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17         Sex, Number of young in brood 7
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25         Accuracy of Ringing Date and Place 11
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40         Accuracy of Finding Date and Place 11
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Europe                                            Facing 23
British Isles                                     25
France                                            27
Spain, Portugal                                    29
Italy                                             31
U.S.S.R.                                          38
Africa                                            44

ALPHABETICAL LIST OF SPECIES AND SUBSPECIES
**FIGURE 1**

<table>
<thead>
<tr>
<th>Location</th>
<th>Leiden 208.187</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Kleine rietgans Auer Fehlaut brachyrhynchus Pink-footed Goose</td>
</tr>
<tr>
<td>Age</td>
<td>1st year</td>
</tr>
<tr>
<td>Egg Date</td>
<td>15-12-1961</td>
</tr>
<tr>
<td>Ringing Place</td>
<td>Akabinet (Friesland) Holland</td>
</tr>
<tr>
<td>Ringing Code</td>
<td>53.01 E 05.49 E</td>
</tr>
<tr>
<td>Ringing Date</td>
<td>00-10-1963</td>
</tr>
<tr>
<td>Ringing Race</td>
<td>Slimbridge (Gloucestershire) Great Britain</td>
</tr>
<tr>
<td>Ringing Code</td>
<td>51.44 E 02.25 W</td>
</tr>
<tr>
<td>Ringing Date</td>
<td>Aangerazen, kort daarna gestorven/Hit by car, died shortly afterwards (Pink-footed Goose)</td>
</tr>
<tr>
<td>Ring Code</td>
<td>ITBCN</td>
</tr>
<tr>
<td>Referees</td>
<td>Wildfowl Trust</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Scheme</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aberdeen 131, 132</td>
<td>09</td>
</tr>
<tr>
<td>Arnhem/Leiden (Holland)</td>
<td>10</td>
</tr>
<tr>
<td>Ås/Oslo Museum (Norway)</td>
<td>11</td>
</tr>
<tr>
<td>Bologna A(nco)na (Italy)</td>
<td>12</td>
</tr>
<tr>
<td>Bologna Ge(nova)</td>
<td>24</td>
</tr>
<tr>
<td>Bologna Pi(sa)</td>
<td>25</td>
</tr>
<tr>
<td>Bologna Sardo (Sardinia)</td>
<td>26</td>
</tr>
<tr>
<td>Bologna Univ. (Garda lake)</td>
<td>27</td>
</tr>
<tr>
<td>Bologna Zool.(Mesola)</td>
<td>28</td>
</tr>
<tr>
<td>Roma (Castelfusano)</td>
<td>29</td>
</tr>
<tr>
<td>Sicilia</td>
<td>30</td>
</tr>
<tr>
<td>Brussels (Belgium)</td>
<td>31</td>
</tr>
<tr>
<td>Belgique N.F.B.V.V.</td>
<td>32</td>
</tr>
<tr>
<td>Bucarest (Romania)</td>
<td>33</td>
</tr>
<tr>
<td>Budapest Orn. &amp; Mad. (Hungary)</td>
<td>34</td>
</tr>
<tr>
<td>Budapest Museum +</td>
<td>35</td>
</tr>
<tr>
<td>Copenhagen (Denmark)</td>
<td>36</td>
</tr>
<tr>
<td>Fordingbridge 133</td>
<td>37</td>
</tr>
<tr>
<td>Göteborg + 290</td>
<td>38</td>
</tr>
<tr>
<td>Helgoland (Germany)</td>
<td>39</td>
</tr>
<tr>
<td>Helsinki Museum (Finland)</td>
<td>40</td>
</tr>
<tr>
<td>Helsinki Riista</td>
<td>41</td>
</tr>
</tbody>
</table>

* when subscheme is unknown code 020
<table>
<thead>
<tr>
<th>Number</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Oradea (Romania)</td>
<td>Orielton + 134</td>
</tr>
<tr>
<td></td>
<td>Oslo Museum/Ås Ol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oslo Jeger + 2711</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oslo Univ. + 2712</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Paris (France)</td>
<td>Versailles +</td>
</tr>
<tr>
<td>19</td>
<td>Porto (Portugal)</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Praha (Czechoslovakia)</td>
<td></td>
</tr>
<tr>
<td>211</td>
<td>Prag-Lotos +</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Radolfzell/Rossitten</td>
<td></td>
</tr>
<tr>
<td>2112</td>
<td>Tschammendorf +</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Reykjavik (Iceland)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Riga + 162</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roma 027</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rossitten/Radolfzell 21</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Salzburg (Austria) +</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>San Sebastian (Spain)</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Sempach (Switzerland)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sicilia 028</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Sofia (Bulgaria)</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Stavanger (Norway)</td>
<td></td>
</tr>
<tr>
<td>2711</td>
<td>Oslo Jeger +</td>
<td></td>
</tr>
<tr>
<td>2712</td>
<td>Oslo Univ. +</td>
<td></td>
</tr>
</tbody>
</table>

28 Stockholm Museum (Sweden)
290 Göteborg +
291 Stockholm Ornls +
292 Stockholm Jäger +
293 Stockholm Skansen +
    Tartu + 163
    Tschammendorf + 2111
30 Varsovia (Poland)
    Versailles + 1811
31 Viborg Skovgaard (Denmark)
32 Zagreb (Jugoslavia)
3211 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 0000389
K 768 is in code: K000000768 Mortensen K 2754 is in code: MR K0002754
148 3498 is in code: 1480003498 Cogels 8898 is in code: CG 0008988
582 .9876 is in code: 5820009876
7308 A is in code: 0007308A
SPECIES, SUBSPECIES (columns 13 - 16)

1. Code numbers for the species are taken from the book "Nomina Avium Europaearum" 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 Europaearum" 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 insect 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 (4) after 1st year (5) 2nd year (6) after 2nd year (7) 3rd 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
                                        9 September                       00 = 2000
01 1st day of month                   0 October                          11 11 = unknown
31 31st day of month                  11 November 6 11 = 196-           (e.g. 1963 or 1964)
                                        12 December 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.

<table>
<thead>
<tr>
<th>Accuracy code</th>
<th>date to be coded</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 date accurate to the day</td>
<td>issuing date</td>
</tr>
<tr>
<td>1 (ringing date) issuing date of ring known only</td>
<td>date of report</td>
</tr>
<tr>
<td>(recovery date) date of report known only</td>
<td></td>
</tr>
<tr>
<td>2 date known within ca. 7 days</td>
<td></td>
</tr>
<tr>
<td>e.g. &quot;first week&quot;</td>
<td>4th day of month</td>
</tr>
<tr>
<td>&quot;second week&quot;</td>
<td>11th day of month</td>
</tr>
<tr>
<td>&quot;third week&quot;</td>
<td>18th day of month</td>
</tr>
<tr>
<td>&quot;fourth week&quot;</td>
<td>25th day of month</td>
</tr>
<tr>
<td>&quot;last week&quot;</td>
<td>29th day of month</td>
</tr>
<tr>
<td>3 date known within ca. 10 days</td>
<td></td>
</tr>
<tr>
<td>e.g. &quot;beginning of month&quot;</td>
<td>5th day of month</td>
</tr>
<tr>
<td>&quot;middle of month&quot;</td>
<td>15th day of month</td>
</tr>
<tr>
<td>&quot;end of month&quot;</td>
<td>25th day of month</td>
</tr>
<tr>
<td>4 date known within ca. 15 days</td>
<td></td>
</tr>
<tr>
<td>e.g. &quot;first half of month&quot;</td>
<td>8th day of month</td>
</tr>
<tr>
<td>&quot;second half of month&quot;</td>
<td>23rd day of month</td>
</tr>
<tr>
<td>5 only month and year are known</td>
<td>15th day of month</td>
</tr>
<tr>
<td>6 date known within 2-6 months</td>
<td>exact date of middle of period</td>
</tr>
<tr>
<td>e.g. &quot;January-March&quot;</td>
<td>15th February</td>
</tr>
<tr>
<td>7 season known only</td>
<td></td>
</tr>
<tr>
<td>&quot;spring&quot;</td>
<td>15th of April</td>
</tr>
<tr>
<td>&quot;summer&quot;</td>
<td>15th of July</td>
</tr>
<tr>
<td>&quot;autumn&quot;</td>
<td>15th of October</td>
</tr>
<tr>
<td>&quot;winter&quot;</td>
<td>15th of January</td>
</tr>
<tr>
<td>&quot;trapping, hunting or breeding season&quot;</td>
<td>guessed date of middle of season or if this is impossible code day and month as unknown</td>
</tr>
<tr>
<td>8 only the year is known, or date is known</td>
<td></td>
</tr>
<tr>
<td>only within a period longer than 6 months.</td>
<td>code day and month as unknown</td>
</tr>
</tbody>
</table>
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 overprint prevails over punch 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
11), northern latitude by not doing this.

4. Western longitude is indicated by crossing out inset square in squares 32 or 47 (overpunch
11), 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 11).

6. Conversion table for minutes into 1/10 degrees:

| 0' -2'   | = 0.0° |
| 3' -6'   | = 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:

| 5°02'N. 06°18'E., is coded 510 063 | 11 11 |
| 10°35'S. 17°58'W., is coded 106 180 | 11 11 |
| 08°36'N. 12°00'W., is coded 086 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 11: ring changed or added (to be used only when the bird is released again).
Column 50, punch 12: found on the sea coast (tide line, beach).
Column 51, punch 11: recovered one or more times before (excluding retraps at ringing place).
Column 51, punch 12: cause of death or injury only presumed by the finder, not known to be the case.
Column 52, punch 11: breeding bird (found with nest or feeding small young).
Column 52, punch 12: found at colony.
Column 52, punches 11 + 12: 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 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, "catturato" in Spain, "catturato" in Italy (these indications often concern shot birds)
22 trapped, netted, snared, caught with bird line 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.

8  OTHER CAUSES of death or 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 93 days
                        = 100 + 93 x 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: 10 km.
Examples: code number 000 means 0-10 km.
            code number 001 means 11-20 km.
            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: 10 km. 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
computed 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 indispensible, 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  Peninsularia: 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
10  Americas and Polar Regions
11  At sea

21
<table>
<thead>
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<th>Country</th>
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## SECONDARY DIVISION (columns 26, 27 and 41, 42)

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<th></th>
<th>British Isles (map facing p.25)</th>
<th>Mediterranean (map facing p.31)</th>
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<tbody>
<tr>
<td>0</td>
<td>Ireland</td>
<td>30 Italy, Alpine area</td>
</tr>
<tr>
<td>01</td>
<td>England, south-west (Channel Islands with France)</td>
<td>31 Italy, Po area</td>
</tr>
<tr>
<td>02</td>
<td>England, south-east</td>
<td>32 Italy, north Tyrrenian</td>
</tr>
<tr>
<td>03</td>
<td>England, east</td>
<td>33 Italy, north Adriatic</td>
</tr>
<tr>
<td>04</td>
<td>England, central</td>
<td>34 Italy, south Tyrrenian</td>
</tr>
<tr>
<td>05</td>
<td>England, north</td>
<td>35 Italy, south Adriatic</td>
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<td>06</td>
<td>Wales</td>
<td>36 Islands near Italy</td>
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<td>07</td>
<td>Scotland, south</td>
<td>37 Yugoslavia, Albania</td>
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<tr>
<td>08</td>
<td>Scotland, middle</td>
<td>38 Greece,</td>
</tr>
<tr>
<td>09</td>
<td>Scotland, north</td>
<td>39 Near East</td>
</tr>
</tbody>
</table>
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 Caribbean
11 7 Mexico and Central America
11 8 South America
11 9 Antarctica

6 Asia, Australasia (map U.S.S.R. facing p. 39)
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 Caspian Sea
12 8 Indian Ocean
12 9 Pacific Ocean
SECONDARY DIVISION: BRITISH ISLES
TERTIARY DIVISION

[...]

Ireland

000
Ulster, east (Antrim, Armagh, Down)
001
Ulster, west (Donegal, Londonderry, Tyrone)
002
Ulster, south (Cavan, Fermanagh, Monaghan)
003
Connaught, east (Leitrim, 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, Laois, Wexford)
008
Munster, north (Clare, Limerick, Tipperary)
009
Munster, south (Cork, Kerry, Waterford)

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

England, central

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

England, north

050
Cheshire
051
Cumbria
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

Scotland, south

070
Ayr
071
Berwick
072
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1. FRANCE AND SWITZERLAND

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SECONDARY DIVISION: SPAIN & PORTUGAL
## 2. IBERIA

### 2.11 Spain (Andorra and Gibraltar included) (provinces; alphabetical list on page 30)

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### 2.12 Portugal (provinces)

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SECONDARY DIVISION: ITALY
3 MEDITERRANEAN

31 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 Sienna
328 Terni
329 Viterbo

33 II North Adriatic
330 Ancona & Pesaro e Urbino
331 Ascoli Piceno & Macerata
332 Ferrara & Ravigo
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 Catanza
344 Cosenza
345 Forlì & 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 (inc. islands to the west and north)
364 Malta
365 Pantelleria
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

31
Greece (provinces)

1. Aegean Islands
2. Ionian Islands
3. Kriti (Crete)
4. Macedonia
5. Peloponnese
6. Phthiotis
7. Sterea Ellas
8. Thessalia
9. 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.

Near East

1. Cyprus
2. Israel
3. Jordan
4. Lebanon
5. Syria
6. Turkey, west of 30°0' E.L.
7. Turkey, between 30°0' and 33°0' E.L.
8. Turkey, between 33°0' and 36°0' E.L.
9. Turkey, between 36°0' and 39°0' E.L.
10. Turkey, east of 39°0' E.L.

ALPHABETICAL LIST OF THE PROVINCES OF ITALY

310 Alessandria 322 Genova 337 Ravenna
330 Ancona 324 Gorizia 347 Reggio di Calabria
350 Aquila d'Abruzzi 323 Grosseto 315 Reggio n. Emilia
320 Arezzo 324 Imperia 358 Rieti
331 Ascoli Piceno 359 Ionio 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 Chiari 306 Novara 307 Torino
304 Como 335 Padova 308 Trento
344 Cosenza 365 Pantelleria 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 Passo 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

32
4. FENNOSCANDIA

4.11 Denmark

(provisionally 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)

Aarø 403
400 Anholt
    Bornholm 410
    Falster 404
    Fanø 407
401 Fyn (Fünen)
402 Jylland (Jutland)
    Langeland 401
403 Læsø
    Lolland 404
404 Maribo
    Møn 406
    Rømø 407
    Saltoholm 406
405 Samsø
406 Sjælland (Seeland)
407 Danish North Frisian Islands
410 Bornholm

4.12 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 Oppland
    Oslo (city) 420
430 Østfold
431 Rogaland
432 Sogn og Fjordane
433 Sør-Trøndelag
434 Telemark
435 Troms
436 Vest-Agder
437 Vestfold

4.12 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
    (Angermanland) 460, 461
441 Blekinge
    Bohus 443
    (Dalarna) 442, 448
    (Dalarna) 440
    (Gävleborg) 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 Norrbotten
    Öland 471
453 Örebro
454 Östergötland
    (Skåne) 449, 451
455 Skåne
    (Småland) 446, 447, 450
456 Södermanland
    (Södermanland) 456, 457, 462
457 Stockholm (city included)
    (Upland) 457, 458, 462
458 Uppsala
459 Värmland
    (Västmanland) 459, 453
460 Västerbotten
    (Västergotland) 440, 443, 455
461 Västernorrland
462 Västmanland
    (Västmanland) 462, 453
470 Gotland
471 Öland
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<td>Oulu (Uleåborg)</td>
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<td>Turku-Pori (Åbo-Björneborg)</td>
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FENNOSCANDIA contd.
5 CENTRAL EUROPE NORTHWEST

50 The Netherlands
(provinces, separate units: all Frisian Isles, IJsselmeer
polders)

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 Rottemeroog
Remaining part

504 Drente
505 Friesland
506 Gelderland
507 Groningen
508 Limburg
509 Noord-Brabant
510 Noord-Holland
515 Overijssel
516 Utrecht
517 IJsselmeer polders (Urk and Schokland incl.)

518 Zeeland
519 Zuid-Holland

52 Belgium & Luxembourg
(provinces)

520 Antwerpen (Anvers)
521 Brabant
522 Hainaut (Hainaut)
523 Limburg (Limbourg)
524 Lüttich (Liège)
525 Luxembourg
526 Namur (Namur)
527 Oost-Vlaanderen (Flandres Orient.)
528 West-Vlaanderen (Flandres Occid.)
529 Luxembourg

5 Germany ("Bezirke"; Separate unit: Helgoland)

53 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 Nordrhein-Westfalen

540 Aachen & Köln
541 Arnsberg
542 Detmold
543 Düsseldorf
Köln 540
544 Münster

54 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

5 Baden-Württemberg

550 Nordbaden & Nordwürttemberg
551 Südbaden
552 Südwestbaden & Hohenzollern

55 Bayern

553 Oberbayern
554 Niederbayern
555 Mittelfranken
556 Oberfranken
557 Unterfranken
558 Oberpfalz
559 Schwaben

56 Mecklenburg "

560 Neubrandenburg
561 Rostock
562 Schwerin

56 Brandenburg "

563 Berlin (West & East)
564 Cottbus
565 Frankfurt (Oder)
566 Potsdam

* see next page

35
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".

---

57 ** "Sachsen Anhalt" **
570 Halle
571 Magdeburg
572 Chemnitz/Karl-Marx-Stadt
573 Dresden
574 Erfurt
575 Gera
576 Leipzig
577 Suhl

---

58 ** Poland (provinces) **
580 Bydgoszcz (Bromberg)
581 Gdańsk (Danzig)
582 Kaszalin (Köslin)
583 Olsztyń (Allenstein)
584 Poznań (Posen)
585 Szczecin (Stettin)
586 Zielona Góra (Grünberg)

---

59 ** Poland Southeast **
590 Białystok
591 Kielce
592 Kraków
593 Łódź
594 Lublin
595 Opol (Oppeln)
596 Rzeszów
597 Stalinográd (Katowice)
598 Warszawa (Warschau)
599 Wrocław (Breslau)
### CENTRAL EUROPE SOUTHEAST

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<th>City</th>
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<td>Black Sea provinces</td>
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</table>

37
7 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

70 II Baltic Area
700 Estonia
701 Kaliningrad
702 Latvia
703 Leningrad
704 Lithuania
705 Novgorod
706 Pskov & Velikiye Luki

71 II North Russia
710 Arkhangelsk (excl. Nanets N.O.,**
  Frans Josef Land and Nov. Zemlya)
711 Franz Josef Land
712 Karelia
713 Komi ASSR
714 Murmansk
715 Nanets N.O.,** (Incl. Kolguev and
  Vaygach Is.)
716 Novaya Zemlya
717 Vologda

72 II White Russia (Incl. Bryansk
  and Kaluga)
720 Brest
721 Bryansk
722 Gomel
723 Grodno
724 Kaluga
725 Minsk
726 Mogilev
  Molodechno 725
727 Smolensk
728 Vitebsk

73 II Central Russia
730 Gorky
731 Ivanovo
732 Kalinin
733 Kostroma
734 Mordovia
735 Moscow
736 Ryazan' 737 Tula
738 Vladimir
739 Yaroslavl'

74 II West of Urals
740 Bashkir
741 Chuvash
742 Kirov
743 Kuyevshev
744 Mar'
745 Orenburg
746 Perm' (Incl. Komy-Pernyak)
747 Tatar
748 Tiumn
749 Ul'yanovsk

75 II Ukraine & Moldaviya
750 Chernigov
751 Cherkassky
752 Chernovtsy
753 Dnepropetrovsk
754 Donetsk
  Drogebych 763
  Kamenets Podolsk 757
755 Kharkov
756 Kherson
757 Khmelnit'k
758 Kirovograd
759 Kiyev (Kiev)
760 Krym (Krim)
761 Lugansk
762 Lutsk
763 Lvov
764 MOLDAVIIA
765 Nikolayev
766 Odessa
767 Poltava
768 Rovno
  Stallno 754
769 Stanislav
770 Sumy
771 Ternopol'
772 Uzhgorod
773 Vinnytsa
  Volyin 762
  Voroshilovgrad 761
  Zakarpat'sk 772
774 Zaporoz'ye
775 Zhitomir

* Boundaries not shown in Times Atlas
** Boundary given in Times Atlas as uncoloured finely dotted lines.
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<td>Don and Middle Volga</td>
<td>Belgorod, Kursk, Lipetsk, Orel, Penza, Rostov, Saratov, Stalingrad</td>
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<tr>
<td>79</td>
<td>Lower Volga and Caucasus</td>
<td>Armeniya (incl. Nakhichevan), Astrakhan, Azerbaydzhan, Checheno-Ingushiya, Kabardino-Balkarinya, Karachay-Cherkessiya, Severo-Osetiya, Dagestan, Georgia (Gruziya) (incl. Abkhaziya, Adzhariya), Kalmyk, Krasnodar (incl. Adygey), Stavropol</td>
</tr>
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</table>
8 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 Atyubinsk
Akmolinsk 815
801 Alma-Ata
802 Altay (excl. Gorno-Altaysk)
803 Chimkent
804 Dzhambul
805 Gorno-Altaysk
806 Gur'yev
807 Karaganda
808 Kokchetov
809 Kustanay
810 Kzyli-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

83 II Siberia Central
830 Evenkiysk *
831 Irkutsk
832 Khakass
833 Krasnoyarsk (excl. Evenkiysk,
Novosib. Ostr. and Taymyr) *
834 Novosibirskoye Ostrava (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
Blagoveschensk
Buryat (Buryat-Mongol)
Chita
Chukotsk ** & Wrangel Islands
Commander Islands 844
Kamchatka (& Commander Islands)
Khabarovsk
Kuril Islands
Magadan (excl. Chukotsk) **
Sakhalin (excl. Kuril Islands)
Vladivostok (Primorski)
Wrangel Islands 843

85 II Asia Central
Ashkhabad (Turkmen)
Chardzhou (Turkmen)
Kara-Kalpak
Kirghizia
Mary (Turkmen)
Tadzhikistan
Tashauz (Turkmen)
Turkmenistan 850, 851, 854, 856
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
Magedan Province is formed by the rivers Omolon and Molonoda 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  Abkhazia ASSR
797  Adygey AO
795  Adzharey ASSR
815  Akmolinsk O
800  Aktyubinsk O
801  Alma-Ata O
802  Altay K
(excl. Gorno Altaysk !)
840  Amursk O
710  Arkhangelst O
(excl. Nenets and Islands !)
790  Armeniya SSR
850  Ashkadab O
791  Astrakhan O
792  Azerbaydzhani SSR
740  Bashkir ASSR
780  Belgorod O
721  Belorussiya SSR
(subdivided)
840  Blagoveshchensk O
720  Brest O
721  Bryansk O
841  Buryat (-Mongel) ASSR
851  Chardzhou O
793  Chechensk-Ingushiya ASSR
820  Chelyabinsk O
750  Cherkess O
751  Chernigov O
732  Chernovtsey (Chernovits) O
803  Chelm O
842  Chita (Chitinskaya) O
745  Chkalov O
843  Chukotka NO
741  Chuvash ASSR
844  Commander Islands, part of Kamchatka O
760  Crimea O
794  Dagestan ASSR
752  Dnepropetrovsk O
754  Donetsk O
763  Drogebych O
804  Dzhambul O
700  Estoniya, Estland SSR
830  Evenkiysk NO
711  Franz Joseph Land, part of Arkhangelsk O
795  Georgia SSR
722  Gomel O
730  Gorkiy O
805  Gorno-Altaiisk AO
723  Grodno O
795  Gruzia SSR
806  Guryev O
831  Irkutsk O
731  Ivanovo O
793  Kabardino-Balkariya ASSR
732  Kalinin O
701  Kaliningrad O
796  Kalmyk (Kalmytskaya) ASSR
724  Kaluga (Kaluzhskaya) O
844  Kamchatka O
757  Kamenets-Podolsk O
793  Karachay-Cherkess AO
807  Karaganda O
852  Kara-Kalpak ASSR
712  Karelia (Karelskaya) ASSR
901  Kazakhstan SSR (subdivided)
821  Kemerovo O
845  Khabarovsk K
832  Khakass O
822  Khants-Manch NO
755  Kharkov O
756  Kherson O
757  Kholminsk O
759  Kiev O
853  Kirgizia SSR
742  Kirov O
758  Kirovograd O
759  Kiyev O
808  Kokchetav O
844  Komandorskiye Ostrova, part of Kamchatka O
713  Kom ASSR
746  Komy-Permyak NO
733 Kestroma O
797 Krasnodar K
833 Krasnoyarsk K
(excl. Evenkiysk, Taymyr and islands)
760 Krym, Krim O
823 Kurgan O
846 Kuril Islands,
Kurilskiy Ostrov,
part of Sakhalin O
781 Kursk O
809 Kustanay O
743 Kuybyshev O
810 Kyzyl-Ord
702 Latvia, Letland SSR
703 Leningrad O
782 Lipetsk O
704 Lituania, Lithuania,
Lituauen (Lituovskaya) SSR
761 Lugansk O
762 Lutsk O
763 Lvov O
847 Magadan O
(excl. Chukotski!)
744 Mary ASSR
854 Mary O
725 Minsk O
726 Mogilev O
764 Moldavia SSR
725 Moldoveanu O
746 Molotov O
734 Mordovia
(Mordovskaya) O
735 Moskva, Moscow
(Moskovskaya) O
714 Murmansk O
790 Nakhichevan ASSR
715 Nenets NO
(excl. Nov.Zemlya and F. Joseph Land)
765 Nikolayev O
716 Novaya Zemlya,
part of Arkhangelsk O
705 Novgorod O
824 Novosibirsk O
834 Novosibirskiy Ostrov,
part of Krasnoyarsk K
766 Odessa O
825 Omsk O
745 Orenburg O
783 Orel (Orlovskaya) O
811 Pavlovsk O
784 Penza (Penzenskaya) O
746 Perm O
812 Petrovsko-Osetiya ASSR
767 Poltava O
849 Primorski K
706 Pskov O
768 Rovno (Rovenskaya) O
785 Rostov O
736 Ryazan O
848 Sakhalin O
(excl. Kuril Islands)
786 Saratov O
813 Semipalatinsk O
812 Severnaya Kazakhstann O
835 Severnaya Zemlya,
part of Krasnoyarsk K
793 Severo-Osetiya ASSR
727 Smolensk O
798 Stalingrad O
754 Stalin O
769 Stanislav O
798 Stavropol O
770 Sumy (Sumskaya) O
826 Sverdlovsk O
855 Tadjikistan SSR
814 Taldy-Kurgan O
837 Tannu-Tuva AO
787 Tambov O
856 Tashauz O
747 Tatar SSR
836 Taymyr NO
771 Ternopol O
827 Tomsk O
815 Tselinograd O
737 Tula (Tulskaya)
Turkmenistan SSR
850, 851, 854, 856
837 Tuva (Tuvenskaya) AO
828 Tyumen O
(excl. Khanti-Mansi and Yamal Nenets)
748 Udmurt ASSR
Ukraine SSR (subdivided)
749 Ulanovsk O
816 Ural'sk O
817 Ust-Kamenogorsk O
857 Uzbekistan SSR (excl.Kara-Kalpak!)
772 Uzhgorod O
706 Velikiya-Luki,
part of Pskov O
773 Vinnitsa O
728 Vitavsk O
738 Vladimir O
849 Vladivostok K
788 Volgograd O
717 Vologda O
762 Volyn O
789 Voronezh O
42
86 III Asia South West

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

88 III China, Japan, Philippines

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

89 III Further India, Indonesia, Australasia

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

901 North West 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

911 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
Portuguese Guinea 911
917 Rio de Oro
918 Sénégal (incl. Gambia)
919 Sierra Leone
Soudan Francais 915
Spanish West Africa 917
Upper Volta 912

921 Central Africa
Annobon 927
Cabinda 922
920 Cameroon *
Chad 926
921 Central African Republic
922 Congo (Brazzaville)
923 Dahomey
Fernando Po 927
924 Gabon
Moyen Congo (Middle Congo) 922
925 Niger *
926 Nigeria
Cubangui Chari 921
Principe 927
Sao Thomé 927
927 Spanish Guinea (Rio Muni) including islands in the Gulf of Guinea.
928 Tchad
929 Togo

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

941 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 Bemenda is to be included in Cameroun.
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: Begemdir, Tigré, Wollo
972 Ethiopia West: Gofjam, Illubabor, Wollega
973 Ethiopia South: Gamu-Gofa, Kaffa, Sidamo Borana
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
### 1. America & Polar Regions

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

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

### 2. At Sea

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

| 0 | Arctic Ocean |
| 1 | Atlantic Ocean: North Sea |
| 2 | Atlantic Ocean: English Channel and Irish Sea |
| 3 | Atlantic Ocean: Bay of Biscay |
| 4 | Atlantic Ocean: remaining parts |
| 5 | Baltic Sea |
| 6 | Mediterranean Sea |
| 7 | Black Sea and Caspian Sea |
| 8 | Indian Ocean |
| 9 | 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 (1938), see p.6

Acanthis see Carduelis
4910 Accipiter collaris
4920 Accipiter modularis
4930 Accipiter gentilis
4940 Accipiter nisus
4950 Accipiter agricola
4960 Accipiter arundinaceus
4970 Accipiter dumetorum
4980 Accipiter paludicola
4990 Accipiter palustris
4990 Accipiter schoenobaenus
4990 Accipiter sairipes
3880 Aegithalos caudatus
3881 Aegithalos caudatus caudatus
3882 Aegithalos caudatus rosaceus
3890 Aegolius funebris
1290 Aegypus monachus
3600 Alauda arvensis
3560 Alauda arborescens
3570 Alauda arvensis
3540 Alauda cristata
2860 Alca torda
3320 Alcedo atthis
1560 Alektoris graeca
1570 Alektoris rufo-roseus
2840 Alle alle
5110 Ampelis garrulus
0780 Anas acuta
0830 Anas clapa
0750 Anas crecca
0900 Anas penelope
0720 Anas platyrhynchos
0740 Anas querqueedula
0820 Anas strepera
0660 Anser albifrons
0590 Anser anser
0610 Anser erythropus
0620 Anser fabalis
0621 Anser fabalis fabalis
0622 Anser fabalis brachyrynchus
0623 Anser fabalis rossicus
0624 Anser fabalis hollanderi
4950 Anthus campestris
4990 Anthus cervinus
4980 Anthus Hardingi
4930 Anthus pratensis
4940 Anthus richardi

5000 Anthus spinolletta
5001 Anthus spinolletta spinolletta
5002 Anthus spinolletta petrosus
5003 Anthus spinolletta littoralis
4970 Anthus trivialis
3270 Apus apus
3260 Apus melba
1200 Aquila chrysaetos
1240 Aquila clanga
1210 Aquila heliaca
1250 Aquila pomarina
0390 Ardea cinerea
0400 Ardea purpurea
0420 Ardeola ralloides
0470 Ardea cinerea
2180 Arenaria interpres
3180 Asio flammeus
3170 Asio otus
3130 Athene noctua
0860 Aythya ferina
0870 Aythya fuligula
0890 Aythya marila
0880 Aythya nyroca
5110 Bombycilla garrulus
0480 Botaurus stellaris
0660 Branta bernicla
0661 Branta bernicla bernicla
0662 Branta bernicla hrota
0680 Branta canadensis
0670 Branta leucopsis
3090 Bubu bubo
0900 Bucephala clangula
2440 Burhinus oedicnemus
1150 Buteo buteo
1170 Buteo lagopus
1140 Buteo rufinus
1160 Buteo vulpinus
3500 Calandrella brachyacryla
3510 Calandrella rufescens
5780 Calcarius lapponicus
2240 Calidris alba
2350 Calidris alpina
2351 Calidris alpina alpina
2352 Calidris alpina schinzii
2250 Calidris canutus
2360 Callinicus ferrugineus (ferrugineus)
3630 Ptyonoprogna rupestris
0170 Puffinus domedean
0200 Puffinus puffinus
3780 Pyrrhocorax graculus
3770 Pyrrhocorax pyrrhocorax
5480 Prunella pyrrhula
5481 Prunella pyrrhula pyrrhula
5482 Prunella pyrrhula coccinea
5500 Pyrrhula erythrina

1670 Rallus aquaticus
2410 Recurvirostra avosetta
4830 Regulus ignicapillus
4820 Regulus regulus
3990 Remiz pendulinus
3650 Riparia riparia
2680 Rissa tridactyla

4090 Saxicola rubetra
4100 Saxicola torquata
Saxicola see Oenanthe

2230 Scolopax rusticola
5460 Serinus canarius
4890 Sipho parva
3910 Sitta europaea
3930 Sitta neumayer
0950 Somateria mollissima
0960 Somateria spectabilis
0830 Spatula clypeata
5360 Spinus spinus
1870 Squatarola squatarola
2520 Stercorarius longicaudus
2510 Stercorarius parasiticus
2500 Stercorarius pomarinus
2490 Stercorarius skua
2800 Sterna albifrons
2770 Sterna dougallii
2750 Sterna hirundo
2730 Sterna nilotica
2760 Sterna paradisaea (macrura)
2820 Sterna sandvicensis,
2180 Strepsilas interpres
3020 Streptopelia decaocto
3000 Streptopelia turtur
3140 Strix aluco
3160 Strix nebulosa
3150 Strix uralensis
5200 Sturnus roseus
5190 Sturnus unicolor
5180 Sturnus vulgaris

0340 Sula bassana
3110 Sunnia ulula
4570 Sylvia atricapilla
4660 Sylvia borin
4660 Sylvia cantillans
4610 Sylvia communis
4670 Sylvia conspicillata
4620 Sylvia curruca
4590 Sylvia hortensis
4650 Sylvia melanocephala
4580 Sylvia nisoria
4690 Sylvia sarda
4680 Sylvia undata

0710 Tadorna tadorna
4050 Tarsiger cyanurus
2160 Terekta cinerea
1500 Tetrao urogallus
1550 Tetraestes bonasia
2820 Thalasseus sandvicensis
3960 Tichodroma muraria
2050 Tringa erythropus
2130 Tringa glareola
2140 Tringa hypoleuca
2090 Tringa nebularia
2110 Tringa ochropus
2080 Tringa stagnatilis
2060 Tringa totonus
2061 Tringa totanus totanus
2062 Tringa totonus robusta
3980 Troglohytes troglodytes
4260 Turdus argorlus (ruficolis)
4240 Turdus merula
4300 Turdus musicus
4310 Turdus philomelos (ericetorum)
4290 Turdus pilaris
4260 Turdus ruficolis (argorulus)
4230 Turdus torquatus
4320 Turdus viscivorus
3070 Tyto alba

3360 Upupa epops
2880 Uria aalge
2890 Uria grylle
2870 Uria lomvia

1850 Vanellus vanellus

2690 Xenops sabini
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).