

adamellite and monzonitic granite.

Conclusions: Charong—Ding’ou composite granites should be the same age with different stages complex rock mass, and early state is Type I quartz diorite and bio-adamellite with Type S monzonitic granite in late state. The compound rock mass is not from a single subduction environment and monzonitic granite may be from arc continental collision.

Keywords: Gangdese belt; composite granites; quartz diorite; monzonitic granite; back-arc fault uplift area; Crust—mantle mixing; arc—continent collision

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