

Accepted Manuscript

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PII: S0924-7963(17)30178-1

DOI: <https://doi.org/10.1016/j.jmarsys.2018.02.003>

Reference: MARSYS 3053

To appear in: *Journal of Marine Systems*

Received date: 16 April 2017

Revised date: 19 January 2018

Accepted date: 5 February 2018

Please cite this article as: Bing Li, Xuefa Shi, Jixin Wang, Quanshu Yan, Chenguang Liu, the DY125-21 (Leg 3), DY125-22 (Legs 2–5) and DY125-26 (Leg 3) Science Parties , Tectonic environments and local geologic controls of potential hydrothermal fields along the Southern Mid-Atlantic Ridge (12–14°S). The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Marsys(2017), <https://doi.org/10.1016/j.jmarsys.2018.02.003>

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Tectonic environments and local geologic controls of potential hydrothermal fields along the Southern Mid-Atlantic Ridge (12-14°S)

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Abstract: Systematic hydrothermal exploration and multi-beam bathymetry mapping have been conducted along a 220-km-long section of the Southern Mid-Atlantic Ridge (SMAR) from 12°S (Bode Verde Fracture Zone) to 14°S (Cardno Fracture Zone), and previously reported deposits (Tao et al., 2011) are now being thoroughly investigated. Here, we present the characterization of three possible hydrothermal fields, a complete bathymetry data set of the ridge segment, gravity data, and the petrologic characteristics of

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