A Big Earth Data Platform for Three Poles

**Carbon and oxygen isotopic features of marine carbonate rocks from the Wat Mong Kratae section in western Thailand (470-467 Ma)**

1、Description

Carbon cycle is controlled by relative changes in carbon fluxes of global atmosphere, hydrosphere, lithosphere, and biosphere. During the geological history, carbon isotope excursions usually occur in the critical period. Carbon isotope positive excursions are recognized to be related to abundant organic burial or enhanced primary productivity. Ordovician δ13Ccarb curves from China have been established, but the isotopic patterns in different sections and regions can be quite different. Before the use of δ13Ccarb records to facilitate high resolution correlation, it is necessary to conduct sedimentary facies and diagenesis analyses and compare numerous isotopic records on a global scale, in order to learn the global versus local contribution in a δ13C record. 100 geochemical samples were collected from the Dapingian Tha Manao Formation for carbon and oxygen isotopic analyses, in order to reveal carbon cycling process in northern margin of Gondwana continent and alternation of carbon isotopic records during diagenesis. This dataset includes 100 carbon and oxygen isotopic records.

2、Keywords

Theme：Formation,Geochemistry,Carbon isotope
Discipline：Solid earth
Places：western Thailand
Time：middle Ordovician

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：0.081MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：14.43 | - |
| west：99.01 | - | east：99.01 |
| - | south：14.43 | - |

5、Time frame:None--None

6、Reference method

References to data:

FANG Xiang , CHEN Zhongyang, LI Chao , LI Wenjie . Carbon and oxygen isotopic features of marine carbonate rocks from the Wat Mong Kratae section in western Thailand (470-467 Ma). A Big Earth Data Platform for Three Poles, doi:10.11888/SolidEar.tpdc.2722292022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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