

Appendix 12-9 Methodology and Results of Odonata Surveys

Methodology

Odonate surveys were conducted from March to November 2008 by ENSR (2009) in LMC Loop and the surrounding 500m, while LUPCAFS also included odonate surveys from May to August 2008. Thus, odonate information for much of the ecological study area was considered adequate. However, surveys to confirm conditions remained the same were carried out early in both wet seasons of 2009 and 2010. Surveys in other areas of the study area were carried out from March to October (**Table A12-19**).

Table A12-19 Schedule of odonate surveys

Site	2009					2010		
	Jun	Jul	Aug	Sep	Oct	Mar	Apr	May
LMC Loop, Ha Wan Tsuen, LMC Tsuen, Hoo Hok Wai areas close to the Loop (i.e. areas within the 500-m boundary from the Loop)	1	1					1	1
Areas close to Lung Hau Road, Chau Tau, Pun Uk Tsuen, Hoo Hok Wai areas outside the 500-m boundary from the Loop, Ma Tso Lung and Tse Koo Hang.	1	1	1	1	1	1	1	1

Survey methods followed that documented in EIAO Guidance Note No. 10/2004. Daytime transect counts were conducted once per month as above in all potential habitats for odonates (i.e. stream, pond, marsh, reedbed). Individuals observed within an estimated 5m of a standard transect were recorded and counted, with the aid of binoculars. Netting was used only to confirm identification.

Results

LMC Loop

16 odonate species were recorded. Except Common Evening Hawker *Anaciaeschna jaspidea*, all species are considered to be common in HK (Wilson 2004). Scarlet Basker *Urothemis signata* was also recorded. This species was once considered to be of local conservation concern by Fellowes *et al.* (2002), but is now considered to be common in HK (Wilson 2004). Common Evening Hawker was recorded in the reedbed while Scarlet Basker was recorded in grassland, pond and reedbed.

Area of Western Connection Road

A total of 26 species were recorded; all are considered to be common in HK (Wilson 2004). Among these, Ruby Darter *Rhodothemis rufa* and Scarlet Basker are considered to be of local conservation concern (Fellowes *et al.* 2002); they were mainly observed in abandoned ponds. Nevertheless, these two species are not considered so rare now (Wilson 2004). These two species were found in abandoned pond, marsh and wet agricultural land.

Area of Eastern Connection Road, Border Road Area and Hoo Hok Wai

A total of 27 odonate species were recorded in this Area. Three of the species, Coastal Glider *Macrodiplax cora*, Sapphire Flutterer *Rhyothemis triangularis* and Scarlet Basker, are considered to be of local conservation concern (Fellowes *et al.* 2002). However, apart from Coastal Glider, all species observed are considered to be common in HK (Wilson 2004). Although Coastal Glider is not considered to be locally common, it is regarded as one of the

most abundant and widespread dragonfly species in the world (Wilson 2004). These three species were mainly recorded in abandoned fish ponds.

Tse Koo Hang and Ma Tso Lung

A total of 25 species were observed. All are considered to be common in HK (Wilson 2004). Ruby Darters were recorded in the natural watercourses at Tse Koo Hang and Ma Tso Lung.

Table A12-20 Maximum counts of odonates in different areas. WCR = Western Connection Road

Scientific Name	Common Name	Conservation Status	LMC Loop	Area of WCR	HHW	Tse Koo Hang and Ma Tso Lung
<i>Ceriatrigon auranticum</i>	Orange-tailed Sprite 琉球橘黃蟳	-	3	22	24	21
<i>Copera marginipes</i>	Yellow Featherlegs 黃狹扇蟳	-	0	8	17	30
<i>Ischnura senegalensis</i>	Common Bluetail 褐斑異痣蟳	-	6	10	12	1
<i>Pseudagrion rubriceps</i>	Orange-faced Sprite 丹頂斑蟳	-	0	1	0	1
<i>Prodasineura autumnalis</i>	Black Threadtail 烏齒原蟳	-	0	0	2	0
<i>Ictinogomphus pertinax</i>	Common Flangetail 霸王葉春蜓	-	0	2	10	1
<i>Anaciaeschna jaspidea</i>	Common Evening Hawker 碧翠蜓	Uncommon (Wilson 2004)	5	0	0	0
<i>Anax guttatus</i>	Pale-spotted Emperor 斑偉蜓	-	7	1	3	1
<i>Anax immaculifrons</i>	Fiery Emperor 黃偉蜓	-	0	0	0	1
<i>Epophthalmia elegans</i>	Regal Pond Cruiser 閃藍麗大蜻	-	0	1	1	0
<i>Acisoma panorpoides</i>	Asian Pintail 錐腹蜻	-	1	0	3	0
<i>Brachydiplax chalybea</i>	Blue Dasher 藍額疏脈蜻	-	2	10	30	8
<i>Brachythemis contaminata</i>	Asian Amberwing 黃翅蜻	-	1	50	96	9
<i>Crocothemis servilia</i>	Crimson Darter 紅蜻	-	15	9	5	1
<i>Diplacodes trivialis</i>	Blue Percher 紋藍小蜻	-	0	1	0	0
<i>Hydrobasileus croceus</i>	Amber-winged Glider 臀斑楔翅蜻	-	2	1	1	0
<i>Macrodiplax cora</i>	Coastal Glider 高翔潑蜻	Local Concern (Fellowes <i>et al.</i> 2002)	0	0	1	0
<i>Neurothemis tullia</i>	Pied Percher 截	-	10	1	1	2

Scientific Name	Common Name	Conservation Status	LMC Loop	Area of WCR	HHW	Tse Koo Hang and Ma Tso Lung
	斑脈蜻					
<i>Orthetrum chrysis</i>	Red-faced Skimmer 華麗灰蜻	-	0	1	0	1
<i>Orthetrum glaucum</i>	Common Blue Skimmer 黑尾灰蜻	-	0	1	1	7
<i>Orthetrum luzonicum</i>	Marsh Skimmer 呂宋灰蜻	-	0	3	1	2
<i>Orthetrum pruinosum</i>	Common Red Skimmer 赤褐灰蜻	-	0	19	1	18
<i>Orthetrum sabina</i>	Green Skimmer 狹腹灰蜻	-	35	37	33	3
<i>Orthetrum triangulare</i>	Lesser Blue Skimmer 鼎異色灰蜻	-	0	4	5	5
<i>Pantala flavescens</i>	Wandering Glider 黃蜻	-	30	100+	100+	100+
<i>Pseudothemis zonata</i>	Pied Skimmer 玉帶蜻	-	0	9	50	10
<i>Rhodothemis rufa</i>	Ruby Darter 紅胭蜻	Local Concern (Fellowes <i>et al.</i> 2002)	0	2	0	2
<i>Rhyothemis triangularis</i>	Sapphire Flutterer 三角麗翅蜻	Local Concern (Fellowes <i>et al.</i> 2002)	0	0	2	0
<i>Rhyothemis variegata</i>	Variegated Flutterer 斑麗翅蜻	-	45	76	100+	21
<i>Tholymis tillarga</i>	Evening Skimmer 雲斑蜻	-	1	2	5	0
<i>Tramea virginia</i>	Saddlebag Glider 華斜痣蜻	-	3	5	14	1
<i>Trithemis aurora</i>	Crimson Dropwing 曉褐蜻	-	0	3	0	13
<i>Trithemis festiva</i>	Indigo Dropwing 慶褐蜻	-	0	0	0	9
<i>Urothemis signata</i>	Scarlet Basker 赤斑曲鈎脈蜻	Local Concern (Fellowes <i>et al.</i> 2002)	4	12	5	0
<i>Zyxomma petiolatum</i>	Dingy Dusk-darter 細腹綠眼蜻	-	0	0	0	3