Accepted Manuscript

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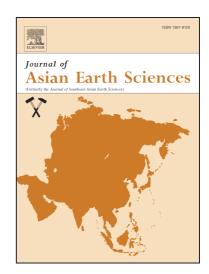
PII: S1367-9120(16)30219-X

DOI: http://dx.doi.org/10.1016/j.jseaes.2016.07.015

Reference: JAES 2760

To appear in: Journal of Asian Earth Sciences

Received Date: 12 April 2016 Revised Date: 4 July 2016 Accepted Date: 14 July 2016



Please cite this article as: Liu, H., Wang, Y., Zi, J-W., Petrogenesis of the Dalongkai ultramafic-mafic intrusion and its tectonic implication for the Paleotethyan evolution along the Ailaoshan tectonic zone (SW China), *Journal of Asian Earth Sciences* (2016), doi: http://dx.doi.org/10.1016/j.jseaes.2016.07.015

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ACCEPTED MANUSCRIPT

Petrogenesis of the Dalongkai ultramafic-mafic intrusion and its tectonic implication for the Paleotethyan evolution along the Ailaoshan tectonic zone (SW China)

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Abstract:

Layered ultramafic-mafic intrusions are usually formed in an arc/back-arc or intra-plate tectonic environment, or genetically related to a mantle plume. In this paper, we report on an ultramafic-mafic intrusion, the Dalongkai intrusion in the Ailaoshan tectonic zone (SW China), whose occurrence is closely associated with arc/back-arc magmatic rocks. The Dalongkai intrusion is composed of plagioclase-lherzolite, hornblende-peridotite, lherzolite and wehrlite at the bottom, cumulate plagioclase-pyroxenite at the middle part, changing to fine-grained gabbro

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