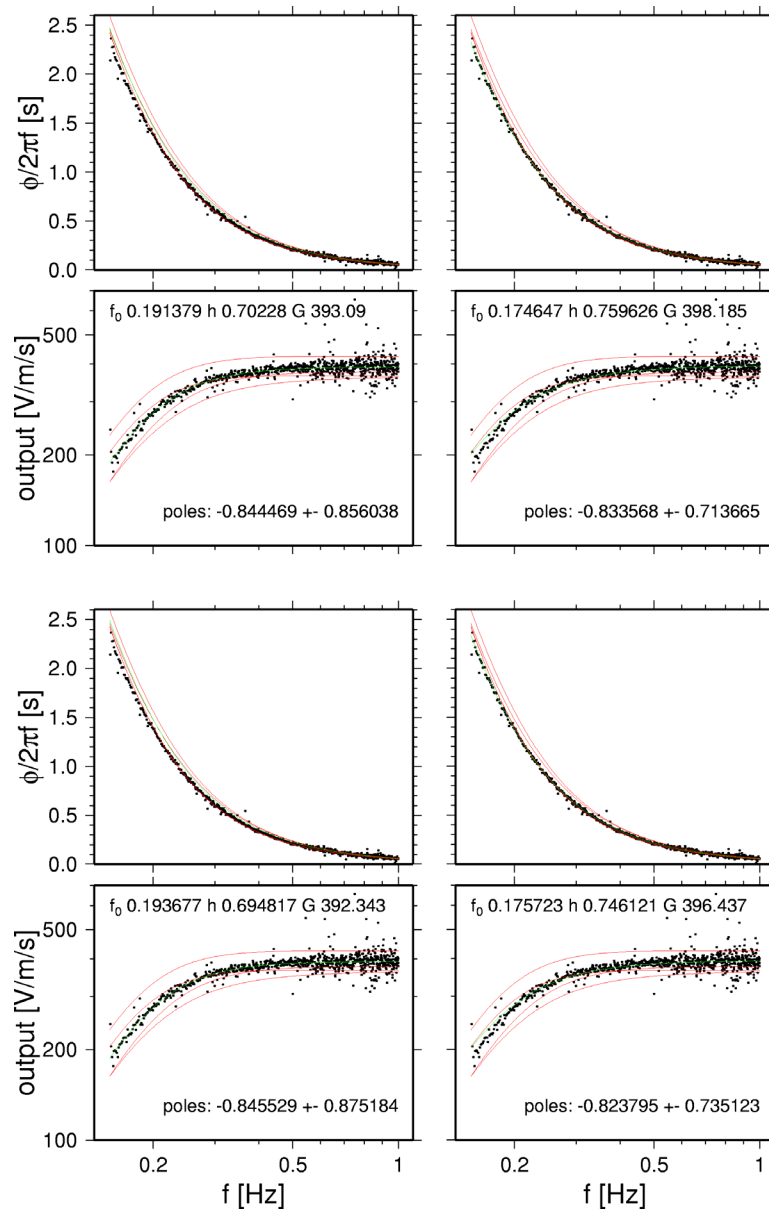
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 50 Transfer function fit for seismometer GP12, north component, hour 2.**



**Project Acronym: SESAME**

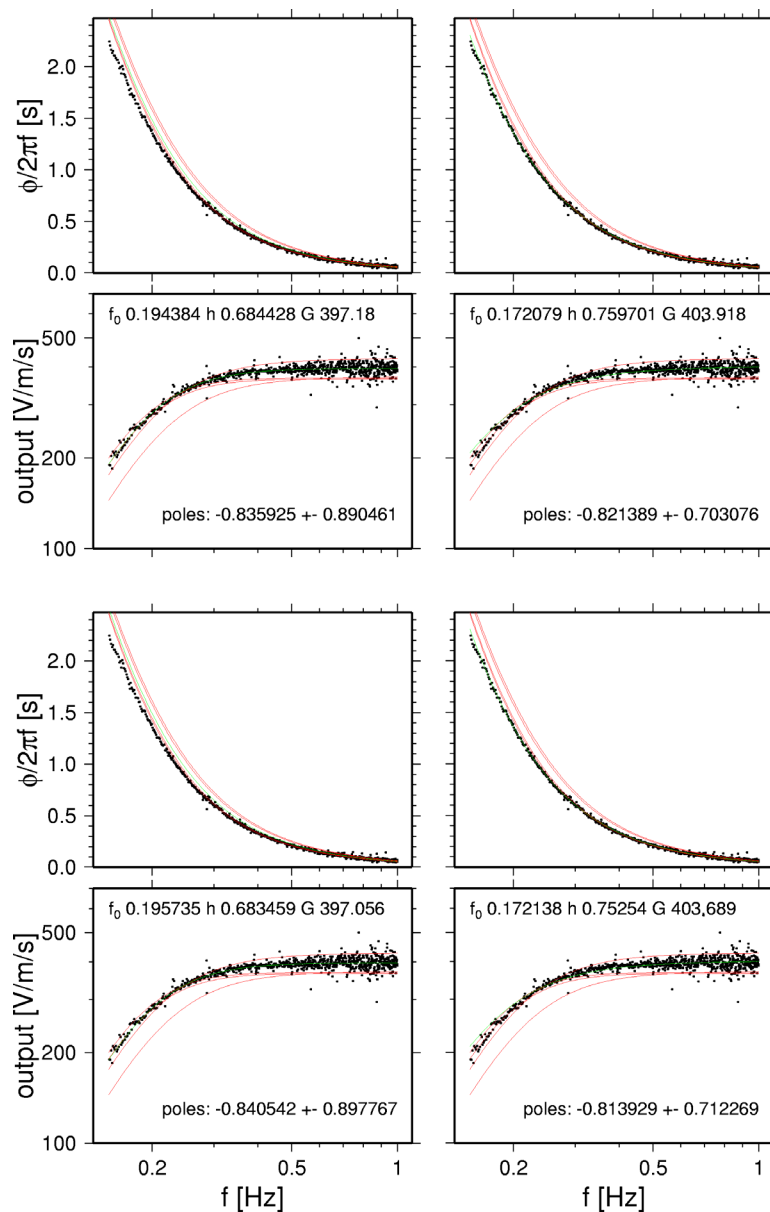
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

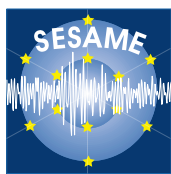
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 51 Transfer function fit for seismometer GP13, north component, hour 1.**



**Project Acronym: SESAME**

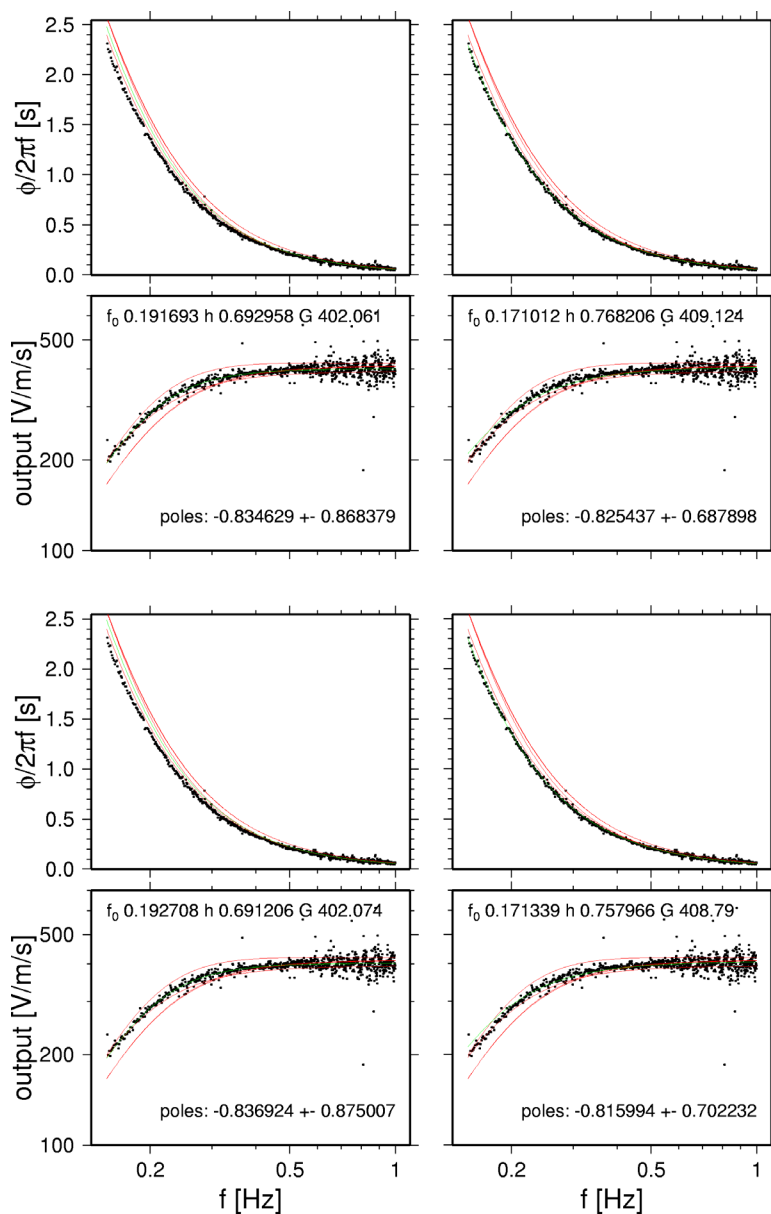
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 52 Transfer function fit for seismometer GP13, north component, hour 2.**



**Project Acronym: SESAME**

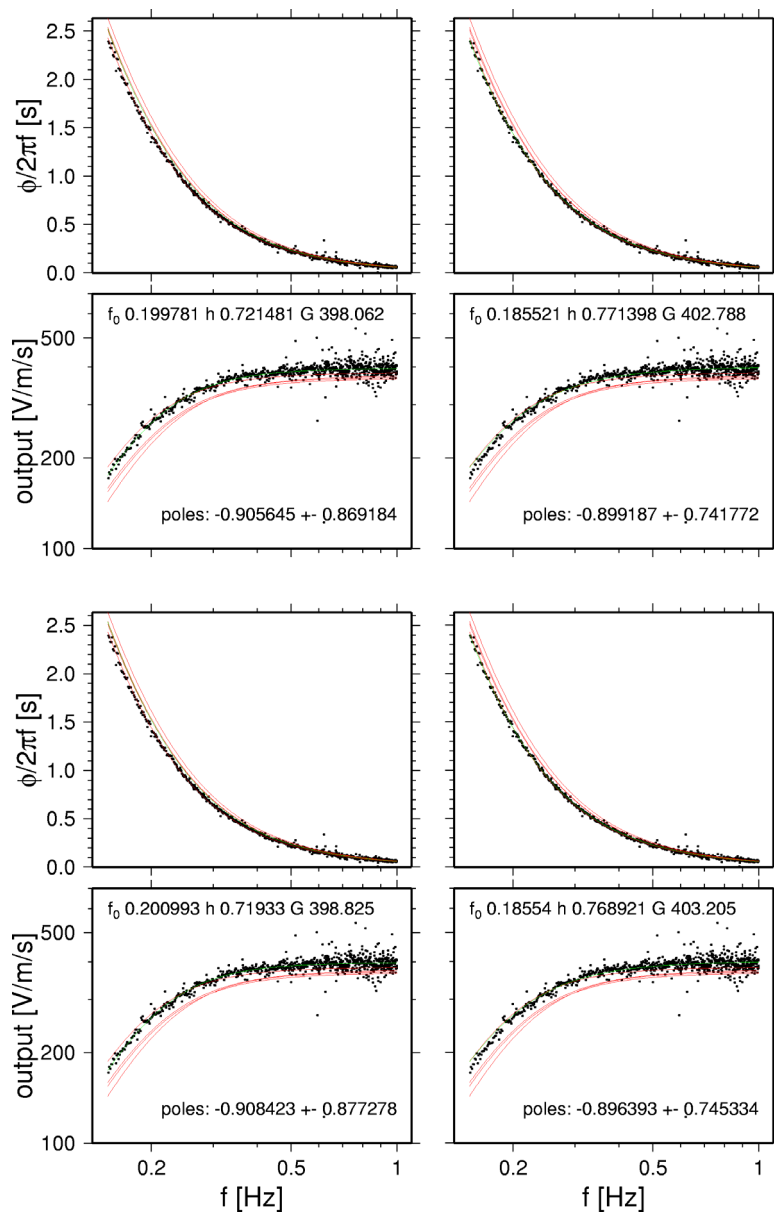
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

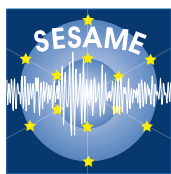
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 53 Transfer function fit for seismometer GP01, east component, hour 1.**



**Project Acronym: SESAME**

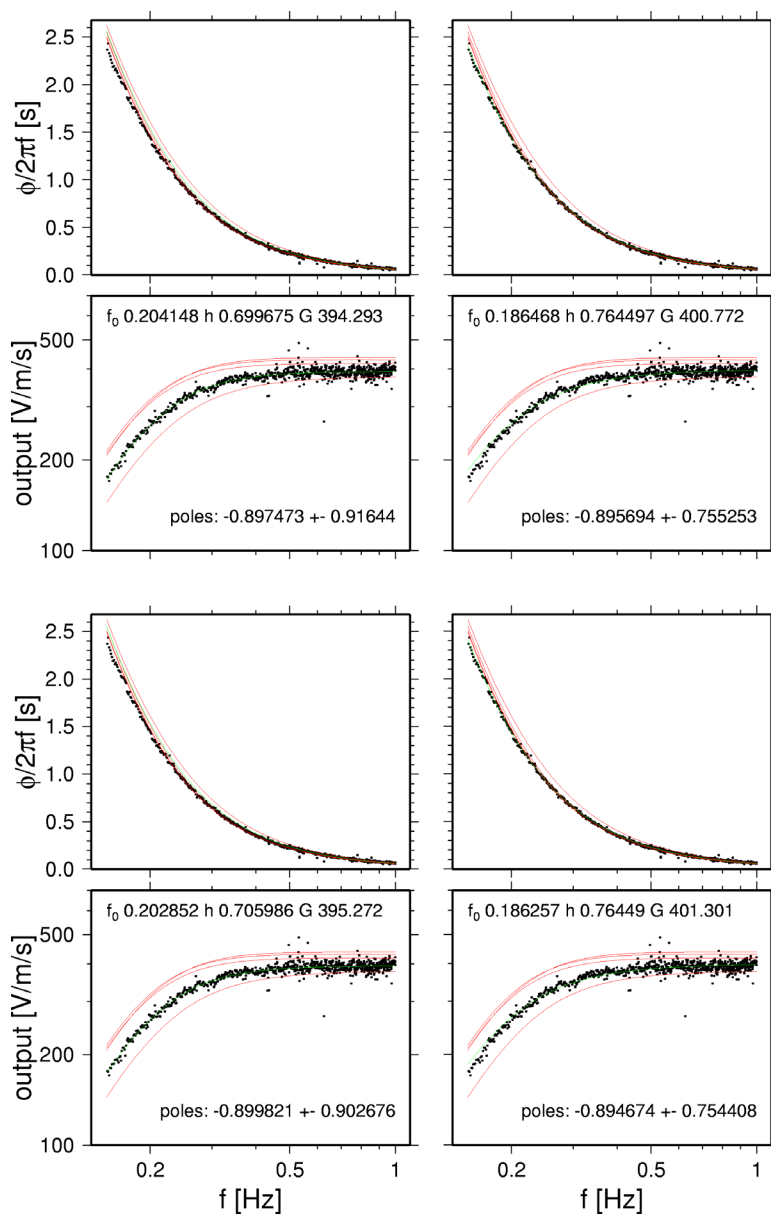
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
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**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 54 Transfer function fit for seismometer GP01, east component, hour 2.**



**Project Acronym: SESAME**

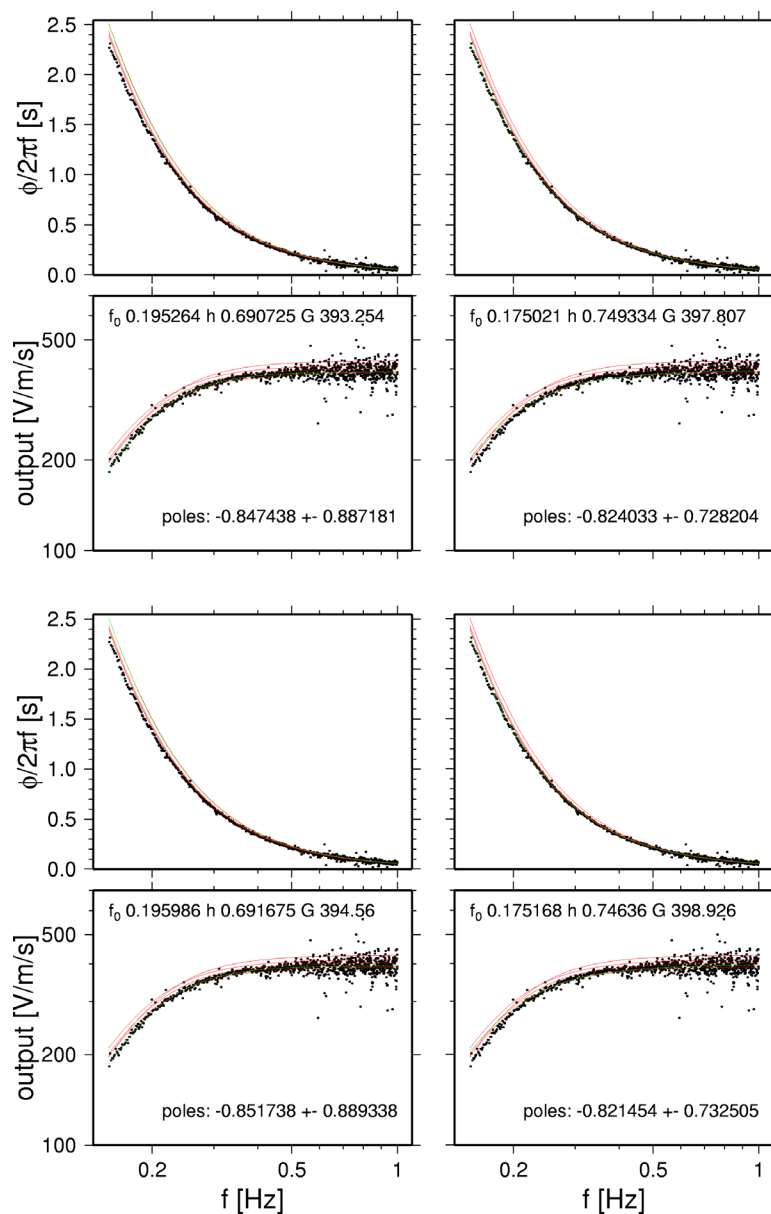
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

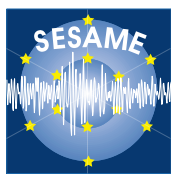
**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 55 Transfer function fit for seismometer GP02, east component, hour 1.**





**Project Acronym: SESAME**

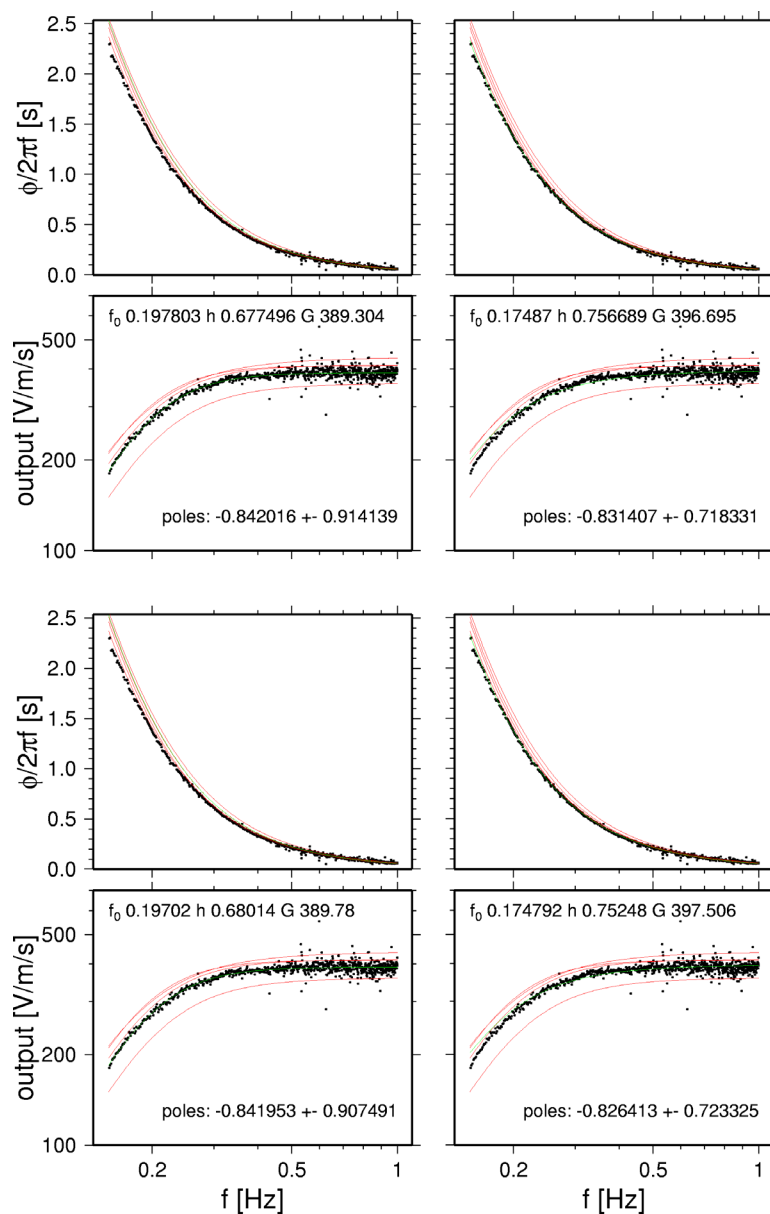
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 56 Transfer function fit for seismometer GP02, east component, hour 2.**



**Project Acronym: SESAME**

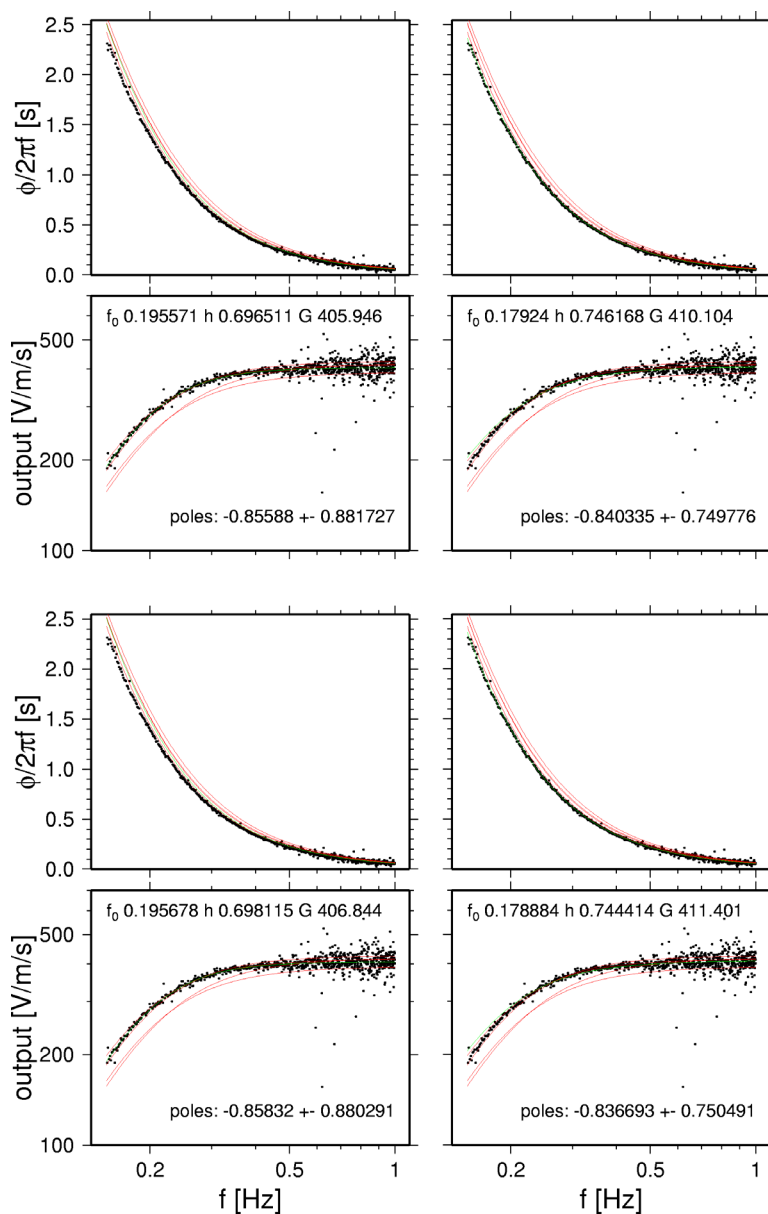
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

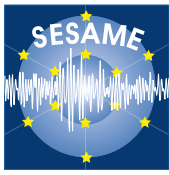
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 57 Transfer function fit for seismometer GP03, east component, hour 1.**



**Project Acronym: SESAME**

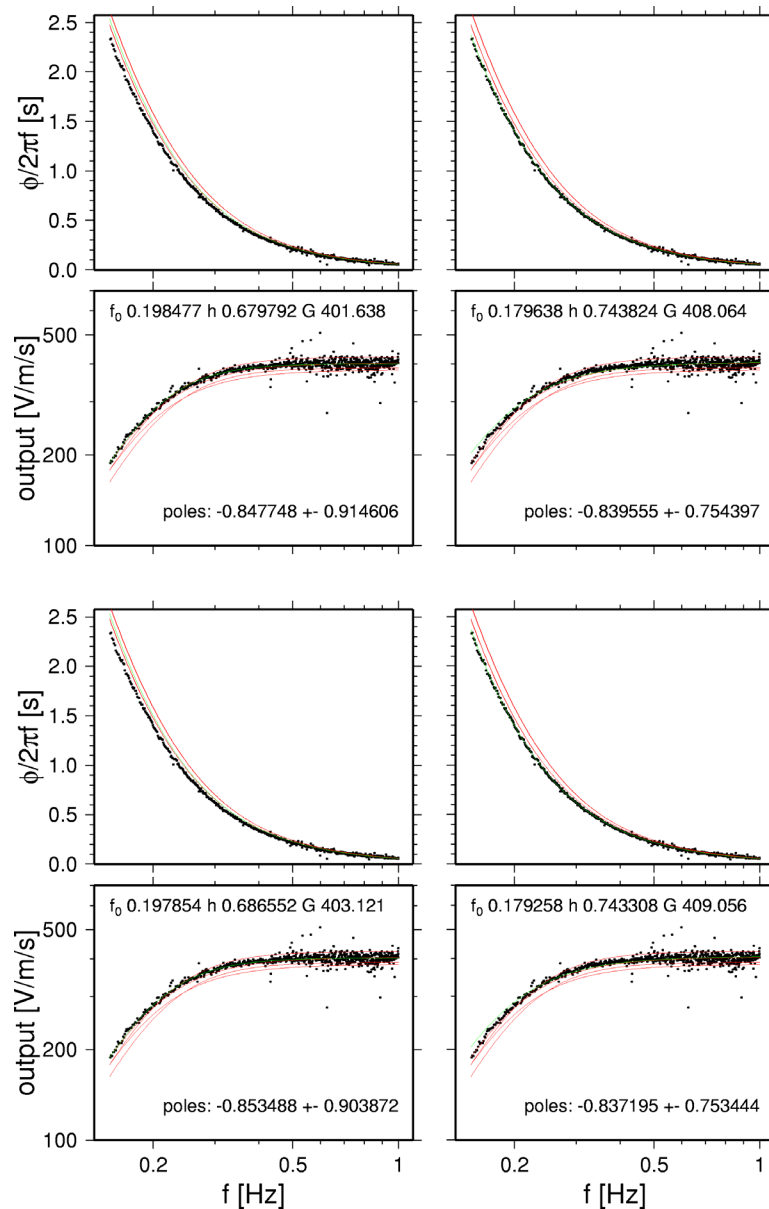
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

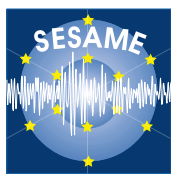
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 58 Transfer function fit for seismometer GP03, east component, hour 2.**



**Project Acronym: SESAME**

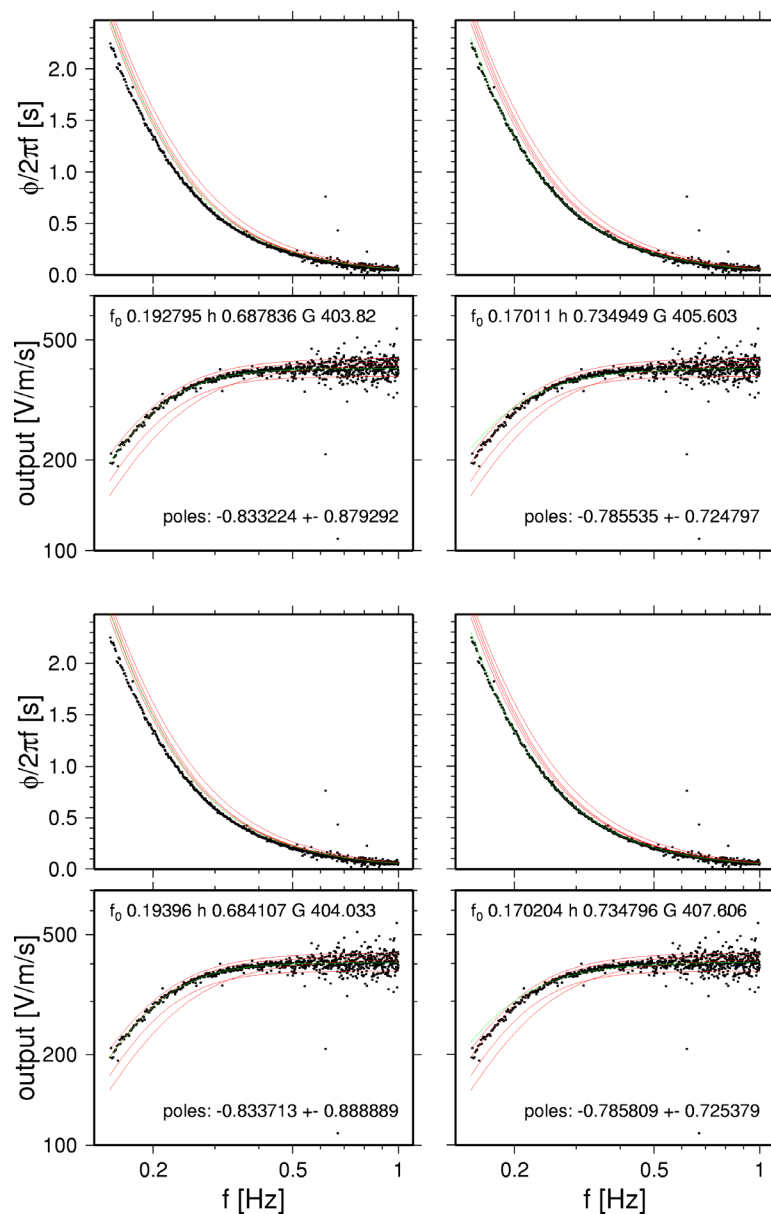
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
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**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 59 Transfer function fit for seismometer GP04, east component, hour 1.**



**Project Acronym: SESAME**

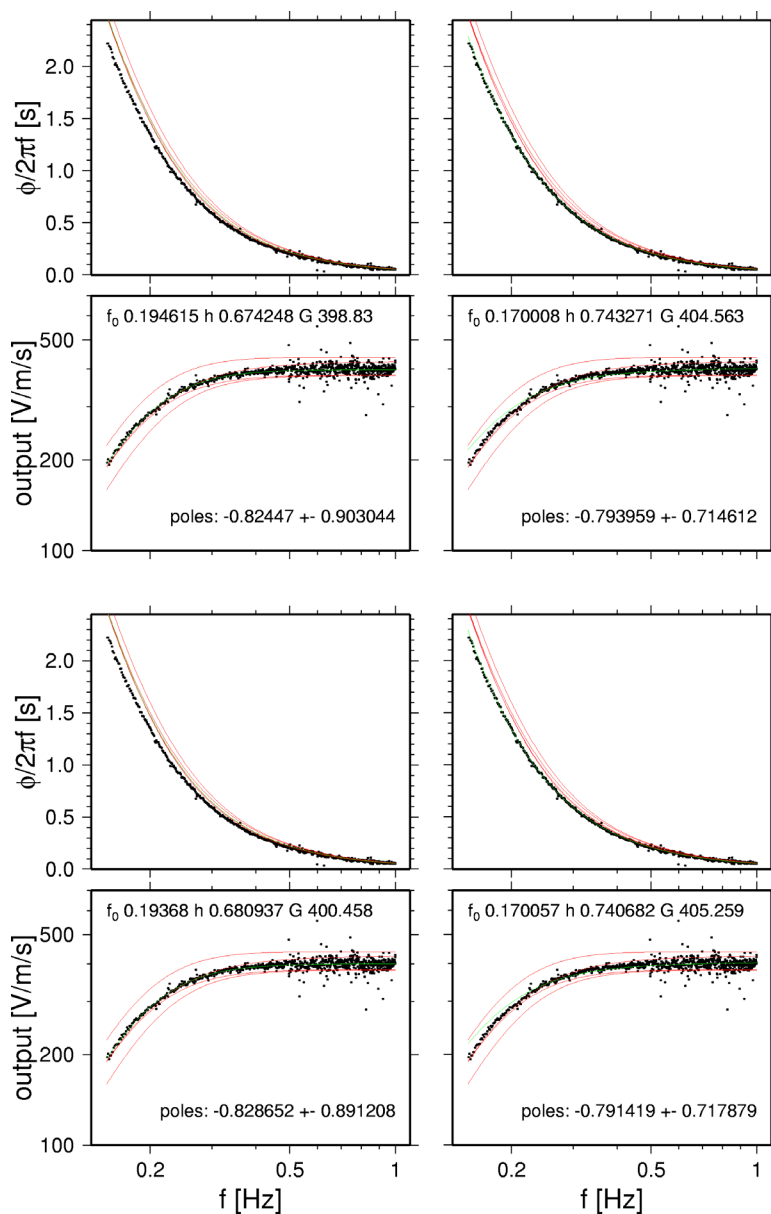
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 60 Transfer function fit for seismometer GP04, east component, hour 2.**



**Project Acronym: SESAME**

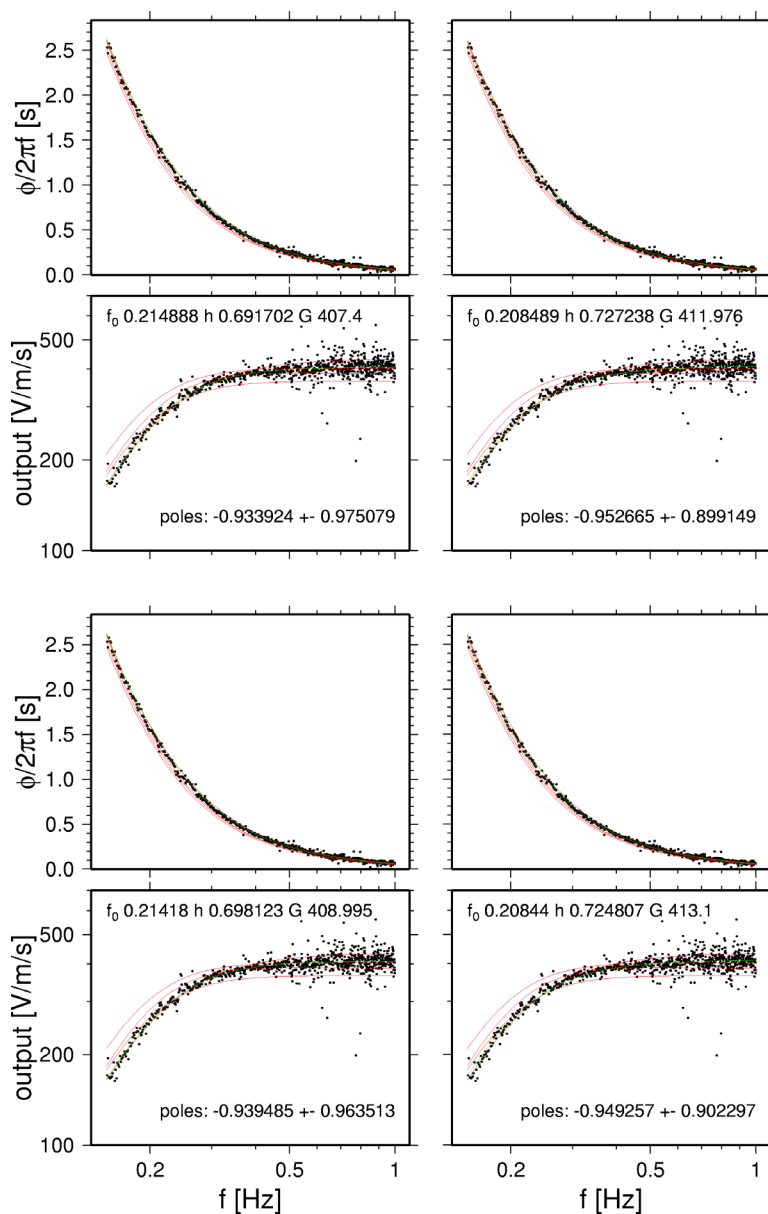
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

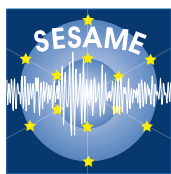
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
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**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 61 Transfer function fit for seismometer GP05, east component, hour 1.**



**Project Acronym: SESAME**

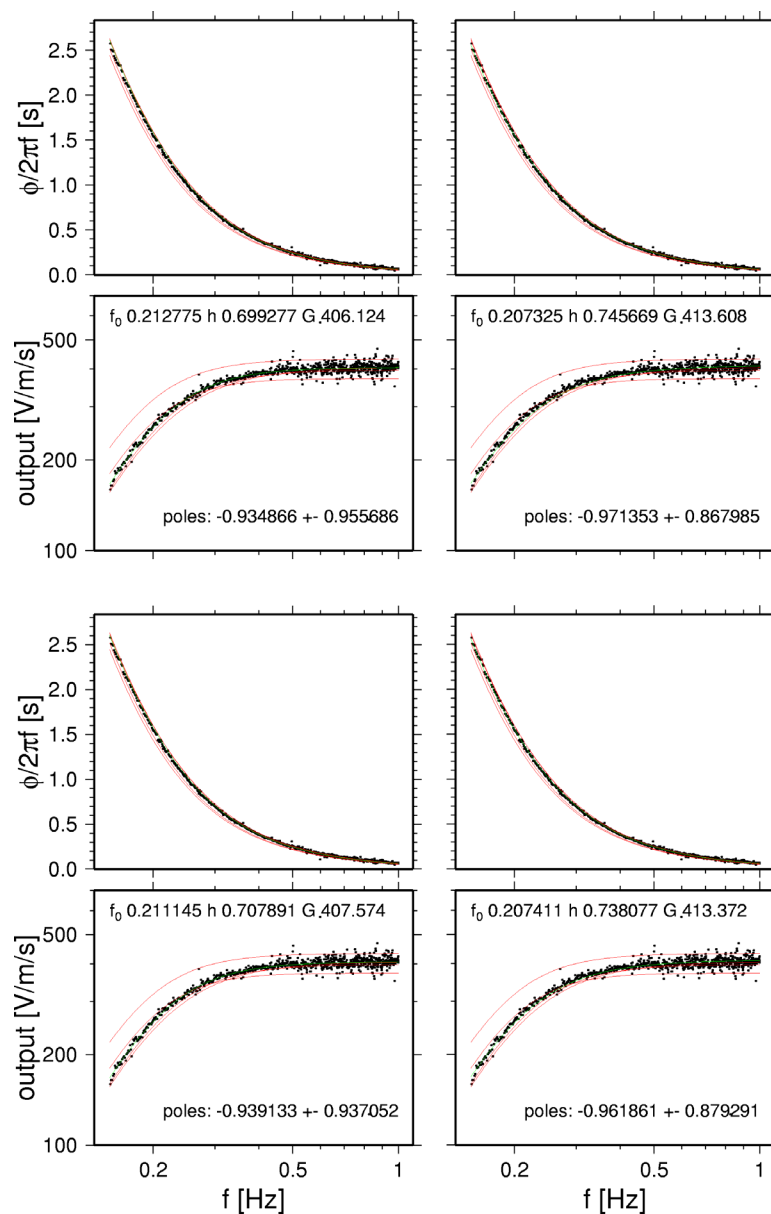
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

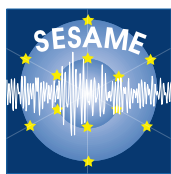
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 62 Transfer function fit for seismometer GP05, east component, hour 2.**



**Project Acronym: SESAME**

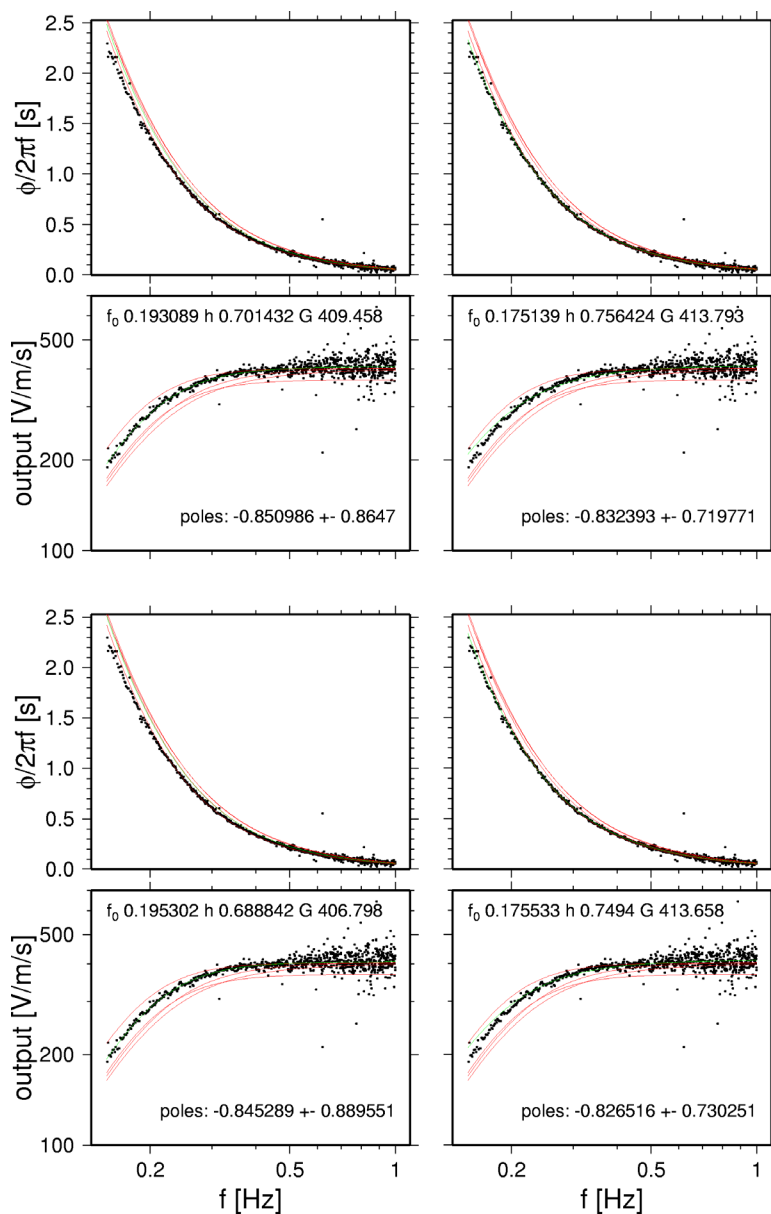
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

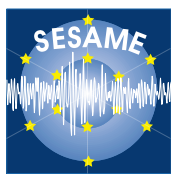
**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 63 Transfer function fit for seismometer GP06, east component, hour 1.**





**Project Acronym: SESAME**

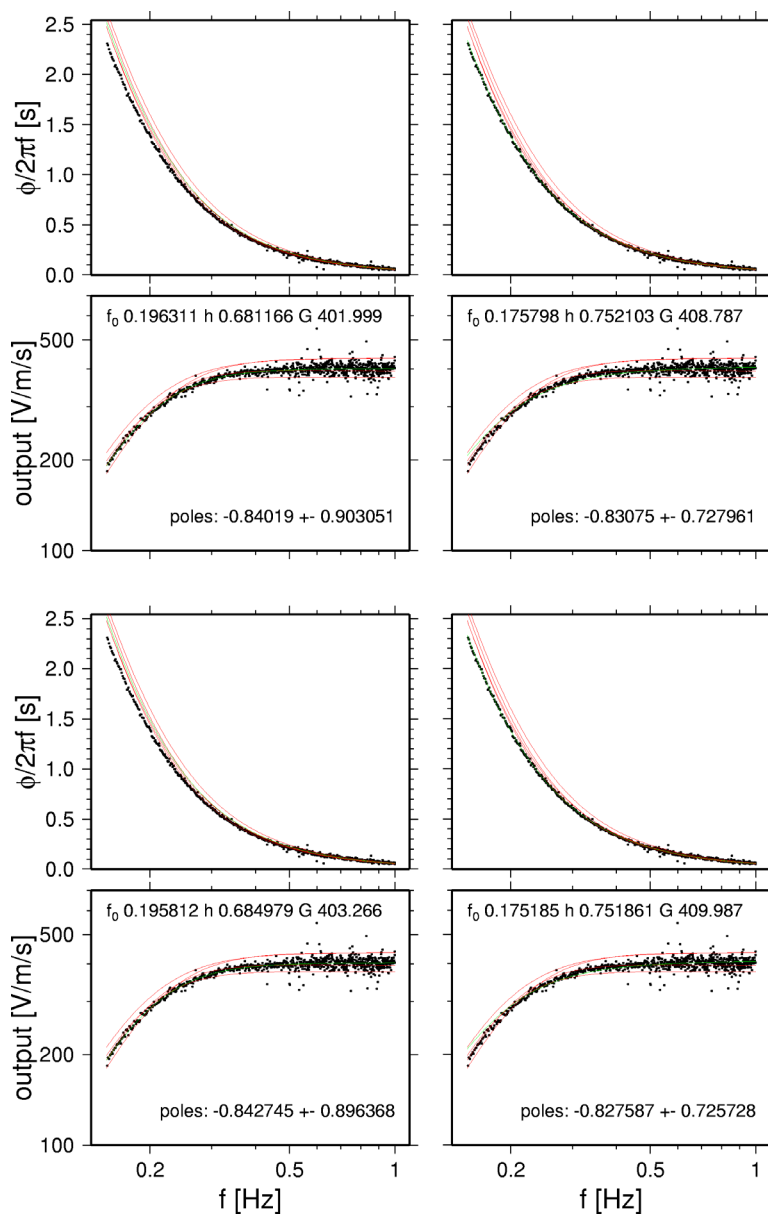
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

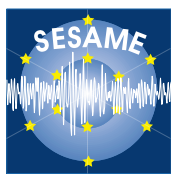
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 64 Transfer function fit for seismometer GP06, east component, hour 2.**



**Project Acronym: SESAME**

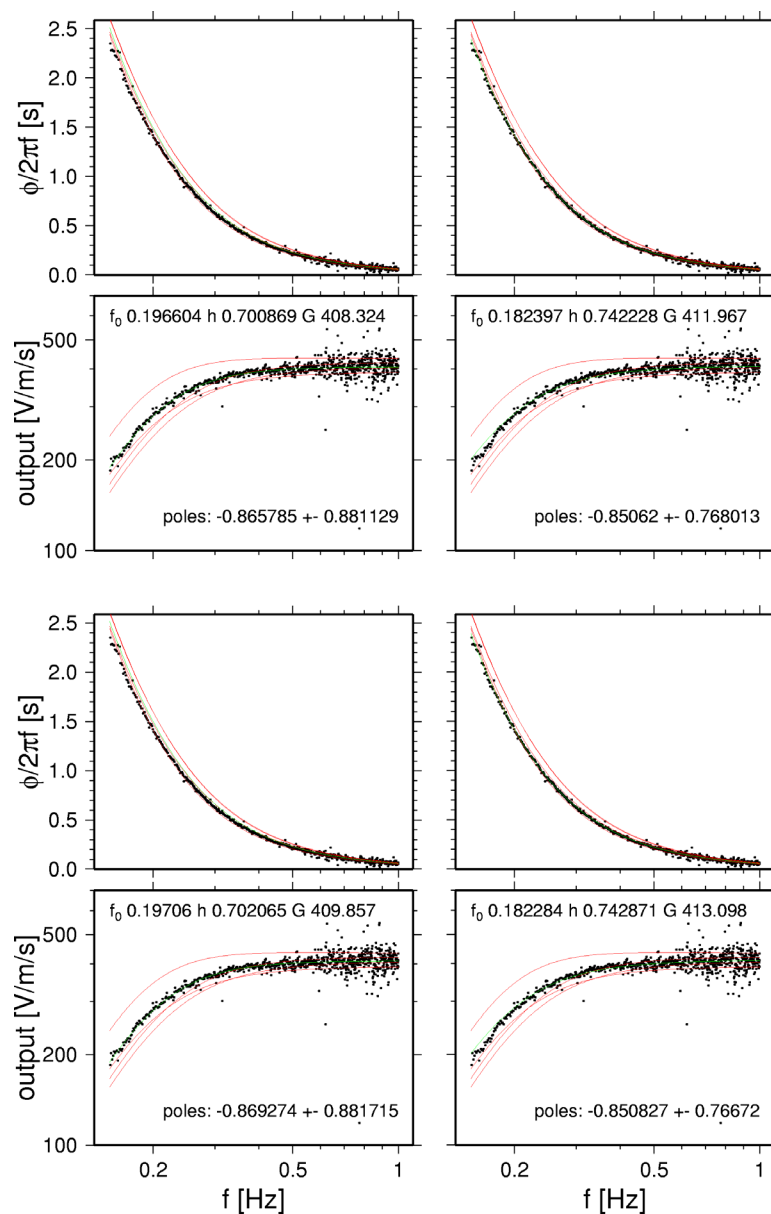
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

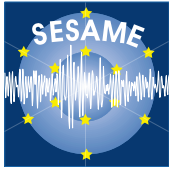
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 65 Transfer function fit for seismometer GP07, east component, hour 1.**



**Project Acronym: SESAME**

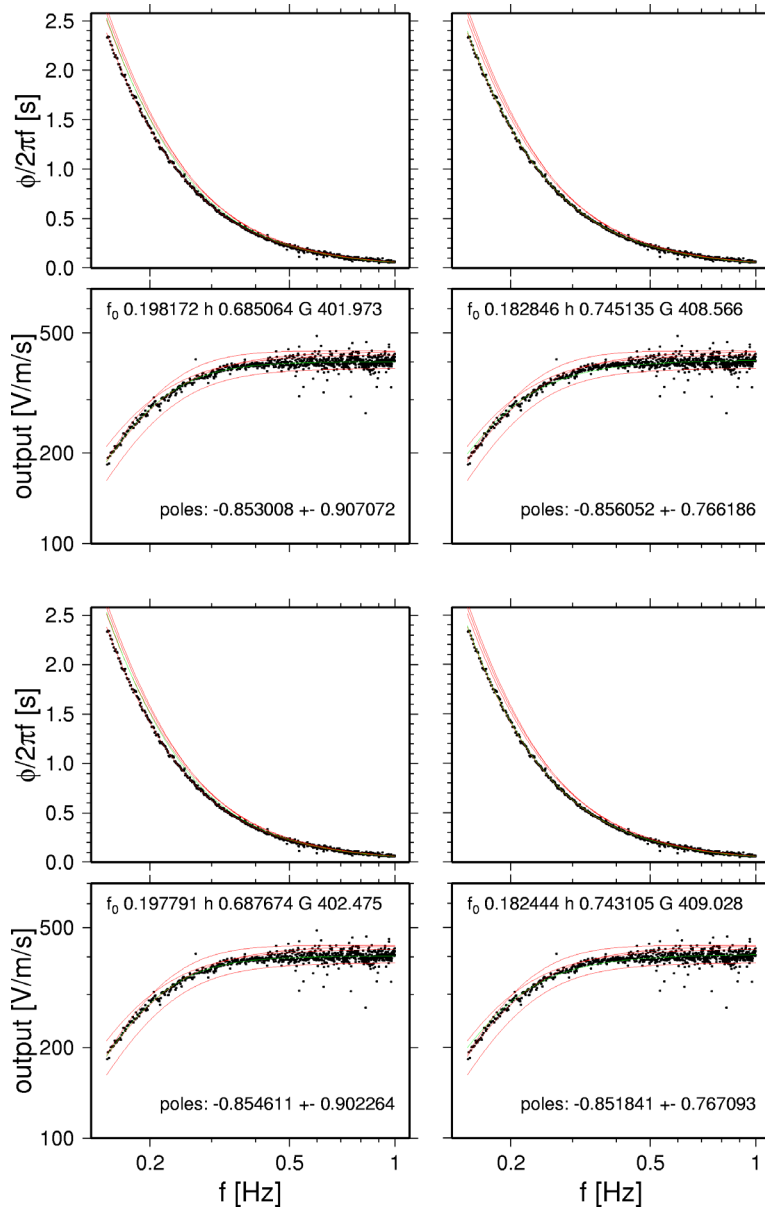
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

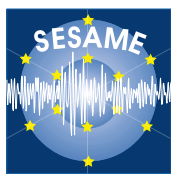
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 66 Transfer function fit for seismometer GP07, east component, hour 2.**



**Project Acronym: SESAME**

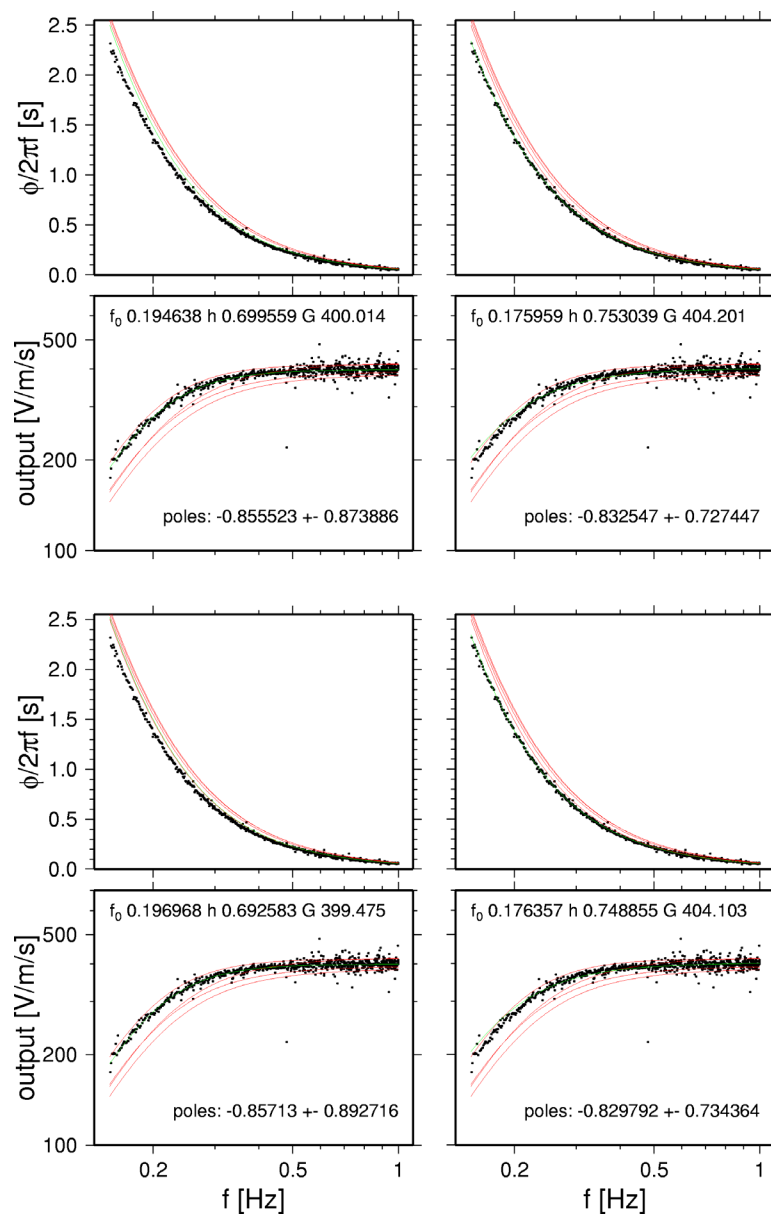
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 67 Transfer function fit for seismometer GP08, east component, hour 1.**



**Project Acronym: SESAME**

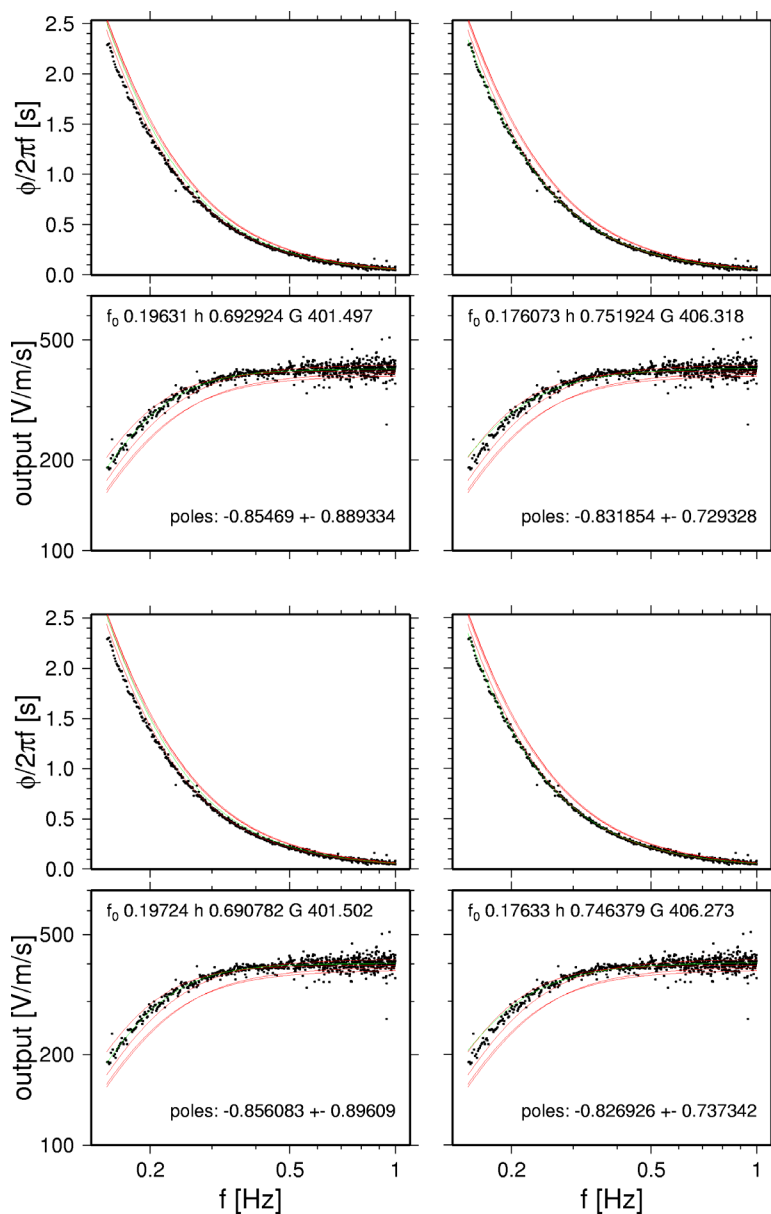
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
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**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 68 Transfer function fit for seismometer GP08, east component, hour 2.**



**Project Acronym: SESAME**

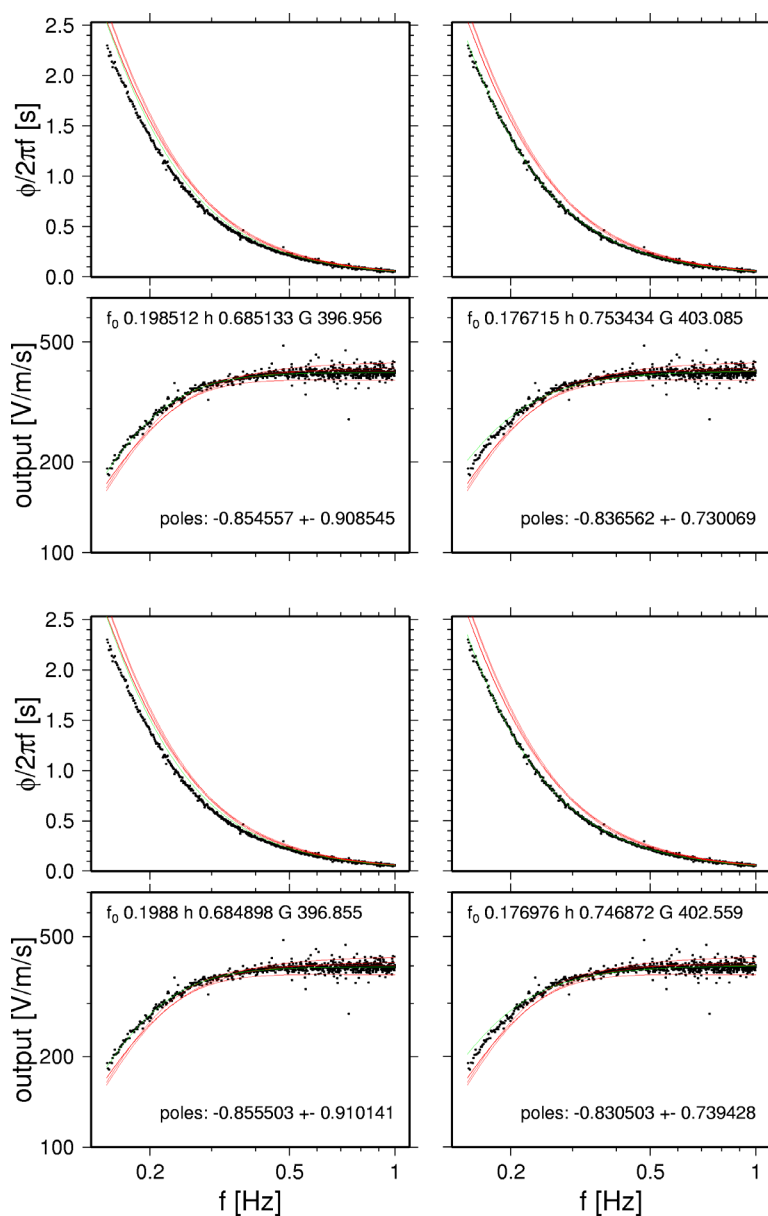
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 69 Transfer function fit for seismometer GP09, east component, hour 1.**



**Project Acronym: SESAME**

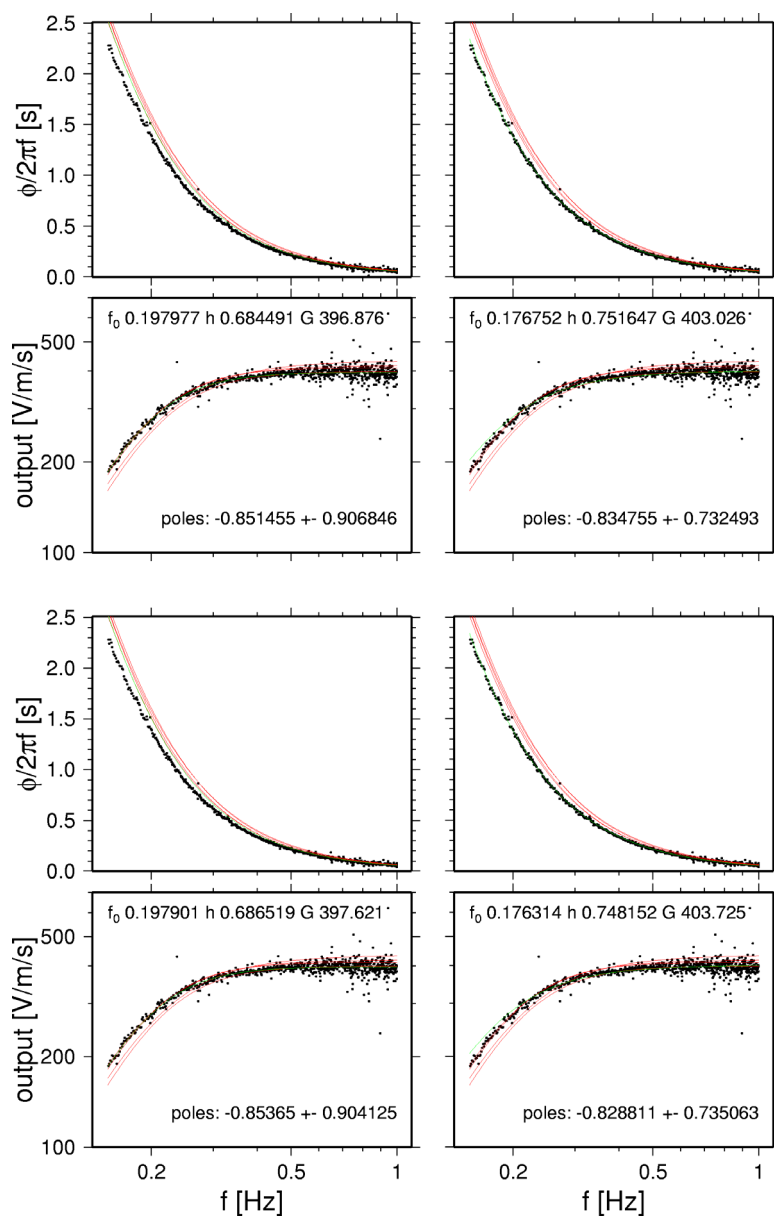
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

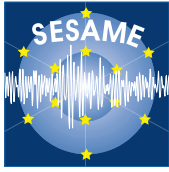
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 70 Transfer function fit for seismometer GP09, east component, hour 2.**



**Project Acronym: SESAME**

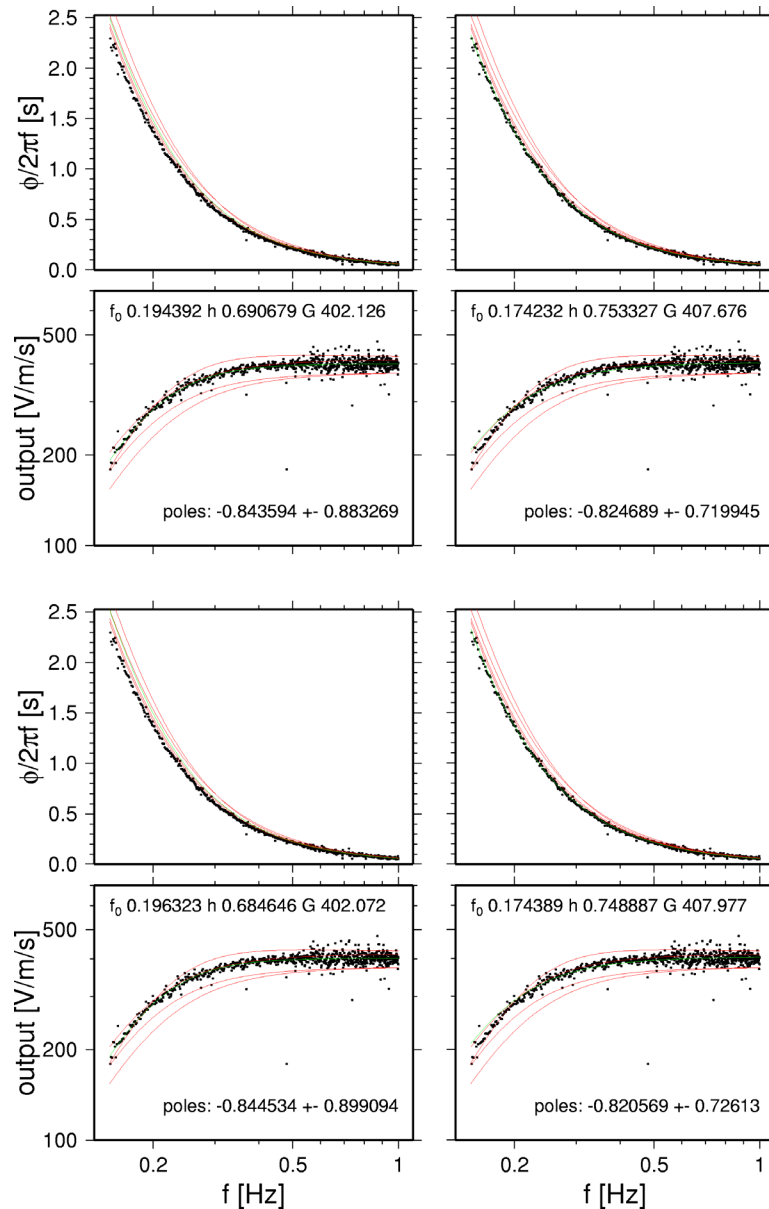
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

**Project No: EVG1-CT-2000-00026 SESAME**

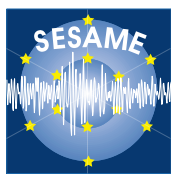
**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 71 Transfer function fit for seismometer GP10, east component, hour 1.**





**Project Acronym: SESAME**

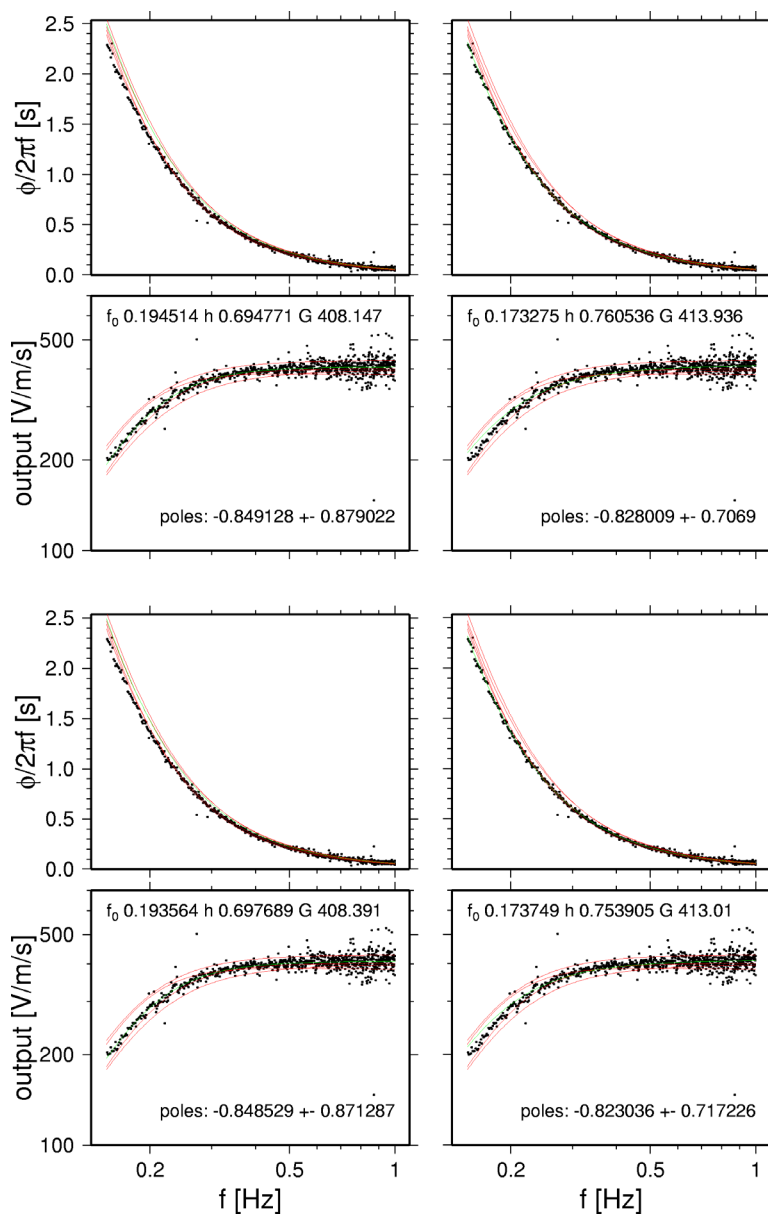
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

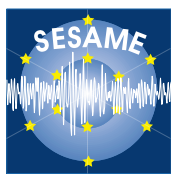
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 72 Transfer function fit for seismometer GP10, east component, hour 2.**



**Project Acronym: SESAME**

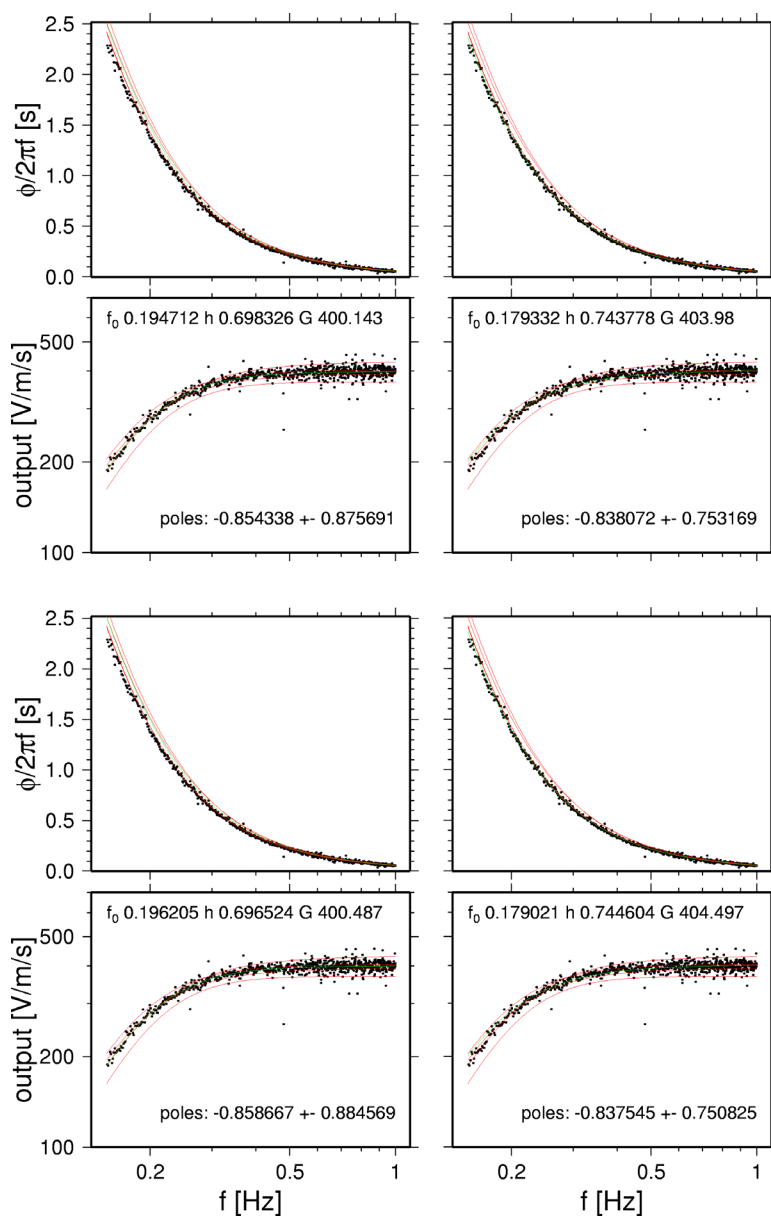
**Project Title:** Site Effects Assessment Using Ambient Excitations

**Supported by:** The European Commission – Research General Directorate

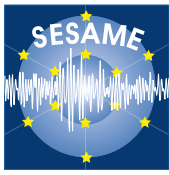
**Project No:** EVG1-CT-2000-00026 SESAME

**Report title:** Optimum deployment strategy for array measurements,  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.:** D07.05



**D07.05 - Appendix 2 - Figure 73 Transfer function fit for seismometer GP11, east component, hour 1.**



**Project Acronym: SESAME**

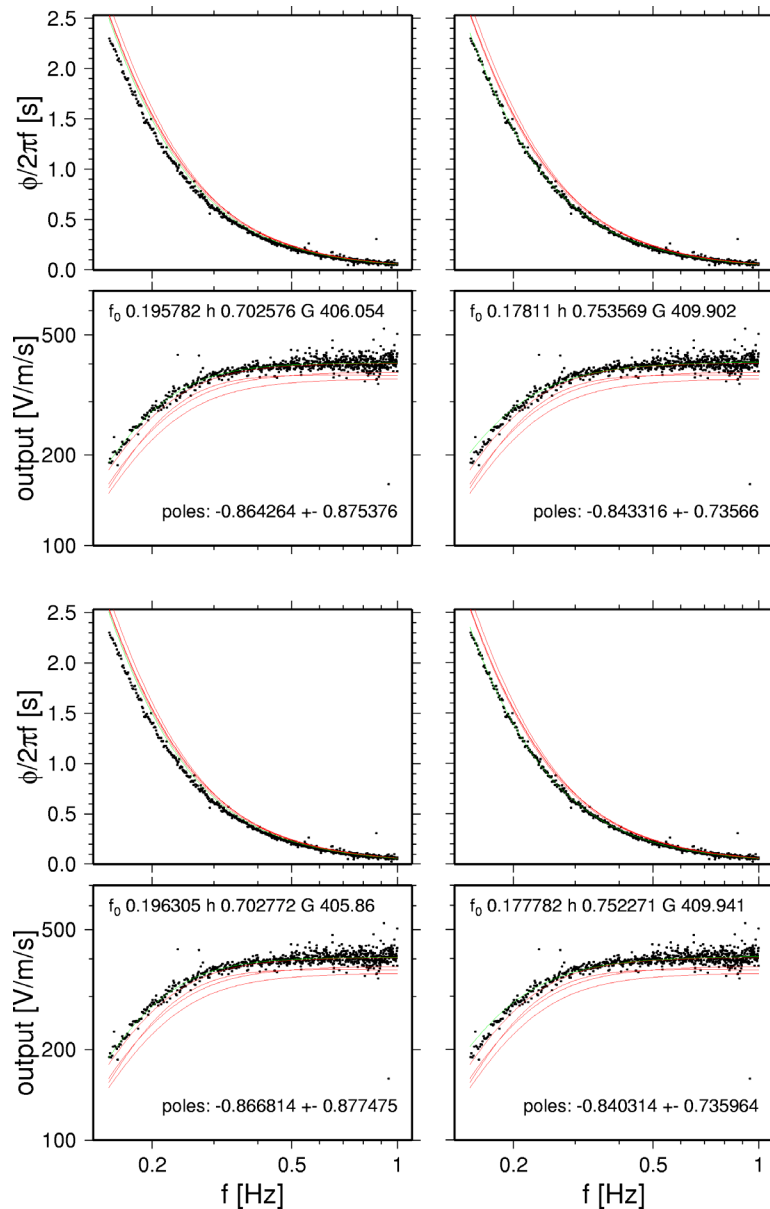
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

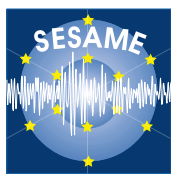
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 74 Transfer function fit for seismometer GP11, east component, hour 2.**



**Project Acronym: SESAME**

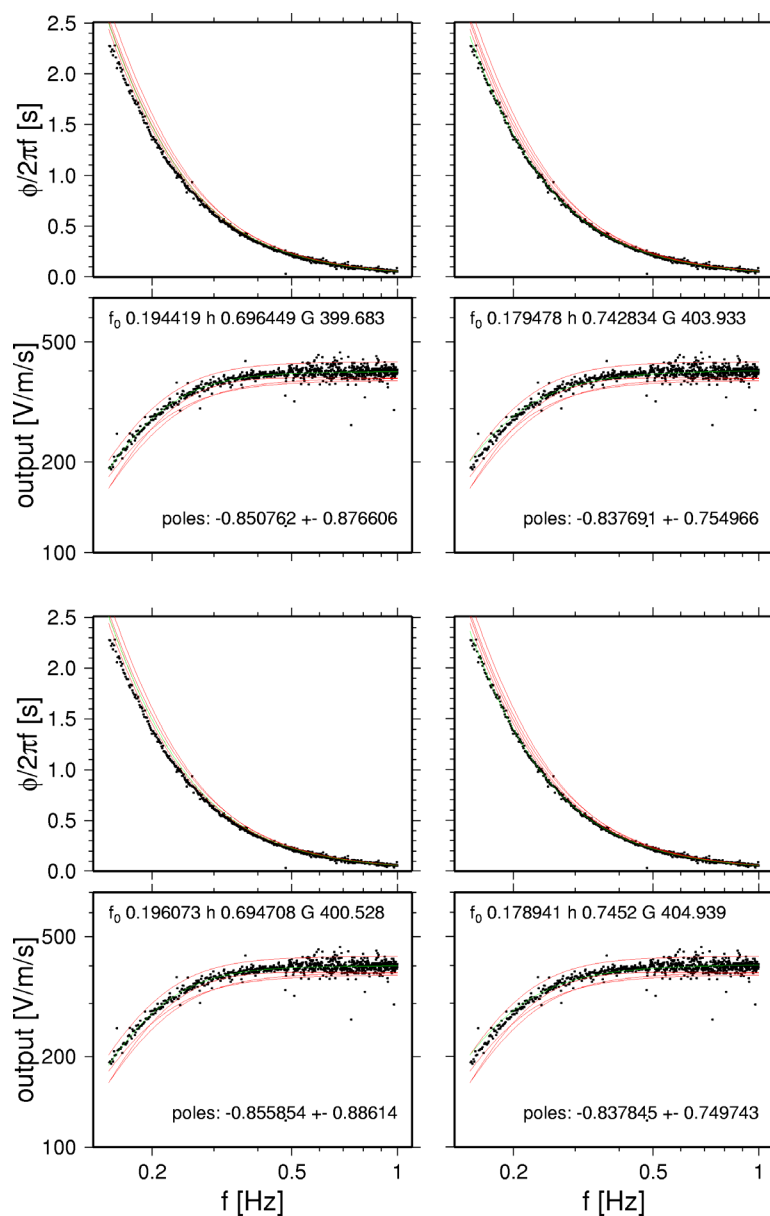
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

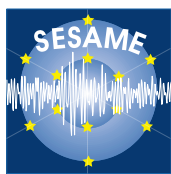
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 75 Transfer function fit for seismometer GP12, east component, hour 1.**



**Project Acronym: SESAME**

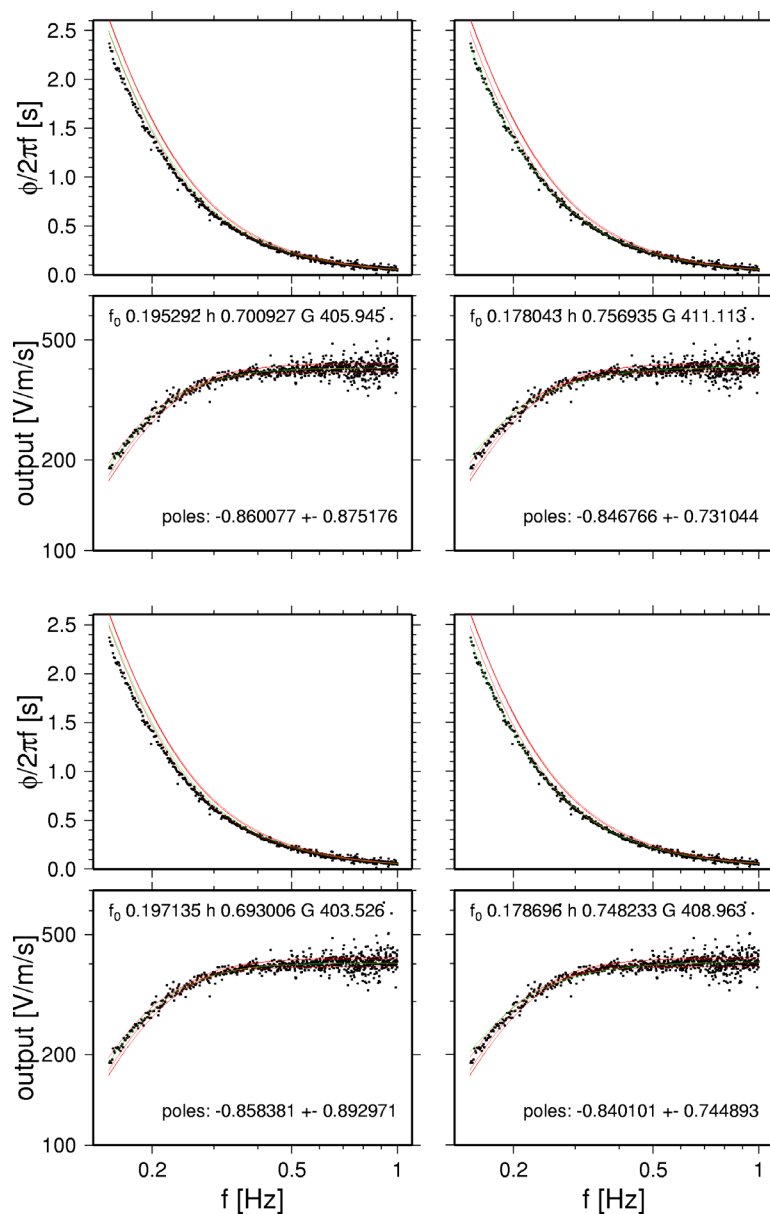
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

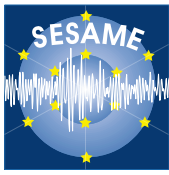
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 76 Transfer function fit for seismometer GP12, east component, hour 2.**



**Project Acronym: SESAME**

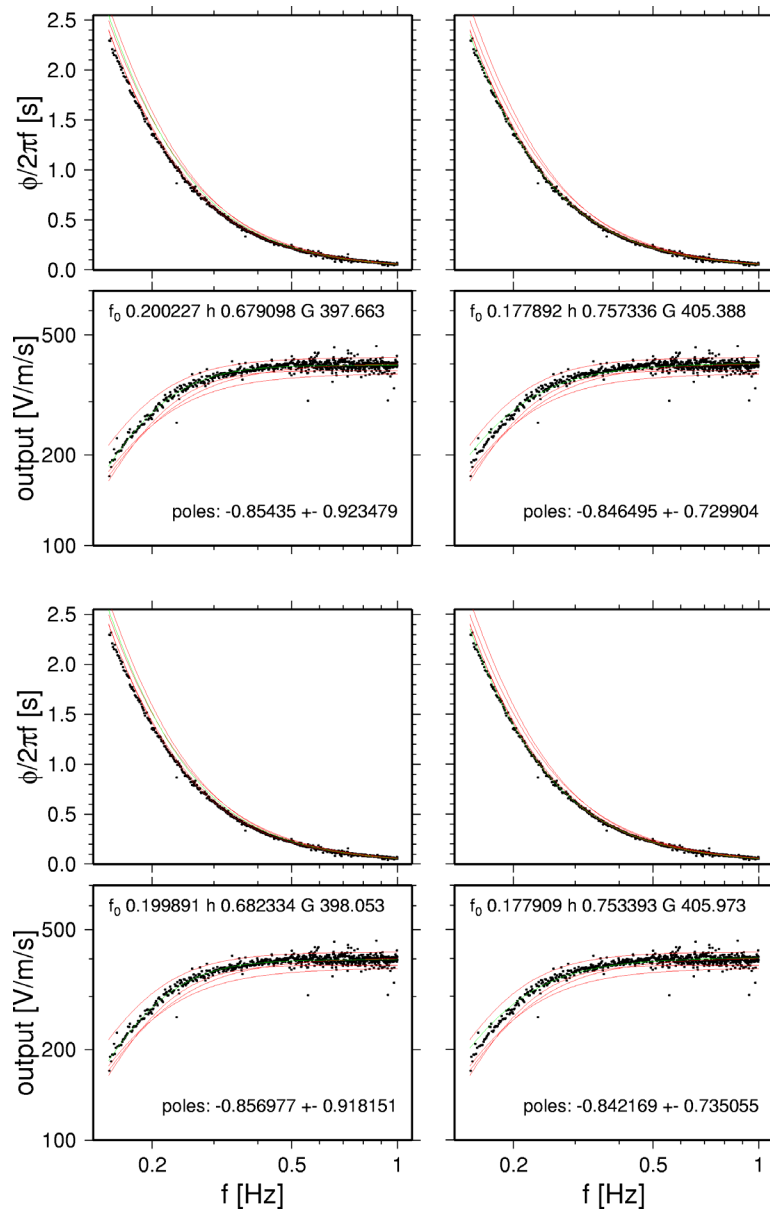
**Project Title: Site Effects Assessment Using Ambient Excitations**

**Supported by: The European Commission – Research General Directorate**

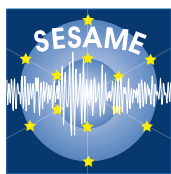
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 77 Transfer function fit for seismometer GP13, east component, hour 1.**



**Project Acronym: SESAME**

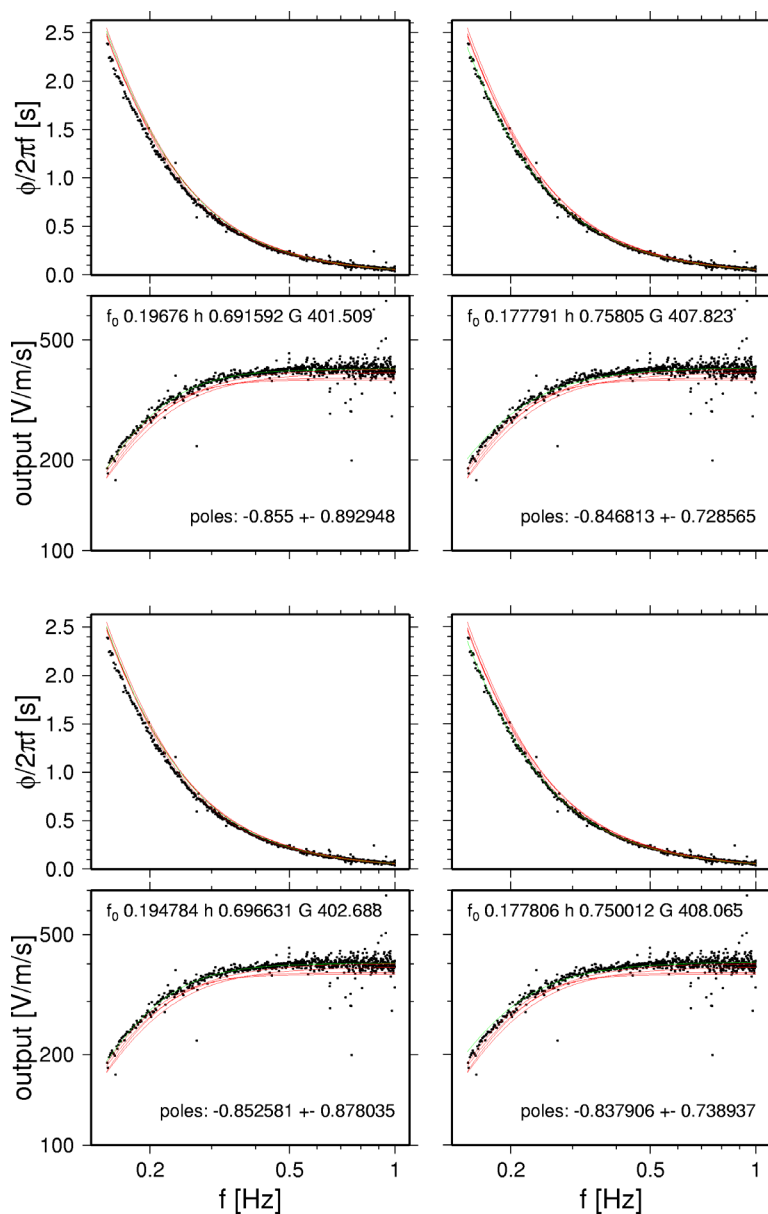
**Project Title: Site Effects Assessment Using Ambient Excitations**

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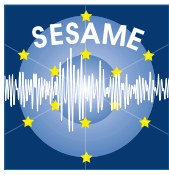
**Project No: EVG1-CT-2000-00026 SESAME**

**Report title: Optimum deployment strategy for array measurements,**  
University of Potsdam, Germany,  
WP05: Instrumental layout for array measurements

**Deliverable No.: D07.05**



**D07.05 - Appendix 2 - Figure 78 Transfer function fit for seismometer GP13, east component, hour 2.**



**Project Acronym: SESAME**

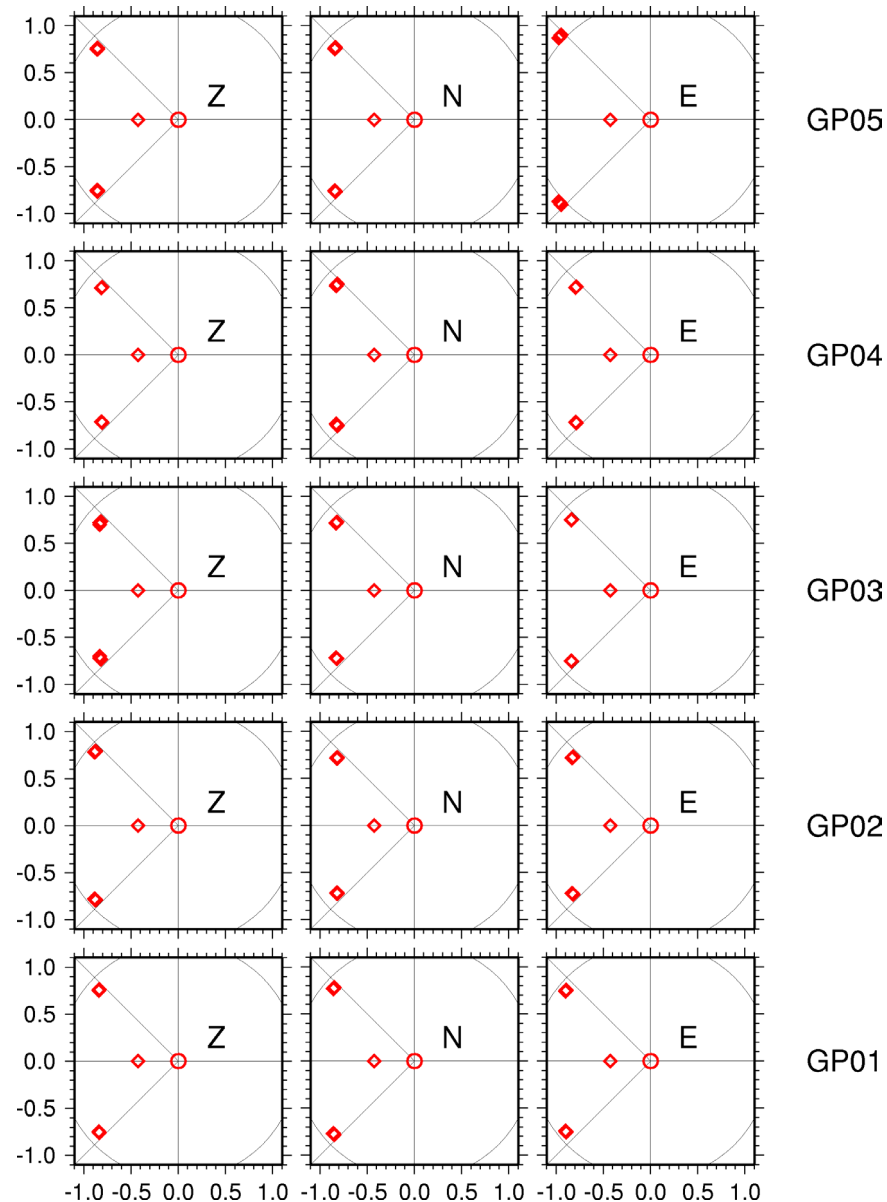
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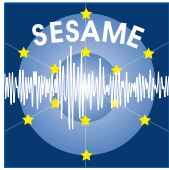
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**D07.05 - Appendix 2 - Figure 79 Scatter plot of complex pole position fit results for seismometers GP01 to GP05, all components. Red diamonds show the all pole positions of the corresponding transfer function. The pole connected to the 1<sup>st</sup> order high-pass filter at 0.068 Hz has been fixed to its theoretical position. The red circle indicates the triple zero at the origin of the complex plane. The intersection points of the black circle and the thin black lines give the position of the conjugate complex pole pair according to the manufacturer's specification.**





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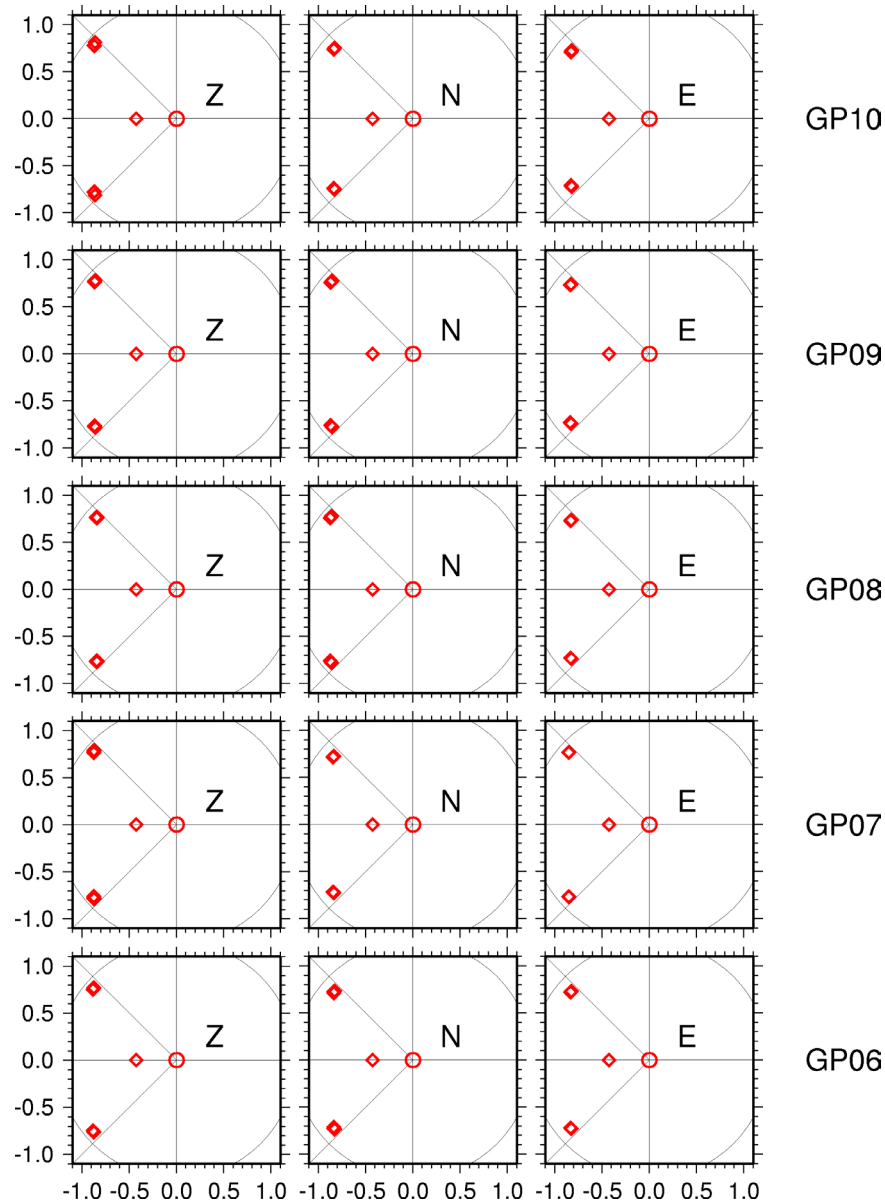
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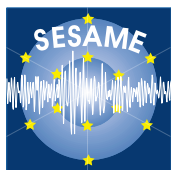
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**D07.05 - Appendix 2 - Figure 80** Scatter plot of complex pole position fit results for seismometers GP06 to GP10, all components. Red diamonds show the all pole positions of the corresponding transfer function. The pole connected to the 1st order high-pass filter at 0.068 Hz has been fixed to its theoretical position. The red circle indicates the triple zero at the origin of the complex plane. The intersection points of the black circle and the thin black lines give the position of the conjugate complex pole pair according to the manufacturer's specification.



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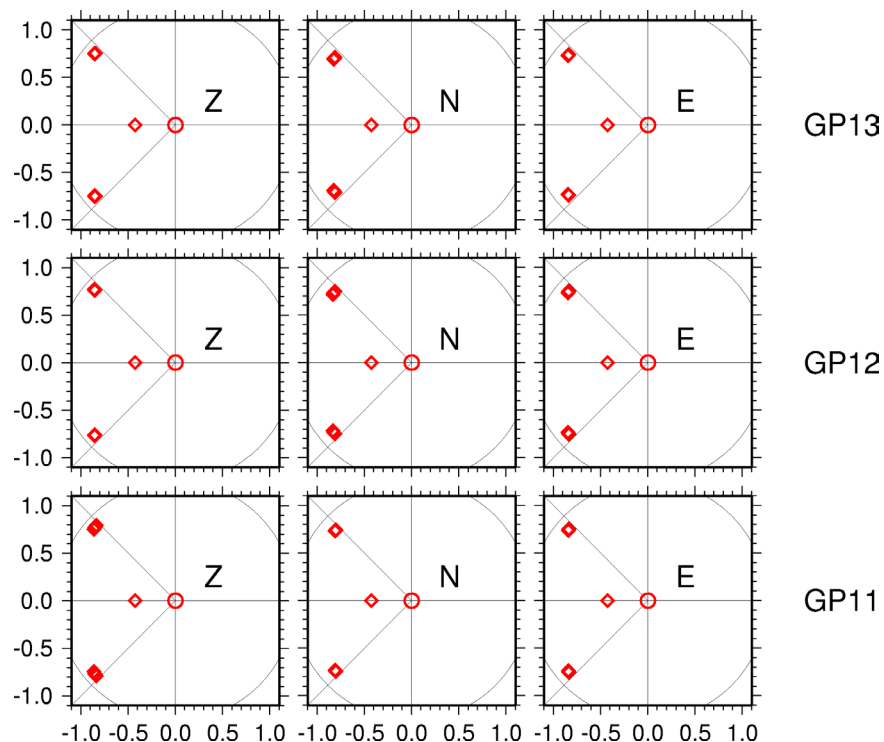
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**D07.05 - Appendix 2 - Figure 81** Scatter plot of complex pole position fit results for seismometers GP11 to GP13, all components. Red diamonds show the all pole positions of the corresponding transfer function. The pole connected to the 1st order high-pass filter at 0.068 Hz has been fixed to its theoretical position. The red circle indicates the triple zero at the origin of the complex plane. The intersection points of the black circle and the thin black lines give the position of the conjugate complex pole pair according to the manufacturer's specification.