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Seasonal variation of organochlorine pesticides in the gaseous phase and aerosols over the East China Sea

Tianyi Ji, Tian Lin, Fengwen Wang, Yuanyuan Li, Zhigang Guo

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## ACCEPTED MANUSCRIPT

Seasonal variation of organochlorine pesticides in the gaseous phase and aerosols

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2	over the East China Sea
3	Tianyi Ji <sup>1</sup> , Tian Lin <sup>2*</sup> , Fengwen Wang <sup>1</sup> , Yuanyuan Li <sup>1</sup> , Zhigang Guo <sup>1*</sup>
4	<sup>1</sup> Shanghai Key Laboratory of Atmospheric Particle Pollution Prevention, Center for
5	Atmospheric Chemistry Study, Department of Environmental Science and
6	Engineering, Fudan University, Shanghai 200433, China
7	<sup>2</sup> State Key Laboratory of Environmental Geochemistry, Institute of Geochemistry,
8	Chinese Academy of Sciences, Guiyang 550002, China
9	*Corresponding author: Tel.: (+86) 21 65643117 Email: <u>lintian@vip.gyig.ac.cn</u> and
10	guozgg@fudan.edu.cn
11	
12	Abstract
13	Eighty paired gaseous phase and PM2.5 (particulate matter $< 2.5 \ \mu m$ in diameter)

samples, covering four seasons from October 2011 to August 2012 were collected 14 simultaneously from a remote island in the East China Sea (ECS). The samples were 15 analyzed for organochlorine pesticides (OCPs) to determine their seasonal variation 16 and potential sources over the coastal marine environment. The concentrations of 17 individual OCPs in the PM2.5 samples were higher in winter and lower in summer, 18 and the reverse trend was observed for the measured OCP compounds (except 19 hexachlorocyclohexanes, HCHs) in the gaseous phase. Principal component analysis 20 revealed one trend that contributed 40% to PM2.5-bound OCPs characterized by 21 β-HCH, α-HCH, p,p'-dichlorodiphenyldichloroethane (p,p'-DDD), 22

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