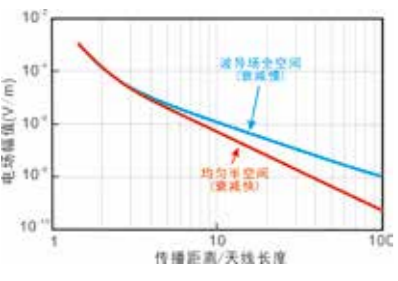
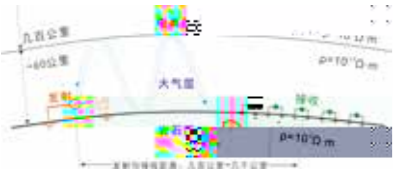


Based on the urgent need for new methods and key equipment development in deep resource exploration area, innovative researches related to theoretical improvement, technical development and exploration breakthrough were conducted by this group. The propagation characteristics of electromagnetic wave in "Ionosphere-Atmosphere-Lithosphere" was established, the method for calculating near source point-charge infinitesimal response was obtained; the high performance magnetic sensors and the Surface Electromagnetic Prospecting (SEP) system have been developed independently; and the short offset transient electromagnetic method (SOTEM) was proposed. These achievements have not only significantly increased the resolving depth of active source EM method from a few hundred meters to several kilometers, they also ensure high precision at large depth in deep exploration study with less time and low cost on a large scale. Hence, the innovative achievements of this research group has subdued the monopoly of electromagnetic equipment in China by foreign companies, encouraged national "Key Equipment Development for Deep Resources Exploration" and other major scientific projects; also made significant contributions to the development of geophysical exploration technology.



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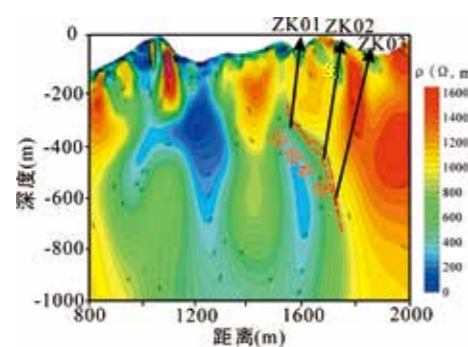
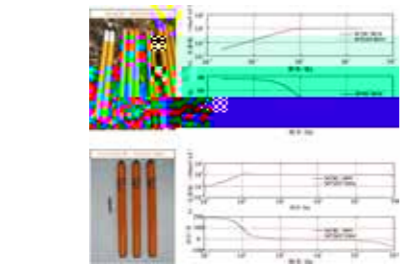
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