

Summary of activities on the China Fleet golf course

In order to investigate the foraging site selection of pre-selected 'target bird species' (Woodpigeon, Blackbird and Carrion Crow) on golf courses in the UK a study was conducted on China Fleet golf course between 05th of April and 11th of May 2023. GPS-tracking was applied to receive accurate data regarding the locations of tagged individuals during at least one day. This data is required in order to refine the risk assessment for plant protection products as part of their registration process, that might be applied to the lawn of golf courses (e.g. to counteract the development of fungal disease).

Table 1. List of target species, number of captures and tagged individuals.

Common name	Latin name	N° of captures	N° of tagged birds
Blackbird	Turdus merula	14	4
Carrion Crow	Corvus corone	7	7
Woodpigeon	Columba palumbus	2	2



Figure 1 Carrion Crow marked with GPS.



Figure 2 Blackbird marked with GPS.



Individuals of the target species were trapped using different methods in order to mount the GPS-tag on their back. Seven Carrion crows (Figure 1), four Blackbirds (Figure 2) and two Woodpigeons were tagged on the China Fleet golf course during the course of the study (Table 1).

Beside the target species some other bird species were caught in the traps, ringed and released (Table 2, Figure 3).

Table 2 Number of non-target species trapped and ringed

Common name	Latin name	N° of captures
Blackcap	Sylvia atricapilla	4
Blue Tit	Cyanistes caeruleus	8
Chaffinch	Fringilla coelebs	2
Chiffchaff	Phylloscopus collybita	6
Dunnock	Prunella modularis	2
Goldcrest	Regulus regulus	1
Goldfinch	Carduelis carduelis	2
Great Spotted Woodpecker	Dendrocopos major	1
Great Tit	Parus major	6
Long-tailed Tit	Aegithalos caudatus	2
Mistle Thrush	Turdus viscivorus	1
Nuthatch	Sitta europaea	1
Robin	Erithacus rubecula	12
Song Thrush	Turdus philomelos	1
Wren	Troglodites troglodites	8



Figure 3 Wren trapped and ringed on the golf course.



During the field work several bird species were observed in the area of the golf course (Table 3).

Table 3 List of bird species observed in the golf course during the course of the study

Common Name	Scientific Name	
Barn Swallow	Hirundo rustica	
Blackbird	Turdus merula	
Blackcap	Sylvia atricapilla	
Black-headed Gull	Chroicocephalus ridibundus	
Black-tailed Godwit	Limosa limosa	
Blue Tit	Cyanistes caeruleus	
Bullfinch	Pyrrhula pyrrhula	
Canada Goose	Branta canadensis	
Carrion Crow	Corvus corone	
Chaffinch	Fringilla coelebs	
Chiffchaff	Phylloscopus collybita	
Coal Tit	Periparus ater	
Collared-Dove	Streptopelia decaocto	
Common Buzzard	Buteo buteo	
Common Greenshank	Tringa nebularia	
Common Sandpiper	Actitis hypoleucos	
Common Shelduck	Tadorna tadorna	
Common Swift	Apus apus	
Dunnock	Prunella modularis	
Egyptian Goose	Alopochen aegyptiaca	
Eurasian Coot	Fulica atra	
Eurasian Green Woodpecker	Picus viridis	
Goldcrest	Regulus regulus	
Goldfinch	Carduelis carduelis	
Gray Heron	Ardea cinerea	
Great Cormorant	Phalacrocorax carbo	
Great Spotted Woodpecker	Dendrocopos major	
Great Tit	Parus major	
Greenfinch	Chloris chloris	
Herring Gull	Larus argentatus	
House Sparrow	Passer domesticus	
Jackdaw	Corvus monedula	
Jay	Garrulus glandarius	
Lesser Black-backed Gull	Larus fuscus	
Linnet	Linaria cannabina	
Little Egret	Egretta garzetta	
Little Grebe	Tachybaptus ruficollis	
Long-tailed Tit	Aegithalos caudatus	
Magpie	Pica pica	



Common Name	Scientific Name	
Mallard	Anas platyrhynchos	
Marsh Tit	Poecile palustris	
Mistle Thrush	Turdus viscivorus	
Moorhen	Gallinula chloropus	
Northern Wheatear	Oenanthe oenanthe	
Nuthatch	Sitta europaea	
Ring-necked Pheasant	Phasianus colchicus	
Robin	Erithacus rubecula	
Rock Pigeon	Columba livia	
Rook	Corvus frugilegus	
Sand martin	Riparia riparia	
Song Thrush	Turdus philomelos	
Sparrowhawk	Accipiter nisus	
Spotted Redshank	Tringa erythropus	
Tawny Owl	Strix aluco	
Tufted Duck	Aythya fuligula	
White Wagtail	Motacilla alba	
Willow Warbler	Phylloscopus trochillus	
Woodpigeon	Columba palumbus	
Wren	Troglodytes troglodytes	

In order to assess the presence of birds at certain sites on the golf course, motion triggered trail cameras were set up. The animals recorded by these cameras on the China Fleet golf course are listed in Table 4.

Table 4 List of bird and mammal species recorded by the trail cameras

Song Thrush

Tawny Owl

Woodpigeon

Birds		Mammals	
Common name	Latin name	Common name	Latin name
Blackbird	Turdus merula	Budger	Meles meles
Blue Tit	Cyanistes caeruleus	Dog	Canis lupus familiaris
Carrion Crow	Corvus corone	Grey Squirrel	Sciurus griseus
Chaffinch	Fringilla coelebs	Hedgehog	Erinaceus europaeus
Dunnock	Prunella modularis	Rabbit	Oryctolagus cuniculus
Great Tit	Parus major	Red Fox	Vulpes vulpes
Jackdaw	Corvus monedula	Wood Mouse	Apodemus sylvaticus
Jay	Garrulus glandarius		
Magpie	Pica pica		
Mistle Thrush	Turdus viscivorus		
Ring-necked Pheasant	Phasianus colchicus		
Robin	Erithacus rubecula		

Turdus philomelos

Strix aluco

Columba palumbus





Figure 4