CHEN Jie

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Date of Birth: 5th, January 1993
Nationality: China
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FIELD OF SCIENTIFIC INTERESTS

Marine geoscience; Mid-ocean Ridges; Seafloor and lava morphology; Seismicity and lithosphere structure; Numerical thermal modelling; Magmatic plumbing system; Oceanic detachment fault; Hydrothermal activity; Geological mapping.

HIGHER EDUCATION

Ph.D. student, Marine Geoscience, Institut de Physique du Globe de Paris, 2018-present
Thesis title (in progress): *The impact of MELT SUPPLY on fault distribution, volcanism, and the thermal regime at ultraslow spreading ridges*
Advisor: Dr. Mathilde Cannat.

MA. Eng., Marine Geophysical, Second Institute of Oceanography, MNR, 2015-2018
Thesis: *Segmentation and melt supply along the Southwest Indian Ridge between the Indomed and Gallieni transform faults (46°-52°E)*
Advisors: Dr. Chunhui Tao, Dr. Huaiming Li and Dr. Tao Zhang.

B. Eng., Geophysical, Ocean University of China, 2011-2015
Thesis: *Response of Oceanography and Mineral Enrichment - A Study of Polymetallic Nodules*
Advisor: Dr. Xiaodian Jiang.

PUBLICATIONS

1. **Chen J**, Cannat M, Tao C, Sauter D, and Munschy M. 780 thousand years of upper-crustal construction at a melt-rich segment of the ultraslow spreading Southwest Indian Ridge 50°28'E. https://doi.org/10.1029/2021JB022152.
2. **Chen J**, Crawford W C, and Cannat M. Microseismicity of nearly-amagmatic flip-flop detachment fault system at an ultraslow spreading ridge. (in prep; poster and video)
3. **Chen J**, Olive JA, and Cannat M. Melt supply control on thermal structure of an ultraslow spreading magmatically-robust endmember. (in prep)
4. **Chen J,** Zhang T, Cannat M, Tao C, and Li H. Enhanced magmatism and segmentation at the ultraslow spreading Southwest Indian Ridge between 46°E and 53°E. (in prep)
5. **Chen J**, Tao C, Liang J, Liao S, Dong C, Li H, Li W, Wang Y, Yue X, and He Y. 2018. Newly discovered hydrothermal fields along the ultraslow-spreading Southwest Indian Ridge around 63 E. Acta Oceanologica Sinica, 37(11), pp.61-67. https://doi.org/10.1007/s13131-018-1333-y.

CONFERENCES

1. **Chen J**, Crawford W C, and Cannat M. Microseismicity constraints on brittle lithosphere thickness at a nearly amagmatic spreading corridor of the ultraslow Southwest Indian Ridge. AGU Fall Meeting, 2020. (poster)
2. **Chen J**, Cannat M, and Tao C. 780-thousand years of volcanic seafloor accretion at a melt-rich segment of the ultraslow-spreading Southwest Indian Ridge 50°28'E. AGU Fall Meeting, 2019. (poster)
3. **Chen J**, and Cannat M. Construction of the volcanic upper crust at a melt-rich segment of the ultraslow-spreading Southwest Indian Ridge. Congrès des Doctorants, Paris, March 25-29, 2019. (poster)
4. **Chen J**, Li H, Zhang T, et al., Segmentation and melt supply along the ultraslow-spreading Southwest Indian Ridge (46°E to 52°20’E). China Oceanography Academy, Qingdao, October 31, 2017. (poster)
5. **Chen J**, Li H, Zhang T, et al., Characteristics and mechanisms of magma supply along Southwest Indian Ridge between 46°E and 52.3°E. Chinese Geophysical Union Fall meeting, Beijing, October 15-18, 2017. (oral presentation)

SEA-GOING EXPERIENCE

Pourquoi Pas? Momarsat19 at Mid-Atlantic Ridge, June 10-July 4, 2019
XueLong icebreaker, trial at the Pacific, July 7-14, 2017

RELEVANT SKILLS & OTHERS

Computer Skills: GMT (professional), Global Mapper, MATLAB, Python, SEISAN
Language: English (fluent), Chinese (native), French (beginner)
Hobby: Kungfu (professional)