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GIS MINERAL RESOURCE FORECAST IN THE TUWU - YANDONG PORPHYRY COPPER BELT, EASTERN TIANSHAN MOUNTAIN

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Abstract: Takes prospecting forecast in the Tuwu - Yandong porphyry copper deposit in eastern Tianshan Mountain as an example, This paper points out the regional geology and geochemistry abnormality indicator using Geography Information System (GIS). Based on various beneficial degree analysis of anomaly prospecting, anomaly combination and number interval are confirmed to forecast preferable prospecting area. Lastly, permissible prospecting area, preferable prospecting area and potential mineral resource area are delineated, and prospecting results in the Tuwu - Yandong porphyry copper deposit are discussed.

Key words: porphyry copper deposit, GIS, mineral resource forecast, Tuwu - Yandong area, eastern Tianshan Mountain

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