首页 学报简介 编委会 投稿指南 订阅指南 过刊浏览 广告投放 在线扎

杨天南, 李锦轶, 文中田, 冯晓飞, 王瑜, 孙桂华, 高立明. 中天山地块南北两缘的韧性剪切带[J]. 地质学报, 2004, 78

中天山地块南北两缘的韧性剪切带 点此下载全文

杨天南 李锦轶 文中田 冯晓飞 王瑜 孙桂华 高立明

[1]中国地质科学院地质研究所,北京100037 [2]中国冶金地质勘察总局山东局一队,淄博255200 [3]中国建材鲁木齐830002 [4]中国地质大学,北京100083

基金项目: 国家重点基础规划研究项目(编号 2 0 0 1CB40 980 0)的部分成果

DOI:

摘要点击次数: 210 全文下载次数: 140

摘要:

本文详细描述了天山中段沿乌鲁木齐一库尔勒公路后峡—乌瓦门段的构造变形特点。综合室内外观察研好及内部的乌拉斯台地区鉴别出三条规模较大的韧性剪切带:中天山北缘剪切带前人已有研究,出露宽达10km的存超糜棱岩;乌拉斯台剪切带中的糜棱岩宽超过200m,具有左行走滑运动特点;中天山地块南缘剪切带宽度达5km超糜棱岩,运动方式为左行斜冲。中天山块体南北两侧的脆性边界断层与糜棱岩带变形中心基本重合。这些剪切示天山各地质单元间目前的空间关系可能是走滑拼接的结果。研究天山造山带内剪切带的展布、运动方式、总变始位置、了解造山动力学过程具有重要意义。

关键词: 剪切带 运动学 中天山地块 糜棱岩

Ductile Shearing Zones Occurring along the Northern and Southern Boundaries of the (Block $$\operatorname{\underline{Download}}\xspace{ Fulltext}$

YANG Tiannan 1), LI Jinyi 1), WEN Zhongtian 2), FENG Xiaofei 3), WANG Yu 4), SUN Guihua 1), GAO Liming Geology, Chinese Academy of Geological Sciences, Beijing, 100037, 2) No. 1 Exploration Team, Shandong 1 Exploration and Engineering Bureau, Zibo, 255200, 3) Xinjiang Exploration Team of the China Building Center, Wulumuqi, 830002, 4) University of Geosciences, Beijing, 100083

Fund Project:

Abstract:

This paper described in detail the structural features of the central Tianshan block along I Wulumuqi-Korla highway. Basing upon field and microstructural observations, three ductile shearing Central Tianshan Block are identified. The ductile shearing zone occurred along the Northern Marg block has been studied before, and is dextral with a width up to 10km. The Wulasitai ductile sheac Central Tianshan block, and is a sinistral one, where its mylonite has a width of 200 m. The duct along the southern margin of the Central Tianshan block is presented as a lot of dioritic mylonity. Shearing criteria such as S-C fabric indicated that it is a sinistral shearing zone. The boundary define the Central Tianshan block developed along the shearing center of the northern or southern respectively. Above shearing zones must have very large strain accumulations, suggesting the amaliunits of the Tianshan range result from strike sliding in a great degree. It is significant to stukinematics and total strain accumulation of the ductile shearing zones for reconstruction of the of the Tianshan range.

Keywords: <u>ductile shearing zone</u> <u>mylonite zone</u> <u>kinematics</u> <u>Central Tianshan block</u>