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### **Supplementary Material**

#### **Taxonomic diversity of fishes from two coral-reef waters of the South China Sea**

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**Tables S1. Species lists of reef-dwelling fishes on the Qilianyu Island and Meiji Reef**

Order	Family	Genus	Species	Distribution region	
				Meiji Reef	Qilianyu Island
Aulopiformes	Synodontidae	<i>Synodus</i>	<i>Synodus rubromarmoratus</i>	+	
			<i>Synodus hoshinonis</i>	+	
			<i>Synodus englemani</i>		+
			<i>Synodus variegatus</i>		+
			<i>Synodus macrops</i>		+
Beryciformes	Holocentridae	<i>Myripristis</i>	<i>Myripristis murdjan</i>	+	+
			<i>Myripristis vittata</i>		+
		<i>Neoniphon</i>	<i>Neoniphon sammara</i>	+	+
			<i>Neoniphon opercularis</i>		+
			<i>Neoniphon argenteus</i>		+
			<i>Sargocentron spiniferum</i>	+	+
			<i>Sargocentron lacteoguttatum</i>		+
			<i>Dispinus ruber</i>		+
			<i>Sargocentron tiere</i>	+	+
			<i>Sargocentron diadema</i>	+	+
Perciformes	Apodonidae	<i>Apogon</i>	<i>Sargocentron cornutum</i>	+	+
			<i>Sargocentron rubrum</i>	+	+
			<i>Sargocentron audimaculatum</i>	+	+
			<i>Apogon guamensis</i>	+	
		<i>Apogonichthyooides</i>	<i>Apogon hyalosoma</i>	+	
			<i>Apogon kallopterus</i>	+	+
			<i>Apogon exostigma</i>		+
		<i>Cheilodipterus</i>	<i>Apogonichthyooides taeniatus</i>	+	
			<i>Cheilodipterus macrodon</i>	+	+
			<i>Gymnapogon urospilotus</i>		+
		<i>Paracaesio</i>	<i>Paracaesio sordida</i>	+	
		<i>Chaetodon</i>	<i>Chaetodon auriga</i>	+	
			<i>Chaetodon trifasciatus</i>		+
		<i>Bodianus</i>	<i>Bodianus bimaculatus</i>		+
			<i>Cheilinus celebicus</i>	+	
		<i>Cheilinus</i>	<i>Cheilinus diagrammus</i>		+
			<i>Cheilinus oxycephalus</i>		+
			<i>Cheilinus trilobatus</i>		+
			<i>Cheilinus chlorourus</i>	+	+
			<i>Cheilinus rhodochrous</i>	+	+
			<i>Cheilinus fasciatus</i>	+	+
			<i>Cheilinus orientalis</i>	+	+
		<i>Choerodon</i>	<i>Choerodon gymnogenys</i>		+
			<i>Halichoeres trimaculatus</i>	+	
			<i>Halichoeres nebulosus</i>	+	
Lethrinidae	<i>Hologymnosus</i>	<i>Hologymnosus</i>	<i>Hologymnosus annulatus</i>		+
			<i>Thalassoma purpureum</i>	+	
			<i>Xyrichtys ameiteensis</i>		+
		<i>Lethrinus</i>	<i>Lethrinus atkinsoni</i>	+	
		<i>Lethrinus</i>	<i>Lethrinus nebulosus</i>	+	
			<i>Lethrinus erythropterus</i>		+

Order	Family	Genus	Species	Distribution region	
				Meiji Reef	Qilianyu Island
			<i>Lethrinus mahsenoides</i>		+
			<i>Lethrinus kallopterus</i>		+
			<i>Lethrinus rubrioperculatus</i>	+	+
			<i>Lethrinus obsoletus</i>	+	+
			<i>Lethrinus microdon</i>	+	+
			<i>Lethrinus semicinctus</i>	+	+
			<i>Lethrinus miniatus</i>	+	+
Lutjanidae	<i>Aphareus</i>		<i>Aphareus rutilans</i>		+
			<i>Etelis carbunculus</i>		+
			<i>Aprion virescens</i>		+
		<i>Lutjanus</i>	<i>Lutjanus gibbus</i>	+	
			<i>Lutjanus erythropterus</i>	+	
			<i>Lutjanus sebae</i>	+	
			<i>Lutjanus quinquefasciatus</i>	+	
			<i>Lutjanus bohar</i>	+	
			<i>Lutjanus fulviflamma</i>	+	+
			<i>Lutjanus kasmira</i>	+	+
		<i>Pristipomooides</i>	<i>Pristipomooides filamentosus</i>		+
Malacanthidae	<i>Malacanthus</i>		<i>Malacanthus brevirostris</i>		+
			<i>Mulloidichthys vanicolensis</i>	+	+
Mullidae	<i>Parupeneus</i>		<i>Parupeneus trifasciatus</i>	+	
			<i>Parupeneus heptacanthus</i>		+
			<i>Parupeneus pleurostigma</i>		+
			<i>Parupeneus cyclostomus</i>	+	+
			<i>Parupeneus trifasciatus</i>	+	+
		<i>Upeneus</i>	<i>Upeneus vittatus</i>	+	
			<i>Parapercis hexophtalma</i>	+	+
			<i>Parapercis hexophtalma</i>		+
			<i>Parapercis millepunctata</i>		+
			<i>Gnathodentex aureolineatus</i>	+	+
Pentapodidae	<i>Gymnocranius</i>		<i>Gymnocranius elongatus</i>	+	+
			<i>Gymnocranius griseus</i>	+	+
			<i>Gymnocranius japonicus</i>		+
			<i>Gymnocranius grandoculis</i>		+
		<i>Pentapodus</i>	<i>Pentapodus emeryii</i>	+	
			<i>Pentapodus caninus</i>	+	
			<i>Pentapodus aureofasciatus</i>	+	
			<i>Pentapodus nagasakiensis</i>		+
			<i>Centropyge nox</i>		+
			<i>Neopomacentrus azysron</i>	+	
Pomacentridae	<i>Pomacentrus</i>		<i>Pomacentrus amboinensis</i>		+
			<i>Pomacentrus philippinus</i>		+
			<i>Pomacentrus nagasakiensis</i>		+
			<i>Pomacentrus taeniometopon</i>		+
			<i>Priacanthus hamrur</i>		+
Priacanthidae	<i>Priacanthus</i>		<i>Scolopsis xenochrous</i>	+	
			<i>Scolopsis inermis</i>	+	

Order	Family	Genus	Species	Distribution region	
				Meiji Reef	Qilianyu Island
			<i>Scolopsis bimaculatus</i>	+	
			<i>Scolopsis Cuvier</i>	+	
			<i>Scolopsis monogramma</i>	+	
			<i>Scolopsis bilineatus</i>	+	
			<i>Scolopsis lineata</i>	+	
			<i>Scolopsis affinis</i>	+	+
			<i>Scolopsis margaritifer</i>	+	
			<i>Scolopsis trilineatus</i>		+
	Scombridae	<i>Rastrelliger</i>	<i>Rastrelliger kanagurta</i>	+	
	Serranidae	<i>Cephalopholis</i>	<i>Cephalopholis leopardus</i>	+	+
			<i>Cephalopholis urodetata</i>	+	+
			<i>Cephalopholis spiloparaea</i>	+	+
			<i>Cephalopholis argus</i>		+
		<i>Epinephelus</i>	<i>Epinephelus coioides</i>	+	
			<i>Epinephelus corallicola</i>		+
			<i>Epinephelus quoyanus</i>		+
			<i>Epinephelus merra</i>	+	+
			<i>Epinephelus miliaris</i>	+	+
		<i>Variola</i>	<i>Aethaloperca rogaa</i>		+
			<i>Variola albimarginata</i>		+
	Sparidae	<i>Dentex</i>	<i>Monotaxis grandoculis</i>	+	
Pleuronectiformes	Bothidae	<i>Bothus</i>	<i>Bothus pantherinus</i>		+
Tetraodontiformes	Balistidae	<i>Melichthys</i>	<i>Melichthys vidua</i>		+
			<i>Abalistes stellatus</i>		+
		<i>Pseudobalistes</i>	<i>Pseudobalistes fuscus</i>		+
			<i>Balistapus undulatus</i>	+	+
		<i>Sufflamen</i>	<i>Sufflamen chrysopterum</i>		+
			<i>Sufflamen fraenatus</i>		+
	Tetraodontidae	<i>Arothron</i>	<i>Arothron nigropunctatus</i>	+	
		<i>Canthigaster</i>	<i>Pleurana canthus sceleratus</i>		+