Supplementary Information for

A Deep learning estimation for probing Depth of Transient Electromagnetic Observation

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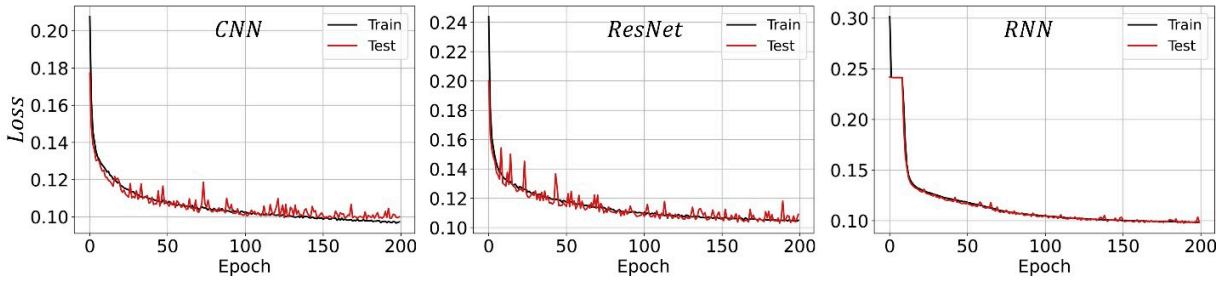


Figure S1 The evolution of the loss functions for the training and testing datasets during the training process from different DL models.

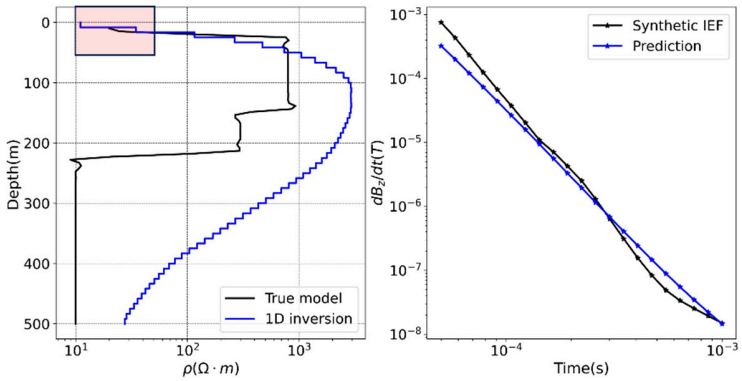


Figure S2 The 1D inverted model at 630 meters for Model II (Fig.3) (left), with data misfit (right). The red box highlights the significantly lower surface resistivity of the inversion model compared to the true model, resulting in a reduction in probing depth.

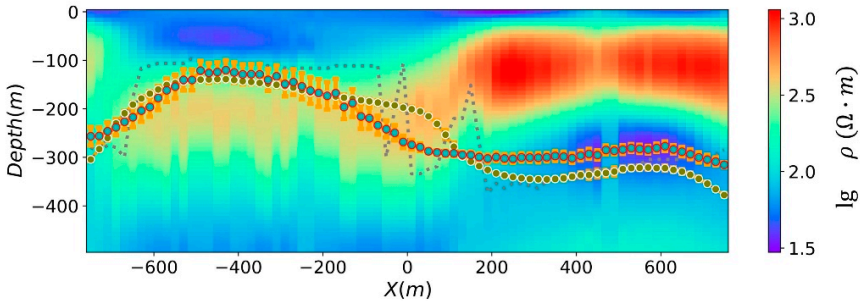


Figure S3 The probing depth derived from the 100 1D inverted model II. The curves are the same with Fig. 3d except that the cyan points shows the probing depth derived from ResNet trained without noisy training data.