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南天山东段榆树沟-铜花山巨型构造混杂带的发现及意义 [点此下载全文](#)

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摘要:

通过遥感构造综合解析, 认为南天山东段榆树沟-铜花山地区为一巨型构造混杂带。该构造带可划分为南部和北部的两带变质褶皱地层系统、中带的构造混杂系统和不同期次的岩浆侵入体。结合同位素定年和岩浆侵入的综合对比与研究, 认为该地区先后经历了五期构造运动, 分别为: ①南北向逆冲推覆, ②北西向西左行走滑, ③北西向西右行走滑, ④南北向逆冲推覆, ⑤北北西、北东向断裂。

关键词: [构造混杂带](#) [造山带](#) [遥感解析](#) [构造解析](#) [天山](#) [构造运动](#)

Discovery of Tectonic Melange Belt in the Yushugou-Tonghuashan Area and Its Significance [Download Fulltext](#)

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Abstract:

The Yushugou-Tonghuashan area is a typical example of complex structure in orogenic belt. There are varieties of geological mass formed in different high-levels and they undergone different metamorphisms. Based on a comprehensive remote sensing structural analysis, the whole district can be subdivided into three structural belts, namely southern and northern metamorphic fold stratigraphic system, central tectonic mixed system and multi-stage intrusives. Isotopic dating of metamorphics and comparative analysis of rock types, tectonic block types and the characteristics of deformation further indicate that this area experienced five tectonic stages: (1) N-S overthrusting; (2) WNW-ESE trending sinistral strike-slipping; (3) WNW-ESE trending dextral strike-slipping; (4) N-S overthrusting; and (5) NNW and NE late-stage faulting.

Keywords: [mixed tectonic belt](#) [orogenic belt](#) [remote sensing analysis](#) [structural analysis](#)

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