

Supplementary Information for

“Biogeographical role of the Kuroshio Current in the amphibious mudskipper *Periophthalmus modestus* indicated by mitochondrial DNA data”

Lijun He^{1,2,*}, Takahiko Mukai^{3,†}, Ka Hou Chu^{4,†}, Qiang Ma⁵, Jing Zhang¹

¹State Key Laboratory of Estuarine and Coastal Research, East China Normal University, 200062, Shanghai, China

²East China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, 200090, Shanghai, China;

³Faculty of Regional Studies, Gifu University, 1-1 Yanagido, 501-1193, Gifu, Japan

⁴Simon F. S. Li Marine Science Laboratory, School of Life Sciences, The Chinese University of Hong Kong, Hong Kong, China

⁵Chongming Dongtan National Nature Reserve, 202183, Shanghai, China

*Correspondence: Lijun He, State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, 200062, China

Tel: 8621-52124974; fax: 8621-62546441; e-mail: tiger02j@hotmail.com

Supplementary Information Table S1:

Geographic distribution and frequency of haplotypes from 12 localities in the northwestern Pacific Ocean

Haplotypes	Coastal Japan (I)						Okinawa (II)	Coastal East China (III)		South China Sea (IV)			Total
	1	2	3	4	5	6	7	8	9	10	11	12	
N01								1					1
N02										1			1
N03									1				1
N04											1		1
N05										1			1
N06								1					1
N07											1		1
N08										1			1
N09								1					1
N10										1			1
N11										1			1
N12										2	1	1	4
N13								3					3
N14								2		1			3
N15								1					1
N16												1	1
N17								1					1
N18								1					1
N19										1			1
N20										1			1
N21										1			1
N22								2					2
N23								1					1
N24								1					1
N25			3		1			3			1		8
N26	1												1
N27												1	1
N28											1		1
N29								2					2
N30										1			1
N31								1					1
N32										1			1
N33										1			1
N34										1			1
N35							3		1	1			5
N36							3						3

N37								1		1		
N38								1		1		
N39					1					1		
N40								1		1		
N41								1		1		
N42								1		1		
N43									1	1		
N44		1								1		
N45										1		
N46	4	7	2	1	3			1		18		
N47								1		1		
N48									1	1		
N49									1	1		
N50		1								1		
N51			1							1		
N52		1								1		
N53	1									1		
N54		1								1		
N55		1								1		
N56									1	1		
N57									1	1		
N58									1	1		
N59								1		1		
N60									1	1		
N61									1	1		
N62									1	1		
N63									1	1		
N64									1	1		
N65	1			3	1			3	2	1	11	
N66									1		1	
N67									1		1	
N68									1		1	
N69								1	2		1	4
N70								1				1
N71					1							1
N72									1			1
N73					1							1
N74					1							1
N75									1			1
N76									1			1

Supplementary Information Figure S1:

Quartets of sequences from four clusters including a (outgroup), b (N66), c (N65, N67, N68, N69, N70, N71, N72, N73, N74, N75, N76), and d (the rest haplotypes) used in the likelihood mapping statistics.

