

**CODE MANUAL:  
NEW EURING**

# EURING

*(THE EUROPEAN UNION FOR BIRD RINGING)*

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## FOREWORD

EURING, the European Union for Bird Ringing, was founded in 1963 for the purpose of promoting and facilitating co-operation between the European ringing schemes. One of its first and most difficult tasks was to agree a code whereby ringing recoveries could be committed to punch cards, and it was not until the end of 1966 that the EURING Code Manual was finally issued.

The code, which had been the subject of so much debate, worked well, but in a limited field. It had been devised with electro-mechanical counter-sorters in mind, and made much use of overpunches in order to minimise the number of passes through the sorters. When, however, researchers attempted to write computer programs in order to ease the handling of large volumes of recoveries, it soon became apparent that the process was unnecessarily complex and time consuming. Thus at a full meeting of Euring, held in Sopot, Poland in 1977 the decision was taken to compile a New Euring Code, which would be not only better adapted to computer requirements, but also capable of dealing with many additional biological and biometrical parameters.

Thanks to the initiative of Dr. Carl Edelstam, there had already been a meeting of computer experts in Stockholm, and valuable preliminary studies had been made. Thus at Sopot a working party consisting of Dr. P. Busse, C. J. Mead and B. J. Speek was entrusted with the task of finalising the new version of the code. Unfortunately Dr. Busse was able to collaborate only by correspondence and so the team was strengthened by the addition of Dr. B. Jacquat.

In the spring of 1978 their proposals were circulated to all Euring members for comment, and at a meeting of the Euring Board, held at Copenhagen in November of that year the final differences were reconciled and the definitive text, as published here, agreed. We are greatly indebted to the working party in particular, and to all others who, by their criticisms and suggestions, have helped to make the New Euring code the versatile and flexible working tool it undoubtedly is.

Robert Spencer  
(General Secretary)

August 1979

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## INTRODUCTION

Punch cards provide a means of analysing recoveries at high speed. Before a punch card can be prepared, the ringing and recovery details must be converted into a numeric code, as set out in this list. It is designed for punch cards of the Hollerith type (Fig. 1). These cards contain 80 vertical columns of figures numbered from 1-80. Each column contains ten positions, numbered in descending order from 0 to 9. To indicate a code number a position is punched. Thus code number 5 is indicated by punching position 5, while code number 370 requires three adjacent columns, position 3 being punched in the first, 7 in the second and 0 in the third.

Besides these ten possible punches (0-9) two additional positions are available in each column, the so-called overpunches. These overpunches and position 0 can be used in combination with one of the other nine positions. They provide a means of indicating letters and signs. In this code list the overpunches are also used as independent punches 11 and 12. Note that in some systems these holes mean - and + but in others they are - and &. In the code list 0 always indicates number zero and Ø is used where the letter should be punched. Apart from the numbers 0-9, the letters A-Z, the overpunches 11 and 12 only the . (full stop or decimal point) is used (and that only within the ring number field).

Since each letter consists of an overpunch (11 or 12) or a 0 (zero) and an underpunch (numbers from 1-9) each alphabetic code also has a **numeric equivalent**. Care has been taken throughout the code to try to select such letters that the **numeric equivalents** may be used to allow schemes using sorting machines to distinguish codes with only one pass on their machines without reference to 0, 11 or 12. Normally, of course, two passes through the sorting machine would be needed for the sorting of letter codes.

The 80 columns are arranged in fields, each field dealing with one section of the information, e.g. eight columns are allocated to ring number. A survey of these fields is given overleaf. Fields may be "numeric" (numbers used only), "alphabetic" (letters used only) or "mixed" (both numbers and letters used).

Accurate and speedy coding of the data is essential and to facilitate this a special recovery form has been designed, divided into two halves (fig. 2). The left hand portion accommodates the information in plain language, and is matched on the right hand half, line for line by numbered squares, these being grouped according to the information they contain. Each of these squares also corresponds, number by number, with a column on the punch card. The coding of the recovery is done simply by filling in each square with a figure (0-9) or a letter (A-Z) or one of the recognised signs (., 11, 12) determined by reference to this code list. When coding of the recovery is complete, the punch card is then prepared at the punch card centre by means of a machine.

It is, of course, recognised that several of the Ringing Centres co-operating with EURING use sophisticated machinery in processing their recoveries and the recovery form (fig. 2) is not necessarily the one which will be used by all centres. The essential aspect is that such Centres should be able to submit to the EURING Data Bank coded recoveries following exactly the codes contained in this code list. Some schemes may, for their own purposes, have to use cards where the sequence of columns does not follow the standard system contained in this code. Such schemes should either re-order their data before submitting it to the Data Bank or make arrangements with the Data Bank Manager to have this done for them. Some of the more detailed information in the code is optional and such fields are indicated by \* on the summary of data fields on the next page. A code exists for such fields allowing 'no information available' to be coded and this should always be used rather than leaving the column blank.

This code book was first issued in September 1979.



## USING THE CODE

Throughout the extensive discussions on this first revision of the original (1966) EURING CODE every effort has been made to produce a **practical** code which is easy to use for the coder and contains, in coded form, all the information that an analyst using the recoveries will need for his studies. The result is that there are some specialist parts of the code which will seldom be used but, in all cases, there are easy means of coding 'no information available' (see field listing on page 5).

The field by field description of the coding, which follows, should be absolutely clear as it is essential that the coding is done in the same way by all members of EURING. In almost all cases the most frequently used codes are the ones which appear first and are the easiest to remember. Where several pieces of information are to be coded on one column of the card the different pieces of information are tabulated either:

- i) with the number or letter to be coded by each.  
e.g. on page 17 for column 18 a bird with metal ring above tarsus will be coded 2.
- or ii) with a series of - - and + + beside them. In these cases - indicates 'not true for this record' and + 'true for this record' the number or letter to be coded appears at the base of the column which contains the correct answers for the record being coded.  
e.g. on page 66 for column 67 a bird moved by water, whose finding circumstances have been presumed and which was not later released will be coded 7.

For example for column 22 the code for a bird whose flight feathers were moulting, for which a moult card was not filled in and which did have a biometrical record taken would be 6.

In any case of difficulty with understanding the code or with deciding how to code any particular information please contact the Board of EURING who will be able to advise you.

As an alternative to punch cards, magnetic tapes are often used for the storage and exchange of coded information. Unfortunately there are several different standards of magnetic tape and any scheme wishing to send its data on magnetic tape (or any other system apart from punch cards) to the Euring Data Bank should consult the Data Bank Manager to ensure that their system is compatible with the Data Bank's.

### **N.B. CODE NUMBERS CANNOT BE ALTERED AND ADDITIONS MUST ONLY BE MADE IN CONSULTATION WITH EURING.**

Any additions will be notified to all Euring Members.

### WARNING

The convention used in this code list, that  $\emptyset$  represents the letter O and that O is the number zero, is the exact opposite of that used by most card punching and computer agencies. It has been adopted because so many zeros have to be coded and so few letter Os. If you are coding up records for punching by a card punching bureau you must ensure that they have realised that this unusual convention is being used.

## SUMMARY OF DATA FIELDS

\* Marks columns where all or part of data is optional.

1-3	<i>Scheme:</i>		Alpha
4-11	<i>Ring Number:</i>		Mixed
12-15	<i>Species:</i>		Numeric
16	<i>*Subspecies:</i>		Mixed (O if not identified)
17	<i>Verification:</i>		Mixed
18	<i>*Factors affecting Recovery Chances:</i>		Mixed
	*O where no information on position of ring or presence of colour marks. Letter codes must be used where information is available on other aspects.		
19	<i>Sex (and Verification):</i>		Numeric and <u>11</u>
20	<i>Age:</i>		Mixed
21	<i>*Status at Ringing &amp; Brood Size:</i>		Mixed (O if unrecorded)
22	<i>*Moult/Biometrics at Ringing, Pullus Age:</i>		Mixed (O if unrecorded)
23	<i>*Plumage/Accuracy of Pullus Age:</i>		Mixed (O if unrecorded)
24-29	<i>Ringing</i>	44-49 <i>Recovery Date:</i>	Numeric
30	<i>Ringing</i>	50 <i>Recovery Inaccuracy of Date:</i>	Numeric and <u>11</u>
31-34	<i>Ringing</i>	51-54 <i>Recovery *Place Code:</i>	Mixed
	*First two columns obligatory. Next two optional for schemes using computer co-ordinate check otherwise old Euring or new changed Alpha code where boundaries have changed and codes agreed.		
35-42	<i>Ringing</i>	55-62 <i>Recovery Co-ordinates:</i>	Numeric and <u>11</u> <u>12</u>
43	<i>Ringing</i>	63 <i>Recovery Quadrant:</i>	Alphabetic
64	<i>Finding Condition:</i>		Numeric
65-66	<i>Finding Circumstances:</i>		Numeric
67	<i>Finding Circumstances Presumed/Moved Before Recovery/Held or Transported before Release:</i>		Mixed
68	<i>*Previous Reports/Changes to Ring or Colour Rings:</i>		Mixed
	(If no information on colour-mark numeric code only.)		
69	<i>*Status When Found/Relatives Recovered:</i>		Mixed
	(If no information on relation recovered numeric codes only.)		
70	<i>*Moult and Biometrics at Recovery:</i>		Numeric (O if no information)
71-79	<i>Derived Data Produced at Euring Data Bank.</i>		
80	<i>Card Identifier.</i>		



## RINGING SCHEME (columns 1-3)

### ALPHABETIC 3 COLUMNS

1. Ringing schemes are here defined as centres issuing rings which, without the specific address, could be confused with rings of other centres.
2. They are named after the locality printed on the ring. Different schemes with the same locality indication are distinguished by adding a specific part of the address.
3. The initial two letters are the country letters from the place code (columns 31 & 32 and 51 & 52); see that section for further explanation. The final letter to indicate the scheme. N.B. where the address on the ring has changed (e.g. Leiden to Arnhem) but the same scheme is involved the same code number is used.
4. To avoid using code letters on some extinct, very small or private schemes as well as zoos and avicultural societies, such rings should be coded with the first two letters of the main scheme from their country of origin with the third letter X.  
 e.g. Mortensen (Denmark) DKX  
 Crampton (England) GBX
5. All numeric codes are available for private use by Moskwa.
6. Schemes believed to be extinct are indicated by - in the lists.

### A THE EUROPEAN SCHEMES LISTED IN ALPHABETICAL ORDER

Country	Scheme	Code
Austria	+ Salzburg	AUS
Belgium	Bruxelles	BLB
	N.F.B.V.V.	BLN
Bulgaria	Sofia	BGS
Channel Islands	Jersey	CIJ
CSSR	Praha	CSP
	+ Prag Lotos	CSL
	Brno Akademia Ved.	CSB
Cyprus		CYC
Denmark	Copenhagen	DKC
	Kalø	DKK
	Viborg Skovgaard	DKV
	Odense	DKØ
Finland	Helsinki Museum	SFH
	- Helsinki Riista	SFR
France	Paris	FRP
	Strasbourg	FRS
	+ Versailles	FRV
Germany (DBR & DDR)	Helgoland	DFH
	Hiddensee	DDH
	Radolfzell/Rossitten	DFR
	+ Radolfzell Sudd. Vogelwarte	DFS
Hungary	Budapest Orn. & Mad.	HGB
	+ Budapest Museum	HGM
Iceland	Reykjavik	ISR
Italy	Bologna	IAB
	+ Bologna Ancona	IAA
	+ Bologna Genova	IAG
	+ Bologna Pisa	IAY
	+ Bologna Sardo (Sardinia)	IAØ
	+ Bologna Univ. (Garda Lake)	IAV
	+ Bologna Zool. (Mesola)	IAM
	Roma (Castelfusano)	IAR
	Sicilia	IAL

Malta	Valletta	MLV
Netherlands	Arnhem/Leiden	NLA
Norway	Stavanger	NØS
	Oslo Museum	NØØ
	+ Oslo Univ.	NØU
	Ås	NØA
Poland	Gdańsk/Varsovia	PLG
	+ Tschammendorf	PLT
Portugal	Lisboa	PØL
	Porto	PØP
Romania	Bucarest	RØB
	Oradea	RØØ
Spain	Madrid (SEO)	ESM
	San Sebastian	ESA
	Sevilla (Biol. Doñana)	ESE
	Madrid (Icona)	ESI
Sweden	Stockholm Museum	SVS
	+ Stockholm Jäger	SVJ
	+ Stockholm Ornis	SVØ
	+ Stockholm Skansen	SVN
	+ Göteborg	SVG
Switzerland	Sempach	HES
United Kingdom & Ireland	London (Brit. Museum/Tring)	GBT
	- Witherby	GBY
	+ Aberdeen (Landsborough Thomson)	GBB
	Aberdeen (Grouse study)	GBG
	Fordingbridge	GBD
	+ Orierton	GBR
	W.A.G.B.I.	GBW
USSR	Moskwa	SUM
	- Kaunas	SUK
	+ Leningrad	SUL
	+ Riga	SUR
	Matsalu/Tartu	SUE
Yugoslavia	Zagreb	YUZ
	+ Ljubljana	YUL

#### B NON-EUROPEAN SCHEMES

IQB	Bagdad Univ. (Iraq)
IPT	Teheran Zool. (Iran)
PNL	Lahore (Pakistan)
ILT	Tel-Aviv Univ. (Israel)
JHY	Yamashina Inst. O.Z. (Japan)
NAW	Washington (USA)
FPP	Pretoria (South Africa)
ALL	Luanda (Angola)
ZMZ	Zambia (Zambia)
GPN	Nairobi (Kenya)
NNJ	Jos (Nigeria)
ZIC	Congo (Zaire)
EGC	Cairo (Egypt)
TØT	Tunis (Tunisia)
INB	Bombay (India)
CGH	Hong Kong (Hong Kong)

## RING NUMBER (Columns 4-11)

### *MIXED 8 COLUMNS*

1. Ring number, consisting of up to eight figures/letters, to be coded directly into the eight columns. Where the ring number consists of less than eight figures/letters the additional columns to be coded as follows:

All figure	Closed to column 11	eg 12345	...12345
		012345	..012345
Letters/figures	Letters start column 4	eg A1234	A...1234
	Figures closed to column 11	AB6789	AB..6789
Figures/letters/figures	Start column 4 to last letter	eg 1A2345	1A..2345
	Other figures closed to column 11	23E456	23E..456
		1AB4567	1AB..4567
Figures/letters	Closed to column 11	eg 12345X	..12345X
		5678AB	..5678AB

2. The figure 0 is only to be punched where it actually appears on a ring number.
3. When part of the ring number is unknown (worn ring, incomplete number reported etc) the missing parts of the ring number are to be punched 11. Thus if the 5 has worn off a ring AB12345 (or the number is covered by an overlap) it should be coded as AB.123411
4. EURING schemes should never use more than eight figures/letters on their ring numbers.
5. Every recovery of any individual bird should ALWAYS have the original ring number placed on that bird as the number coded here. This applies through all subsequent replacements of the ring, whether by the scheme originally ringing the bird or by any other.

## SPECIES AND SUBSPECIES (Columns 12-16)

### *NUMERIC ON 5 COLUMNS: A VERY FEW LETTERS IN COLUMN 16.*

Columns 12-15 identify the species and column 16 the subspecies. The purely numeric code for species is derived from the sequential numbering of the 'List of recent Holarctic Bird Species' by K.H. Voous (*Ibis* 115: 612-638; *Ibis* 119: 223-250 and 376-406). Sub-species have been derived from the two volumes by Vaurie 'Birds of the Palearctic Fauna'. Definitive listings, in the form of direct print-out from a computer listing, are deposited with each member scheme of Euring. The list on the following pages will be sufficient for most purposes as it shows the code numbers for all species which appear in *Nomina Avium Europaeorum* by Harriet Jørgensen (1958) which formed the basis of the species list in the first edition of the Code Manual. The few subspecies which may be needed in the normal running of a scheme are also included (but see Note 2 below).

- NOTE 1** Where the species is unknown or unreliable or the bird is a hybrid the recovery should not be sent to the Euring Data Bank. Also if the bird concerned is not on the definitive species code list (e.g. an escape from a zoo or collection or a domesticated species) the recovery should not be sent to the Euring Data Bank. If any schemes wish to code such recoveries they may devise their own species code with initial figure 9 in column 12.
- NOTE 2** Column 16 (sub-specific determination) should be used only where the bird has been recognised by the ringer (or finder) as being of the particular subspecies given and not simply allotted to a particular subspecies because of the place or date of capture.
- WARNING** Experience with the previous code shows that ringers will make errors if they are asked to code numbers directly. For direct coding a locally devised system using scientific or vernacular names with as many as six letters will reduce errors.

## SPECIES LIST

02730	<i>Accipiter brevipes</i>	04410	<i>Anthropoides virgo</i>
02670	<i>Accipiter gentilis</i>	10060	<i>Anthus berthelotii</i>
02690	<i>Accipiter nisus</i>	10050	<i>Anthus campestris</i>
12470	<i>Acrocephalus agricola</i>	10120	<i>Anthus cervinus</i>
12530	<i>Acrocephalus arundinaceus</i>	10100	<i>Anthus gustavi</i>
12480	<i>Acrocephalus dumetorum</i>	10080	<i>Anthus hodgsoni</i>
12410	<i>Acrocephalus melanopogon</i>	10020	<i>Anthus novaeseelandiae</i>
12420	<i>Acrocephalus paludicola</i>	10110	<i>Anthus pratensis</i>
12500	<i>Acrocephalus palustris</i>	10140	<i>Anthus spinoletta</i>
12430	<i>Acrocephalus schoenobaenus</i>	10141	<i>Anthus spinoletta spinoletta</i>
12510	<i>Acrocephalus scirpaceus</i>	10142	<i>Anthus spinoletta petrosus</i>
05560	<i>Actitis hypoleucos</i>	10143	<i>Anthus spinoletta littoralis</i>
05570	<i>Actitis macularia</i>	10090	<i>Anthus trivialis</i>
14370	<i>Aegithalos caudatus</i>	08000	<i>Apus affinis</i>
14371	<i>Aegithalos caudatus caudatus</i>	07950	<i>Apus apus</i>
14375	<i>Aegithalos caudatus rosaceus</i>	07990	<i>Apus caffer</i>
07700	<i>Aegolius funereus</i>	07980	<i>Apus melba</i>
02550	<i>Aegyptius monachus</i>	07960	<i>Apus pallidus</i>
06490	<i>Aethia cristatella</i>	07940	<i>Apus unicolor</i>
01780	<i>Aix galericulata</i>	02960	<i>Aquila chrysaetos</i>
09580	<i>Alaemon alaudipes</i>	02930	<i>Aquila clanga</i>
09760	<i>Alauda arvensis</i>	02950	<i>Aquila heliaca</i>
06360	<i>Alca torda</i>	02920	<i>Aquila pomarina</i>
08310	<i>Alcedo atthis</i>	02940	<i>Aquila rapax</i>
03590	<i>Alectoris barbara</i>	01220	<i>Ardea cinerea</i>
03550	<i>Alectoris chukar</i>	01240	<i>Ardea purpurea</i>
03570	<i>Alectoris graeca</i>	01080	<i>Ardeola ralloides</i>
03580	<i>Alectoris rufa</i>	05610	<i>Arenaria interpres</i>
06470	<i>Alle alle</i>	07690	<i>Asio capensis</i>
09570	<i>Ammomanes deserti</i>	07680	<i>Asio flammeus</i>
09560	<i>Ammomanes phoenicurus</i>	07670	<i>Asio otus</i>
01890	<i>Anas acuta</i>	07570	<i>Athene noctua</i>
01800	<i>Anas americana</i>	02000	<i>Aythya collaris</i>
01940	<i>Anas clypeata</i>	01980	<i>Aythya ferina</i>
01840	<i>Anas crecca</i>	02030	<i>Aythya fuligula</i>
01920	<i>Anas discors</i>	02040	<i>Aythya marila</i>
01810	<i>Anas falcata</i>	02020	<i>Aythya nyroca</i>
01830	<i>Anas formosa</i>	05440	<i>Bartramia longicauda</i>
01790	<i>Anas penelope</i>	10480	<i>Bombycilla garrulus</i>
01860	<i>Anas platyrhynchos</i>	03260	<i>Bonasa bonasia</i>
01910	<i>Anas querquedula</i>	00960	<i>Botaurus lentiginosus</i>
01820	<i>Anas strepera</i>	00950	<i>Botaurus stellaris</i>
06300	<i>Anous stolidus</i>	01680	<i>Branta bernicla</i>
01590	<i>Anser albifrons</i>	01681	<i>Branta bernicla bernicla</i>
01610	<i>Anser anser</i>	01682	<i>Branta bernicla hrota</i>
01580	<i>Anser brachyrhynchus</i>	01660	<i>Branta canadensis</i>
01630	<i>Anser caerulescens</i>	01670	<i>Branta leucopsis</i>
01560	<i>Anser cygnoides</i>	01690	<i>Branta ruficollis</i>
01600	<i>Anser erythropus</i>	07440	<i>Bubo bubo</i>
01570	<i>Anser fabalis</i>	01110	<i>Bubulcus ibis</i>
01571	<i>Anser fabalis fabalis</i>	16760	<i>Bucanetes githagineus</i>
01572	<i>Anser fabalis johanseni</i>	02160	<i>Bucephala albeola</i>
01574	<i>Anser fabalis rossicus</i>	02180	<i>Bucephala clangula</i>
01620	<i>Anser indicus</i>	02170	<i>Bucephala islandica</i>

00340	Bulweria bulwerii	04800	Charadrius asiaticus
04590	Burhinus oedicnemus	04690	Charadrius dubius
02870	Buteo buteo	04700	Charadrius hiaticula
02871	Buteo buteo buteo	04790	Charadrius leschenaultii
02872	Buteo buteo vulpinus	04820	Charadrius morinellus
02900	Buteo lagopus	04740	Charadrius vociferus
02880	Buteo rufinus	09590	Chersophilus duponti
01070	Butorides striatus	04910	Chettusia gregaria
09680	Calandrella brachydactyla	04920	Chettusia leucura
09700	Calandrella rufescens	04440	Chlamydotis undulata
18470	Calcarius lapponicus	06260	Chlidonias hybridus
05080	Calidris acuminata	06280	Chlidonias leucopterus
04970	Calidris alba	06270	Chlidonias niger
05120	Calidris alpina	07860	Chordeiles minor
05121	Calidris alpina alpina	01340	Ciconia ciconia
05123	Calidris alpina schinzii	01310	Ciconia nigra
05060	Calidris bairdii	10500	Cinclus cinclus
04960	Calidris canutus	02560	Circaetus gallicus
05090	Calidris ferruginea	02600	Circus aeruginosus
05050	Calidris fuscicollis	02610	Circus cyaneus
05100	Calidris maritima	02620	Circus macrourus
05070	Calidris melanotos	02630	Circus pygargus
05010	Calidris minuta	12260	Cisticola juncidis
05040	Calidris minutilla	07160	Clamator glandarius
04980	Calidris pusilla	02120	Clangula hyemalis
05020	Calidris temminckii	17170	Coccothraustes coccothraustes
00360	Calonectris diomedea	07280	Coccyzus americanus
07810	Caprimulgus aegyptius	07270	Coccyzus erythrophthalmus
07780	Caprimulgus europaeus	06730	Columba junoniae
07790	Caprimulgus ruficollis	06650	Columba livia
16600	Carduelis cannabina	06680	Columba oenas
16530	Carduelis carduelis	06700	Columba palumbus
16490	Carduelis chloris	06710	Columba trocaz
16630	Carduelis flammea	08410	Coracias garrulus
16631	Carduelis flammea flammea	15720	Corvus corax
16634	Carduelis flammea cabaret	15670	Corvus corone
16632	Carduelis flammea rostrata	15671	Corvus corone corone
16620	Carduelis flavirostris	15673	Corvus corone cornix
16640	Carduelis hornemanni	15630	Corvus frugilegus
16641	Carduelis hornemanni hornemanni	15600	Corvus monedula
16642	Carduelis hornemanni exilipes	15601	Corvus monedula monedula
16500	Carduelis sinica	15603	Corvus monedula spermologus
16540	Carduelis spinus	03700	Coturnix coturnix
16790	Carpodacus erythrinus	04210	Crex crex
16890	Carpodacus roseus	07240	Cuculus canorus
11760	Cartharus guttatus	04640	Cursorius cursor
11780	Catharus minimus	15470	Cyanopica cyana
11770	Catharus ustulatus	06520	Cyclorhynchus psittacula
06380	Cepphus grylle	01530	Cygnus columbianus
10950	Cercotrichas galactotes	01540	Cygnus cygnus
14870	Certhia brachydactyla	01520	Cygnus olor
14860	Certhia familiaris	00230	Daption capense
08340	Ceryle alcyon	10010	Delichon urbica
08330	Ceryle rudis	08840	Dendrocopos leucotos
12200	Cettia cetti	08760	Dendrocopos major
04770	Charadrius alexandrinus	08830	Dendrocopos medius

08870	<i>Dendrocopos minor</i>	05200	<i>Gallinago media</i>
08780	<i>Dendrocopos syriacus</i>	04240	<i>Gallinula chloropus</i>
17450	<i>Dendroica virens</i>	15390	<i>Garrulus glandarius</i>
00150	<i>Diomedea chlororhynchos</i>	00050	<i>Gavia adamsii</i>
00200	<i>Diomedea exulans</i>	00030	<i>Gavia arctica</i>
00140	<i>Diomedea melanophris</i>	00040	<i>Gavia immer</i>
08630	<i>Dryocopus martius</i>	00020	<i>Gavia stellata</i>
10800	<i>Dumetella carolinensis</i>	06050	<i>Gelochelidon nilotica</i>
01210	<i>Egretta alba</i>	04670	<i>Glareola nordmanni</i>
01190	<i>Egretta garzetta</i>	04650	<i>Glareola pratincola</i>
02350	<i>Elanus caeruleus</i>	07510	<i>Glaucidium passerinum</i>
18760	<i>Emberiza aureola</i>	04330	<i>Grus grus</i>
18800	<i>Emberiza bruniceps</i>	04400	<i>Grus leucogeranus</i>
18680	<i>Emberiza caesia</i>	02460	<i>Gypaetus barbatus</i>
18710	<i>Emberiza chrysophrys</i>	02510	<i>Gyps fulvus</i>
18600	<i>Emberiza cia</i>	04500	<i>Haematopus ostralegus</i>
18610	<i>Emberiza cioides</i>	02430	<i>Haliaeetus albicilla</i>
18580	<i>Emberiza cirius</i>	02420	<i>Haliaeetus leucoryphus</i>
18570	<i>Emberiza citrinella</i>	05580	<i>Heteroscelus brevipes</i>
18660	<i>Emberiza hortulana</i>	02990	<i>Hieraaetus fasciatus</i>
18560	<i>Emberiza leucocephala</i>	02980	<i>Hieraaetus pennatus</i>
18810	<i>Emberiza melanocephala</i>	04550	<i>Himantopus himantopus</i>
18740	<i>Emberiza pusilla</i>	12560	<i>Hippolais caligata</i>
18730	<i>Emberiza rustica</i>	12590	<i>Hippolais icterina</i>
18750	<i>Emberiza rutila</i>	12580	<i>Hippolais olivetorum</i>
18770	<i>Emberiza schoeniclus</i>	12550	<i>Hippolais pallida</i>
18530	<i>Emberiza spodocephala</i>	12600	<i>Hippolais polyglotta</i>
09780	<i>Eremophila alpestris</i>	07920	<i>Hirundapus caudacutus</i>
10990	<i>Erithacus rubecula</i>	09950	<i>Hirundo daurica</i>
03140	<i>Falco biarmicus</i>	09920	<i>Hirundo rustica</i>
03160	<i>Falco cherrug</i>	02110	<i>Histrionicus histrionicus</i>
03090	<i>Falco columbarius</i>	04870	<i>Hoplopterus spinosus</i>
03110	<i>Falco eleonora</i>	00520	<i>Hydrobates pelagicus</i>
03030	<i>Falco naumanni</i>	00980	<i>Ixobrychus minutus</i>
03200	<i>Falco peregrinus</i>	18420	<i>Junco hyemalis</i>
03180	<i>Falco rusticolus</i>	08480	<i>Jynx torquilla</i>
03050	<i>Falco sparverius</i>	03290	<i>Lagopus lagopus</i>
03100	<i>Falco subbuteo</i>	03300	<i>Lagopus mutus</i>
03040	<i>Falco tinnunculus</i>	15150	<i>Lanius collurio</i>
03070	<i>Falco vespertinus</i>	15200	<i>Lanius excubitor</i>
13480	<i>Ficedula albicollis</i>	15140	<i>Lanius isabellinus</i>
13490	<i>Ficedula hypoleuca</i>	15190	<i>Lanius minor</i>
13460	<i>Ficedula narcissina</i>	15240	<i>Lanius nubicus</i>
13430	<i>Ficedula parva</i>	15230	<i>Lanius senator</i>
03640	<i>Francolinus francolinus</i>	05920	<i>Larus argentatus</i>
06540	<i>Fratercula arctica</i>	05921	<i>Larus argentatus argentatus</i>
00930	<i>Fregata magnificens</i>	05922	<i>Larus argentatus heuglini</i>
16360	<i>Fringilla coelebs</i>	05926	<i>Larus argentatus michahellis</i>
16380	<i>Fringilla montifringilla</i>	05927	<i>Larus argentatus cachinnans</i>
16370	<i>Fringilla teydea</i>	05880	<i>Larus audouinii</i>
04290	<i>Fulica atra</i>	05900	<i>Larus canus</i>
04310	<i>Fulica cristata</i>	05910	<i>Larus fuscus</i>
00220	<i>Fulmarus glacialis</i>	05911	<i>Larus fuscus fuscus</i>
09720	<i>Galerida cristata</i>	05912	<i>Larus fuscus graellsii</i>
09730	<i>Galerida theklae</i>	05850	<i>Larus genei</i>
05190	<i>Gallinago gallinago</i>	05980	<i>Larus glaucoides</i>

05990	<i>Larus hyperboreus</i>	10712	<i>Motacilla flava flavissima</i>
05730	<i>Larus ichthyaetus</i>	10713	<i>Motacilla flava thunbergi</i>
06000	<i>Larus marinus</i>	10714	<i>Motacilla flava feldegg</i>
05750	<i>Larus melanocephalus</i>	10715	<i>Motacilla flava cinereocapilla</i>
05780	<i>Larus minutus</i>	10716	<i>Motacilla flava iberiae</i>
05810	<i>Larus philadelphia</i>	13340	<i>Muscicapa latirostris</i>
05820	<i>Larus ridibundus</i>	13350	<i>Muscicapa striata</i>
05790	<i>Larus sabini</i>	02470	<i>Neophron percnopterus</i>
05140	<i>Limicola falcinellus</i>	01960	<i>Netta rufina</i>
05270	<i>Limnodromus scolopaceus</i>	15570	<i>Nucifraga caryocatactes</i>
05340	<i>Limosa lapponica</i>	15571	<i>Nucifraga caryocatactes caryocatactes</i>
05320	<i>Limosa limosa</i>	15572	<i>Nucifraga caryocatactes macrorhynchos</i>
12330	<i>Locustella certhiola</i>	05410	<i>Numenius arquata</i>
12390	<i>Locustella fasciolata</i>	05380	<i>Numenius phaeopus</i>
12370	<i>Locustella fluviatilis</i>	05400	<i>Numenius tenuirostris</i>
12350	<i>Locustella lanceolata</i>	07490	<i>Nyctea scandiaca</i>
12380	<i>Locustella luscinioides</i>	01040	<i>Nycticorax nycticorax</i>
12360	<i>Locustella naevia</i>	00500	<i>Oceanites oceanicus</i>
16660	<i>Loxia curvirostra</i>	00580	<i>Oceanodroma castro</i>
16650	<i>Loxia leucoptera</i>	00550	<i>Oceanodroma leucorhoa</i>
16680	<i>Loxia pytyopsittacus</i>	11490	<i>Oenanthe deserti</i>
09740	<i>Lullula arborea</i>	11480	<i>Oenanthe hispanica</i>
11050	<i>Luscinia calliope</i>	11440	<i>Oenanthe isabellina</i>
11030	<i>Luscinia luscinia</i>	11570	<i>Oenanthe leucopyga</i>
11040	<i>Luscinia megarhynchos</i>	11580	<i>Oenanthe leucura</i>
11060	<i>Luscinia svecica</i>	11460	<i>Oenanthe oenanthe</i>
11061	<i>Luscinia svecica svecica</i>	11461	<i>Oenanthe oenanthe oenanthe</i>
11062	<i>Luscinia svecica cyanecula</i>	11462	<i>Oenanthe oenanthe leucorhoa</i>
05180	<i>Lymnocyptes minimus</i>	11470	<i>Oenanthe pleschanka</i>
01950	<i>Marmaronetta angustirostris</i>	15080	<i>Oriolus oriolus</i>
02150	<i>Melanitta fusca</i>	04460	<i>Otis tarda</i>
02130	<i>Melanitta nigra</i>	07390	<i>Otus scops</i>
02140	<i>Melanitta perspicillata</i>	02250	<i>Oxyura jamaicensis</i>
09610	<i>Melanocorypha calandra</i>	02260	<i>Oxyura leucocephala</i>
09650	<i>Melanocorypha leucoptera</i>	06040	<i>Pagophila eburnea</i>
09660	<i>Melanocorypha yeltoniensis</i>	03010	<i>Pandion haliaetus</i>
02200	<i>Mergus albellus</i>	13640	<i>Panurus biarmicus</i>
02190	<i>Mergus cucullatus</i>	17320	<i>Parula americana</i>
02230	<i>Mergus merganser</i>	14610	<i>Parus ater</i>
02210	<i>Mergus serrator</i>	14620	<i>Parus caeruleus</i>
08400	<i>Merops apiaster</i>	14480	<i>Parus cinctus</i>
08390	<i>Merops superciliosus</i>	14540	<i>Parus cristatus</i>
18820	<i>Miliaria calandra</i>	14630	<i>Parus cyanus</i>
02380	<i>Milvus migrans</i>	14410	<i>Parus lugubris</i>
02390	<i>Milvus milvus</i>	14640	<i>Parus major</i>
17200	<i>Mniotilta varia</i>	14420	<i>Parus montanus</i>
11620	<i>Monticola saxatilis</i>	14400	<i>Parus palustris</i>
11660	<i>Monticola solitarius</i>	15910	<i>Passer domesticus</i>
16110	<i>Montifringilla nivalis</i>	15911	<i>Passer domesticus domesticus</i>
10200	<i>Motacilla alba</i>	15912	<i>Passer domesticus italiae</i>
10201	<i>Motacilla alba alba</i>	15920	<i>Passer hispaniolensis</i>
10202	<b><i>Motacilla alba yarrellii</i></b>	15980	<i>Passer montanus</i>
10190	<i>Motacilla cinerea</i>	00510	<i>Pelagodroma marina</i>
10180	<i>Motacilla citreola</i>	00890	<i>Pelecanus crispus</i>
10170	<i>Motacilla flava</i>	00880	<i>Pelecanus onocrotalus</i>
10711	<i>Motacilla flava flava</i>	03670	<i>Perdix perdix</i>



15430	<i>Perisoreus infaustus</i>	00250	<i>Pterodroma neglecta</i>
02310	<i>Pernis apivorus</i>	09910	<i>Ptyonoprogne rupestris</i>
16040	<i>Petronia petronia</i>	00480	<i>Puffinus assimilis</i>
00800	<i>Phalacrocorax aristotelis</i>	00400	<i>Puffinus gravis</i>
00720	<i>Phalacrocorax carbo</i>	00430	<i>Puffinus griseus</i>
00820	<i>Phalacrocorax pygmeus</i>	00490	<i>Puffinus lherminieri</i>
05650	<i>Phalaropus fulicarius</i>	00460	<i>Puffinus puffinus</i>
05640	<i>Phalaropus lobatus</i>	15580	<i>Pyrrhocorax graculus</i>
03940	<i>Phasianus colchicus</i>	15590	<i>Pyrrhocorax pyrrhocorax</i>
05170	<i>Philomachus pugnax</i>	17100	<i>Pyrrhula pyrrhula</i>
01470	<i>Phoenicopterus ruber</i>	17101	<i>Pyrrhula pyrrhula pyrrhula</i>
11270	<i>Phoenicurus moussieri</i>	04070	<i>Rallus aquaticus</i>
11210	<i>Phoenicurus ochruros</i>	04560	<i>Recurvirostra avosetta</i>
11220	<i>Phoenicurus phoenicurus</i>	13150	<i>Regulus ignicapillus</i>
13070	<i>Phylloscopus bonelli</i>	13140	<i>Regulus regulus</i>
12950	<i>Phylloscopus borealis</i>	14900	<i>Remiz pendulinus</i>
13110	<i>Phylloscopus collybita</i>	06010	<i>Rhodostethia rosea</i>
13030	<i>Phylloscopus fuscatus</i>	09810	<i>Riparia riparia</i>
13000	<i>Phylloscopus inornatus</i>	06020	<i>Rissa tridactyla</i>
13010	<i>Phylloscopus schwarzi</i>	11380	<i>Saxicola dacotiae</i>
13080	<i>Phylloscopus sibilatrix</i>	11370	<i>Saxicola rubetra</i>
12930	<i>Phylloscopus trochiloides</i>	11390	<i>Saxicola torquata</i>
13120	<i>Phylloscopus trochilus</i>	05290	<i>Scolopax rusticola</i>
15490	<i>Pica pica</i>	16420	<i>Serinus canaria</i>
08980	<i>Picoides tridactylus</i>	16440	<i>Serinus citrinella</i>
08550	<i>Picus canus</i>	16400	<i>Serinus serinus</i>
08560	<i>Picus viridis</i>	14720	<i>Sitta canadensis</i>
16990	<i>Pinicola enucleator</i>	14790	<i>Sitta europaea</i>
01440	<i>Platalea leucorodia</i>	14810	<i>Sitta neumayer</i>
18500	<i>Plectrophenax nivalis</i>	02080	<i>Somateria fischeri</i>
01360	<i>Plegadis falcinellus</i>	02060	<i>Somateria mollissima</i>
04850	<i>Pluvialis apricaria</i>	02070	<i>Somateria spectabilis</i>
04851	<i>Pluvialis apricaria apricaria</i>	05680	<i>Stercorarius longicaudus</i>
04852	<i>Pluvialis apricaria altifrons</i>	05670	<i>Stercorarius parasiticus</i>
04840	<i>Pluvialis dominica</i>	05660	<i>Stercorarius pomarinus</i>
04860	<i>Pluvialis squatarola</i>	05690	<i>Stercorarius skua</i>
04630	<i>Pluvianus aegyptius</i>	06240	<i>Sterna albifrons</i>
00110	<i>Podiceps auritus</i>	06220	<i>Sterna anaethetus</i>
00090	<i>Podiceps cristatus</i>	06090	<i>Sterna bengalensis</i>
00100	<i>Podiceps grisegena</i>	06060	<i>Sterna caspia</i>
00120	<i>Podiceps nigricollis</i>	06140	<i>Sterna dougallii</i>
02090	<i>Polysticta stelleri</i>	06230	<i>Sterna fuscata</i>
04270	<i>Porphyrio porphyrio</i>	06150	<i>Sterna hirundo</i>
04250	<i>Porphyryula alleni</i>	06070	<i>Sterna maxima</i>
04090	<i>Porzana carolina</i>	06160	<i>Sterna paradisaea</i>
04100	<i>Porzana parva</i>	06110	<i>Sterna sandvicensis</i>
04080	<i>Porzana porzana</i>	06840	<i>Streptopelia decaocto</i>
04110	<i>Porzana pusilla</i>	06890	<i>Streptopelia orientalis</i>
10940	<i>Prunella collaris</i>	06870	<i>Streptopelia turtur</i>
10840	<i>Prunella modularis</i>	07610	<i>Strix aluco</i>
10860	<i>Prunella montanella</i>	07660	<i>Strix nebulosa</i>
06620	<i>Pterocles alchata</i>	07650	<i>Strix uralensis</i>
06610	<i>Pterocles orientalis</i>	15840	<i>Sturnus roseus</i>
06590	<i>Pterocles senegallus</i>	15830	<i>Sturnus unicolor</i>
00290	<i>Pterodroma hasitata</i>	15820	<i>Sturnus vulgaris</i>
00330	<i>Pterodroma leucoptera</i>	00710	<i>Sula bassana</i>

07500	<i>Surnia ulula</i>	05460	<i>Tringa totanus</i>
12770	<i>Sylvia atricapilla</i>	05461	<i>Tringa totanus totanus</i>
12760	<i>Sylvia borin</i>	05462	<i>Tringa totanus robusta</i>
12650	<i>Sylvia cantillans</i>	10660	<i>Troglodytes troglodytes</i>
12750	<i>Sylvia communis</i>	05160	<i>Tryngites subruficollis</i>
12640	<i>Sylvia conspicillata</i>	12010	<i>Turdus iliacus</i>
12740	<i>Sylvia curruca</i>	11870	<i>Turdus merula</i>
12720	<i>Sylvia hortensis</i>	12030	<i>Turdus migratorius</i>
12670	<i>Sylvia melanocephala</i>	11960	<i>Turdus naumanni</i>
12700	<i>Sylvia nana</i>	11950	<i>Turdus obscurus</i>
12730	<i>Sylvia nisoria</i>	12000	<i>Turdus philomelos</i>
12690	<i>Sylvia rueppelli</i>	11980	<i>Turdus pilaris</i>
12610	<i>Sylvia sarda</i>	11970	<i>Turdus ruficollis</i>
12620	<i>Sylvia undata</i>	11860	<i>Turdus torquatus</i>
06630	<i>Syrrhaptes paradoxus</i>	11861	<i>Turdus torquatus torquatus</i>
00070	<i>Tachybaptus ruficollis</i>	11862	<i>Turdus torquatus alpestris</i>
01710	<i>Tadorna ferruginea</i>	11830	<i>Turdus unicolor</i>
01730	<i>Tadorna tadorna</i>	12020	<i>Turdus viscivorus</i>
11130	<i>Tarsiger cyanurus</i>	04000	<i>Turnix sylvatica</i>
03320	<i>Tetrao tetrix</i>	07350	<i>Tyto alba</i>
03350	<i>Tetrao urogallus</i>	08460	<i>Upupa epops</i>
04420	<i>Tetrax tetrax</i>	06340	<i>Uria aalge</i>
14820	<i>Tichodroma muraria</i>	06350	<i>Uria lomvia</i>
02540	<i>Torgos tracheliotus</i>	04930	<i>Vanellus vanellus</i>
05450	<i>Tringa erythropus</i>	16330	<i>Vireo olivaceus</i>
05510	<i>Tringa flavipes</i>	19110	<i>Xanthocephalus xanthocephalus</i>
05540	<i>Tringa glareola</i>	05550	<i>Xenus cinereus</i>
05500	<i>Tringa melanoleuca</i>	18400	<i>Zonotrichia albicollis</i>
05480	<i>Tringa nebularia</i>	18340	<i>Zonotrichia iliaca</i>
05530	<i>Tringa ochropus</i>	11700	<i>Zoothera dauma</i>
05520	<i>Tringa solitaria</i>	11710	<i>Zoothera sibirica</i>
05470	<i>Tringa stagnatilis</i>		

## VERIFICATION OF RING AND IDENTITY (Column 17)

*NUMERIC CODE – no clash on identity*

*ALPHABETIC CODE – ringer and finder disagree on identity*

	Ring NOT verified	Ring verified
No verification of identity	0	1
*Group verified	2	3
Species verified	4	5
Subspecies verified	6	7
*Ringer and finder disagree over group	B	A
Ringer and finder disagree over species	D	C
Ringer and finder disagree over subspecies	F	E

Ring verification may be by the ring being sent or a photograph, rubbing or carbon copy being available. Records should also be marked as verified if the ring has been seen by the ringing scheme but subsequently returned to the finder.

\*Verification information, at different levels, requires some evidence of the competence of the finder. Group verification (e.g. 'duck', 'gull', 'goose') can be accepted (generally) as can species verifications. Sub-species verifications are more difficult. In particular, coding of clashes over species and sub-species does require care as some element of doubt is being cast on the record by using this code. For example, without further knowledge of the finder's competence, it would be best to code a *Phylloscopus trochilus* reported as *Phylloscopus collybita* as 2 and not D.

N.B. If the scheme responsible for a record seriously doubts whether the species coded on a recovery is correct the record should not be submitted to EURING. If the finder's identification is believed to be accurate and is not the same as the ringer's then the finder's identification should be coded provided there is no reason to suppose unauthorised ring transfer or other interference.

## FACTORS AFFECTING RECOVERY CHANCES (Column 18)

*NUMERICAL CODE FOR:*

*Normal healthy bird released at place of capture within 24 hours of capture*

*ALPHABETIC CODES FOR:*

*Birds in poor condition, or transported, or held captive for more than 24 hours*

### *NORMAL HEALTHY BIRD RELEASED AT PLACE OF CAPTURE WITHIN 24 HOURS OF CAPTURE*

*Metal ring on tarsus or unknown — No colour rings known to be present	0
*Metal ring definitely on tarsus — No colour rings known to be present	1
Metal ring placed above tarsus — No colour rings known to be present	2
The numbered metal mark is NOT a normal leg ring (e.g. wing tag) — No colour rings known to be present	3
Conventional colour ring (or rings) used in addition to one of the above metal marks	4
Uniquely identified by conventional colour ring only (Combination of rings or numbered colour rings) — no metal mark	5
Other colour mark (e.g. wing-tag, bill marker, leg streamers etc) as well as any marks mentioned 0-4 above	6
Uniquely identified by other colour mark (as in 6, above) — no metal mark	7

N.B. These codes are used because the chances of recovery of a bird will be altered in the different circumstances that they describe.

\*0 may be used unless some individuals of the species may be coded 2 — in that case 1 should be used to distinguish individuals definitely ringed on the tarsus.

### *BIRD IN POOR CONDITION, OR TRANSPORTED, OR HELD IN CAPTIVITY WHEN RINGED*

*Poor condition when caught	P
*Ringing accident	R
Manipulated on ringing (injection, biopsy, radiotelemetry etc)	M
Transported TO co-ordinates coded	T
Transported FROM co-ordinates coded	F
Captive for more than 24 hours (code date of release)	C
Hand reared	H

\*Code R to be used where ringing has caused injury to bird and code P where the bird was already in poor condition when it was caught. Note that accidental loss of more than half the rectrices should cause these codes to be used but not if the loss was during the normal course of the birds moult.

If more than one of these codes applies to any bird the appropriate code furthest down the list should be used. Thus a colour-ringed bird which was transported to the co-ordinates coded should be coded T.

## SEX AND ITS VERIFICATION (Column 19)

NUMERIC 0-9 WITH 11

Sex	Ringer only	*Finder only	Ringer and finder agree	*Best estimate when ringer and finder disagree
Unknown	0	0	0	7
Male	1	3	5	8
Female	2	4	6	9

\*Particular care needed in assessing the finder's competence. A very few birds are actually intersexes. If a ringed bird is considered to be one it should be coded with 11.

### Comments and explanation

As with identification verification, a judgement of the competence of the finder must be taken when coding this. For example it would be wrong to accept the sex of a species such as *Erithacus rubecula* on the basis of a finder's letter which shows no specialist knowledge. Great care also needs to be taken when ducks are in eclipse plumage. When it is known that the ringer was sexing using cloacal examination, the ringer's diagnosis of sex should in such cases be coded.

Codes 7, 8 and 9 allow the ringing scheme, at the time of coding, to provide a 'best estimate' of the sex of the bird and indicate, at the same time, that there was disagreement between ringer and finder. An example of 7 would be when the ringer said male for a winter *Turdus merula* and two years later a finder said female. Code 8 would be used if the ringer had said juvenile female in June and the finder male two years later — shortly after fledging they are much more difficult to sex than when in fully adult plumage.

## AGE (COLUMN 20)

*NUMERIC AND ALPHABETIC AS FOLLOWS:*

- 0 Age unknown, i.e. not recorded.
- 1 Pullus: nestling or chick, unable to fly freely, still able to be caught by hand.
- 2 Full-grown: able to fly freely but age otherwise unknown\*.
- 3 First-year: full-grown bird born in the breeding season of this calendar year.
- 4 After first-year: full-grown bird born before this calendar year; year of birth otherwise unknown\*.
- 5 2nd year: a bird born last calendar year and now in its second calendar year.
- 6 After 2nd year: full-grown bird born before last calendar year; year of birth otherwise unknown\*.
- 7 3rd year: a bird born two calendar years before, and now in its third calendar year.
- 8 After 3rd year: a full-grown bird born more than three calendar years ago (including present year as one); year of birth otherwise unknown\*.
- 9 4th year: a bird born three calendar years before, and now in its fourth calendar year.
- A After 4th year: a bird older than category 9 — age otherwise unknown\*.
- B 5th year: one year older than category 9 — age known exactly to the year.
- C, D, E, F, G, H, J, K, L, etc. onwards *et seq.*

\*Plumage indication in column 23 may also be used to indicate whether or not birds in these categories are in immature or adult plumage.

**N.B.** Because the calendar year is used throughout this coding system all birds change code overnight on December 31st — January 1st. In fact every bird from 2 and onwards has two added to it because a bird identifiable at the end of December as 'First-year' (code 3) will, at the beginning of January be 'Second-year' (code 5) and so on.

The principle is simply understood by considering the codes for a fully grown bird caught during 1978. The top line gives the year indicated by the code, the second line the code for a bird definitely born in that calendar year and trapped and aged in 1978, the third (bottom line) the code for a bird of unknown age except that it was born not later than that year.

1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966
3	5	7	9	B	D	F	H	K	M	P	R	T
2	4	6	8	A	C	E	G	J	L	N	Q	S

Although only a minority of species can be aged into the alphabetic codes provided, it is felt helpful to have the EURING age code extended to be able to express age on recapture of birds which have been ringed in earlier years. Where ringer and finder do not agree the scheme should code the best estimate of age in this column and may, if they so wish, code disagreement in the plumage code (column 23).

## STATUS AND BROOD SIZE (COLUMN 21)

*ALPHABETIC CODES (K ONWARDS) for status of full-grown birds  
 NUMERIC AND ALPHABETIC (UP TO J) for brood size of nestlings  
 O if no information available in either case.*

### *STATUS OF FULL GROWN BIRD*

Unknown or unrecorded	O
Nesting or Breeding	N
Roosting assemblage	R
In Colony (not necessarily breeding but not pullus)	K
Moulting assemblage (whether bird moulting or not)	M
Apparently a local bird, but not breeding	L
Apparently a bird wintering in the locality	W
On passage — certainly not a local breeding nor wintering bird (includes birds attracted to lighthouses)	P
At sea — birds on boats, lightships or oil rigs	S

### *BROOD SIZE (ONLY FOR RECORDS OF NESTLINGS)*

Unknown or unrecorded O

N.B. O should be recorded unless THE EXACT NUMBER OF YOUNG ALIVE AT THE TIME OF RINGING IS KNOWN. O should also be recorded where broods have joined together in crèches.

Otherwise brood size from 1-17 should be coded as follows

Number in brood	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Code	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H

If there are 18 or more in the brood or the brood is mixed (more than one species present — most common with *Parus* sp) J should be coded.

**Warning** The biologically important information is the number of young alive at the time of ringing, and it must be emphasised to the ringers working in the field that it is this information that is required and NOT the number of young from the brood which happen to have been ringed.

## MOULT AND BIOMETRICS, PULLUS AGE (COLUMN 22)

NUMERIC 0-8 for moult and biometrics of full-grown birds  
ALPHABETIC (0 = no information) for age of pulli

### MOULT AND BIOMETRICS

Coded according to the decision table below. The information that a moult card has been completed and a biometrical record taken are 'flags' for the user to contact the relevant organisation for details if he so wishes. The fact that the bird was moulting its flight feathers may be used as data.

The method of use of such tables is explained on page 3.

NOT ACTIVELY MOULTING	—	+	—	—	—	—	—	—	—
FLIGHT FEATHERS MOULTING*	—	—	—	—	—	+	+	+	+
MOULT CARD COMPLETED	—	—	—	+	+	—	—	+	+
BIOMETRICAL RECORD TAKEN	—	—	+	—	+	—	—	—	+
CODE	0	1	2	3	4	5	6	7	8

\*Not to be used in the case of accidental moult of a few flight feathers (remiges and rectrices) or incomplete replacement of inner secondaries (or part or all of tail) during a partial moult.

N.B. Code 0 should be used where no information is available and code 1 only where it is certain that the bird was not actively undergoing a full moult.

### PULLUS AGE

In order to have a system which can be applied to a wide range of species with different fledging periods and very different patterns of development it is essential to work in periods of days from hatching rather than descriptions of state of development. The best system, applicable to well over 99% of nestlings ringed by EURING schemes, is to code in three day periods as follows:

Period	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	25-27
Code	A	B	C	D	E	F	G	H	J
Period	28-30	31-33	34-36	37-39	40-42	43-45	46-48	49-51	
Code	K	L	M	N	P	Q	R	S	
Period	52-54	55-57	58-60	61-63	64-66	67-69	70-72	Unrecorded	
Code	T	U	V	W	X	Y	Z	0 (Zero)	

These periods may be further qualified by the codes used in column 23 (accuracy of pullus age) and the 'flag' that further information is available on a nest record card also appears there.

### Comment and explanation

It is expected that specialist workers on particular species may, from time to time, wish to use the pullus age columns and they should be encouraged to try to relate developmental characteristics of their study species to the three-day periods above. For example with *Vanellus vanellus* the character would probably be bill length.



## PLUMAGE, ACCURACY OF PULLUS AGE (COLUMN 23)

NUMERIC 0-9 and alphabetic A-J for plumage

ALPHABETIC K-Z for accuracy of pullus age, as follows:

### PLUMAGE

Plumage coded according to the following system AS RECORDED BY THE RINGER. The numeric codes 0-9 to be used where there is no disagreement with information from the finder (in most cases the finder will not comment). The alphabetic codes A-J to be used in the few cases where the finder disagrees with the ringer, and there is evidence that the finder is competent to assess the bird's plumage.

N.B. The body plumage (i.e. without considering remiges, rectrices or larger wing coverts) should be assessed in all cases. Where the birds are actually undergoing moult the out-going plumage should be coded.

	No disagreement Code	Disagreement Code
Not classified	0	O
First plumage — juvenile plumage (acquired in the nest or from downy chick)	1	A
Second plumage — (= 1st winter, 1st summer or 1st immature: the first plumage after juvenile)	2	B
Third plumage (= 2nd winter, 2nd summer or 2nd immature: the second plumage after juvenile)	3	C
Fourth or later plumage: older than 1, 2 or 3 but not fully adult	4	D
Not adult — has not reached 8 or 9 below — but may be any of 1-4 above	5	E
Immature — has not reached 8 or 9 below but may be any of 2-4 (not 1)	6	F
Not juvenile — either immature or adult (not 1)	7	G
Full adult in annual plumage (with one annual moult) or in nuptial plumage	8	H
Full adult in post-nuptial plumage (includes eclipse plumage of male <i>Anas</i> sp)	9	I

### ACCURACY OF PULLUS AGE AND INDICATION WHETHER NEST RECORD CARD FILLED IN

	No Nest record available	Nest Record available
No record of pullus age	O	S
Exact pullus age — first day of period indicated	L	T
Exact pullus age — mid day of period indicated	M	U
Exact pullus age — last day of period indicated	N	V
Pullus age accurate within three day period indicated	P	X
Pullus age accurate to 4-9 days: within one period either side of the period coded	Q	Y
Pullus age accurate to 10-15 days: within two periods either side of the period coded	R	Z

As noted under column 22 pullus age will probably be recorded by most schemes only during special investigations and the degree of confidence placed in the estimates of age received from ringers may be indicated in this column. The indication that a nest record card has been completed acts as a flag (equivalent to flag for moult and biometrical information being available in columns 22 and 68).

DATE OF RINGING (COLUMNS 24-29)  
DATE OF FINDING (COLUMNS 44-49)

*ALL COLUMNS NUMERIC*

The date in days, months and years (omitting the first two year digits, 19) to be coded in successive pairs of boxes as follows:

1st January 1977	01 01 77
30th March 1977	30 03 77
15th October 1977	15 10 77
30th December 1977	30 12 77

Any inaccuracy of date is indicated by the contents of the following column (30 or 50). An estimated real date should always be entered in these six columns.

## INACCURACY OF DATE (COLUMN 30 & 50)

*ALPHABETIC* - date accurate to the date, time of date indicated.  
*NUMERIC* as below:

- 0 Accurate to the day
- 1 Accurate to within 1 day either side of date coded
- 2 Accurate to within 3 days either side of date coded
- 3 Accurate to within 1 week either side of date coded
- 4 Accurate to within 2 weeks either side of date coded
- 5 Accurate to within 6 weeks either side of date coded
- 6 Accurate to within 3 months either side of date coded
- 7 Accurate to within 6 months either side of date coded
- \*8 Accurate to within some years only
- 9 Col 30 Date of issue of ring or other earliest possible use of ring
- 9 Col 50 Date of recovery report (either on letter or postmark)
- 11 Col 50 Date of finding coded, but bird long dead, found mummified, ring in owl pellet, hunters collection etc. May be used even if ringing date within the previous 6 months.

\*Code inaccuracy 8 when time of year given but actual year in doubt: e.g. 'Found over Christmas either 1974 or 1975' should be coded 8 in this column and 25 12 74 as date, rather than 7 in this column and 25 08 75

Note that codes 2-8 should be used to indicate lack of accuracy in the reporting letter — e.g. 'I found this bird about three weeks ago' and NEVER because of the finders estimate — e.g. 'it looked as though it had been dead for about three weeks'.

Exact coding of inaccurate dates will depend on exactly what is said by the finder and whether the date to be coded is recent or not. For example 'End of September' might be 27.9 accuracy 2 if the letter was received early in October but 25.9 accuracy 3 if it was written in December.

Times, as truncated hours of the day on the twenty-four hour clock, to be entered as follows:

Time	Code	Time	Code	Time	Code
0001 - 0059	A	0800 - 0859	J	1600 - 1659	S
0100 - 0159	B	0900 - 0959	K	1700 - 1759	T
0200 - 0259	C	1000 - 1059	L	1800 - 1859	U
0300 - 0359	D	1100 - 1159	M	1900 - 1959	V
0400 - 0459	E	1200 - 1259	N	2000 - 2059	W
0500 - 0559	F	1300 - 1359	P	2100 - 2159	X
0600 - 0659	G	1400 - 1459	Q	2200 - 2259	Y
0700 - 0759	H	1500 - 1559	R	2300 - 2400	Z

It is recommended that the current local time be used rather than any attempt being made to correct the times to any standard (for example GMT, SET, CET etc). The actual standard used should be available if needed: it is probably best written on the typed recovery card for the bird. This is optional and most schemes will probably only use it on the small minority of exceptionally fast recoveries.

## PLACE CODE (COLUMNS 31-34 & 51-54)

*TWO COLUMNS ALPHABETIC, TWO MIXED*

### IMPORTANT EURING DATA BANK INSTRUCTIONS ON USE OF THESE COLUMNS

It is appreciated that some schemes using advanced data-processing methods are working on other place code systems. Data submitted to the EURING data bank is acceptable with imprecise place codes provided that:

- a) The country is indicated unambiguously (most will be two letter codes column 31/32, 51/52).
- b) That computer co-ordinate to place code checks have already been performed by the centre sending in the recoveries.

It is hoped that such advanced centres will write translation programmes from their own systems to provide as detailed a breakdown in these columns as possible.

Schemes unable to perform computer checking that the co-ordinates punched lie within the place code areas should continue to code places to the full EURING four column code. The EURING data bank will then provide the check facility when the recoveries are submitted.

### FIRST PAIR OF CHARACTERS

This is a two letter code which has been carefully chosen so that the numeric equivalents (see introduction page 1) also have a meaning. Within Europe the numeric equivalents generally refer to single countries sometimes with the normally associated smaller states (e.g. Monaco with France etc). Outside Europe the numerical equivalents generally refer to larger areas thus the numerical equivalent 19 covers the whole of Arabia but the countries have the exact letter codes as follows:

AR	Saudi Arabia	AI	Aden	AZ	Bahrain and Qatar
Jl	Kuwait	JR	United Arab Emirates	JZ	Yemen

This system has been adopted to help any schemes who have to manipulate the cards on counter/sorter machinery and the numbers should NEVER be punched but only the alphabetical codes given here.

### SECOND PAIR OF CHARACTERS

These are either numeric, in which case they follow the established final two digits of the original code in almost all cases, or alphabetic. The alphabetic codes have been introduced for two reasons:

- i) Within Europe, to enable new codes to follow revised administrative boundaries within countries where there has been local re-organisation or to enable a fuller breakdown of localities than was possible with the previous code.
- ii) In distant areas to enable countries to be separated.

In the future, when a Euring member has pressing local reasons for a change (e.g. boundary changes of provinces, departments or counties) it will be able to agree with the Euring Board a revision of its code from numeric to alphabetic and for this to be circulated to all members. For the revised countries this manual gives both an alphabetic code following the new boundaries and the previous Euring numeric code following the old boundaries. This is for the benefit of schemes who do not have access to detailed maps showing the revised boundaries. All references to the New Times Atlas refer to the Mid Century Edition of the Times Atlas of the World. All boundaries are taken from this atlas unless otherwise noted.

## HOW TO FIND THE CODE NUMBERS

Two indices are given here. The first lists the major European countries and the pages on which their code numbers may be found. The second gives the other regions of the world and the pages where their code numbers may be found. If computer checking of co-ordinates is used or if for any other reason, the final two columns of the place code are not being divided for a country where this is possible, 11 11 should be coded in the third and fourth column NOT 00 as this often means a specific part of the country concerned.

## NUMERIC EQUIVALENTS

A listing of the numeric equivalents is given on pages 56-57. This is as a service to those using coded information. THE NUMERIC EQUIVALENTS MUST NEVER BE CODED AS SUCH BUT SHOULD ALWAYS APPEAR IN THE ALPHABETIC FORM GIVEN IN THIS MANUAL.

## INDEX TO PLACE CODES

The pages where details of each country's (area's) codes may be found are given. For the few countries for which there is no further division the code is also given in brackets. An index of codes (in alphabetical order) to identify countries is given on pages 54-55.

### EUROPEAN COUNTRIES

Albania	(AB00)	Finland	38	Norway	37
Austria	41	France	30	Poland	40
Belgium	38	BRD (West Germany)	39	Portugal	32
Bulgaria	41	DDR (East Germany)	39	Romania	41
Channel Islands	28	Greece	36	Spain	33
CSSR	41	Hungary	41	Sweden	37
Cyprus	(CY00)	Iceland	(IS00)	Switzerland	30
Denmark	37	Italy	34	United Kingdom	28
Eire	28	Malta	(MLOO)	USSR (European part)	42, 43
Faeroes	(FA00)	Netherlands	38	Yugoslavia	34

### OUTSIDE EUROPE

Arctic	53	Australasia	48	Middle East	48
Africa	51	Central America	50	Near East	48
America	50	China	49	North America	50
Antarctica	(AN00)	Far East	48	Oceans	53
Arabia	48	Greenland	(GDOO)	South America	50
Asia	48	India	48	USSR (Asiatic part)	45

## UNITED KINGDOM AND EIRE

**ER1111 EIRE** Two letter code for counties in the Republic of Ireland; boundaries unchanged from Times Atlas.

Carlow	ERCW	Longford	ERLG
Cavan	ERCV	Louth	ERLU
Clare	ERCL	Mayo	ERMA
Cork	ERCK	Meath	ERME
Donegal	ERDO	Monaghan	ERMO
Dublin	ERDU	Offaly	EROF
Galway	ERGA	Roscommon	ERRO
Kerry	ERKE	Sligo	ERSL
Kildare	ERKD	Tipperary	ERTP
Kilkenny	ERKK	Waterford	ERWA
Leitrim	ERLM	Westmeath	ERWM
Leix	ERLX	Wexford	ERWX
Limerick	ERLK	Wicklow	ERWI

**GB1111 GREAT BRITAIN** Two letter code for counties in England, Scotland, Wales & Northern Ireland (latter all start with U = Ulster). Initial two letters GB.

N.B. These are new county and regional boundaries, *not* those shown in the Times Atlas (except for Northern Ireland). For England, Scotland and Wales the new county and region boundaries are shown on the Ordnance Survey 625 000 Administrative Boundary maps first published in 1975.

Anglesey	GBAN	Gloucester	GBGL	North Yorkshire	GBNY
Avon	GBAV	Grampian Region	GBGR	Nottinghamshire	GBNT
Bedford	GBBD	Gwent	GBGT	Orkney	GBOR
Berkshire	GBBK	Gwynedd	GBGD	Oxford	GBOX
Border Region	GBBR	Hampshire		Powys	GBPO
Buckingham	GBBC	(excl. I.o.W.)	GBHA	Salop	GBSA
Cambridge & Huntingdon	GBCA	Hereford & Worcs.	GBHF	Scilly Isles	GBSI
Central Region	GBCR	Hertfordshire	GBHT	Shetland	GBSH
Cheshire	GBCH	Highland Region	GBHR	South Yorks	GBSY
Cleveland	GBCV	Humberside	GBHU	Staffordshire	GBST
Clwyd	GBCW	Isle of Man	GBIM	Strathclyde Region	GBSC
Cornwall	GBCO	Isle of Wight	GBIW	Somerset	GBSO
Cumbria	GBCU	Kent	GBKE	Suffolk	GBSK
Derby	GBDB	Lancashire	GBLA	Surrey	GBSR
Devon	GBDV	Leicester & Rutland	GBLE	Sussex (West & East)	GBSX
Dorset	GBDO	Lincolnshire	GBLI	Tayside Region	GBTR
Dumfries & Galloway Region	GBDR	London (Greater)	GBLO	Tyne & Wear	GBTY
Durham	GBDU	Lothian Region	GBLR	Warwickshire	GBWK
Dyfed	GBDY	Manchester (Greater)	GBMA	Western Isles	GBWI
Essex	GBES	Merseyside	GBME	West Midlands	GBWM
Fair Isle	GBFI	Norfolk	GBNK	West Yorks	GBWY
Fife Region	GBFR	Northamptonshire	GBNH	Wiltshire	GBWT
Glamorgan (W., Mid- & S.)	GBGM	Northumberland	GBNL	<b>NORTHERN IRELAND</b> (Boundaries unchanged)	
<b>GENERAL COUNTRY CODES</b>		CI 00 <b>CHANNEL ISLANDS</b>		Antrim	GBUN
England	GBE 11	CIAL Alderney		Armagh	GBUR
N. Ireland	GBU 11	CIGU Guernsey		Down	GBUD
Scotland	GBS 11	CIHE Herm		Fermanagh	GBUF
Wales	GBW 11	CIJE Jersey		Londonderry	GBUL
		CISA Sark		Tyrone	GBUT

## GREAT BRITAIN OLD DIVISIONS

*THESE OLD CODES ARE INCLUDED AS THEY FOLLOW THE COUNTY BOUNDARIES GIVEN IN THE TIMES ATLAS*

GB 111 <i>England, south-west</i>	GB 511 <i>England, north</i>	GB 76 Peebles and Selkirk
GB 10 Cornwall	GB 50 Cheshire	GB 77 Renfrew
GB 11 Devon	GB 51 Cumberland	GB 78 Roxburgh
GB 12 Dorset	GB 52 Durham	GB 79 Wigtown
GB 13 Gloucester	GB 53 Isle of Man	
GB 14 Hampshire	GB 54 Lancashire, north (the separate part)	GB 811 <i>Scotland, middle</i>
GB 15 Monmouth	GB 55 Lancashire, south	GB 80 Aberdeen
GB 16 Scilly Isles	GB 56 Northumberland	GB 81 Angus
GB 17 Somerset	GB 57 Westmorland	GB 82 Banff
GB 18 Isle of Wight	GB 58 York, East and North Riding, York City	GB 83 Clackmannan and Kinross
GB 19 Wiltshire		GB 84 Dunbarton
	GB 59 York, West Riding	GB 85 Fife
GB 211 <i>England, south-east</i>		GB 86 Kincardine
GB 20 Bedford	GB 611 <i>Wales</i>	GB 87 Moray and Nairn
GB 21 Berkshire	GB 60 Anglesey	GB 88 Perth
GB 22 Buckingham	GB 61 Brecon and Radnor	GB 89 Stirling
GB 23 Essex	GB 62 Caernarvon	
GB 24 Hertford	GB 63 Cardigan	GB 911 <i>Scotland, north (incl. Orkney and Shetland)</i>
GB 25 Kent	GB 64 Carmarthen	GB 90 Argyll
GB 26 Middlesex and London	GB 65 Denbigh and Flint	GB 91 Bute
GB 27 Oxford	GB 66 Glamorgan	GB 92 Caithness
GB 28 Surrey	GB 67 Merioneth	GB 93 Fair Isle
GB 29 Sussex	GB 68 Montgomery	GB 94 Inverness (excl. Outer Hebrides)
	GB 69 Pembroke	GB 95 Orkney
GB 311 <i>England, east</i>	GB 711 <i>Scotland, south</i>	GB 96 Outer Hebrides
GB 30 Cambridge	GB 70 Ayr	GB 97 Ross and Cromarty (excl. Outer Hebrides)
GB 31 Huntingdon	GB 71 Berwick	
GB 32 Lincoln	GB 72 Dumfries	GB 98 Shetland
GB 33 Norfolk	GB 73 Kirkcudbright	GB 99 Sutherland
GB 34 Northampton	GB 74 Lanark	
GB 35 Rutland	GB 75 Lothians, West-, Mid-, and East-	
GB 36 Suffolk		
GB 411 <i>England, central</i>		
GB 40 Derby		
GB 41 Hereford		
GB 42 Leicester		
GB 43 Nottingham		
GB 44 Shropshire		
GB 45 Stafford		
GB 46 Warwick		
GB 47 Worcester		

## FRANCE

FR 11 11 **FRANCE** (departments; alphabetical list on p. 00)

FR 0 11 <i>France, north-west</i>	FR 3 11 <i>France, Atlantic coast</i>	FR 6 11 <i>France, east</i>
FR 01 Calvados	FR 30 Basses-Pyrénées	FR 60 Ain
FR 02 Eure	FR 31 Charente-Maritime	FR 61 Basses-Alpes
FR 03 Manche	FR 32 Côtes-du-Nord	FR 62 Doubs
FR 04 Mayenne	FR 33 Finistère	FR 63 Drôme
FR 05 Nord	FR 34 Gironde	FR 64 Hautes-Alpes
FR 06 Orne	FR 35 Ille-et-Vilaine	FR 65 Haute-Saône
FR 07 Pas-de-Calais	FR 36 Landes	FR 66 Haute-Savoie
FR 08 Seine-Maritime	FR 37 Loire-Atlantique	FR 67 Isère
FR 09 Somme	FR 38 Morbihan	FR 68 Jura
	FR 39 Vendée	FR 69 Savoie
FR 1 11 <i>France, north-east</i>	FR 4 11 <i>France, central west</i>	FR 7 11 <i>France, central south</i>
FR 10 Aisne	FR 40 Charente	FR 70 Ariège
FR 11 Ardennes	FR 41 Corrèze	FR 71 Aveyron
FR 12 Bas-Rhin	FR 42 Creuse	FR 72 Gers
FR 13 Haute-Marne	FR 43 Deux-Sevres	FR 73 Haute-Garonne
FR 14 Haut-Rhin & Belfort	FR 44 Dordogne	FR 74 Hautes-Pyrénées
FR 15 Marne	FR 45 Haute-Vienne	FR 75 Lot
FR 16 Meurthe-et-Moselle	FR 46 Indre	FR 76 Lot-et-Garonne
FR 17 Meuse	FR 47 Indre-et-Loire	FR 77 Lozère
FR 18 Moselle	FR 48 Maine-et-Loire	FR 78 Tarn
FR 19 Vosges	FR 49 Vienne	FR 79 Tarn-et-Garonne
FR 2 11 <i>France, central north</i>	FR 5 11 <i>France, central east</i>	FR 8 11 <i>France, Mediterranean</i>
FR 20 Aube	FR 50 Allier	FR 80 Alpes-Maritimes
FR 21 Côte d'Or	FR 51 Ardèche	FR 81 Aude
FR 22 Eure-et-Loire	FR 52 Cantal	FR 82 Bouches-du-Rhône
FR 23 Loir-et-Cher	FR 53 Cher	FR 90 Corse
FR 24 Loiret	FR 54 Haute-Loire	FR 83 Gard
FR 25 Oise	FR 55 Loire	FR 84 Hérault
FR 26 Sarthe	FR 56 Nièvre	FR 85 Pyrénées-Orientales
FR 27 Seine-et-Marne	FR 57 Puy-de-Dôme	FR 86 Var
FR 28 Seine-et-Oise & Seine	FR 58 Rhône	FR 87 Vaucluse
FR 29 Yonne	FR 59 Saône-et-Loire	

WR 80 **MONACO**

## SWITZERLAND

HE 11 11 **SWITZERLAND**

HEAG Aargau	HENW Nidwalden	} Unterwalden
HEAI Appenzel Innerroden	HEOW Obwalden	
HEAR Appenzel Ausserroden	HESG St. Gallen	
HEBE Bern/Berne	HESH Schaffhausen	
HEBL Basselland	HESØ Solothurn	
HEBS Baselstadt	HESZ Schwyz	
HEFR Fribourg/Freiburg	HETG Thurgau	
HEGE Genève	HETI Ticino	
HEGL Glarus	HEUR Uri	
HEGR Graubünden	HEVD Vaud	
HEJU Jura	HEVS Valais	
HELU Luzern	HEZG Zug	
HENE Neuchâtel	HEZH Zürich	

The superseded numeric codes are not given as all the canton boundaries appear in the New Times Atlas.



## ALPHABETICAL LIST OF DEPARTMENTS OF FRANCE

FR 60	Ain	FR 36	Landes
FR 10	Aisne	FR 23	Loire-et-Cher
FR 50	Allier	FR 55	Loire
FR 61	Alpes, Basses-	FR 37	Loire-Atlantique
FR 64	Alpes, Hautes-	FR 54	Loire, Haute-
FR 80	Alpes-Maritimes	FR 37	Loire-Inférieure
FR 51	Ardèche	FR 37	Loire-Maritime
FR 11	Ardennes	FR 24	Loiret
FR 70	Ariège	FR 75	Lot
FR 20	Aube	FR 76	Lot-et-Garonne
FR 81	Aude	FR 77	Lozère
FR 71	Aveyron	FR 48	Maine-et-Loire
FR 61	Basses-Alpes	FR 03	Manche
FR 30	Basses-Pyrénées	FR 15	Marne
FR 12	Bas-Rhin	FR 13	Marne, Haute-
FR 14	Belfort	FR 04	Mayenne
FR 82	Bouches-du-Rhône	FR 16	Meurthe-et-Moselle
FR 01	Calvados	FR 17	Meuse
FR 52	Cantal	FR 38	Morbihan
FR 40	Charente	FR 18	Moselle
FR 31	Charente-Maritime	FR 56	Nièvre
FR 31	Charente-Inférieure	FR 05	Nord
FR 53	Cher	FR 25	Oise
FR 41	Corrèze	FR 06	Orne
FR 90	Corse (Corsica)	FR 28	Paris
FR 21	Côte d'Or	FR 07	Pas-de-Calais
FR 32	Côtes-du-Nord	FR 57	Puy-de-Dôme
FR 42	Creuse	FR 30	Pyrénées, Basses-
FR 43	Deux-Sèvres	FR 74	Pyrénées, Hautes
FR 44	Dordogne	FR 85	Pyrénées, Orientales
FR 62	Doubs	FR 12	Rhin, Bas
FR 63	Drôme	FR 14	Rhin, Haut-
FR 02	Eure	FR 58	Rhône
FR 22	Eure-et-Loire	FR 65	Saône, Haute-
FR 33	Finistère	FR 59	Saône-et-Loire
FR 83	Gard	FR 26	Sarthe
FR 73	Garonne, Haute-	FR 69	Savoie
FR 72	Gers	FR 66	Savoie, Haute-
FR 34	Gironde	FR 28	Seine
FR 64	Hautes-Alpes	FR 27	Seine-et-Marne
FR 73	Haute-Garonne	FR 28	Seine-et-Oise
FR 54	Haute-Loire	FR 08	Seine-Inférieure
FR 13	Haute-Marne	FR 08	Seine-Maritime
FR 74	Hautes-Pyrénées	FR 43	Sèvres, Deux-
FR 14	Haut-Rhin	FR 09	Somme
FR 65	Haut-Saône	FR 78	Tarn
FR 66	Haute-Savoie	FR 79	Tarn-et-Garonne
FR 45	Haute-Vienne	FR 86	Var
FR 84	Hérault	FR 87	Vaucluse
FR 35	Ille-et-Vilaine	FR 39	Vendée
FR 46	Indre	FR 49	Vienne
FR 47	Indre-et-Loire	FR 45	Vienne, Haute-
FR 67	Isère	FR 19	Vosges
FR 68	Jura	FR 29	Yonne

## IBERIA

### ES 11 11 SPAIN (provinces; alphabetical list opposite)

#### ES 0 11 *Atlantic coast*

ES 00 Alava  
ES 01 Coruña  
ES 02 Guipúzcoa  
ES 03 Lugo  
ES 04 Orense  
ES 05 Oviedo  
ES 06 Pontevedra  
ES 07 Santander  
ES 08 Vizcaya

#### ES 1 11 *Central, north-west*

ES 10 Avila  
ES 11 Burgos  
ES 12 León  
ES 13 Logroño  
ES 14 Palencia  
ES 15 Salamanca  
ES 16 Segovia  
ES 17 Soria  
ES 18 Valladolid  
ES 19 Zamora

#### ES 2 11 *Central, north-east*

ES 20 Cuenca  
ES 21 Guadalajara  
ES 22 Huesca  
ES 23 Lérida  
ES 24 Navarra  
ES 25 Teruel  
ES 26 Zaragoza

#### ES 3 11 *North-east coast*

ES 30 Barcelona  
ES 31 Castellón  
ES 32 Gerona  
ES 33 Tarragona

#### ES 4 11 *South-east coast*

ES 40 Albacete  
ES 41 Alicante  
ES 42 Almería  
ES 43 Murcia  
ES 44 Valencia

#### ES 5 11 *Central, south*

ES 50 Badajóz  
ES 51 Cáceres  
ES 52 Ciudad Real  
ES 53 Madrid  
ES 54 Toledo

#### ES 6 11 *South*

ES 60 Cádiz  
ES 61 Córdoba  
ES 62 Granada  
ES 63 Huelva  
ES 64 Jaén  
ES 65 Málaga  
ES 66 Sevilla

#### ES 7 11 *Baleares*

ES 70 Ibiza (incl. Formentera)  
ES 71 Mallorca (incl. Cabrera)  
ES 72 Menorca

#### EK 23 ANDORRA

#### NB 60 GIBRALTAR

### PØ 12 12 PORTUGAL (provinces)

#### PØ 8 11 *North*

PØ 80 Beira Alta  
PØ 81 Beira Litoral  
PØ 82 Douro Litoral  
PØ 83 Minho  
PØ 84 Trás os Montes

#### PØ 9 11 *South*

PØ 90 Algarve  
PØ 91 Alto Alentejo  
PØ 92 Baixo Alentejo  
PØ 93 Beira Baixa  
PØ 94 Estremadura  
PØ 95 Ribatejo

### ALPHABETICAL LIST OF PROVINCES OF SPAIN

ES 00	Alava	ES 23	Lérida
ES 40	Albacete	ES 13	Logroño
ES 41	Alicante	ES 03	Lugo
ES 42	Almería	ES 53	Madrid
ES 05	Asturias	ES 65	Málaga
ES 10	Avila	ES 43	Murcia
ES 50	Badajóz	ES 24	Navarra
ES 7 11	Balearic Islands	ES 04	Orense
ES 30	Barcelona	ES 05	Oviedo
ES 08	Bilbao	ES 14	Palencia
ES 08	Biscaya	ES 24	Pamplona
ES 11	Burgos	ES 06	Pontevedra
ES 51	Cáceres	ES 15	Salamanca
ES 60	Cádiz	ES 07	Santander
ES 31	Castellón	ES 02	San Sebastian
ES 52	Ciudad Real	ES 26	Saragossa
ES 61	Córdoba	ES 16	Segovia
ES 01	Coruña	ES 66	Sevilla
ES 20	Cuenca	ES 17	Soria
ES 32	Gerona	ES 33	Tarragona
ES 62	Granada	ES 25	Teruel
ES 21	Guadalajara	ES 54	Toledo
ES 02	Guipúzcoa	ES 44	Valencia
ES 63	Huelva	ES 18	Valladolid
ES 22	Huesca	ES 08	Vizcaya
ES 64	Jaén	ES 19	Zamora
ES 12	León	ES 26	Zaragoza

## ITALY

IA 11 11 **ITALY** (mainland in provinces, or groups of provinces, islands not subdivided, alphabetical list opposite)

IA 0 11 *Alpine area*

- IA 00 Belluno
- IA 01 Bergamo
- IA 02 Bolzano
- IA 03 Brescia
- IA 04 Como & Sondrio & Varese
- IA 05 Cuneo
- IA 06 Novara & Vercelli
- IA 07 Torino
- IA 08 Trento
- IA 09 Valle d'Aosta

IA 1 11 *Po area*

- IA 10 Alessandria & Asti
- IA 11 Bologna
- IA 12 Cremona & Mantova
- IA 13 Milano
- IA 14 Modena
- IA 15 Parma & Reggio n.Emilia
- IA 16 Pavia
- IA 17 Piacenza
- IA 18 Verona
- IA 19 Vicenza

IA 2 11 *North Tyrrhenian*

- IA 20 Arezzo
- IA 21 Firenze
- IA 22 Genova & Massa Carrara & Spezia
- IA 23 Grosseto
- IA 24 Imperia & Savona
- IA 25 Livorno & Pisa
- IA 26 Lucca & Pistoia
- IA 27 Siena
- IA 28 Terni
- IA 29 Viterbo

IA 3 11 *North Adriatic*

- IA 30 Ancona & Pesaro e Urbino
- IA 31 Ascoli Piceno & Macerata
- IA 32 Ferrara & Rovigo
- IA 33 Forli
- IA 34 Gorizia & Udine
- IA 35 Padova
- IA 36 Perugia
- IA 37 Ravenna
- IA 38 Treviso
- IA 39 Venezia

IA 4 11 *South Tyrrhenian*

- IA 40 Avellino
- IA 41 Benevento
- IA 42 Caserta & Napoli
- IA 43 Catanzaro
- IA 44 Cosenza
- IA 45 Frosinone & Latina
- IA 46 Potenza
- IA 47 Reggio di Calabria
- IA 48 Roma
- IA 49 Salerno

IA 5 11 *South Adriatic*

- IA 50 Aquila d.Abruzzi
- IA 51 Bari
- IA 52 Brindisi & Lecce
- IA 53 Campobasso
- IA 54 Chieti
- IA 55 Foggia
- IA 56 Matera
- IA 57 Pescara & Teramo
- IA 58 Rieti
- IA 59 Taranto (Ionio)

IA 6 11 *Italian Islands*

- IA 61 Elba
- IA 62 Sardegna (Sardinia)
- IA 63 Sicilia (incl. islands to the west and north)
- IA 65 Pantellaria
- IA 66 Isole Pelagie

ZA 33 **SAN MARINO**

RA 48 **VATICAN CITY**

YU 7 11 **YUGOSLAVIA**

- YU 71 Bosna-Hercegovina
- YU 72 Crna-Gora (Montenegro)
- YU 73 Hrvatsku (Kroatia, Dalmatia)
- YU 74 Kosovo-Metohija
- YU 75 Makedonija
- YU 76 Slovenija (incl. Trieste)
- YU 77 Srbija (Serbia)
- YU 78 Vojvodina

## ALPHABETICAL LIST OF THE PROVINCES OF ITALY

IA 10	Alessandria	IA 14	Modena
IA 30	Ancona	IA 42	Napoli
IA 50	Aquila d.Abruzzi	IA 06	Novara
IA 20	Arezzo	IA 35	Padova
IA 31	Ascoli Piceno	IA 65	Pantellaria
IA 10	Asti	IA 15	Parma
IA 40	Avellino	IA 16	Pavia
IA 51	Bari	IA 36	Perugia
IA 00	Belluno	IA 57	Pescara
IA 41	Benevento	IA 30	Pesaro e Urbino
IA 01	Bergamo	IA 17	Piacenza
IA 11	Bologna	IA 25	Pisa
IA 02	Bolzano	IA 26	Pistoia
IA 03	Brescia	IA 46	Potenza
IA 52	Brindisi	IA 37	Ravenna
IA 53	Campobasso	IA 47	Reggio d.Calabria
IA 42	Caserta	IA 15	Reggio n.Emilia
IA 43	Cantanzaro	IA 58	Rieti
IA 54	Chieti	IA 48	Roma
IA 04	Como	IA 32	Rovigo
IA 44	Cosenza	IA 49	Salerno
IA 12	Cremona	IA 62	Sardegna
IA 05	Cuneo	IA 62	Sardinia
IA 61	Elba	IA 24	Savona
IA 32	Ferrara	IA 27	Siena
IA 21	Firenze	IA 63	Sicilia
IA 55	Foggia	IA 04	Sondrio
IA 33	Forli	IA 22	Spezia
IA 45	Frosinone	IA 59	Taranto
IA 22	Genova	IA 57	Teramo
IA 34	Gorizia	IA 28	Terni
IA 23	Grosseto	IA 07	Torino
IA 24	Imperia	IA 08	Trento
IA 59	Ionio	IA 38	Treviso
IA 66	Isole Pelagie	IA 76	Trieste
IA 45	Latina	IA 34	Udine
IA 52	Lecce	IA 09	Valle d'Aosta
IA 25	Livorno	IA 04	Varese
IA 26	Lucca	IA 39	Venezia
IA 31	Macerata	IA 06	Vercelli
IA 12	Mantova	IA 18	Verona
IA 22	Massa Carrara	IA 19	Vicenza
IA 56	Matera	IA 29	Viterbo
IA 13	Milano		

AB 00 ALBANIA

Summary of codes for the larger Mediterranean Islands

Aegean Islands	GR 80
Balearic Islands	ES 7 11 (but see individual island codes)
Corfu	GR 81
Corsica	FR 90
Crete	GR 82
Cyclades	GR 80
Cyprus	CY 00
Elba	IA 61
Formentera	ES 70
Gozo	ML 00
Ibiza	ES 70
Ionian Islands	GR 81
Kriti	GR 82
Mallorca	ES 71
Malta	ML 00
Menorca	ES 72
Pantellaria	IA 65
Rhodes	GR 80
Sardinia	IA 62
Sicily	IA 63

GR 8 11 GREECE (provinces)

GR 80	Aegean Islands <sup>1</sup>
GR 81	Ionian Islands
GR 82	Kriti (Crete)
GR 83	Makedhonia
GR 84	Peloponnisos <sup>2</sup>
GR 85	Piros
GR 86	Sterea Ellas <sup>3</sup>
GR 87	Thessalia
GR 88	Thraki

<sup>1</sup> except those belonging to other provinces

<sup>2</sup> including islands west of 24°0' E.L.

<sup>3</sup> excluding islands west of 24°0' E.L.

## FENNOSCANDIA

**DK 11 11 DENMARK** (division in Jylland and islands or groups of islands; small islands not listed here fall under those islands that belong wholly or partly to one and the same province)

<p>Aerø DK 03</p> <p>DK 00 Anholt</p> <p>Bornholm DK 10</p> <p>Falster DK 04</p> <p>Fanø DK 07</p> <p>DK 01 Fyn (Fünen)</p> <p>DK 02 Jylland (Jutland)</p> <p>Langeland DK 01</p> <p>DK 03 Laesø</p>	<p>Lolland DK 04</p> <p>DK 04 Maribo</p> <p>Møn DK 06</p> <p>Rømø DK 07</p> <p>Saltholm DK 06</p> <p>DK 05 Samsø</p> <p>DK 06 Sjaelland (Seeland)</p> <p>DK 07 Danish North Frisian Islands</p> <p>DK 10 Bornholm</p>
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**NØ 12 12 NORWAY** (provinces)

<p>NØ 20 Akershus (Oslo included)</p> <p>NØ 21 Aust-Agder</p> <p>Bergen (city) NØ 25</p> <p>NØ 22 Buskerud</p> <p>NØ 23 Finnmark</p> <p>NØ 24 Hedmark</p> <p>NØ 25 Hordaland (Bergen included)</p> <p>NØ 26 Møre og Romsdal</p> <p>NØ 27 Nordland</p> <p>NØ 28 Nord-Trøndelag</p>	<p>NØ 29 Opland</p> <p>Oslo (city) NØ 20</p> <p>NØ 30 Østfold</p> <p>NØ 31 Rogaland</p> <p>NØ 32 Sogn og Fjordane</p> <p>NØ 33 Sør-Trøndelag</p> <p>NØ 34 Telemark</p> <p>NØ 35 Troms</p> <p>NØ 36 Vest-Agder</p> <p>NØ 37 Vestfold</p>
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**SV 12 11 SWEDEN** (provinces; the names of the former divisions are still in use, and these are given in brackets: the code numbers behind refer to the present division in the area of which the old province was situated)

<p>SV 40 Alvsborg</p> <p>(Angermannland) SV 60, SV 61</p> <p>SV 41 Blekinge</p> <p>Bohus SV 43</p> <p>(Dalarna) SV 42, SV 48</p> <p>(Dalsland) SV 40</p> <p>(Gastrikland) SV 42</p> <p>SV 42 Gävleborg</p> <p>SV 43 Göteborg och Bohus</p> <p>Gotland SV 70</p> <p>SV 44 Halland</p> <p>(Hälsingland) SV 42, SV 45</p> <p>(Härjedalen) SV 45</p> <p>SV 45 Jämtland</p> <p>(Jämtland) SV 45, SV 61</p> <p>SV 46 Jönköping</p> <p>SV 47 Kalmar</p> <p>SV 48 Kopparberg</p> <p>SV 49 Kristianstad</p> <p>SV 50 Kronoberg</p> <p>(Lapland) SV 52, SV 60</p> <p>SV 51 Malmöhus</p> <p>(Medelpad) SV 61</p>	<p>(Närke) SV 53</p> <p>SV 52 Norrbotten</p> <p>Öland SV 71</p> <p>SV 53 Örebro</p> <p>SV 54 Östergötland</p> <p>(Skåne) SV 49, SV 51</p> <p>SV 55 Skaraborg</p> <p>(Småland) SV 46, SV 47, SV 50</p> <p>SV 56 Södermanland</p> <p>(Södermanland) SV 56, SV 57, SV 62</p> <p>SV 57 Stockholm (city included)</p> <p>(Uppland) SV 57, SV 58, SV 62</p> <p>SV 58 Uppsala</p> <p>SV 59 Värmland</p> <p>(Värmland) SV 59, SV 53</p> <p>SV 60 Västerbotten</p> <p>(Västergötland) SV 40, SV 43, SV 55</p> <p>SV 61 Västernorrland</p> <p>SV 62 Västmanland</p> <p>(Västmanland) SV 62, SV 53</p> <p>SV 70 Gotland</p> <p>SV 71 Öland</p>
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SF 11 12 **FINLAND** (provinces)

- Ahvenanmaa (Åland) SF 90
- SF 80 Häme (Tavastehus)
- SF 81 Kuopio
- SF 82 Kymi (Kymmeni)
- SF 83 Lappi (Lappland)
- SF 84 Mikkeli (St. Michel)
- SF 85 Oulu (Uleåborg)
- SF 86 Turku-Pori (Åbo-Björneborg)
- SF 87 Uusimaa (Nyland)
- SF 88 Vaasa (Vasa)
- SF 90 Ahvenanmaa (Åland)

CENTRAL EUROPE NORTHWEST

NL 11 11 **THE NETHERLANDS** (provinces, separate units; all Frisian Isles, IJsselmeerpolders)

*Frisian Isles* (characterised by a 0, 1, 2, or 3 in final column)

- |                    |                       |
|--------------------|-----------------------|
| NL 00 Texel        | NL 11 Ameland         |
| NL 01 Vlieland     | NL 12 Schiermonnikoog |
| NL 02 Griend       | NL 13 Rottumeroog     |
| NL 03 Terschelling |                       |

*Remaining part*

- |                     |   |
|---------------------|---|
| NL 04 Drente        | NL 14 Noord-Holland                               |
| NL 05 Friesland     | NL 15 Overijssel                                  |
| NL 06 Gelderland    | NL 16 Utrecht                                     |
| NL 07 Groningen     | NL 17 IJsselmeerpolders (Urk and Schokland incl.) |
| NL 08 Limburg       | NL 18 Zeeland                                     |
| NL 09 Noord-Brabant | NL 19 Zuid-Holland                                |

BL 2 11 **BELGIUM** (provinces)

- BL 20 Antwerpen (Anvers)
- BL 21 Brabant
- BL 22 Henegouwen (Hainaut)
- BL 23 Limburg (Limbourg)
- BL 24 Luik (Liège)
- BL 25 Luxembourg
- BL 26 Namen (Namur)
- BL 27 Oost-Vlaanderen (Flandre Orient.)
- BL 28 West-Vlaanderen (Flandre Occid.)

KN 29 **LUXEMBOURG**



DF 11 11 F.R. GERMANY\*

DF 5 12 *Bayern\**

DFAM Mittelfranken  
DFAN Niederbayern  
DFAB Oberbayern  
DFAF Oberfranken  
DFAP Oberpfalz  
DFAS Schwaben  
DFAU Unterfranken

DF 5 11 *Baden-Württemberg\**

DFBF Südbaden (Freiburg)  
DFBK Nordbaden (Karlsruhe)  
DFBS Nordwürttemberg (Stuttgart)  
DFBT Südwürttemberg (Tübingen)

DF 4 12 *Rheinland-Pfalz\**

DFCK Koblenz  
DFCR Rheinhessen-Pfalz  
DFCT Trier (*inc. Montabaur*)

DFDS Saarland

DF 4 12 *Hessen\**

DFED Darmstadt (*inc. Wiesbaden*)  
DFEK Kassel

DF 4 11 *Nordrhein-Westfalen\**

DFFA Arnsberg  
DFFD Düsseldorf  
DFFK Köln (*inc. Aachen*)  
DFFL Detmold (Lippe)  
DFFM Münster

DF 3 11 *Niedersachsen\**

DFGB Braunschweig (*inc. Hildsheim*)  
DFGH Hannover  
DFGL Lüneburg except islands (*inc. Stade*)  
DFGW Weser-Ems except islands (*Aurich, Oldenburg & Osnabrück*)  
DFGF Ostfriesische Inseln (Eastfrisian Islands) including Mellum  
DFGN Islands Neuwerk and Scharhörn  
DFXB Bremen  
DFHH Hamburg

DF 36 *Schleswig-Holstein\**

DFQS Schleswig-Holstein except islands in the North Sea  
DFQH Helgoland  
DFQN Nordfriesische Inseln (Northfrisian Islands)  
DFQT Island Trischen

DF63 BERLIN WEST

DD 11 11 GERMAN DEMOCRATIC REPUBLIC (DDR)

DD 6 11 *"Mecklenburg"\*\*\**

DD 60 Neubrandenburg  
DD 61 Rostock  
DD 62 Schwerin

DD 6 12 *"Brandenburg"\*\*\**

DD 63 Berlin (East)  
DD 64 Cottbus  
DD 65 Frankfurt (Oder)  
DD 66 Potsdam

DD 7 11 *"Sachsen Anhalt"\*\*\**

DD 70 Halle  
DD 71 Magdeburg

DD 7 12 *"Sachsen" & "Thuringen"\*\*\**

DD 72 Chemnitz/Karl-Marx-Stadt  
DD 73 Dresden  
DD 74 Erfurt  
DD 75 Gera  
DD 76 Leipzig  
DD 77 Suhl

\*The boundaries of the "Bezirke" are not given in the Times Atlas. To find these the following map is recommended; Verwaltungskarte von Deutschland 1:1.000.000. Edited by Reise- und Verkehrsverlag Stuttgart.

\*\*The "Bezirke" of the German Democratic Republic are grouped more or less according to the former "Länder". However, the boundaries of the latter (shown in the Times Atlas) do not tally with the boundaries of these groups of "Bezirke".

## POLAND

### PL 11 11 POLAND

Biała Podlaska	PLBP	Opole	PLØP
Białystok	PLBT	Ostrołęka	PLØA
Bielsko-Biała	PLBB	Piła	PLPA
Bydgoszcz	PLBY	Piotrków Trybunalski	PLPT
Chełm	PLCH	Płock	PLPK
Ciechanów	PLHA	Poznań	PLPN
Częstochowa	PLCZ	Przemyśl	PLPR
Elbląg	PLEL	Radom	PLRM
Gdańsk	PLGD	Rzeszów	PLRZ
Gorzów Wielkopolski	PLGW	Siedlce	PLDL
Jelenia Góra	PLJG	Sieradz	PLDZ
Kalisz	PLIS	Skierniewice	PLRN
Katowice	PLIC	Słupsk	PLUP
Kielce	PLLC	Suwałki	PLSU
Konin	PLØN	Szczecin	PLSZ
Koszalin	PLAL	Tarnobrzeg	PLTG
Kraków	PLKW	Tarnów	PLTV
Krosno	PLRØ	Toruń	PLTØ
Legnica	PLLA	Wałbrzych	PLWH
Leszno	PLLS	Warszawa	PLWZ
Łomża	PLØM	Włocławek	PLWK
Łódź	PLHH	Wrocław	PLWW
Lublin	PLLU	Zamość	PLZA
Nowy Sącz	PLNS	Zielona Góra	PLZG
Olsztyn	PLØL		

N.B. The boundaries of these divisions are not given in the New Times Atlas but conform to *Stan administracyjny I VI 1975 r.*

For the benefit of schemes without access to maps showing the revised regional boundaries in Poland the original Euring place codes for Polish regions are repeated below. The boundaries of these regions are shown in the New Times Atlas. Where possible coding to the two letter regions designated above is preferred to the numerical regions given below.

### PL 11 11 POLAND (provinces)

PL 8 11 <i>Poland Northwest</i>	PL 9 11 <i>Poland Southeast</i>
PL 80 Bydgoszcz (Bromberg)	PL 90 Białystok
PL 81 Gdansk (Danzig)	PL 91 Kielce
PL 82 Koszalin (Köslin)	PL 92 Krakow
PL 83 Olsztyn (Allenstein)	PL 93 Lodz
PL 84 Poznan (Posen)	PL 94 Lublin
PL 85 Szczecin (Stettin)	PL 95 Opole (Oppeln)
PL 86 Zielona Gora (Grünberg)	PL 96 Rzeszow
	PL 97 Stalinograd (Katowice)
	PL 98 Warszawian (Warschau)
	PL 99 Wrocław (Breslau)

## CENTRAL EUROPE SOUTHEAST

### AU 0 11 AUSTRIA (provinces)

- |                        |                  |
|------------------------|------------------|
| AU 00 Burgenland       | AU 05 Steiermark |
| AU 01 Kärnten          | AU 06 Tirol      |
| AU 02 Niederösterreich | AU 07 Vorarlberg |
| AU 03 Oberösterreich   | AU 08 Wien       |
| AU 04 Salzburg         |                  |

### AM 00 LIECHTENSTEIN

### CS 11 11 CZECHOSLOVAKIA (regions)

- |                               |  |
|-------------------------------|--|
| CS 1 <u>11</u> <i>Bohemia</i> | CS 2 <u>11</u> <i>Moravia &amp; Slovakia</i> |
| CS 10 České Budejovice        | CS 20 Banská Bystrica                        |
| CS 11 Hradec Králové          | CS 21 Bratislava (Pressburg)                 |
| CS 12 Jihlava                 | CS 22 Brno (Brunn)                           |
| CS 13 Karlovy Vary            | CS 23 Gottwaldov                             |
| CS 14 Liberec                 | CS 24 Košice                                 |
| CS 15 Pardubice               | CS 25 Nitra                                  |
| CS 16 Plzeň (Pilsen)          | CS 26 Olomouc                                |
| CS 17 Praha                   | CS 27 Ostrava                                |
| CS 18 Ústí nad Labem          | CS 28 Prešov                                 |
|                               | CS 29 Žilina                                 |

### HG 12 12 HUNGARY (counties)

- |                                    |                                    |
|------------------------------------|------------------------------------|
| HG 3 <u>11</u> <i>Hungary West</i> | HG 4 <u>11</u> <i>Hungary East</i> |
| HG 30 Baranya                      | HG 40 Bács-Kiskun                  |
| HG 31 Fejér                        | HG 41 Békés                        |
| HG 32 Győr-Sopron                  | HG 42 Borsod-Abaúj-Zemplén         |
| HG 33 Komárom                      | HG 43 Csongrád                     |
| HG 34 Somogy                       | HG 44 Hajdu-Bihar                  |
| HG 35 Tolna                        | HG 45 Heves                        |
| HG 36 Vas                          | HG 46 Jász-Nagykun-Szolnok         |
| HG 37 Veszprém                     | HG 47 Nógrád                       |
| HG 38 Zala                         | HG 48 Pest                         |
|                                    | HG 49 Szabolcs-Szatmár             |

### RØ 11 12 ROMANIA (regions)

- |   |   |
|---|---|
| RØ 5 <u>11</u> <i>Romania Northwest</i> | RØ 6 <u>11</u> <i>Romania Southwest</i> |
| RØ 50 Arad                              | RØ 60 Bârlad                            |
| RØ 51 Bacău                             | RØ 61 București (Bucharest)             |
| RØ 52 Baia Mare                         | RØ 62 Constanța                         |
| RØ 53 Cluj (Kolozsvár)                  | RØ 63 Craiova                           |
| RØ 54 Hunedoara                         | RØ 64 Galați (Galatz)                   |
| RØ 55 Magyar Autonomous Region          | RØ 65 Iași (Jassy)                      |
| RØ 56 Oradea (Nagyvárad)                | RØ 66 Pitești                           |
| RØ 57 Orașul Stalin (Brașov)            | RØ 67 Ploești                           |
| RØ 58 Suceava                           |   |
| RØ 59 Timișoara                         |   |

### BG 12 11 BULGARIA (provinces)

- |                   |   |
|-------------------|---|
| BG 70 Blagoevgrad | BG 76 Sofiya                              |
| BG 71 Khaskovo    | Stalin BG 81                              |
| BG 72 Kolarovgrad | BG 77 Stara Zagora                        |
| BG 73 Plevén      | BG 78 Turnovo                             |
| BG 74 Plovdiv     | BG 79 Vratsa                              |
| BG 75 Ruse        | BG 80 Burgas } <i>Black Sea provinces</i> |
|                   | BG 81 Stalin }                            |

## SU 11 11. U.S.S.R. EUROPEAN PART

Division:

1. European provinces of the Russian Soviet Federated Socialist Republic 'RSFSR'.
2. Ukraine and White Russia, subdivided in provinces.\*
3. Remaining republics, not subdivided.

For status of units and synonymic names see alphabetical list on pp. 46-47.

<p>SU 0 11 <i>Baltic Area</i></p> <p>SU 00 Estoniya</p> <p>SU 01 Kaliningrad</p> <p>SU 02 Latviya</p> <p>SU 03 Leningrad</p> <p>SU 04 Lithuania</p> <p>SU 05 Novgorod</p> <p>SU 06 Pskov (&amp; Velikiye Luki)</p> <p>SU 1 11 <i>North Russia</i></p> <p>SU 10 Arkhangelsk (excl. Nenets N.O. ** Frans Josef Land and Nov. Zemlya)</p> <p>SU 11 Franz Josef Land</p> <p>SU 12 Karelia</p> <p>SU 13 Komi ASSR</p> <p>SU 14 Murmansk</p> <p>SU 15 Nenets N.O.** (incl. Kolguyev and Vaygach Is.)</p> <p>SU 16 Novaya Zemlya</p> <p>SU 17 Vologda</p> <p>SU 2 11 <i>White Russia</i> (incl. Bryansk, Smolensk and Kaluga)</p> <p>SU 20 Brest</p> <p>SU 21 Bryansk</p> <p>SU 22 Gomel</p> <p>SU 23 Grodno</p> <p>SU 24 Kaluga</p> <p>SU 25 Minsk</p> <p>SU 26 Mogilev Molodechno SU 25</p> <p>SU 27 Smolensk</p> <p>SU 28 Vitebsk</p> <p>SU 3 11 <i>Central Russia</i></p> <p>SU 30 Gorkiy</p> <p>SU 31 Ivanovo</p> <p>SU 32 Kalinin</p> <p>SU 33 Kostroma</p> <p>SU 34 Mordovia</p> <p>SU 35 Moscow</p> <p>SU 36 Ryazan'</p> <p>SU 37 Tula</p> <p>SU 38 Vladimir</p> <p>SU 39 Yaroslavl'</p>	<p>SU 4 11 <i>West of Urals</i></p> <p>SU 40 Bashkir</p> <p>SU 41 Chuvash</p> <p>SU 42 Kirov</p> <p>SU 43 Kuybyshev</p> <p>SU 44 Mariy</p> <p>SU 45 Orenburg</p> <p>SU 46 Perm' (incl. Komy-Permyak)</p> <p>SU 47 Tatar</p> <p>SU 48 Udmart</p> <p>SU 49 Ul'yanovsk.</p> <p>SU 5 11 <i>Ukraine &amp; Moldaviya</i></p> <p>SU 50 Cherkassy</p> <p>SU 51 Chernigov</p> <p>SU 52 Chernovtsy</p> <p>SU 53 Dnepropetrovsk</p> <p>SU 54 Donetsk Drogobych SU 63 Kamenets Podolsk SU 57</p> <p>SU 55 Kharkov</p> <p>SU 56 Kherson</p> <p>SU 57 Khmel'nitsk</p> <p>SU 58 Kirovograd</p> <p>SU 59 Kiyev (Kiev)</p> <p>SU 60 Krym (Krim)</p> <p>SU 61 Lugansk</p> <p>SU 62 Lutsk</p> <p>SU 63 Lvov</p> <p>SU 64 MOLDAVIYA</p> <p>SU 65 Nikolayev</p> <p>SU 66 Odessa</p> <p>SU 67 Poltava</p> <p>SU 68 Rovno Stalino SU 54</p> <p>SU 69 Stanislav</p> <p>SU 70 Sumy</p> <p>SU 71 Ternopol'</p> <p>SU 72 Uzhgorod</p> <p>SU 73 Vinnitsa Volyn SU 62 Voroshilovgrad SU 61 Zakarpatsk SU 72</p> <p>SU 74 Zaporoz'ye</p> <p>SU 75 Zhitomir</p>
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\*Boundaries not shown in Times Atlas

\*\*Boundary given in Times Atlas as uncoloured finely dotted lines.

SU 8 11 *Don and Middle Volga*

- SU 80 Belgorod
- SU 81 Kursk
- SU 82 Lipetsk
- SU 83 Orel
- SU 84 Penza
- SU 85 Rostov
- SU 86 Saratov
- Stalingrad SU 88
- SU 87 Tambov
- SU 88 Volgograd
- SU 89 Voronezh

SU 9 11 *Lower Volga and Caucasus*

- SU 90 Armeniya (incl. Nakhichevan)
- SU 91 Astrakhan
- SU 92 Azerbaydzhan
- SU 93 Checheno-Ingushiya, Kabardino-Balkariya, Karachay-Cherkess, Severo-Osetiya
- SU 94 Dagestan
- SU 95 Georgia (Gruziya) (incl. Abkhaziya, Adzhariya)
- SU 96 Kalmyk
- SU 97 Krasnodar (incl. Adygey)
- SU 98 Stavropol

## SI 11 11. U.S.S.R. ASIATIC PART

Division:

1. Asiatic provinces and regions of the RSFSR.
2. Kazakhstan and Turkmen, subdivided into provinces.
3. Remaining provinces not subdivided.

SI 0 11 *Kazakhstan and Altay*

- SI 00 Aktyubinsk  
Akmolinsk SI 15
- SI 01 Alma-Ata
- SI 02 Altay (excl. Gorno-Altaysk)
- SI 03 Chimkent
- SI 04 Dzhambul
- SI 05 Gorno-Altaysk
- SI 06 Gur'yev (inc. Mangyshlak)
- SI 07 Karaganda (inc. Dzheskazgan)
- SI 08 Kokchetav
- SI 09 Kustanay (inc. Turgaisk)
- SI 10 Kzyl-Orda
- SI 11 Pavlodar
- SI 12 Petropavlovsk  
Severnaya Kazakhstan SI 12
- SI 13 Semipalatinsk
- SI 14 Taldy-Kurgan
- SI 15 Tselinograd = Abmolinsk
- SI 16 Ural'sk
- SI 17 Ust-Kamenogorsk  
Vostochno-Kazakhstan SI 17  
Yuzno-Kazakhstan SI 03  
Zapadno-Kazakhstan SI 16

SI 2 11 *Siberia West*

- SI 20 Chelyabinsk
- SI 21 Kemerovo
- SI 22 Khanty-Mansi\*
- SI 23 Kurgan
- SI 24 Novosibirsk
- SI 25 Omsk
- SI 26 Sverdlovsk
- SI 27 Tomsk
- SI 28 Tyumen' (excl. Khanty-Mansi  
and Yamal-Nenets)\*
- SI 29 Yamal-Nenets\*

SI 3 11 *Siberia Central*

- SI 30 Evenkiysk\*
- SI 31 Irkutsk
- SI 32 Khakass
- SI 33 Krasnoyarsk (excl. Evenkiysk,  
Novosib. Ostr. and Taymyr)\*
- SI 34 Novosibirskye Ostrova (New  
Siberian Islands)
- SI 35 Severnaya Zemlya
- SI 36 Taymyr\*
- SI 37 Tuva (Tannu-Tuva)
- SI 38 Yakut East of 135°E.L.
- SI 39 Yakut West of 135°E.L.

SI 4 11 *Siberia East*

- Amursk SI 40
- SI 40 Blagoveshchensk
- SI 41 Buryat (Buryat-Mongol)
- SI 42 Chita
- SI 43 Chukotsk\*\* & Wrangel Islands  
Commander Islands SI 44
- SI 44 Kamchatka (& Commander Islands)
- SI 45 Khabarovsk
- SI 46 Kuril Islands
- SI 47 Magadan (excl. Chukotsk)\*\*
- SI 48 Sakhalin (excl. Kuril Islands)
- SI 49 Vladivostok (Primorski)  
Wrangel Islands SI 43

SI 5 11 *Asia Central*

- SI 50 Ashkhabad (Turkmen) (inc. Krasnovodsk)
- SI 51 Chardzhou (Turkmen)
- SI 52 Kara-Kalpak
- SI 53 Kirgizia
- SI 54 Mary (Turkmen)
- SI 55 Tadzhikistan
- SI 56 Tashauz (Turkmen)  
Turkmenistan SI 50, SI 51, SI 54, SI 56
- SI 57 Uzbekistan (excl. Kara-Kalpak)

\*Boundaries given in Times Atlas as uncoloured, finely dotted lines.

\*\*The boundary between Chukotsk National District and the remainder of the Magadan Province is formed by the rivers Omolon and Mollonda mainly; the remaining boundary is given in the Times Atlas by an uncoloured, finely dotted line.

## ALPHABETICAL LIST OF SUBDIVISIONS OF THE U.S.S.R.

The status of each division is indicated by the following symbols:

SSR Soviet Socialist Republic  
 ASSR Autonomous SSR  
 O Oblast (province)  
 AO Autonomous Oblast  
 NO National Okrug (district)  
 K Kray (region)

The names are given as substantives; the adjectival form is given also when it is very different.

<p>SU 95 Abkhaziya ASSR            SU 97 Adygey AO            SU 95 Adzhariya ASSR            SI 15 Akmolinsk O            SI 00 Aktyubinsk O            SI 01 Alma-Ata O            SI 02 Altay K            (excl. Gorno Altaysk I)            SI 40 Amursk O            SU 10 Arkhangelsk O            (excl. Nenets and islands I)            SU 90 Armeniya SSR            SI 50 Ashkhabad O            SU 91 Astrakhan O            SU 92 Azerbaydzhan SSR            SU 40 Bashkir ASSR            SU 80 Belgorod O            SU 211 Belorussiya SSR            (subdivided)            SI 40 Blagoveshchensk O            SU 20 Brest O            SU 21 Bryansk O            SI 41 Buryat (-Mongol) ASSR            SI 51 Chardzhou O            SU 93 Checheno-Ingushiya ASSR            SI 20 Chelyabinsk O            SU 50 Cherkassy O            SU 51 Chernigov O            SU 52 Chernovtsy (Chernovits) O            SI 03 Chimkent O            SI 42 Chita (Chitinskaya) O            SU 45 Chkalov O            SI 43 Chukotsk            SU 41 Chuvash ASSR            SI 44 Commander Islands,            part of Kamchatka O            SU 60 Crimea O            SU 94 Dagestan ASSR            SU 53 Dnepropetrovsk O            SU 54 Donetsk O            SU 63 Drogobych O            SI 04 Dzhambul O            SI 07 Dzhzhkazan O            SU 00 Estoniya, Estland SSR            SI 30 Evenkiysk NO            SU 11 Franz Joseph Land,            part of Arkhangelsk O</p>	<p>SU 95 Georgia SSR            SU 22 Gomel O            SU 30 Gorkiy O            SI 05 Gorno-Altaysk AO            SU 23 Grodno O            SU 95 Gruzziya SSR            SI 06 Guryev O            SI 31 Irkutsk O            SU 31 Ivanovo O            SU 93 Kabardino-Balkariya ASSR            SU 32 Kalinin O            SU 01 Kaliningrad O            SU 96 Kalmyk (Kalmytskaya) ASSR            SU 24 Kaluga (Kaluzhkaya) O            SI 44 Kamchatka O            SU 57 Kamenets-Podolsk O            SU 93 Karachay-Cherkess AO            SI 07 Karaganda O            SI 52 Kara-Kalpak ASSR            SU 12 Karelia (Karelskaya) ASSR            SI 011 Kazakhstan SSR (subdivided)            SI 21 Kemerovo O            SI 45 Khabarovsk K            SI 32 Khakass AO            SI 22 Khanti-Mansi NO            SU 55 Kharkov O            SU 56 Kherson O            SU 57 Khmelniitsk O            SU 59 Kiev O            SI 53 Kirgizia SSR            SU 42 Kirov O            SU 58 Kirovograd O            SU 59 Kiyev O            SI 08 Kokchetav O            SI 44 Komandorskiye Ostrova,            part of Kamchatka O            SU 13 Komi ASSR            SU 46 Komy-Permyak NO            SU 33 Kostroma O            SU 97 Krasnodar K            SI 50 Krasnovodsk O            SI 33 Krasnoyarsk K            (excl. Evenkiysk, Taymyr and            islands)            SU 60 Krym, Krim O            SI 23 Kurgan O            SI 46 Kuril Islands,</p>
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	Kuril'skiye Ostrova, part of Sakhalin O	SI 35	Severnaya Zemlya, part of Krasnoyarsk K
SU 81	Kursk O	SU 93	Severo-Osetiya ASSR
SI 09	Kustanay O	SU 27	Smolensk O
SU 43	Kuybyshev O	SU 88	Stalingrad O
SI 10	Kzyl-Orda	SU 54	Stalino O
SU 02	Latviya, Letland SSR	SU 69	Stanislav O
SU 03	Leningrad O	SU 98	Stavropol O
SU 82	Lipetsk O	SU 70	Sumy (Sumskaya) O
SU 04	Litva, Lithuania, Litauen (Litovskaya) SSR	SI 26	Sverdlovsk O
SU 61	Lugansk O	SI 55	Tadzhikistan SSR
SU 62	Lutsk O	SI 14	Taldy-Kurgan O
SU 63	Lvov O	SI 37	Tannu-Tuva AO
SI 47	Magadan O (excl. Chukotsk!)	SU 87	Tambov O
SI 06	Mangyshlak O	SI 56	Tashauz O
SU 44	Mariy ASSR	SU 47	Tatar SSR
SI 54	Mary O	SI 36	Taymyr NO
SU 25	Minsk O	SU 71	Ternopol O
SU 26	Mogilev O	SI 27	Tomsk O
SU 64	Moldaviya SSR	SI 15	Tselinograd O
SU 25	Molodechno O	SU 37	Tula (Tul'skaya)
SU 46	Molotov O	SI 09	Turgaisk O Turkmenistan SSR
SU 34	Mordovia (Mordovskaya) O	SI 50, SI 51, SI 54, SI 56	
SU 35	Moskva, Moscow (Moskovskaya) O	SI 37	Tuva (Tuvinskaya) AO
SU 14	Murmansk O	SI 28	Tyumen O (excl. Khanti-Mansi and Yamal Nenets)
SU 90	Nakhichevan ASSR	SU 48	Udmurt ASSR
SU 15	Nenets NO (excl. Nov. Zemlya and F. Joseph Land)	SU 511	Ukraina SSR (subdivided)
SU 65	Nikolayev O	SU 49	Ulyanovsk O
SU 16	Novaya Zemlya, part of Arkhangelsk O	SI 16	Ural'sk O
SU 05	Novgorod O	SI 17	Ust-Kamenogorsk O
SI 24	Novosibirsk O	SI 57	Uzbekistan SSR (excl. Kara-Kalpak!)
SI 34	Novosibirskkiye Ostrova, part of Krasnoyarsk K	SU 72	Uzhgorod O
SU 66	Odessa O	SU 06	Velikiye-Luki, part of Pskov O
SI 25	Omsk O	SU 73	Vinnitsa O
SU 45	Orenburg O	SU 28	Vitebsk O
SU 83	Orel (Orlovskaya) O	SU 38	Vladimir O
SI 11	Pavlodar O	SI 49	Vladivostok K
SU 84	Penza (Penzenskaya) O	SU 88	Volgograd O
SU 46	Perm O	SU 17	Vologda O
SI 12	Petropavlovsk O	SU 62	Volyn O
SU 67	Poltava O	SU 89	Voronezh O
SI 49	Primorski K	SU 61	Veroshilovgrad O
SU 06	Pskov O	SI 17	Vostochno-Kazakhstan SSR
SU 68	Rovno (Rovenskaya) O	SU 211	White Russia (subdivided)
SU 85	Rostov O	SI 43	Wrangel Island, part of Magadan O
SU 36	Ryazan O		Yakut ASSR SI 38, SI 39
SI 48	Sakhalin O (excl. Kuril Islands!)	SI 29	Yamal-Nenets NO
SU 86	Saratov O	SU 39	Yaroslavl O
SI 13	Semipalatinsk O	SI 03	Yuzhno-Kazakhstan O
SI 12	Severnaya Kazakhstan O	SU 72	Zakarpatsk O
		SI 16	Zapadno-Kazakhstan O
		SU 74	Zaporoz'ye O
		SU 11	Zemlya Frantsa Iosifa, part of Arkhangelsk O
		SU 75	Zhitomir O



## ASIA OUTSIDE SOVIET UNION

NB. Numbers appearing in brackets are the number equivalents of the two letter codes and, where a family of two letter codes with the same number equivalents are given for several countries within an area, these are inset.

### NEAR EAST AND ARABIA

CY00	(38)	Cyprus	TU00	(34)	Turkey
IP00	(97)	Iran		(19)	(Arabia)
IQ00	(98)	Iraq	AI00		Aden
IL00	(93)	Israel	AR00		Saudi Arabia
JØ00	(16)	Jordan	AZ00		Bahrain & Qatar
LE00	(35)	Lebanon	Jl00		Kuwait
SY00	(28)	Syria	JR00		United Arab Emirates
			JZ00		Yemen

### CENTRAL ASIA (75)

	(81)	Himalayan States	GN00		Afghanistan
QA00		Bhutan	PN00		Pakistan
HJ00		Nepal		(95)	
QJ00		Sikkim	RN00		Bangladesh
HA00		Tibet (Xizang)	IN00		India (see states below)
			ZE00		Sri Lanka

#### Indian States:

INAP		Andhra Pradesh	INMR		Manipur
INAS		Assam	INMY		Mysore (inc. Goa)
INBI		Bihar	INØR		Orissa
INBØ		Bombay	INPØ		Pondicherry
INDE		Delhi	INPU		Punjab
INHP		Himachal Pradesh	INRA		Rajasthan
INJK		Jammu and Kashmir	INTR		Tripura
INKE		Kerala	INUP		Uttar Pradesh
INMP		Madhya Pradesh	INWB		West Bengal
INMS		Madras			

### EASTERN ASIA

MN00	(45)	Mongolia	FNLA		Laos
	(37)		FNTA		Thailand
CP00		China (see states below)	FNVA		Vietnam
CG00		Hong Kong	FVMA		Malaysia (Malay peninsula, part)
CX00		Taiwan	FVSA		Singapore
TP00		N. Korea	ØE00		Philippines
TX00		S. Korea	ØN00		Indonesia
	(65)		ØV00		Borneo Island
FE00		Burma	WE00		Papua, New Guinea
FNCA		Cambodia	JH00	(18)	Japan

### AUSTRALASIA ANTARCTICA AND PACIFIC ISLANDS

			AATA		Tasmania
<b>Antarctica</b>			AAVI		Victoria
AN00	(15)		AAWA		Western Australia
AA00	(11)	Australia	AJ00	(11)	New Zealand
AANS		New South Wales	AJNI		North Island
AANT		Northern Territories	AJSI		South Island
AAQU		Queensland	PI00	(71)	Pacific Islands (all including Galapagos in East).
AASA		South Australia			

**CHINESE STATES:** the names of the Chinese states, autonomous regions (marked A.R. on the list) and municipalities are given in two forms below. The old form is that which will be found on maps (e.g. New Times Atlas) but the new form is the one recently agreed as the standard transliteration from the Chinese names.

	Old Form	New Form
CPAN	Anhwei	Anhui
CPCH	Chekiang	Zhejiang
CPTS	Chinghai (or Tsinghai)	Qinghai
CPFU	Fukien	Fujian
CPHK	Heilungkiang	Heilongjiang
CPHO	Honan	Henan
CPHP	Hopei (or Hopeh)	Hebei
CPHU	Hunan	Hunan
CPHI	Hupei (or Hupeh)	Hubei
CPIM	Inner Mongolia (AR)	Nei Monggol (AR)
CPKA	Kansu	Gansu
CPKI	Kiangsi	Jiangxi
CPKU	Kiangsu	Jiangsu
CPKR	Kirin	Jilin
CPKS	Kwangsi (Chuang AR)	Guangxi (Zhuang AR)
CPKG	Kwangtung	Guangdong
CPKW	Kweichow	Guizhou
CPLI	Liaoning	Liaoning
CPNH	Ningsia (Hui AR)	Ningxia (Hui AR)
CPPK	Peking (Municipality)	Beijing
CPSH	Shanghai (Municipality)	Shanghai
CPSA	Shansi	Shanxi
CPSG	Shantung	Shandong
CPSI	Shensi	Shaanxi
CPSK	Sinkiang (Uighur AR)	Xinjiang (Uygur AR)
CPSZ	Szechuan	Sichuan
CPTT	Tientsin (Municipality)	Tianjin
CPYU	Yunnan	Yunnan

**AMERICAS**

(51) **North America**

NA00 United States of America (excl. Alaska, Hawaii, Puerto Rico)  
(states see below)  
EA00 Canada (states see below)  
VA00 Alaska

(31) **Central America**

TA00 Mexico  
CA00 Central American Countries (split by letter codes below)  
CABA Belize  
CACA Costa Rica  
CAEA El Salvador  
CAHA Honduras  
CAGA Guatamala  
CANA Nicaragua  
CAPA Panama  
LA00 Lesser Antilles  
CJCA Cuba  
CJJA Jamaica  
LJDA Dominican Republic  
LJHA Haiti  
LJPA Puerto Rico  
TJ00 Bahamas

(21) **South America**

BJ00 Argentina  
SABA Bolivia  
BA00 Brazil  
KA00 Chile  
SACA Colombia  
SAEA Ecuador  
SAGA Guyana  
SAPA Paraguay  
KJ00 Peru  
SAUA Uruguay  
SJ00 Venezuela

**Canadian States**

EAAL	Alberta	EANW	North West Territories
EABC	British Columbia	EANS	Nova Scotia
EALA	Labrador	EAON	Ontario
EAMA	Manitoba	EAPE	Prince Edward Island
EANB	New Brunswick	EAQU	Quebec
EANF	Newfoundland	EASA	Saskatchewan

**United States of America (North American States)**

NAAL	Alabama	NAMQ	Montana
NAAZ	Arizona	NANA	Nebraska
NAAK	Arkansas	NANV	Nevada
NACA	California	NANH	New Hampshire
NACL	Colorado	NANJ	New Jersey
NACN	Connecticut	NANY	New York
NADE	Delaware	NANC	North Carolina
NADC	District of Columbia	NAND	North Dakota
NAFL	Florida	NAQH	Ohio
NAGE	Georgia	NAQK	Oklahoma
NAID	Idaho	NAQR	Oregon
NAIL	Illinois	NAPE	Pennsylvania
NAIN	Indiana	NARI	Rhode Island
NAIQ	Iowa	NASC	South Carolina
NAKA	Kansas	NASD	South Dakota
NAKE	Kentucky	NATN	Tennessee
NALQ	Louisiana	NATX	Texas
NAMA	Maine	NAUT	Utah
NAMY	Maryland	NAVE	Vermont
MAMS	Massachusetts	NAVI	Virginia
NAMC	Michigan	NAWA	Washington
NAMN	Minnesota	NAWV	West Virginia
NAMP	Mississippi	NAWI	Wisconsin
NAMR	Missouri	NAWY	Wyoming

## AFRICAN COUNTRY CODES

Country names and boundaries are taken from Stanford's general map of Africa (1978).

For Algeria and Republic of South Africa see end of list for state codes.

AG11 11	Algeria (see below)	MY00	Malawi
AL00	Angola	EM00	Mali
XY00	Benin	NM00	Mauritania
WG00	Botswana	MJ00	Melilla
PX00	Burundi	MA00	Morocco
QQ00	Cameroun	MQ00	Mozambique
QH00	Central African Empire	FM00	Namibia (S.W. Africa)
DA00	Ceuta	NE00	Niger
FT00	Chad (Tchad)	NV00	Nigeria
YY00	Congo Brazzaville	FP11 11	Republic of South Africa (see below)
XQ00	Dahomey		Rhodesia (Zimbabwe)
EY00	Djibuti	WS00	Ruanda
EG00	Egypt	PP00	Senegal
YQ00	Equatorial Guinea	NU00	Sierra Leone
EQ00	Ethiopia	PH00	Sokotra
YH00	Fernando Po	YB00	Somalia
QY00	Gabon	YS00	Spanish W. Africa (Rio de Oro)
VM00	Gambia	ND00	Sudan
GH00	Ghana	SS00	Swaziland
GY00	Guinea	WP00	Tangier
GQ00	Guinea Bissau	DJ00	Tanzania
HH00	Guinea Islands	HT00	Togo
UJ00	Ifni	XH00	Tunisia
PY00	Ivory Coast	TQ00	Uganda
GP00	Kenya	GG00	Upper Volta (Haute Volta)
FG00	Lesotho	VU00	Zaire
PQ00	Liberia	ZI00	Zambia
LT00	Libya	ZM00	Zanzibar & Pemba
MG00	Madagascar (Malagassy)	QC00	

### Provinces in Algeria

Boundaries from New Times Atlas

AGAL	Alger
AGCØ	Constantine
AGØR	Oran
AGTS	Other provinces

### States of Republic of South Africa

Boundaries from New Times Atlas

FPCG	Cape Province
FPNA	Natal
FPØF	Orange Free State
FPTV	Transvaal

## ISLANDS AND OCEANS

FA00 (61) Faeroes  
IS00 (92) Iceland  
GD00 (75) Greenland

Place codes for other islands, for which codes have not so far been allocated, may be found below. If they are not specifically mentioned they should be included with the relevant ocean area but note AN (Antarctica) and PI (Pacific Islands).

Otherwise uncoded islands in the following oceans:

12A00 Arctic Ocean  
    12ABI Bear Island  
    12AJM Jan Mayen  
    12ASV Svalbard (Spitsbergen)  
12B00 North Sea (see pages 28 and 37-39)  
12C00 English Channel and Irish Sea (see page 28 and 30)  
12D00 Bay of Biscay  
12E00 Baltic Sea (see pages 37-40 and 42)  
12F00 Mediterranean Sea (see page 36)  
12G00 Black and Caspian Seas  
12H00 North Atlantic Ocean (other parts)  
    12HAZ Azores  
    12HBE Bermuda  
    12HCN Canary Islands  
    12HCV Cape Verde Islands  
    12HMA Madeira  
12I00 Other Oceans

## AT SEA

Birds found floating at sea or found on ships or other man-made structures rather than islands are coded as if found on uncoded islands but with an initial 11 rather than 12.

11A00 Arctic Ocean  
11B00 North Sea  
11C00 English Channel and Irish Sea  
11D00 Bay of Biscay  
11E00 Baltic Sea  
11F00 Mediterranean Sea  
11G00 Black and Caspian Seas  
11H00 North Atlantic Ocean (other parts)  
11I00 Other Oceans

## ALPHABETICAL INDEX TO THE TWO LETTER PLACE CODE (FIRST TWO LETTERS ONLY)

Note that where the country or region is not further subdivided the full letter reference (ending 00) is entered: otherwise, in brackets after the country name (or region), which are in bold type, is given, the page reference for further divisions.

AA	<b>Australia</b> (48)	FA00	Faeroes
AB00	Albania	FE00	Burma
AG	<b>Algeria</b> (51)	FG00	Lesotho
A100	Aden	FM00	Namibia (S.W. Africa)
AJ	<b>New Zealand</b> (48)	FN	<b>S.E. Asia</b> (48)
AL00	Angola	FP	<b>Republic of South Africa</b> (51)
AM00	Liechtenstein	FR	<b>France</b> (30)
AN00	Antarctica	FT00	Chad
AR00	Saudi Arabia	FV	<b>Malaysia/Singapore</b> (48)
AU	<b>Austria</b> (41)		
AZ00	Bahrain & Qatar	GB	<b>United Kingdom</b> (28)
		GD00	Greenland
BA00	Brazil	GG00	Uganda
BG	<b>Bulgaria</b> (41)	GH00	Ghana
BJ00	Argentina	GN00	Afghanistan
BL	<b>Belgium</b> (38)	GP00	Kenya
		GQ00	Guinea Bissau
CA	<b>Central America</b> (50)	GR	<b>Greece</b> (36)
CG00	Hong Kong	GY00	Guinea
CI	Channel Islands (28)		
CJ	Cuba/Jamaica (50)	HA00	Tibet
CP	China (49)	HE	<b>Switzerland</b> (30)
CS	<b>CSSR</b> (41)	HG	<b>Hungary</b> (41)
CX00	Taiwan	HH00	Guinea Islands
CY00	Cyprus	HJ00	Nepal
		HT00	Tanzania
DA00	Ceuta		
DF	<b>BRD: Fed. Rep. of Germany</b> (39)	IA	<b>Italy</b> (34)
DD	<b>DDR: German Dem. Rep.</b> (39)	IL00	Israel
DJ00	Tangier	IN	<b>India</b> (48)
DK	<b>Denmark</b> (37)	IP00	Iran
DF 63	Berlin (West)	IQ00	Iraq
		IS00	Iceland
EA	<b>Canada</b> (50)		
EG00	Egypt	JH00	Japan
EK00	Andorra	J100	Kuwait
EM00	Mali	J200	Jordan
EQ00	Ethiopia	JR00	United Arab Emirates
ER	<b>Eire</b> (28)	JZ00	Yemen
ES	<b>Spain</b> (33)		
EY00	Djibuti	KA00	Chile
		KJ00	Peru
		KN00	Luxembourg

LA00	Lesser Antilles	SA	South America (50)
LE00	Lebanon	SF	Finland (38)
LJ	<b>Caribbean (50)</b>	SI	USSR: Asiatic part (45)
LT00	Libya	SJ00	Venezuela
		SS00	Sudan
MA00	Morocco	SU	USSR: European part (42, 43)
MG00	Madagascar (Malagassy Republic)	SV	Sweden (37)
		SY00	Syria
MJ00	Melilla		
ML00	Malta	TA00	Mexico
MN00	Mongolia	TJ00	Bahamas
MQ00	Mozambique	TØ00	Tunisia
MY00	Malawi	TP00	N. Korea
		TU00	Turkey
NA	<b>United States of America (50)</b>	TX00	S. Korea
NB00	Gibraltar		
ND00	Spanish West Africa (Rio de Oro)	UJ00	Ifni
NE00	Niger	VA00	Alaska
NL	<b>The Netherlands (38)</b>	VM00	Gambia
NM00	Mauritania	VU00	Upper Volta (Haute Volta)
NØ00	<b>Norway (37)</b>		
NU00	Senegal	WE00	Papua New Guinea
NV00	Nigeria	WG00	Botswana
		WP00	Swaziland
ØE00	Philippines	WR00	Monaco
ØN00	Indonesia	WS00	Rhodesia (Zimbabwe)
ØV00	Borneo Islands		
		XH00	Togo
PH00	Sierra Leone	XQ00	Dahomey
PI00	Pacific Islands	XY00	Benin
PL	<b>Poland (40)</b>		
PN00	Pakistan	YB00	Sokotra
PØ	<b>Portugal (32)</b>	YH00	Fernando Po
PP00	Ruanda	YQ00	Equatorial Guinea
PQ00	Liberia	YS00	Somalia
PX00	Burundi	YU	<b>Yugoslavia (34)</b>
PY00	Ivory Coast	YY00	Congo (Brazzaville)
QA00	Bhutan	ZE00	Sri Lanka
QC00	Zanzibar & Pemba	ZI00	Zaire
QH00	Central African Empire	ZA33	San Marino
QJ00	Sikkim	ZM00	Zambia
QQ00	Cameroun		
QY00	Gabon		
RA48	Vatican City		
RN00	Bangladesh		
RØ	<b>Romania (41)</b>		

## THE NEW PLACE CODE: NUMERICAL EQUIVALENTS

As explained above the numerical components of the initial two columns of the place code may be used for area sorting if full computer facilities are not available. This listing (in number order) shows the areas covered. Where a single alphabetical pair is given after the figures this is the only one that appears but in any other case either the main area is shown with \* or \*\*\* to indicate that several different pairs are used to indicate neighbouring countries.

11	AA*	Australia and New Zealand
12	AB	Albania
13	AL	Angola
14	AU*	Austria
15	AN	Antarctica
16	JØ	Jordan
17	AG	Algeria
18	JH	Japan
19	AR*	Arabian Peninsula
21	***	South America
22	SS	Sudan
23	BL*	Belgium
24	SU	Soviet Union (European part)
25	SV	Sweden
26	SF	Finland
27	BG	Bulgaria
28	SY	Syria
29	SI	Soviet Union (Asiatic part)
31	***	Central America (including Caribbean)
32	CS	Czechoslovakia
33	LT	Libya
34	TU	Turkey
35	LE	Lebanon
36	TØ	Tunisia
37	CP*	China and Korea
38	CY	Cyprus
39	CI	Channel Islands
41	MA*	Morocco and associated states
42	DK	Denmark
43	ML	Malta
44	DD	DDR (German Democratic Republic)
45	MN	Mongolia
46	DF	BRD (Federal Republic of Germany)
47	MG	Madagascar (Malagassy Republic)
48	***	Malawi & Mozambique
51	***	North America
52	ES*	Spain (with Andorra and Gibraltar)
53	NL	Netherlands



54	***	Senegal and Mauritania etc.
55	***	Niger & Nigeria
56	NØ	Norway
57	EG	Egypt
58	EQ	Ethiopia
59	ER	Republic of Ireland
61	FA	Faeroes
62	WS	Rhodesia (Zimbabwe)
63	FT	Chad
64	FM	Namibia
65	***	South East Asia
67	FP	Republic of South Africa
69	FR*	France
71	PI	Pacific Islands
72	GB	Great Britain (England, Scotland, Wales) and Northern Ireland
73	PL	Poland
74	GD	Greenland
75	PN*	Pakistan and Afghanistan
76	PØ	Portugal
77	***	Kenya, Uganda, Ruanda and Burundi.
78	***	Ghana, Guinea, Ivory Coast, Liberia, Sierra Leone, Dahomey & Togo
79	GR	Greece
81	***	Himalayan States
82	YS	Somalia
83	HT*	Tanzania (with Zanzibar and Pemba)
84	YU	Yugoslavia
85	HE	Switzerland
87	HG	Hungary
88	***	Congo Brazzaville, Cameroun, Gabon & Central African Empire
91	IA*	Italy
92	IS	Iceland
93	IL	Israel
94	ZM	Zambia
95	IN*	India with Bangladesh and Sri Lanka
96	RØ	Romania
97	IP	Iran
98	IQ	Iraq
99	ZI	Zaire

## GEOGRAPHICAL CO-ORDINATES (Columns 35-42 and 55-62)

### Numeric with 11 and 12

Exact degrees and minutes to be coded, the leading 1 to be omitted from longitudes over 100°. For inaccurate co-ordinates 11 and 12 to be used as detailed below: the 11 if the inaccuracy is due to imperfect information, the 12 if the precise locality is being withheld for reasons of security (e.g. rare breeding species) but accurate details are held in a confidential file.

#### ACCURACY

#### CODING

Locality within 10' of  
co-ordinates punched

11 or 12 to be coded in the final  
column (minutes)

Locality within 1° of  
co-ordinates punched

11 11 or 12 12 to be coded in the  
final two columns (minutes and tens of  
minutes)

Locality within 10° of  
co-ordinates punched

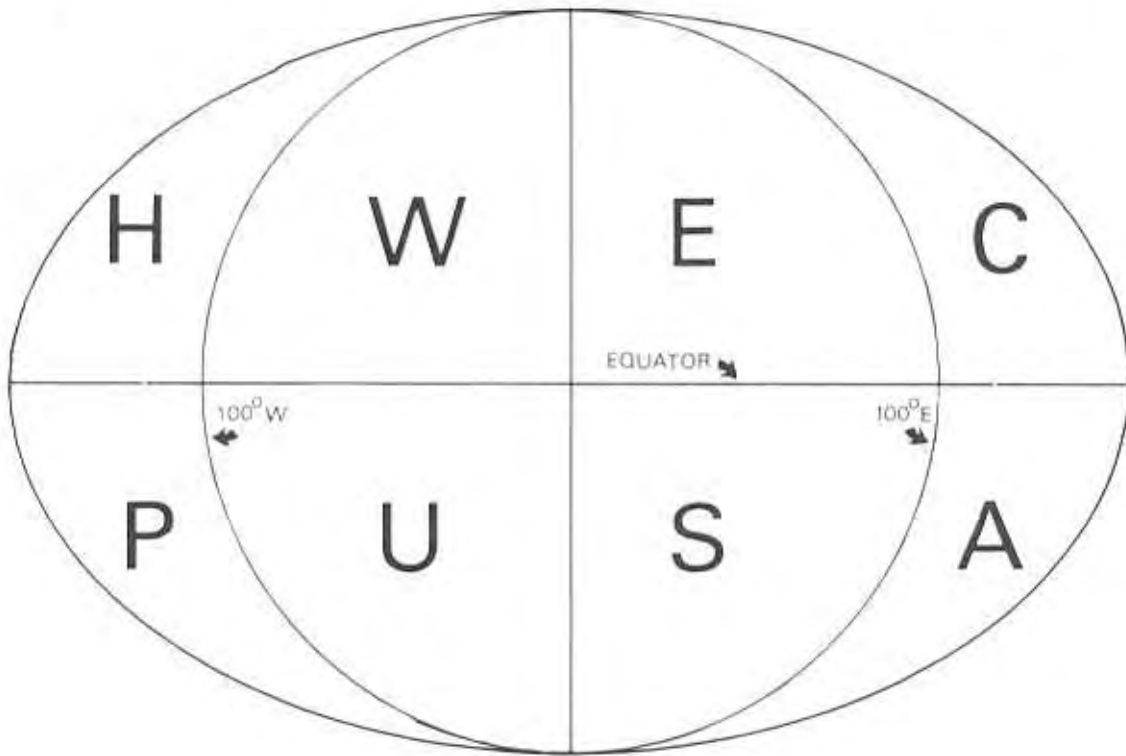
11 11 11 or 12 12 12 to be coded in the last  
three columns (degrees, tens of minutes and minutes).

The QUADRANT of the globe is indicated in the next column (43 or 63) by the eight letter code shown on the next page.

## QUADRANT (Column 43 and 63)

### *Alphabetic*

Letter code indicating quadrants of the world formed by the equator, 0°, 100°E, 180°, 100°W longitude. The letter code is as follows:



### **Comment and explanation**

For all EURING schemes the majority of the places that have to be coded are north of the equator and will simply be E or W. Other common ones (for different schemes) will be S and C and, to a lesser extent, U. These will be easily learnt by coders. Easy explanations of the letters are:

E	East	H	Hawaii
W	West	P	Pacific
S	South	U	Uruguay
C	China	A	Australia

These letters have been chosen for ease of use by schemes using sorters. The numeric part of the code, read by the sorter is as follows:

5	East	8	Hawaii
6	West	7	Pacific
2	South	4	Uruguay
3	China	1	Australia

and thus quadrants may be sorted on a single pass through most machines.

## FINDING CONDITION (Column 64)

*Numeric code gives the condition of the bird when found or the outcome of the act of finding. Note that inaccuracy of finding date coded as 11 can supplement code 3 in this column.*

Condition completely unknown	0
Dead but no information on how recently the bird had died (or been killed)	1
Freshly dead — within about a week	2
Not freshly dead — information available that it had been dead for more than about a week. NB for very long dead birds, use <u>11</u> in column 50, as well as 3 here (column 64)	3
Found sick, wounded, unhealthy etc. and known to have been released	4
Found sick, wounded, unhealthy etc. and not released or not known if released	5
Alive and probably healthy but taken into captivity	6
Alive and probably healthy and certainly released	7
Alive and probably healthy and released by a ringer	8
Alive and probably healthy but ultimate fate of bird is not known	9

**NB** Only where the finder provides wholly reliable information enabling a better estimate of the date of death to be determined from the circumstances of finding should that date of death be used (with appropriate accuracy code). Where there is any doubt the *finding* date must be coded and not an unreliable estimated date of death. For example:

- A) The bird was dead about three weeks. Code date of finding and 3.
- B) I visit the local lake every day to bird watch and noticed, on 1st January 1978, the body of a swan on an island. The bird had not been there the previous day. On 15th February a fisherman took me to the island in his boat and I found the enclosed ring on the Swan's remains. Code 01 01 78 and 2, not 15 02 78 and 3.

This column codes the **CONDITION** of the bird when found and is only modified by other columns where, as already mentioned above, 11 in column 50 is used to indicate that a bird has been dead for a very long time.

## FINDING CIRCUMSTANCES (Columns 65 and 66)

*Two digit numeric and hierarchic code; primary divisions as follows:*

- 99      Totally unknown circumstance: not even stated to be 'found'.
- 0      Unknown circumstances or unknown whether through man's agency or naturally (includes attracted to domestic animals).
- 1      Intentionally by man — shot.
- 2      Intentionally by man — other means (includes trapped, poisoned, ring number read in field etc.).
- 3      Accidentally by man — 'pollution'.
- 4      Accidentally through human agency (not 'pollution'): includes traffic accidents, collision with wires etc., entering man-made artefacts, accidents with machinery, drowned at artificial water. NB attracted to domestic animals is 0.
- 5      Natural causes — diseases and other natural ailments.
- 6      Predation by any animal other than man (except hunted by falconer's bird — which would be covered by 2 above).
- 7      Other 'natural causes': Drowned (natural water bodies), trapped, tangled and collided with natural objects and also climate and starvation (or thirst).

The full two-digit codes are given in the following pages. They may be modified by the succeeding four columns as follows (full details to be found when these columns are reached):

- Column 67    Finding details presumed, bird moved by water, intentionally by man or by other agency, held or transported before release.
- Column 68    Previous reports filed, ring added, changed or removed, colour ring changed.
- Column 69    Status at recovery; relatives recovered.
- Column 70    Moulting flight feathers, moult card completed, biometrical record taken

To assist coders a range of examples of the complete coding of the finding details field (columns 64–70) is given on page 72.

## FINDING CIRCUMSTANCES (Columns 65 and 66)

### PRIMARY DIVISION Miscellaneous:— (Column 65: 9 or 0)

Unknown, attracted to domestic animals, on ship, ringing casualty (whether through ringer or ring)

- 99 No information at all, ring number written on postcard (for example) with no mention of the bird, whether found, whether dead or alive.
- 00 'Found' (letter reports 'found'), no mention of the bird or its body in recovery report
- 01 Found, bird or body mentioned in recovery letter
- 02 Ring only found in circumstances where the bird could have ended its life without transported information in column 67. Column 67 to be used to indicate that ring had been moved e.g. found at Post Office, in chest of drawers etc.
- 03 Ring and leg only found in natural circumstances (column 67 used as above).
- 06 Found on ship unless there is further indication that the bird was caught in fishing gear, hit wires, attracted to lights etc. where these should be coded rather than 06
- 07 Joined or attracted to domestic animals or birds. NB 12 or 22 should be used if the bird has been shot or trapped to protect the birds or animals to which it has been attracted.
- 08 Dead or seriously harmed by ringer through catching or handling processes.
- 09 Recovery caused by the ring or mark on the bird — this includes becoming entangled because of the ring and being recovered as a result of injuries caused by the ring.

### PRIMARY DIVISION Shot (Column 65: 1)

- 10 Shot — not for reasons 12-16 below
- 11 Found shot
- 12 Shot to protect crops, foodstuffs, animals or game species
- 13 Shot in the course of nature protection procedures (e.g. gulls culled to protect young waders or terns, gulls culled to provide nesting habitat for other species).
- 14 Shot to protect human life — air-strike prevention, human health consideration (roosts on buildings, gulls roosting on drinking water reservoirs)
- 15 Shot to provide plumage for decoration or commerce (taxidermy, fishing lures etc.) OR shot as part of a scientific investigation (but NOT because the individual was ringed).
- 16 Shot because it was ringed or marked.
- 19 'Capturado', 'Tué' etc. — words or phrases used in various languages indicating that the bird has been 'hunted' and is likely to have been shot in the majority of cases rather than to have been taken by other means.

**PRIMARY DIVISION Intentionally by Man (not shot) (Column 65: 2)**

- 20 Hunted, trapped, poisoned intentionally by man (NB not shot).  
Not for reasons set out 21-26 below
- 21 Trapped for caging — may be used with the condition code to deal with birds found in captivity and with 'Moved intentionally by man' in column 67 to deal with birds not caught at the finding place. NB birds taken into captivity for treatment are not included here.
- 22 Trapped, poisoned etc, to protect crops, foodstuffs, animals or game species. Compare with 12 above.
- 23 Trapped, poisoned etc, during nature protection procedures. Compare 13 above.
- 24 Trapped, poisoned etc, to protect human life. Compare 14 above.
- 25 Trapped, poisoned etc, for plumage or during scientific investigation. Compare 15 above.
- 26 Trapped, poisoned etc, because it was ringed. Compare 16 above.
- 27 Found at or in nest-box or other structure specially placed or modified by man for birds to use — compare 46
- 28 Ring number of metal ring read in field without the bird being caught.
- 29 Bird identified as an individual in the field from colour marks, bird not caught.

**PRIMARY DIVISION Accidentally by Man — 'Pollution' (Column 65: 3)**

- 30 Oil
- 31 Contact with discarded human materials (old tins, discarded fishing line, metal swarf, sticky substances (not oil) etc.).
- 32 Contact with human artefacts which are still in use and NOT intended as protection against birds or set to trap birds or other animals — e.g. tangled in barbed wire, caught in sports netting, caught in fish-nets hanging to dry on the shore.
- 33 Entangled in crop protection nets (include fruit netting, nets over stored food-stuffs or over fish-ponds. Threads or fibres, not made into nets, but used for crop protection also included here).
- 34 Accidentally trapped where the intention was to trap other species of birds or vertebrates (e.g. *Erithacus rubecula* in trap for *Pyrrhula pyrrhula* in an orchard, a bird caught in mouse-trap, a bird caught in fish nets or on fish-hook WHILST nets or hook were being used to catch fish).
- 35 Electrocuted. This over-rides codes for 'Hit wires' (43) or 'Entered building' (46) where there is good evidence that the bird would not have been recovered if it were not for the electrocution.
- 36 Radio-activity
- 37 Poisoned through chemical pollution. Chemical identified (one or more may be involved) and details available from national ringing centre (e.g. Metallic lead poisoning for *Cygnus olor*, Dieldrin for a raptor). NB If there is evidence that the chemical was being used intentionally see codes 20-26 and 34.
- 38 Poisoned through chemical pollution but identity of chemical agent (agents) not known (see 37 above).

**PRIMARY DIVISION Accidentally through human agency (not 'pollution') (Column 65: 4)**

- NB 40-42 are traffic accidents, 43-45 are collisions with static objects.
- 40 Road — used with column 67 to indicate as follows:  
0 in 67 Definitely through impact with road vehicle  
1 in 67 Dead on road, traffic accident presumed  
2 in 67 Hit by vehicle and moved from point of impact by it.
- 41 Railway — used with column 67 as above.
- 42 Aircraft — used with column 67 as above. Care needs to be taken as to whether impact with aircraft or ground vehicle is cause of recovery on airfields. When in doubt code 42 and 1 in column 67.
- 43 Collision with (or presumed, using column 67) THIN man-made structure — wires, wires, masts, cables, ship's rigging, aerals etc. (see below for THICK.)
- 44 Collision with (or presumed, using column 67) glass or other transparent materials — windows, wind-breaks, windows of static vehicles
- 45 Collision with (or presumed, using column 67) THICK man-made structure — building, bridge etc.
- 46 Entered man-made structure *NOT* built or modified to trap animals (see 34) or as a nest-box (see 27) — building, letter-box, etc. Column 67 allows for coding of status (e.g. roosting, breeding etc.).
- 47 Attracted to lights (not being used as a deliberate trapping method) — often associated with foggy weather — NB P or S in column 69 indicates at lighthouse or light-ship.
- 48 Recovered as a result of active human occupation. The analyst may use this as a flag to obtain further information since many different sorts of record will receive this code. For example:  
Industrial (e.g. caught in moving belt, blasting operation at mine).  
Agricultural (e.g. caught in automatic vent of greenhouse, trapped by plough)  
Forestry (e.g. killed by tree being felled, crushed between floating logs)  
Sporting (e.g. killed by golf ball, caught by fielder in cricket match)  
Military (e.g. killed on bombing range, concussed by artillery fire).
- 49 Drowned in artificial water container — water butt, forestry fire tank etc. where the edges of the water surface are artificial and may trap any bird in the water (NB category 70 would apply to a garden pond).

**PRIMARY DIVISION Natural Causes — Diseases Etc. (Column 65: 5)**

- 50 Contusions, breaks, general trauma where no other cause given.
- 51 Malformations (congenital, mechanical (e.g. from broken bill) or from tumors).
- 52 Fungal infections (e.g. aspergillosis etc.)
- 53 Viral infections
- 54 Bacterial infections (but see 56 below).
- 55 Other endo-parasites (e.g. blood-parasites, nematodes, trematodes etc.).
- 56 Botulism
- 57 Red-tide (dinoflagellate poisoning).
- 58 Combination of any of the above without definite single cause being known.
- 59 Veterinary examination made and report available — no positive conclusions.



**PRIMARY DIVISION** Predated, other than by Man (Column 65: 6)

- NB Taken by trained falconer's bird should be coded 20.
- 60 Taken by unspecified animal
- 61 Taken by cat
- 62 Taken by other domestic animal or one in captivity (e.g. farmed mink or zoo animals: includes poultry, reptiles etc. in captivity)
- 63 Taken by wild or feral mammal (include escaped mink).
- 64 Taken by owl or raptor — exact identification of predator available.
- 65 Taken by owl or raptor — exact identification of predator not known
- 66 Taken by other species of bird (not conspecific)
- 67 Taken by conspecific
- 68 Taken by reptile, amphibian or fish
- 69 Taken by other animals (e.g. wasps, ants, bees, spiders etc)

**IMPORTANT**

As with all other parts of the column 65 and 66 codes, the actual fact of killing is given in the code punched for column 64 (finding condition). In practice 861 could be used for an apparently healthy bird taken by a ringer from a cat and released.

**PRIMARY DIVISION** Other Natural Circumstances (Column 65: 7)

- 70 Drowned — note 49 if in an artificial water container, and also 'Moved by water' possibilities for coding in column 67.
- 71 Tangled in natural object (e.g. tree, sheep's wool etc.) — NB tangling in ring or mark is coded 09
- 72 In natural hole or cave (NB column 67 allows breeding, roosting etc. to be coded).
- 73 Collided with any sort of natural object (e.g. tree, cliff etc.). If collision during violent storm etc. code as 78.
- 74 Poor condition with indication that cold weather was cause.
- 75 Poor condition with indication that hot weather was cause.
- 76 Poor condition, starvation or thirst may be mentioned but no indication of cause leading to poor condition of the bird.
- 77 Caught in ice
- 78 Violent climatological phenomena were involved in the recovery — strong winds, tempests, hail, whirlwind, floods etc.

**FINDING DETAILS PRESUMED, BIRD TRANSPORTED BEFORE RECOVERY  
OR TRANSPORTED OR HELD BEFORE BEING RELEASED WITH RING  
(Column 67)**

*Numeric code unless eventually released after transportation or holding, in which case alphabetic code.*

* Moved by water (e.g. found on shoreline)	-	-	-	-	-	-	+	+
* Moved intentionally by man	-	-	-	-	+	+	-	-
* Moved unintentionally by man or by other agency	-	-	+	+	-	-	-	-
Finding details presumed	-	+	-	+	-	+	-	-
Bird not held in captivity for more than 24 hours before release or not transported more than 10 km before release	0	1	2	3	4	5	6	7
Bird release with ring on after being held more than 24 hours or being transported more than 10 km	Z	A	B	C	D	E	F	G

\*NB The movement indicated by these codes is that which has happened before the recovery has been reported and indicates that the bird may have last been alive in the wild state at some place other than the recovery locality coded. The alphabetic codes act as flags if the bird is found once more, they show that it was held or transported following the recovery coded here.

**NB**

**MOVED BY WATER** This category will not only include birds floating down river or drifting in the tide at sea but also corpses found stranded on the tide-line, found in flotsam inland after floods or found on the shore of large lakes (big enough for there to have possibly been significant displacement of the body after death).

**MOVED INTENTIONALLY BY MAN** will include caged birds offered for sale in markets or shot game birds offered for sale where it is not possible to discover where they were caught or killed. It should also be used for ring or ring and leg (03 and 04 respectively in columns 65 and 66) found in circumstances where it is obvious that they have been moved by man intentionally (e.g. in a Post Office, in a drawer).

**MOVED BY OTHER AGENCY** Will most commonly be used for unintentional movement by man when the bird has been struck by and stuck in a moving vehicle. However it can be used for birds killed by predators where they may have moved their (ringed) prey a significant distance.

**FINDING DETAILS PRESUMED** can be used in combination with the entries in columns 65 and 66 to modify the finding circumstances, e.g. changes 43 'Killed against wires' to 'Found under wires' etc.

PREVIOUS REPORTS, CHANGES TO RING OR COLOUR RINGS  
(Column 68)

*Mixed*

\* Bird not released or bird released but without identification ring (ring removed)

Not previously reported	0
Previous report filed by national scheme	1

Bird released with identification ring (\*but see below)

No previous record filed for this bird	+	+	-	-
Previous record filed by national scheme	-	-	+	+
Metal ring not removed, not added, not changed	+	-	+	-
Metal ring added or changed	-	+	-	+
No colour marks reported on recovery (includes birds which were not originally colour ringed)	2	3	4	5
Colour marks reported on recovery — no change on release	6	7	8	9
Colour marks removed at time of recovery — bird released without them but with metal ring	B	C	D	E
Colour marks added at time of recovery — bird released with them and with metal ring	K	L	M	N

\* For birds which were originally colour marked, codes 2, 4, 6 or 8 should be used rather than 0 or 1.

**Explanation** The information about colour marks coded above is recorded because the presence of colour marks may often influence the chances of an individual bird being reported again. Obviously the complicated part of this code is mainly for use when the bird is released, with a metal ring following the recovery being coded.

**NB** In all cases the ring number coded for any bird should be the first ring put on it. The first record does not need a special mark but every subsequent record must be 'previous record filed for this bird'. This even applies to same place retraps IF they are recorded on the file of recoveries but not, of course, if they are not included in the recovery file.

STATUS WHEN FOUND, OTHER RELATIVES RECOVERED (Column 69)

*Mixed*

Status code exactly matches that in column 21 for ringing

Status	No previous record filed for relative	Previous record fellow broodmember	filed for parent, mate or offspring
Unknown or unrecorded	O	Z	Y
Nesting	N	A	1
Roosting assemblage	R	B	2
In Colony (not necessarily breeding)	K	C	3
Moulting assemblage (whether bird moulting or not)	M	D	4
Apparently a local bird but not breeding	L	E	5
Apparently a bird wintering in the locality	W	F	6
On passage — certainly not a local breeding or wintering bird (includes birds attracted to lighthouses)	P	G	7
At sea — birds on boats, light-ships or oilrigs	S	H	8

NB. The first column should be used if it is not possible to say, for certain, whether there is a record previously filed for a relative of the bird in question.

## MOULT AND BIOMETRICS ON FINDING (Column 70)

### *Numeric*

Coded according to the decision table below. The information that a moult card has been completed and a biometrical record taken are 'flags' for the user to contact the relevant organisation for details if he so wishes. The fact that the bird was moulting its flight feathers may be used as data.

NOT ACTIVELY MOULTING	-	+	-	-	-	-	-	-	-
FLIGHT FEATHERS MOULTING*	-	-	-	-	-	+	+	+	+
MOULT CARD COMPLETED	-	-	-	+	+	-	-	+	+
BIOMETRICAL RECORD TAKEN	-	-	+	-	+	-	+	-	+
CODE	0	1	2	3	4	5	6	7	8

\* Not to be used in the case of accidental moult of a few flight feathers (remiges and rectrices) or incomplete replacement of inner secondaries (or part or all of tail) during a partial moult.

N.B. Code 0 should be used where no information is available and code 1 only where it is certain that the bird was not actively undergoing a full moult.

## DERIVED DATA (Columns 71-79)

Distance and direction will be calculated by computer and punched in these columns according to the codes indicated below. With the introduction of exact coding (to nearest minute) of co-ordinates, the calculated direction and distance information will be much more accurate than those calculated using the existing EURING code (co-ordinates to nearest six minutes) when the distance is short. There will therefore be no need for any centre to punch directly these data.

### DISTANCE (Columns 71-74)

Calculated by computer. 0000-9999, A000-A999, B000-B999 *et seq* punched to indicate distance in kilometres letters used to enable all distances to be shown exactly. A000 = 10 000, A999 = 10 999, B000 = 11 000 as follows:

A 10 000 added, B 11 000 added, C 12 000 added, D 13 000 added  
E 14 000 added, F 15 000 added, G 16 000 added, H 17 000 added  
J 18 000 added, K 19 000 added, L 20 000 added.

Where any or all of the co-ordinates of ringing or finding places are given as inaccurate the distance punched will indicate this as follows:

Co-ordinate accuracy                  Distance punched

Any longitude or latitude with 11        or 12        12311 (to nearest ten kilometres)

Any longitude or latitude with 11 11    or 12 12    12 11 11 (to nearest hundred kilometres)

Any longitude or latitude with 11 11 11 or 12 12 12 111 11 11 (to nearest thousand kilometres)

### DIRECTION (Columns 75-77)

Calculated by computer and printed as 001-360, in degrees (360 = 000 = N). 11 11 11 indicates no movement. The computer will in every case enter a direction, but because an accurate direction cannot be calculated from inaccurate co-ordinates, users should check the distance columns above (71-74) for any indication of inaccuracy.

### ELAPSED TIME (Columns 78 and 79)

The elapsed time between ringing and recovery dates will be calculated by computer and punched in these two columns as follows:

0D, 1D, 2D... 9D	Same day, one day, two days . . . nine days
1W, 2W . . . . . 9W	One week (9-14 days), two weeks . . . nine weeks
2M, 3M . . . . . 9M	Two months, three months . . . nine months
00, 01 . . . . . 99	Elapsed time in years: 00 being ten or eleven months.

## CARD IDENTIFIER (Column 80)

### *Numeric*

This column identifies the type of card involved:

- 0 Old EURING Code
- 1 Old EURING code used to produce original record now translated to new(1979)code. This will be done by computer with a very small minority of records needing to be investigated by each ringing centre. The co-ordinates on these cards will always have the minutes divisible by 6, having been translated from old EURING cards with tenths of degrees punched.
- 2 New (1979) EURING code.

## EXAMPLES OF FINDING DETAILS CODED

Finding circumstances	New Proposals						
	64	65	66	67	68	69	70
Found injured: destroyed	2	0	1	0	0	0	0
Killed by man, method unknown	2	2	0	0	0	0	0
Shot	2	1	0	0	0	0	0
Caught, method and fate unknown	0	2	0	0	0	0	0
Trapped and released: colour rings removed	7	2	0	0	B	0	0
Trapped in duck decoy and killed	2	2	0	0	0	0	0
Caught and released by ringer	8	2	0	0	2	0	0
Caught on entering building, fate unknown	9	4	6	0	0	0	0
Observed only — ring number read in field	7	2	8	0	2	0	0
Killed by cat: previous recovery filed	2	6	1	0	1	0	0
Found freshly dead on road	2	4	0	1	0	0	0
Hit window recovered and released	7	4	4	0	2	0	0
Found (unknown whether dead or alive)	0	0	0	0	0	0	0
Found dead	1	0	1	0	0	0	0
Reported as dead (? found or killed)	1	9	9	0	0	0	0
Reported as 'Still alive' — fate unknown	9	9	9	0	0	0	0
Ring only found in the field	0	0	2	0	0	0	0
Ring sent — no comment	0	9	9	0	0	0	0
Caught: fate of bird unknown and whether intentional or not	0	2	0	1	0	0	0
Presumed dead	0	9	9	0	0	0	0
Blown up with dynamite at quarry	2	4	8	0	0	0	0
Killed by farm mink	2	6	2	0	0	0	0
Killed by wild mink	2	6	3	0	0	0	0
Found wounded and released without ring	4	0	1	0	0	0	0
Found under overhead wires, dead	1	4	3	1	0	0	0
Electrocuted on overhead wires	2	3	5	0	0	0	0
Found electrocuted having entered electrical station	1	3	5	0	0	0	0
Electrocuted (mate already recovered)	2	3	5	0	0	Y	0
Victim of botulism	1	5	6	0	0	0	0
Encountered alive in nestbox: (breeding)	7	2	7	0	2	N	0
Encountered alive in nestbox: (breeding) by a ringer	8	2	7	0	2	N	0
Shot with catapult	2	2	0	0	0	0	0
'Capturado', 'Tué', etc.	2	1	9	0	0	0	0
Found as caged bird in market	6	2	1	4	0	0	0
For sale at poultry shop, freshly shot	2	1	0	4	0	0	0
Moulting bird caught in moulting flock by ringer colour rings added (goose or swan)	8	2	0	0	K	M	5
Found oiled on tide-line — dead about 3 weeks	3	3	0	6	0	0	0
Caught by ringer, attracted to light-house	8	4	7	0	2	P	0
Gull poisoned in colony to protect nearby airfield	2	2	4	0	0	K	0
Found with broken wing, destroyed at roost	2	0	1	0	0	R	0
Freshly dead on shore during outbreak of dinoflagellate poisoning	2	5	7	7	0	0	0
Body found stuck in radiator of long-distance bus	2	4	0	2	0	0	0
Ring only found by use of metal detector in fields	0	0	2	0	0	0	0
Freshly dead, 150 ppm Dieldrin in liver	2	3	7	0	0	0	0
Shot by game-keeper (of a corvid)	2	1	2	0	0	0	0
Drowned in garden water butt	1	4	9	0	0	0	0
Entered building, stunned against window and released: colour rings reported	7	4	6	0	6	0	0