



UNITED NATIONS  
UNIVERSITY

GEOHERMAL TRAINING PROGRAMME  
Orkustofnun, Grensasvegur 9,  
IS-108 Reykjavik, Iceland

Reports 2011  
Number 9

APPENDICES TO THE REPORT:  
**JOINT 1D INVERSION OF TEM AND MT RESISTIVITY DATA WITH  
AN EXAMPLE FROM THE AREA AROUND THE  
EYJAFJALLAJÖKULL GLACIER, S-ICELAND**

by

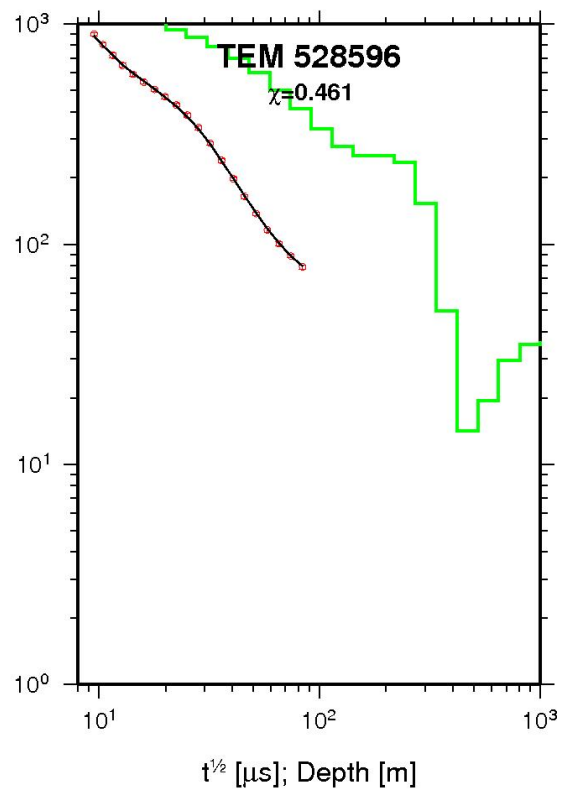
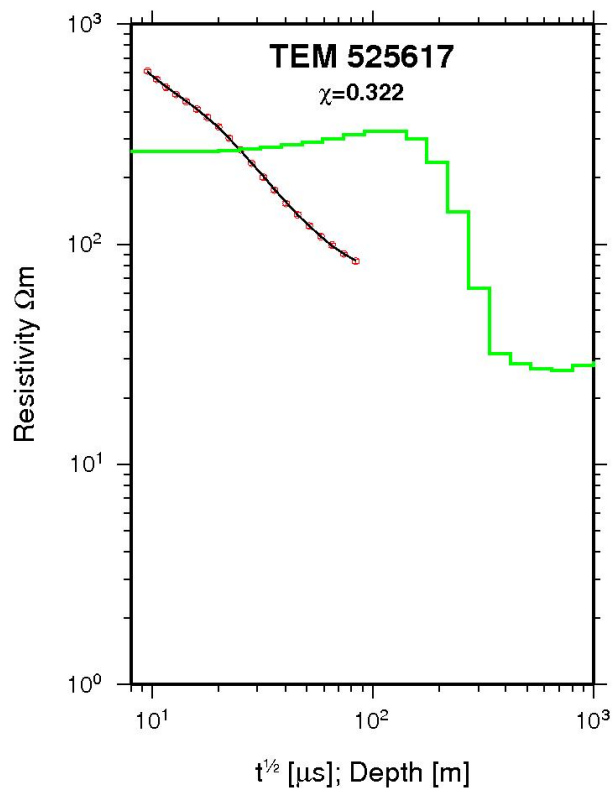
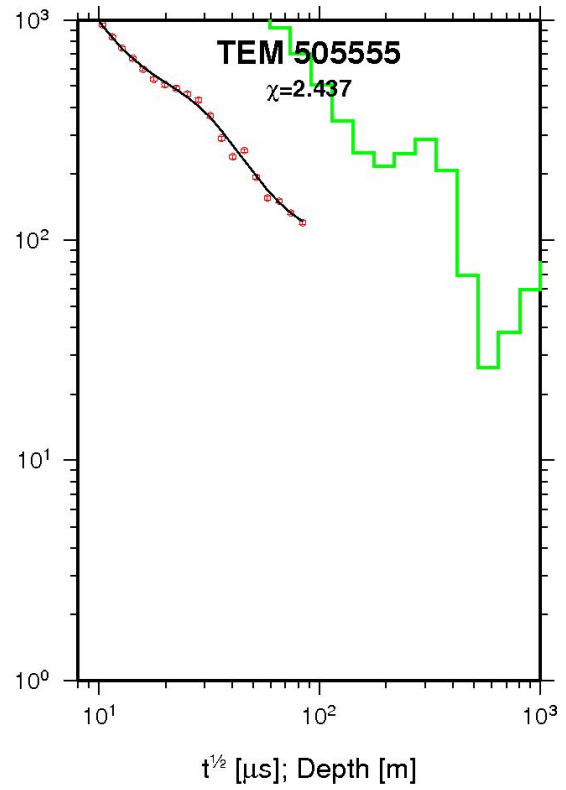
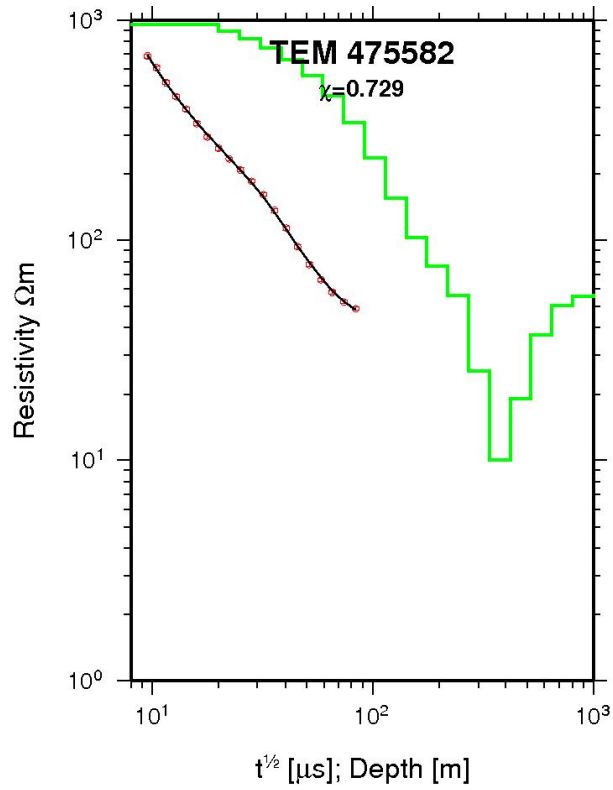
**Alae-Eddine Barkaoui**

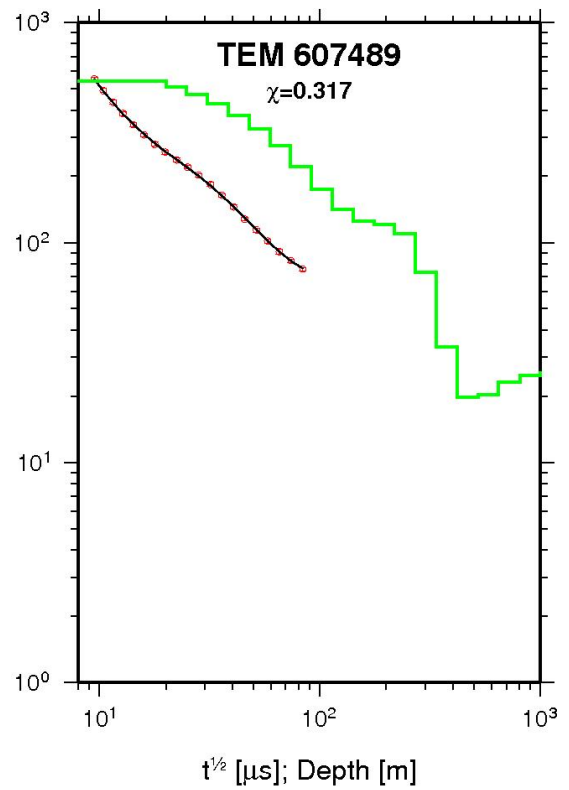
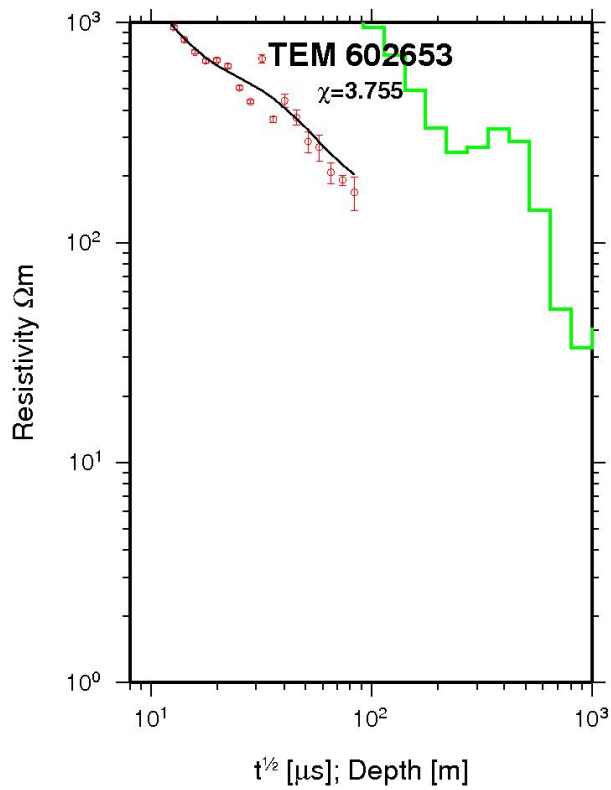
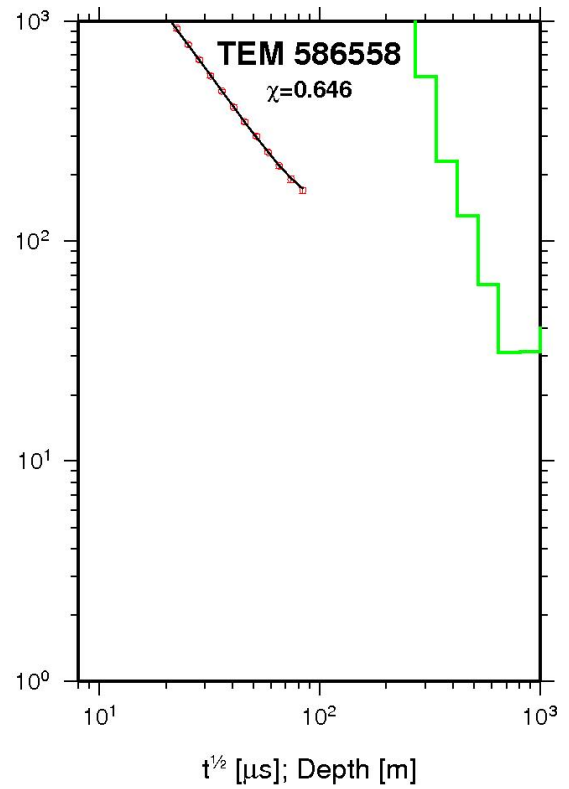
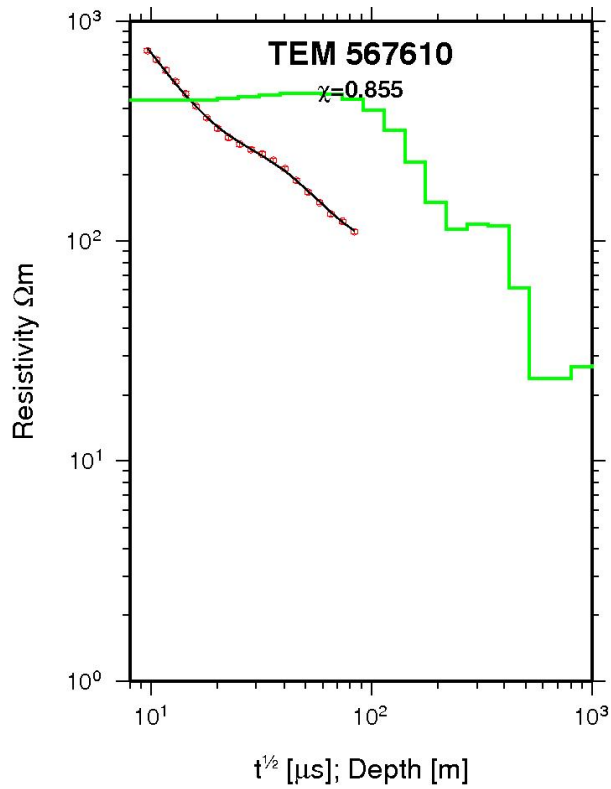
Laboratory of Mineral Deposit, Hydrogeology & Environment  
University Mohamed I<sup>st</sup>  
Oujda  
Morocco  
*barkalae@yahoo.fr*

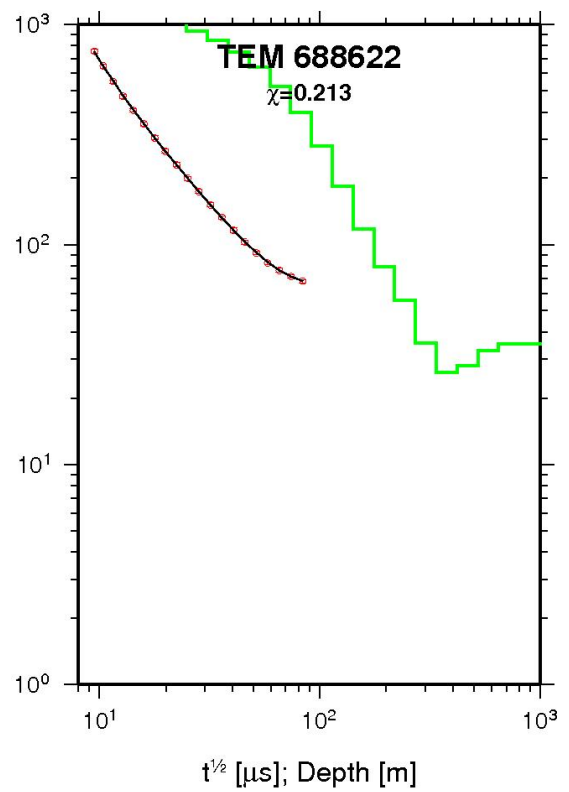
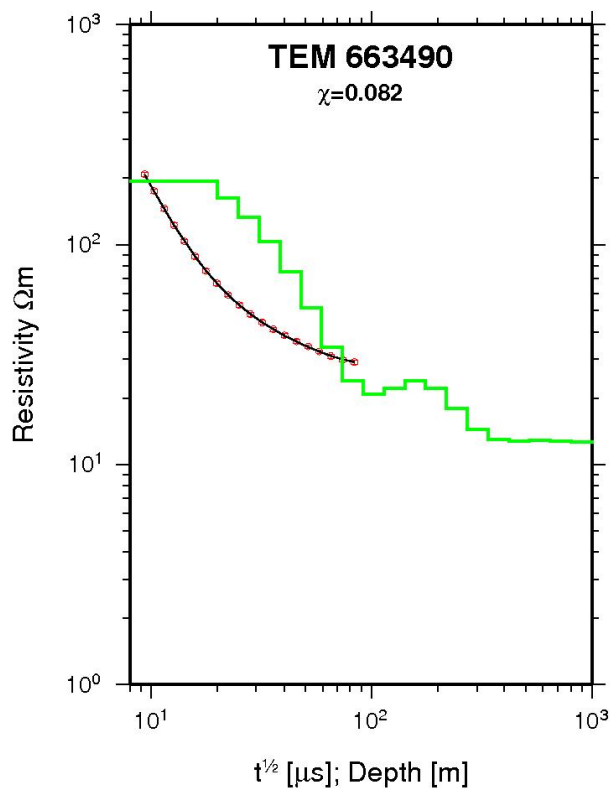
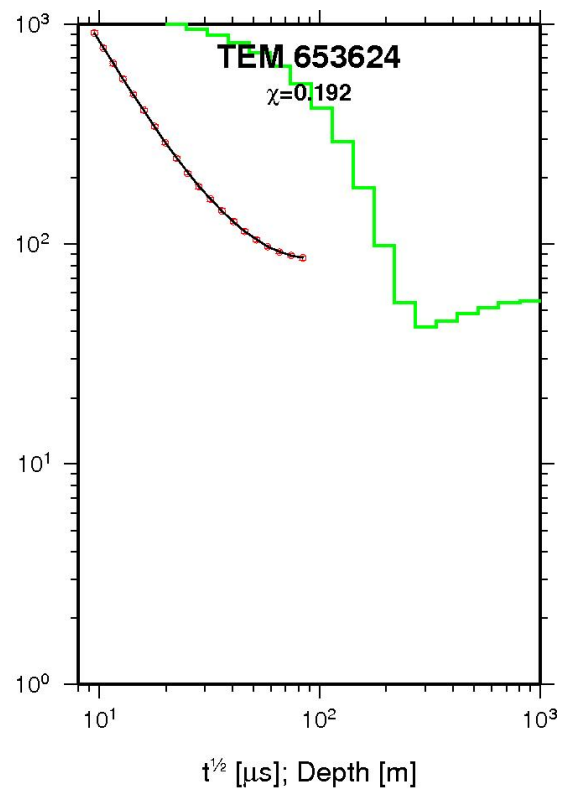
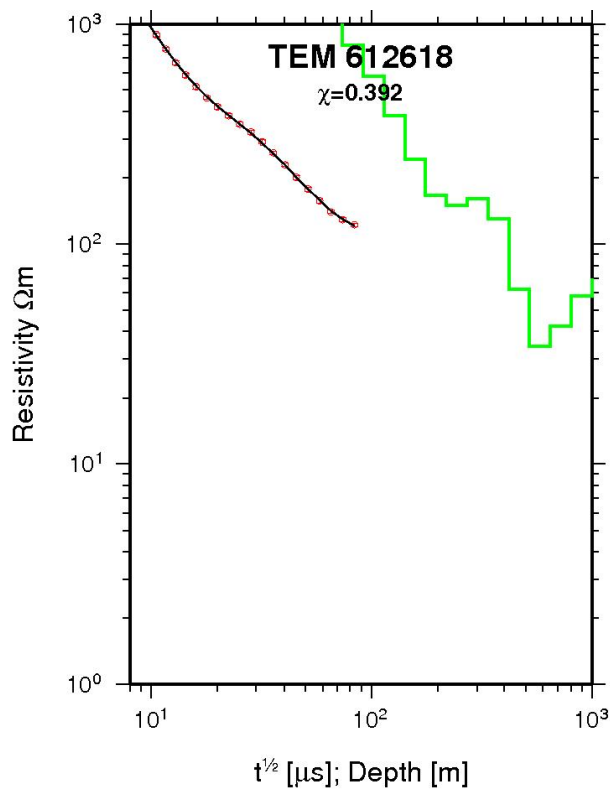
United Nations University  
Geothermal Training Programme  
Reykjavík, Iceland  
Published in 2011

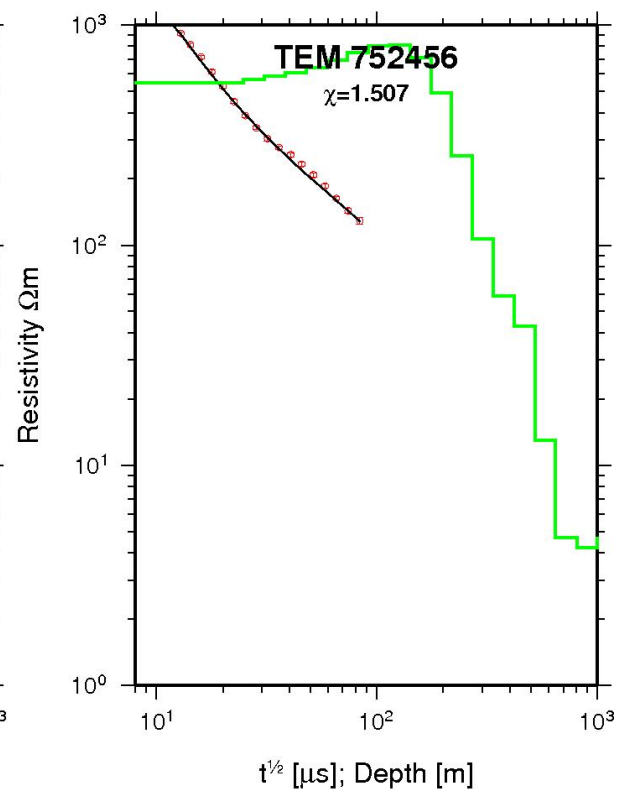
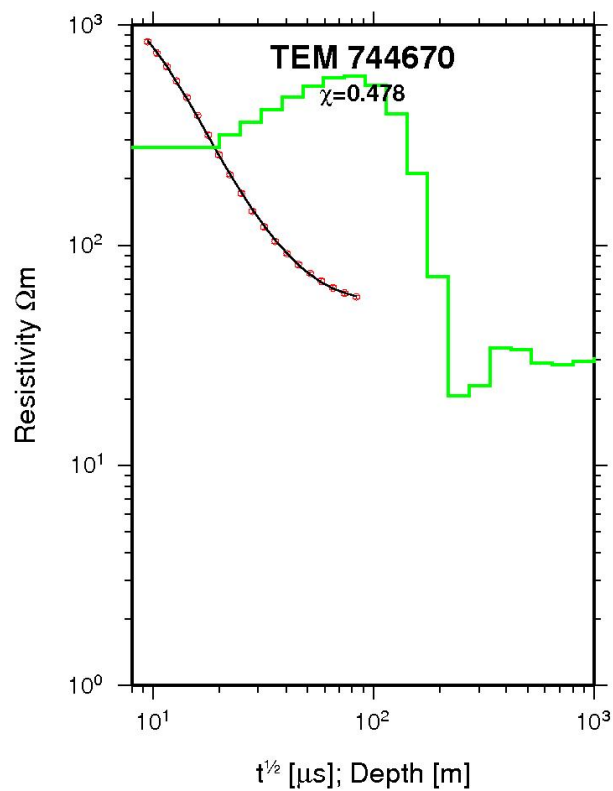
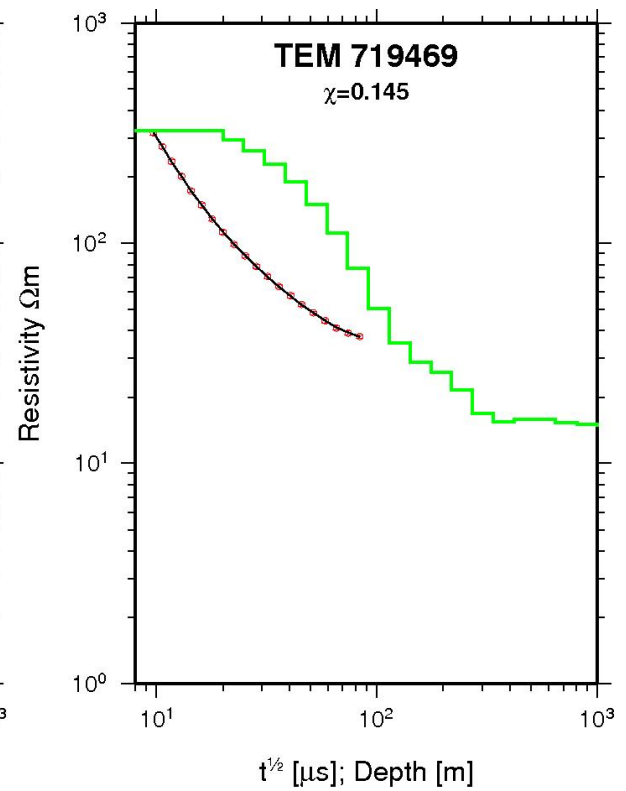
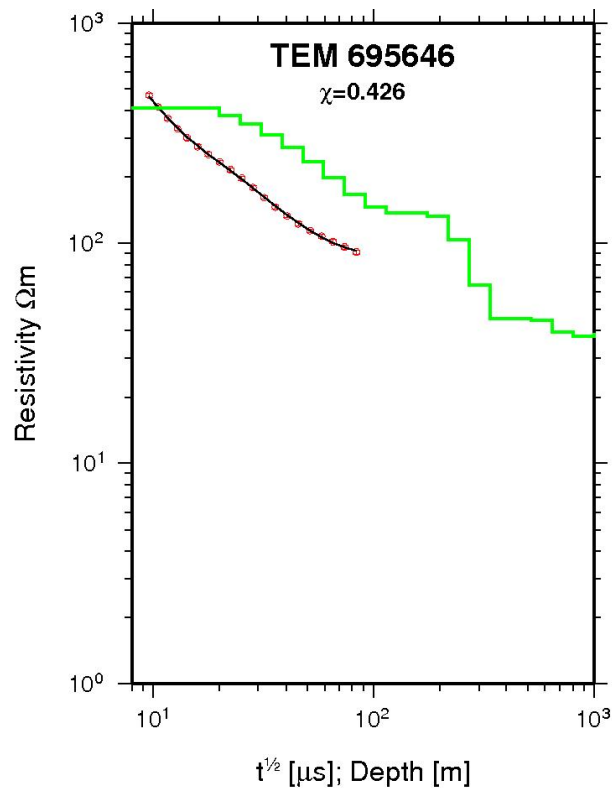
These are appendices to the report “Joint 1D inversion of TEM and MT resistivity data with an example from the area around the Eyjafjallajökull glacier, S-Iceland” by Alae-Eddine Barkaoui at the UNU Geothermal Training Programme in 2011. Appendix I shows the TEM profiles from the Eyjafjallajökull glacier and Occam inversion of the resistivity data. Appendix II shows MT data processed and Appendix III show the TEM and MT resistivity data from the Eyjafjallajökull glacier and 1-D joint inversion of the MT and TEM profiles and the corresponding model curves.

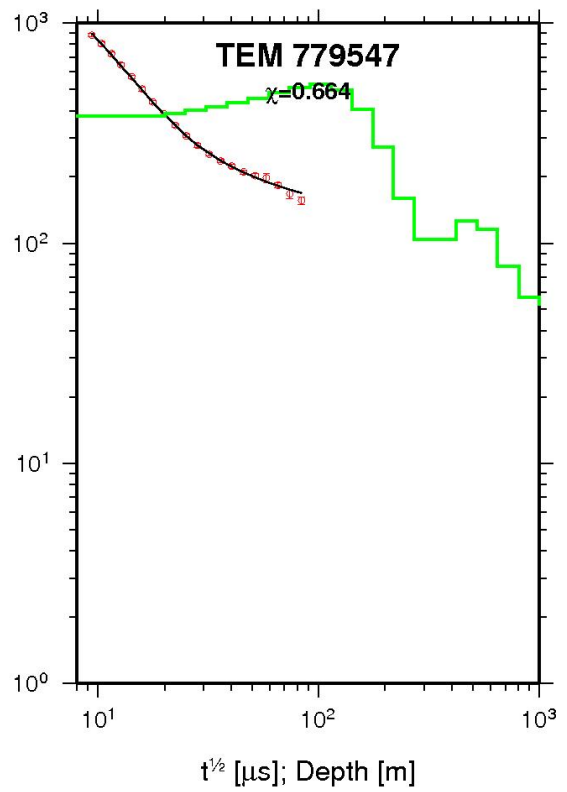
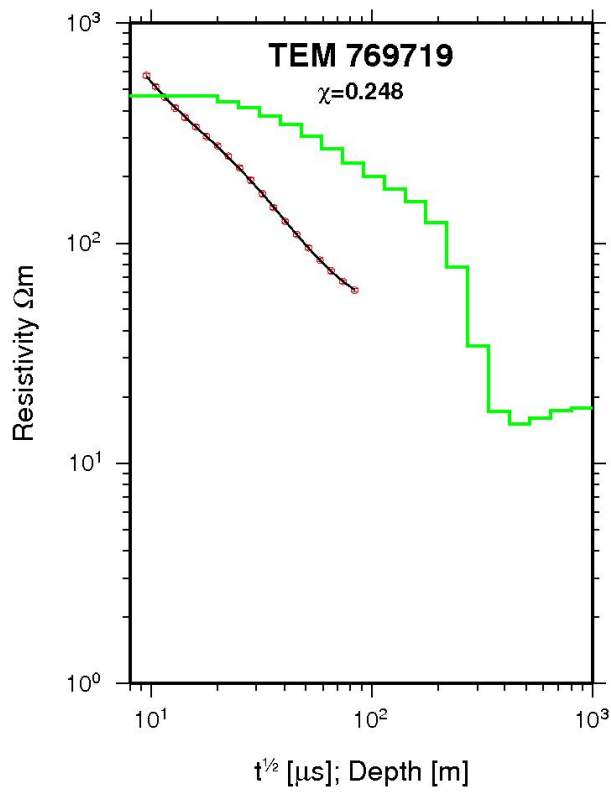
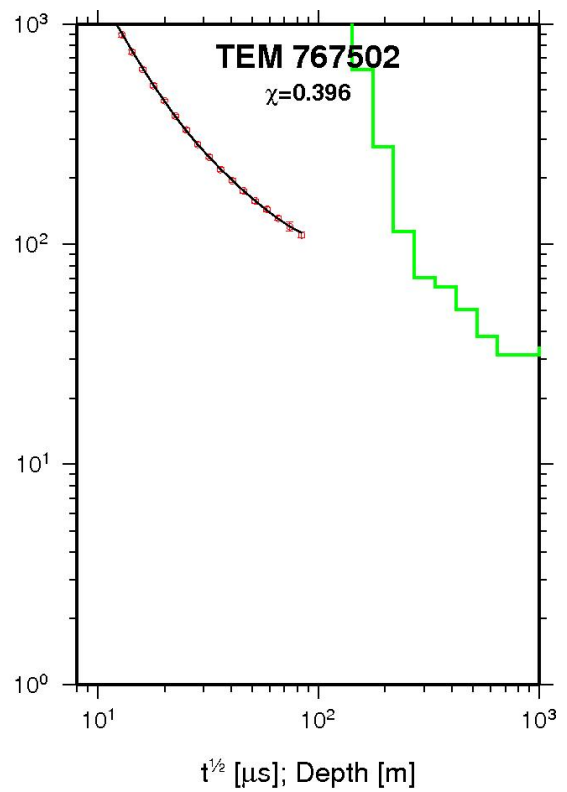
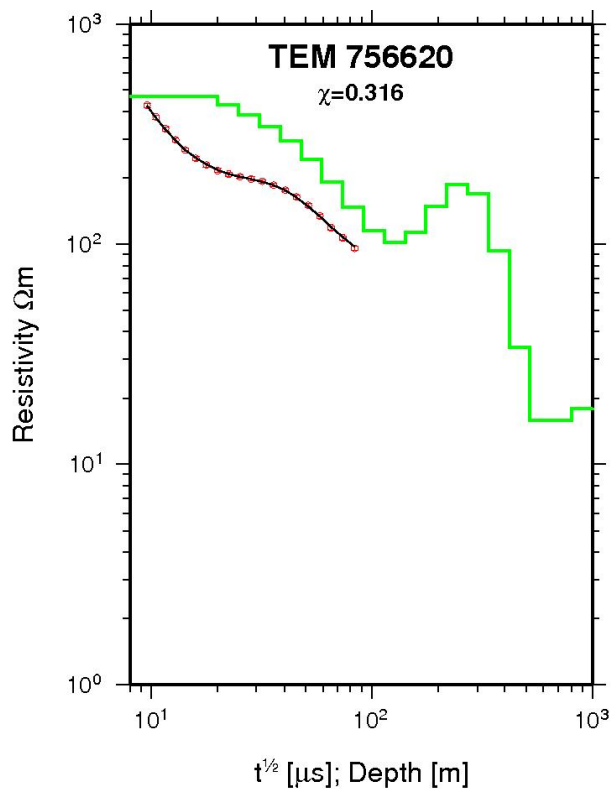
**APPENDIX I: TEM profiles around Eyjafjallajökull glacier and Occam inversion of the resistivity data**

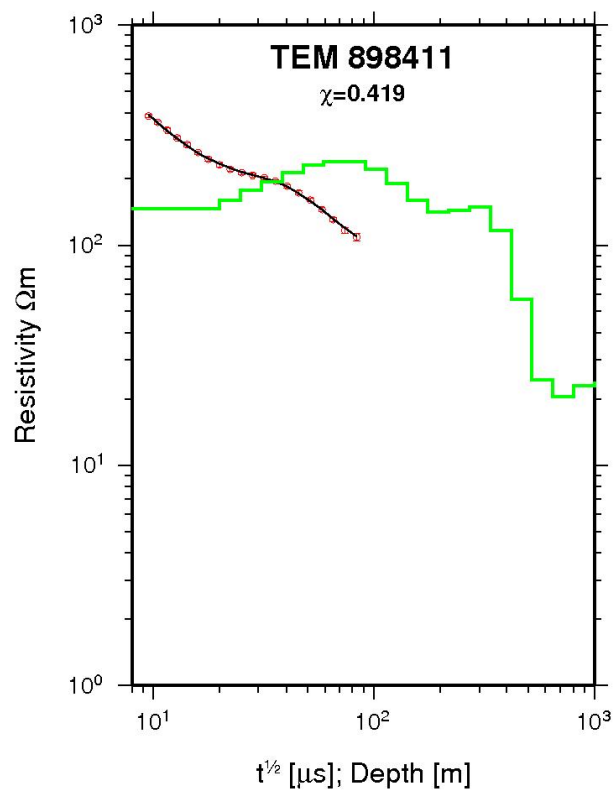
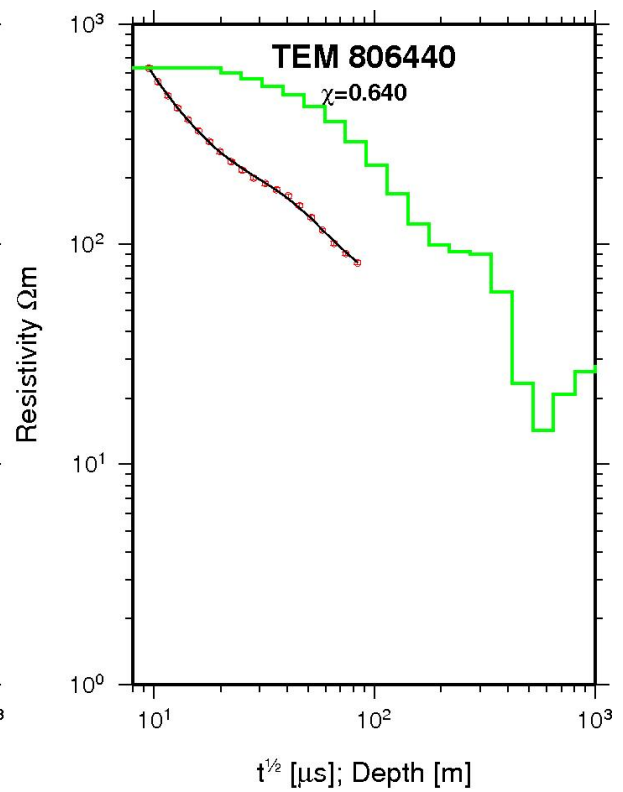
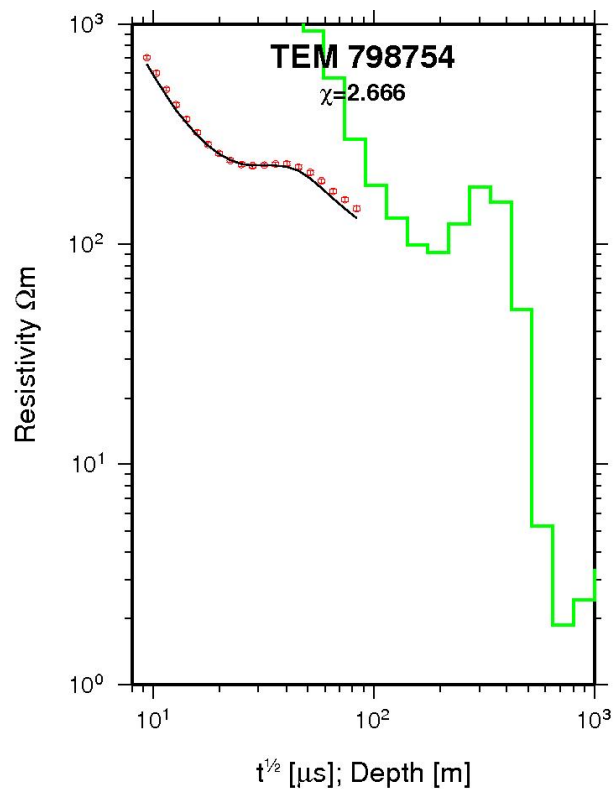










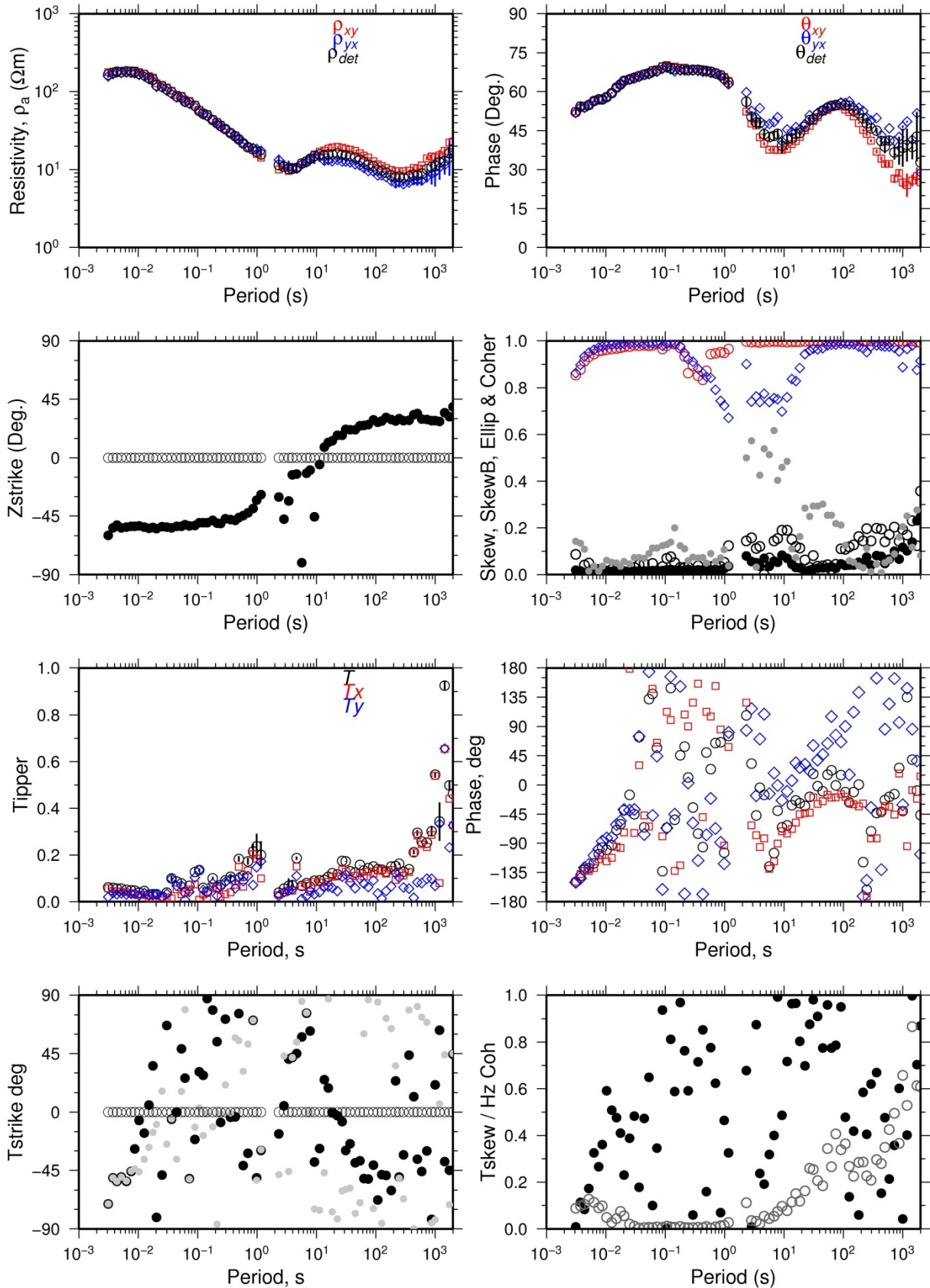




APPENDIX II: MT data processing around Eyjafjallajökull glacier

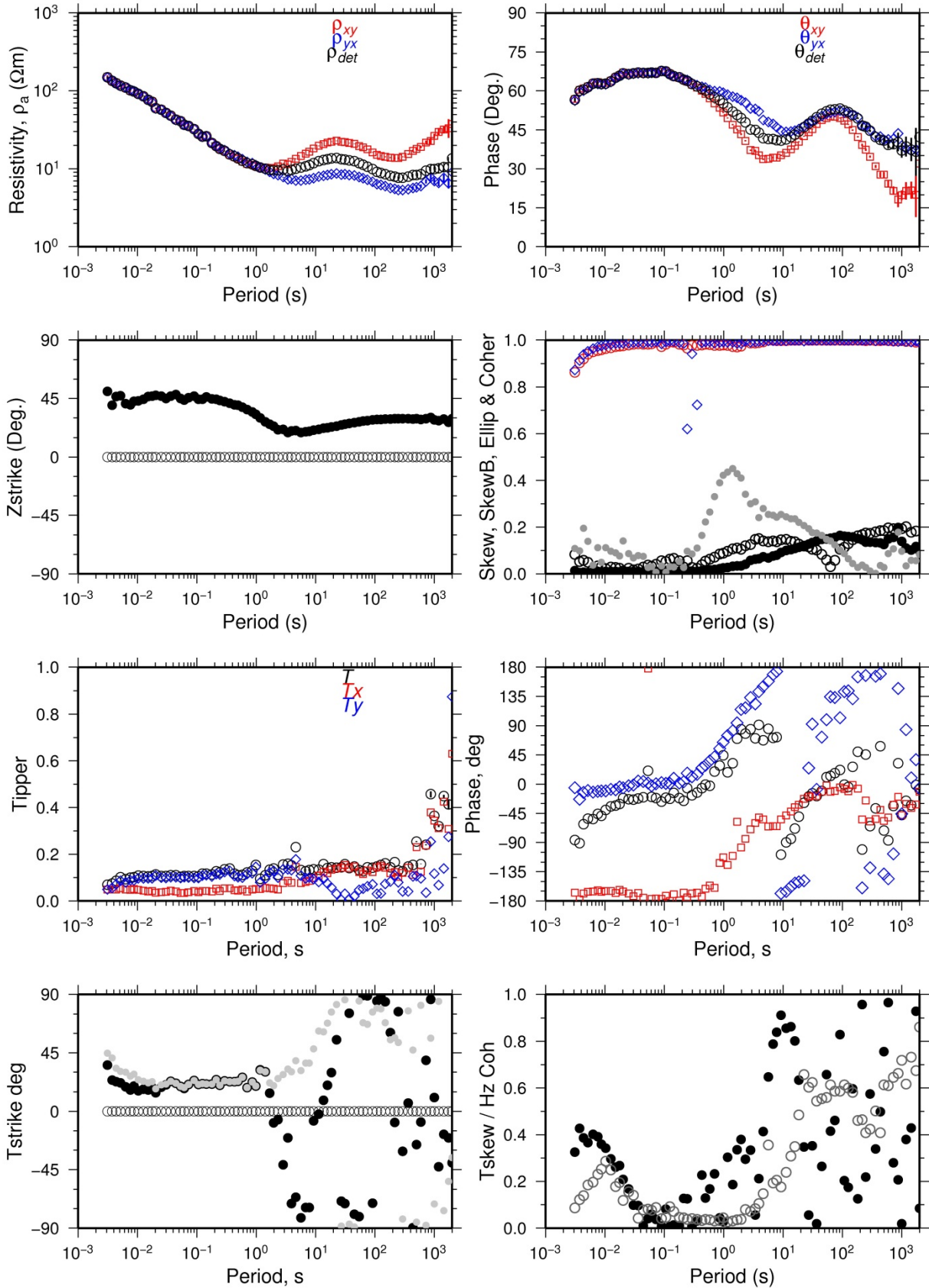
EYJ101

Skrá: EYJ101.EDI



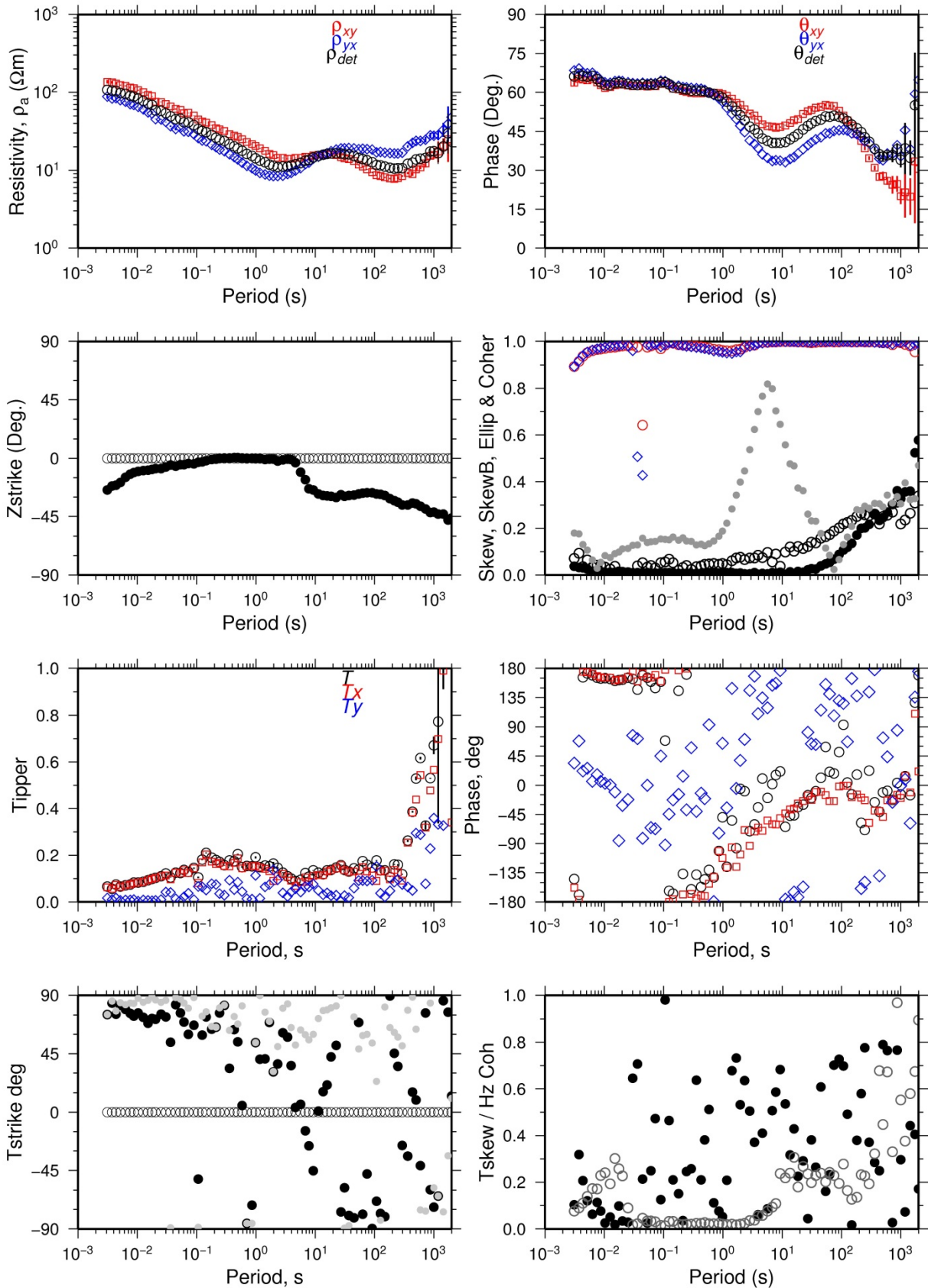
### EYJ102

Skrá: EYJ102.EDI



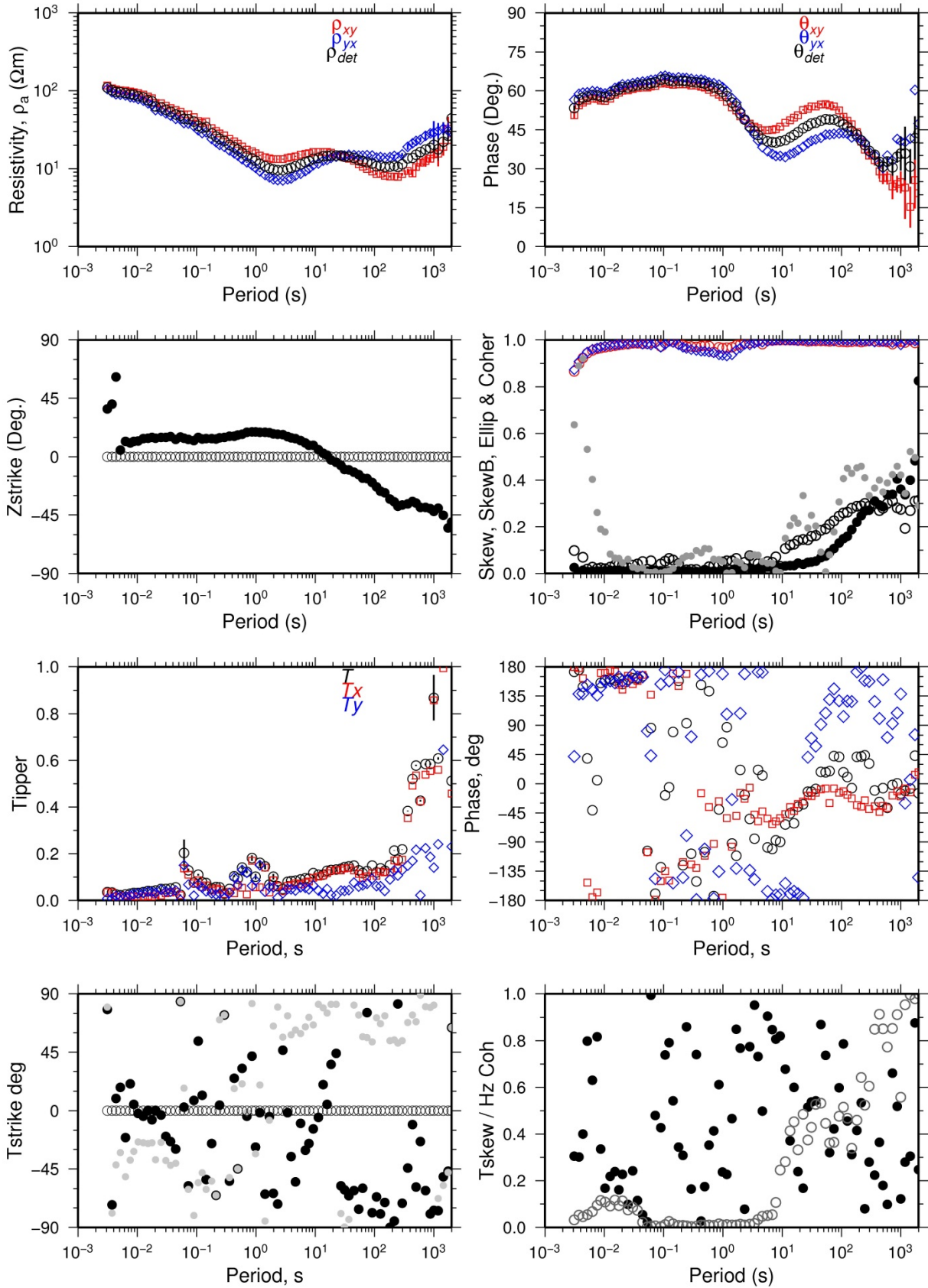
EYJ103

Skrá: EYJ103.EDI



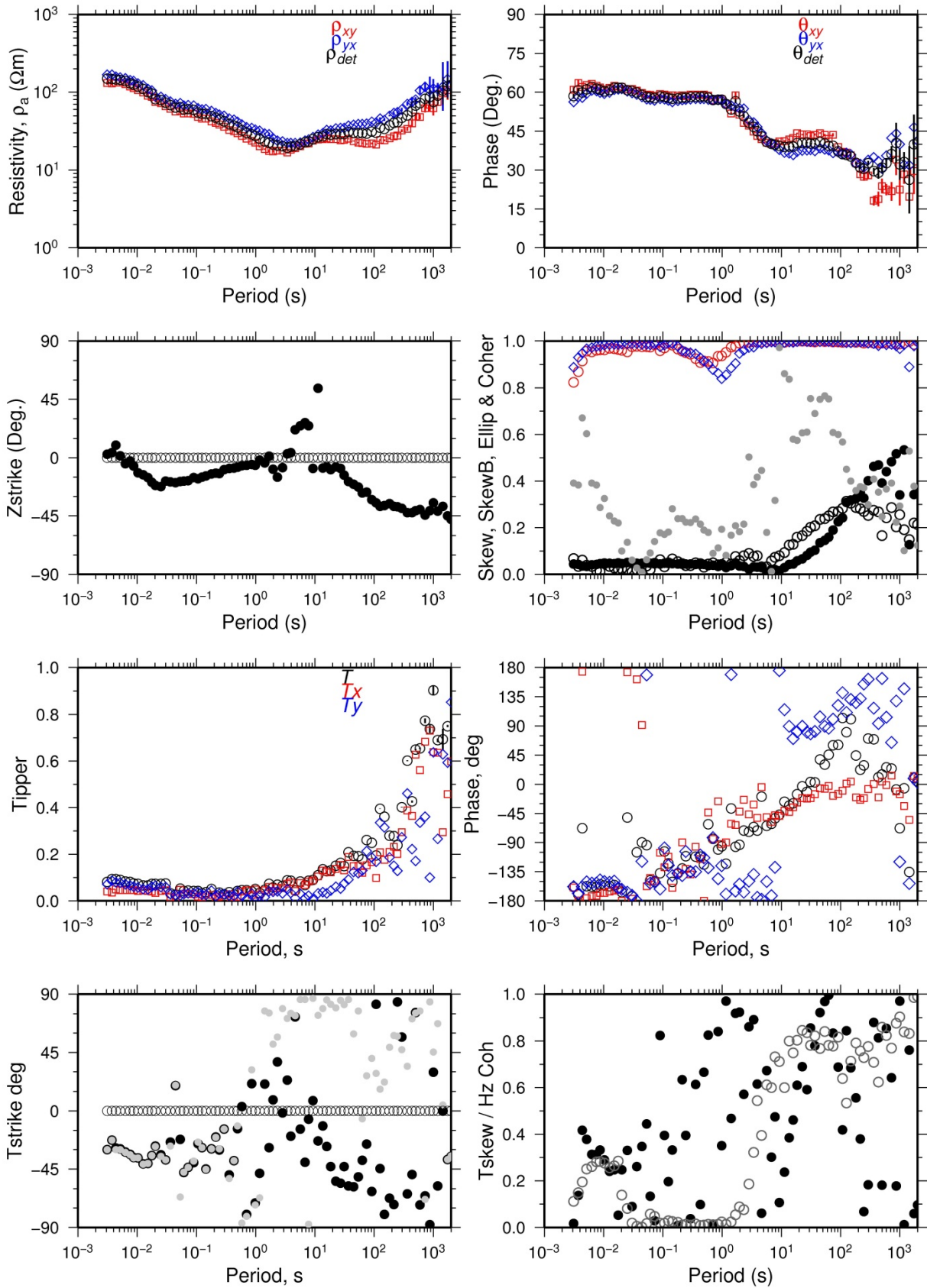
### EYJ104

Skrá: EYJ104.EDI



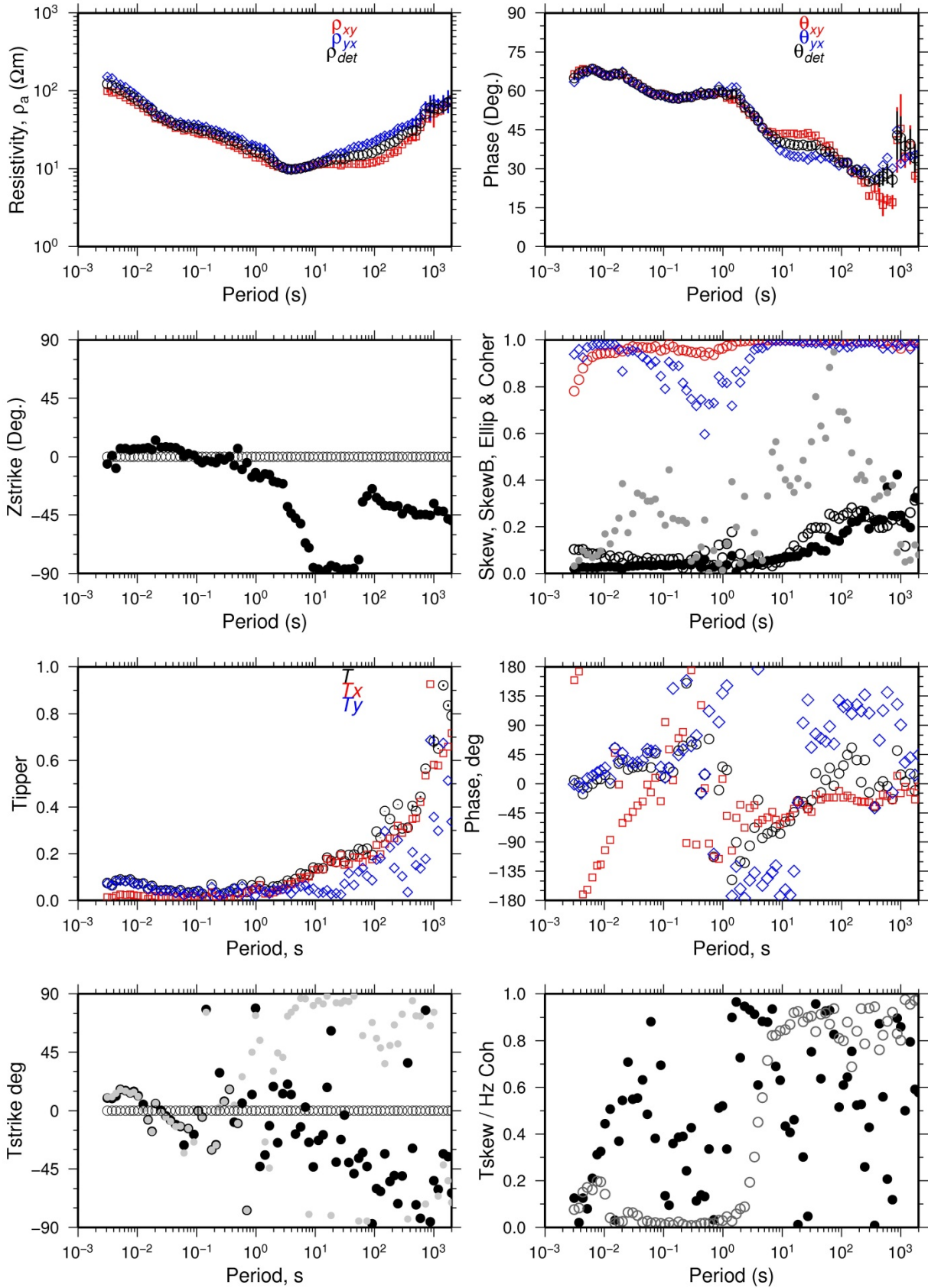
**EYJ106**

Skrá: EYJ106.EDI



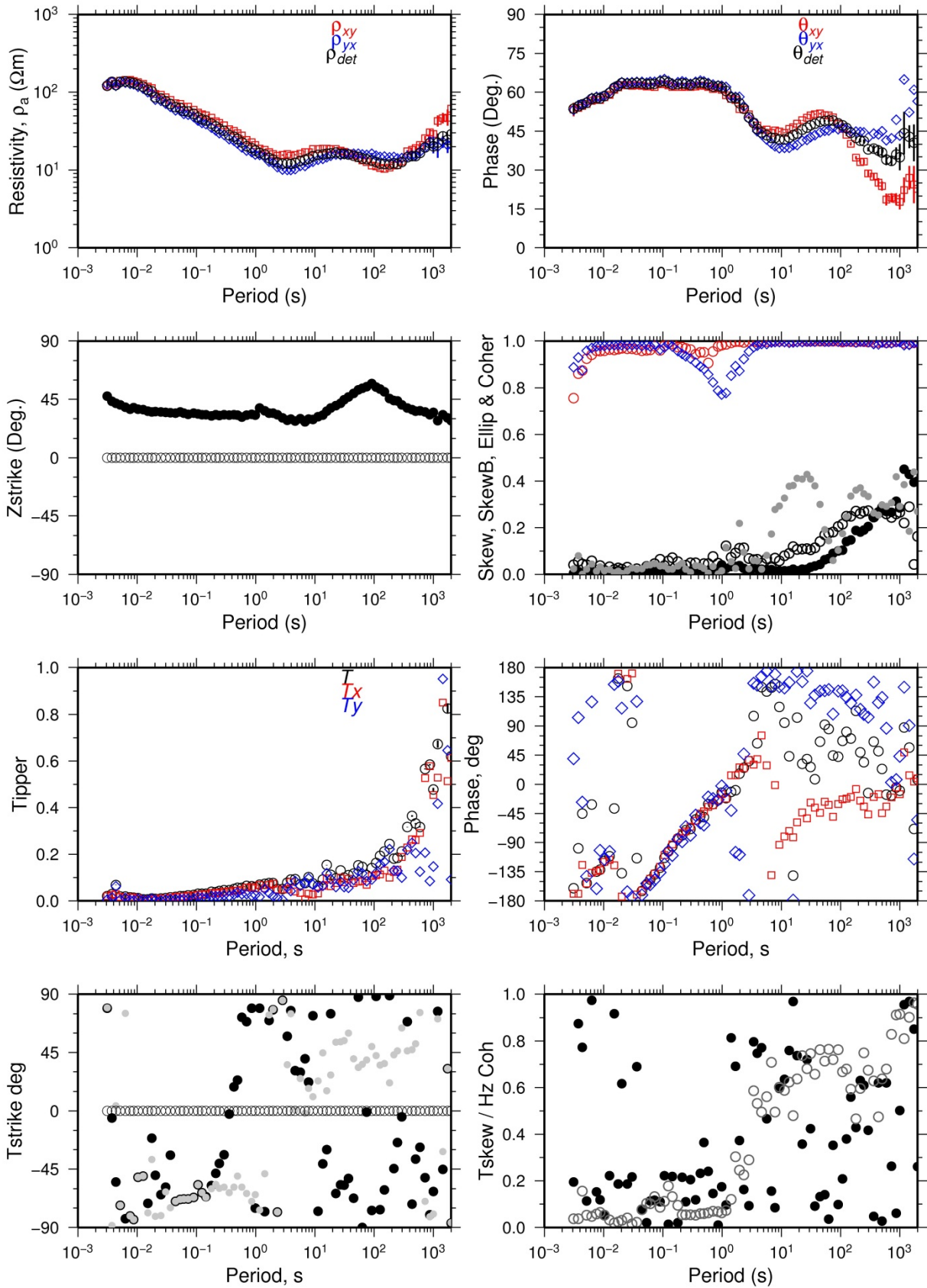
### EYJ107

Skrá: EYJ107.EDI



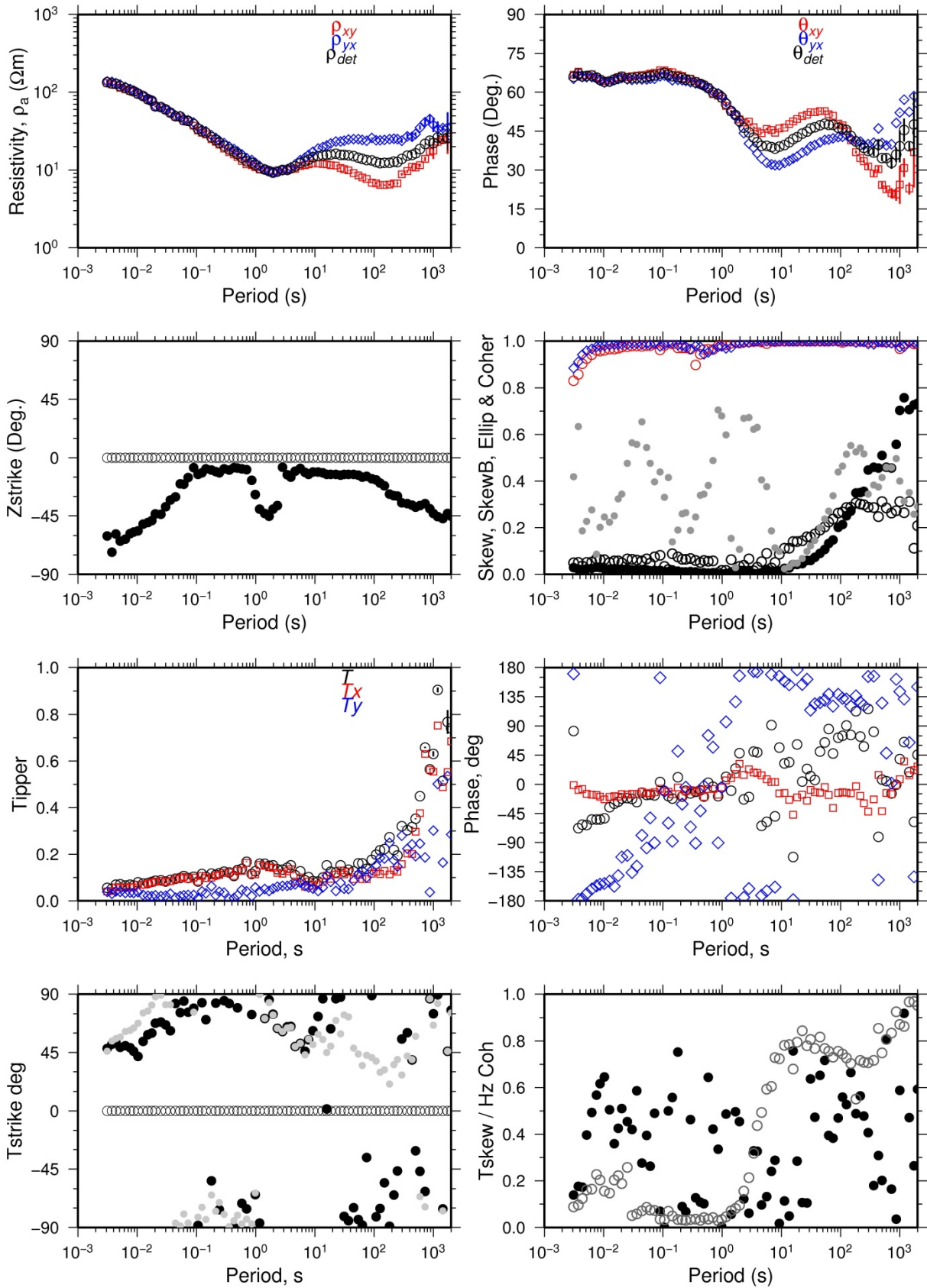
EYJ108

Skrá: EYJ108.EDI



### EYJ109

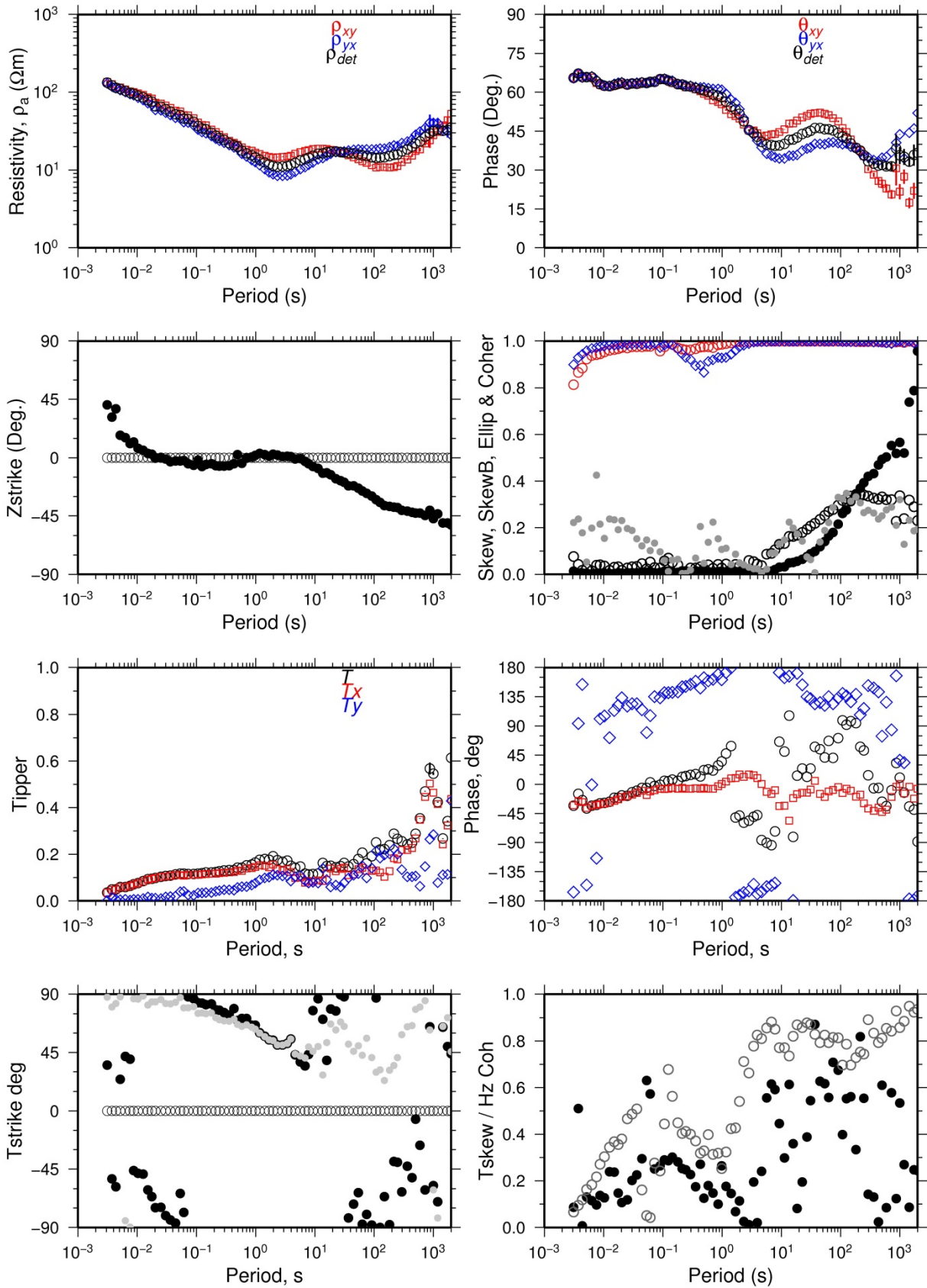
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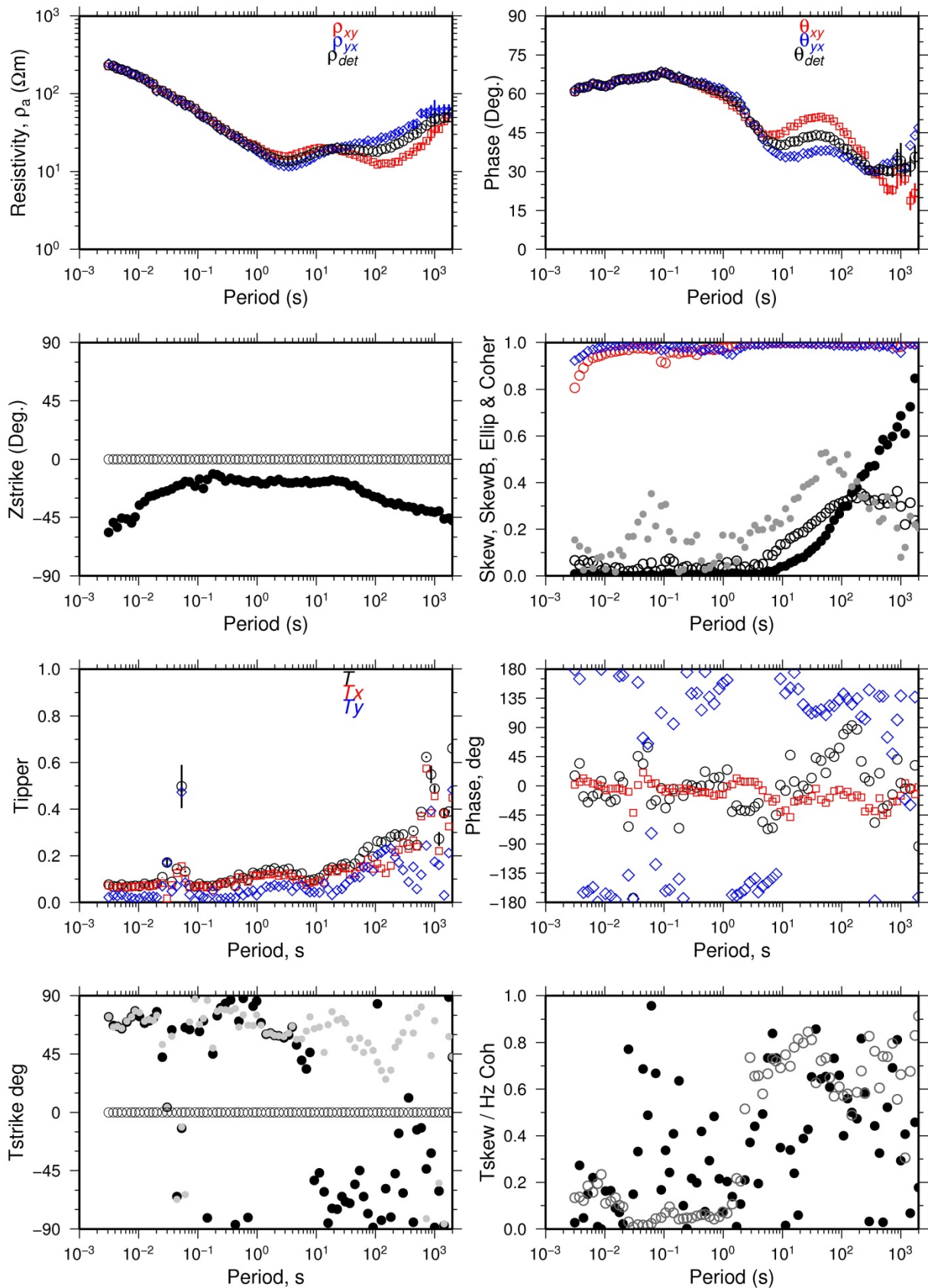
EYJ110

Skrá: EYJ110.EDI



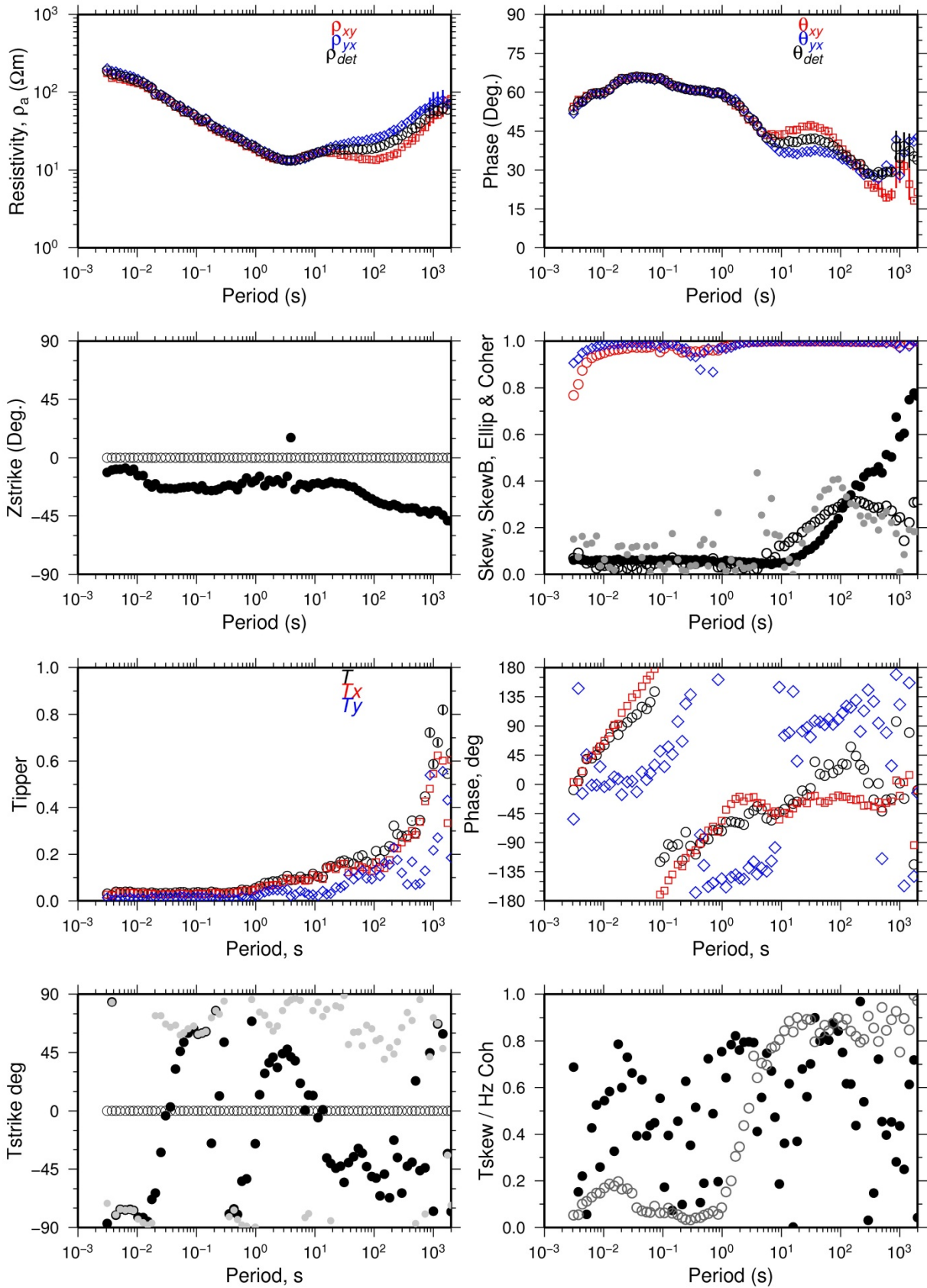
EYJ111

Skrá: EYJ111.EDI



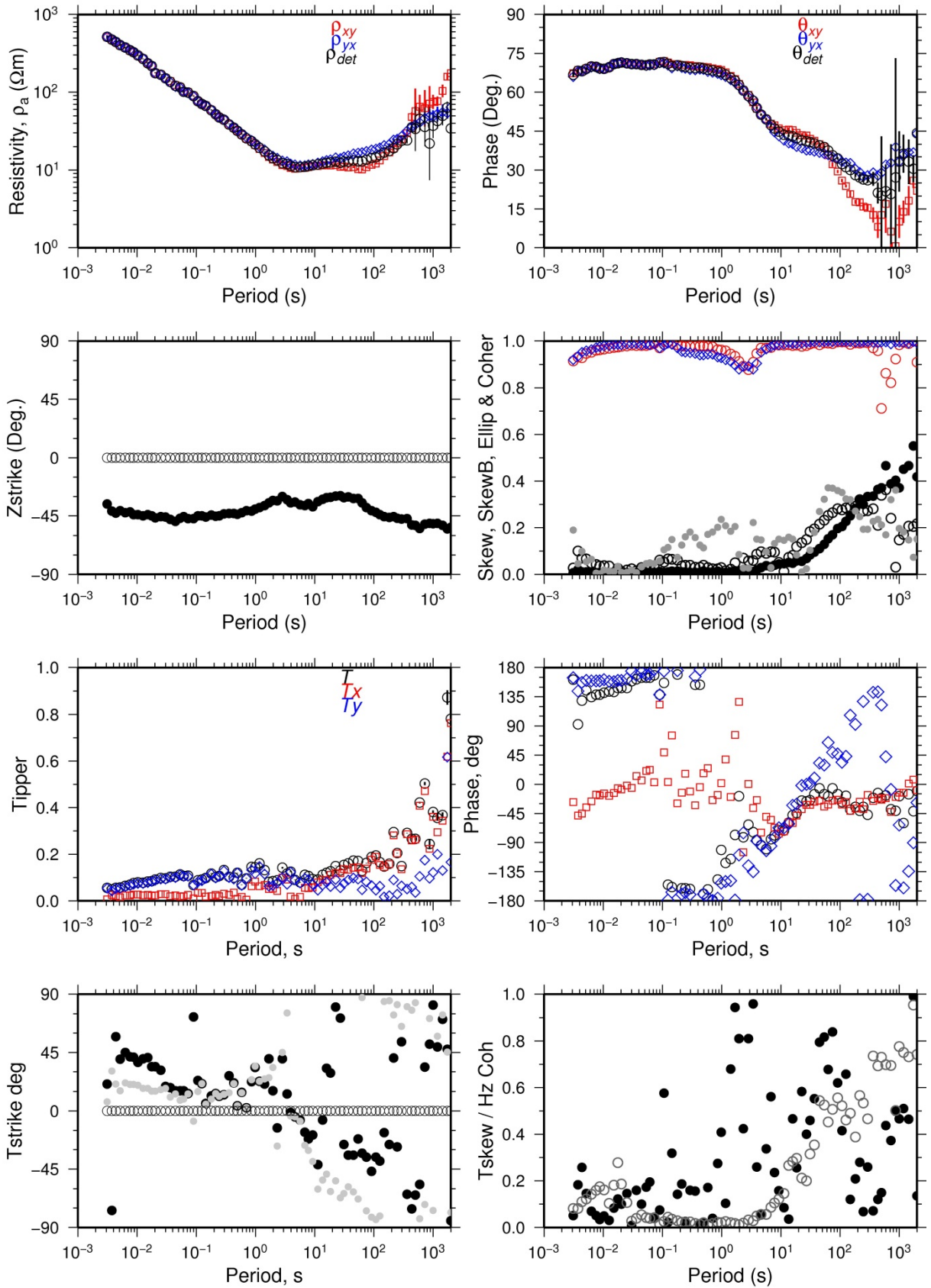
EYJ112

Skrá: EYJ112.EDI



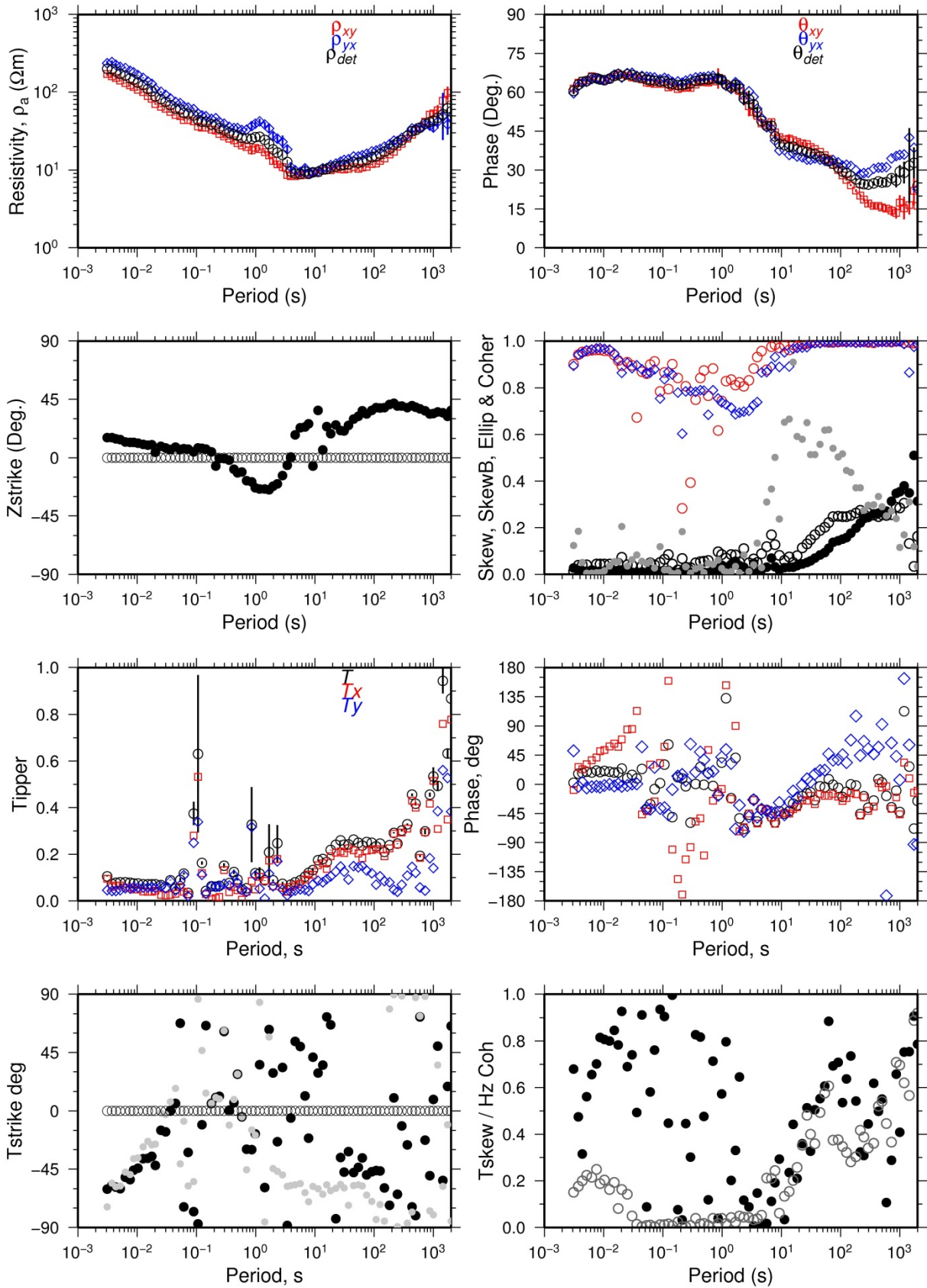
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Skrá: EYJ114.EDI



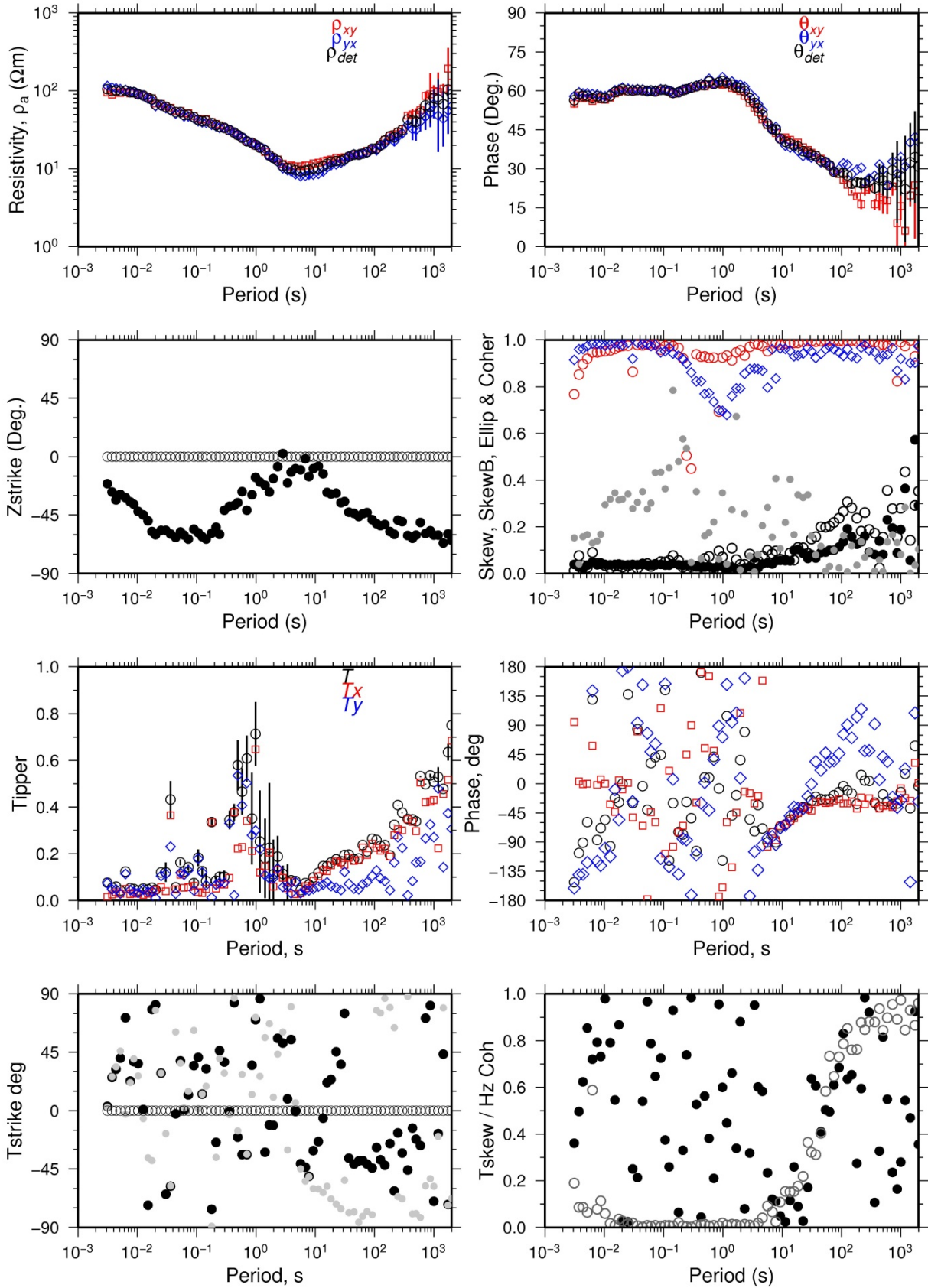
EYJ115

Skrá: EYJ115.EDI



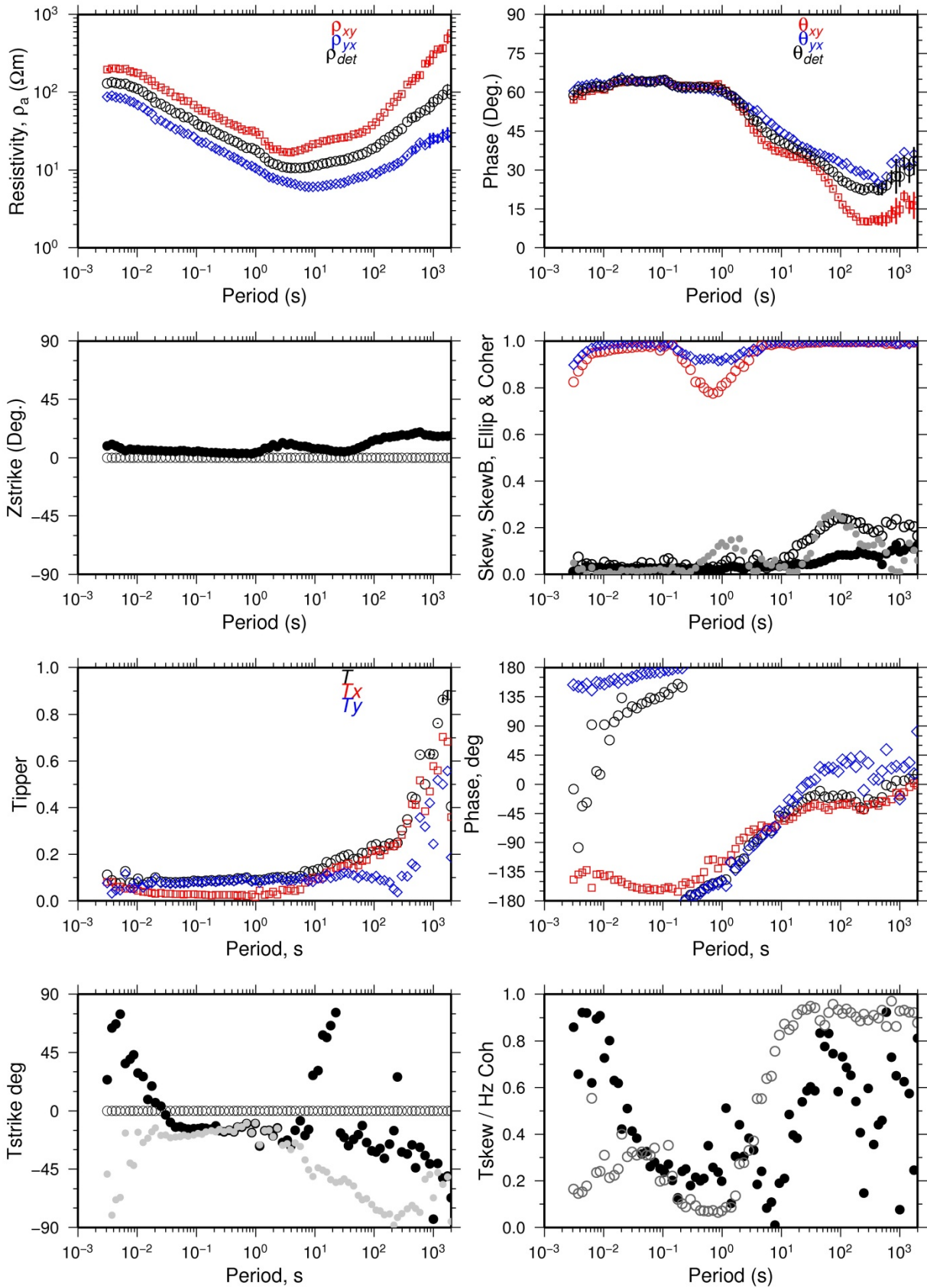
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Skrá: EYJ116.EDI



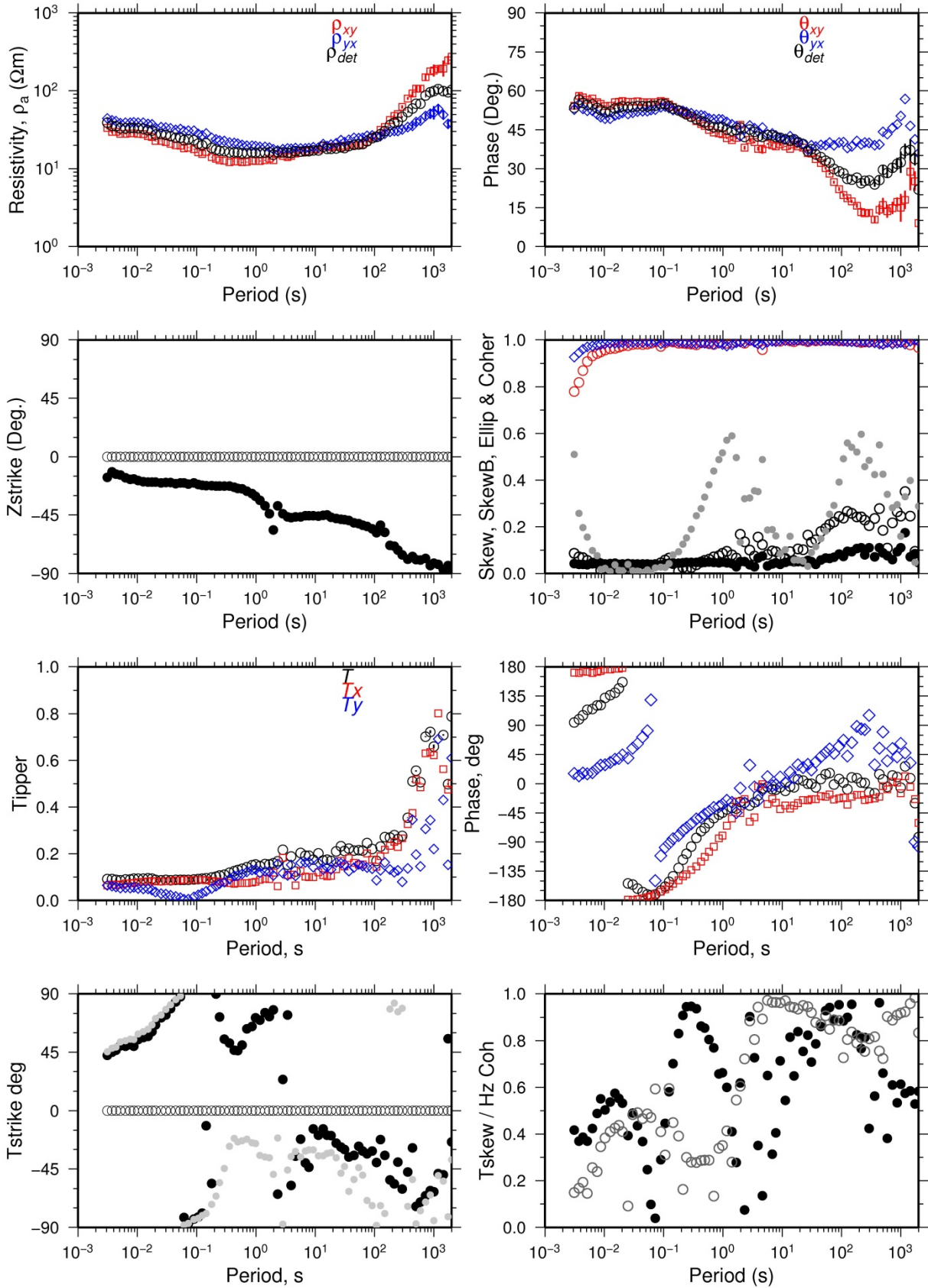
EYJ117

Skrá: EYJ117.EDI



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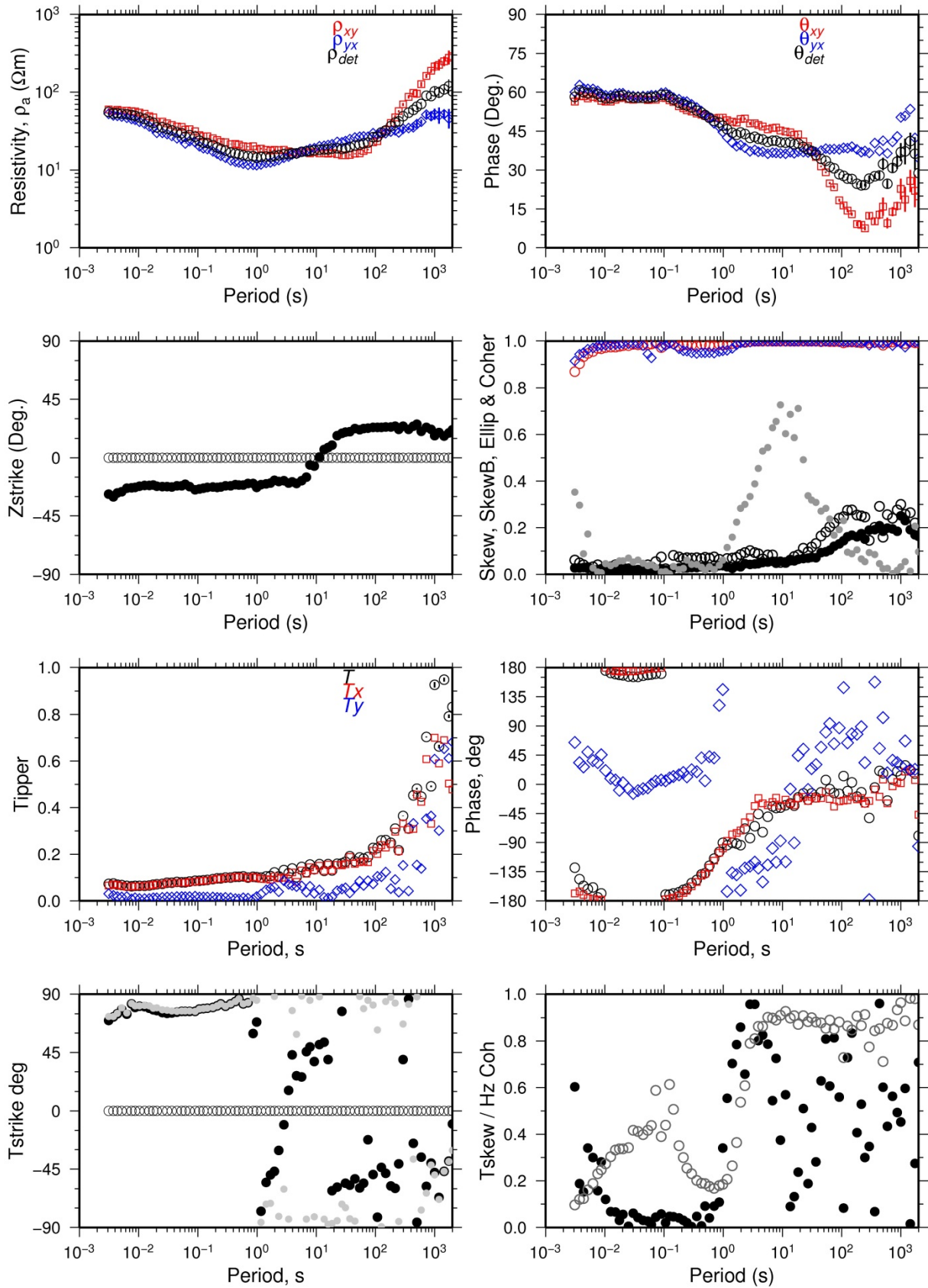
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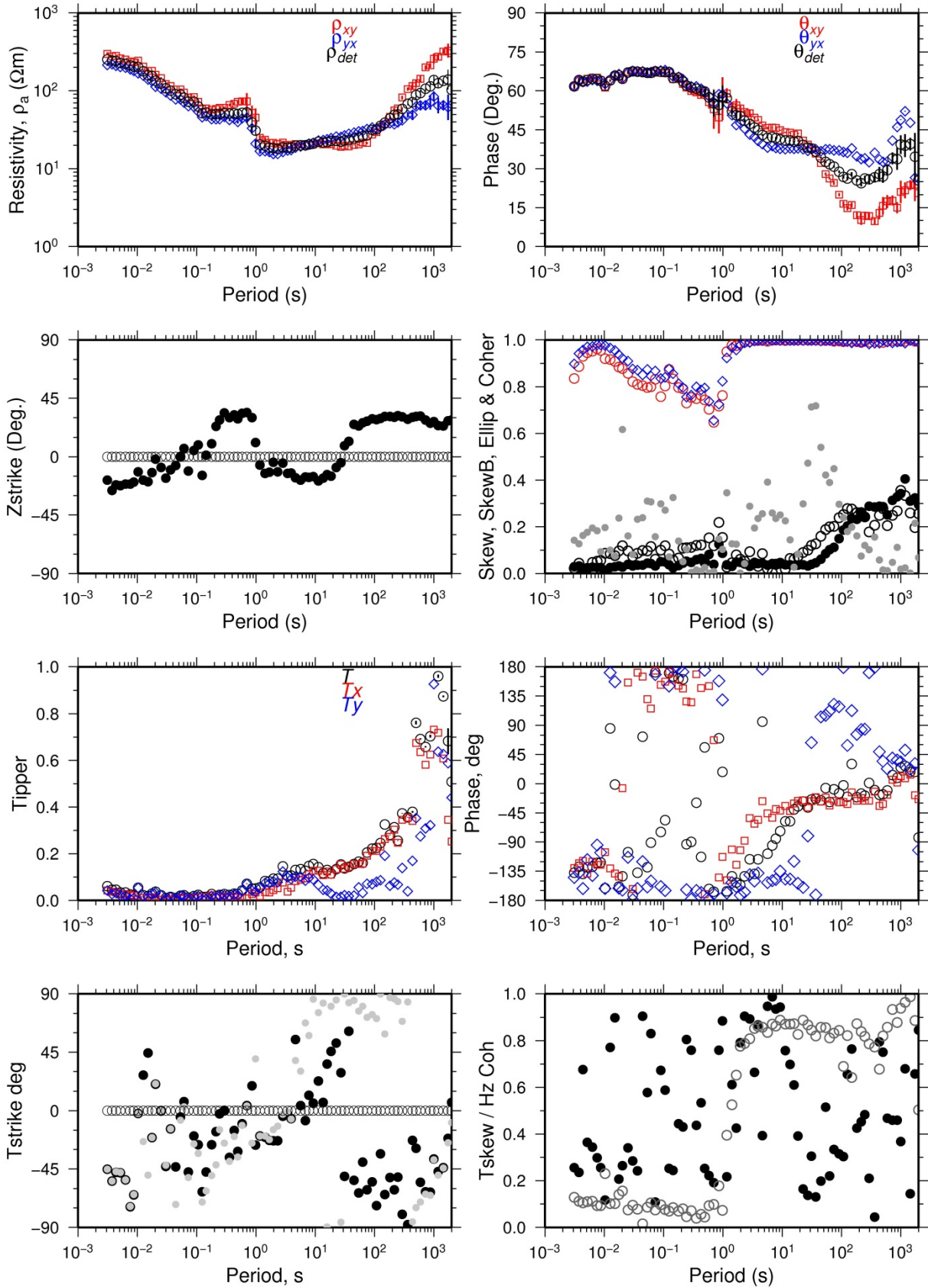
EYJ119

Skrá: EYJ119.EDI



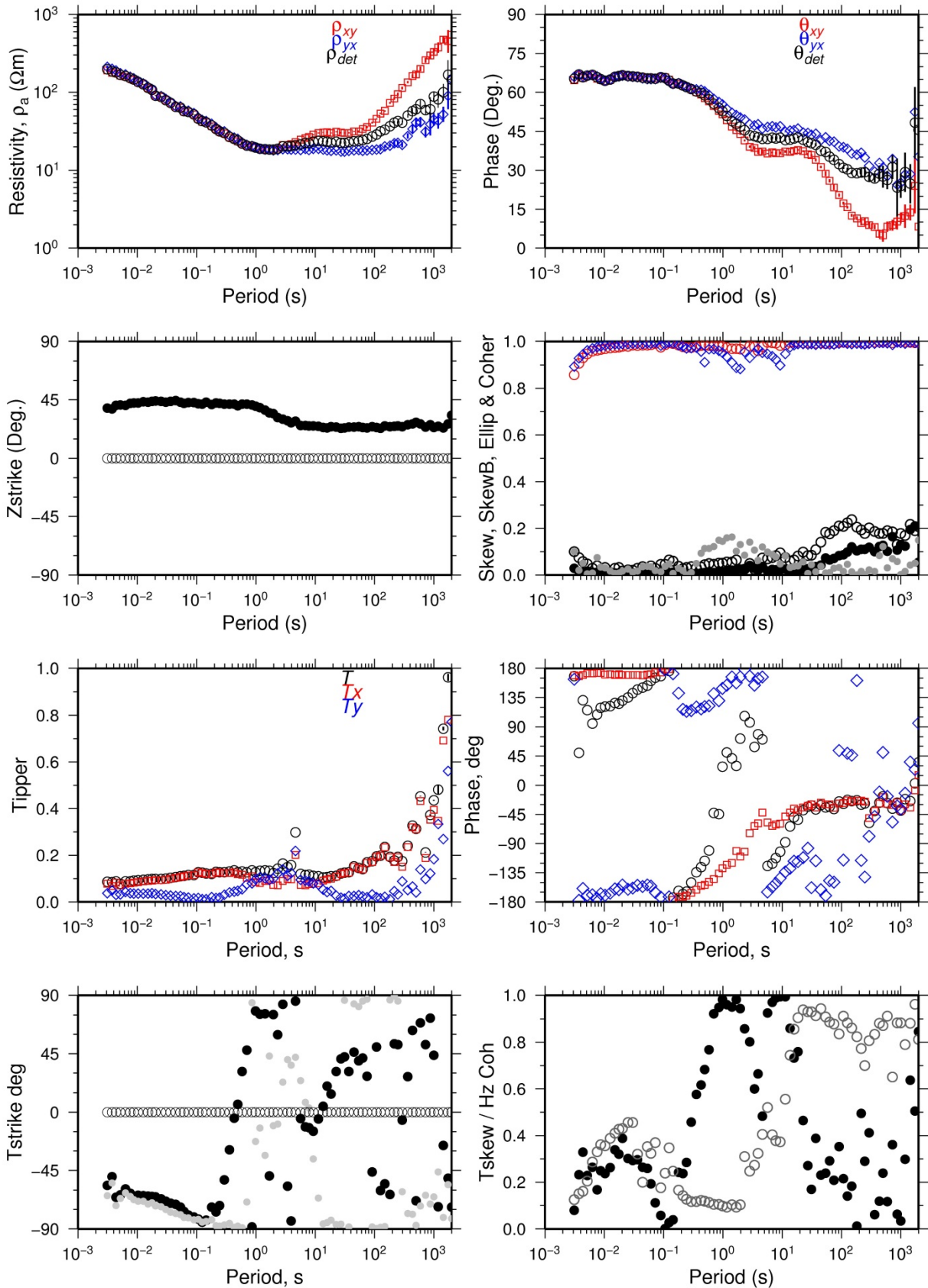
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Skrá: EYJ120.EDI



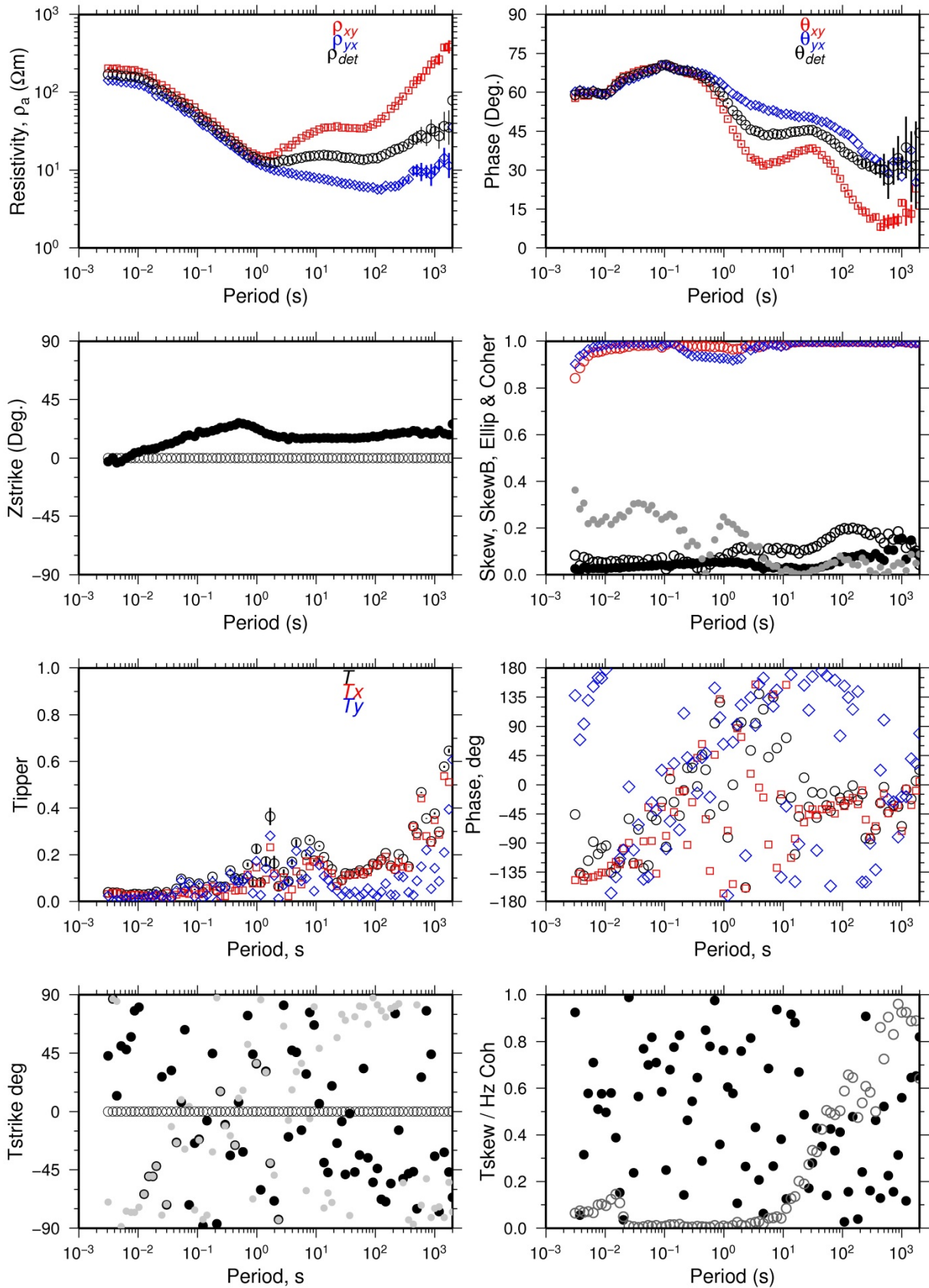
EYJ121

Skrá: EYJ121.EDI



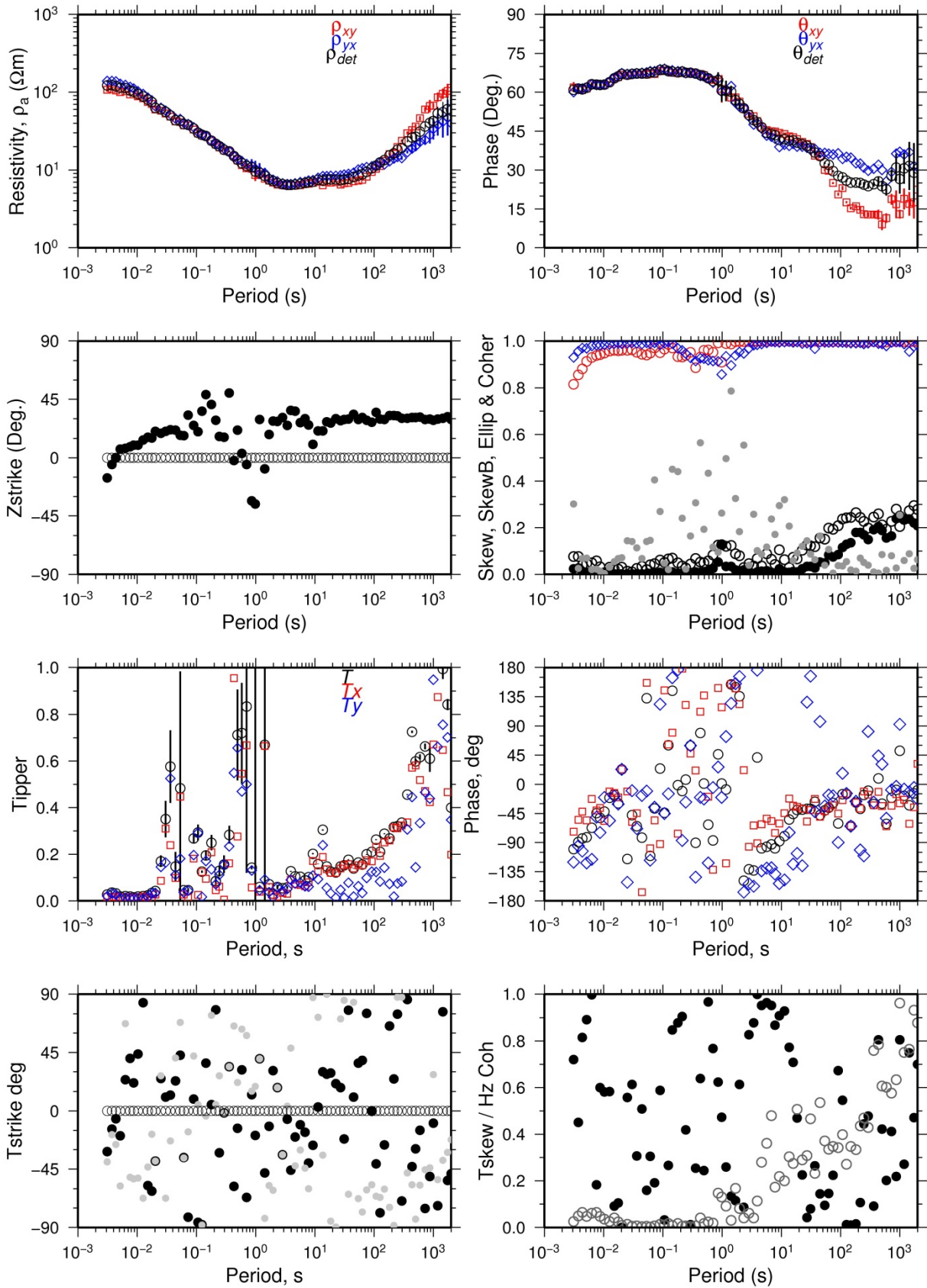
### EYJ122

Skrá: EYJ122.EDI



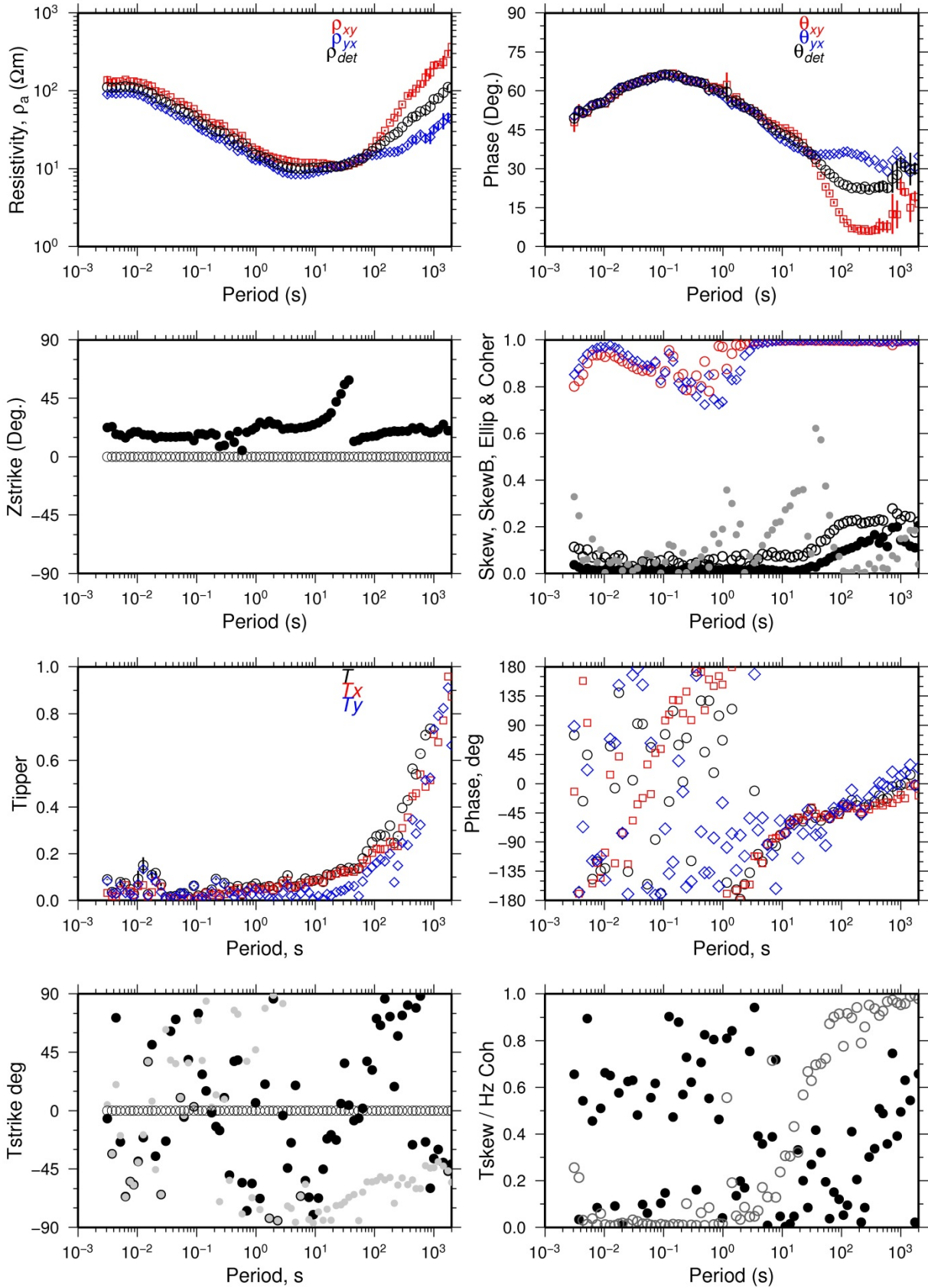
**EYJ123**

Skrá: EYJ123.EDI



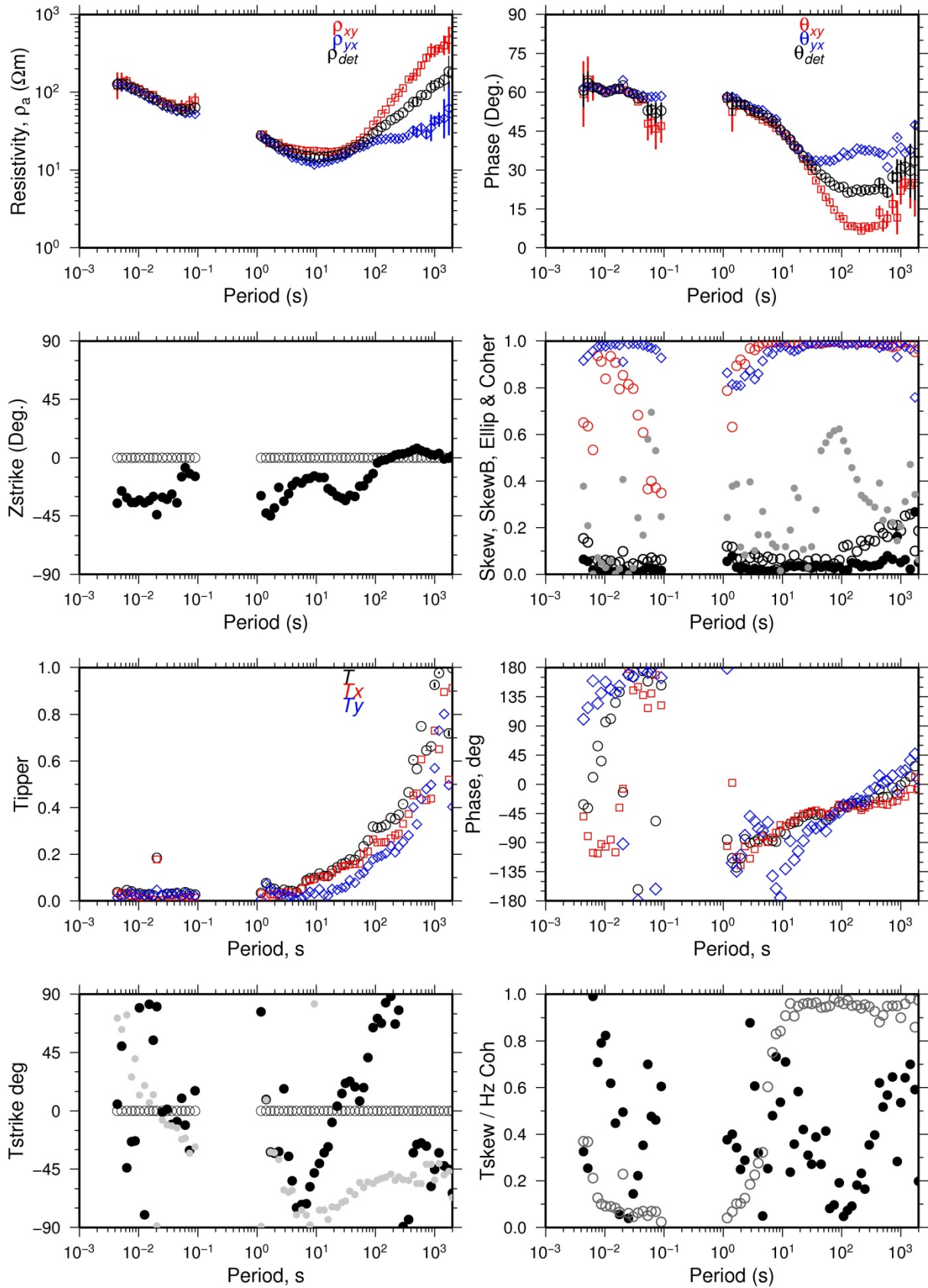
### EYJ124

Skrá: EYJ124.EDI



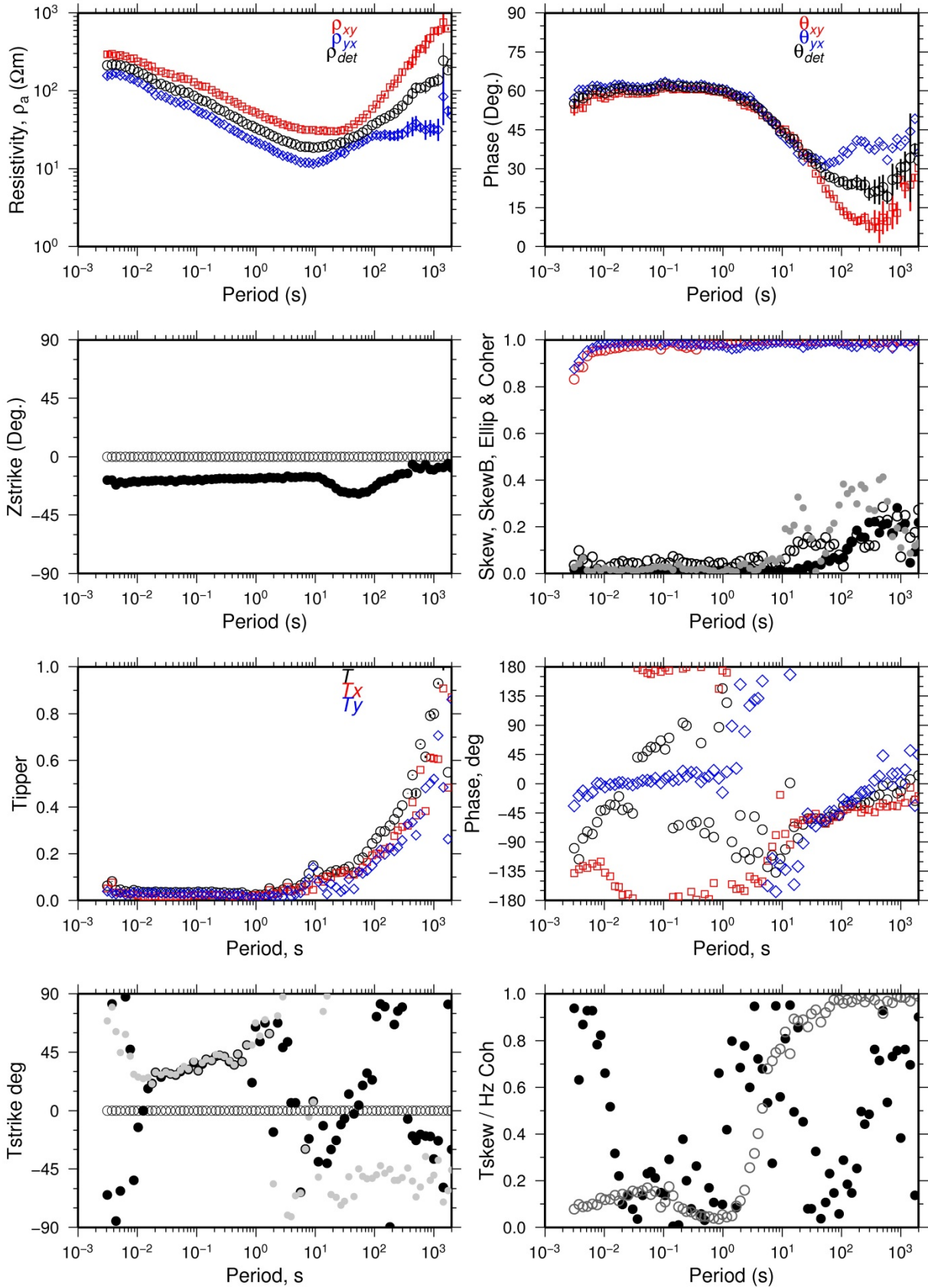
EYJ125

Skrá: EYJ125.EDI



### EYJ126

Skrá: EYJ126.EDI

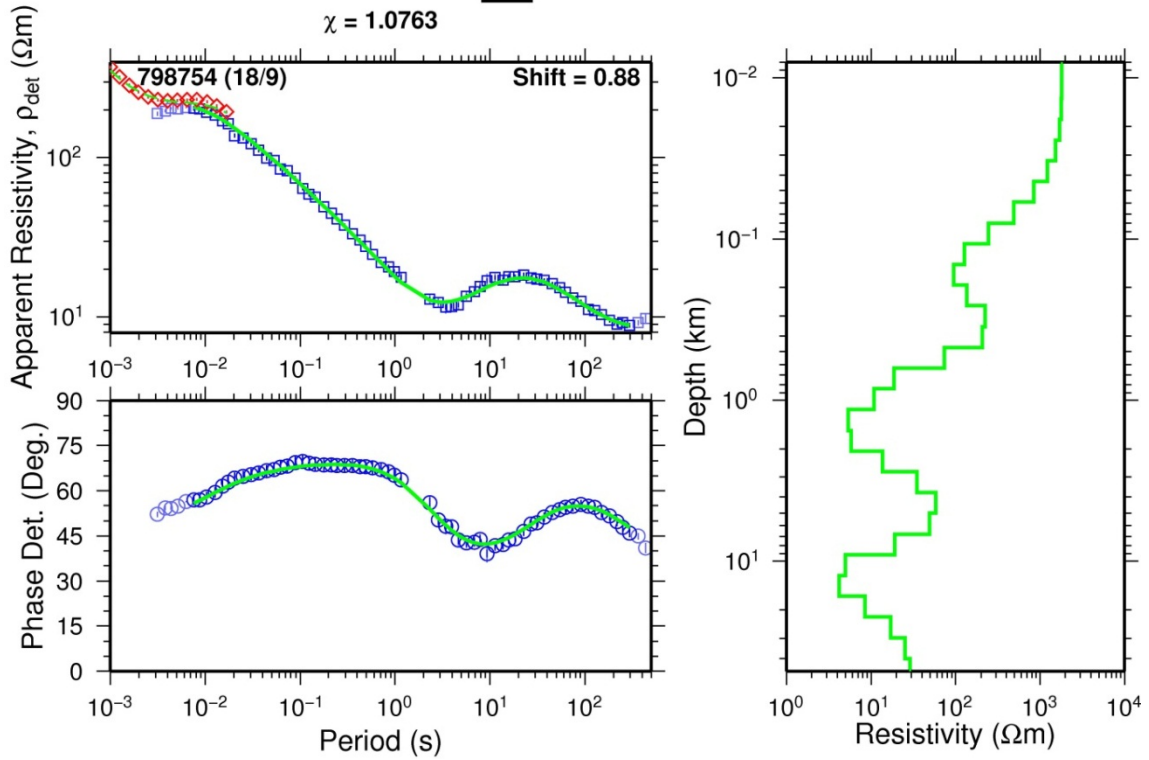




**APPENDIX III: TEM and MT resistivity data around Eyjafjallajökull glacier and 1-D joint inversion of the MT and TEM profiles**

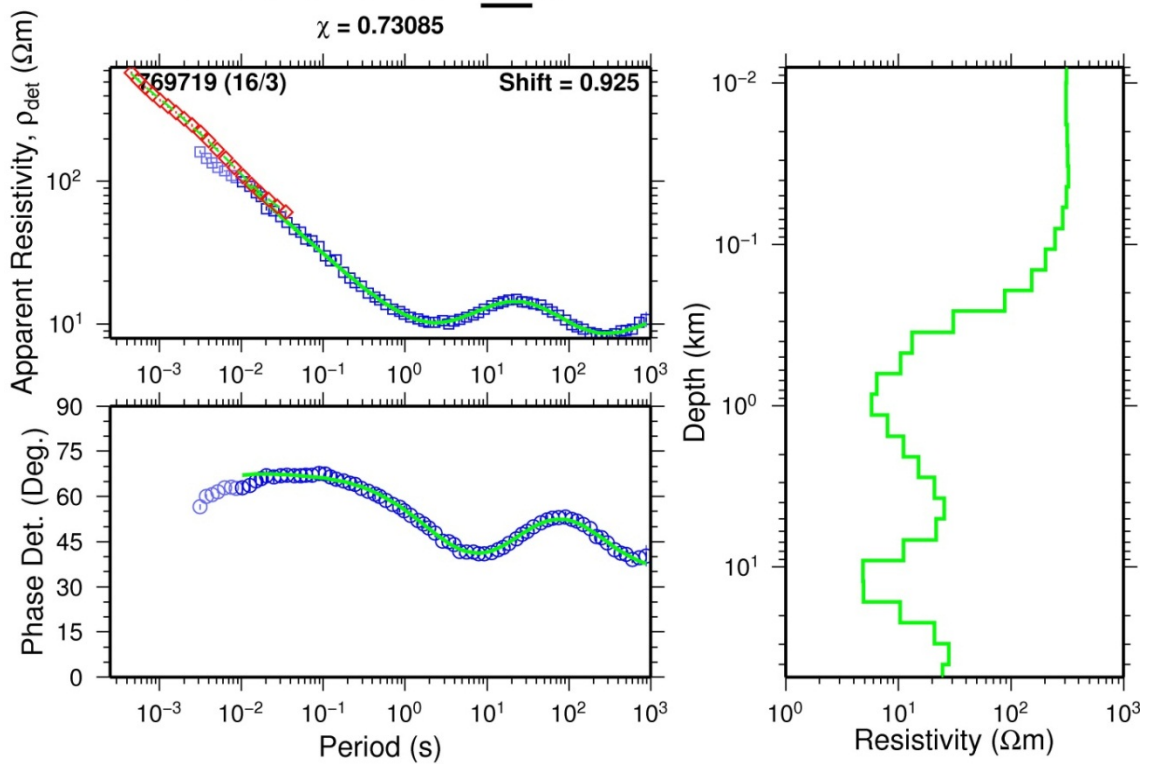
# EYJ101\_o

$\chi = 1.0763$



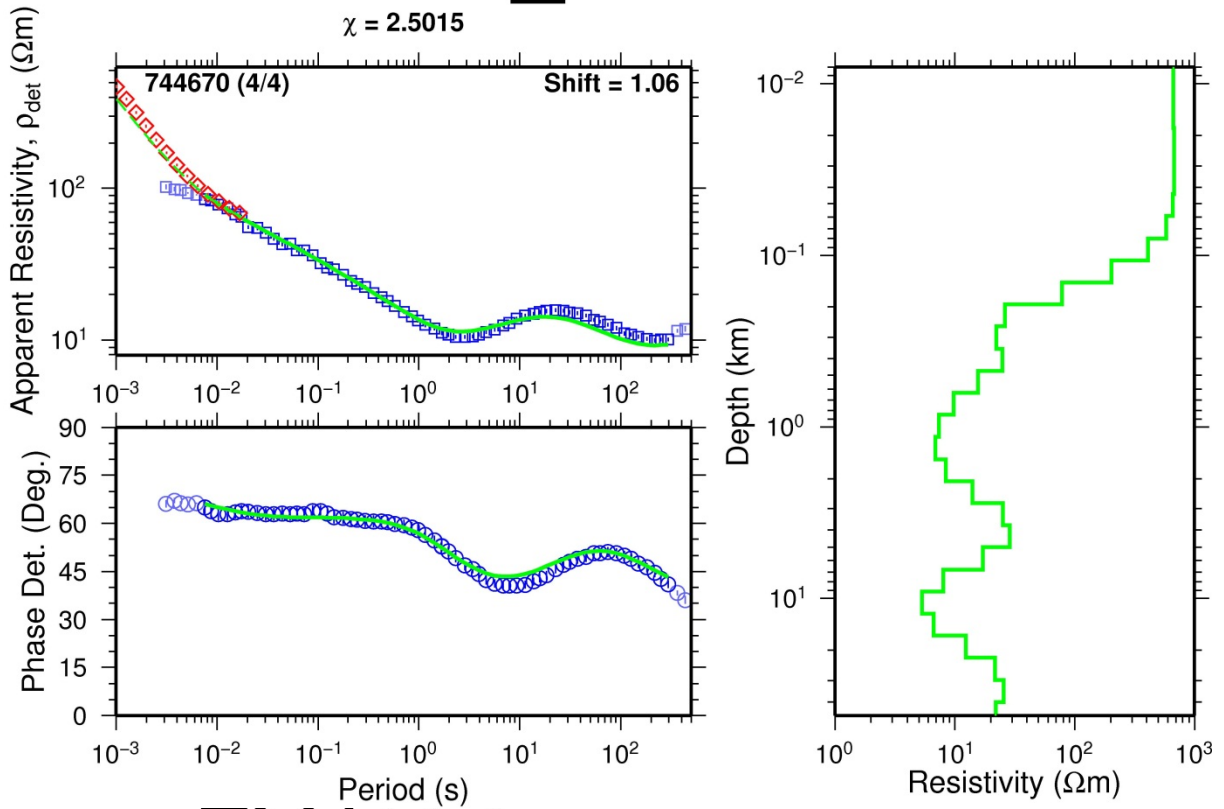
# EYJ102\_o

$\chi = 0.73085$



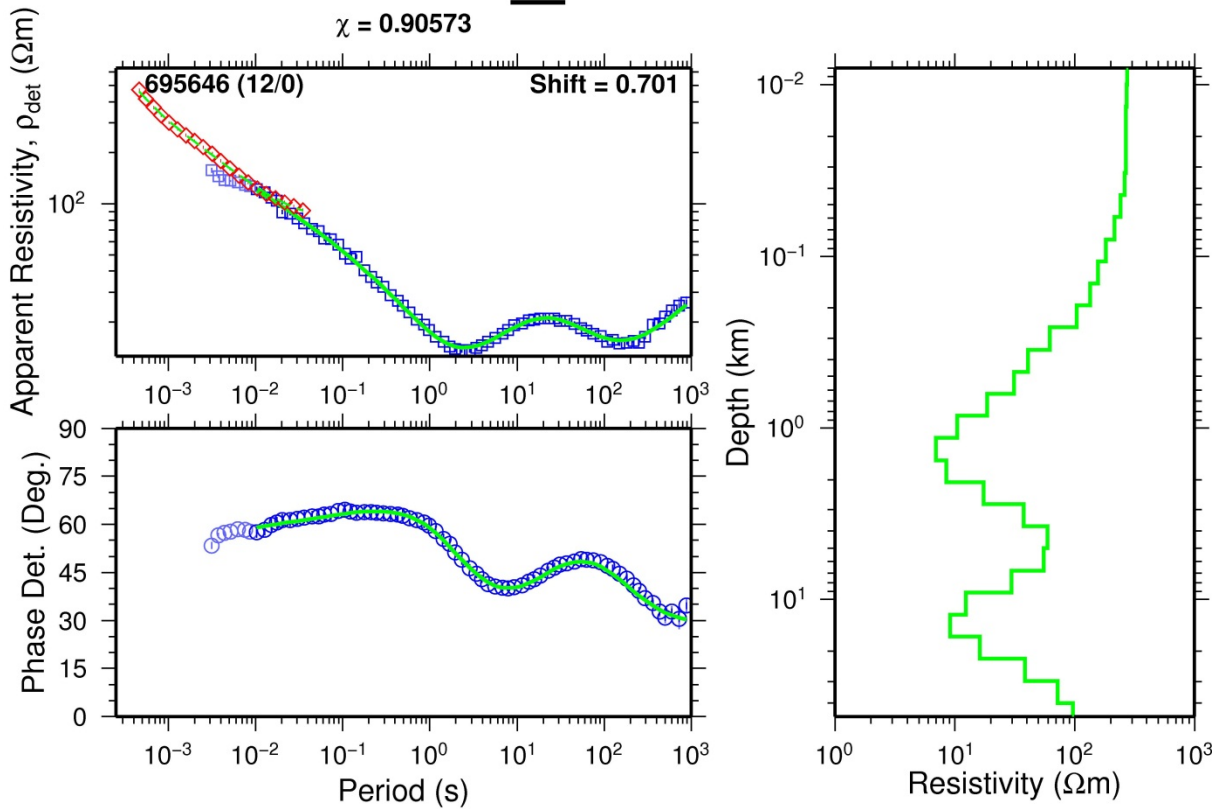
# EYJ103\_o

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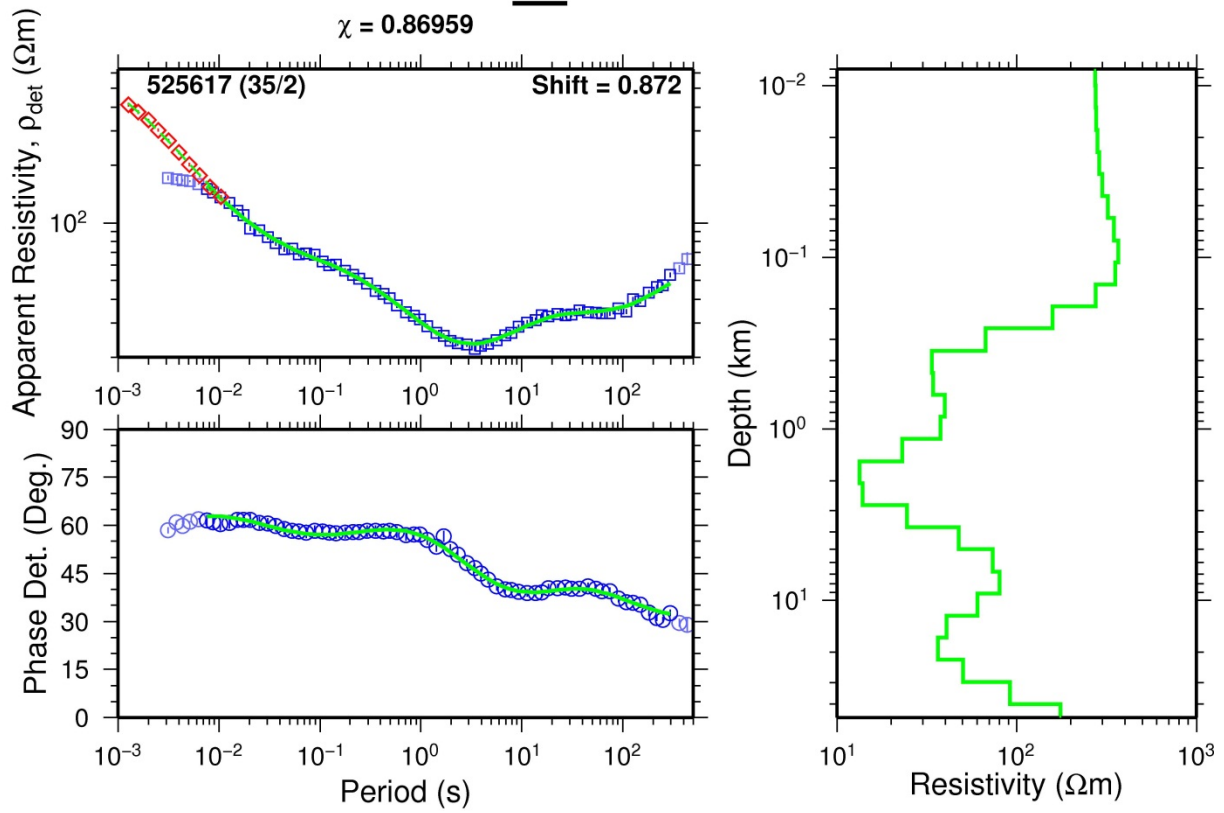
# EYJ104\_o

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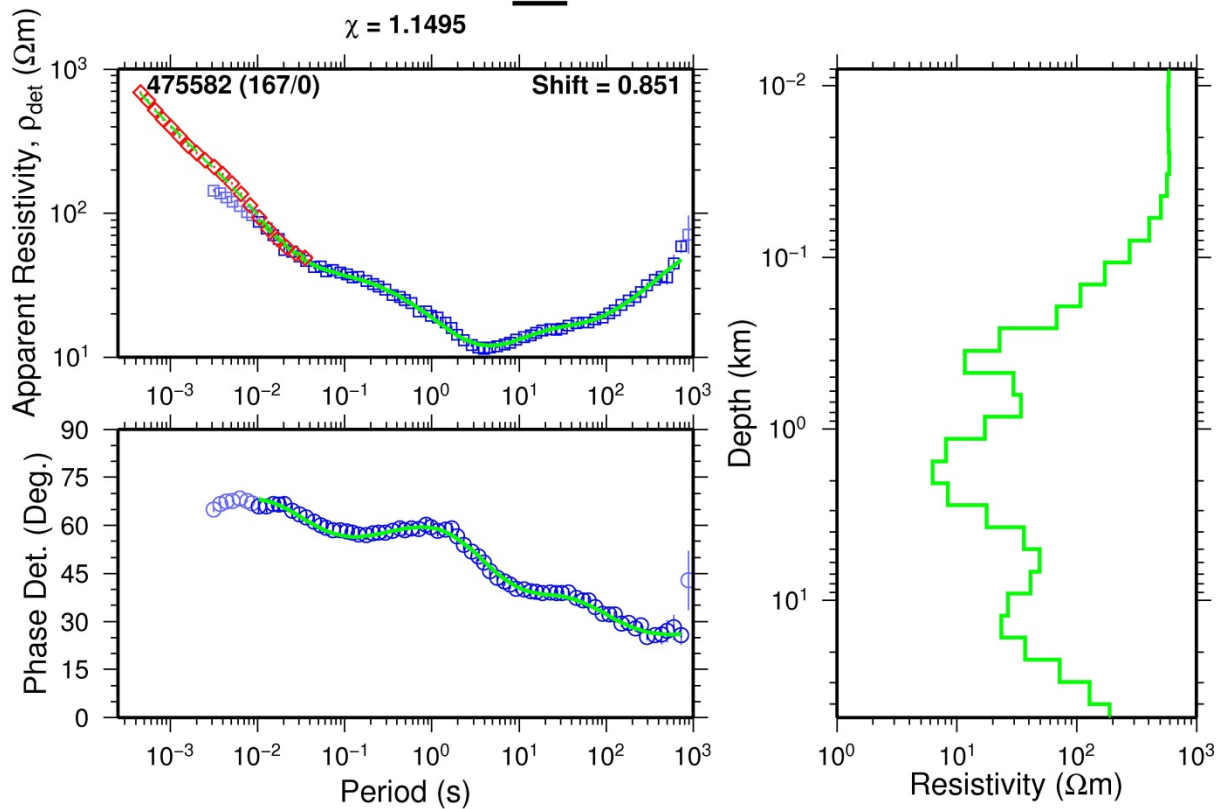
# EYJ106\_o

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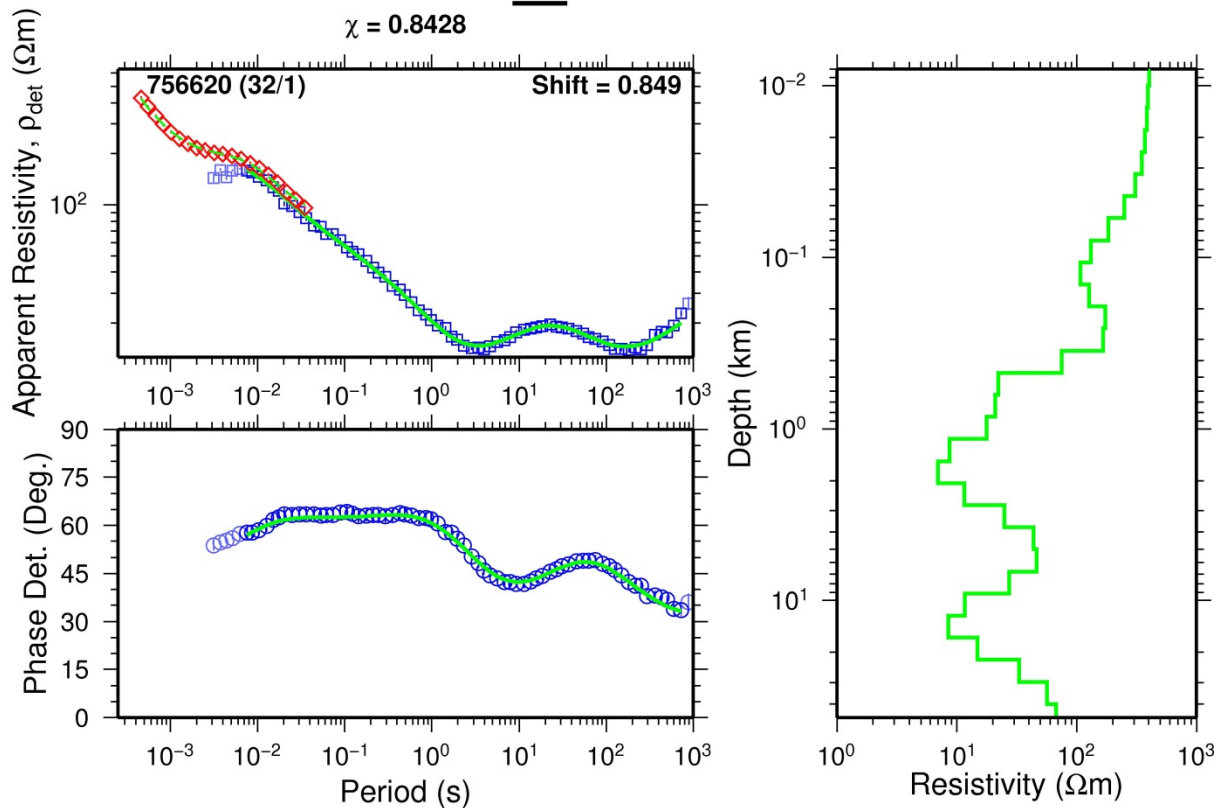
# EYJ107\_o

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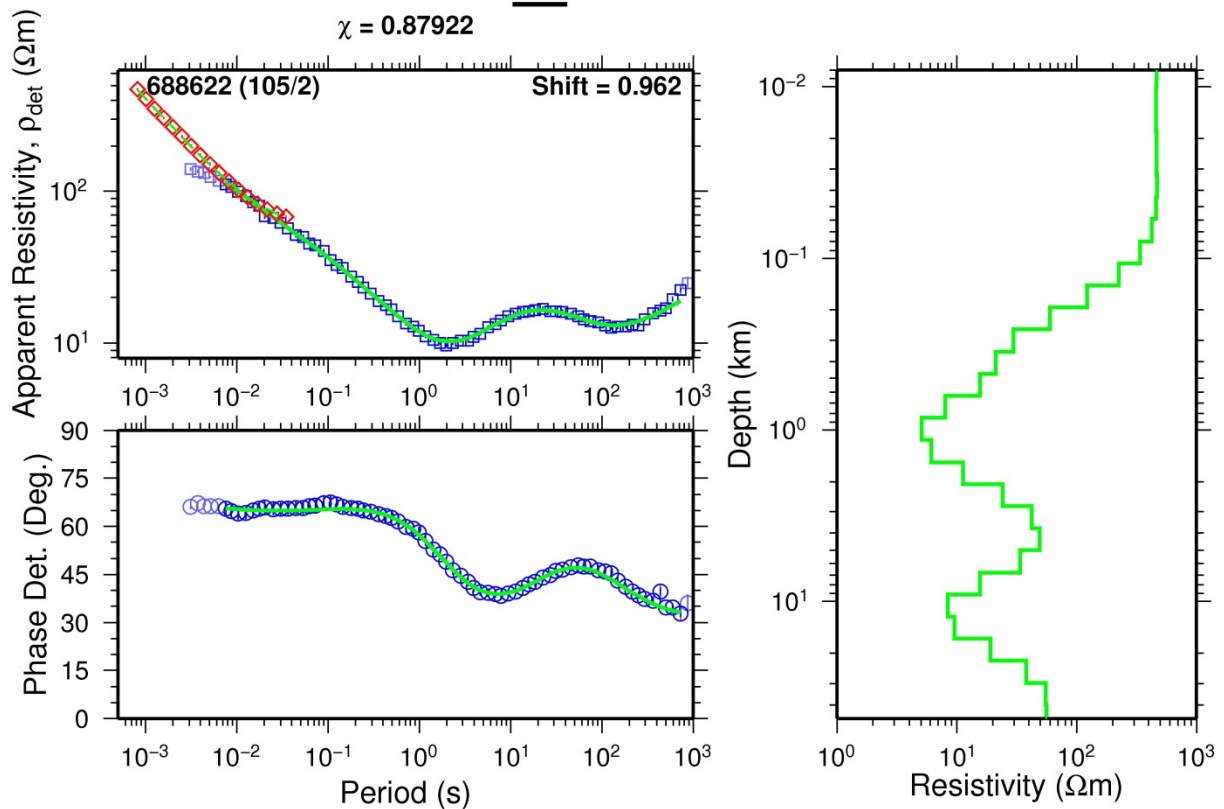
# EYJ108\_o

$\chi = 0.8428$



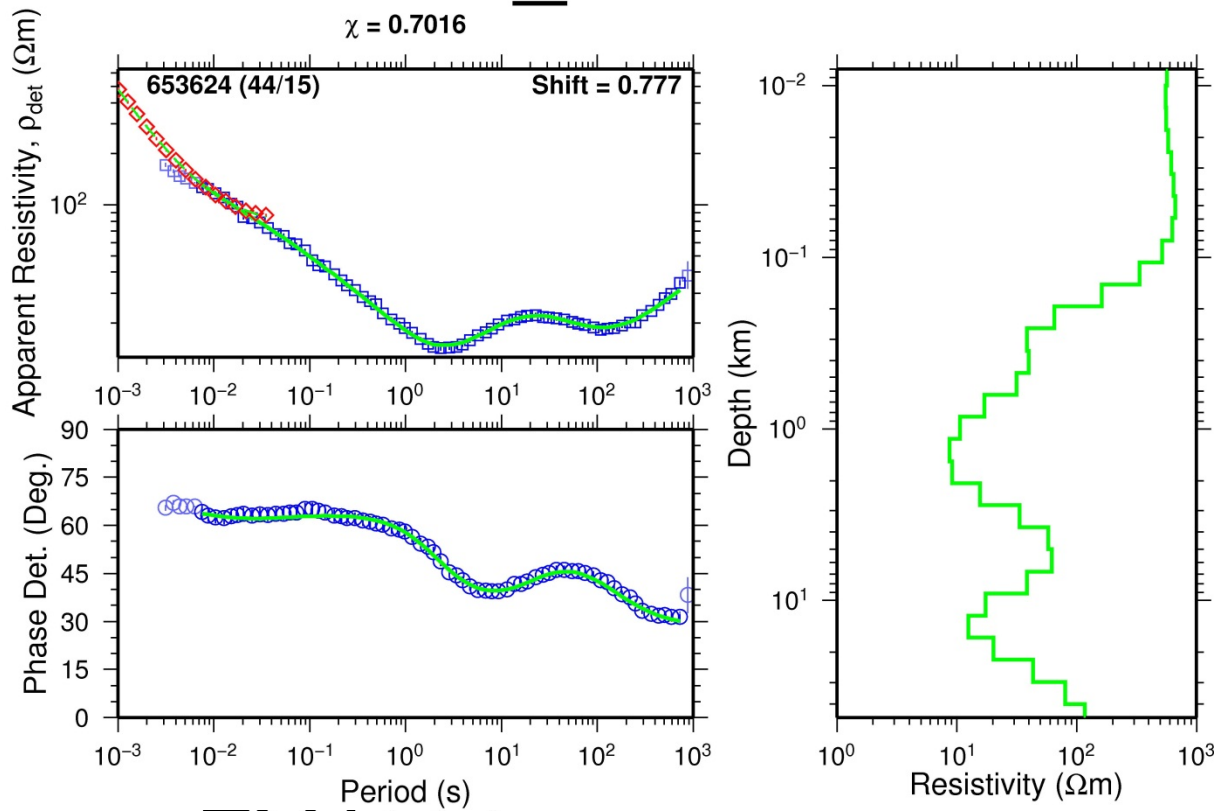
# EYJ109\_o

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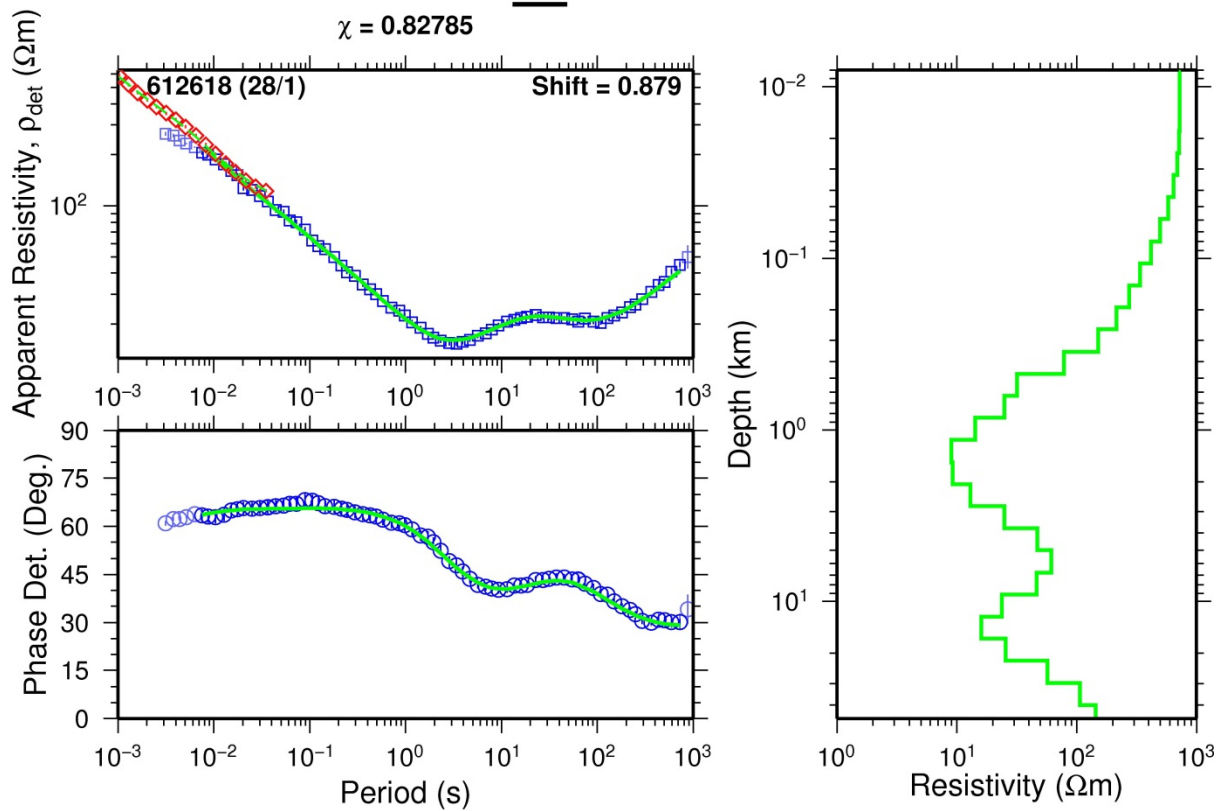
# EYJ110\_o

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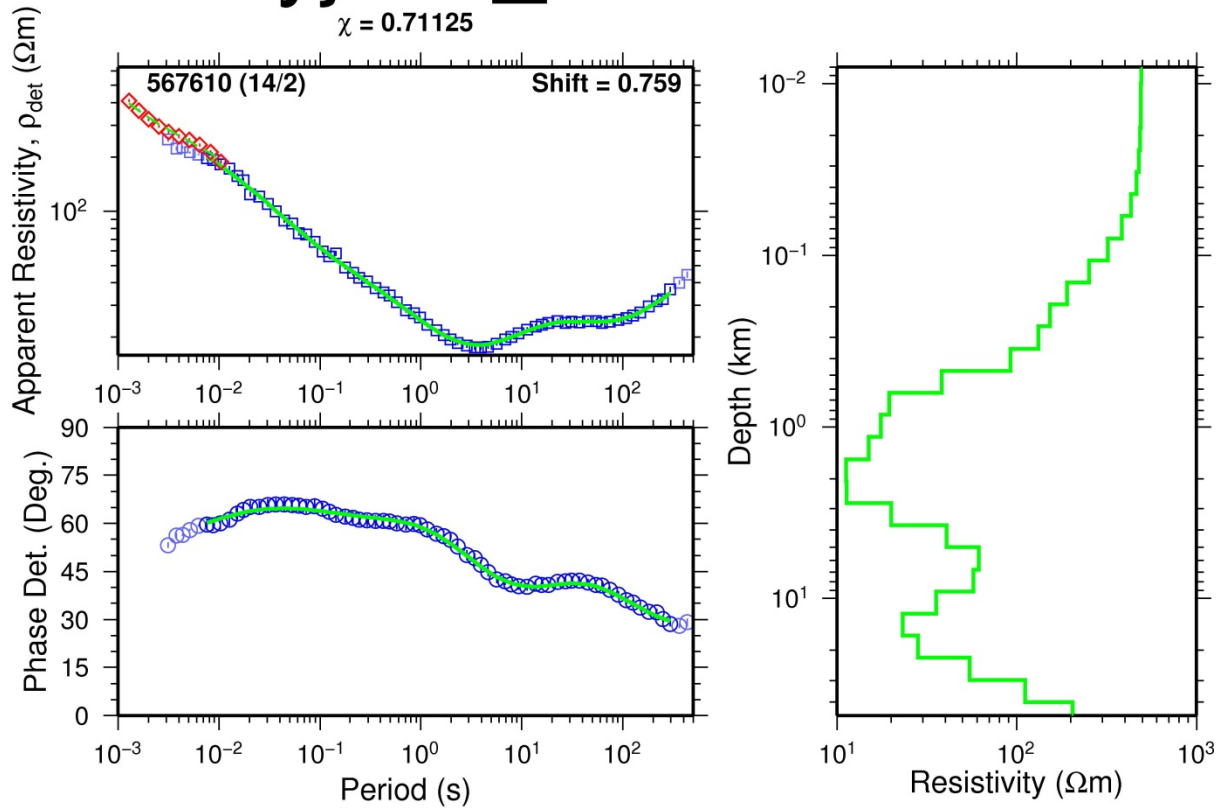
# EYJ111\_o

$\chi = 0.82785$



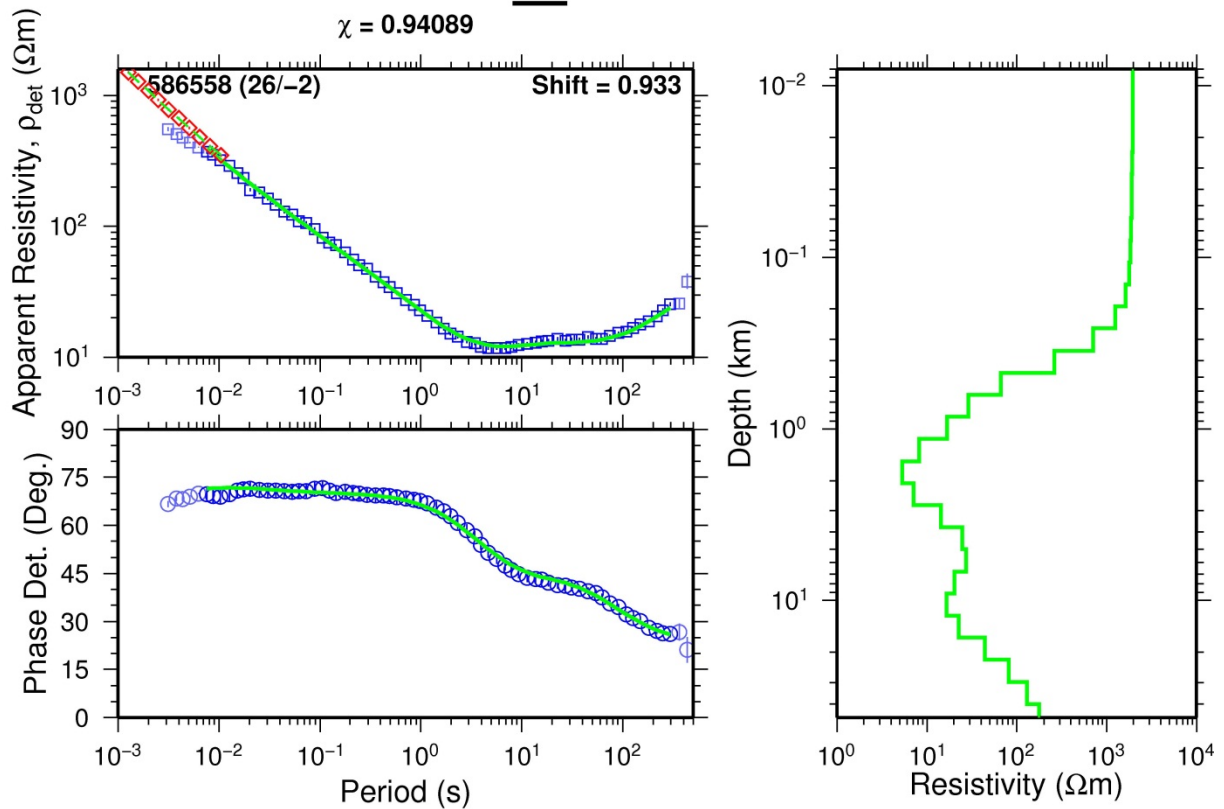
# Eyj112\_o

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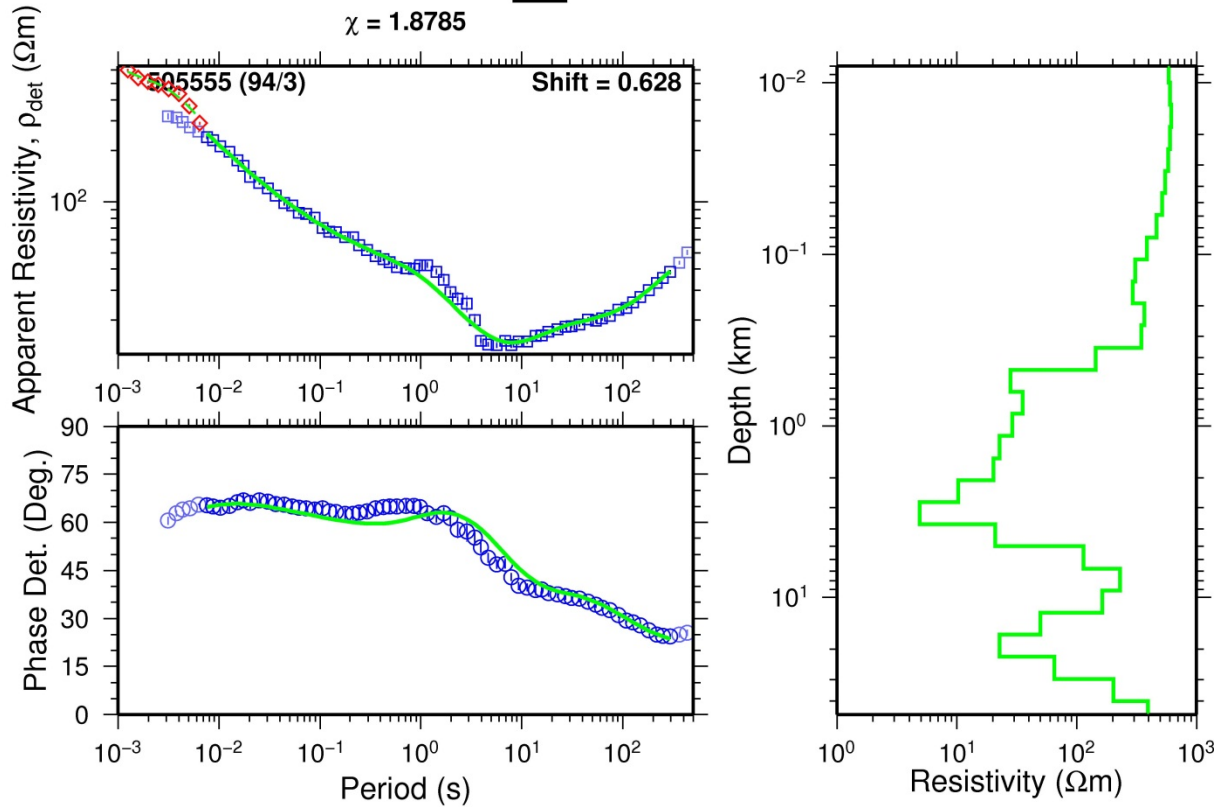
# EYJ114\_o

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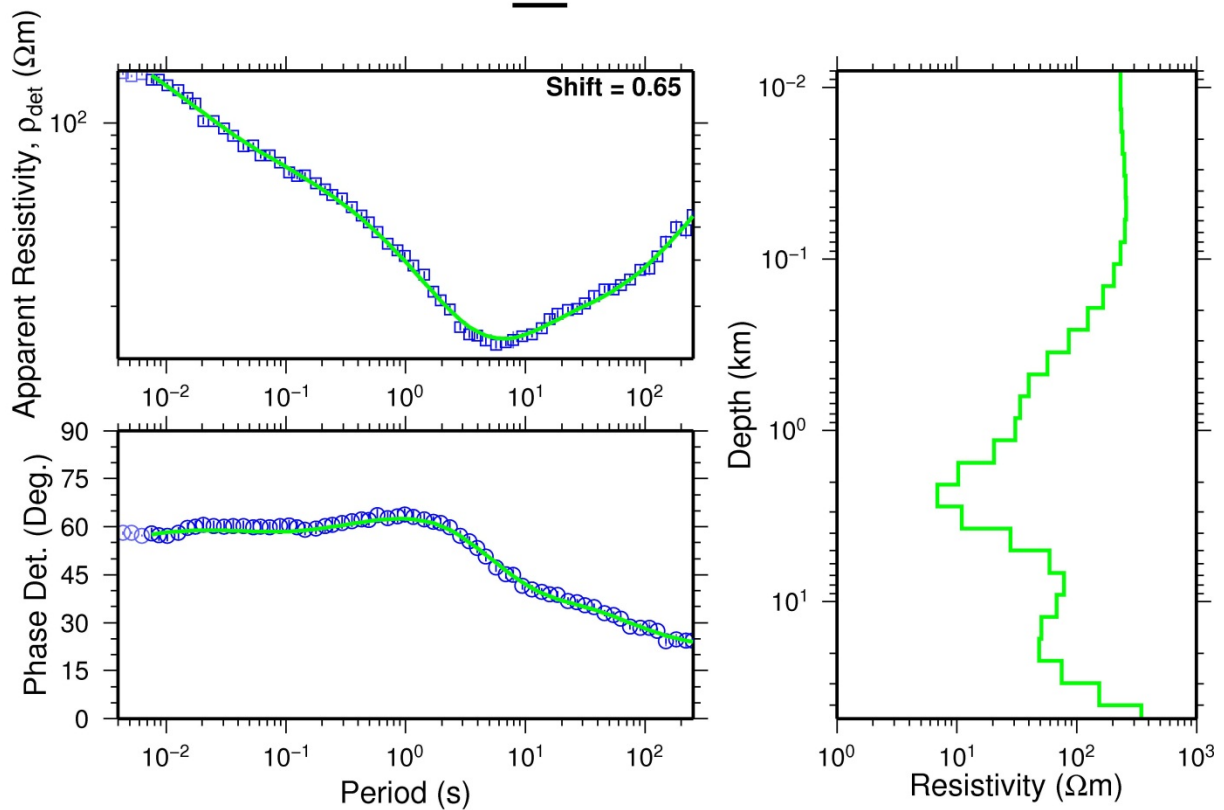


# EYJ115\_o

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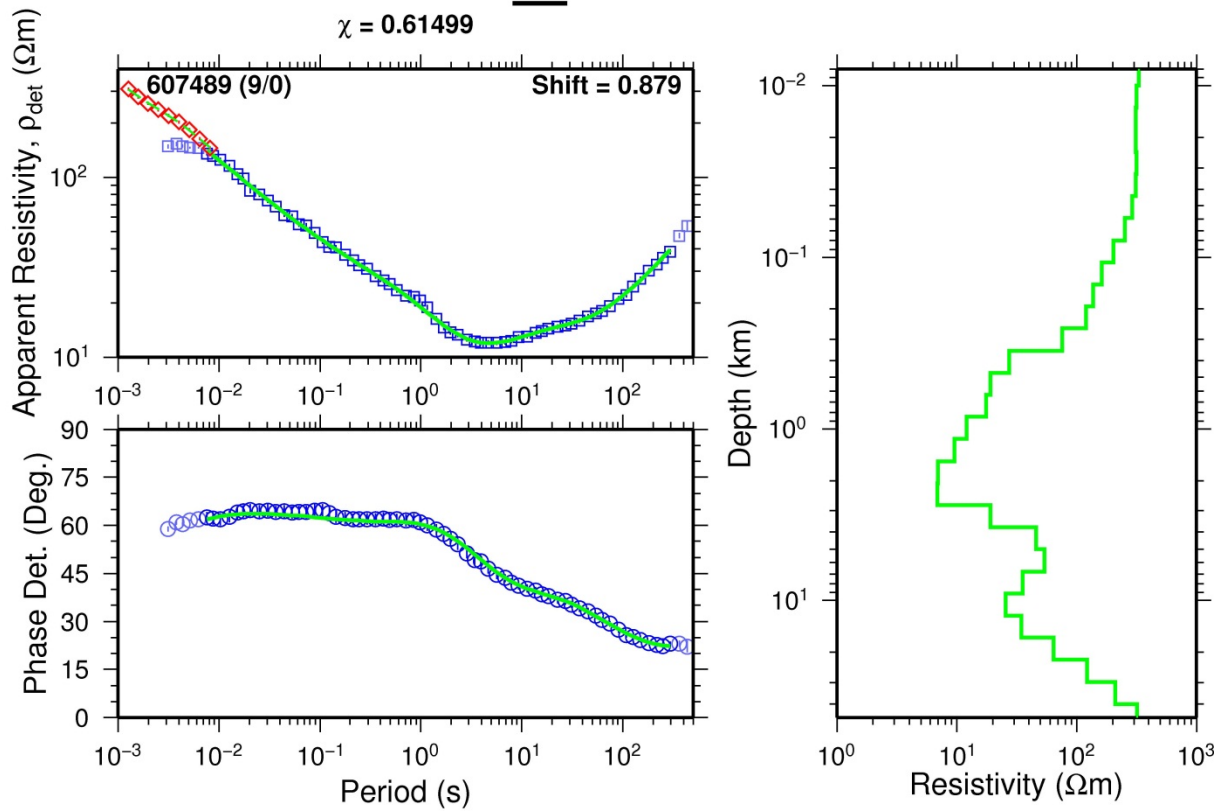


# EYJ116\_o



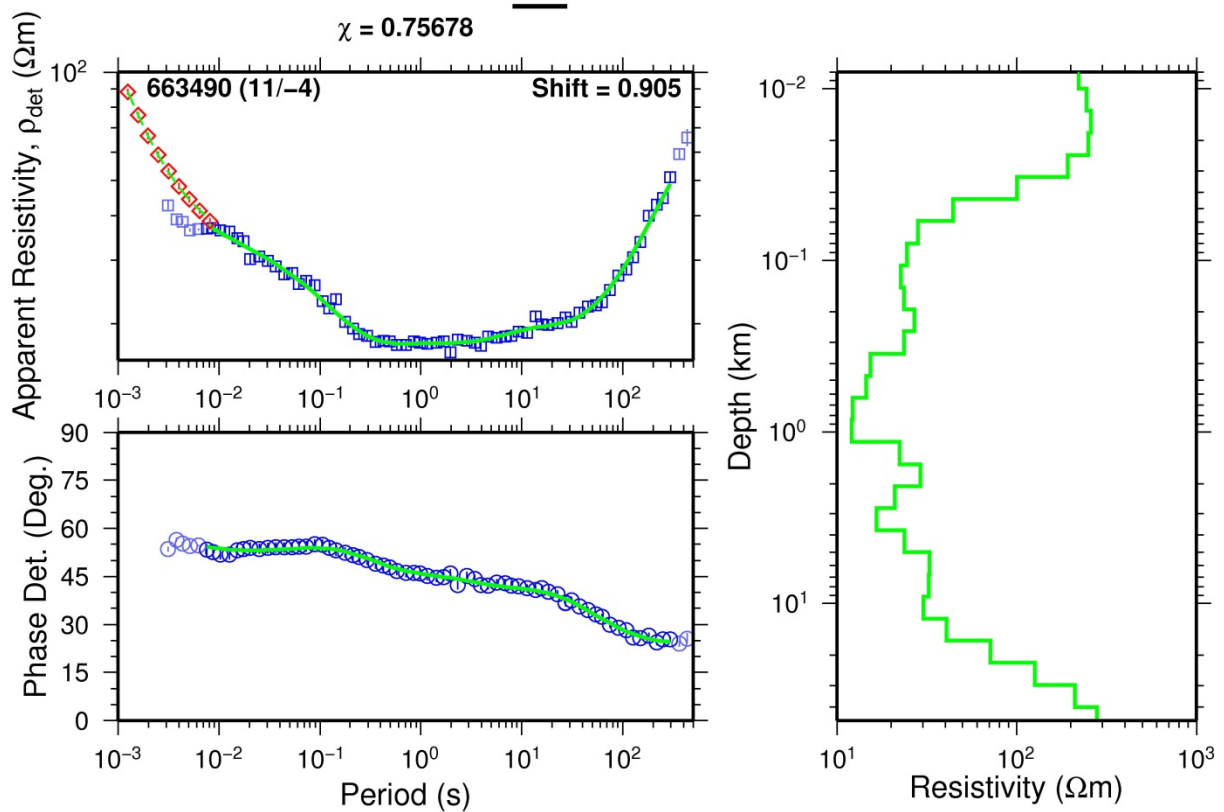
# EYJ117\_o

$\chi = 0.61499$



# EYJ118\_o

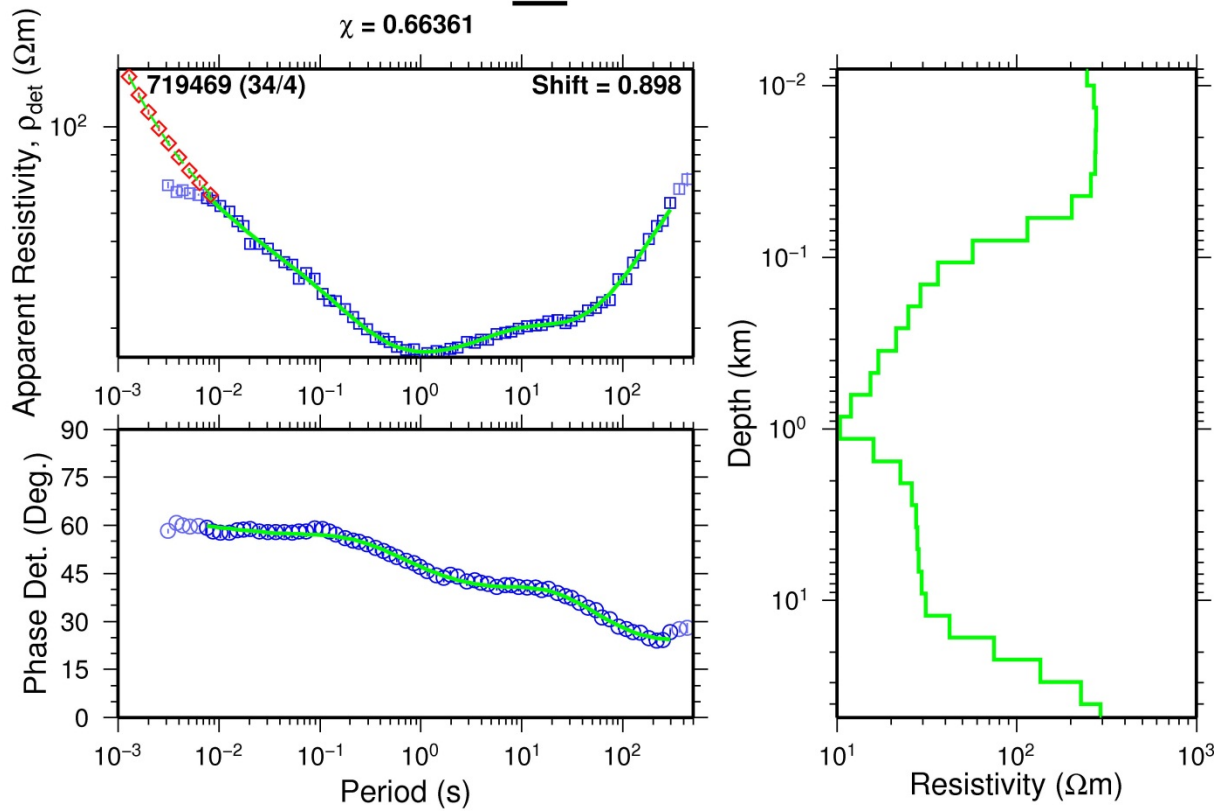
$\chi = 0.75678$





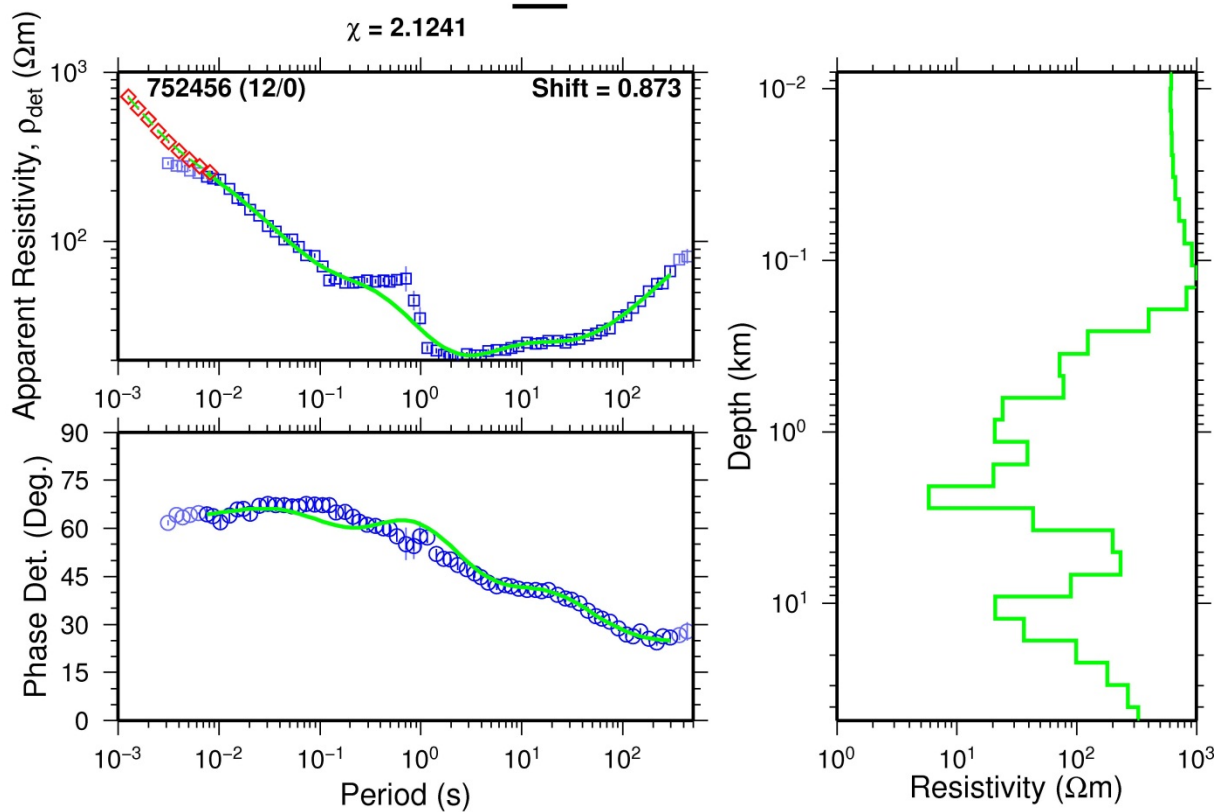
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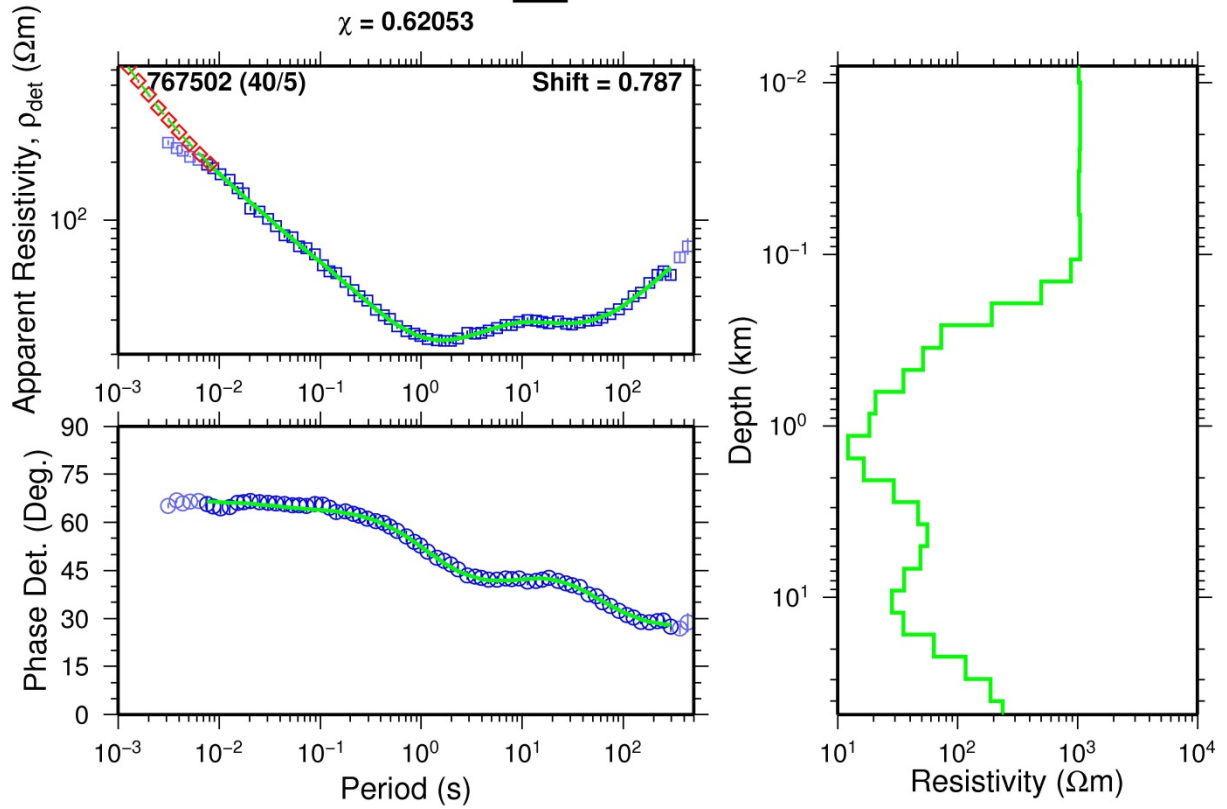
# EYJ120\_o

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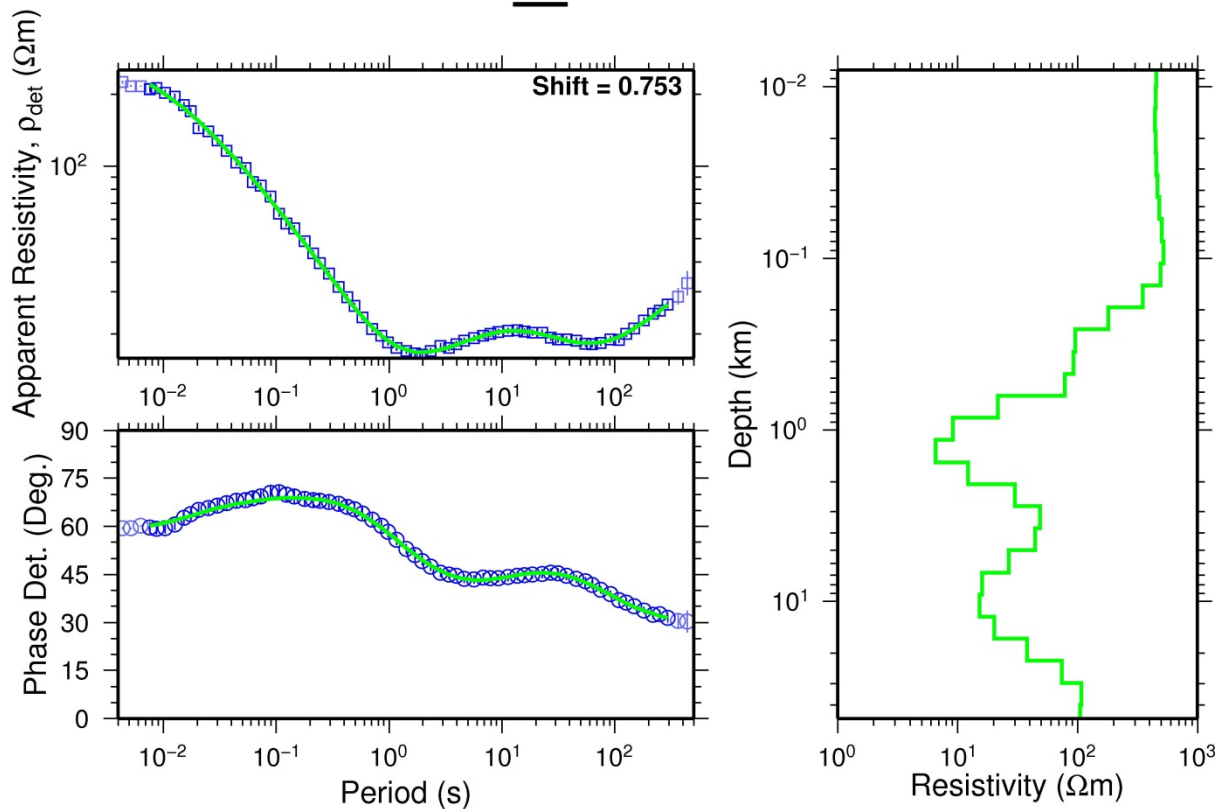


# EYJ121\_o

$\chi = 0.62053$

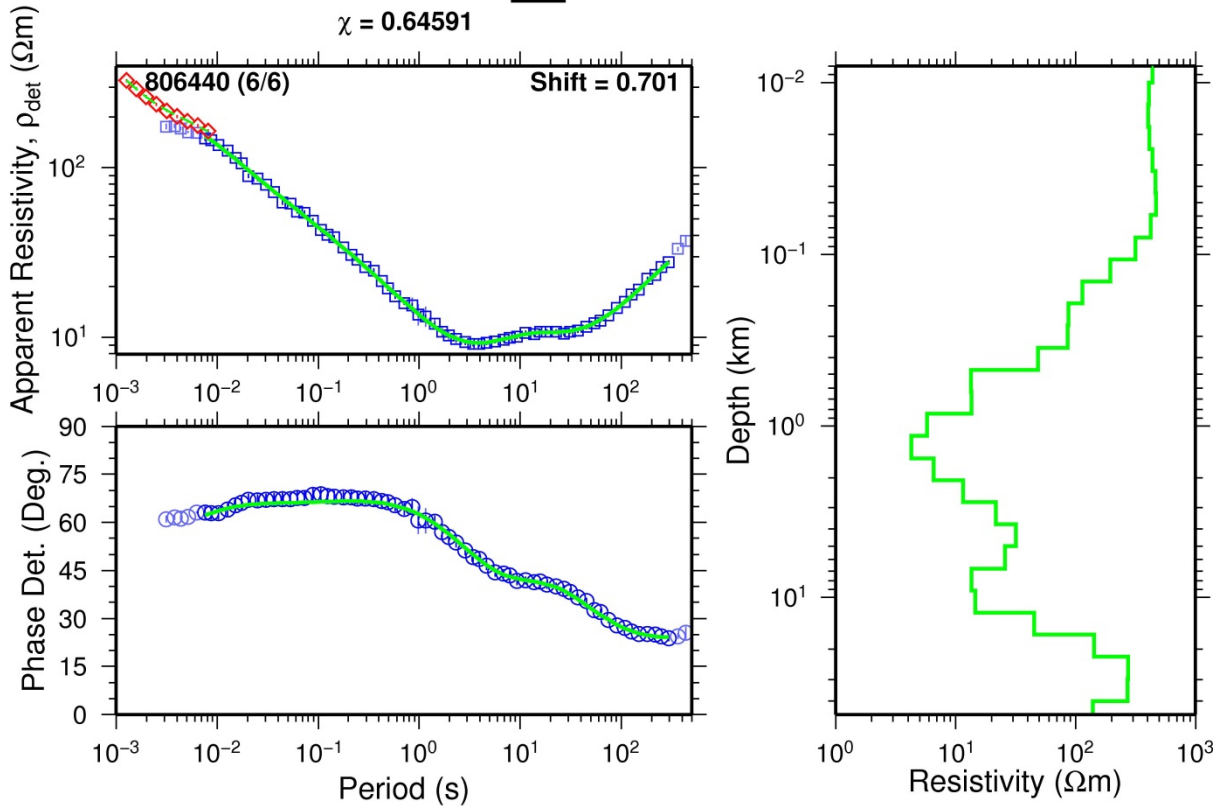


# EYJ122\_o



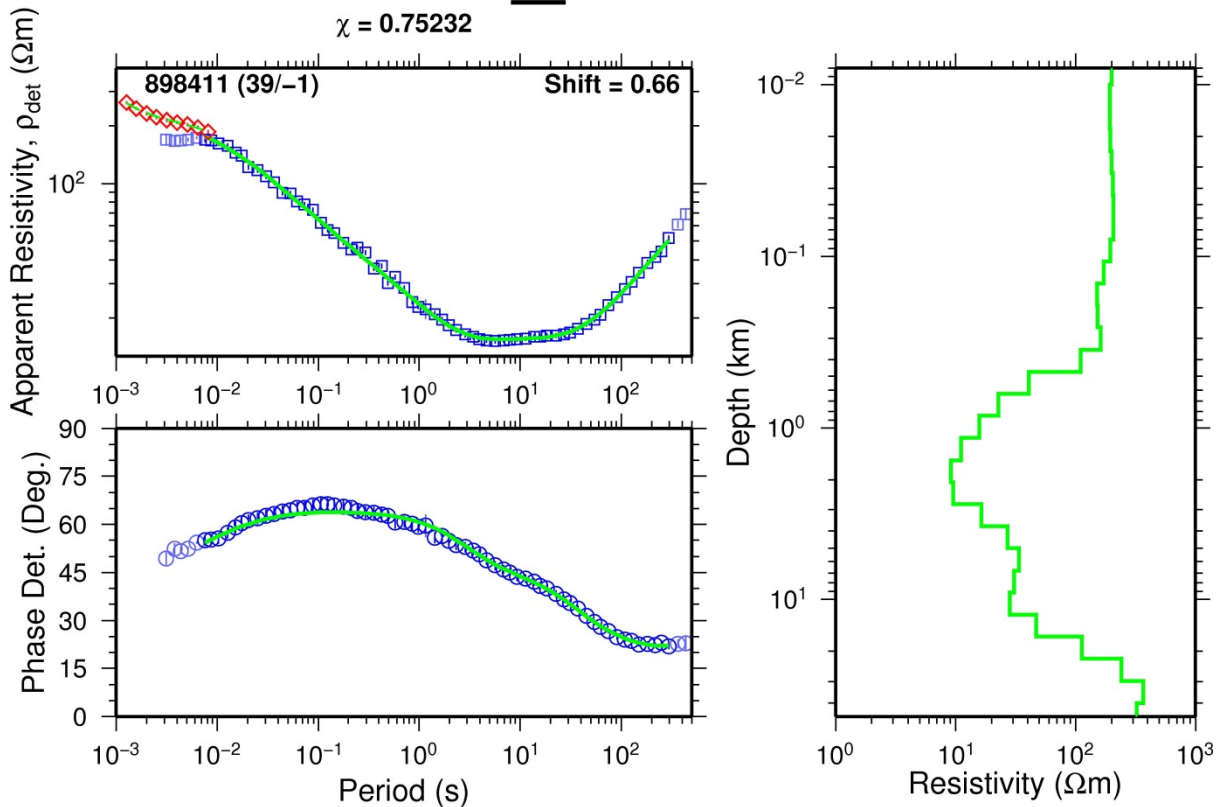
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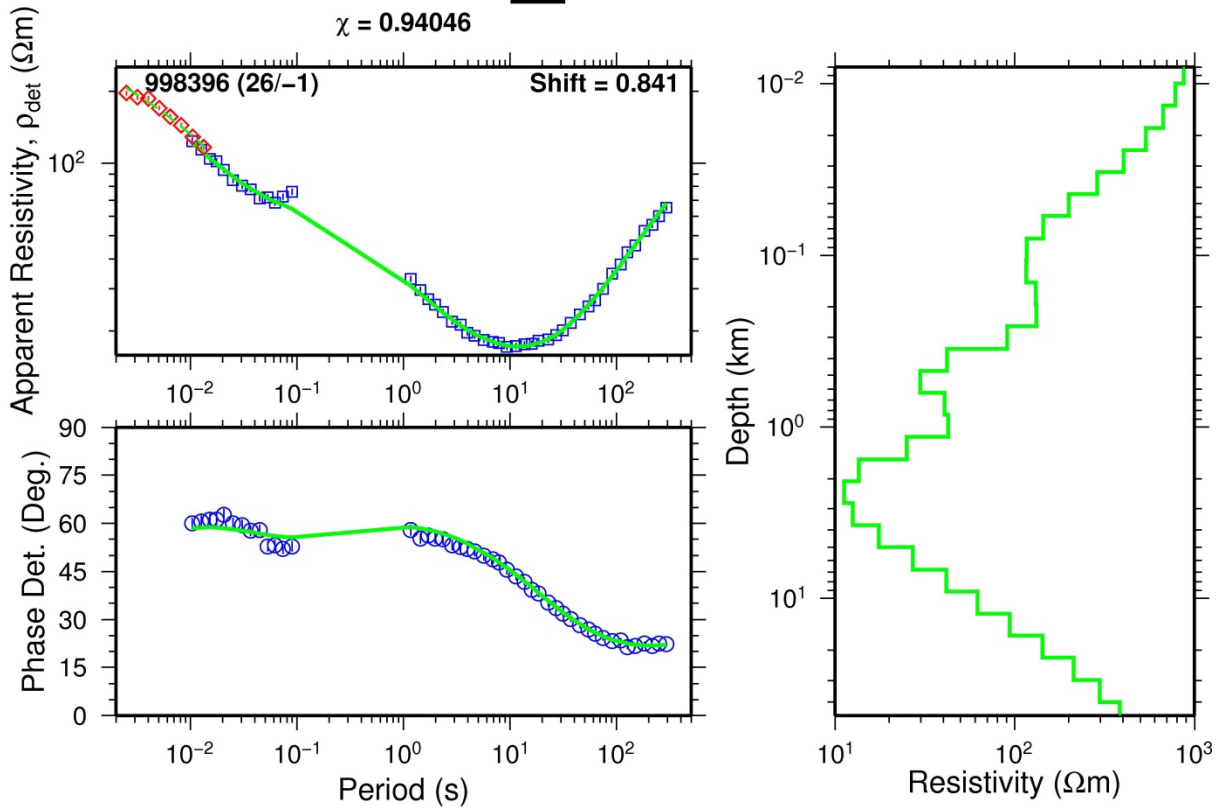
# EYJ124\_o

$\chi = 0.75232$



# EYJ125\_o

$\chi = 0.94046$



# EYJ126\_o

$\chi = 0.84869$

