Accepted Manuscript

Fate of polycyclic aromatic hydrocarbons from the North Pacific to the Arctic: Field measurements and fugacity model simulation

Hongwei Ke, Mian Chen, Mengyang Liu, Meng Chen, Mengshan Duan, Peng Huang, Jiajun Hong, Yan Lin, Shayen Cheng, Xuran Wang, Mengxue Huang, Minggang Cai

PII: S0045-6535(17)30960-8

DOI: 10.1016/j.chemosphere.2017.06.058

Reference: CHEM 19452

To appear in: ECSN

Received Date: 12 April 2017

Revised Date: 4 June 2017

Accepted Date: 14 June 2017

Please cite this article as: Ke, H., Chen, M., Liu, M., Chen, M., Duan, M., Huang, P., Hong, J., Lin, Y., Cheng, S., Wang, X., Huang, M., Cai, M., Fate of polycyclic aromatic hydrocarbons from the North Pacific to the Arctic: Field measurements and fugacity model simulation, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.06.058.

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.

Chemosphere



ACCEPTED MANUSCRIPT

1	Fate of polycyclic aromatic hydrocarbons from the North Pacific to the Arctic:
2	Field measurements and fugacity model simulation
3	Hongwei Ke, ^{1,2,3,*} Mian Chen, ^{3,*} Mengyang Liu, ³ Meng Chen, ⁴ Mengshan Duan, ³
4	Peng Huang, ³ Jiajun Hong, ⁴ Yan Lin, ³ Shayen Cheng, ⁵ Xuran Wang, ³ Mengxue
5	Huang, ³ and Minggang Cai ^{†,1,2,3}
6	¹ State Key Laboratory of Marine Environmental Science, Xiamen University,
7	Xiamen 361102
8	² Fujian Provincial Key Laboratory for Coastal Ecology and Environmental Studies,
9	Xiamen University, Xiamen 361102
10	³ College of Ocean and Earth Science, Xiamen University, Xiamen 361102
11	⁴ College of the Environment and Ecology, Xiamen University, Xiamen 361102
12	⁵ College of Ocean Science and Resource, National Taiwan Ocean University,
13	Keelung 20224
14	

Polycyclic aromatic hydrocarbons (PAHs) have accumulated ubiquitously inArctic environments, where re-volatilization of certain organic pollutants as a result of climate change has been observed. To investigate the fate of semivolatile organic compounds in the Arctic, dissolved PAHs in the surface seawaters from the temperate Pacific Ocean to the Arctic Ocean, as well as a water column in the Arctic Ocean, were collected during the 4th Chinese National Arctic Research Expedition in summer

15

Abstract

^{*} Joint first authors.

⁺ Corresponding author: Minggang. Cai. Tel: +86 592 2886188; E-mail: mgcai@xmu.edu.cn.

Download English Version:

https://daneshyari.com/en/article/5746219

Download Persian Version:

https://daneshyari.com/article/5746219

Daneshyari.com