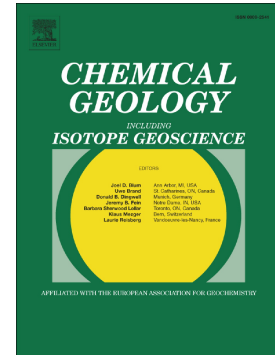


# Accepted Manuscript

Spatial distribution of helium isotopes in Icelandic geothermal fluids and volcanic materials with implications for location, upwelling and evolution of the Icelandic mantle plume

Sunna Harðardóttir, Sæmundur Ari Halldórsson, David R. Hilton



PII: S0009-2541(17)30299-1  
DOI: doi: [10.1016/j.chemgeo.2017.05.012](https://doi.org/10.1016/j.chemgeo.2017.05.012)  
Reference: CHEMGE 18343  
To appear in: *Chemical Geology*  
Received date: 1 December 2016  
Revised date: 9 May 2017  
Accepted date: 14 May 2017

Please cite this article as: Sunna Harðardóttir, Sæmundur Ari Halldórsson, David R. Hilton, Spatial distribution of helium isotopes in Icelandic geothermal fluids and volcanic materials with implications for location, upwelling and evolution of the Icelandic mantle plume, *Chemical Geology* (2017), doi: [10.1016/j.chemgeo.2017.05.012](https://doi.org/10.1016/j.chemgeo.2017.05.012)

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.

# Spatial distribution of helium isotopes in Icelandic geothermal fluids and volcanic materials with implications for location, upwelling and evolution of the Icelandic mantle plume

Sunna Harðardóttir<sup>1</sup>, Sæmundur Ari Halldórsson<sup>1</sup>, David R. Hilton<sup>2</sup>

<sup>1</sup> Institute of Earth Sciences, University of Iceland, Sturlugata 7, 101 Reykjavík, Iceland

<sup>2</sup> Fluids and Volatiles Laboratory, Geosciences Research Division, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA 92093-0244, USA

\*Corresponding Author: saemiah@hi.is

Number of words in the main text: ~8500 (excluding abstract: ~300)

Number of Figures: 10

Number of Tables: 2

**KEY WORDS:** Iceland, helium isotopes, mantle, tectonics, isoscape

Download English Version:

<https://daneshyari.com/en/article/8910350>

Download Persian Version:

<https://daneshyari.com/article/8910350>

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