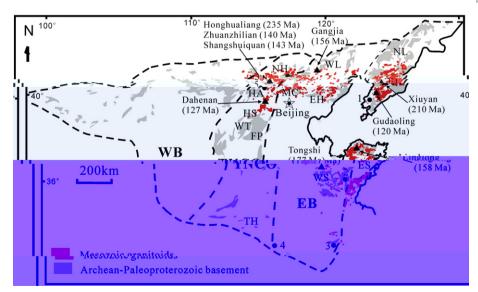


#### 1. Introduction

## 2. Geological setting



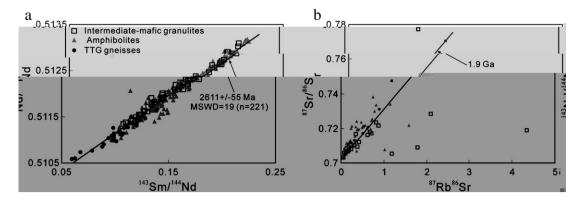
e i erelle ifi r e le rel le e  $e = \mathcal{A}(r) \times \mathcal{A}(r), \quad r \in \mathcal{A}(r) \times \mathcal{A}($ e le r r e re. e rel le r , re е. e la relation de la r eele er le rer , e. . , e r , t r , , e r e t , , , , , , t r  $^{-1}$  e Lerre elerr, erle llift e.ee erreeerre. re le e e e e e e re re

#### 3. Granulite terrains

## 4. Lower crustal xenoliths

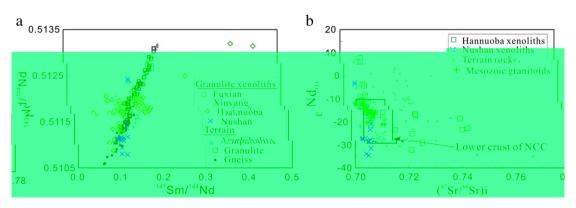
4.1. Xenoliths and zircon xenocrysts in Paleozoic kimberlites (Mengyin and Fuxian)



re fire e, e , leste le le releste ee r l e e e r e e r ет e e rr , , , e , e , , ere le lfi r er err e e me firee e i e i r e i err r lere r e rere e , lle l e re e rr . e e . e . . . . . . le . . . . . ...e e rel err.e. e e. fie fi e reele le lige fige

### 4.3.2. Nushan

# 5. Mesozoic intermediate-felsic igneous rocks



### 6. Discussion

## 6.1. Timing of lower crust formation

- l, e e l e l e l e l , l , l , e l , r , l e reem l..., e. l. errie . le r, r , e , r , e , . Let  $\Gamma$  ,  $\Gamma$  ,  $\Gamma$  ,  $\Gamma$  ,  $\Gamma$ e e rei reerreer. Let e let e reconstruct e reconstruction e reconstruction e let e let e let e let e reconstruct e reconstruct e let e reconstruct e reconstruct e reconstruction e rec er eel er e re le re

# 6.2. Composition of the lower crust

, e , ,  $\mathbf{r}$  , le , , , ,  $\mathbf{r}$  , e , , e , e ,  $\mathbf{e}$  ,  $\mathbf{r}$ . If every equation is the every equation of the every equation ( ) and th e e re , e. e.r, r. l. e. . . , r. . l. r. . . , l. e. e.e. . . . , e. err er err e er err  $e r \cdot c$   $e \cdot c$   $e \cdot c$   $e \cdot c$  $= <, \qquad \qquad \text{fig.} \quad \text{i.e.} \quad \text{i.e.} \quad \text{e.} \quad \text{e.}$ 

lere.rr re rr .... er.r. err e ere ere er er er

er. e e er. er # fil. er. r. e er. ee e e . . . . e e l r e l e r r . . . r . . e . e e . # ere lee e r. l. eee e , e . . . , l. eee e . l . e de la cela de la cela recenta e la crista de la compansión de la compans e .et . t., e. . t. e., e r.r.eee e . , tr.er., . t., e e la e - la la e la la rae l , rer., r. . . . . . . . fil. . . . . e ,  $\mathbf{r}_{i}$ e e a a rr

#### 6.3. Sr-Nd-Hf isotopic compositions of the lower crust

rere e eriz eerree erroee r, r , e , r , e ,  $e = \{ 1, 2, \mathfrak{E} \mid e \in \mathbb{R}, 1, e \in \mathbb{R} \mid e \in \mathbb{R} \}$ 

e.i.e.e.t.e.err...e.rr...e
ere.ie.ifi.r.e...e.r...e.rr...e
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# Acknowledgments

### References

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