

SPI-BIRDS NETWORK AND DATABASE

APPENDICES TO

SPI-BIRDS STANDARD FORMAT:
A STANDARD PROTOCOL FOR THE
COLLECTION OF INDIVIDUAL-LEVEL BIRD
DATA

VERSION 2.0.0

4 JULY 2025

PRODUCED BY:

SPI-BIRDS TEAM
& SPI-BIRDS NETWORK

Contents

1	Introduction	2
2	Appendices	3
A	List of species	3
B	List of study sites	6
C	List of field studies	11
D	Decision tree for <code>calculatedClutchType</code>	18

1 Introduction

This document is created as part of the **SPI-Birds Network and Database** (www.spibirds.org). SPI-Birds is an international network of researchers and others who collect data on populations of individually marked birds, with the aim to improve data accessibility and transparency and to facilitate data reuse and collaboration.

This document lists the appendices to the newest version of **SPI-Birds' standard protocol**. Each appendix provides subsidiary matter to one or more variables (**highlighted in red**) of the standard format.

2 Appendices

A List of species

This table includes all study species ([speciesID](#)) that are part of SPI-Birds. For more information see: www.spibirds.org. Scientific names are the species identifiers used in [version 2.0.0](#) of the SPI-Birds standard protocol and follow the taxonomy administered by the Integrated Taxonomic Information System ([ITIS](#)). The Taxonomic Serial Number (TSN) is the unique identifier system used by ITIS. The six-letter species codes were originally used in [version 1.0.0](#) and [version 1.1.0](#) of the SPI-Birds standard protocol.

Code	Common name	Scientific name	TSN
PARMAJ	Great tit	<i>Parus major</i>	561864
CYACAE	Blue tit	<i>Cyanistes caeruleus</i>	559612
FICHYP	Pied flycatcher	<i>Ficedula hypoleuca</i>	560081
SITEUR	Eurasian nuthatch	<i>Sitta europaea</i>	563018
PERATE	Coal tit	<i>Periparus ater</i>	561927
PASMON	Eurasian tree sparrow	<i>Passer montanus</i>	179630
FICALB	Collared flycatcher	<i>Ficedula albicollis</i>	560071
POEPAL	Marsh tit	<i>Poecile palustris</i>	562354
POECIN	Siberian tit	<i>Poecile cinctus</i>	554384
PHOPHO	Common redstart	<i>Phoenicurus phoenicurus</i>	562037
JYNTOR	Eurasian wryneck	<i>Jynx torquilla</i>	178150
LOPCRI	European crested tit	<i>Lophophanes cristatus</i>	560873
EMBREL	Black-headed bunting	<i>Emberiza melanocephala</i>	554227
PRUMOD	Dunnock	<i>Prunella modularis</i>	562489
CORMON	Eurasian jackdaw	<i>Corvus monedula</i>	916629
CERFAM	Eurasian treecreeper	<i>Certhia familiaris</i>	178795
STRALU	Tawny owl	<i>Strix aluco</i>	555428
POEVAR	Varied tit	<i>Poecile varius</i>	916510
PARMIN	Japanese tit	<i>Parus minor</i>	916512
STEHIR	Common tern	<i>Sterna hirundo</i>	176888
THACHL	Atlantic yellow-nosed albatross	<i>Thalassarche chlororhynchos</i>	554452
PHOFUS	Sooty albatross	<i>Phoebastria fusca</i>	174530
MACGIG	Southern giant petrel	<i>Macronectes giganteus</i>	174594
DIODAB	Tristan albatross	<i>Diomedea dabbenena</i>	824053
OCELEU	Leach's storm petrel	<i>Oceanodroma leucorhoa</i>	174628
CALALB	Sanderling	<i>Calidris alba</i>	176669

PERINF	Siberian jay	<i>Perisoreus infaustus</i>	561934
POEMON	Willow tit	<i>Poecile montanus</i>	562353
TACBIC	Tree swallow	<i>Tachycineta bicolor</i>	178431
PASSAN	Savannah sparrow	<i>Passerculus sandwichensis</i>	179314
HAEOST	Eurasian oystercatcher	<i>Haematopus ostralegus</i>	176469
PASDOM	House sparrow	<i>Passer domesticus</i>	179628
STUVUL	Common starling	<i>Sturnus vulgaris</i>	179637
CERBRA	Short-toed treecreeper	<i>Certhia brachydactyla</i>	559138
TURMER	Common blackbird	<i>Turdus merula</i>	179757
OENOEN	Northern wheatear	<i>Oenanthe oenanthe</i>	179814
CHANIV	Snowy plover	<i>Charadrius nivosus</i>	824030
URIAAL	Common guillemot	<i>Uria aalge</i>	176974
FULATR	Eurasian coot	<i>Fulica atra</i>	176290
AEGFUN	Boreal owl	<i>Aegolius funereus</i>	177938
DICHOT	Hair-crested drongo	<i>Dicrurus hottentottus</i>	559767
LARHYP	Glaucous gull	<i>Larus hyperboreus</i>	176808
PUFMAU	Balearic shearwater	<i>Puffinus mauretanicus</i>	723254
RHYJUB	Kagu	<i>Rhynochetos jubatus</i>	176405
ACRARU	Great reed-warbler	<i>Acrocephalus arundinaceus</i>	558408
SPHDEM	African penguin	<i>Spheniscus demersus</i>	174462
THAMEL	Black-browed albatross	<i>Thalassarche melanophris</i>	554453
GYPBAR	Bearded vulture	<i>Gypaetus barbatus</i>	175483
CALDIO	Scopoli's shearwater	<i>Calonectris diomedea</i>	203446
FALTIN	Common kestrel	<i>Falco tinnunculus</i>	175620
GLAPAS	Eurasian pygmy owl	<i>Glaucidium passerinum</i>	555445
EMBAUR	Yellow-breasted bunting	<i>Emberiza aureola</i>	554225
EMBSCH	Common reed bunting	<i>Emberiza schoeniclus</i>	179543
EMBYES	Japanese reed bunting	<i>Emberiza yessoensis</i>	559896
EMBFUC	Chestnut-eared bunting	<i>Emberiza fucata</i>	559881
EMBSPO	Black-faced bunting	<i>Emberiza spodocephala</i>	559890
LUSCAL	Siberian rubythroat	<i>Luscinia calliope</i>	179820
HIRRUS	Barn swallow	<i>Hirundo rustica</i>	178448
FALAMU	Amur falcon	<i>Falco amurensis</i>	560066
PPSERI	Oriental magpie	<i>Pica pica serica</i>	924168
LLLIMO	Western black-tailed godwit	<i>Limosa limosa limosa</i>	176693
NUMPHA	Eurasian whimbrel	<i>Numenius phaeopus</i>	176599
BUCLEA	Southern ground hornbill	<i>Bucorvus leadbeateri</i>	554468
TURBIC	Southern pied babbler	<i>Turdoides bicolor</i>	563537
SIASIA	Eastern bluebird	<i>Sialia sialis</i>	179801
CICCIC	White stork	<i>Ciconia ciconia</i>	174907

PHISOC	Sociable weaver	<i>Philetairus socius</i>	562003
PHYCAB	Cabanis's greenbul	<i>Phyllastrephus cabanisi</i>	562064
STEALB	Little tern	<i>Sternula albifrons</i>	824126
PLUDOM	American golden plover	<i>Pluvialis dominica</i>	176564
CALBAI	Baird's sandpiper	<i>Calidris bairdii</i>	176655
CALSUB	Buff-breasted sandpiper	<i>Calidris subruficollis</i>	1192598
CALALP	Dunlin	<i>Calidris alpina</i>	176661
LIMSCO	Long-billed dowitcher	<i>Limnodromus scolopaceus</i>	176679
CALMEL	Pectoral sandpiper	<i>Calidris melanotos</i>	176653
PHAFUL	Red phalarope	<i>Phalaropus fulicarius</i>	176734
PHALOB	Red-necked phalarope	<i>Phalaropus lobatus</i>	176735
AREINT	Ruddy turnstone	<i>Arenaria interpres</i>	176571
CALPUS	Semipalmated sandpiper	<i>Calidris pusilla</i>	176667
CALMAU	Western sandpiper	<i>Calidris mauri</i>	176668
CALFUS	White-rumped sandpiper	<i>Calidris fuscicollis</i>	176654
PCSINE	Continental great cormorant	<i>Phalacrocorax carbo sinensis</i>	824231
FALNAU	Lesser kestrel	<i>Falco naumanni</i>	175646
AMMSAV	Grasshopper sparrow	<i>Ammodramus savannarum</i>	179333
STUMAG	Eastern meadowlark	<i>Sturnella magna</i>	179034
SPIAME	Dickcissel	<i>Spiza americana</i>	179165
CORGAR	European roller	<i>Coracias garrulus</i>	554518
OTUSCO	Eurasian scops owl	<i>Otus scops</i>	555376
ATHNOC	Little owl	<i>Athene noctua</i>	555471
CALBOR	Cory's shearwater	<i>Calonectris borealis</i>	1255047

This table is available in our GitHub repository: [species_codes.csv](#).

B List of study sites

This table includes all study sites (**siteID**) that are part of SPI-Birds. For more information see: www.spibirds.org.

siteID	siteName	country
AMM	Ammersee-Starnbergersee	Germany
ANS	Anserdennen	Netherlands
APN	Associated Private Nature Reserves	South Africa
APP	Appelscha	Netherlands
ARV	Arvidsjaur	Sweden
ASK	Askainen	Finland
BAG	Bagley Wood	UK
BAH	Bahía de Ceuta	Mexico
BAL	Balatonfüred	Hungary
BAN	Bandon Valley	Ireland
BAS	Banter See	Germany
BER	Berkenheuvel	Netherlands
BFN	Benfontein	South Africa
BIR	Bird Island	USA
BOS	Boshok	Belgium
BRG	Bergen's Arboretum	Norway
BRZ	Berzciems	Latvia
BUU	Buunderkamp	Netherlands
CAC	Can Catà	Spain
CAN	Cañada de los Pájaros	Spain
CAS	Cashel Farm Forest	UK
CBG	Cambridge University Botanic Garden	UK
CHH	Cherry Hinton Hall	UK
CHO	Choupal	Portugal
COI	Coats Island	Canada
CON	Cornwall	UK
DAE	Dæli	Norway
DAL	Dalmeny	UK
DAZ	Dazlina-Ivinj	Croatia
DIN	Dinas	UK
DLO	Dlouhá Loučka	Czechia
DNN	Dongzhai National Nature Reserve	China
DON	Doñana	Spain
DUN	Dunedin Botanic Garden	New Zealand

siteID	siteName	country
DVZ	Dieverzand	Netherlands
DWI	Dwingeloo	Netherlands
DWZ	Dwingelderzand	Netherlands
EDM	East Dartmoor	UK
FOR	Forstenrieder Park	Germany
GAR	Garscube Campus	UK
GBZ	Guadix-Baza	Spain
GLI	Glimmen	Netherlands
GOT	Gotland	Sweden
GOU	Gough Island	UK
GRO	Grobla-Niepołomice Forest	Poland
GTM	Greater Manchester	UK
GUL	Gulya-domb	Hungary
GVS	Grand Valley State University campus	USA
HAR	Harjavalta	Finland
HOC	Hochstadt	Germany
HOG	Hoge Veluwe	Netherlands
HSF	Hochstetter Forland	Greenland
JNV	Jura Nord-Vaudois	Switzerland
KAT	Loch Katrine	UK
KAU	Kauhava	Finland
KEI	Kent Island	Canada
KEL	Kelvingrove Park	
KEV	Kevo	Finland
KIL	Kilingi-Nõmme	Estonia
KPB	Konza Prairie Biological Station	USA
KRI	Krievrags	Latvia
KRR	Kuruman River Reserve	South Africa
KUJ	Kujukurihama	Japan
KUU	Kuusamo	Finland
KVI	Lake Kvismaren	Sweden
LAH	La Hiruela	Spain
LAK	Lakselvdalen	Norway
LAN	Lancaster	UK
LAS	Lasy Szwałewskie	Poland
LBZ	Lheebroekerzand	Netherlands
LDZ	Lodz	Poland
LES	Leszno	Poland
LIE	Liesbos	Netherlands
LIN	Linosa Island	Italy
LLE	Lleida	Spain

siteID	siteName	country
LMA	La Maddalena Archipelago	Italy
LUN	Lundy Island	UK
MAL	Malmö	Sweden
MAR	Mariola	Spain
MAT	Matera	Italy
MAY	Mayachino	Russia
MDM	Maloti-Drakensberg Mountains	South Africa
MET	Metu	Turkey
MIA	Maria	Netherlands
MIE	Mierzeja Wiślana	Poland
MIR	Miraflores	Spain
MIS	Miscellaneous populations	France
MON	Montpellier City	France
MOU	Moulis	France
MRC	Murcia	Spain
MSC	Montesclaros	Spain
MTV	Mont Ventoux	France
MUP	Muraviovka Park	Russia
MUR	Muro	France
MYQ	Menyuan, Qinghai	China
MZR	Midzomer	Netherlands
NAG	Forest of Dean	UK
NEW	New Island	Falkland Islands (Malvinas)
NIT	Northern Italy	Italy
NMI	North Monomoy Island	USA
NVD	Nord Vaudois	Switzerland
OKE	Okehampton	UK
OOS	Oosterhout	Netherlands
OUL	Oulu	Finland
OWM	Oude Willem	Netherlands
PEE	Peerdsbos	Belgium
PET	Petrozavodsk	Russia
PEW	Peerdsbos West	Belgium
PGF	Parc Provincial des Grandes Fougères	New Caledonia
PHW	Phenoweb	UK
PIL	Pilis-Visegrád Mountains	Hungary
PIR	Pirio	France
PRB	Parc Provincial de la Rivière Bleue	New Caledonia
RAD	Radofzell	Germany
RAM	Ram Island	USA
REV	Revinge	Sweden

siteID	siteName	country
RNW	Revda Northwest-2	Russia
RSW	Revda Southwest-1.5	Russia
RWA	Revda West-16	Russia
RWB	Revda West-20	Russia
RWC	Revda West-27	Russia
RWD	Revda West-1	Russia
RWE	Revda West-5.5	Russia
RWF	Revda West-8	Russia
RWG	Revda West-4	Russia
RWH	Revda West-6.5	Russia
RWN	Revda West-Northwest-5	Russia
ROB	Robertsau	France
ROM	Rome	Italy
ROU	Rouvière	France
RUI	Ruinen	Netherlands
SAG	Sagunto	Spain
SAL	Sallochry	UK
SCE	Scene	UK
SCL	Sa Cella	Spain
SEK	Sekocin Forest	Poland
SFL	Schöpfl	Austria
SIL	Silwood	UK
SKG	Schiermonnikoog	Netherlands
SLL	Southern Lowlands	Iceland
SOB	Sobieszewo	Poland
SQB	Southern Québec	Canada
SSQ	Santo Stefano Quisquina	Italy
STO	Stogi	Poland
STK	Stora Karlsö	Sweden
STP	Stony Point	South Africa
STR	Strasbourg	France
SVG	Selvagem Grande	Portugal
SWF	Southwest Friesland	Netherlands
SZE	Szentgál	Hungary
TAH	Taita Hills	Kenya
TEI	Teign Valley	UK
TOM	Tomakomai	Japan
TOR	Torenlaan	Netherlands
UPP	Uppsala	Sweden
UTQ	Utqiagvik	USA
VAL	Valsaín	Spain

siteID	siteName	country
VEL	Velký Kosíř	Czechia
VES	Veszprém	Hungary
VIL	Vilma-pusztá	Hungary
VLI	Vlieland	Netherlands
VOM	Vomb Fure	Sweden
VOR	Vorsø	Denmark
VOS	Vosbergen	Netherlands
WAN	Wantzenau	France
WAR	Warnsbörn	Netherlands
WEP	Westeinderplassen	Netherlands
WES	Westerheide	Netherlands
WHZ	Westerholtz	Germany
WIL	Wilrijk	Belgium
WRS	Warsaw	Poland
WYT	Wytham Woods	UK
ZEL	Zeltaleja	Latvia
ZER	Zeromski Park	Poland
ZVE	Zvenigorod	Russia

This table is available in our GitHub repository: [site_codes.csv](#).

C List of field studies

This table includes field studies (**studyID**) that are part of SPI-Birds. Note: multiple field studies can be conducted at a single study site (**siteID**). **pipelineID** is the three- or four-letter code of the pipeline, often derived from the person or organisation having custody of the data (**custodianName**) collected at the field study. Pipelines are available on [GitHub](#) as R scripts (`format_<pipelineID>.R`) For more information see: www.spibirds.org.

studyID	siteID	custodianName	pipelineID
AMM-1	AMM	Ludwig-Maximilian University	AMM
ANS-1	ANS	University of Groningen	
APN-1	APN	FitzPatrick Institute of African Ornithology	
APP-1	APP	University of Groningen	
ARV-1	ARV	University of Konstanz	
ASK-1	ASK	University of Turku	
BAG-1	BAG	Simon Evans, University of Exeter	
BAH-1	BAH	Clemens Küpper, Max Planck Institute for Biological Intelligence	
BAL-1	BAL	University of Pannonia	BAN
BAN-1	BAN	University College Cork	
BAS-1	BAS	Institute of Avian Research	
BER-1	BER	University of Groningen	
BFN-1	BFN	Rita Covas, CIBIO	
BIR-1	BIR	Ian Nisbet	UAN
BOS-1	BOS	Evolutionary Ecology Group, University of Antwerp	
BRG-1	BRG	Department of Biological Sciences, University of Bergen	NIOO
BRZ-1	BRZ	Martins Briedis, University of Latvia	
BUU-1	BUU	Netherlands Institute of Ecology (NIOO-KNAW)	
CAC-1	CAC	Museu de Ciències Naturals de Barcelona	GLA
CAN-1	CAN	Estación Biológica de Doñana	
CAS-1	CAS	University of Glasgow	
CBG-1	CBG	Julia Mackenzie, Anglia Ruskin University	
CHH-1	CHH	Julia Mackenzie, Anglia Ruskin University	CHO
CHO-1	CHO	Marine and Environmental Sciences Centre	
COI-1	COI	Kyle Elliott, McGill University	

studyID	siteID	custodianName	pipelineID
DAE-1	DAE	University of Oslo	PFN
DAL-1	DAL	University of Edinburgh	
DAZ-1	DAZ	Croatian Academy of Sciences and Arts, Institute of Ornithology	
DIN-1	DIN	PiedFly.Net	
DLO-1	DLO	Palacky University	
DNN-1	DNN	Lei Lv, Southern University of Science and Technology	
DON-1	DON	Estación Biológica de Doñana	PFN
DUN-1	DUN	University of Otago	
DVZ-1	DVZ	University of Groningen	
DWI-1	DWI	University of Groningen	
DWZ-1	DWZ	University of Groningen	
EDM-1	EDM	PiedFly.Net	
FOR-1	FOR	Ludwig-Maximilian University	GLA
GAR-1	GAR	University of Glasgow	
GBZ-1	GBZ	Deseada Parejo, Jesús Avilés, CSIC	
GLI-1	GLI	University of Groningen	
GOT-1	GOT	Jagiellonian University	
GOT-2	GOT	Laboratory of Biometry and Evolutionary Biology CNRS	
GOU-1	GOU	RSPB	GRO
GRO-1	GRO	Jagiellonian University	
GUL-1	GUL	University of Pannonia	
GVS-1	GVS	Michael Lombardo, Grand Valley State University	
GTM-1	GTM	Sue Anne Zollinger, Manchester Metropolitan University	
HAR-1	HAR	University of Turku	HAR
HOC-1	HOC	Max Plank Institute for Ornithology	HOC
HOG-1	HOG	Netherlands Institute of Ecology (NIOO-KNAW)	NIOO
HSF-1	HSF	Université de Franche Comté	PFN
JNV-1	JNV	Groupe Ornithologique de Baulmes et Environs	
KAT-1	KAT	PiedFly.Net	
KAU-1	KAU	Erkki Korpimäki, University of Turku	
KEI-1	KEI	Bowdoin Scientific Station	
KEL-1	KEL	University of Glasgow	
KEV-1	KEV	University of Turku	KEV
KIL-1	KIL	University of Tartu	KIL

studyID	siteID	custodianName	pipelineID
KPB-1	KPB	Alice Boyle, Kansas State University	NIOO
KRI-1	KRI	Martins Briedis, University of Latvia	
KRR-1	KRR	Amanda Ridley, University of Western Australia	
KUJ-1	KUJ	Masaharu Hayakawa, Uekusa Gakuen University	
KUU-1	KUU	University of Oulu	
KVI-1	KVI	Dennis Hasselquist, Lund University	
LAH-1	LAH	La Hiruela	
LAK-1	LAK	Norwegian Institute for Nature Research	
LAN-1	LAN	Lancaster University	
LAS-1	LAS	Ornithological Station, Museum and Institute of Zoology, Polish Academy of Sciences	
LBZ-1	LBZ	University of Groningen	
LES-1	LES	Poznań University of Life Sciences	
LDZ-1	LDZ	Piotr Minias, University of Lodz	
LIE-1	LIE	Netherlands Institute of Ecology (NIOO-KNAW)	
LIN-1	LIN	Giacomo Dell'Omo, Ornis Italica	
LLE-1	LLE	Daniel Sol, CSIC	
LMA-1	LMA	Jacopo G. Cecere, ISPRA	
LUN-1	LUN	University of Sheffield	
MAL-1	MAL	Lund University	
MAR-1	MAR	Universitat Politècnica de València	
MAT-1	MAT	Diego Rubolini, Università degli Studi di Milano	
MAY-1	MAY	Karelian Research Centre, Russian Academy of Sciences	
MDM-1	MDM	Ezemvelo KZN Wildlife	
MET-1	MET	Middle East Technical University	
MIA-1	MIA	University of Groningen	
MIE-1	MIE	Ornithological Station, Museum and Institute of Zoology, Polish Academy of Sciences	
MIR-1	MIR	National Museum of Natural Sciences, Madrid	
MIS-1	MIS	CEFE CNRS	
MON-1	MON	CEFE CNRS	
MOU-1	MOU	SETE CNRS	
MRC-1	MRC	University of Murcia	
			MON

studyID	siteID	custodianName	pipelineID
MSC-1	MSC	La Hiruela	MON
MTV-1	MTV	CEFE CNRS	
MUR-1	MUR	CEFE CNRS	
MYQ-1	MYQ	Tianhao Zhao, Chinese Academy of Science	
MZR-1	MZR	University of Groningen	PFN
NAG-1	NAG	PiedFly.Net	
NEW-1	NEW	Paulo Catry, Ispa	
NIT-1	NIT	Diego Rubolini, Università degli Studi di Milano	
NMI-1	NMI	Ian Nisbet	PFN NIOO
NVD-1	NVD	Pierre Alain Ravussin, Groupe Ornithologique de Baulmes et Environs	
OKE-1	OKE	PiedFly.Net	
OOS-1	OOS	Netherlands Institute of Ecology (NIOO-KNAW)	
OUL-1	OUL	University of Oulu	UAN
OWM-1	OWM	University of Groningen	
PEE-1	PEE	Evolutionary Ecology Group, University of Antwerp	
PET-1	PET	Karelian Research Centre, Russian Academy of Sciences	
PEW-1	PEW	Behavioural Ecology and Ecophysiology Group, University of Antwerp	PIL
PGF-1	PGF	Jörn Theuerkauf, Polish Academy of Sciences	
PHW-1	PHW	Ally Phillimore, University of Edinburgh	
PIL-1	PIL	Department of Systematic Zoology and Ecology, Eötvös Loránd University	
PIR-1	PIR	CEFE CNRS	MON
PRB-1	PRB	Jörn Theuerkauf, Polish Academy of Sciences	
RAD-1	RAD	Max Plank Institute of Animal Behavior	
RAM-1	RAM	Ian Nisbet	
REV-1	REV	Jan-Åke Nilsson, Lund University	MON
REV-2	REV	Hannah Watson, Johan Nilsson, Lund University	
RNW-1	RNW	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
ROB-1	ROB	Institut Pluridisciplinaire Hubert Curien	
ROM-1	ROM	David Costantini, University of Tuscia	

studyID	siteID	custodianName	pipelineID
ROU-1	ROU	CEFE CNRS	MON
RSW-1	RSW	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RUI-1	RUI	University of Groningen	
RWA-1	RWA	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWB-1	RWB	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWC-1	RWC	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWD-1	RWD	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWE-1	RWE	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWF-1	RWF	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWG-1	RWG	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWH-1	RWH	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
RWN-1	RWN	Eugen Belskii, Ural Branch, Russian Academy of Sciences	
SAG-1	SAG	Cavanilles Institute of Biodiversity and Evolutionary Biology	
SAL-1	SAL	University of Glasgow	
SCE-1	SCE	University of Glasgow	
SCL-1	SCL	Daniel Oro, CSIC	GLA
SEK-1	SEK	Museum and Institute of Zoology, Polish Academy of Sciences	
SFL-1	SFL	University of Natural Resources and Life Sciences	
SIL-1	SIL	Imperial College London	
SKG-1	SKG	Dutch Centre for Field Ornithology	
SLL-1	SLL	Camilo Carneiro, South Iceland Research Centre	SSQ
SOB-1	SOB	Ornithological Station, Museum and Institute of Zoology, Polish Academy of Sciences	
SQB-1	SQB	Centre de Recherche en Écologie de l'Université de Sherbrooke	
SSQ-1	SSQ	Santo Stefano Quisquina	

studyID	siteID	custodianName	pipelineID
STK-1	STK	Jonas Hentati Sundberg, Swedish University of Agricultural Sciences	PFN
STO-1	STO	Ornithological Station, Museum and Institute of Zoology, Polish Academy of Sciences	
STP-1	STP	Livio Favaro, University of Turin	
STR-1	STR	Institut Pluridisciplinaire Hubert Curien	
SVG-1	SVG	Paulo Catry, MARE, Ispa	
SWF-1	SWF	Jos Hooijmeijer, University of Groningen, BirdEyes	
SZE-1	SZE	University of Pannonia	
TAH-1	TAH	Terrestrial Ecology, Ghent University	
TEI-1	TEI	PiedFly.Net	
TOM-1	TOM	Hokkaido University	
TOR-1	TOR	University of Groningen	
UPP-1	UPP	Debora Arlt, SLU Swedish University of Agricultural Sciences	
UTQ-1	UTQ	Richard Lanctot, United States Fish and Wildlife Service	
VAL-1	VAL	National Museum of Natural Sciences, Madrid	VEL
VEL-1	VEL	Palacky University	
VES-1	VES	University of Pannonia	
VIL-1	VIL	University of Pannonia	NIOO
VLI-1	VLI	Netherlands Institute of Ecology (NIOO-KNAW)	
VOM-1	VOM	Lund University	NIOO
VOR-1	VOR	Department of Ecoscience, Aarhus University	
VOS-1	VOS	University of Groningen	NIOO
WAN-1	WAN	Institut Pluridisciplinaire Hubert Curien	
WAR-1	WAR	Netherlands Institute of Ecology (NIOO-KNAW)	NIOO
WEP-1	WEP	Netherlands Institute of Ecology (NIOO-KNAW)	
WES-1	WES	Netherlands Institute of Ecology (NIOO-KNAW)	NIOO
WHZ-1	WHZ	Max Planck Institute for Ornithology	
WIL-1	WIL	Behavioural Ecology and Ecophysiology Group, University of Antwerp	

studyID	siteID	custodianName	pipelineID
WRS-1	WRS	Wild Urban Evolution & Ecology Lab, University of Warsaw	WYT
WYT-1	WYT	Edward Grey Institute, Department of Zoology, University of Oxford	
ZEL-1	ZEL	Martins Briedis, University of Latvia	
ZER-1	ZER	Dariusz Wysocki, University of Szczecin	
ZVE-1	ZVE	Lomonosov Moscow State University	

This table is available in our GitHub repository: [study_codes.csv](#).

D Decision tree for `calculatedClutchType`

See next page.

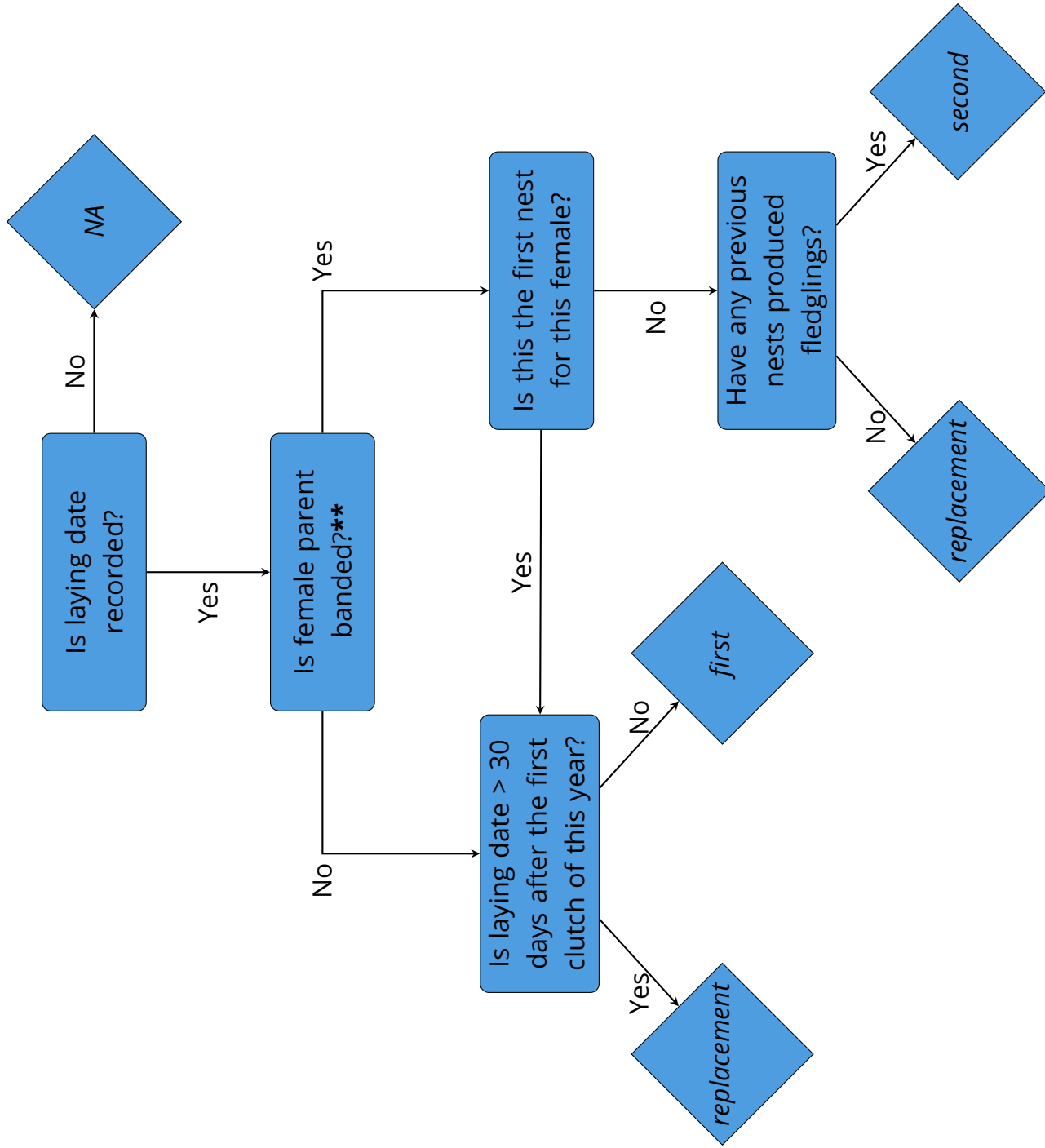


Figure 1: Decision tree for calculating **calculatedClutchType**.

**We assume any female with a previous successful clutch in the breeding season will have been caught and ringed. Therefore, the brood of an unringed female can only be replacement or first.