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 在线拐

侯增谦, 周继荣. 三江地区义敦岛弧碰撞造山过程: 花岗岩记录[J]. 地质学报, 2001, 75(4):484-497

三江地区义敦岛弧碰撞造山过程:花岗岩记录 点此下载全文

侯增谦 周继荣

[1]中国地质科学院矿产资源研究所,北京100037 [2]地质出版社,北京100083

基金项目: 国土资源部"九五"科技攻关项目(编号95-02-001),科技部"九五"科技攻关项目(编号96-914-00

DOI:

摘要点击次数: 193 全文下载次数: 120

摘要:

义敦岛弧碰撞造山带是特提斯一喜马拉雅巨型造山带中的一个复合造山带。本文利用义敦岛弧碰撞造山带数据,结合岩石地球化学特征,建立了造山带花岗岩的时间坐标。初步识别出4套不同成因类型的花岗岩,即印花岗岩、燕山晚期A型花岗岩和喜马拉雅期花岗岩。据此,再造了造山带的形成过程与演化历史:印支期的大规形成义敦火山岩浆弧;大约自206Ma始,发生弧一陆碰撞,伴随岛弧地壳挤压收缩和剪切变形,发育同碰撞花岗。a),岛弧碰撞造山带发生造山后伸展作用,形成A型花岗岩带;喜马拉雅期发生陆内造山作用(65-15Ma),岛弧规模走滑平移,伴随喜马拉雅期花岗岩的侵位和拉分盆地的形成。

关键词: 花岗岩 成因类型 时间坐标 形成背景 岛弧碰撞造山过程 三江地区 岩浆事件

Collision-Orogenic Processes of the Yidun Arc in the Sanjiang Region: Record of Gran $\underline{Fulltext}$

HOU Zengqian, QU Xiaoming, ZHOU Jirong, YANG Yueqing, HUANG Dianhao LU Qingtian, TANG Shaohua, YU Jinji Institute of Mineral Resources, CAGS, Beijing, 100037 2) Geological Publishing House, Beijing, 100083

Fund Project:

Abstract:

The Yidun arc collision-orogenic belt is a composue orogenic belt of the giant Tethys-Himali 43 isotopic ages of 29 granite bodies in combination of their petro-geochemistries, the paper estifor the granites of the orogenic belt. Four genetic types of the granites were identified as followardly Yanshanian syn-collision granites, late Yanshanian A-type granites and Himalayan intra-cont formation and evolution were reconstructed. A large-scale Indosinian subduction-orogenesis led to magmatic arc (238-210 Ma). From about 206 Ma there occurred arc-continent collision accompanied by and shearing deformation of the arc crust and development of syn-collision granites. In the late post-orogenic extension came into action and resulted in the generation of A-type granites. During intra-continental orogenic movement a large-scale strike-slip thrusting induced the intrusion of pull-apart basins.

Keywords:: granite genetic types time coordinate formation environment arc collision-orogeni