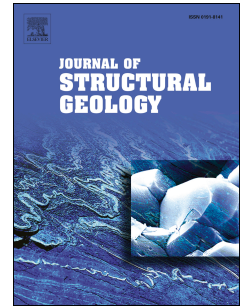


Accepted Manuscript

Asymmetrical magnetic fabrics in the Egersund doleritic dike swarm (SW Norway) reveal sinistral oblique rifting before the opening of the lapetus

Salvatrice Montalbano, Hervé Diot, Olivier Bolle



PII: S0191-8141(16)30006-2

DOI: [10.1016/j.jsg.2016.01.006](https://doi.org/10.1016/j.jsg.2016.01.006)

Reference: SG 3300

To appear in: *Journal of Structural Geology*

Received Date: 15 September 2015

Revised Date: 15 January 2016

Accepted Date: 25 January 2016

Please cite this article as: Montalbano, S., Diot, H., Bolle, O., Asymmetrical magnetic fabrics in the Egersund doleritic dike swarm (SW Norway) reveal sinistral oblique rifting before the opening of the lapetus, *Journal of Structural Geology* (2016), doi: 10.1016/j.jsg.2016.01.006.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Asymmetrical magnetic fabrics in the Egersund doleritic dike swarm (SW Norway)
reveal sinistral oblique rifting before the opening of the Iapetus**

Salvatrice Montalbano^{a,*}, Hervé Diot^b, Olivier Bolle^a

^a *Département de Géologie, Université de Liège, Quartier Agora, Allée du Six Août 12, 4000
Liège, Belgique*

^b *UMR-CNRS 6112, Laboratoire de Planétologie et Géodynamique, Université de Nantes, 2
Rue de la Houssinière, 44322 Nantes Cedex 3, France & Faculté de Sciences et Technologie,
Université de La Rochelle, Avenue M. Crépeau, 17402 La Rochelle Cedex 1, France.*

Submitted to the Journal of Structural Geology

Abstract

The 616 ± 3 Ma (Ediacaran) Egersund doleritic dike swarm cuts across the Rogaland anorthosite province and its granulitic country rocks, in SW Norway. The structure of eight out of eleven main dikes of the swarm was investigated using the anisotropy of magnetic susceptibility (AMS) technique. Thermomagnetic data and values of the bulk magnetic susceptibility reveal a magnetic mineralogy dominated by Ti-poor titanomagnetite. Magnetic fabric and global petrofabric are coaxial, except in sites strongly affected by hydrothermal

Download English Version:

<https://daneshyari.com/en/article/6444689>

Download Persian Version:

<https://daneshyari.com/article/6444689>

[Daneshyari.com](https://daneshyari.com)