

EURING

Code Manual

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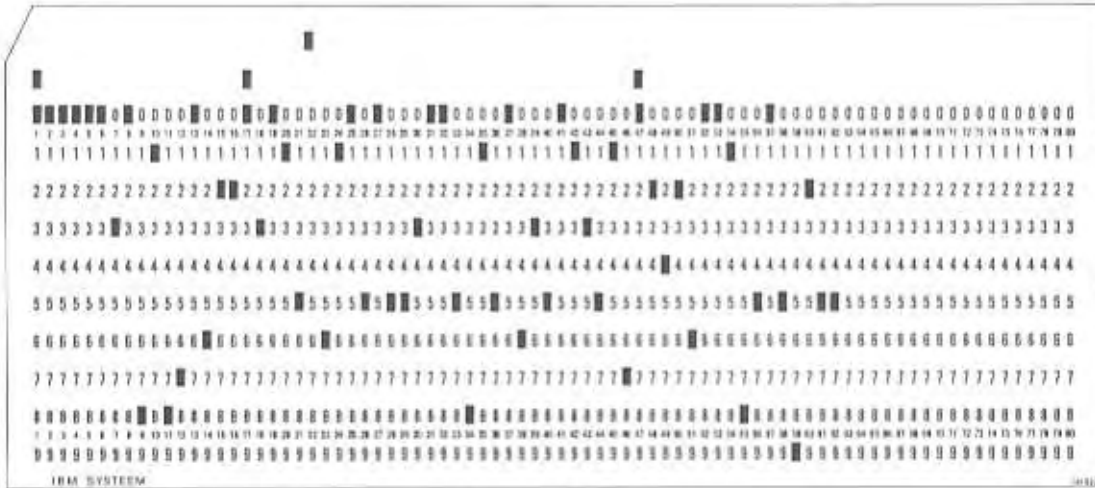


FIGURE 1

SCHEME BING No.	Leiden 308.187	X		00	0000300107
SPECIES	Kleine rietgans Anser fabalis brachyrhynchus Pink-footed Goose	SEX AGE STATUS	♂ 1e jaars / 1st year	0	3
FINDING DATE	15-12-1961	15	12	61	0
FINDING PLACE	Akmarijp (Friesland) Holland	505	530	050	
FINDING COORD.	53.01 N 05.49 E	15	0	63	5
FINDING DATE	00-10-1963	013	517	024	
FINDING PLACE	Slimbridge (Gloucestershire) Great Britain	2	6	0	
FINDING COORD.	51.44 N 02.25 W	ITBON			
FINDING DETAILS	aangereden, kort daarna gestorven/ hit by car, died shortly afterwards (Pink-footed Goose)	Wildfowl Trust			
FINDER	ITBON	291063			
FINDER	Wildfowl Trust				
REF.	291063				

FIGURE 2

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 numeral 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 can be used in combination with one of the other ten positions. They provide a means of indicating special signs or letters. In this code list they are also used as independent punches, indicating the numbers 11 and 12 in one column.

The 80 columns are arranged in groups, each group dealing with one section of the information, e.g. ten columns are allocated to ring number. A survey of these groups is given below.

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), determined by reference to this code. Overpunches, used as the figures 11 or 12, can be indicated in one square by writing 11 or 12 (e.g. to indicate the months November and December in squares 22 and 37).

The top corners of some of the squares contain a small inset square. When this is crossed out, it indicates the use of an overpunch combined with a normal punch.

A left top inset square indicates an additional 11 overpunch.

A right top inset square indicates an additional 12 overpunch.

These additional overpunches are used to record that the ring has been received (square 1), to show that the longitude is west not east (squares 32 and 47), to indicate sex (square 17) etc.

When coding of the recovery is complete, the punch card is then prepared at the punch card centre by means of a machine.

N.B. Code numbers cannot be altered and additions must be made only in consultation with EURING.

Specifications of the recoveries which should not be sent to EURING are given on p.52.

RINGING SCHEME (columns 1 and 2, sometimes also 3 and 4)

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. To avoid using code numbers on extinct or very small schemes most of these are combined with the main schemes by an additional figure in column 3. For this additional figure overpunches 11 or 12 are most suitable, since then the whole column 3 remains free for the ring numbers (including letters) of the main scheme. Where, for a certain country, there were too many small or extinct schemes to be incorporated in one group with the main scheme, they have been combined under one separate number, each scheme being again characterised by a specific figure in column 3. An overpunch is not necessary in this case. The observatories of Bologna have been treated in the same way.
4. Private ringing schemes (except Skovgaard and Witherby) as well as zoos and avicultural societies are indicated by number 99. For their discrimination see under RING NUMBER.
5. The schemes are divided into European schemes, numbered from 00 onwards and non-European schemes, numbered from 98 backwards.
6. The sequence is alphabetical and numerical (code number). Minor or extinct schemes falling under the number of another scheme (see above), and therefore standing out of the alphabetical order, are additionally listed in their alphabetical position. When this occurs their code number is given after the name, a method which is used also for synonymic names.
7. Extinct schemes are indicated with +.

A. European Schemes

	Aberdeen 131, 132	09	Hiddensee (Germany)
00	Arnhem/Leiden (Holland)	10	Jersey (Channel Islands)
01	Ås/Oslo Museum (Norway)	11	Kalø (Denmark)
021	Bologna A(ncogna) (Italy)		Kaunas + 160
022	Bologna Ge(nova)		Leiden/Arnhem 00
023	Bologna Pi(sa)		Leipa/Liboch + 20 <u>11</u>
024	Bologna Sardo (Sardinia)		Leningrad + 161
025	Bologna Univ. (Garda lake)+		Ljubljana 32 <u>11</u>
026	Bologna Zool.(Mesola)	12	London Museum (United Kingdom)
027	Roma (Castelfusano)	130	London Witherby +
028	Sicilia	131	Aberdeen (Landsborough Thomson, 1909-1918)+
03	Bruxelles (Belgium)	132	Aberdeen (Grouse study 1958 -)
03 <u>11</u>	Belgique N.F.B.V.V.	133	Fordingbridge
04	Bucarest (Romania)	134	Orielton +
05	Budapest Orn. & Mad. (Hungary)	135	England W.A.G.B.I.
05 <u>11</u>	Budapest Museum +	14	Madrid (Spain)
06	Copenhagen (Denmark)	15	Moskwa (U.S.S.R.)
	Fordingbridge 133	160	Kaunas (Lithuania) +
	Göteborg + 290	161	Leningrad +
07	Helgoland (Germany)	162	Riga (Latvia) +
08	Helsinki Museum (Finland)	163	Tartu (Estonia) +
08 <u>11</u>	Helsinki Riista +		

* when subscheme is unknown code 020

- 17 Oradea (Romania)
Orlelton + 134
Oslo Museum/Ås 01
Oslo Jeger + 271
Oslo Univ. + 2712
- 18 Paris (France)
- 181 Versailles +
- 19 Porto (Portugal)
- 20 Praha (Czechoslovakia)
- 201 Prag-Lotos +
- 21 Radolfzell/Rossitten
- 211 Radolfz.Südd.Vogelw. +
- 2112 Tschammendorf +
- 22 Reykjavik (Iceland)
Riga + 162
Roma 027
Rossitten/Radolfzell 21
- 23 Salzburg (Austria) +
- 24 San Sebastian (Spain)
- 25 Sempach (Switzerland)
Sicilia 028
- 26 Sofia (Bulgaria)
- 27 Stavanger (Norway)
- 271 Oslo Jeger +
- 2712 Oslo Univ. +

- 28 Stockholm Museum (Sweden)
- 290 Göteborg +
- 291 Stockholm Ornis +
- 292 Stockholm Jäger +
- 293 Stockholm Skansen +
Tartu + 163
Tschammendorf + 211
- 30 Varsovia (Poland)
Versailles + 181
- 31 Viborg Skovgaard (Denmark)
- 32 Zagreb (Jugoslavia)
- 321 Ljubljana +

B. Non-European Schemes

- 98 Bombay (India)
- 97 Cairo (Egypt)
- 96 Congo (Congo Leopoldville)
- 95 Jos (Nigeria)
- 94 Nairobi (Kenya)
- 93 Pretoria (South Africa)
- 92 Washington (U.S.A.)

- 99 see introductory remark 4
of this section.

RING NUMBER (columns 3 - 12)

1. Columns 3, 4 and 5 are reserved for introductory groups of letters, figures, or letters and figures. Where the serial letter comes at the end of the number, it should, of course, be entered in square 12.
2. *Letters* can be entered as such in the appropriate squares of the recovery form.
3. When the *ring number* has been verified by the ringing scheme (ring, pencil-rubbing or photo of the ring received) the small square in the left top corner of square 1 should be crossed out.
4. *Private ringing schemes* (collected under No.99 of RINGING SCHEMES) are differentiated by punching in columns 3 and 4 the first two letters (neglecting the letters I and O) of the family name (or the name of the scheme) printed on the rings.
5. Column 3 serves also to distinguish related schemes (see under RINGING SCHEME, Introductory remark 3).
6. When a figure cannot be read, the square in question should be left blank.

Examples:

43067 is in code: 0000043067	Pedersen	389 is in code: PE 00000389
K 768 is in code: K000000768	Mortensen	K 2754 is in code: MR K0002754
14B 3498 is in code: 14B0003498	Cogels	8888 is in code: CG 00008888
582 -9876 is in code: 5820009876		
73908 A is in code: 000073908A		

SPECIES, SUBSPECIES (columns 13 - 16)

1. Code numbers for the species are taken from the book "Nomina Avium Europaeorum" by Harriet Jørgensen (1958) Copenhagen. An alphabetical list of species (Latin names) is to be found on pp. 47 - 51.
2. *Subspecies* are recorded in square 16. The name of the sub-species should be entered on the left hand part of the form only when it has been clearly recognised as such, *not by deducing it from the position where the bird was ringed*. If the sub-species is unknown, enter 0 in square 16. Code numbers of certain important subspecies are included in the list of species on pp. 47 - 51. The coding of any subspecies not in this list should be left to EURING.

IMPORTANT NOTE In "Nomina Avium Europaeorum" several sub-species have separate numbers, just as if they were species. These numbers have therefore been altered for this code so that all subspecies of one species have the same three-figure number.

3. When the species is unknown, or the identification is unreliable, the recovery should not be sent to EURING.
4. When the species identification of the finder tallies *exactly* with that of the ringer the small square in the left top corner of square 13 should be crossed out, and similarly for subspecies by marking the inset for square 16.

SEX; NUMBER OF YOUNG IN NEST (column 17)

A. Sex: overpunches 11 and 12 to be used in combination with the other punches and to be indicated by crossing out the appropriate inset square

11 male

12 female

no overpunch: sex unknown

B. Number of young in brood: punches 0-9

0 unknown

1 1 nestling

2 2 nestlings

etc.

9 9 or more nestlings

AGE (WHEN RINGED) & PLUMAGE (column 18)

A. *plumage*: overpunches 11 and 12, to be used in combination with the other punches and to be indicated by crossing out the appropriate inset square.

11 special indications on moult are given or the bird is just said to be moulting or in eclipse plumage.

12 bird still in immature or partly immature plumage.

B. *age*: punches 0 - 9

- 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 *1st year*: full-grown bird born in the breeding season of this calendar year.
- 4 *after 1st 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, counting from the present year; year of birth otherwise unknown*.

* In gulls and gannets, this category can be narrowed down further by indicating that the bird still wears immature plumage (overpunch 12).

SYSTEM OF AGE CATEGORIES

(1) pullus

(2) full-grown (3) 1st year (5) 2nd year (7) 3rd year
(4) after 1st year (6) after 2nd year (8) after 3rd year

REMARK: Any age system based on "bird years" is very difficult to apply because the breeding season differs from species to species. For simplicity, therefore, the age classification is based on calendar years.

Examples:

A bird caught in December 1965 and identified as having been born in 1965 is called "1st year". On 1st January 1966, the same bird would be called "2nd year".

In a similar way, a bird born before 1965 (exact year unknown) would be called "after 1st year" before 1st January 1966 and "after 2nd year" after this date. Birds aged as "full grown" in 1965 become "after 1st year" birds in 1966.

WARNING: The terms "juvenile" and "adult" may give rise to mistakes in coding. Both terms have been used with different meanings. "Juvenile" can indicate (1) a pullus (2) a 1st year bird (3) a bird wearing immature plumage. "Adult" has been used for (1) full-grown birds, (2) birds after 1st year and (3) birds not wearing immature plumage.

EURING advises members to drop these terms.

STATUS (column 19)

A. *overpunch* 11 to be used in combination with the other punches and to be indicated by crossing out the appropriate inset square.

11 carrying colour rings or other additional marking devices.

B. *punches* 0 - 9

- 0 healthy wild bird, with no special status
- 1 healthy wild bird, breeding bird, found incubating or feeding small young.
- 2 healthy wild bird, caught at roost.
- 3 healthy wild bird, caught at lighthouse.
- 4 healthy wild bird caught by special means: e.g. duck decoy in case of ducks.
- 5 healthy experimental bird, *not* displaced, but may have been in captivity for some time.
- 6 healthy experimental bird, *released in the locality named* but caught elsewhere (displaced).
- 7 held in captivity as full-grown, wild bird: e.g. victims of frost.
- 8 domesticated or hand reared, but released to wild state as healthy bird.
- 9 sick, injured or oiled when ringed.

NOTE: Recoveries in categories 5 - 9 should not be sent to EURING, except victims of cold weather (category 7) held in captivity for 10 days or less and birds displaced over distances shorter than 10km. (category 6).

DATE OF RINGING (columns 20 - 25)

DATE OF FINDING (columns 35 - 40)

Day (columns 20,21 & 35,36)	Month (columns 22 & 37)	Year (columns 23,24 & 38,39)
00 day unknown and not guessed *	1 January	64 = 1964
01 1st day of month	9 September	00 = 2000
31 31st day of month	0 October	<u>11</u> <u>11</u> = unknown
	<u>11</u> November	<u>6</u> <u>11</u> = 196-
	<u>12</u> December	(e.g. 1963 or 1964)
	blank unknown*	

- For inaccurate dates see next page

Be careful not to use a zero for "month unknown", a zero means October.

ACCURACY OF DATE AND PLACE (columns 25 & 40)

A. accuracy of place:

Overpunch 12, to be used in combination with the other punches and to be indicated by crossing out the appropriate inset square.

12 exact geographical coordinates of place unknown; the given coordinates are from the centre of the *area* in which the bird is known to have been ringed or found, or they are guessed in some other way.

B. accuracy of date: punches 0-9 and 11

The date of death is seldom known accurately, but in most cases the period in which it must lie is known. In general the day in the middle of this period should be coded as an exact date, and the degree of accuracy is to be indicated in column 25 or 40. These degrees of accuracy are given below together with rules for the exact date to be coded in more complicated cases.

<i>Accuracy code</i>	<i>date to be coded</i>
0 date accurate to the day	
1 (ringing date) <i>issuing date of ring</i> known only (recovery date) <i>date of report</i> known only	issuing date date of report
2 date known within ca. 7 days	
e.g. "first week"	4th day of month
"second week"	11th day of month
"third week"	18th day of month
"fourth week"	25th day of month
"last week"	28th day of month
3 date known within ca. 10 days	
e.g. "beginning of month"	5th day of month
"middle of month"	15th day of month
"end of month"	25th day of month
4 date known within ca. 15 days	
e.g. "first half of month"	8th day of month
"second half of month"	23rd day of month
5 only month and year are known	15th day of month
6 date known within 2-6 months	exact date of middle of period
e.g. "January-March"	15th February
7 season known only	
"spring"	15th of April
"summer"	15th of July
"autumn"	15th of October
"winter"	15th of January
"trapping, hunting or breeding season"	guessed date of middle of season or if this is impossible code day and month as unknown
B only the year is known, or date is known only within a period longer than 6 months.	code day and month as unknown.

9 A. date is known within some years

code day and month as unknown and take the most probable year or the middle year of the period

B. date is wholly unknown

code day, month and year as unknown

11 date unreliable because the bird has been dead for a very long time: e.g. skeleton found, mummified remains, found in spring after winter snow thaws. *This overpunch prevails over punches 0 - 9.*

CO-ORDINATES (columns 29-34 and 44-49)

1. The geographical co-ordinates of place of ringing or place of recovery must be given as the usual Greenwich co-ordinates.
2. They are not given in degrees and minutes but in degrees and tenths of degrees. This saves four columns and is easy for certain calculations. (e.g. mean co-ordinates).
3. Southern latitude is indicated by crossing out inset square in squares 29 or 44 (overpunch 1), northern latitude by not doing this.
4. Western longitude is indicated by crossing out inset square in squares 32 or 47 (overpunch 1), eastern longitude by not doing this.
5. Longitudes of more than 100° are indicated by crossing out inset square in squares 33 or 48 (overpunch 1).
6. Conversion table for minutes into 1/10 degrees:

0' -2'	=	0.0°
3' -8'	=	0.1°
9' -14'	=	0.2°
15' -20'	=	0.3°
21' -26'	=	0.4°
27' -32'	=	0.5°
33' -38'	=	0.6°
39' -44'	=	0.7°
45' -50'	=	0.8°
51' -56'	=	0.9°
57' -59'	=	1.0°
7. Sometimes the exact co-ordinates are unknown. When those of the nearest town are given this is considered sufficiently exact. When only a larger area is known, the co-ordinates must be guessed, e.g. by taking them from the centre of the area in question. In such cases the inaccuracy should be indicated by crossing out the inset square of columns 25 or 40. (see p.11).
8. When co-ordinates are wholly unknown, code with 12, not with 0.

9. Examples:

51°02' N. 06°18' E. is coded	510	063
10°35' S. 17°58' W. is coded	<u>11</u> 106	<u>11</u> 180
08°36' N. 120°00' W. is coded	086	<u>11</u> <u>11</u> 2 0 0

FINDING DETAILS (columns 50-52)

The circumstances in which birds are recovered vary greatly and it is impossible to list them all. They involve very different kinds of information.

Column 50 is used for the condition of the bird when it was found or the outcome of the act of finding. This column permits a quick distinction between those birds which are set free after being recovered and those which are killed, die or in some way or other no longer contribute to the natural population.

Column 51 gives the way the bird was obtained and the cause of its death in 9 primary divisions. This column permits a quick distinction between accidental and intentional recoveries, the difference being that in the latter case man has deliberately used a special means to get hold of a bird, in the former case he has not.

In *Column 52* the 9 primary divisions of column 51 are further subdivided to permit more detailed analysis.

The *overpunches* of these columns are used to indicate if the ring was changed, added or removed, if the bird has been previously recovered, if it was a breeding bird, whether the cause of death, etc. was definitely known by the finder or only presumed, and whether it was recovered at a place of special interest (sea coast, colony, roost).

Overpunches of columns 50, 51 and 52

The overpunches 11 and 12 can be used in combination with the other punches and must be indicated by crossing out the appropriate inset square.

Column 50, punch <u>11</u> :	ring changed or added (to be used only when the bird is released again).
Column 50, punch <u>12</u> :	found on the sea coast (tideline, beach).
Column 51, punch <u>11</u> :	recovered one or more times before (excluding retraps at ringing place).
Column 51, punch <u>12</u> :	cause of death or injury only <i>presumed</i> by the finder, not known to be the case.
Column 52, punch <u>11</u> :	breeding bird (found with nest or feeding small young).
Column 52, punch <u>12</u> :	found at colony.
Column 52, punches <u>11</u> + <u>12</u> :	found at roost.

Condition when found, or outcome (column 50)

- 0 condition unknown
- 1 dead, unknown if fresh or not
- 2 freshly dead or dying; death occurred on or about the day the bird was recovered; e.g. found freshly dead, found dying, died shortly afterwards, mortally injured (broken wing, etc), killed after being caught or shot.
- 3 decaying, dead for some time: when dead for a very long time, e.g. skeleton found, mummified remains, found in spring after winter snow thaws - code as 3 but indicate Accuracy of Finding Date as 11 (square 40).
- 4 exhausted, wounded (not mortally, or unknown how seriously), sick.
- 5 alive and released
- 6 alive and released by a ringer
- 7 alive and released at ringing place by the ringer (retrap*)
- 8 alive and not released, being held in captivity
- 9 alive, unknown if released.

* retraps should not be sent to EURING

How obtained, cause of death or injury (columns 51, 52)

I PRIMARY DIVISION (column 51)

- 0 UNKNOWN: no details at all
- 1 SHOT: shot or found shot
- 2 TAKEN INTENTIONALLY: taken in healthy condition intentionally (with special means) by man, but not shot; or taken in healthy condition but *unknown if accidental or intentional*; or *observed only*
- 3 TAKEN ACCIDENTALLY: taken accidentally in buildings; found entangled in something; caught with means intended for other animals etc.
- 4 "FOUND": just stated to be "found"; cause of death, capture or injury unknown
- 5 ANIMALS: caught and/or eaten by animals
- 6 COLLIDED: collided with traffic or immobile obstacles (or presumably collided, e.g. found on road)
- 7 WEATHER: victim or probable victim of weather
- 8 OTHER CAUSES of death or injury (*not intentional*)

II SECONDARY DIVISION (column 52, together with 51)

- 00 UNKNOWN
 - 1 SHOT
 - 10 shot
 - 11 found shot
 - 12 shot to protect fruit (e.g. shot in cherry orchard)
 - 2 TAKEN INTENTIONALLY or unknown, observed only
 - 20 method of capture unknown; unknown if intentional or accidental, e.g. "caught on ship"
 - 21 idem, but most probably taken intentionally by man, e.g. "capturé" in France, "capturado" in Spain, "catturato" in Italy (these indications often concern shot birds)
 - 22 trapped, netted, snared, caught with bird lime etc.
 - 23 caught in duck decoy
 - 24 poisoned intentionally (compare 82)
 - 25 body for sale in poulterer's shop
 - 26 found as caged bird, pinioned, or otherwise in captivity
 - 27 caught or killed because it was ringed
 - 28 observed only, ring number read in the field, identified by colour ring, etc.
 - 3 TAKEN ACCIDENTALLY, enclosed, entangled
 - 30 in trap set to catch other terrestrial animals or other species of birds
 - 31 in net or trap or on line or hook set to catch fish
 - 32 in nets or cages used to protect growing crops
 - 33 by any active agricultural operation, e.g. trapped by soil during ploughing, by mowing machine etc.
 - 34 as a result of any industrial, commercial or military operation, e.g. blasting at a quarry, caught in machinery
 - 35 sucked into pipes, etc. at pumping station, reservoir, dam etc.
 - 36 on entering building, glasshouse, chimney or other man-made structure, or in cave, hole etc.
 - 37 by entering aviary, pigeon loft, or by joining domestic or ornamental birds
 - 38 caught in any natural hazard, e.g. tangled in sheep's wool, caught in thorns, etc.
 - 39 entangled by the ring
 - 4 "FOUND"
 - 40 "found", no details indicating cause of death, capture or injury
 - 41 only ring, or ring and leg, found in circumstances where the bird could have ended its

natural life, or in circumstances indicating a reliable guide to the cause of death.
(When found in pellet of an owl or bird of prey, code under primary division 5)

5 ANIMALS

- 50 caught by unknown animal
- 51 caught by cat
- 52 caught by dog
- 53 caught by domestic animal other than cat or dog
- 54 caught by wild mammal, e.g. fox, mink
- 55 caught by bird of prey (Falconiformes)
- 56 caught by owl (Strigidae)
- 57 caught by crow (Corvidae)
- 58 caught by any other species of bird
- 59 caught by fish or reptile

NB when the ring is found in a pellet, indicate inaccuracy of date by an 11 in square 40, unless the pellet is fresh.

6 COLLIDED

- 60 hit by, or found wedged in, road vehicle*
- 60 (with overpunch "presumed") found on road
- 61 hit by, or found wedged in, railway engine*
- 61 (with overpunch "presumed") found on railway
- 62 hit by, or found wedged in, aircraft*
- 62 (with overpunch "presumed") found in airfield
- 63 collided with, or landed on, ship (not lightship)*
- 64 collided with, or landed on, lightship
- 65 collided with lighthouse
- 66 collided with window, glasshouse, etc. (if hit window when trying to escape from room, code 36)
- 67 collided with tower, pylon, mast or beacon
- 68 hit overhead wires
- 69 collided with other immobile obstacles

*NB when the body is found wedged in the structure of a vehicle the accident could have occurred anywhere along the route. In such cases the inaccuracy of place should be indicated by using overpunch 12 (inset square) in square 40.

7 WEATHER victim

- 70 victim of "cold weather"
- 71 victim of snow
- 72 trapped in ice
- 73 victim of heat
- 74 victim of fog
- 75 victim of gales
- 76 victim of heavy rain, hail, thunderstorm
- 77 victim of high tides, floods, etc.

B OTHER CAUSES of death of injury (not intentional)

- 80 oiled
- 81 drowned, in water or any other liquid

- 82 victim of poison intended to kill other animals or other species of birds (compare 24)
- 83 victim of agricultural chemicals, e.g. chlorinated hydrocarbons

EXAMPLES OF CODED FINDING DETAILS

- 221 killed by man, method unknown
- 210 shot
- 022 caught, method and fate unknown
- 222 trapped and killed
- 522 trapped and released
- 223 trapped in duck decoy and killed
- 622 caught and released by a ringer
- 036 caught on entering a building, fate unknown
- 528 observed only - ring number read in field
- 251 killed by cat
- 26120 found on road, freshly dead
- 566 hit window, recovered and released
- 040 found (unknown if alive or dead)
- 140 found dead
- 100 reported just as "dead", unknown if found dead or killed.
- 900 reported just as "still alive"; unknown if released or held in captivity
- 041 ring only found, in the field

ELAPSED TIME* (columns 53 - 56)

Unit: 0.01 year (about half a week)

Calculation: calculate the number of days and multiply this number by 0.274

Example: ringing date 1 January 1964

recovery date 23 March 1965

Elapsed time: one year + 31 + 29 + 23 days

= one year and 83 days

= $100 + 83 \times 0.274$ hundredths of a year

= 122.7 hundredths of a year

Code number: 0123

Remark: a decimal system is necessary for making calculations; a unit derived from the year is to be preferred to that from day, week or month since the year is the most important item for age and mortality calculations. See also remarks below.

DISTANCE* (columns 57 - 59)

Unit: 10km.

Examples: code number 000 means 0-10km.

code number 001 means 11-20km.

etc.

Calculation: when, at shorter distances, the actual distance is measured on a map, this is to be indicated by overpunch 12 of square 57 (right hand inset square). See remarks below.

DIRECTION* (columns 60 - 62)

Unit: 1 degree

Numbering: the 360 units are numbered clockwise, 000(=360) pointing to the true North.

Calculation: when, at shorter distances, the actual direction is measured on a map, this is to be indicated by overpunch 12 of square 60 (right hand inset square). See remarks below.

SPEED* (columns 63 - 64)

Unit: 10km, per 0.01 year.

Remark: It is no use calculating speeds when the elapsed time is of the order of one year or more, since, during this time, the bird has been in the winter or breeding area: therefore speeds need be calculated only when the elapsed time is less than 0.5 year (code number 0050)

* Important remarks

1. Elapsed time, distance, direction and speed will in general be calculated at EURING by means of a computer. Distance and direction are derived from the co-ordinates of ringing place and finding place, which are already punched on the punch card. These co-ordinates are accurate to 1/10 of a degree, representing a grid of about 11 x 7 km. (The latter value, 1/10 degree of longitude, differs at different latitudes.) Distances and directions are calculated as if the places of ringing and finding are each in the middle of such an area of 11 x 7 km. This gives large errors at short distances. To avoid this, a centre may enter its own, accurate, measurements in the appropriate squares, and indicate this by an overpunch 12 in squares 57 and 60.
2. If a centre's own measurements have not been entered, but the calculated values from EURING are not wanted, enter 11 in all appropriate squares.

SPARE COLUMNS (columns 65 - 80)

These spare columns are intended for special studies; e.g. finer geographical divisions, weights and measurements of birds, complicated calculations etc. Columns 65-72 are intended for international use, columns 73-80 for national use. Please consult EURING when you want to use spare columns.

PLACE OF RINGING / FINDING (columns 26-28 and 41-43)

1. In addition to sorting by co-ordinates, provision is made for analysis by administrative units. This method offers the following advantages:
 - a. the boundaries of states and their subdivisions are often more natural than the co-ordinate-grid (e.g. coast lines)
 - b. since each unit bears one number, sorting is quicker than with 6-figure co-ordinates.
 - c. for correlations with human factors (population density, shooting pressure) this division is indispensable, since data about these factors are always given per administrative unit.
2. The boundaries are defined according to the TIMES ATLAS OF THE WORLD, Mid-Century Edition, Editor John Bartholomew, London. Germany, White Russia and the Ukraine, however, are subdivided into units not shown in the Times Atlas (see pp. 36 and 38).
3. Three columns being available, the following hierarchic division is possible.
 - a. *primary division* of the world in 12 parts (first column: nos. 26 and 41, including overpunches). Oceans and seas are taken together in one of these.
 - b. *secondary division* of each of these parts in 10 parts (2nd column: nos. 27 and 42).
 - c. *tertiary division* of the 120 parts into 1200 basic units (3rd column: nos. 28 and 43). This makes it possible to divide the area concerned in smaller or greater parts according to the need.
4. Each larger area bears a number that can be used if the place cannot be located in one of the smaller units of the area in question. In such cases an overpunch 11 or 12 is used in the 2nd or 3rd column. This general number is placed before the name of each area in the tertiary division list.
5. The administrative units into which a country is divided are specified under each respective heading. Islands are often treated as separate units.
6. A code number after the name indicates that the area in question is a part of another larger division, that the name has already been mentioned under another heading, or that the name is a synonym.

PRIMARY DIVISION (columns 26 and 41)

See map opposite

- 0 *British Isles: Great Britain, Ireland*
- 1 *France & Switzerland*
- 2 *Iberia: Spain, Portugal*
- 3 *Mediterranean: Italy, Yugoslavia, Albania, Greece, Near East*
- 4 *Fennoscandia: Denmark, Norway, Sweden, Finland*
- 5 *Central Europe Northwest: Benelux, Germany, Poland*
- 6 *Central Europe Southeast: Austria, Czechoslovakia, Hungary, Romania, Bulgaria*
- 7 *U.S.S.R. European part*
- 8 *Asia (excl. Near East), Australia*
- 9 *Africa*
- 11 *Americas and Polar Regions*
- 12 *At sea*

ALPHABETICAL LIST OF COUNTRIES OF EUROPE, AFRICA AND NEAR EAST

(when page number is given, the area is further subdivided)

	Abyssinia p.45		Kenya p.45	929 Togo
370	Albania	393	Lebanon	376 Triest
	Algeria p.44	914	Liberia	905 Tunisia
223	Andorra		Libya p.45	Turkey p.32
	Angola p.44	607	Liechtenstein	921 Ubangi Charl
	Austria p.37	259	Luxembourg	Uganda p.45
940	Basutoland	950	Madagascar	984 United Arab Republic
941	Bechuanaland	993	Madeira	912 Upper Volta
	Belgium p.35	956	Malawi	U.S.S.R.Asialtic part,p.40
941	Botswana	915	Mali	U.S.S.R.European part p.38
	Bulgaria p.37	364	Malta	Zambia p.45
968	Burundi	916	Mauritania	969 Zanzibar
922	Cabinda	180	Monaco	
920	Cameroons, Cameroun	904	Morocco	
991	Canary Islands		Mozambique p.45	
992	Cape Verde Islands		Netherlands p.35	
921	Central African Rep.	925	Niger	
928	Chad	926	Nigeria	
922	Congo (Brazzaville)		Northern Rhodesia p.45	
	Congo (Leopoldv.)p.44		Norway p.33	
	Czechoslovakia p.37	956	Nyasaland	
923	Dahomey	921	Oubangi-Charl	
	Denmark p.33		Poland p.36	
984	Egypt		Portugal p.29	
970	Eritrea	917	Rio de Oro	
	Ethiopia p.45	927	Rio Muni	
<u>11 0 11</u>	Faeroe Islands		Romania p.37	
	Finland p.34	968	Ruanda Urundi	
	France p.27		Rumania p.37	
924	Gabon	968	Rwanda	
918	Gambia	333	San Marino	
	Germany p.35	918	Sénégal	
910	Ghana	919	Sierra Leone	
260	Gibraltar		Somalia p.45	
910	Gold Coast	976	Somaliland (French)	
	Great Britain p.25		South Africa p.44	
	Greece p.32	957	Southern Rhodesia	
<u>11 2 11</u>	Greenland	942	South West Africa	
911	Guinea (Fr. and Port.)		Spain p.29	
927	Guinea (Span.)	917	Spanish Sahara	
912	Haute Volta	917	Spanish West Africa	
	Holland p.35	<u>11 3 11</u>	Spltsbergen	
	Hungary p.37		Sudan p.45	
<u>11 1 11</u>	Iceland	915	Soudan (French)	
904	Ifni	943	Swaziland	
	Ireland p.25		Sweden p.33	
391	Israel		Switzerland p.27	
	Italy p.31		Tanganyika p.45	
913	Ivory Coast	904	Tangler	
392	Jordan		Tanzania p.45	
	Jugoslavia p.31	928	Tchad	



PRIMARY DIVISION

SECONDARY DIVISION (columns 26,27 and 41,42)

0 *British Isles* (map facing p.25)

- 00 Ireland
- 01 England, south-west
(Channel Islands with France)
- 02 England, south-east
- 03 England, east
- 04 England, central
- 05 England, north
- 06 Wales
- 07 Scotland, south
- 08 Scotland, middle
- 09 Scotland, north

3 *Mediterranean* (map facing p.31)

- 30 Italy, Alpine area
- 31 Italy, Po area
- 32 Italy, north Tyrrhenian
- 33 Italy, north Adriatic
- 34 Italy, south Tyrrhenian
- 35 Italy, south Adriatic
- 36 Islands near Italy
- 37 Yugoslavia, Albania
- 38 Greece,
- 39 Near East.

1 *France and Switzerland* (map facing p.27)

- 10 France, north-west
(incl. Channel Islands)
- 11 France, north-east
- 12 France, central north
- 13 France, Atlantic coast
- 14 France, central west
- 15 France, central east
- 16 France, east
- 17 France, central south
- 18 France, Mediterranean
(Corsica with Italy)
- 19 Switzerland

4 *Fennoscandia*

- 40 Denmark (excl. Bornholm)
- 41 Bornholm
- 42, 43 Norway
- 44-46 Sweden (excl. Gotland, Öland)
- 47 Gotland, Öland
- 48 Finland (excl. Åland)
- 49 Åland

2 *Iberia* (map facing p.29)

- 20 Spain, Atlantic coast
- 21 Spain, central north-west
- 22 Spain, central north-east
(incl. Andorra)
- 23 Spain, north-east coast
- 24 Spain, south-east coast
- 25 Spain, central south
- 26 Spain, south
- 27 Spain, Balears
- 28 Portugal, north
- 29 Portugal, south

5 *Central Europe, North-West*

- 50, 51 Netherlands
- 52 Belgium & Luxembourg
- 53 Germany: Schleswig-Holstein, Niedersachsen, Bremen, Hamburg
- 54 Germany: Nordrhein-Westfalen, Hessen, Rheinland-Pfalz, Saarland
- 55 Germany: Baden-Württemberg, Bayern
- 56 Germany: Mecklenburg, Brandenburg
- 57 Germany: Sachsen, Thüringen, Sachsen-Anhalt
- 58 Poland, north-west
- 59 Poland, south-east

6 *Central Europe, South-East*

- 60 Austria
- 61 Czechoslovakia, west
- 62 Czechoslovakia, east
- 63 Hungary, west
- 64 Hungary, east
- 65 Romania, north-west
- 66 Romania, south-east
- 67, 68 Bulgaria

9 *Africa (map facing p.44)*

- 90 Africa, north-west (excl. islands)
- 91 Africa, west
- 92 Central Africa
- 93 Congo (Leopoldville) and Angola
- 94 Republic of South Africa
- 95 Southern Rhodesia, Zambia, Malawi, Mozambique, Madagascar
- 96 Kenya, Tanzania, Uganda etc.
- 97 Ethiopia, Somalia
- 98 Sudan, Egypt, Libya
- 99 North-west archipelagos

7 *U.S.S.R., European part (map facing p.38)*

- 70 Baltic area
- 71 North Russia
- 72 White Russia (incl. Bryansk and Kaluga)
- 73 Central Russia
- 74 Russia, west of Urals
- 75-77 Ukraine and Moldavia
- 78 Don and middle Volga
- 79 Lower Volga and Caucasus

11 *America and Polar Regions*

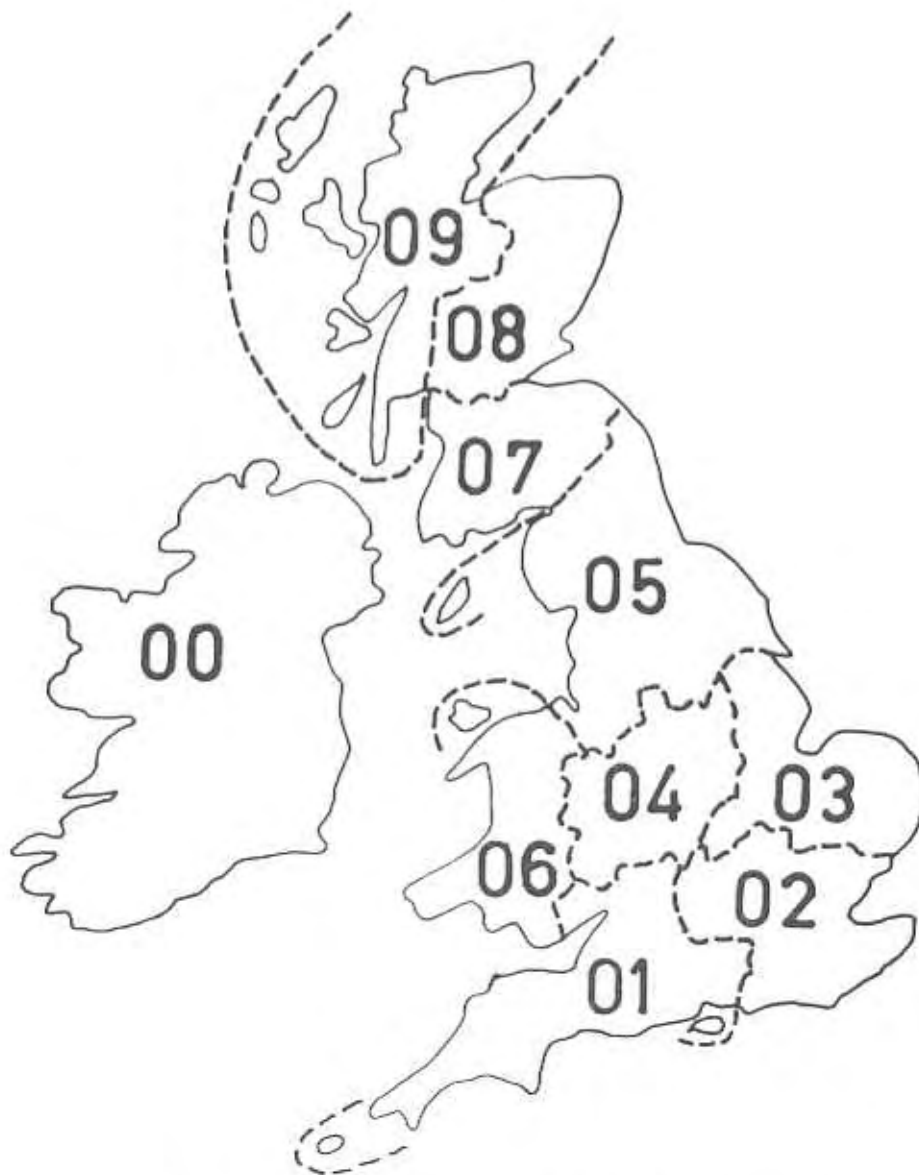
- 11 0 Faeroe Islands
- 11 1 Iceland
- 11 2 Greenland
- 11 3 Spitsbergen, Jan Mayen, Bear Island
- 11 4 Canada and Alaska
- 11 5 U.S.A., excl. Alaska
- 11 6 Carribean
- 11 7 Mexico and Central America
- 11 8 South America
- 11 9 Antarctica

8 *Asia, Australia (map U.S.S.R. facing p.38)*

- 80, 81 U.S.S.R.: Kazakhstan and Altai
- 82 U.S.S.R.: Siberia, west
- 83 U.S.S.R.: Siberia, central
- 84 U.S.S.R.: Siberia, east
- 85 U.S.S.R.: Asia, central
- 86, 87 Asia, south-west (Near East excl.)
- 88 China, Japan, Philippines
- 89 Further India, Indonesia, Australasia

12 *At sea*

- 12 0 Arctic Ocean
- 12 1 Atlantic Ocean: North Sea
- 12 2 Atlantic Ocean: English Channel and Irish Sea
- 12 3 Atlantic Ocean: Bay of Biscay
- 12 4 Atlantic Ocean: remaining parts
- 12 5 Baltic Sea
- 12 6 Mediterranean Sea
- 12 7 Black Sea and Casplan Sea
- 12 8 Indian Ocean
- 12 9 Pacific Ocean



SECONDARY DIVISION: BRITISH ISLES

TERTIARY DIVISION

0 11 11 BRITISH ISLES

(counties or groups of counties; separate units: Fair Isle, Outer Hebrides, Scilly Isles; alphabetical list on p. 26)

00 11 *Ireland*

- 000 Ulster, east (Antrim, Armagh, Down)
- 001 Ulster, west (Donegal, Londonderry, Tyrone)
- 002 Ulster, south (Cavan, Fermanagh, Monaghan)
- 003 Connaught, east (Leltrim, Roscommon)
- 004 Connaught, west (Galway, Mayo, Sligo)
- 005 Leinster, east (Dublin, Kildare, Louth, Meath, Wicklow)
- 006 Leinster, west (Longford, Offaly, Westmeath)
- 007 Leinster, south (Carlow, Kilkenny, Leix, Wexford)
- 008 Munster, north (Clare, Limerick, Tipperary)
- 009 Munster, south (Cork, Kerry, Waterford)

01 11 *England, south-west*

- 010 Cornwall
- 011 Devon
- 012 Dorset
- 013 Gloucester
- 014 Hampshire
- 015 Monmouth
- 016 Scilly Isles
- 017 Somerset
- 018 Isle of Wight
- 019 Wiltshire

02 11 *England, south-east*

- 020 Bedford
- 021 Berkshire
- 022 Buckingham
- 023 Essex
- 024 Hertford
- 025 Kent
- 026 Middlesex and London
- 027 Oxford
- 028 Surrey
- 029 Sussex

03 11 *England, east*

- 030 Cambridge
- 031 Huntingdon
- 032 Lincoln
- 033 Norfolk
- 034 Northampton
- 035 Rutland
- 036 Suffolk

04 11 *England, central*

- 040 Derby
- 041 Hereford
- 042 Leicester
- 043 Nottingham
- 044 Shropshire
- 045 Stafford
- 046 Warwick
- 047 Worcester

05 11 *England, north*

- 050 Cheshire
- 051 Cumberland
- 052 Durham
- 053 Isle of Man
- 054 Lancashire, north
(the separate part)
- 055 Lancashire, south
- 056 Northumberland
- 057 Westmorland
- 058 York, East and North
Riding, York City
- 059 York, West Riding

06 11 *Wales*

- 060 Anglesey
- 061 Brecon and Radnor
- 062 Caernarvon
- 063 Cardigan
- 064 Carmarthen
- 065 Denbigh and Flint
- 066 Glamorgan
- 067 Merioneth
- 068 Montgomery
- 069 Pembroke

07 11 *Scotland, south*

- 070 Ayr
- 071 Berwick
- 072 Dumfries
- 073 Kirkcudbright
- 074 Lanark
- 075 Lothians, West-, Mid-,
and East-
- 076 Peebles and Selkirk
- 077 Renfrew
- 078 Roxburgh
- 079 Wigtown

08 11 *Scotland, middle*

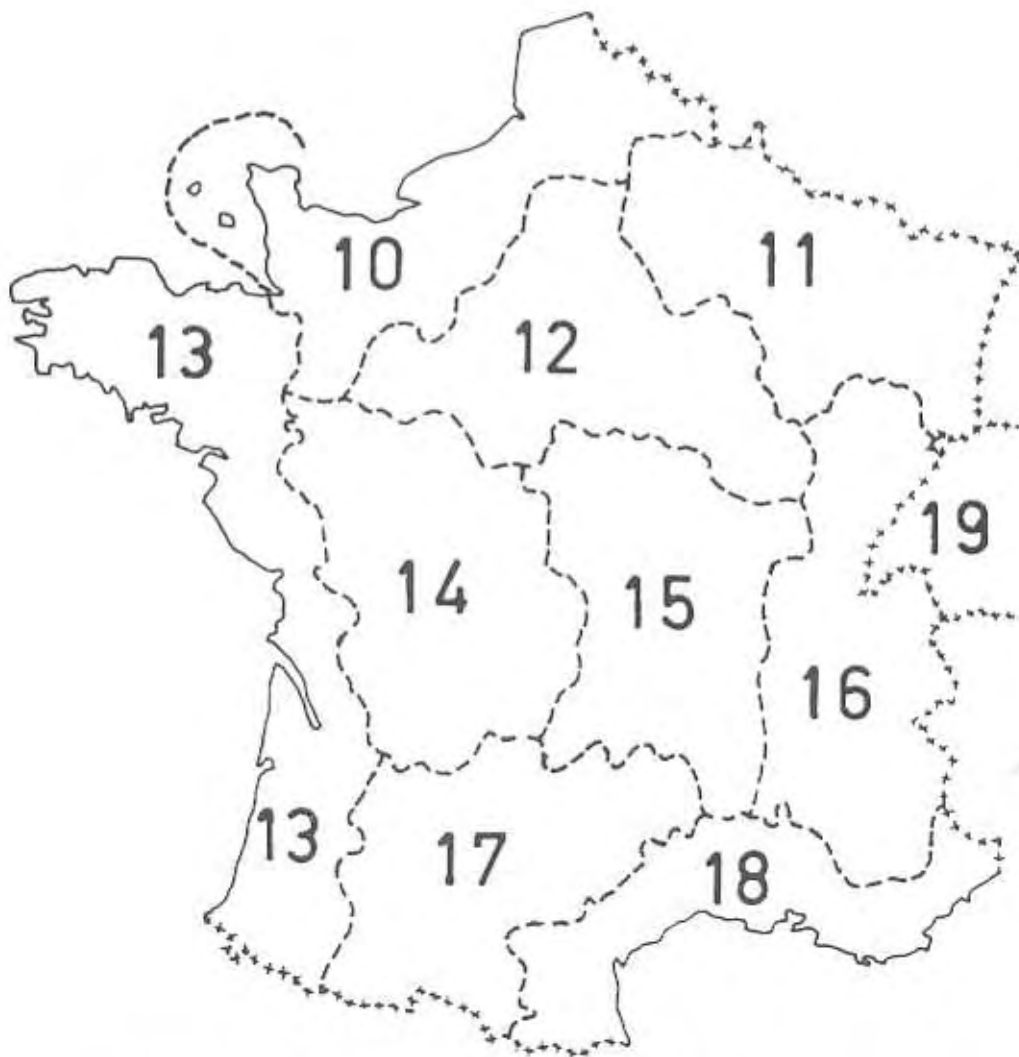
- 080 Aberdeen
- 081 Angus
- 082 Banff
- 083 Clackmannan and Kinross
- 084 Dunbarton
- 085 Fife
- 086 Kincardine
- 087 Moray and Nairn
- 088 Perth
- 089 Stirling

09 11 *Scotland, north (Incl. Orkney and Shetland)*

- 090 Argyll
- 091 Bute
- 092 Caithness
- 093 Fair Isle
- 094 Inverness (excl. Outer
Hebrides)
- 095 Orkney
- 096 Outer Hebrides
- 097 Ross and Cromarty (excl.
Outer Hebrides)
- 098 Shetland
- 099 Sutherland

ALPHABETICAL LIST OF COUNTIES IN BRITISH ISLES

080	Aberdeen	066	Glamorgan	095	Orkney
060	Anglesey	013	Glos, Gloucester	096	Outer Hebrides
081	Angus	014	Hants, Hampshire	027	Oxford, Oxon
000	Antrim	041	Hereford	076	Peebles
090	Argyll	024	Hertford	069	Pembroke
000	Armagh	031	Huntingdon	088	Perth
070	Ayr	094	Inverness	034	Peterborough, Soke of
082	Banff		(Outer Hebrides apart)	061	Radnor
020	Bedford	030	Isle of Ely	077	Renfrew
021	Berkshire	053	Isle of Man	003	Roscommon
071	Berwick	018	Isle of Wight	097	Ross & Cromarty (Outer Hebrides apart)
061	Brecknock	025	Kent	078	Roxburgh
061	Brecon	009	Kerry	035	Rutland
022	Buckingham	005	Kildare	044	Salop
091	Bute	007	Kilkenny	016	Scilly Isles
062	Caernarvon	086	Kincardine	076	Selkirk
092	Caithness	083	Kinross	098	Shetland (Fair Isle apart)
030	Cambridge	073	Kirkcudbright	044	Shropshire
063	Cardigan	054	Lancashire North	004	Silgo
007	Carlow	055	Lancashire South	034	Soke of Peterborough
064	Carmarthen	074	Lanark	017	Somerset
002	Cavan	007	Laoghais, Laois	014	Southampton
100	Channel Islands	042	Leicester	045	Stafford
050	Cheshire	003	Leltrim	089	Stirling
083	Clackmannan	007	Leix	036	Suffolk
008	Clare	032	Lincoln	028	Surrey
010	Cornwall (Scilly Isles apart)	008	Limerick	029	Sussex
009	Cork	026	London	099	Sutherland
051	Cumberland	001	Londonderry	008	Tipperary
065	Denbigh	006	Longford	001	Tyrone
040	Derby	075	Lothian, West-, Mid-, and East-	006	Ui Fallghe
011	Devon	005	Louth	046	Warwick
001	Donegal	053	Man, Isle of	009	Waterford
012	Dorset	004	Mayo	075	West Lothian
000	Down	005	Meath	006	Westmeath
005	Dublin	067	Merioneth	057	Westmorland
072	Dumfries	026	Middlesex	007	Wexford
084	Dunbarton	075	Midlothian	005	Wicklow
052	Durham	002	Monaghan	018	Wight, Isle of
075	East Lothian	015	Monmouth	079	Wigtown
030	Ely, Isle of	068	Montgomery	019	Wiltshire
023	Essex	087	Moray	047	Worcester
093	Fair Isle	087	Nairn	058	York: City, East and North Riding
002	Fermanagh	033	Norfolk	059	York, West Riding
085	Fife	034	Northampton	098	Zetland
065	Filint	056	Northumberland		
081	Forfar	043	Nottingham		
004	Galway	006	Offaly		



SECONDARY DIVISION: FRANCE & SWITZERLAND

I. FRANCE AND SWITZERLAND

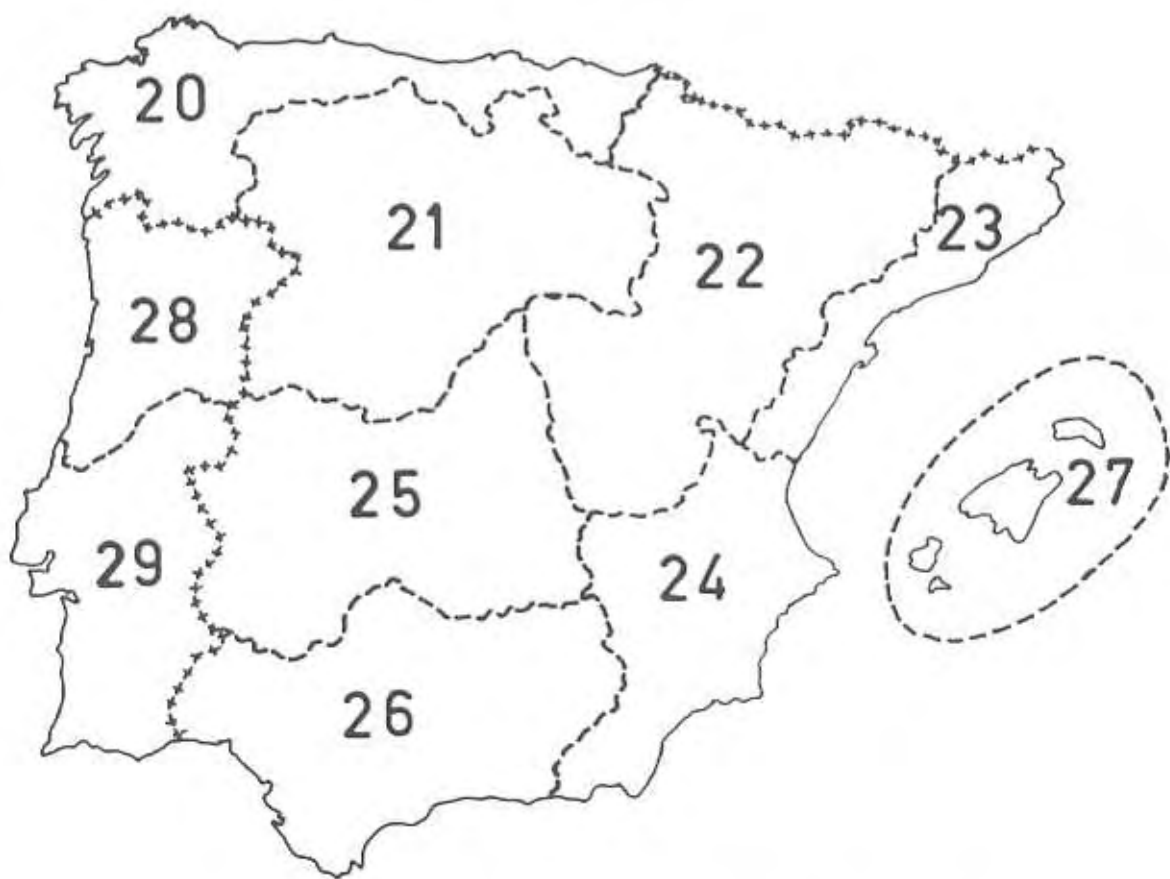
I || || France and Channel Islands

(departments; alphabetical list on p. 28)

- | | | |
|--|--|--|
| <p>10 <i>France, north-west</i></p> <p>100 Channel Islands</p> <p>101 Calvados</p> <p>102 Eure</p> <p>103 Manche</p> <p>104 Mayenne</p> <p>105 Nord</p> <p>106 Orne</p> <p>107 Pas-de-Calais</p> <p>108 Seine-Maritime</p> <p>109 Somme</p> | <p>13 <i>France, Atlantic coast</i></p> <p>130 Basses-Pyrénées</p> <p>131 Charente-Maritime</p> <p>132 Côtes-du-Nord</p> <p>133 Finistère</p> <p>134 Gironde</p> <p>135 Ille-et-Vilaine</p> <p>136 Landes</p> <p>137 Loire-Atlantique</p> <p>138 Morbihan</p> <p>139 Vendée</p> | <p>16 <i>France, east</i></p> <p>160 Ain</p> <p>161 Basses-Alpes</p> <p>162 Doubs</p> <p>163 Drôme</p> <p>164 Hautes-Alpes</p> <p>165 Haute-Saône</p> <p>166 Haute-Savoie</p> <p>167 Isère</p> <p>168 Jura</p> <p>169 Savoie</p> |
| <p>11 <i>France, north-east</i></p> <p>110 Aisne</p> <p>111 Ardennes</p> <p>112 Bas-Rhin</p> <p>113 Haute-Marne</p> <p>114 Haut-Rhin and Belfort</p> <p>115 Marne</p> <p>116 Meurthe-et-Moselle</p> <p>117 Meuse</p> <p>118 Moselle</p> <p>119 Vosges</p> | <p>14 <i>France, central west</i></p> <p>140 Charente</p> <p>141 Corrèze</p> <p>142 Creuse</p> <p>143 Deux-Sevres</p> <p>144 Dordogne</p> <p>145 Haute-Vienne</p> <p>146 Indre</p> <p>147 Indre-et-Loire</p> <p>148 Maine-et-Loire</p> <p>149 Vienne</p> | <p>17 <i>France, central south</i></p> <p>170 Ariège</p> <p>171 Aveyron</p> <p>172 Gers</p> <p>173 Haute-Garonne</p> <p>174 Hautes-Pyrénées</p> <p>175 Lot</p> <p>176 Lot-et-Garonne</p> <p>177 Lozère</p> <p>178 Tarn</p> <p>179 Tarn-et-Garonne</p> |
| <p>12 <i>France, central north</i></p> <p>120 Aube</p> <p>121 Côte d'Or</p> <p>122 Eure-et-Loire</p> <p>123 Loir-et-Cher</p> <p>124 Loiret</p> <p>125 Oise</p> <p>126 Sarthe</p> <p>127 Seine-et-Marne</p> <p>128 Seine-et-Oise & Seine</p> <p>129 Yonne</p> | <p>15 <i>France, central east</i></p> <p>150 Allier</p> <p>151 Ardèche</p> <p>152 Cantal</p> <p>153 Cher</p> <p>154 Haute-Loire</p> <p>155 Loire</p> <p>156 Nièvre</p> <p>157 Puy-de-Dôme</p> <p>158 Rhône</p> <p>159 Saône-et-Loire</p> | <p>18 <i>France, Mediterranean</i></p> <p>180 Alpes-Maritimes (Incl. Monaco)</p> <p>181 Aude</p> <p>182 Bouches-du-Rhône</p> <p>Corse 360</p> <p>183 Gard</p> <p>184 Hérault</p> <p>185 Pyrénées-Orientales</p> <p>186 Var</p> <p>187 Vaucluse</p> |
| <p>19 <i>Switzerland (cantons or groups of cantons)</i></p> | | |
| <p>190 Aargau, Luzern</p> <p>191 Appenzell, St. Gallen, Thurgau</p> <p>192 Basel, Solothurn</p> <p>193 Bern</p> <p>194 Fribourg (Freiburg), Genève, Neuchâtel, Vaud</p> <p>Genève (Genf) 194</p> <p>195 Glarus, Schwyz, Unterwalden, Uri, Zug 199</p> <p>196 Graubünden (Grisons)</p> <p>Luzern 190</p> <p>Neuchâtel (Neuenburg) 194</p> <p>St. Gallen 191</p> | <p>197 Schaffhausen, Zürich</p> <p>Solothurn 192</p> <p>Schwyz 195</p> <p>198 Tessin (Ticino)</p> <p>Thurgau 191</p> <p>Unterwalden (Nid & Obwalden) 195</p> <p>Uri 195</p> <p>Valais (Wallis)</p> <p>Vaud (Waadt) 194</p> <p>Zug 195</p> <p>Zürich 197</p> | |

ALPHABETICAL LIST OF DEPARTMENTS OF FRANCE

160	Ain	123	Loire-et-Cher
110	Alsne	155	Loire
150	Allier	137	Loire-Atlantique
161	Alpes, Basses-	154	Loire, Haute-
164	Alpes, Hautes-	137	Loire-Inférieure
180	Alpes-Maritimes	137	Loire-Maritime
151	Ardèche	124	Loiret
111	Ardennes	175	Lot
170	Ariège	176	Lot-et-Garonne
120	Aube	177	Lozère
181	Aude	148	Maine-et-Loire
171	Aveyron	103	Manche
161	Basses-Alpes	115	Marne
130	Basses-Pyrénées	113	Marne, Haute-
112	Bas-Rhin	104	Mayenne
114	Belfort	116	Meurthe-et-Moselle
182	Bouches-du-Rhône	117	Meuse
101	Calvados	138	Morbihan
152	Cantal	118	Moselle
140	Charente	156	Nièvre
131	Charente-Maritime	105	Nord
131	Charente-Inférieure	125	Oise
153	Cher	106	Orne
141	Corrèze	128	Paris
360	Corse (Corsica)	107	Pas-de-Calais
121	Côte d'Or	157	Puy-de-Dôme
132	Côtes-du-Nord	130	Pyrénées, Basses-
142	Creuse	174	Pyrénées, Hautes-
143	Deux-Sèvres	185	Pyrénées-Orientales
144	Dordogne	112	Rhin, Bas-
162	Doubs	114	Rhin, Haut-
163	Drôme	158	Rhône
102	Eure	165	Saône, Haute-
122	Eure-et-Loire	159	Saône-et-Loire
133	Finistère	126	Sarthe
183	Gard	169	Savoie
173	Garonne, Haute-	166	Savoie, Haute-
172	Gers	128	Seine
134	Gironde	127	Seine-et-Marne
164	Hautes-Alpes	128	Seine-et-Oise
173	Haute-Garonne	108	Seine-Inférieure
154	Haute-Loire	108	Seine-Maritime
113	Haute-Marne	143	Sèvres, Deux-
174	Hautes-Pyrénées	109	Somme
114	Haut-Rhin	178	Tarn
165	Haute-Saône	179	Tarn-et-Garonne
166	Haute-Savoie	186	Var
145	Haute-Vienne	187	Vaucluse
184	Hérault	139	Vendée
135	Ille-et-Vilaine	149	Vienne
146	Indre	145	Vienne, Haute-
147	Indre-et-Loire	119	Vosges
167	Isère	129	Yonne
168	Jura		
136	Landes		



SECONDARY DIVISION: SPAIN & PORTUGAL

2. IBERIA

2 11 11 Spain (Andorra and Gibraltar included) (provinces; alphabetical list on page 30)

20 11 *Atlantic coast*

- 200 Alava
- 201 Coruña
- 202 Guipúzcoa
- 203 Lugo
- 204 Orense
- 205 Oviedo
- 206 Pontevedra
- 207 Santander
- 208 Vizcaya

21 11 *Central, north-west*

- 210 Avila
- 211 Burgos
- 212 León
- 213 Logroño
- 214 Palencia
- 215 Salamanca
- 216 Segovia
- 217 Soria
- 218 Valladolid
- 219 Zamora

22 11 *Central, north-east*

- 220 Cuenca
- 221 Guadalajara
- 222 Huesca
- 223 Lérida (incl. Andorra)
- 224 Navarra
- 225 Teruel
- 226 Zaragoza

23 11 *North-east coast*

- 230 Barcelona
- 231 Castellón
- 232 Gerona
- 233 Tarragona

24 11 *South-east coast*

- 240 Albacete
- 241 Alicante
- 242 Almería
- 243 Murcia
- 244 Valencia

25 11 *Central, south*

- 250 Badajóz
- 251 Cáceres
- 252 Ciudad Real
- 253 Madrid
- 254 Toledo

26 11 *South*

- 260 Cádiz (incl. Gibraltar)
- 261 Córdoba
- 262 Granada
- 263 Huelva
- 264 Jaén
- 265 Málaga
- 266 Sevilla

27 11 *Baleares*

- 270 Ibiza (incl. Formentera)
- 271 Mallorca (incl. Cabrera)
- 272 Menorca

2 12 12 Portugal (provinces)

28 11 *North*

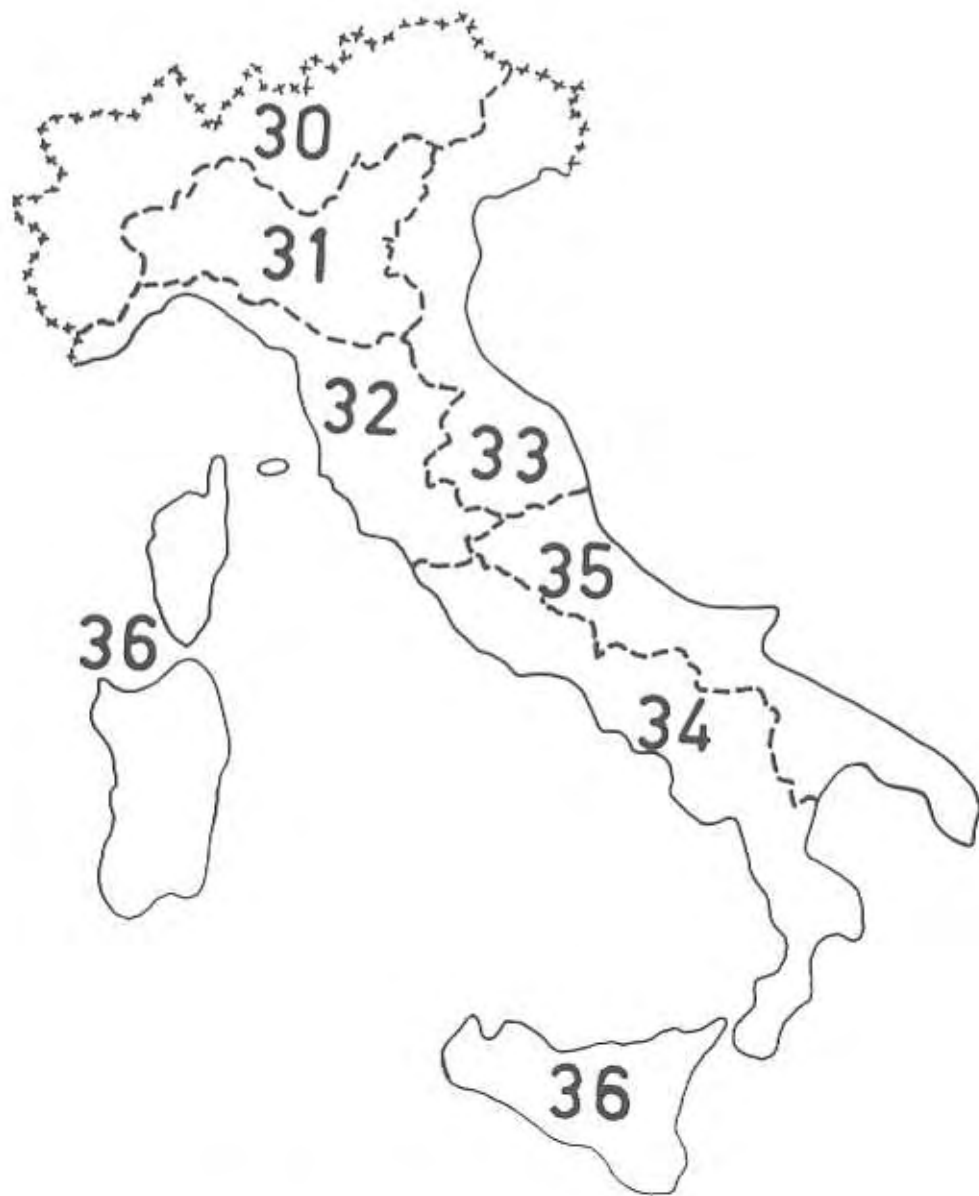
- 280 Beira Alta
- 281 Beira Litoral
- 282 Douro Litoral
- 283 Minho
- 284 Trás-os-Montes

29 11 *South*

- 290 Algarve
- 291 Alto Alentejo
- 292 Baixo Alentejo
- 293 Beira Baixa
- 294 Estremadura
- 295 Ribatejo

ALPHABETICAL LIST OF PROVINCES OF SPAIN

200 Alava	220 Cuenca	214 Palencia
240 Albacete	232 Gerona	2711 Palma de Mallorca
241 Alicante	262 Granada	224 Pamplona
242 Almería	221 Guadalajara	206 Pontevedra
205 Asturias	202 Guipúzcoa	215 Salamanca
210 Avila	263 Huelva	207 Santander
250 Badajóz	222 Huesca	202 San Sebastian
2711 Balearic Islands	264 Jaén	226 Saragossa
230 Barcelona	212 León	216 Segovia
208 Bilbao	223 Lérida	266 Sevilla
208 Biscaya	213 Logroño	217 Soria
211 Burgos	203 Lugo	233 Tarragona
251 Cáceres	253 Madrid	225 Teruel
260 Cádiz	265 Málaga	254 Toledo
231 Castellón	243 Murcia	244 Valencia
252 Ciudad Real	224 Navarra	218 Valladolid
261 Córdoba	204 Orense	208 Vizcaya
201 Coruña	205 Oviedo	219 Zamora
		226 Zaragoza



SECONDARY DIVISION: ITALY

3. MEDITERRANEAN

3 II II Italy (incl. Corsica and Malta)

(mainland in provinces, or groups of provinces,
islands not subdivided, alphabetical list on p. 32)

30 II *Alpine area*

- 300 Belluno
- 301 Bergamo
- 302 Bolzano
- 303 Brescia
- 304 Como & Sondrio & Varese
- 305 Cuneo
- 306 Novara & Vercelli
- 307 Torino
- 308 Trento
- 309 Valle d'Aosta

31 II *Po area*

- 310 Alessandria & Asti
- 311 Bologna
- 312 Cremona & Mantova
- 313 Milano
- 314 Modena
- 315 Parma & Reggio n.Emilia
- 316 Pavia
- 317 Piacenza
- 318 Verona
- 319 Vicenza

32 II *North Tyrrhenian*

- 320 Arezzo
- 321 Firenze
- 322 Genova & Massa Carrara & Spezia
- 323 Grosseto
- 324 Imperia & Savona
- 325 Livorno & Pisa
- 326 Lucca & Pistoia
- 327 Siena
- 328 Terni
- 329 Viterbo

33 II *North Adriatic*

- 330 Ancona & Pesaro e Urbino
- 331 Ascoli Piceno & Macerata
- 332 Ferrara & Rovigo
- 333 Forlì & San Marino
- 334 Gorizia & Udine
- 335 Padova
- 336 Perugia
- 337 Ravenna
- 338 Treviso
- 339 Venezia

34 II *South Tyrrhenian*

- 340 Avellino
- 341 Benevento
- 342 Caserta & Napoli
- 343 Catanzaro
- 344 Cosenza
- 345 Frosinone & Latina
- 346 Potenza
- 347 Reggio di Calabria
- 348 Roma
- 349 Salerno

35 II *South Adriatic*

- 350 Aquila d.Abruzzi
- 351 Bari
- 352 Brindisi & Lecce
- 353 Campobasso
- 354 Chieti
- 355 Foggia
- 356 Matera
- 357 Pescara & Teramo
- 358 Rieti
- 359 Taranto (Ionio)

36 II *Islands near Italy*

- 360 Corse (Corsica)
- 361 Elba
- 362 Sardegna (Sardinia)
- 363 Sicilia (incl. islands to the west and north)
- 364 Malta
- 365 Pantellaria
- 366 Isole Pelagie

37 II *Jugoslavia & Albania*

(provinces, Albania not subdivided)

- 370 ALBANIA
- 371 Bosna-Hercegovina
- 372 Crna-Gora (Montenegro)
- 373 Hrvatska (Kroatia, Dalmatia)
- 374 Kosovo-Metohija
- 375 Makedonija
- 376 Slovenija (incl. Trieste)
- 377 Srbija (Serbia)
- 378 Vojvodina

38 II Greece (provinces)

- 380 Aegean Islands 1)
- 381 Ionian Islands
- 382 Kriti (Crete)
- 383 Makedhonia
- 384 Peloponnisos 2)
- 385 Piros
- 386 Sterea Ellas 3)
- 387 Thessalia
- 388 Thraki

1) except those belonging to other provinces

2) including islands west of 24°0' E.L.

3) excluding Islands west of 24°0' E.L.

39 II Near East

- 390 Cyprus
- 391 Israel
- 392 Jordan
- 393 Lebanon
- 394 Syria
- 395 Turkey, west of 30°0' E.L.
- 396 Turkey, between 30°0' and 33°0' E.L.
- 397 Turkey, between 33°0' and 36°0' E.L.
- 398 Turkey, between 36°0' and 39°0' E.L.
- 399 Turkey, east of 39°0' E.L.

ALPHABETICAL LIST OF THE PROVINCES OF ITALY

- | | | |
|-----------------------|---------------------|------------------------|
| 310 Alessandria | 322 Genova | 337 Ravenna |
| 330 Ancona | 334 Gorizia | 347 Reggio d. Calabria |
| 350 Aquila d. Abruzzi | 323 Grosseto | 315 Reggio n. Emilia |
| 320 Arezzo | 324 Imperia | 358 Rieti |
| 331 Ascoli Piceno | 359 Iorio | 348 Roma |
| 310 Asti | 366 Isole Pelagie | 332 Rovigo |
| 340 Avellino | 345 Latina | 349 Salerno |
| 351 Bari | 352 Lecce | 333 San Marino |
| 300 Belluno | 325 Livorno | 362 Sardegna |
| 341 Benevento | 326 Lucca | 362 Sardinia |
| 301 Bergamo | 331 Macerata | 324 Savona |
| 311 Bologna | 364 Malta | 327 Siena |
| 302 Bolzano | 312 Mantova | 363 Sicilia |
| 303 Brescia | 322 Massa Carrara | 304 Sondrio |
| 352 Brindisi | 356 Matera | 322 Spezia |
| 353 Campobasso | 313 Milano | 359 Taranto |
| 342 Caserta | 314 Modena | 357 Teramo |
| 343 Cantanzaro | 342 Napoli | 328 Terni |
| 354 Chieti | 306 Novara | 307 Torino |
| 304 Como | 335 Padova | 308 Trento |
| 344 Cosenza | 365 Pantellaria | 338 Treviso |
| 360 Corse (Corsica) | 315 Parma | 376 Trieste |
| 312 Cremona | 316 Pavia | 334 Udine |
| 305 Cuneo | 336 Perugia | 309 Valle d'Aosta |
| 361 Elba | 357 Pescara | 304 Varese |
| 332 Ferrara | 330 Pesaro e Urbino | 339 Venezia |
| 321 Firenze | 317 Piacenza | 306 Vercelli |
| 355 Foggia | 325 Pisa | 318 Verona |
| 333 Forli | 326 Pistoia | 319 Vicenza |
| 345 Frosinone | 346 Potenza | 329 Viterbo |

4. FENNOSCANDIA

4 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)

- Aerö 403
- 400 Anholt
- Bornholm 410
- Falster 404
- Fanö 407
- 401 Fyn (Fünen)
- 402 Jylland (Jutland)
- Langeland 401
- 403 Laesö
- Lolland 404
- 404 Maribo
- Møn 406
- Römö 407
- Saltholm 406
- 405 Samsö
- 406 Sjælland (Seeland)
- 407 Danish North Frisian Islands
- 410 Bornholm

4 12 12 Norway (provinces)

- 420 Akershus (Oslo included)
- 421 Aust-Agder
- Bergen (city) 425
- 422 Buskerud
- 423 Finnmark
- 424 Hedmark
- 425 Hordaland (Bergen included)
- 426 Møre og Romsdal
- 427 Nordland
- 428 Nord-Trøndelag
- 429 Opland
- Oslo (city) 420
- 430 Östfold
- 431 Rogaland
- 432 Sogn og Fjordane
- 433 Sør-Trøndelag
- 434 Telemark
- 435 Troms
- 436 Vest-Agder
- 437 Vestfold

4 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)

- 440 Alvsborg
- (Angermannland) 460,461
- 441 Blekinge
- Bohus 443
- (Dalarna) 442,448
- (Dalsland) 440
- (Gastrikland) 442
- 442 Gävleborg
- 443 Göteborg och Bohus
- Gotland 470
- 444 Halland
- (Hälsingland) 442,445
- (Härjedalen) 445
- 445 Jämtland
- (Jämtland) 445,461
- 446 Jönköping
- 447 Kalmar
- 448 Kopparberg
- 449 Kristianstad
- 450 Kronoberg
- (Lapland) 452, 460
- 451 Malmöhus
- (Medelpad) 461
- (Närke) 453
- 452 Norbotten
- Öland 471
- 453 Örebro
- 454 Ostergötland
- (Skåne) 449, 451
- 455 Skaraborg
- (Småland) 446, 447, 450
- 456 Södermanland
- (Södermanland) 456, 457, 462
- 457 Stockholm (city included)
- (Uppland) 457, 458, 462
- 458 Uppsala
- 459 Värmland
- (Värmland) 459, 453
- 460 Västerbotten
- (Västergötland) 440, 443, 455
- 461 Västernorrland
- 462 Västmanland
- (Västmanland) 462, 453
- 470 Gotland
- 471 Öland

FENNOSCANDIA contd.

4 11 12 Finland (provinces)

- Ahvenanmaa (Åland) 490
- 480 Häme (Tavastehus)
- 481 Kuopio
- 482 Kymi (Kymmeni)
- 483 Lappi (Lappland)
- 484 Mikkeli (St. Michel)
- 485 Oulu (Uleåborg)
- 486 Turku-Pori (Åbo-Bjorneborg)
- 487 Uusimaa (Nyland)
- 488 Vaasa (Vasa)
- 490 Ahvenanmaa (Åland)

5. CENTRAL EUROPE NORTHWEST

- 50 II The Netherlands**
 (provinces, separate units; all Frisian Isles, IJsselmeerpolders)
Frisian Isles
 (characterised by a 0, 1, 2, or 3 in column 28 or 43)
- 500 Texel
 501 Vlieland
 502 Griend
 503 Terschelling
 511 Ameland
 512 Schiermonnikoog
 513 Rottumeroog
Remaining part
- 504 Drente
 505 Friesland
 506 Gelderland
 507 Groningen
 508 Limburg
 509 Noord-Brabant
 514 Noord-Holland
 515 Overijssel
 516 Utrecht
 517 IJsselmeerpolders (Urk and Schokland incl.)
 518 Zeeland
 519 Zuid-Holland
- 52 II Belgium & Luxembourg**
 (provinces)
- 520 Antwerpen (Anvers)
 521 Brabant
 522 Henegouwen (Hainaut)
 523 Limburg (Limbourg)
 524 Luik (Liège)
 525 Luxembourg
 526 Namen (Namur)
 527 Oost-Vlaanderen (Flandre Orient.)
 528 West-Vlaanderen (Flandre Occid.)
- 529 Luxembourg
- 5 II II Germany** ("Bezirke" *;
 Separate unit:
 Helgoland)
- 53 II Niedersachsen & Bremen**
- 530 Aurich & Oldenburg
 531 Braunschweig & Hildesheim
 532 Bremen & Stade
 Hildesheim 531
 533 Hannover
- 534 Lüneburg
 Oldenburg 530
 535 Osnabrück
 Stade 532
 536 Schleswig Holstein & Hamburg
 537 Helgoland
- 54 II Nordrhein-Westfalen**
- 540 Aachen & Köln
 541 Arnsberg
 542 Detmold
 543 Düsseldorf
 Köln 540
 544 Münster
- 54 II Hessen, Rheinland-Pfalz, Saarland**
- 545 Darmstadt & Wiesbaden
 546 Kassel
 547 Koblenz, Montabaur & Trier
 Montabaur 547
 548 Pfalz & Rheinhessen
 Rheinhessen 548
 549 Saarland
 Trier 547
 Wiesbaden 545
- 55 II Baden-Württemberg**
- 550 Nordbaden & Nordwürttemberg
 551 Südbaden
 552 Südwürttemberg-Hohenzollern
- 55 II Bayern**
- 553 Oberbayern
 554 Niederbayern
 555 Mittelfranken
 556 Oberfranken
 557 Unterfranken
 558 Oberpfalz
 559 Schwaben
- 56 II "Mecklenburg" ****
- 560 Neubrandenburg
 561 Rostock
 662 Schwerin
- 56 II "Brandenburg" ****
- 563 Berlin (West & East)
 564 Cottbus
 565 Frankfurt (Oder)
 566 Potsdam

* see next page

57 II *"Sachsen Anhalt"* **

- 570 Halle
- 571 Magdeburg

57 II *"Sachsen" & "Thuringen"* **

- 572 Chemnitz/Karl-Marx-Stadt
- 573 Dresden
- 574 Erfurt
- 575 Gera
- 576 Leipzig
- 577 Suhl

5 II II *Poland (provinces)*

58 II *Poland Northwest*

- 580 Bydgoszcz (Bromberg)
- 581 Gdansk (Danzig)
- 582 Koszalin (Köslin)
- 583 Olsztyn (Allenstein)
- 584 Poznan (Posen)
- 585 Szczecin (Stettin)
- 586 Zielona Gora (Grünberg)

59 II *Poland Southeast*

- 590 Bialystok
- 591 Kielce
- 592 Krakow
- 593 Lodz
- 594 Lublin
- 595 Opole (Oppeln)
- 596 Rzeszow
- 597 Stalinogród (Katowice)
- 598 Warszawa (Warschau)
- 599 Wroclaw (Breslau)

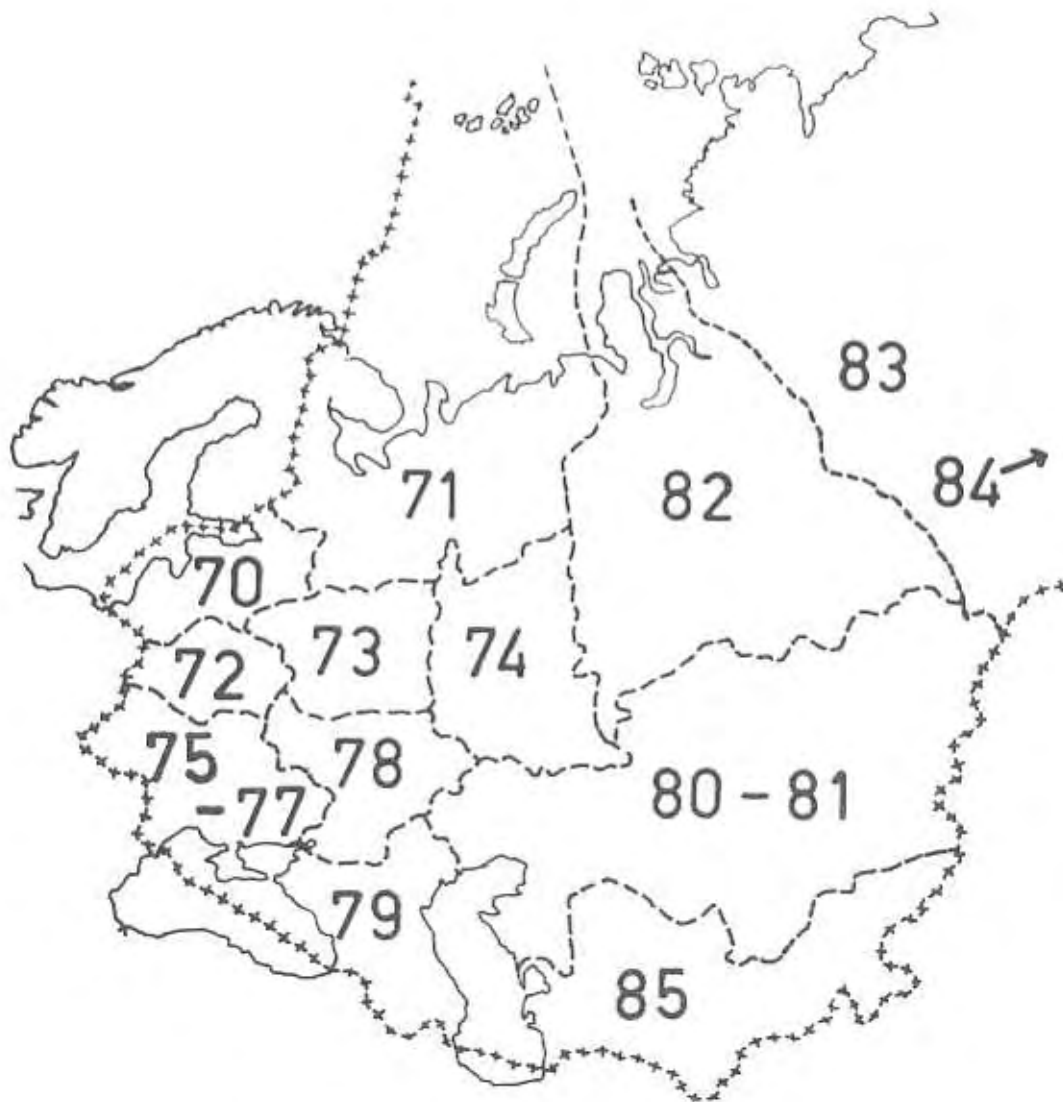
- * The boundaries of the "Bezirke" are not given in the Times Atlas. To find these the following map is recommended:

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".

6. CENTRAL EUROPE SOUTHEAST

- | | |
|---|---|
| <p>60 II Austria (provinces)</p> <ul style="list-style-type: none"> 600 Burgenland 601 Kärnten 602 Niederösterreich 603 Oberösterreich 604 Salzburg 605 Steiermark 606 Tirol 607 Vorarlberg (Incl. Liechtenstein) 608 Wien <p>6 II II Czechoslovakia (regions)</p> <p>61 II Bohemia</p> <ul style="list-style-type: none"> 610 České Budejovice 611 Hradec Kralove 612 Jihlava 613 Karlovy Vary 614 Liberec 615 Pardubice 616 Pizen (Pilsen) 617 Praha 618 Usti nad Labem <p>62 II Moravia & Slovakia</p> <ul style="list-style-type: none"> 620 Banska Bystrica 621 Bratislava (Pressburg) 622 Brno (Brünn) 623 Gottwaldov 624 Košice 625 Nitra 626 Olomouc 627 Ostrava 628 Prešov 629 Zilina <p>6 II 12 Hungary (counties)</p> <p>63 II Hungary West</p> <ul style="list-style-type: none"> 630 Baranya 631 Fejér 632 Győr-Sopron 633 Komárom 634 Somogy 635 Tolna 636 Vas 637 Veszprém 638 Zala | <p>64 II Hungary East</p> <ul style="list-style-type: none"> 640 Bács-Kiskun 641 Békés 642 Borsod-Abaúj-Zemplén 643 Csongrád 644 Hajdu-Bihar 645 Heves 646 Jász-Nagykum-Szolnok 647 Nógrád 648 Pest 649 Szabolcs-Szatmár <p>6 II 12 Romania (regions)</p> <p>65 II Romania Northwest</p> <ul style="list-style-type: none"> 650 Arad 651 Bacău 652 Baia Mare 653 Cluj (Kolozsvár) 654 Hunedoara 655 Magyar Autonomous Region 656 Oradea (Nagyvarad) 657 Oraşul Stalin (Braşov) 658 Suceava 659 Timişoara <p>66 II Romania Southeast</p> <ul style="list-style-type: none"> 660 Bârlad 661 Bucureşti (Bucharest) 662 Constanţa 663 Craiova 664 Galaţi (Galatz) 665 Iaşi (Jassy) 666 Piteşti 667 Ploeşti <p>6 II 12 Bulgaria (provinces)</p> <ul style="list-style-type: none"> 670 Blagoevgrad Burgas 680 671 Khaskovo 672 Kolarovgrad 673 Pleven 674 Plovdiv 675 Ruse 676 Sofiya Stalin 681 677 Stara Zagora 678 Turnovo 679 Vratsa 680 Burgas } <i>Black Sea provinces</i> 681 Stalin } |
|---|---|



SECONDARY DIVISION: U.S.S.R.

7 II II. 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 p.41

- | | |
|---|---|
| <p>70 II Baltic Area</p> <p>700 Estoniya</p> <p>701 Kaliningrad</p> <p>702 Latviya</p> <p>703 Leningrad</p> <p>704 Lithuania</p> <p>705 Novgorod</p> <p>706 Pskov (& Vellkiye Luki)</p> <p>71 II North Russia</p> <p>710 Arkhangelsk (excl. Nenets N.O.**
Frans Josef Land and Nov.Zemlya)</p> <p>711 Franz Josef Land</p> <p>712 Karelia</p> <p>713 Komi ASSR</p> <p>714 Murmansk</p> <p>715 Nenets N.O.** (incl. Kolguyev and
Vaygach Is.)</p> <p>716 Novaya Zemlya</p> <p>717 Vologda</p> <p>72 II White Russia (incl. Bryansk
and Kaluga)</p> <p>720 Brest</p> <p>721 Bryansk</p> <p>722 Gomel</p> <p>723 Grodno</p> <p>724 Kaluga</p> <p>725 Minsk</p> <p>726 Mogilev
Molodechno 725</p> <p>727 Smolensk</p> <p>728 Vitebsk</p> <p>73 II Central Russia</p> <p>730 Gorkiy</p> <p>731 Ivanovo</p> <p>732 Kallnin</p> <p>733 Kostroma</p> <p>734 Mordovia</p> <p>735 Moscow</p> <p>736 Ryazan'</p> <p>737 Tula</p> <p>738 Vladimir</p> <p>739 Yaroslavl'</p> | <p>74 II West of Urals</p> <p>740 Bashkir</p> <p>741 Chuvash</p> <p>742 Kirov</p> <p>743 Kuybyshev</p> <p>744 Mariy</p> <p>745 Orenburg</p> <p>746 Perm' (incl. Komy-Permyak)</p> <p>747 Tatar</p> <p>748 Udmurt</p> <p>749 Ul'yanovsk</p> <p>75 II Ukraine & Moldaviya</p> <p>750 Cherkassy</p> <p>751 Chernigov</p> <p>752 Chernovtsy</p> <p>753 Dnepropetrovsk</p> <p>754 Donetsk
Drogobych 763
Kamenets Podolsk 757</p> <p>755 Kharkov</p> <p>756 Kherson</p> <p>757 Khmel'nitsk</p> <p>758 Kirovograd</p> <p>759 Kiyev (Kiev)</p> <p>760 Krym (Krim)</p> <p>761 Lugansk</p> <p>762 Lutsk</p> <p>763 Lvov</p> <p>764 MOLDAVIYA</p> <p>765 Nikolayev</p> <p>766 Odessa</p> <p>767 Poltava</p> <p>768 Rovno
Stalino 754</p> <p>769 Stanislav</p> <p>770 Sumy</p> <p>771 Ternopol'</p> <p>772 Uzhgorod</p> <p>773 Vinnitsa
Volyn 762
Voroshilovgrad 761
Zakarpatsk 772</p> <p>774 Zaporoz'ye</p> <p>775 Zhitomir</p> |
|---|---|

* Boundaries not shown in Times Atlas

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

78 II *Don and Middle Volga*

- 780 Belgorod
- 781 Kursk
- 782 Lipetsk
- 783 Orel
- 784 Penza
- 785 Rostov
- 786 Saratov
- Stalingrad 788
- 787 Tambov
- 788 Volgograd
- 789 Voronezh

79 II *Lower Volga and Caucasus*

- 790 Armeniya (incl. Nakhichevan)
- 791 Astrakhan
- 792 Azerbaydzhan
- 793 Checheno-Ingushiya, Kabardino-Balkariya, Karachay-Cherkess, Severo-Osetiya
- 794 Dagestan
- 795 Georgia (Gruziya) (incl. Abkhaziya, Adzhariya)
- 796 Kalmyk
- 797 Krasnodar (incl. Adygey)
- 798 Stavropol

8 II II. U. S. S. R. ASIATIC PART

Division:

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

80 II *Kazakhstan and Altay*

- 800 Aktyubinsk
Akmolinsk 815
- 801 Alma-Ata
- 802 Altay (excl. Gorno-Altaysk)
- 803 Chimkent
- 804 Dzhabul
- 805 Gorno-Altaysk
- 806 Gur'yev
- 807 Karaganda
- 808 Kokchetav
- 809 Kustanay
- 810 Kzyl-Orda
- 811 Pavlodar
- 812 Petropavlovsk
Severnaya Kazakhstan 812
- 813 Semipalatinsk
- 814 Taldy-Kurgan
- 815 Tselinograd
- 816 Ural'sk
- 817 Ust'Kamenogorsk
Vostochno-Kazakhstan 817
Yuzno-Kazakhstan 803
Zapadno-Kazakhstan 816

82 II *Siberia West*

- 820 Chelyabinsk
- 821 Kemerovo
- 822 Khanty-Mansi *
- 823 Kurgan
- 824 Novosibirsk
- 825 Omsk
- 826 Sverdlovsk
- 827 Tomsk
- 828 Tyumen' (excl. Khanty-Mansi
and Yamal-Nenets) *
- 829 Yamal-Nenets *

83 II *Siberia Central*

- 830 Evenkiysk *
- 831 Irkutsk
- 832 Khakass
- 833 Krasnoyarsk (excl. Evenkiysk,
Novosib.Ostr. and Taymyr) *
- 834 Novosibirskye Ostrova (New
Siberian Islands)
- 835 Severnaya Zemlya
- 836 Taymyr *
- 837 Tuva (Tannu-Tuva)
- 838 Yakut East of 135° E.L.
- 839 Yakut West of 135° E.L.

84 II *Siberia East*

- Amursk 840
- 840 Blagoveshchensk
- 841 Buryat (Buryat-Mongol)
- 842 Chita
- 843 Chukotsk ** & Wrangel Islands
Commander Islands 844
- 844 Kamchatka (& Commander Islands)
- 845 Khabarovsk
- 846 Kuril Islands
- 847 Magadan (excl. Chukotsk) **
- 848 Sakhalin (excl. Kuril Islands)
- 849 Vladivostok (Primorski)
Wrangel Islands 843

85 II *Asia Central*

- 850 Ashkhabad (Turkmen)
- 851 Chardzhou (Turkmen)
- 852 Kara-Kalpak
- 853 Kirgizia
- 854 Mary (Turkmen)
- 855 Tadzhikistan
- 856 Tashauz (Turkmen)
Turkmenistan 850, 851, 854, 856
- 857 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.

- | | |
|---|---|
| 795 Abkhaziya ASSR | 700 Estoniya, Estland SSR |
| 797 Adygey AO | 830 Evenkiysk NO |
| 795 Adzharlya ASSR | 711 Franz Joseph Land,
part of Arkhangelsk O |
| 815 Akmollinsk O | 795 Georgia SSR |
| 800 Aktyubinsk O | 722 Gomel O |
| 801 Alma-Ata O | 730 Gorkiy O |
| 802 Altay K
(excl. Gorno-Altaysk I) | 805 Gorno-Altaysk AO |
| 840 Amursk O | 723 Grodno O |
| 710 Arkhangelsk O
(excl. Nenets and Islands I) | 795 Gruzlya SSR |
| 790 Armeniya SSR | 806 Guryev O |
| 850 Ashkhabad O | 831 Irkutsk O |
| 791 Astrakhan O | 731 Ivanovo O |
| 792 Azerbaydzhan SSR | 793 Kabardino-Balkariya ASSR |
| 740 Bashkir ASSR | 732 Kalinin O |
| 780 Belgorod O | 701 Kaliningrad O |
| 72 <u>II</u> Belorussiya SSR
(subdivided) | 796 Kalmyk (Kalmytskaya) ASSR |
| 840 Blagoveshchensk O | 724 Kaluga (Kaluzhkaya) O |
| 720 Brest O | 844 Kamchatka O |
| 721 Bryansk O | 757 Kamenets-Podolsk O |
| 841 Buryat (-Mongol) ASSR | 793 Karachay-Cherkess AO |
| 851 Chardzhou O | 807 Karaganda O |
| 793 Checheno-Ingushiya ASSR | 852 Kara-Kalpak ASSR |
| 820 Chelyabinsk O | 712 Karelia (Karelskaya) ASSR |
| 750 Cherkassy O | 80 <u>II</u> Kazakhstan SSR (subdivided) |
| 751 Chernigov O | 821 Kemerovo O |
| 752 Chernovtsy (Chernovits) O | 845 Khabarovsk K |
| 803 Chimkent O | 832 Khakass AO |
| 842 Chita (Chitinskaya) O | 822 Khanti-Mansi NO |
| 745 Chkalov O | 755 Kharkov O |
| 843 Chukotsk NO | 756 Kherson O |
| 741 Chuvash ASSR | 757 Khmel'nitsk O |
| 844 Commander Islands,
part of Kamchatka O | 759 Kiev O |
| 760 Crimea O | 853 Kirgizia SSR |
| 794 Dagestan ASSR | 742 Kirov O |
| 753 Dnepropetrovsk O | 758 Kirovograd O |
| 754 Donetsk O | 759 Kiyev O |
| 763 Drogobych O | 808 Kokchetav O |
| 804 Dzhambul O | 844 Komandorskiye Ostrova,
part of Kamchatka O |
| | 713 Komi ASSR |
| | 746 Komy-Permyak NO |

733	Kostroma O	767	Poltava O
797	Krasnodar K	849	Primorski K
833	Krasnoyarsk K (excl. Evenkiysk, Taymyr and islands)	706	Pskov O
760	Krym, Krim O	768	Rovno (Rovenskaya) O
823	Kurgan O	785	Rostov O
846	Kuril Islands, Kuril'skiye Ostrova, part of Sakhalin O	736	Ryazan O
781	Kursk O	848	Sakhalin O (excl. Kuril Islands I)
809	Kustanay O	786	Saratov O
743	Kuybyshev O	813	Semipalatinsk O
810	Kzyl-Orda	812	Severnaya Kazakhstan O
702	Latviya, Letland SSR	835	Severnaya Zemlya, part of Krasnoyarsk K
703	Leningrad O	793	Severo-Osetiya ASSR
782	Lipetsk O	727	Smolensk O
704	Litva, Lithuania, Litauen (Litovskaya) SSR	788	Stalingrad O
761	Lugansk O	754	Stalino O
762	Lutsk O	769	Stanislav O
763	Lvov O	798	Stavropol O
847	Magadan O (excl. Chukotsk!)	770	Sumy (Sumskaya) O
744	Mariy ASSR	826	Sverdlovsk O
854	Mary O	855	Tadzhikistan SSR
725	Minsk O	814	Taldy-Kurgan O
726	Mogilev O	837	Tannu-Tuva AO
764	Moldaviya SSR	787	Tambov O
725	Molodechno O	856	Tashauz O
746	Molotov O	747	Tatar SSR
734	Mordovia (Mordovskaya) O	836	Taymyr NO
735	Moskva, Moscow (Moskovskaya) O	771	Ternopol O
714	Murmansk O	827	Tomsk O
790	Nakhichevan ASSR	815	Tselinograd O
715	Nenets NO (excl. Nov. Zemlya and F. Joseph Land)	737	Tula (Tul'skaya) Turkmenistan SSR 850, 851, 854, 856
765	Nikolayev O	837	Tuva (Tuvinskaya) AO
716	Novaya Zemlya, part of Arkhangelsk O	828	Tyumen O (excl. Khanti-Mansi and Yamal Nenets)
705	Novgorod O	748	Udmurt ASSR
824	Novosibirsk O	751	Ukraine SSR (subdivided)
834	Novosibirskiy Ostrova, part of Krasnoyarsk K	749	Ulyanovsk O
766	Odessa O	816	Ural'sk O
825	Omsk O	817	Ust-Kamenogorsk O
745	Orenburg O	857	Uzbekistan SSR (excl. Kara-Kalpak!)
783	Orel (Orlovskaya) O	772	Uzhgorod O
811	Pavlodar O	706	Velikiye-Luki, part of Pskov O
784	Penza (Penzenskaya) O	773	Vinnitsa O
746	Perm O	728	Vitebsk O
812	Petropavlovsk O	738	Vladimir O
		849	Vladivostok K
		788	Volgograd O
		717	Vologda O
		762	Volyn O
		789	Voronezh O

- 761 Voroshilovgrad O
- 817 Vostochno-Kazakhstan SSR
- 72 II White Russia (subdivided)
- 843 Wrangel Island,
part of Magadan O
- Yakut ASSR 838, 839
- 829 Yamal-Nenets NO

- 739 Yaroslavl O
- 803 Yuzhno-Kazakhstan O
- 772 Zakarpatsk O
- 816 Zapadno-Kazakhstan O
- 774 Zaporoz'ye O
- 711 Zemlya Frantsa Iosifa,
part of Arkhangelsk O
- 775 Zhitomir O

86 II Asia South West

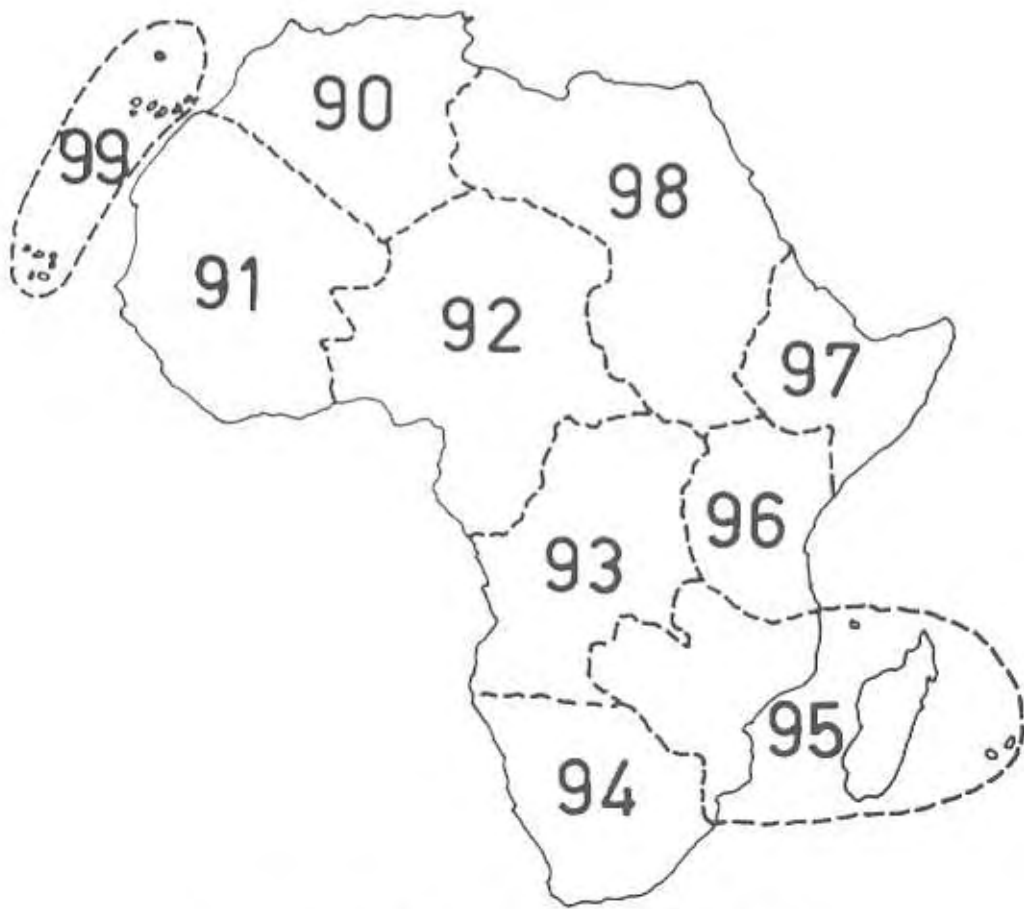
- Aden 861
- 860 Afghanistan
- 861 Arabia (the whole peninsula)
- Bhutan 878
- 862 Ceylon
- Hadramaut 861
- 863 India: Andhra Pradesh
- 864 India: Assam (and East Pakistan)
- 865 India: Bihar
- 866 India: Bombay
- 867 India: Karella and Madras
- 868 India: Madya Pradesh
- 869 India: Mysore (incl. Goa)
- 870 India: Orissa
- 871 India: Punjab
- 872 India: Rajasthan
- 873 India: Uttar Pradesh
- 874 India: West Bengal
- 875 Iran
- 876 Iraq
- 877 Jammu and Kashmir
- Kuwait 861
- Muscat and Oman 861
- 878 Nepal
- Pakistan East 864
- 879 Pakistan West
- Persia 875
- Quatar 861
- Saudi Arabia 861
- Sikkim 878
- Trucial Oman 861
- Yemen 861

88 II China, Japan, Philippines

- 880 China: Sinkiang
- 881 China: Tibet
- 882 China: Inner Mongolia
- 883 China: Manchuria
- 884 China: remaining coastal provinces
- 885 China: remaining inland provinces
- 886 Japan
- 887 Korea
- 888 Mongolia
- 889 Philippines

89 II Further India, Indonesia, Australasia

- 890 Australia (excl. New Guinea)
- 891 Burma
- 892 Cambodia, Laos & Vietnam
- 893 Indonesia (excl. New Guinea)
- Laos 892
- 894 Malaya
- 895 New Guinea
- 896 New Zealand
- 897 Polynesia
- 898 Sarawak (incl. Brunei)
- 899 Thailand (Siam)
- Vietnam 892



SECONDARY DIVISION : AFRICA

9. AFRICA

Africa is divided into countries or subdivisions of countries as given in the Times Atlas. However, French West Africa, French Equatorial Africa and British East Africa are not considered as units.

If a country is subdivided, a number of provinces are often combined. The last secondary division is devoted to the archipelagos northwest of Africa.

90|| *Northwest Africa*

- 900 Algeria: province Alger
- 901 Algeria: province Constantine
- 902 Algeria: province Oran
- 903 Algeria: remaining provinces
- 904 Morocco (incl. Ceuta or Spanish Morocco, Tangier, Ifni and Melilla)
- 905 Tunisia

91|| *West Africa*

- Côte d'Ivoire 913
- French Guinea 911
- French Sudan 915
- Gambia 918
- 910 Ghana (Gold Coast)
- 911 Guinea (French and Portug.)
- 912 Haute Volta
- 913 Ivory Coast
- 914 Liberia
- 915 Mali
- 916 Mauritania
 - Portugese Guinea 911
- 917 Río de Oro
- 918 Sénégal (incl. Gambia)
- 919 Sierra Leone
 - Soudan Français 915
 - Spanish West Africa 917
 - Upper Volta 912

92|| *Central Africa*

- Annobon 927
- Cabinda 922
- 920 Cameroun *
 - Chad 928
- 921 Central African Republic
- 922 Congo (Brazzaville)
- 923 Dahomey

Fernando Po 927

- 924 Gabon
 - Moyen Congo (Middle Congo) 922
- 925 Niger *
- 926 Nigeria
 - Oubangui Chari 921
 - Principe 927
 - Sao Thomé 927
- 927 Spanish Guinea (Rio Muni) including islands in the Gulf of Guinea.
- 928 Tchad
- 929 Togo

93|| *Congo (Leopoldville) and Angola*

- 930 Angola NW (Congo, Cuanza Norte, Cuanza Sul)
- 931 Angola NE (Luanda, Malanje)
- 932 Angola SE (Bié-Cuando Cub., Moxico)
- 933 Angola SW (Benguela, Huambo, Huila, Moçâmedes)
- 934 Congo: Equateur
- 935 Congo: Kasal
- 936 Congo: Katanga
- 937 Congo: Kivu
- 938 Congo: Leopoldville
- 939 Congo: Orientale

94|| *South Africa and S.W. Africa*

- 940 Basutoland
- 941 Bechuanaland Protectorate
- 942 South West Africa
- 943 Swaziland
- 944 Union of S.Africa: Cape of Good Hope (incl. Bechuanaland)
- 945 Union of S.Africa: Natal
- 946 Union of S.Africa: Orange Free State
- 947 Union of S.Africa: Transvaal

* the south east part of Nigeria indicated in the Times Atlas as Cameroons and Bamenda is to be included in Cameroun.

951 *Southern Rhodesia, Zambia, Malawi, Mozambique, Madagascar*

- 950 Madagascar and surrounding islands
- 951 Mozambique North: Niassa, Cabo Delgado, Moçambique
- 952 Mozambique Central: Zambézia, Tete, Manica e Sofala
- 953 Mozambique South: Sul do Save, Lourenço Marques
- 954 Zambia, East part: Northern, Eastern
- 955 Zambia, West part: Central, Western, Southern, Barotseland
- 956 Malawi
- 957 Southern Rhodesia

961 *Kenya, Tanzania, Uganda, Rwanda, Burundi*

- 960 Kenya: Northern
- 961 Kenya: Central, Nyanza, Rift Valley
- 962 Kenya: Coast, Southern
- 963 Tanzania: Lake, Western
- 964 Tanzania: Central, Northern, Tanga
- 965 Tanzania: Eastern, Southern, Southern Highlands, Mafia Island
- 966 Uganda: Northern, Eastern, Karasuk
- 967 Uganda: Buganda, Western
- 968 Rwanda, Burundi
- 969 Zanzibar (Pemba included)

971 *Ethiopia, Somalia*

- 970 Ethiopia: Eritrea
- 971 Ethiopia North: Begimdir, Tigre, Wollo
- 972 Ethiopia West: Gojjam, Illubabor, Wollega
- 973 Ethiopia South: Gamu-Gofa, Kaffa, Sidamo Borama
- 974 Ethiopia Central: Arussi, Shoa
- 975 Ethiopia East: Harar
- 976 French Somaliland
- 977 Somalia North (former British protectorate)
- 978 Somalia South (former Italian colony)

981 *Sudan, Egypt, Libya*

- 980 Sudan North: Northern, Kassala, Kartoum
- 981 Sudan West: Darfur, Kordofan
- 982 Sudan East: Blue Nile, Upper Nile
- 983 Sudan South: Bahr el Gazal, Equatoria
- 984 Egypt
- 985 Libya: Cyrenaica
- 986 Libya: Fezzan
- 987 Libya: Tripolitania

991 *Northwest Archipelagos*

- 990 Azores
- 991 Canary Islands
- 992 Cape Verde Islands
- 993 Madeira

11 11 11 AMERICA & POLAR REGIONS

(If necessary, each unit can be subdivided into ten groups)

- 11 0 11 Faeroe Islands
- 11 1 11 Iceland
- 11 2 11 Greenland
- 11 3 11 Spitsbergen, Jan Mayen, Bear Island
- 11 4 11 Canada & Alaska
- 11 5 11 U.S.A. (excl. Alaska)
- 11 6 11 Caribbean (Bahama Islands, Antilles)
- 11 7 11 Mexico & Central America
- 11 8 11 South America
- 11 9 11 Antarctica

12 11 11 AT SEA

(If necessary, each unit can be subdivided into ten groups)

- 12 0 11 Arctic Ocean
- 12 1 11 Atlantic Ocean: North Sea
- 12 2 11 Atlantic Ocean: English Channel and Irish Sea
- 12 3 11 Atlantic Ocean: Bay of Biscay
- 12 4 11 Atlantic Ocean: remaining parts
- 12 5 11 Baltic Sea
- 12 6 11 Mediterranean Sea
- 12 7 11 Black Sea and Caspian Sea
- 12 8 11 Indian Ocean
- 12 9 11 Pacific Ocean

Note: Oceanic islands not listed (e.g. St. Helena) are to be coded as for the ocean in which they are situated.

CODE NUMBERS OF SPECIES AND SUBSPECIES

1. This list does not pretend to be an official list of *names*, it is for finding code numbers only.
2. The most common synonymic names are included.
3. Immigrants from outside Europe are in general excluded and their numbers can be found in Jørgensen (1958), see p.6

<p style="margin-left: 40px;">Acanthis see <i>Carduelis</i></p> <p>4910 <i>Accentor collaris</i></p> <p>4900 <i>Accentor modularis</i></p> <p>1110 <i>Accipiter gentilis</i></p> <p>1130 <i>Accipiter nisus</i></p> <p>4490 <i>Acrocephalus agricola</i></p> <p>4450 <i>Acrocephalus arundinaceus</i></p> <p>4480 <i>Acrocephalus dumetorum</i></p> <p>4510 <i>Acrocephalus paludicola</i></p> <p>4470 <i>Acrocephalus palustris</i></p> <p>4500 <i>Acrocephalus schoenobaenus</i></p> <p>4460 <i>Acrocephalus scirpaceus</i></p> <p style="margin-left: 40px;"><i>Actitis</i> see <i>Tringa</i></p> <p>3880 <i>Aegithalos caudatus</i></p> <p>3881 <i>Aegithalos caudatus caudatus</i></p> <p>3882 <i>Aegithalos caudatus rosaceus</i></p> <p>3200 <i>Aegolius funereus</i></p> <p>1290 <i>Aegyplus monachus</i></p> <p>3600 <i>Alauda alpestris</i></p> <p>3560 <i>Alauda arborea</i></p> <p>3570 <i>Alauda arvensis</i></p> <p>3540 <i>Alauda cristata</i></p> <p>2860 <i>Alca torda</i></p> <p>3320 <i>Alcedo atthis</i></p> <p>1560 <i>Alectoris graeca</i></p> <p>1570 <i>Alectoris rufa</i></p> <p>2840 <i>Alle alle</i></p> <p>5110 <i>Ampelis garrulus</i></p> <p>0780 <i>Anas acuta</i></p> <p>0830 <i>Anas clypeata</i></p> <p>0750 <i>Anas crecca</i></p> <p>0800 <i>Anas penelope</i></p> <p>0720 <i>Anas platyrhynchos</i></p> <p>0740 <i>Anas querquedula</i></p> <p>0820 <i>Anas strepera</i></p> <p>0600 <i>Anser albifrons</i></p> <p>0590 <i>Anser anser</i></p> <p>0610 <i>Anser erythropus</i></p> <p>0620 <i>Anser fabalis</i></p> <p>0621 <i>Anser fabalis fabalis</i></p> <p>0622 <i>Anser fabalis brachyrhynchus</i></p> <p>0623 <i>Anser fabalis rossicus</i></p> <p>0624 <i>Anser fabalis johanseni</i></p> <p>4950 <i>Anthus campestris</i></p> <p>4990 <i>Anthus cervinus</i></p> <p>4980 <i>Anthus gustavi</i></p> <p>4930 <i>Anthus pratensis</i></p> <p>4940 <i>Anthus richardi</i></p>	<p>5000 <i>Anthus spinoletta</i></p> <p>5001 <i>Anthus spinoletta spinoletta</i></p> <p>5002 <i>Anthus spinoletta petrosus</i></p> <p>5003 <i>Anthus spinoletta littoralis</i></p> <p>4970 <i>Anthus trivialis</i></p> <p>3270 <i>Apus apus</i></p> <p>3260 <i>Apus melba</i></p> <p>1200 <i>Aquila chrysaetos</i></p> <p>1240 <i>Aquila clanga</i></p> <p>1210 <i>Aquila hellaca</i></p> <p>1250 <i>Aquila pomarina</i></p> <p>0390 <i>Ardea cinerea</i></p> <p>0400 <i>Ardea purpurea</i></p> <p>0420 <i>Ardeola ralloides</i></p> <p>0470 <i>Ardetta minuta</i></p> <p>2180 <i>Arenaria interpres</i></p> <p>3180 <i>Asio flammeus</i></p> <p>3170 <i>Asio otus</i></p> <p style="margin-left: 40px;"><i>Astur</i> see <i>Accipiter</i></p> <p>3130 <i>Athene noctua</i></p> <p>0860 <i>Aythya ferina</i></p> <p>0870 <i>Aythya fuligula</i></p> <p>0890 <i>Aythya marila</i></p> <p>0880 <i>Aythya nyroca</i></p> <p>5110 <i>Bombycilla garrulus</i></p> <p>0480 <i>Botaurus stellaris</i></p> <p>0660 <i>Branta bernicla</i></p> <p>0661 <i>Branta bernicla bernicla</i></p> <p>0662 <i>Branta bernicla hrota</i></p> <p>0680 <i>Branta canadensis</i></p> <p>0670 <i>Branta leucopsis</i></p> <p>3090 <i>Bubo bubo</i></p> <p>0900 <i>Bucephala clangula</i></p> <p>2440 <i>Burhinus oedicnemus</i></p> <p>1150 <i>Buteo buteo</i></p> <p>1170 <i>Buteo lagopus</i></p> <p>1140 <i>Buteo rufinus</i></p> <p>1160 <i>Buteo vulpinus</i></p> <p>3500 <i>Calandrella brachydactyla</i></p> <p>3510 <i>Calandrella rufescens</i></p> <p>5780 <i>Calcarius lapponicus</i></p> <p>2240 <i>Calidris alba</i></p> <p>2350 <i>Calidris alpina</i></p> <p>2351 <i>Calidris alpina alpina</i></p> <p>2352 <i>Calidris alpina schinzii</i></p> <p>2250 <i>Calidris canutus</i></p> <p>2360 <i>Calidris ferruginea (testacea)</i></p>
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- 2340 *Calidris maritima*
 2270 *Calidris minuta*
 2280 *Calidris temminckii*
 2360 *Calidris testacea (ferruginea)*
 2210 *Capella gallinago*
 2200 *Capella media*
 3230 *Caprimulgus europaeus*
 3220 *Caprimulgus ruficollis*
 5370 *Carduelis cannabina*
 5350 *Carduelis carduelis*
 5330 *Carduelis chloris*
 5450 *Carduelis citrinella*
 5390 *Carduelis flammea*
 5391 *Carduelis flammea flammea (holboellii)*
 5392 *Carduelis flammea cabaret*
 5393 *Carduelis flammea rostrata*
 5380 *Carduelis flavirostris*
 5430 *Carduelis hornemanni*
 5431 *Carduelis hornemanni hornemanni*
 5432 *Carduelis hornemanni exillipes*
 5360 *Carduelis spinus*
 3130 *Carine noctua*
 5500 *Carpodacus erythrina*
 0700 *Casarca ferruginea*
 Catharacta see Stercorarius
 2890 *Cephus grylle*
 3950 *Certhia brachydactyla*
 3940 *Certhia familiaris*
 4370 *Cettia cetti*
 1930 *Charadrius alexandrinus*
 1880 *Charadrius apricarius*
 1881 *Charadrius apricarius apricarius*
 1882 *Charadrius apricarius altifrons*
 1920 *Charadrius dubius*
 1910 *Charadrius hiaticula*
 1970 *Charadrius morinellus*
 1870 *Charadrius squatarola*
 3640 *Chelidon urbica*
 2700 *Chlidonias hybrida*
 2710 *Chlidonias leucopterus*
 2720 *Chlidonias niger*
 5330 *Chloris chloris*
 0500 *Ciconia ciconia*
 0510 *Ciconia nigra*
 3970 *Cinclus cinclus*
 1370 *Circaetus gallicus*
 1360 *Circus aeruginosus*
 1330 *Circus cyaneus*
 1340 *Circus macrourus*
 1350 *Circus pygargus*
 0900 *Clangula clangula*
 0930 *Clangula hyemalis*
 5320 *Coccothraustes coccothraustes*
 3710 *Coloeus monedula*
 3711 *Coloeus monedula monedula*
 3712 *Coloeus monedula spermologus*
 2970 *Columba livia*
 2980 *Columba oenas*
 2990 *Columba palumbus*
 Colymbus see Gavia
 3350 *Coracias garrulus*
 3670 *Corvus corax*
 3680 *Corvus corone*
 3681 *Corvus corone corone*
 3682 *Corvus corone cornix*
 3700 *Corvus frugilegus*
 3710 *Corvus monedula see Coloeus*
 1610 *Coturnix coturnix*
 1680 *Crex crex*
 2240 *Crocethia alba*
 3040 *Cuculus canorus*
 3730 *Cyanopica cyanus*
 4040 *Cyanosylvia svecica*
 4041 *Cyanosylvia svecica svecica*
 4042 *Cyanosylvia svecica cyanecula*
 0560 *Cygnus bewickii*
 0550 *Cygnus cygnus*
 0570 *Cygnus olor*
 Cypselus see Apus
 3640 *Delichon urbica*
 3440 *Dendrocopos leucotos*
 3410 *Dendrocopos major*
 3430 *Dendrocopos medius*
 3450 *Dendrocopos minor*
 3420 *Dendrocopos syriacus*
 Dryobates see Dendrocopos
 3400 *Dryocopus martius*
 0440 *Egretta alba*
 0450 *Egretta garzetta*
 5630 *Emberiza aureola*
 5610 *Emberiza bruniceps*
 5680 *Emberiza caesia*
 5570 *Emberiza calandra*
 5690 *Emberiza cia*
 5640 *Emberiza cirius*
 5580 *Emberiza citrinella*
 5670 *Emberiza hortulana*
 5590 *Emberiza leucocephala*
 5600 *Emberiza melanocephala*
 5720 *Emberiza pusilla*
 5710 *Emberiza rustica*
 5740 *Emberiza schoeniclus*
 3600 *Eremophila alpestris*
 4000 *Erithacus rubecula*
 Erolia see Calidris
 5500 *Erythrina erythrina*

- 1450 *Falco columbarius*
 1470 *Falco naumanni*
 1420 *Falco peregrinus*
 1410 *Falco rusticolus*
 1430 *Falco subbuteo*
 1480 *Falco tinnunculus*
 1460 *Falco vespertinus*
 4870 *Ficedula albicollis*
 4860 *Ficedula hypoleuca*
 4890 *Ficedula parva*
 2920 *Fratercula arctica*
 5550 *Fringilla coelebs*
 5560 *Fringilla montifringilla*
 1770 *Fulica atra*
 Fuligula see Aythya
 0160 *Fulmarus glacialis*
- 3540 *Galerida cristata*
 3550 *Galerida theklae*
 2210 *Gallinago gallinago*
 2200 *Gallinago media*
 1730 *Gallinula chloropus*
 3750 *Garrulus glandarius*
 0040 *Gavia adamsii*
 0020 *Gavia arctica*
 0030 *Gavia immer*
 0010 *Gavia stellata*
 Gecinus see Picus
 2730 *Gelochelidon nilotica*
 2480 *Glareola nordmanni*
 2470 *Glareola pratincola*
 3120 *Glaucidium passerinum*
 1640 *Grus grus*
 1320 *Gypaëtus barbatus*
 1300 *Gyps fulvus*
- 1820 *Haematopus ostralegus*
 1270 *Haliaeetus albicilla*
 1180 *Hieraaëtus fasciatus*
 1190 *Hieraaëtus pennatus*
 2400 *Himantopus himantopus*
 4530 *Hippolais icterina*
 4540 *Hippolais pallida*
 4520 *Hippolais polyglotta*
 3620 *Hirundo daurica*
 3650 *Hirundo riparia*
 3630 *Hirundo rupestris*
 3610 *Hirundo rustica*
 3640 *Hirundo urbica*
 0290 *Hydrobates pelagicus*
 2740 *Hydropogon caspia (tschegrava)*
 Hypolais see Hippolais
- 0470 *Ixobrychus minutus*
- 3370 *Jynx torquilla*
- 1530 *Lagopus lagopus*
 1540 *Lagopus mutus*
 1520 *Lagopus scoticus*
 5160 *Lanius collurio*
 5120 *Lanius excubitor*
 5130 *Lanius minor*
 5140 *Lanius senator*
 2560 *Larus argentatus*
 2540 *Larus audouinii*
 2550 *Larus canus*
 2570 *Larus fuscus*
 2640 *Larus genei*
 2590 *Larus hyperboreus*
 2580 *Larus marinus*
 2620 *Larus melanocephalus*
 2660 *Larus minutus*
 2630 *Larus ridibundus*
 2370 *Limicola falcinellus*
 2220 *Limnocryptes minimus*
 2040 *Limosa lapponica*
 2030 *Limosa limosa*
 4420 *Locustella fluviatilis*
 4380 *Locustella lanceolata*
 4430 *Locustella luscinioides*
 4390 *Locustella naevia*
 5520 *Loxia curvirostra*
 5540 *Loxia leucoptera*
 5530 *Loxia pytyopsittacus*
 3560 *Lullula arborea*
 4010 *Luscinia luscinia*
 4020 *Luscinia megarhynchos*
 4040 *Luscinia svecica*
 4041 *Luscinia svecica svecica*
 4042 *Luscinia svecica cyanecula*
 4440 *Luscinia melanopogon*
 2220 *Lymnocryptes minimus*
 1510 *Lyrurus tetrix*
- 2390 *Machetes pugnax*
 0800 *Mareca penelope*
 1640 *Megalornis grus*
 0990 *Melanitta fusca*
 0980 *Melanitta nigra*
 3480 *Melanocorypha calandra*
 2840 *Mergus alle*
 1040 *Mergus albellus*
 1050 *Mergus merganser*
 1060 *Mergus serrator*
 3330 *Merops apiaster*
 3270 *Micropus apus*
 3260 *Micropus melba*
 1100 *Milvus migrans*

- 1090 *Milvus milvus*
 4180 *Monticola saxatilis*
 4190 *Monticola solitarius*
 5290 *Montifringilla nivalis*
 0340 *Morus bassanus*
 5030 *Motacilla alba*
 5031 *Motacilla alba alba*
 5032 *Motacilla alba yarrellii*
 5050 *Motacilla cinerea*
 5100 *Motacilla citreola*
 5060 *Motacilla flava*
 5061 *Motacilla flava flava*
 5062 *Motacilla flava flavissima*
 5063 *Motacilla flava thunbergi*
 5064 *Motacilla flava feldegg*
 4870 *Muscicapa albicollis*
 4860 *Muscicapa hypoleuca*
 4890 *Muscicapa parva*
 4840 *Muscicapa striata*

 1310 *Neophron percnopterus*
 0850 *Netta rufina*
 Nettion see Anas
 3740 *Nucifraga caryocatactes*
 3741 *Nucifraga caryocatactes caryocatactes*
 3742 *Nucifraga caryocatactes macrorhynchos*
 2020 *Numenius arquata*
 2000 *Numenius phaeopus*
 3100 *Nyctea scandiaca*
 0460 *Nycticorax nycticorax*
 Nyroca see Aythya

 0270 *Oceanites oceanicus*
 0310 *Oceanodroma leucorhoa*
 4140 *Oenanthe hispanica*
 4150 *Oenanthe leucomela (pleschanka)*
 4170 *Oenanthe leucura*
 4120 *Oenanthe oenanthe*
 4121 *Oenanthe oenanthe oenanthe*
 4122 *Oenanthe oenanthe leucorhoa*
 Oidemia see Melanitta
 3660 *Oriolus oriolus*
 1800 *Otis tarda*
 1790 *Otis tetrix*
 3080 *Otus scops*

 2530 *Pagophila eburnea*
 1380 *Pandion haliaetus*
 3900 *Panurus biarmicus*
 3820 *Parus ater*
 3870 *Parus atricapillus (montanus)*
 3800 *Parus caeruleus*
 3830 *Parus cristatus*
 3790 *Parus major*

 3860 *Parus palustris*
 5270 *Passer hispaniolensis*
 5250 *Passer domesticus*
 5251 *Passer domesticus domesticus*
 5252 *Passer domesticus italiae*
 5280 *Passer montanus*
 5200 *Pastor roseus*
 1600 *Perdix perdix*
 1080 *Pernis apivorus*
 5300 *Petronia petronia*
 0360 *Phalacrocorax aristotelis*
 0350 *Phalacrocorax carbo*
 2420 *Phalaropus fulicarius*
 2430 *Phalaropus lobatus*
 1620 *Phasianus colchicus*
 2390 *Philomachus pugnax*
 0540 *Phoenicopterus ruber*
 4060 *Phoenicurus ochruros*
 4070 *Phoenicurus phoenicurus*
 4740 *Phylloscopus bonelli*
 4800 *Phylloscopus borealis*
 4730 *Phylloscopus collybita*
 4750 *Phylloscopus sibilatrix*
 4810 *Phylloscopus trochiloides*
 4720 *Phylloscopus trochilus*
 3720 *Pica pica*
 3460 *Picoides tridactylus*
 3390 *Picus canus*
 3380 *Picus viridis*
 5510 *Pinicola enucleator*
 0520 *Platalea leucorodia*
 2840 *Plautus alle*
 5790 *Plectrophenax nivalis*
 0530 *Plegadis flacinellus*
 Pluvialis see Charadrius
 0060 *Podiceps auritus*
 0080 *Podiceps cristatus*
 0090 *Podiceps griselgena*
 0070 *Podiceps nigricollis*
 0050 *Podiceps ruficollis*
 1690 *Porzana parva*
 1710 *Porzana porzana*
 1700 *Porzana pusilla*
 4090 *Pratincola rubetra*
 4100 *Pratincola torquata*
 0170 *Procellaria diomedea*
 0310 *Procellaria leucorhoa*
 0270 *Procellaria oceanicus*
 0290 *Procellaria pelagicus*
 0200 *Procellaria puffinus*
 4910 *Prunella collaris*
 4900 *Prunella modularis*
 2940 *Pterocles alchata*
 2960 *Pterocles orientalis*

3630	<i>Ptyonoprogne rupestris</i>	0340	<i>Sula bassana</i>
0170	<i>Puffinus diomedea</i>	3110	<i>Surnia ulula</i>
0200	<i>Puffinus puffinus</i>	4570	<i>Sylvia atricapilla</i>
3780	<i>Pyrhacorax graculus</i>	4600	<i>Sylvia borin</i>
3770	<i>Pyrhacorax pyrrhacorax</i>	4660	<i>Sylvia cantillans</i>
5480	<i>Pyrhula pyrrhula</i>	4610	<i>Sylvia communis</i>
5481	<i>Pyrhula pyrrhula pyrrhula</i>	4670	<i>Sylvia conspicillata</i>
5482	<i>Pyrhula pyrrhula coccinea</i>	4620	<i>Sylvia curruca</i>
5500	<i>Pyrhula erythrina</i>	4590	<i>Sylvia hortensis</i>
		4650	<i>Sylvia melanocephala</i>
1670	<i>Rallus aquaticus</i>	4580	<i>Sylvia nisoria</i>
2410	<i>Recurvirostra avosetta</i>	4690	<i>Sylvia sarda</i>
4830	<i>Regulus ignicapillus</i>	4680	<i>Sylvia undata</i>
4820	<i>Regulus regulus</i>		
3890	<i>Remiz pendulinus</i>	0710	<i>Tadorna tadorna</i>
3650	<i>Riparia riparia</i>	4050	<i>Tarsiger cyanurus</i>
2680	<i>Rissa tridactyla</i>	2160	<i>Terekia cinerea</i>
		1500	<i>Tetrao urogallus</i>
4090	<i>Saxicola rubetra</i>	1550	<i>Tetrastes bonasia</i>
4100	<i>Saxicola torquata</i>	2820	<i>Thalasseus sandvicensis</i>
	<i>Saxicola see Oenanthe</i>	3960	<i>Tichodroma muraria</i>
2230	<i>Scolopax rusticola</i>	2050	<i>Tringa erythropus</i>
5460	<i>Serinus canarius</i>	2130	<i>Tringa glareola</i>
4890	<i>Siphia parva</i>	2140	<i>Tringa hypoleuca</i>
3910	<i>Sitta europaea</i>	2090	<i>Tringa nebularia</i>
3930	<i>Sitta neumayer</i>	2110	<i>Tringa ochropus</i>
0950	<i>Somateria mollissima</i>	2080	<i>Tringa stagnatilis</i>
0960	<i>Somateria spectabilis</i>	2060	<i>Tringa totanus</i>
0830	<i>Spatula clypeata</i>	2061	<i>Tringa totanus totanus</i>
5360	<i>Spinus spinus</i>	2062	<i>Tringa totanus robusta</i>
1870	<i>Squatarola squatarola</i>	3980	<i>Troglodytes troglodytes</i>
2520	<i>Stercorarius longicaudus</i>	4260	<i>Turdus atrogularis (ruficollis)</i>
2510	<i>Stercorarius parasiticus</i>	4240	<i>Turdus merula</i>
2500	<i>Stercorarius pomarinus</i>	4300	<i>Turdus musicus</i>
2490	<i>Stercorarius skua</i>	4310	<i>Turdus philomelos (ericetorum)</i>
2800	<i>Sterna albifrons</i>	4290	<i>Turdus pilaris</i>
2770	<i>Sterna dougallii</i>	4260	<i>Turdus ruficollis (atrogularis)</i>
2750	<i>Sterna hirundo</i>	4230	<i>Turdus torquatus</i>
2730	<i>Sterna nilotica</i>	4320	<i>Turdus viscivorus</i>
2760	<i>Sterna paradisaea (macrura)</i>	3070	<i>Tyto alba</i>
2820	<i>Sterna sandvicensis</i>		
2180	<i>Streptilas interpres</i>		
3020	<i>Streptopelia decaocto</i>	3360	<i>Upupa epops</i>
3000	<i>Streptopelia turtur</i>	2880	<i>Uria aalge</i>
3140	<i>Strix aluco</i>	2890	<i>Uria grylle</i>
3160	<i>Strix nebulosa</i>	2870	<i>Uria lomvia</i>
3150	<i>Strix uralensis</i>		
5200	<i>Sturnus roseus</i>	1850	<i>Vanellus vanellus</i>
5190	<i>Sturnus unicolor</i>		
5180	<i>Sturnus vulgaris</i>	2690	<i>Xema sabini</i>

Recoveries which should not be sent to Euring

Not all recoveries should be sent to EURING. To be excluded are:

- A. *recoveries on ringing place*, when
 - 1. it concerns retraps, meaning birds caught and released on the ringing place by the person(s) who ringed the bird.
 - 2. the bird was found dead on the ringing place within a month after ringing.
- B. *recoveries from birds ringed in unnatural or unhealthy status* e.g.
 - 1. hand-reared or domesticated birds
 - 2. held in captivity longer than 10 days before ringing
 - 3. birds, that were treated surgically or physiologically
 - 4. birds carrying heavy objects, such as radio transmitters.
 - 5. wounded, sick or exhausted birds.
- C. *recoveries from displaced birds*, unless the distance transported is less than 10 km. (displaced means that the bird was caught by the ringer at a place other than where he released the bird with the ring).
- D. *recoveries with very incomplete or unreliable data*
 - 1. species unknown, or identification of species unreliable
 - 2. ringing place or ringing date unknown
 - 3. bird was recovered in captive state or at poulterer or market (unless data of capture are known).
 - 4. only the ring, or ring and leg was found (unless found in circumstances where the bird could have ended its natural life, or in circumstances indicating a reliable guide to the cause of death).