

Appendix 7a.7 Fauna Recorded in Tsang Tsui Study Area

Common Name ¹	Scientific Name	Distribution in HK	Level of Concern ²	Protection Status in China ³	China Red Data Book	Ash Lagoon	Secondary Woodland	Grassland/ Shrubland	Plantation	Watercourse	Developed Area/ Disturbed Area	Orchard	Seawall	Coastal Waters	At Flight
Avifauna															
Little Grebe	<i>Tachybaptus ruficollis</i>	Common	LC	-	-	+++									
Grey Heron	<i>Ardea cinerea</i>	Common	PRC	-	-	+							+		
Great Egret	<i>Egretta alba</i>	Common	PRC (RC)	-	-					+					
Little Egret	<i>Egretta garzetta</i>	Common	PRC (RC)	-	-	++		+		++			++	+	++
Pacific Reef Egret	<i>Egretta sacra</i>	Uncommon	(LC)	Class II	Rare									+	
Chinese Pond Heron	<i>Ardeola bacchus</i>	Common	PRC (RC)	-	-	+				+			+		+
Eurasian Wigeon	<i>Anas penelope</i>	Winter visitor	RC	-	-	++									
Osprey ⁴	<i>Pandion haliaetus</i>	Common	RC	Class II	Rare	+									
Black Kite ⁴	<i>Milvus migrans</i>	Common	(RC)	Class II	-								+		++
Crested Goshawk ⁴	<i>Accipiter trivirgatus</i>	Uncommon	-	Class II	Rare										+
Common Buzzard ⁴	<i>Buteo buteo</i>	Common	-	Class II	-								+		+
Common Kestrel ⁴	<i>Falco tinnunculus</i>	Common	-	Class II	-										+
Peregrine Falcon ⁴	<i>Falco peregrinus</i>	Scarce	(LC)	Class II	-	+									
Chinese Francolin	<i>Francolinus pintadeanus</i>	Common	-	-	-			+							
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	Common	-	-	-			+		+					
Common Moorhen	<i>Gallinula chloropus</i>	Common	-	-	-	+	+								
Little Ringed Plover	<i>Charadrius dubius</i>	Common	(LC)	-	-	+++									
Kentish Plover	<i>Charadrius alexandrinus</i>	Abundant	RC	-	-	+++									
Green Sandpiper	<i>Tringa ochropus</i>	Uncommon	-	-	-	+				+					+
Common Sandpiper	<i>Acititis hypoleucos</i>	Common	-	-	-	+				+					+
Spotted Dove	<i>Streptopelia chinensis</i>	Common	-	-	-	++	++	++	+	+	++	+	+		+
Indian Cuckoo	<i>Cuculus micropterus</i>	Uncommon	-	-	-	+									
Common Koel	<i>Eudynamis scolopacea</i>	Common	-	-	-	+	+	+							
Greater Coucal	<i>Centropus sinensis</i>	Common	-	Class II	Vulnerable		+	+		+					
Lesser Coucal	<i>Centropus bengalensis</i>	Common	-	Class II	Vulnerable										+
Savanna Nightjar	<i>Caprimulgus affinis</i>	Uncommon	-	-	-										+
Pacific Swift	<i>Apus pacificus</i>	Common	(LC)	-	-										++
Pied Kingfisher	<i>Ceryle rudis</i>	Uncommon	(LC)	-	-	+							+		+
Common Kingfisher	<i>Alcedo atthis</i>	Common	-	-	-					+					+
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	Common	(LC)	-	-	+				+				+	+
Barn Swallow	<i>Hirundo rustica</i>	Common	-	-	-	+				+					++
Grey Wagtail	<i>Motacilla cinerea</i>	Common	-	-	-				+						
White Wagtail	<i>Motacilla alba</i>	Common	-	-	-	+++				+	+		+		+
Richard's Pipit	<i>Anthus richardi</i>	Common	-	-	-	+		+							
Olive-backed Pipit	<i>Anthus hodgsoni</i>	Common	-	-	-	+		+	+		+				
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	Abundant	-	-	-	+	+	++	+						+
Chinese Bulbul	<i>Pycnonotus sinensis</i>	Abundant	-	-	-	+++	++	+++	+		+	+	+		+
Sooty-headed Bulbul	<i>Pycnonotus aurigaster</i>	Uncommon	-	-	-	+									
Long-tailed Shrike	<i>Lanius schach</i>	Common	-	-	-	++		+	+						
Siberian Rubythroat	<i>Luscinia calliope</i>	Common	-	-	-			+							
Oriental Magpie Robin	<i>Copsychus saularis</i>	Abundant	-	-	-	+	+	++	+						
Daurian Redstart	<i>Phoenicurus aureus</i>	Common	-	-	-			+	+						
Common Stonechat	<i>Saxicola torquata</i>	Common	-	-	-	+		+							
Scaly Thrush	<i>Zoothera dauma</i>	Uncommon	-	-	-			+							
Grey-backed Thrush	<i>Turdus hortulorum</i>	Common	-	-	-							+			
Masked Laughingthrush	<i>Garrulax perspicillatus</i>	Abundant	-	-	-		+	+	+						+
Japanese Bush Warbler	<i>Cettia diphone</i>	Common	-	-	-			+							
Zitting Cisticola	<i>Cisticola juncidis</i>	Common	LC	-	-	+									
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	Common	-	-	-	++		++	+						
Plain Prinia	<i>Prinia inornata</i>	Common	-	-	-	+		+							
Common Tailorbird	<i>Orthotomus sutorius</i>	Common	-	-	-		+	+	+						
Dusky Warbler	<i>Phylloscopus fuscatus</i>	Common	-	-	-	+	+	++	+						
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	Common	-	-	-		+	++			+				
Great Tit	<i>Parus major</i>	Common	-	-	-	+			+		+				
Fork-tailed Sunbird	<i>Aethopyga christinae</i>	Common	-	-	-			+							

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Japanese White-eye	<i>Zosterops japonica</i>	Abundant	-	-	-		++	+++				+			
Little Bunting	<i>Emberiza pusilla</i>	Common	-	-	-	+									
Black-faced Bunting	<i>Emberiza spodocephala</i>	Common	-	-	-	+		+	+						
White-rumped Munia	<i>Lonchura striata</i>	Common	-	-	-			+							
Scaly-breasted Munia	<i>Lonchura punctulata</i>	Common	-	-	-	++		++			++				
Eurasian Tree Sparrow	<i>Passer montanus</i>	Abundant	-	-	-						+				
Black-collared Starling	<i>Sturnus nigricollis</i>	Common	-	-	-	++	+	++	+		+		++		++
Crested Myna	<i>Aridotheres cristalleus</i>	Common	-	-	-	++++		+	+		+		+		++
Black Drongo	<i>Dicrurida macrocercus</i>	Common	-	-	-			+							
Common Magpie	<i>Pica pica</i>	Common	-	-	-	+		+			+				+
Large-billed Crow	<i>Corvus macrorhynchus</i>	Common	-	-	-			+	+						+

Notes:

Code for Abundance: +=Rare; +=Occasional; +++=Common; ++++=Abundant

1. All wild birds are protected under Wild Animal Protection Ordinance (Cap. 170)

2. Fellowes et al. (2002): GC=Global concern; RC=Regional Concern; LC=Local Concern; PGC=Potential Global Concern; PRC=Potential Regional Concern.

Letter in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence.

3. List of Wild Animals Under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989). [國家重點保護野生動物名錄(1989年1月14日林業局及農業部發佈施行)]

4. Protected under Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586)

Appendix 7a.7 Fauna Recorded in Tsang Tsui Study Area

Common Name	Scientific Name	Distribution in Hong Kong	Protection Status in Hong Kong ¹	Protection Status in China ²	Ash Lagoon	Secondary Woodland	Grassland/Shrubland	Plantation	Watercourse	Developed Area/Disturbed Area	Orchard	Seawall	Coastal Waters	At Flight
Mammals														
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	Abundant	Cap. 170	-										+
Small Indian Civet	<i>Viverricula indica</i>	Abundant	Cap. 170	Category II	+ (Dead Body)							+ (Scat)		

Notes:

Code for Abundance: +=Rare.

1. Protected under Wild Animal Protection Ordinance (Cap. 170)

2. List of Wild Animals Under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989). [國家重點保護野生動物名錄(1989年1月14日林業局及農業部發佈施行)]

Appendix 7a.7 Fauna Recorded in Tsang Tsui Study Area

Common Name	Scientific Name	Distribution in Hong Kong	Ash Lagoon	Secondary Woodland	Grassland/Shrubland	Plantation	Watercourse	Developed Area/ Disturbed Area	Orchard	Seawall	Coastal Waters
Amphibians											
Asiatic Painted Frog	<i>Kaloula pulchra pulchra</i>	Widely distributed						+			
Butler's Pigmy Frog	<i>Microhyla butleri</i>	Widely distributed			+						
Ornate Pigmy Frog	<i>Microhyla ornata</i>	Widely distributed	+	+	++						
Paddy Frog	<i>Rana limnocharis</i>	Widely distributed	++								
Gunther's Frog	<i>Rana guentheri</i>	Widely distributed	++		++						
Brown Tree Frog	<i>Polypedates megacephalus</i>	Widely distributed	+		+						

Note:
Code for Abundance: +=Rare; ++=Occasional.

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Common Name	Scientific Name	Distribution in Hong Kong	Ash Lagoon	Secondary Woodland	Grassland/ Shrubland	Plantation	Watercourse	Developed Area/ Disturbed Area	Orchard	Seawall	Coastal Waters
Reptiles											
Bowring's Gecko	<i>Hemidactylus bowringii</i>	Widely distributed			+			+			
Changeable Lizard	<i>Calotes versicolor</i>	Widely distributed	+					+			
Chinese Skink	<i>Eumeces chinensis chinensis</i>	Widely distributed							+		

Note:
Code for Abundance: +=Rare.

Appendix 7a.7 Fauna Recorded in Tsang Tsui Study Area

Common Name	Scientific Name	Distribution in Hong Kong	Ash Lagoon	Secondary Woodland	Grassland/ Shrubland	Plantation	Watercourse	Developed Area/ Disturbed Area	Orchard	Seawall	Coastal Waters	At Flight
Butterflies												
Hesperiidae												
Chestnut Bob	<i>Iambrix salsala salsala</i>	Uncommon			+							
Papilionidae												
Red Helen	<i>Papilio helenus helenus</i>	Common		++	+	+			+			
Common Mormon	<i>Papilio polytes polytes</i>	Common		++	++	+		+	+			
Great Mormon	<i>Papilio memnon agenor</i>	Common			+			+				+
Spangle	<i>Papilio protenor protenor</i>	Common		++					+			
Paris Peacock	<i>Papilio paris paris</i>	Common	+	+	+			+	+			
Pieridae												
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	Common	+	+	++			++	+			
Indian Cabbage White	<i>Pieris canidia canidia</i>	Common	++	+	+++	+		++	+			
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	Common			+	+						
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	Common	++	++	++++	+		+				
Lycaenidae												
Dark Cerulean	<i>Jamides bochus bochus</i>	Common			+							
Long-tailed Blue	<i>Lampides boeticus</i>	Common			++							
Pale Grass Blue	<i>Zizeeria maha serica</i>	Common						+				
Common Hedge Blue	<i>Acytoplepis puspa gisca</i>	Common			+							
Riodinidae												
Plum Judy	<i>Abisara echerius echerius</i>	Common			+			+				
Satyridae												
Common Evening Brown	<i>Melanitis leda leda</i>	Common			+							
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	Common			+							
Dark-brand Bush Brown	<i>Mycalesis mineus mineus</i>	Common		++	+							
Nymphalidae												
Angled Castor	<i>Ariadne ariadne alterna</i>	Common		+								
Rustic	<i>Cupha erymanthis erymanthis</i>	Common			+							
Red Lacewing	<i>Cethosia biblis biblis</i>	Rare			+							
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	Common		++	++				+			
Common Sailer	<i>Neptis hylas hylas</i>	Common		++	++			+	+			

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Common Name	Scientific Name	Distribution in Hong Kong	Ash Lagoon	Secondary Woodland	Grassland/ Shrubland	Plantation	Watercourse	Developed Area/ Disturbed Area	Orchard	Seawall	Coastal Waters	At Flight
Red Ring Skirt	<i>Hestina assimilis assimilis</i>	Common	+		++	+				+		
Danaidae												
Glassy Tiger	<i>Parantica aglea melanoides</i>	Common			+							
Common Tiger	<i>Danaus genutia genutia</i>	Common	+	+								
Blue-spotted Crow	<i>Euploea midamus midamus</i>	Common		+								

Note:

Code for Abundance: +=Rare; ++=Occasional; +++=Common; ++++=Abundant

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Common Name	Scientific Name	Distribution in Hong Kong	Level of Concern ¹	Ash Lagoon	Secondary Woodland	Grassland/Shrubland	Plantation	Watercourse	Developed Area/Disturbed Area	Orchard	Seawall	Coastal Waters
Damselfly												
Common Bluetail	<i>Ischnura senegalensis</i>	Abundant	-			+	+		+			
Dragonfly												
Lesser Emperor	<i>Anax parthenope julius</i>	Common	-	+								
Blue Dasher	<i>Brachydiplax chalybea</i>	Common	-	+								
Asian Amberwing	<i>Brachythemis contaminata</i>	Abundant	-	++								
Crimson Darter	<i>Crocothemis servilia servilia</i>	Abundant	-	+	+							
Blue Percher	<i>Diplacodes trivialis</i>	Abundant	-	+								
Coastal Glider	<i>Macrodiplex cora</i>	Uncommon	LC	+++		+						
Common Blue Skimmer	<i>Orthetrum glaucum</i>	Abundant	-			+				+		
Green Skimmer	<i>Orthetrum sabina sabina</i>	Common	-	++	+	+++	+		++	+	+	
Wandering Glider	<i>Pantala flavescens</i>	Abundant	-	++		++	+		++++	+		
Variegated Flutterer	<i>Rhyothemis variegata arria</i>	Common	-	+		+						
Saddlebag Glider	<i>Tramea virginia</i>	Common	-			+						

Note:

Code for Abundance: +=Rare; ++=Occasional; +++=Common; ++++=Abundant.

1. Fellowes et al. (2002): LC=Local Concern.

Appendix 7a.7 Fauna Recorded in Tsang Tsui Study Area

Fishes

Common Name	Scientific Name	Site 1 (Downstream)	Site 2 (Mid-stream)	Site 3 (Upstream)	Site 4 (Channel)
Barcheek Goby (juvenile)	<i>Rhinogobius giurinus</i>			++	
Chameleon Goby	<i>Tridentiger trigonocephalus</i>	+++	++++	+	
Crescent-banded Grunter	<i>Terapon jarbua</i>	+++			
Grey Mullet	<i>Mugil cephalus</i>	+++			
Nile Tilapia	<i>Oreochromis niloticus</i>	++			
Common Mudskipper	<i>Periophthalmus modestus</i>	+			

Shrimps

Common Name	Scientific Name	Site 1 (Downstream)	Site 2 (Mid-stream)	Site 3 (Upstream)	Site 4 (Channel)
-	<i>Macrobrachium hainanense</i>			+++	++
-	<i>Caridina cantonesnsis</i>			+++	

Aquatic Insect larvae

Common Name	Scientific Name / Family Name	Site 1 (Downstream)	Site 2 (Mid-stream)	Site 3 (Upstream)	Site 4 (Channel)
-	<i>Anisocentropus maculatus</i> (Calamoceratidae)			+++	
-	Coenagrionidae			++	
-	Tramea				++
-	Trithemis				+
-	Baetidae			+	++++
-	<i>Serratella</i> sp. (Emphemerellidae)			++	
-	Leptohlebiidae			+++	+++
-	Heptageniidae				++
-	<i>Simulium</i> sp.				+++
-	Chironomidae				++++
-	<i>Ptilomera tigrina</i>	++	+++	++	+
-	Gyrinidae			+++	

Snails

Common Name	Scientific Name	Site 1 (Downstream)	Site 2 (Mid-stream)	Site 3 (Upstream)	Site 4 (Channel)
-	<i>Radix plicatulus</i>				+++
-	<i>Physella acuta</i>				++++

Others

Common Name	Scientific Name	Site 1 (Downstream)	Site 2 (Mid-stream)	Site 3 (Upstream)	Site 4 (Channel)
Water Mite	Suborder: Hydrachnida				++++
-	<i>Metrocoris</i> sp.			++++	+++
Leech	Class: Hirudinea		++++		
Oligochaete	Class: Oligochaeta		++		++
Tadpole	-				+

Note:

Code for Abundance: +=Rare; +=Occasional; +=Common; +=Abundant.

Appendix 7a.7 Fauna Recorded in Tsang Tsui Study Area

Intertidal Organisms

Survey Date	2/25/2009										6/23/2009													
Survey Location	Site 1					Site 2					Site 1					Site 2								
Time	15:15 - 16:45					16:50 - 17:30					15:00 - 15:50					15:55-16:45								
Number of Surveyors	3					3					3					3								
Intertidal Type	Sloping Large Boulder Seawall					Sloping Large Boulder Seawall					Sloping Large Boulder Seawall					Sloping Large Boulder Seawall								
Transect Length (m)	4m					5m					4.5m					4.5m								
Quadrat	1	2	3	4	Walk-through	1	2	3	4	5	Walk-through	1	2	3	4	5	Walk-through	1	2	3	4	5	Walk-through	
Encrusting Algae																								
<i>Hapalospongion gelatinosum</i>			20%	30%	+++				5%	30%	+++	60%			20%		+++	70%	50%				5%	+++
<i>Hildenbrandia rubra</i>		15%	20%	60%	+++		5%	20%	70%	60%	+++	5%		5%	60%		+++	20%	30%	20%	80%	70%		++++
<i>Hildenbrandia occidentalis</i>																					1%			+
<i>Pseudovella applanata</i>																	++							++
Erect Algae																								
<i>Gelidium pusillum</i>	1%	20%	30%	5%	+++	5%	20%		20%		+++		5%	10%			+++							
<i>Ulva</i> spp.	95%	25%			++++	70%	70%	20%	1%		+++													
Tubeworm																								
<i>Spirorbis</i> spp.					+++																			
Sea Anemone																								
<i>Haliplanella lineata</i>											+						+++							+++
Limpet / False Limpet																								
<i>Patelloida pygmaea</i>		6			++			16	3		+++	5	15		3		+++		22	47	5			+++
<i>Patelloida saccharina</i>					++																			
<i>Cellana toreuma</i>																					3			
<i>Nipponacmea concinna</i>					+																			
Nerite																								
<i>Nerita albicilla</i>		10	32	5	+++		5	1	40	1	+++			12	7		+++		1	6	6			+++
Periwinkle																								
<i>Echinolittorina radiata</i>				2	++				20	21	+++												8	
<i>Littoraria articulata</i>				50	+++										38	2	+++						14	
Planaxid Snail																								
<i>Planaxis sulcatus</i>											+++	3	7				+++						2	
Whelks																								
<i>Thais clavigera</i>								1	1		++										1	1		+
<i>Thais luteostoma</i>												1		1			++							
Bivalves																								
<i>Saccostrea cucullata</i>	70%	70%	10%	1%	++++	50%	35%	70%	30%	<1%	++++	5%	80%	60%	10%		++++	70%	30%	30%	50%			++++
<i>Septifer virgatus</i>	<1%	<1%			+							1%	5%	1%	<1%		+++		<1%	1%				++
<i>Capitulum mitella</i>																	+							
Barnacles																								
<i>Balanus amphitrite</i>	5%	<1%		<1%	+++	<1%	1%	15%	1%	<1%	+++	20%	5%	1%	<1%		+++	20%	10%	5%				+++
<i>Tetraclita squamosa</i>																					<1%			+
True Crabs																								
<i>Hemigrapsus sanguineus</i>	2	6			+++			1	1		++	5	6	2			+++	10	15	5				+++
Sea Slaters																								
<i>Ligia exotica</i>	1	1	1		++		1		2		++		2	1			+++			1	2			+++
Gorgonian																								
<i>Echinomuricea</i> sp.																	+++							

Note:
 Low tide mark – Quadrat 1
 Code for Abundance: +=Rare; ++=Occasional; +++=Common; ++++=Abundant.