Supplementary material file for

Subsurface faults and magma controls on the Jinchuan Ni-Cu Sulfide Deposit: Constraints from Magnetotelluric Data

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This supplementary material file was provided to display the data for all the observed sites mentioned in the main paper. The geographic locations of the sites are marked by red dots in Figure S1, consistent with those shown in the main text. Apparent resistivity, phase, and tipper observed data, along with the predicted curves, are presented in Figure S2. The blue and red circles with error bars represent the observed data (labeled as "obs"), while the green and yellow crosses represent the predicted data (labeled as "pred").

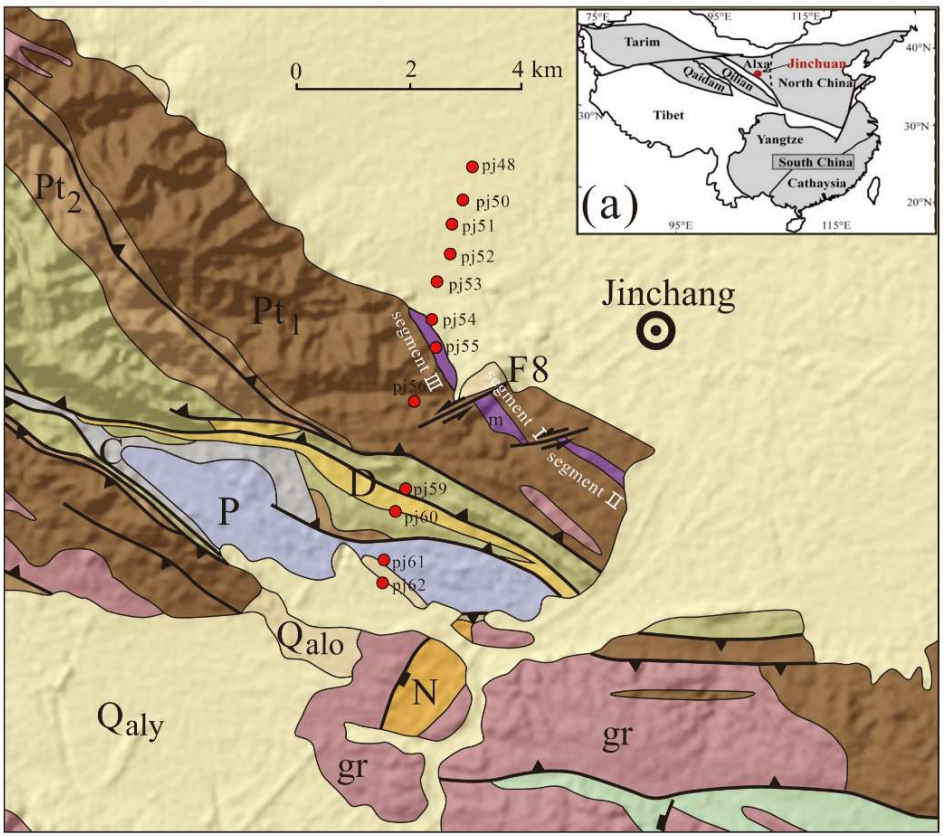
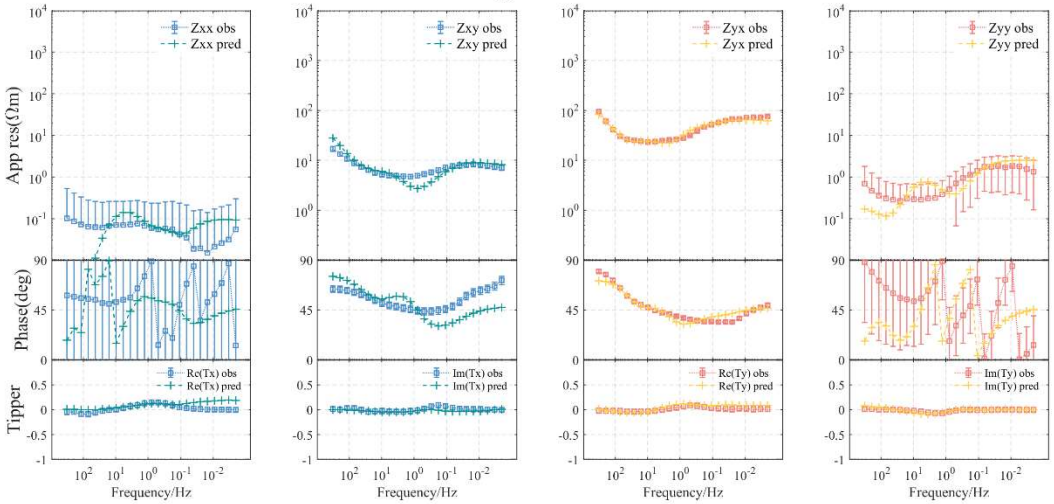
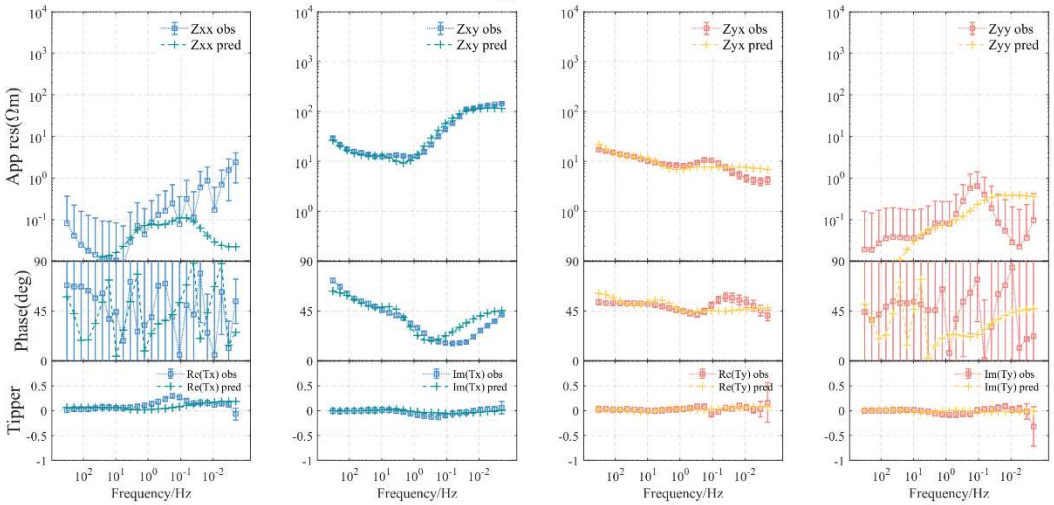


Figure S1. Simplified geological map showing the locations of MT sites.

pj48


Zxx obs
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj49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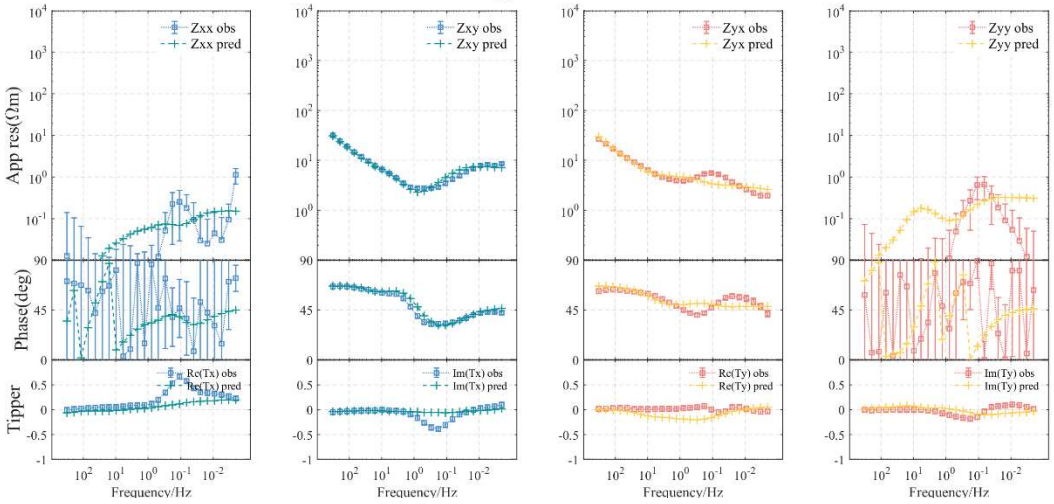
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj50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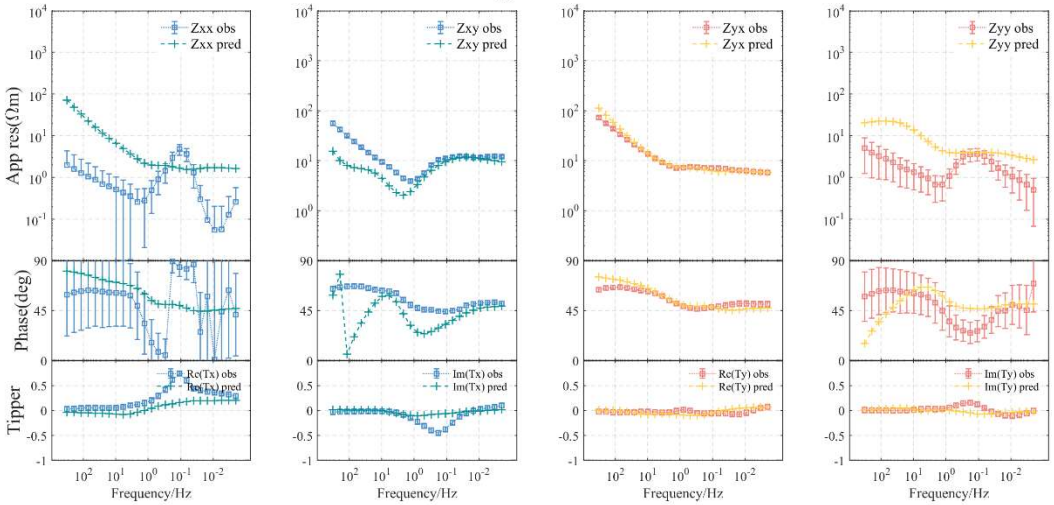
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj51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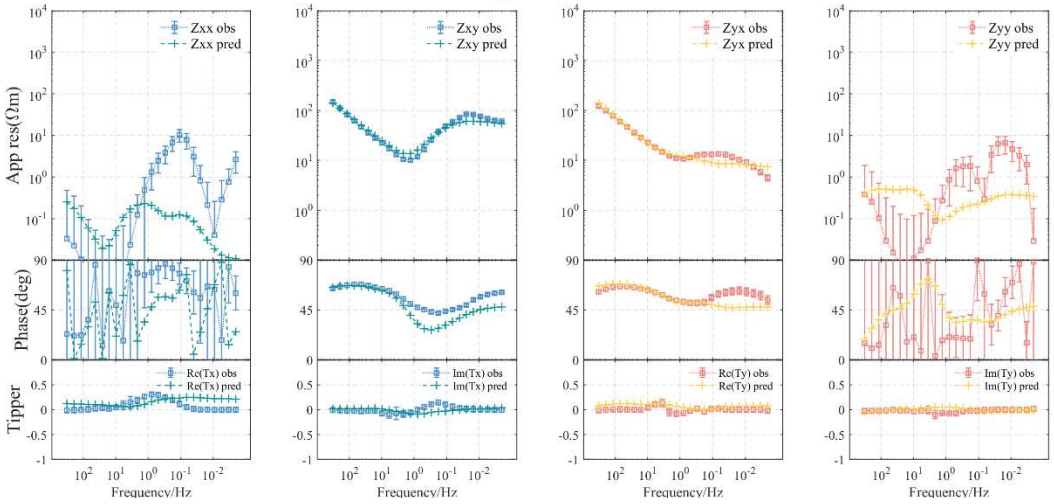
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj52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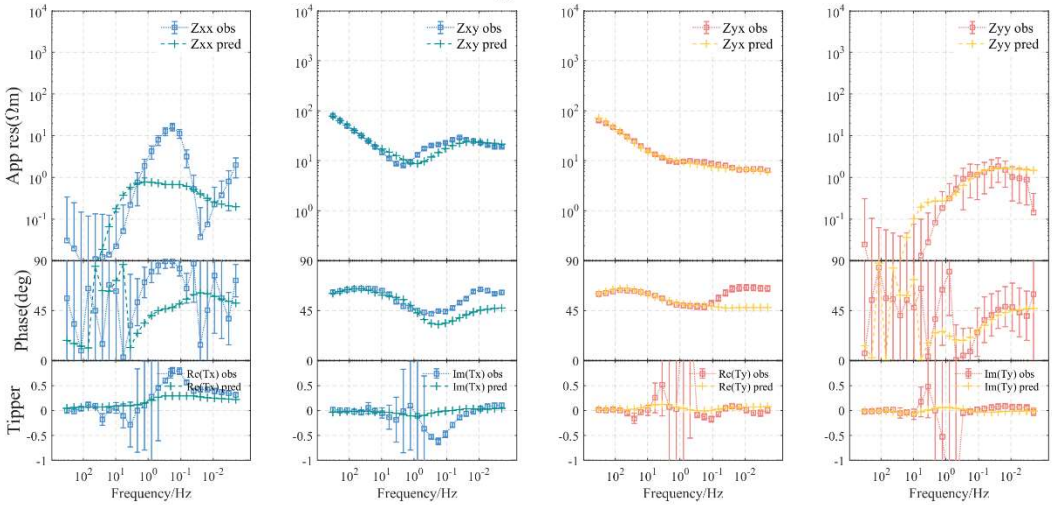
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj53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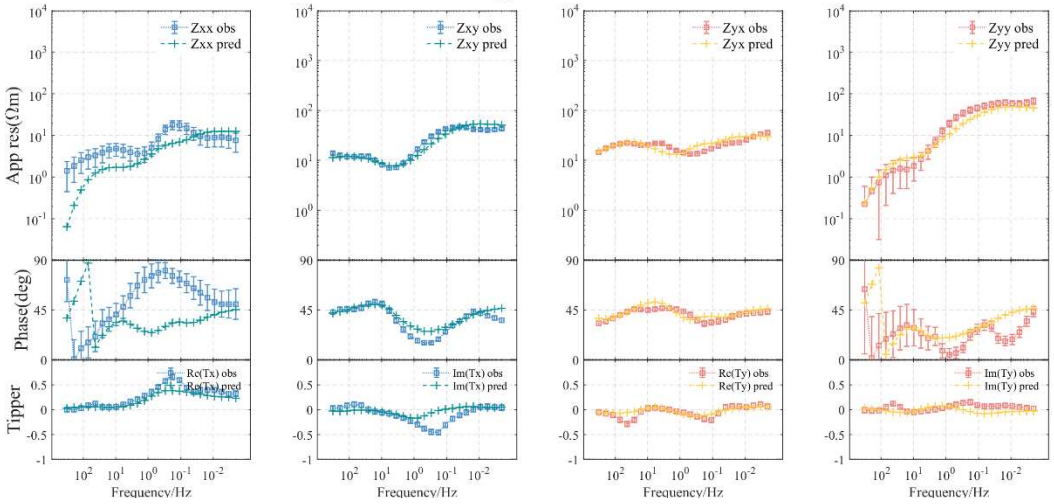
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj54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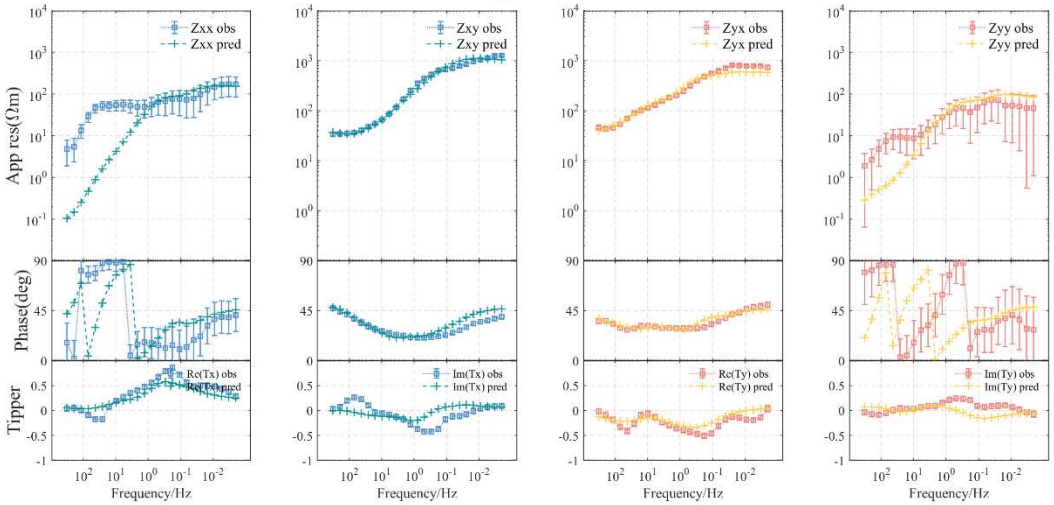
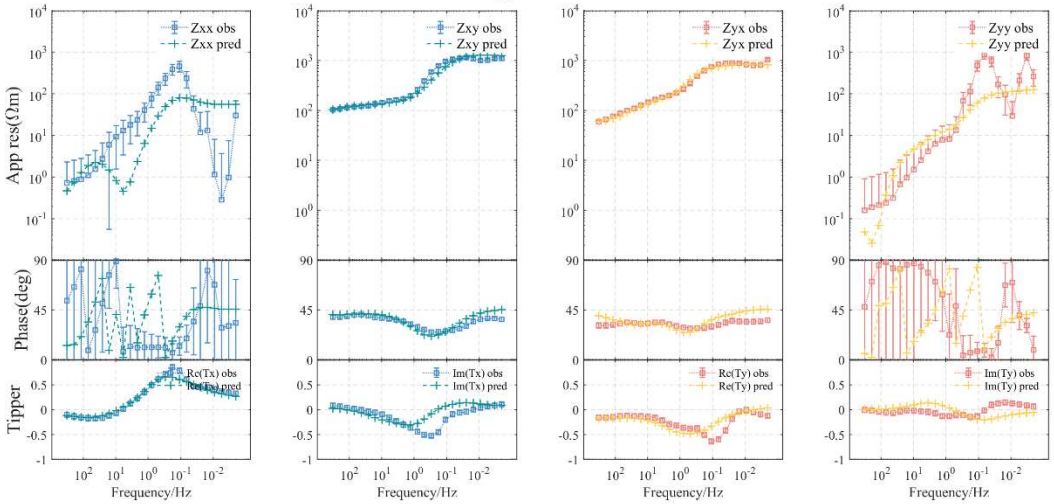
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

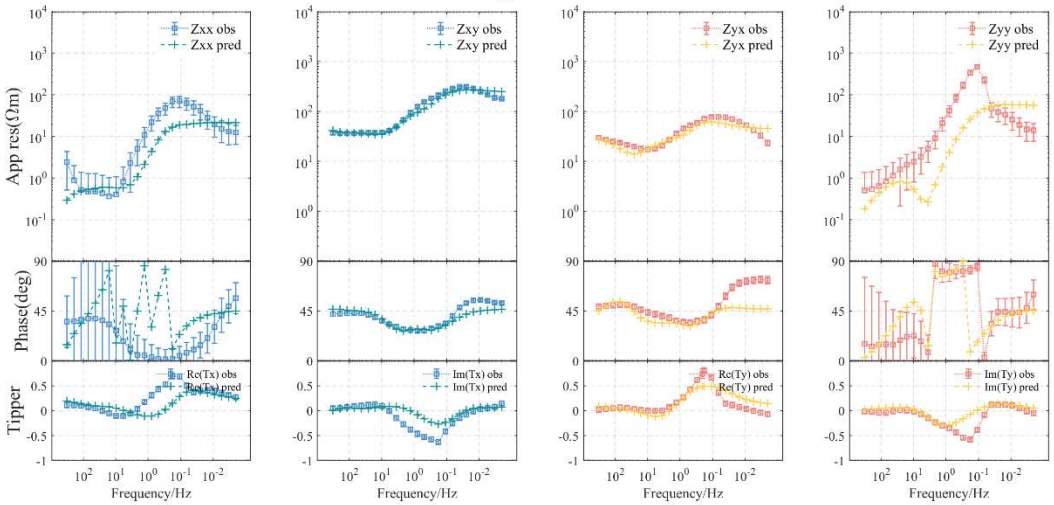
pj55


Zxx obs
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj56


Zxx obs
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
Re(Tx) obs
Re(Tx) pred
Im(Tx) obs
Im(Tx) pred
Re(Ty) obs
Re(Ty) pred
Im(Ty) obs
Im(Ty) pred
Frequency/Hz

pj59


Zxx obs
Zxx pred
Zxy obs
Zxy pred
Zyx obs
Zyx pred
Zyy obs
Zyy pred
App res(Ωm)
Phase(deg)
Tipper
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Im(Ty) obs
Im(Ty) pred
Frequency/Hz

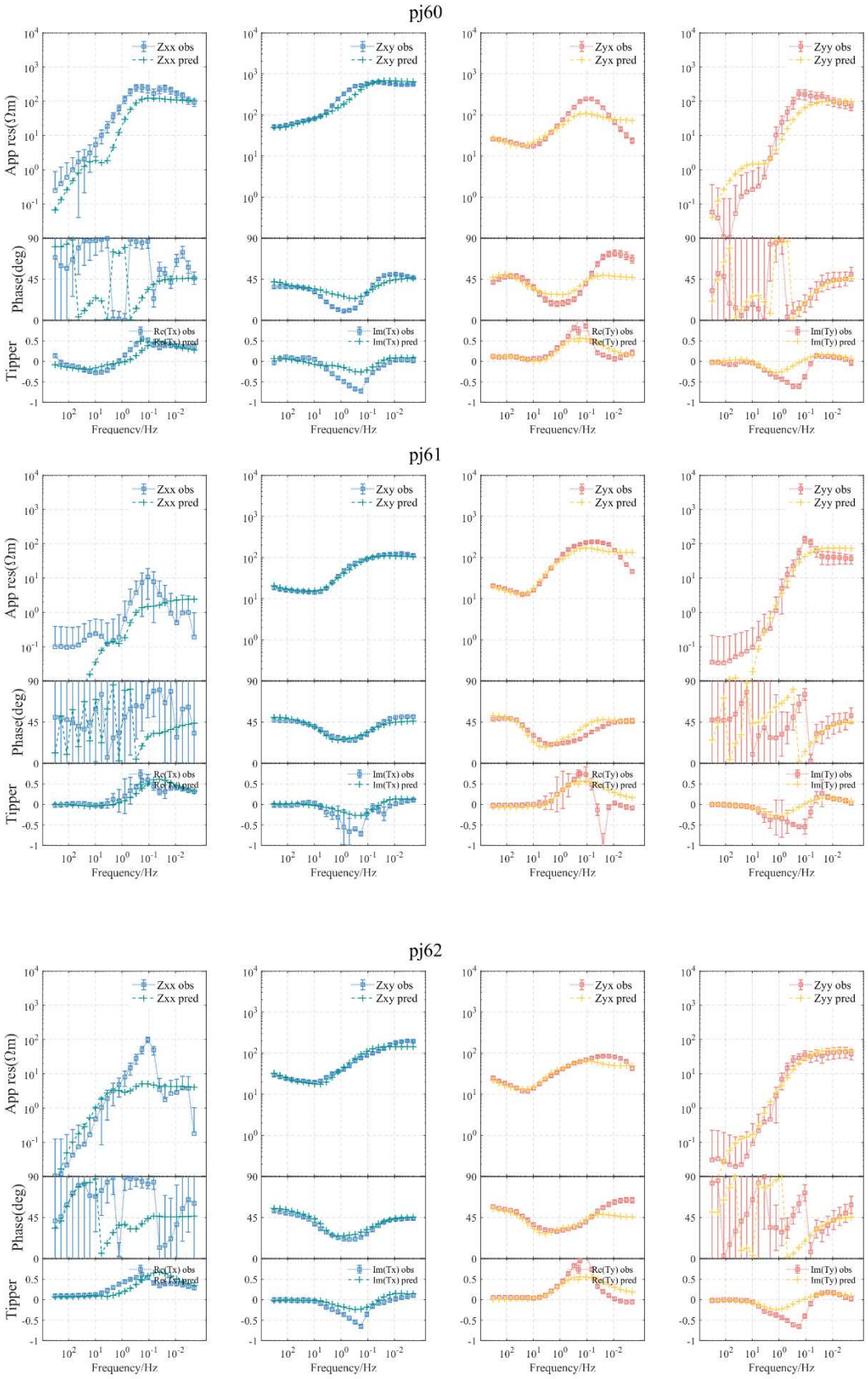

Figure S2. Apparent resistivity, phase, and VTFs (tipper) fitted curves for all sites involved in the study. The blue and red circles with error bars represent the observed data (labeled as "obs"), while the green and yellow crosses represent the predicted data (labeled as "pred").