Title	Breeding ecology of Blue Tits	
General metadata	Diccumg cology of Diuc Tits	
Abstract	European Physicia (Chanister agamulaus) time reproduction so the period for	
Abstract	European Blue tits (<i>Cyanistes caeruleus</i>) time reproduction so the period for rearing chicks is synchronized with the peak of abundance of caterpillars, most of which feed on young leaves of deciduous trees. A long-term study at Silwood Park aims to understand the extent to which a mismatch between breeding phenology and prey availability affects a wild population of these birds. Hundreds of nest boxes and thousands of oak trees distributed across the campus' woodlands are monitored annually since 2002 to track the breeding	
	activity of nesting tits and record the time of emergence of new oak leaves.	
Keywords	Mismatching phenology, food chain, Laying date	
T 11 . C 1		
Is this part of a larger	Yes, these observations are part of the long-term monitoring of oaks and blue	
study?	tit matching phenology study	
In dividual, Drimon,	Julia Schroeder	
Individual: Primary contact	Juna Schroeder	
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211111111111111111111111111111111111111	o o o o o o o o o o o o o o o o o o o	
Funding	Imperial College London, Department of Life Science	
Data set status and accessibility		
Status	Ongoing	
Latest update	December 2022	
Latest archive date	December 2022	
Metadata status	January 2023	
Accessibility		
Storage location and	"Research group space: SilwoodLTE", Imperial College London, ICT	
medium	department department	
Usage rights	Open access	
Cougo rigino	Open account	
Geographic metadata		
Geographic description	The study site is Silwood Park Campus from Imperial College London,	
2208125me description	1	

Bounding coordinates	Buckhurst Road, Ascot, Berkshire SL5 7PY, United Kingdom. Silwood Park campus, with about 70 ha, contains ancient woodlands and few-decades-old oak-dominated woodlands. Study oak trees have been set across the campus woodlands, which are classified as W10a, W10e and W16a using the National Vegetation Classification. Silwood Park experiences an average total annual rainfall of 700 mm with little seasonal pattern (1987-2021). Mean hourly temperature is 10.2 °C with mean max of 23 °C in July and mean min of 1.5 °C in January (1987-2021). General for Silwood Park.			
Latitude	51.411			
Longitude	-0.647			
UK National grid				
Square	SU			
Easting	94196			
Northing	68866			
Temporal metadata				
Temporal description			Missing data for season 2014	
		ject leadership and	2020 because of Covid Pandemic	
	lockdown regulations.			
Begin	2002			
End	Ongoing	Ongoing		
Taxonomic metadata				
General Information	D :C			
Taxonomic level: Order	Passeriformes			
Taxonomic level:	Table: NAMESP			
Species	Species	Common name	Species code (British Trust of Ornithology)	
	Cyanistes caeruleus	Blue Tit	BLUTI	
	Parus major	Great Tit	GRETI	
	Periparus ater	Coal tit	COATI	
	Sitta europaea	Nuthatch	NUTHA	
Methods metadata	зиш сигориси		11011111	
General experimental	There is a network of w	oodcrete nest hove	s across the campus' woodlands	
design			ue tits. Most boxes have a small	
design	-		Is have also a set of boxes with a	
			r entrances can be used by Great	
			cupied by Nuthatches and Coal Tits.	
			er and a number. Letters of boxes of	
	_		e woodland have the same letter	
			nest boxes have varied throughout	
1	the study. Typically nest boxes are moved to a neighbour tree when the host			
	tree is damaged or fallen. Several have been excluded from the experiment			
		n. Several have bee	en excluded from the experiment	
	tree is damaged or falle		en excluded from the experiment known reasons (information loss),	

	active nest boxes, 176 boxes have a small entrance (26 mm) that exclude Great Tits and 48 have a larger entrance (32mm).		
	The specific location and detailed information of when nest boxes have been in or out of the study can be found in table: Nextboxes_location.csv		
Data collection	Extracted from: Lopera Doblas (2017) Field Season Protocol -handbook.pdf		
	record the stage of ne		day 1). Monitoring aims to n first egg is laid, number of
	Females and males breeding in nestboxes are captured, measured and ringed during egg incubation, during the feeding phase (e.g. day 14) or both. Adults and chicks are fit with a ring with a unique number issued by the British Trust of Ornithology (BTO). The BTO data base has also a copy of data of all birds measured, recaptured and ringed for this project. At least from 2021 this data contains nest box location.		
	Some years up to 2015 birds were marked with colour rings beside the metal numbered ring. Females were fit with one red ring in each leg, males with a black ring in each leg. An additional 'year' colour ring was added in left leg. Chicks were fit with the 'year' colour ring. Rings colours are read from left then right leg, from top to bottom ring.		
	Table: COLO	MIRING	
	Code	Colour	
	N	Black	
	О	Orange	
	R	Red	
	X	Metal ring	
	Blood samples have been taken from adults and chicks using UK Home Office permits. Chick blood samples are taken on day 14 visit except for 2017 when day were taken day 7.		
Quality control			fferent researchers over the
		st can be found in file: ob	
	Curation of data files and creation of metadata has been done by several people. Catalina Estrada since November 2022. Please read README_DataBaseBlueTits.txt to see specific issues and decisions.		
Data table metadata	Tel. 12 1/12_2 and accept the first to see specific issues and decisions.		
Number of tables	6		
	NestBoxes_breeding	g_2015On.csv	
	Parents_2015On.cs		
	Chicks_2015On.csv		
	NestBuilding.csv		
	NextBoxes_location	ı.csv	
	observers.csv		
Format	.csv, .txt		

File name	NestBoxes_breeding_2015On.csv		
Description	Contains the usage of nest boxes throughout the breeding season starting 2015		
Size	222 KB		
Case sensitive	no		
Number or records	1731		
Number of attributes	31		
Orientation	Variables (attributes) include	ed as columi	ns
Data table structure and attribute description			
Attribute name	Definition	Type	Attribute description
NestBox_Record	Unique number for a nest box usage throughout the study.	Integer	Count Min: 1, Max: 1731
Year	Year the observations were made	Date	YYYY
			Min: 2015
NestBoxID	Name of Nest Box. Link to table: NextBoxes_location.csv Parents_2015On.csv Chicks_2015On.csv	String	Alphanumeric Nestboxes are marked with a letter and a number. In general, boxes within each woodland have the same letter.
NestBox_Fate	Whether the nest box showed any signs of been used during the season	String	Text used: if a birds build a nest AND lay eggs unused: if the nest box was empty or have a nest but not eggs were laid
Species	Common name of species that breed on nest box	String	Text Blue Tit, Great Tit, Coal tit, Nuthatch NA: none, not known or not recorded
LayingDate	Day when the first egg of the clutch was estimated to have been laid	Integer	Dates in April days starting 1st April. Example: Day -2: 29 March Day 1: 1st April Day 31: 1st May Day 62: 1st June It is assumed that a Blue Tits female will lay and egg every day. If when visiting a nestbox a single egg is found, the laying date is the date the egg was found. If two (or more) eggs are found, the laying date is the previous day (or one day per egg)
LayingDate_Estimated	Day when the laying date	Integer	Dates in April days starting 1st

	was observed		April.
			r
			This is the day when the egg laying date is recorded
			NA: when laying date is the same as observed date: there is one egg
			in the nest.
			NA: when the date of the
			observation was no reported, or nest was no used
ClutchSize_CheckDate	Day in the season when it is	Integer	Dates in April days starting 1 st
Clutcholze_checkbute	expected the female has	integer	April.
	finished laying eggs and		
	nest can be check for		NA: no eggs laid, no recorded
	Clutch size. It is estimated		
ClutchSize	as LayingDate + 15	Integer	Count
Ciuchoize	Number of eggs found in nest at the	Integer	Count
	ClutchSize_CheckDate. It		NA: no eggs laid, no recorded
	includes eggs found broken		
	or accidentally damaged by		
II . 1' Cl. 1D .	researcher	т.,	D A 1 1 1st
Hatching_CheckDate	Day in the season when is expected the eggs will	Integer	Dates in April days starting 1 st April.
	hatch. It is calculated as		April.
	LayingDate + ClutchSize		NA: no eggs laid, no recorded
	+ 11		
HatchingDate	Day when at least one egg	Integer	Dates in April days starting 1st
	was estimated to have		April.
	hatched in the clutch		NA: no eggs laid, no recorded
HatchingDate_Estimated	Day when the	Integer	Dates in April days starting 1 st
	HatchingDate was observed	moger	April.
			This is the day when the Hatching date is recorded
			date is recorded
			NA: when hatching date is the
			same as observed date: the chick
			seems to have hatched the same
			day the observation is made
Day7 CharleDay	Data mhar shirts	Tuto	NA: no eggs laid, no recorded
Day7_CheckDate	Date when chicks are expected to be 7 days old	Integer	Dates in April days starting 1 st April.
	and first set of measures		7 pm.
	can be done. Estimated as		NA: no eggs laid, no recorded
	HatchingDate + 7		,
Day7_Date	Actual date when chicks	Integer	Dates in April days starting 1 st

	about 7 days old have been counted and measured		April. NA: no eggs laid, no recorded
Day7_ChickNumber	Number of live chicks found in nest at the Day7_Date	Integer	Count NA: no eggs laid, eggs did not hatch, no recorded
Day14_CheckDate	Date when chicks are expected to be 14 days old and can be ringed and measures. Estimated as HatchingDate + 14	Integer	Dates in April days starting 1st April. NA: no eggs laid, eggs did not hatch, no live chicks found, no recorded
Day14_Day	Actual date when chicks about 14 day old have been counted and measured	Integer	Dates in April days starting 1st April. NA: no eggs laid, eggs did not hatch, all chicks found dead previously, no recorded
Day14_ ChickNumber	Number of live chicks found in nest at the Day14_Date	Integer	NA: no eggs laid, eggs did not hatch, all chicks found dead previously, no recorded
EggsUnhatched	Number of unhatched eggs found in nest. This is typically measured in Day 7 checks. In some years this might have been corrected from Number of eggs — Numbers of chicks (dead & alive)	Integer	NA: no eggs laid, no recorded
Fledge_CheckDay	Date when nest can be checked for fledging. Estimated as HatchingDate + 19	Integer	Dates in April days starting 1st April. NA: no eggs laid, eggs did not hatch, all chicks found dead previously, no recorded
Fledge_Date	Actual date when nest was checked, and it was empty	Integer	Dates in April days starting 1st April. NA: no eggs laid, eggs did not hatch, all chicks found dead previously, no recorded
Fledge_ChickNumber	Number of chicks expected to have fledged. This is estimated as the number of chicks counted in day 14 minus any dead chicks	Integer	Dates in April days starting 1st April. NA: no eggs laid, eggs did not hatch, all chicks found dead

	found in FledgeDate. In cases where this number was estimated in any other way, this is specified in Notes		previously, no recorded
FullNest_DeadDate	Date after hatching when all chicks where found dead	Date	Dates in April days starting 1 st April.
			NA: no eggs laid, eggs did not hatch, chicks fledged, no recorded
Female1_RingNumber	BTO ring number that identify female caught in	String	Alphanumeric
	nest box. Link to table: Parents_2015On.csv		NA: nest no used, female no caught
Female1_CaptureDate	Date when female was captured	Date	Dates in April days starting 1 st April.
			NA: nest no used, female no caught
Female2_RingNumber	BTO ring number that identify female caught in	String	Alphanumeric
	nest box in a second date. Link to table: Parents_2015On.csv		NA: nest no used, female no captured in a second date
Female2_CaptureDate	Second date when female was captured.	Date	Dates in April days starting 1 st April.
			NA: nest no used, female no captured
Male_RingNumber	BTO ring number that identify male caught in nest	String	Alphanumeric
	box. Link to table: Parents_2015On.csv		NA: nest no used, male no captured
Male_CaptureDate	Date when male was captured	Date	Dates in April days starting 1 st April.
			NA: nest no used, female no caught
ObserverID	Unique code for lead researcher during the year of data collection. Link to table: observers.csv	String	Code: inicial first name.second names. n.nXX for data related to initials XX initials in raw data of unknown researcher
Notes	Further information associated with nest record.	String	Text
	Field notes		NA: no recorded

File name	Parents_2015On.csv
Description	Contains information of male and females breeding in nest boxes
Size	174KB
Case sensitive	no

Number or records	1424			
Number of attributes	20			
Orientation	Variables (attributes) included as columns			
Data table structure and				
attribute description		_		
Attribute name	Definition	Type	Attribute description	
Parents_Record	Unique number for the	Integer	Count	
	capture of an adult bird		Min: 1, Max: 1425	
Year	Year the observations were made	Date	YYYY	
		~ .	Min: 2015	
NestBoxID	Name of Nest Box. Link to table: NextBoxes_location.csv NestBoxes_breeding_2015 On.csv Chicks_2015On.csv	String	Alphanumeric Nestboxes are marked with a letter and a number. In general, boxes within each woodland have the same letter.	
RingNumber	BTO ring number that identify bird caught in nest box. Link to table: NestBoxes_breeding_2015 On.csv	String	Alphanumeric	
CaptureDate	Date when bird was captured	Date	Dates in April days starting 1st April.	
			NA: no recorded	
CaptureTime	Time in the day bird was captured	Time	HH:MM British Summer Time (BST)	
Species	Species code (British Trust of Ornithology)	String	Nominal Table: NAMESP	
Sex	Sex of bird captured. BTO used criteria	String	Nominal F: female M: male	
Age	Estimated age of bird captured	Integer	EURING age codes 5: 'Hatched during previous calendar year' 6: Hatched before last calendar year' NA: no recorded	
RecordType	Whether the capture bird is a new record or recaptured bird	String	Nominal R: Recapture o a previously ringed bird N: New bird ring record	
ColourRing	Code of colour rings in legs of capture bird	String	Code for colours and position See table COLOURING NA: no colour rings present, no recorded	

BloodSample	Name of vial containing blood sample for bird	String	Consecutive numbers unique within a breeding season
Wing	Wing length defined as distance on the closed wing from the foremost extremity to the longest primary feather (BTO)	Integer	NA: no sample available Units: millimetre to the closest millimetre NA: no recorded
Tarsus	Tarsus length of bird	Floating point	Units: millimetres to 0.01 precision. Uncertain if refer to minimum or maximum Tarsus (BTO: Ringer's Manual) NA: no recorded
Head	Total head length measured from base of skull to tip of bill	Floating point	Units: millimetres to 0.01 precision. (BTO: Ringer's Manual) NA: no recorded
Beak	Bill length of bird measured from base to tip of bill or beak	Floating point	Units: millimetres to 0.01 precision. (BTO: Ringer's Manual)
Weight	Total weight of bird	Floating point	NA: no recorded Units: grams to 0.01 precision. NA: no recorded
Mites	Presence of mites on one extended wing of bird	String	Count or categories 0: no mites observed > < 10 > < 20 > 40 > 50 NA: no recorded
ObserverID	Unique code for ringer associated with record. Link to table: obervers.csv	String	Code: initial first name.second names. n.nXX for data related to initials XX initials in raw data of unknown researcher
Notes	Further information associated with bird record. Field notes	String	Text NA: no recorded

File name	Chicks_2015On.csv
Description	Contains information of chicks breeding in nest boxes
Size	559KB
Case sensitive	no
Number or records	5390

Number of attributes	22		
Orientation	Variables (attributes) include	ed as column	ıs
Data table structure and			
attribute description			
Attribute name	Definition	Type	Attribute description
Chick_Record	Unique number for the	Integer	Count
	capture of a bird		Min: 1, Max: 5391
Year	Year the observations	Date	YYYY
	were made		
			Min: 2015
NestBoxID	Name of Nest Box. Link	String	Alphanumeric
	to table:		Nestboxes are marked with a
	NextBoxes_location.csv		letter and a number. In general,
	NestBoxes_breeding_201		boxes within each woodland have
	50n.csv		the same letter.
ChickID	Parents_2015On.csv Identification of a chick	String	Mix
Cinckid	within nest. Used when	Sumg	Most years reported as
	chicks were measured at		consecutive numbers.
	day 7 and day 14		Some years reported as nail
	day / and day 14		cutting identification code:
			L: left leg
			R: right leg
			Nails 1 to 4
Species	Species code (British	String	Nominal
_	Trust of Ornithology)		Table: NAMESP
RingNumber	BTO ring number that	String	Alphanumeric
	identify bird caught in		
	nest box		NA: bird no ringed
Day7_CaptureDate	Date when bird was	Date	Dates in April days starting 1st
	captured, 7 days after		April.
	estimated hatching.		NA
Day 7 Canton Time	The de des linders	T:	NA: no capture at day 7 HH:MM
Day7_CaptureTime	Time in the day bird was	Time	
	captured, 7 days after estimated hatching.		British Summer Time (BST)
	estimated natening.		NA: no captured at day 7
Day7_Weight	Total weight of bird	Floating	Units: grams to 0.01 precision.
	Total Weight of ond	point	cints. grains to 0.01 precision.
		Point	NA: no recorded
Day14_CaptureDate	Date when bird was	Date	Dates in April days starting 1st
	captured, 14 days after		April.
	estimated hatching.		
			NA: no captured or dead at day 14
			visit
Day14_CaptureTime	Time in the day bird was	Time	HH:MM
	captured, 14 days after		British Summer Time (BST)
	estimated hatching.		
			NA: no captured or dead at day 7,

			no recorded
Day14_Wing	Wing length defined as distance on the closed wing from the foremost extremity to the longest primary feather (BTO) measured 14 days after estimated hatching	Integer	Units: millimetre to the closest millimetre NA: no recorded
Day14_Tarsus	Tarsus length of bird measured 14 days after estimated hatching	Floating point	Units: millimetres to 0.01 precision. Uncertain if refer to minimum or maximum Tarsus (BTO: Ringer's Manual) NA: no recorded
Day14_Head	Total head length measured from base of skull to tip of bill measured 14 days after estimated hatching	Floating point	Units: millimetres to 0.01 precision. (BTO: Ringer's Manual) NA: no recorded
Day14_Beak	Bill length of bird measured from base to tip of bill or beak measured 14 days after estimated	Floating point	Units: millimetres to 0.01 precision. (BTO: Ringer's Manual)
Day14_Weight	hatching Total weight of bird measured 14 days after estimated hatching	Floating point	NA: no recorded Units: grams to 0.01 precision. NA: no recorded
Day14_Mites	Presence of mites on one extended wing of bird estimated 14 days after estimated hatching	String	Count or categories 0: no mites observed < 5 > < 10 > < 20
BloodSample	Name of vial containing blood sample for bird	String	NA: no recorded Consecutive numbers unique within a breeding season
Fledge_Date	Date when nest was checked, and it was empty. Bird expected to have fledge if dead body is not found on nest	Integer	NA: no sample available Dates in April days starting 1 st April. NA: Bird dead, no recorded
Dead_Date	Date when nest was checked bird was found dead	Integer	Dates in April days starting 1 st April. NA: Bird fledged, no recorded
ObserverID	Unique code for ringer associated with record.	String	Code: initial first name.second names. n.nXX for data related to

	Link to table: observers.csv		initials XX initials in raw data of unknown researcher
Notes	Further information	String	Text
	associated with bird		
	record. Field notes		NA: no recorded

NestBuilding.csv Gives information of the stabreeding season	age of nest	development at the start of the		
breeding season		Gives information of the stage of nest development at the start of the		
breeding season				
40KB				
no				
421				
6				
Variables (attributes) include	d as columr	ns		
	1			
<u> </u>	Type	Attribute description		
	Integer	Count		
		Min: 1, Max: 421		
	Date	YYYY		
made				
		Min: 2022		
	String	Alphanumeric		
		Nestboxes are marked with a		
		letter and a number. In general,		
_		boxes within each woodland have		
		the same letter.		
_	D .	D. A. H. L. A. C. L. C.		
	Date	Dates in April days starting 1 st		
made		April.		
		March $31^{st} = 0$		
		March $18^{t} = -1$		
Nivershau wan wasanting the	Chrima	March 1 st = -30 Score		
	String			
		0: nest box empty 0.25: evidence that nest building		
liest the day of visit		has started c.c. a few pieces of		
		moss		
		0.5: layer of moss has been laid		
		out and shaped		
		1: a layer of soft material has been		
		laid out (feathers, hair, wool)		
Unique code for ringer	String	Code: initial first name.second		
	201115	names. n.nXX for data related to		
		initials XX initials in raw data of		
		unknown researcher, XX.ug id		
		data taken as part of an		
		undergraduate course		
Link to a photograph of the	String	Links deposited in Epicollect5		
nest		projects		
	Definition Unique number for the nest observations Year the observations were made Name of Nest Box. Link to tables: NextBoxes_location.csv NestBoxes_breeding_2015 On.csv Parents_2015On.csv Date when observation was made Number representing the stage of development of nest the day of visit Unique code for ringer associated with record. Link to table: observers.csv	Definition Unique number for the nest observations Year the observations were made Name of Nest Box. Link to tables: NextBoxes_location.csv NestBoxes_breeding_2015 On.csv Parents_2015On.csv Date when observation was made Number representing the stage of development of nest the day of visit Unique code for ringer associated with record. Link to table: observers.csv Link to a photograph of the String		

	NA: not link or photograph
	avanable

File name	Observers.csv		
Description	Gives information of people involved in data collection		
Size	2KB		
Case sensitive	no		
Number or records	20		
Number of attributes	6		
Orientation	Variables (attributes) include	d as columr	ns
Data table structure and attribute description			
Attribute name	Definition	Type	Attribute description
ObserverID	Unique code. Link to tables Nextboxes_location.csv Parents_2015On.csv Chicks_2015On.csv	String	Code: initial first name.second names. n.nXX for data related to initials XX initials in raw data of unknown researcher
FirstName	Observer first name	String	Text
SecondName	Observer second name	String	Text
Email	Observer email address when participated in project	String	Text NULL: unknown
ObserverType	Observers position at Imperial College London or other institution during data collection	String	Codes proj.stu: Master or Undergraduate student proj.staff: Project leaders or technicians amat.vis: visitor NULL: unknown
Notes	Further information associated with researcher	String	Text

File name	NextBoxes_location.csv		
Description	Give information about the location and type of Blue and Great Tit nest		
	boxes		
Size	25KB		
Case sensitive	No		
Number or records	340		
Number of attributes	12		
Orientation	Variables (attributes) included as columns		
Files used to fill data	Read README_DataBaseOaks.txt to find out how this table was built		
Data table structure and			
attribute description			
Attribute name	Definition	Type	Attribute description
NestBoxID	Name of Nest Box. Link to	String	Alphanumeric
	tables		Nestboxes are marked with a

	NestBoxes_breeding_2015O n.csv Parents_2015On.csv Chicks_2015On.csv		letter and a number. In general, boxes within each woodland have the same letter.
Туре	Type of nest box, determined by the size of entrance hole	Integer	Nominal 26: entrance hole is 26 mm diameter 32: entrance hole is 26 mm diameter
TreeID	Unique number given to each tree, Link to table trees.cvs in Oaks DataBase	Integer	NA: unknown
latitude	Latitude: north-south position WGS84	Floating point	Geographic coordinate in decimal degrees NA: unknown
longitude	Longitude: east-west position WGS84	Floating point	Geographic coordinate in decimal degrees NA: unknown
northing	Great Britain, National Grid, northing (Ordnance Survey)	Floating point	Geographic coordinate NA: unknown
easting	Great Britain, National Grid, easting (Ordnance Survey)	Floating point	Geographic coordinate NA: unknown
species	Scientific name of species of tree where nest box is located	String	NA: unknown
InOut	Whether the tree (TreeID) currently host a nest box	String	In: Nest box is currently on this tree Out: Nest box was moved to other tree or taken out of the study
action	Whether the nest box (NestBoxID) was introduced or removed from a tree (TreeID) in the given date/year	String	set: nest box hanged on tree out: nest box removed form tree
year	If action set: year of the first breeding season when tree (TreeID) hosted nest box (NestBoxID) If action out: year of the last breeding season when tree (TreeID) hosted nest box (NestBoxID)	Date	YYYY
date	Day when a NestBoxID was set up (set) or taken down from a tree (TreeID) (out)	Date	DD/MM/YYYY NA: not known

Data anomalies	
	README_DataBaseOaks contains information of data curation for table NestBoxes_location.csv

README_DataBaseBlueTits contains information of data curation for other tables described here.
Location of nest boxes in territory K (NestBoxID: K01 to K12), E09, E14, E19, J11 were estimated from a printed map.
Date of set up, removal or changes of nest boxes location was not recorded before 2019. The year of nest boxes set up or removal before 2019 have been derived from the breeding records.

Supplemental descriptors	
Publications	6
Website	https://www.imperial.ac.uk/silwood-park/research/silwood-lte/blue-tits/
How to cite database	Contact c.estrada@imperial.ac.uk
How to acknowledge	Contact c.estrada@imperial.ac.uk
dataset	
Additional information	Sampling protocoles can be found in: Lopera Doblas (2017) Field Season
	Protocol, file: handbook.pdf
	Oak databse
	Maps showing nest boxes and trees in google, GIS