

# ILLUSTRATED KEY FOR BLACK-TAILED GODWITS' COLOUR RING SCHEMES



N. CIDRAES-VIEIRA

VERSION 6 – APRIL 2015

## COVER PHOTOS

R6BYBY	Dutch	Photo: Jurgen Rotteveel 2010
R8-YR	Icelandic	Photo: Les Foster 2012
BN-O//B	Scottish	Photo: Henk Hin 2013
ROG-RNR	Kent, UK	Photo: Russell Sherriff 2014
RL-O=	Northern Ireland	Photo: Jonathan Clark 2013
NY-OfY	French	Photo: Bryan Wright 2012

## ACKNOWLEDGEMENTS.

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To D. Raes for including a link to the key on the *European Colour-ring Birding* website.

## CONTACT

New schemes, updates, corrections and new information on schemes please send it to [limosalimosa\(you know what to put here\)sapo.pt](mailto:limosalimosa(you know what to put here)sapo.pt)

## CONTENTS

Preface	3
Notes About Sights	4
How to Interpret the Drawings	5
Reporting Sights	6
Where to send the observations	6
Colour codes	6
Systems of representing rings combinations	7
Key to Ringed Black-tailed Godwits	10
Index of schemes categories	10
Schemes	11

## PREFACE

This is the sixth edition of the *Illustrated key for Black-tailed Godwit colour ring schemes*. The information was updated, new schemes added, and names recoded – unique country schemes and centrally coordinated schemes were renamed with the two-letter country codes.

As on previous versions, schemes without confirmed information were not included. They will be included as soon as information about them became available from ringers and scheme coordinators.

This version includes some schemes with no ringed birds from programs expected to begin running on 2015.

Schemes with birds ringed only on XX century were removed, with exception of RSPB1 that is known to still have at least one bird alive.

## NOTES ABOUT SIGHTS

(Things to have in mind when seeing a ringed bird)

*Discoloured rings* – some colours can change with time or became dirty.

White is the most problematic colour, as it easily turns yellowish, or even reddish. On other hand, light-coloured rings can become whitish.

Some colours are difficult to distinguish, specially with poor light conditions.

The most easily confusing colours are:

dark green - dark blue - black;

yellow - orange – red;

light blue (pale) - light green (lime)

*Ring size & shape* - It's important to **pay attention on the size and shape of rings**. Most observers don't care about it, but in some cases this is important to scheme identification.

*Flags* - From the wrong angle, flags-rings can appear as a normal colour ring (more easily than thought!)

*Engraved rings* – some rings have one or more letters and/or numbers on it

*Tarsometatarsus rings* - below ankle (“knee”) rings are difficult to see, specially small dark rings.

*Lost rings* –not common, but some cases are known to happen.

Don't forget! Bird's left leg it's only on your left side if you are looking the bird from back

## HOW TO INTERPRET THE DRAWINGS

Each drawing indicates all possible combination of rings to the represented scheme. Figure 1 explains a hypothetical scheme.

Grey arrows – indicates rings that could have alternative positions and indicates the possible positions it can be.

A Multicolour ring represents a ring position that could receive several colours. The multicolour ring is painted with all possible colours for that particular position.

On drawings' right side is showing all possible colours to all positions. Metal ring is only present on right side if included as part of the scheme.

L and R refer to Left and Right bird's legs. When both L & R are on both legs, the leg on drawing's left side could be either the bird's left or bird's right leg and the same for the leg on drawing's right side.

Drawings were done on scale when information about ring size is available (drawings without the 5 mm scale symbol aren't on scale).

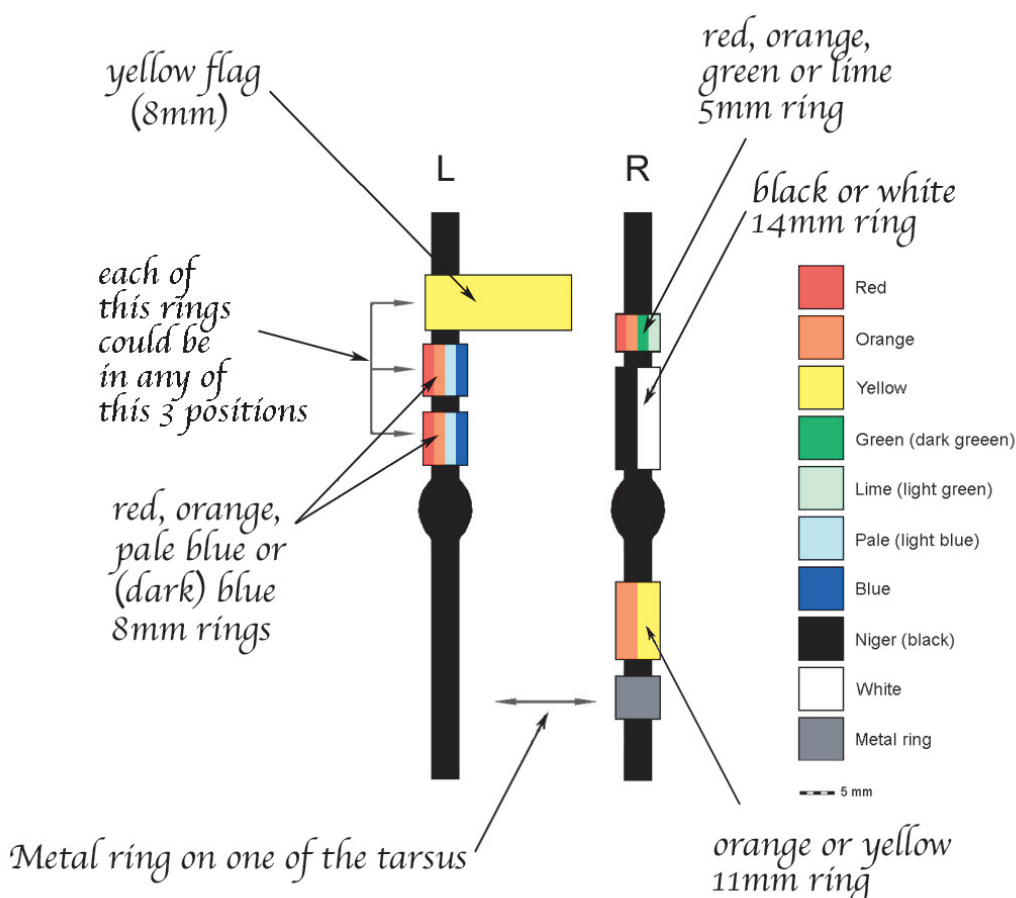


Figure 1 – drawing explanation based on a hypothetical scheme

## REPORTING SIGHTS

### WHERE TO SEND OBSERVATIONS

Information on sights should be sent to the **ringer** and to the **National Ringing Centre** of the country where the bird was observed. If you don't know which ringer should be contacted, you can send it to the [International Wader Study Group](#) (IWSG) or to the [EURING](#).

### COLOUR CODES

Colours are represented by letters. Most people use the coding from EURING but others codes are also used, which unfortunately can result in mismatches. Table below lists the codes for the 9 most commonly used colours and 5 barely used colours. Grey can be light or dark but there's no independent code.

COLOUR	INTERNATIONAL (EURING)	FRENCH
<b>RED</b>	R	R
<b>ORANGE</b>	O	O
<b>YELLOW</b>	Y	J
<b>GREEN (DARK GREEN)</b>	G	V
<b>LIME (LIGHT GREEN)</b>	L	P
<b>PALE (LIGHT BLUE)</b>	P	
<b>BLUE (DARK BLUE)</b>	B	B
<b>BLACK (NIGER)</b>	N	N
WHITE	W	WH
<b>DARK PINK (CARMIN)</b>	C	
<b>PURPLE (VIOLET)</b>	V	M
<b>LIGHT PINK</b>	K	
<b>BROWN (UMBER)</b>	U	
<b>GREY (SILVER)</b>	S	

## SYSTEMS OF REPRESENTING RINGS COMBINATIONS

There are several ways to write ring combinations. This section described some of the ways used to report Black-tailed godwit sights.

### Absolute positions

Figure 2 shows absolute positions of rings. This system is mainly used on databases but it could help to understand the filling of webforms and by what we mean by Above Knee<sup>1</sup> and Below Knee. In this case, and in opposition to all other systems, rings are read down-up

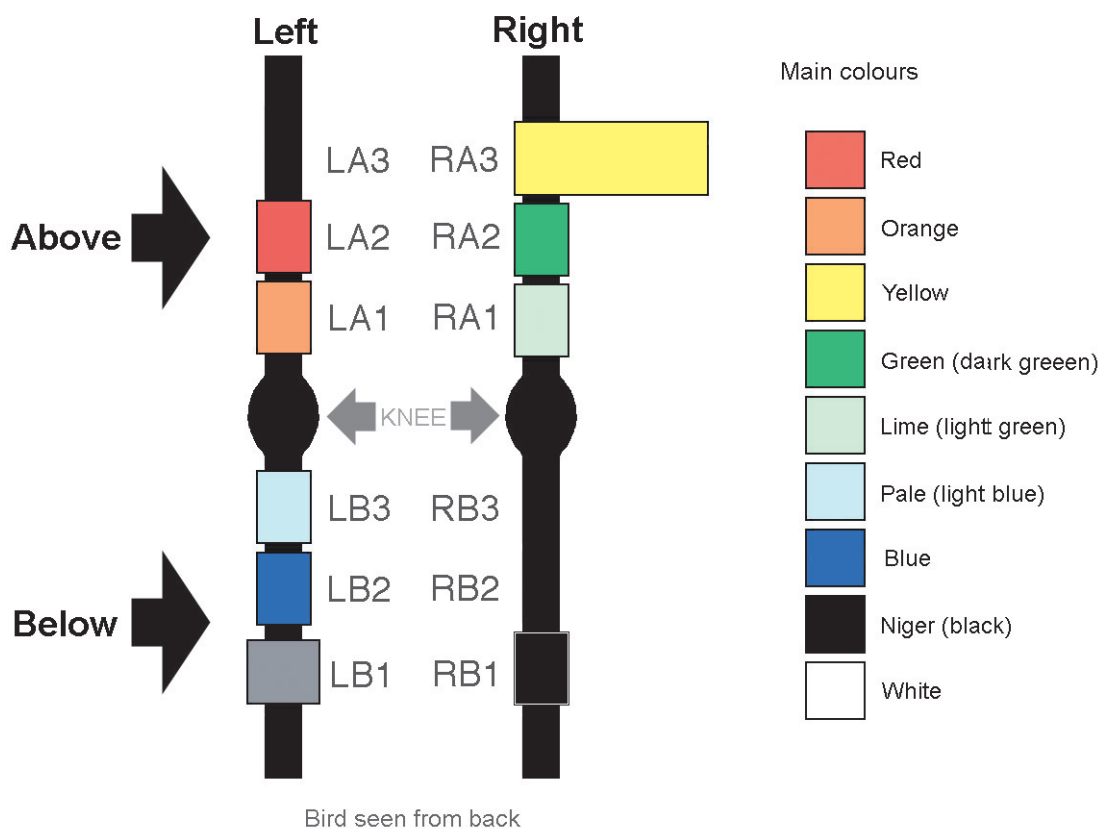


Figure 2 – Absolute positions explanation based on a hypothetical scheme. Each leg has 3 possible positions on tibia (above knee) and 3 on tarsus (below knee), even not all positions must effectively have rings. Positions are numbered upwards and include metal rings. In this example there's only one ring on right tarsus, on position RB1, and 2 on left tibia, Orange on LA1 and Red on LA2, while left tarsus and right tibia have all 3 positions full.

<sup>1</sup> It's usually referred as knee or ankle but has no exact match on human's anatomy. It splits the leg in *tibiatarus* (commonly referred as tibia) and *tarsometatarsus* (commonly referred as tarsus)



## IWSG system

Always begin by left leg rings. Rings on left and right legs separated by a plus (+) or a minus (-)

Above and below knee rings are separated by a slash<sup>2</sup> (/)

Each ring position separated by a comma (,)

Rings written from top to down

*See figure 3 for examples*

## Simplified system

Same as before but with no commas. Usually rings on left and right legs separated by a minus (-)

*See figure 3 for examples*

## Simplified computer friendly system

Same IWSG, without commas, always a minus (-) for legs and a plus (+), instead of slash (/), to knee

*See figure 3 for examples*

## RUG<sup>3</sup> system

Only applies to the RUG schemes (Netherlands). First letter is the flag colour followed by a number that gives flag position. Then all other 4 rings from downwards, first left then right leg.

*See figure 3 for examples*

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<sup>2</sup> Some people uses two slashes (//)

<sup>3</sup> University of Groningen, Netherlands

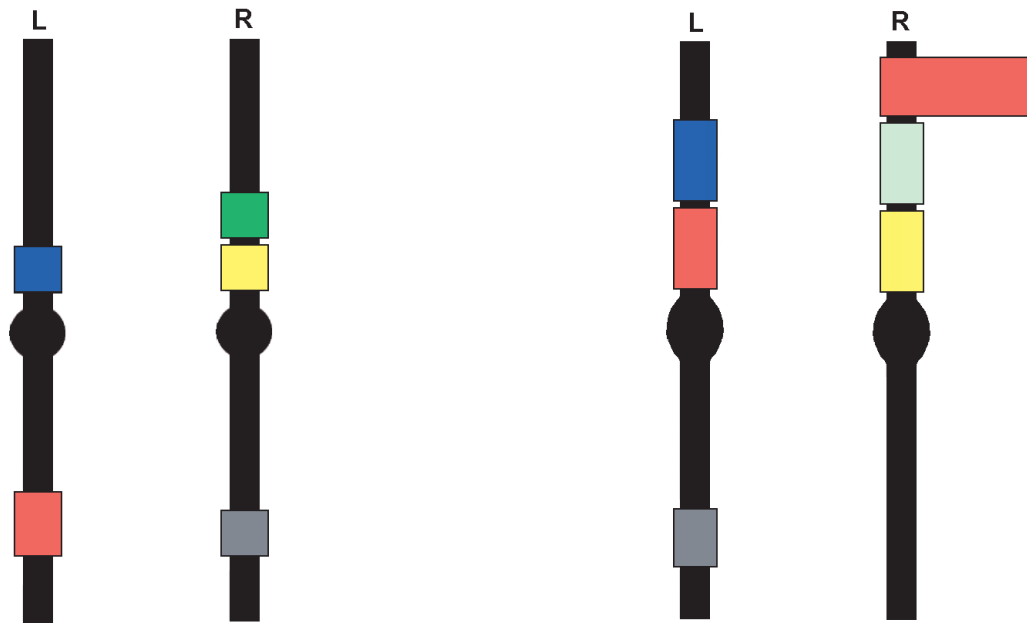


Figure 3 – examples on ring combinations. On left, example 1, from Pott's The Solent scheme. On right, example 2, a red flag (R2) from RUG's scheme.

#### IWSG/EURING

example 1 - „B/„R-,G,Y/„,m (or „B/„R+,G,Y/„,m)

example 2 - „B,R/„,m-Rf,L,Y/„,, (or „B,R/„,m+Rf,L,Y/„,,)

#### Simplified system

example 1 - B/R-GY/m

example 2 - BR/m-RfLY

#### Simplified computer friendly system

example 1 - B+R-GY+m

example 2 - BR+m-RfLY

#### RUG system



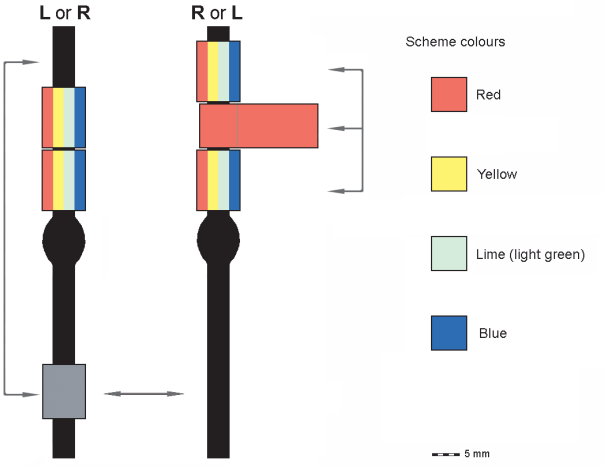




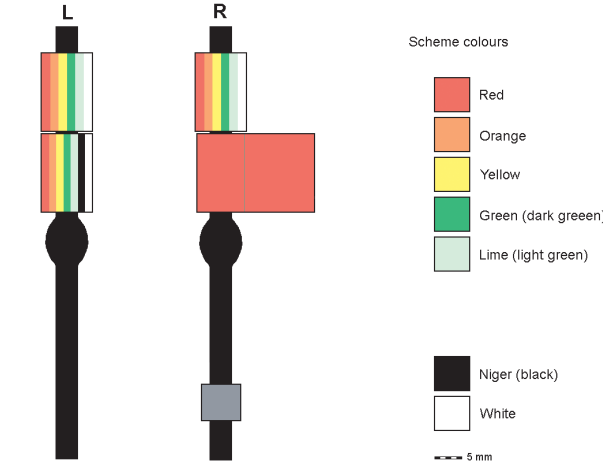







Example 2 - R2BRLY

# KEY TO RINGED BLACK-TAILED GODWITS



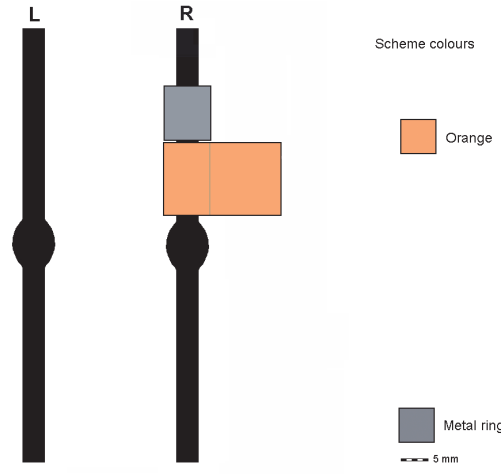
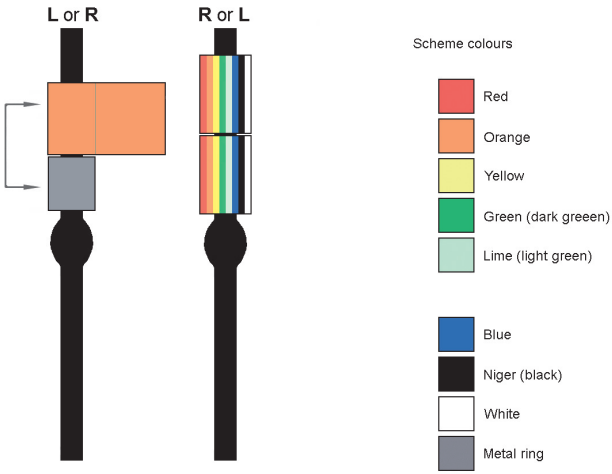
	Page
1. WITH FLAGS	11
1.1 RED	11
1.2 ORANGE	12
1.3 YELLOW	13
1.4 (DARK) GREEN	14
1.5 LIME (LIGHT GREEN)	15
1.6 (DARK) BLUE	16
1.7 WHITE	16
1.8 BLACK	17
2. NO FLAG, WITH ENGRAVED RINGS	18
(WITH LETTERS, NUMBERS, LINES OR OTHER SYMBOLS)	
2.1 JUST ENGRAVED RINGS (& METAL RING)	18
2.2 WITH OTHER COLOUR RINGS	19
3. NO FLAG, NO ENGRAVED	23
(BY NUMBER OF RINGS)	
3.1 - ONE OR TWO RINGS (+ METAL RING)	23
3.2 - THREE RINGS (+ METAL RING)	24
3.3 - FOUR RINGS (+ METAL RING)	25
3.3.1 - WITHOUT C-RINGS ON TARSUS	25
3.3.2 - WITH C-RINGS ON TARSUS	27
3.4 - FIVE RINGS (+ METAL RING)	29
3.5 - SIX RINGS (+ METAL RING)	30



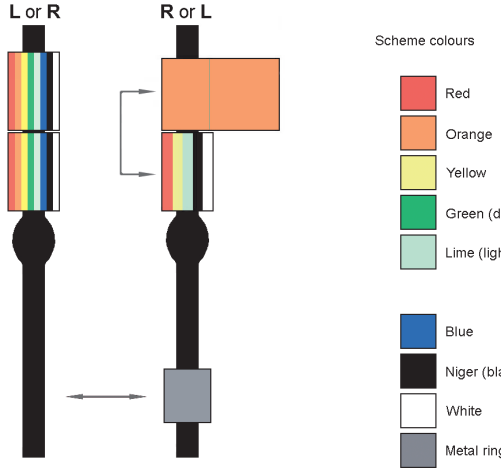
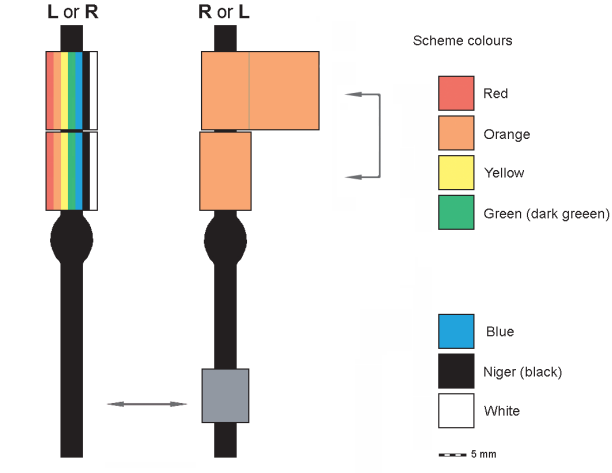
# 1. WITH FLAG

## 1.1 - RED FLAG



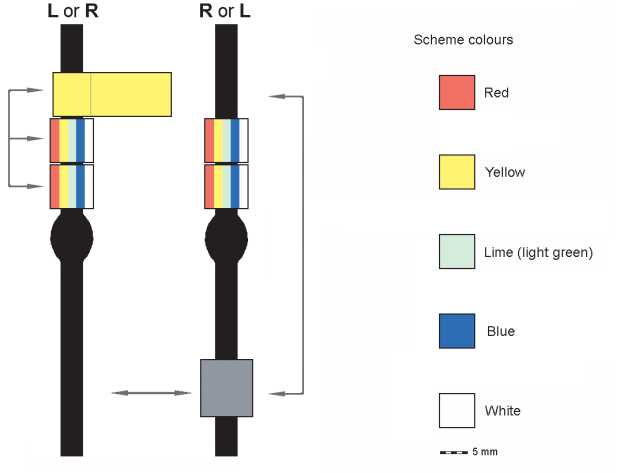





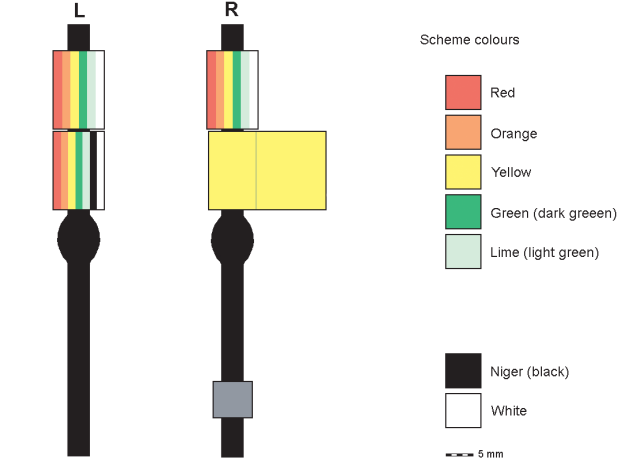







 <p><b>NL2 (R1-R6)</b>          Jos Hooijmeijer - <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>          Location: Nederland (Outside SW Friesland)          Breeding adults &amp; chicks          Subspecies: <i>limosa</i>          2004-          See note on Y flag</p>	 <p><b>TG2</b>          Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>          Location: Iceland          Chicks          Subspecies: <i>islandica</i>          1999-2009          Ring height: 10 mm or 14 mm          Drawing: 14 mm (for 10 mm see L flag)</p>
 <p>L or R</p> <p>R or L</p> <p>Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Yellow</li> <li> Lime (light green)</li> <li> Blue</li> </ul> <p>5 mm</p>	 <p>L</p> <p>R</p> <p>Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Orange</li> <li> Yellow</li> <li> Green (dark green)</li> <li> Lime (light green)</li> <li> Niger (black)</li> <li> White</li> </ul> <p>5 mm</p>

1.2 - ORANGE FLAG



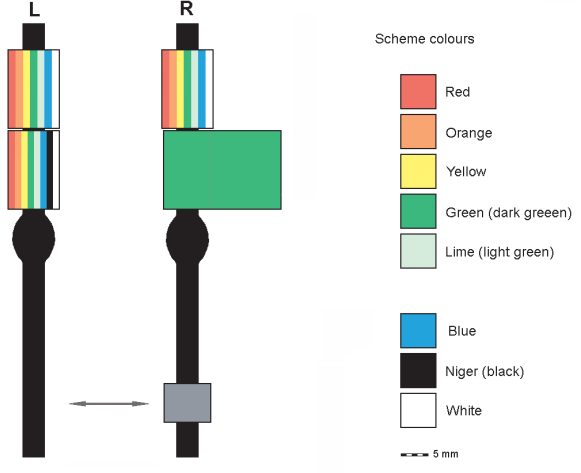






<p> <b>PD0</b>                  Philippe Delaporte – <a href="mailto:vincent.lelong@lpo.fr">vincent.lelong@lpo.fr</a>                  Location: Moeze Oléron - France                  Migrating birds                  Subspecies: <i>islandica</i>                  2002</p>	<p> <b>PD1</b>                  Philippe Delaporte – <a href="mailto:vincent.lelong@lpo.fr">vincent.lelong@lpo.fr</a>                  Location: Moeze Oléron - France                  Migrating birds                  Subspecies: <i>islandica</i> (&amp; <i>limosa</i>)                  2004-2008                  Never two rings same colour on same leg</p>
	


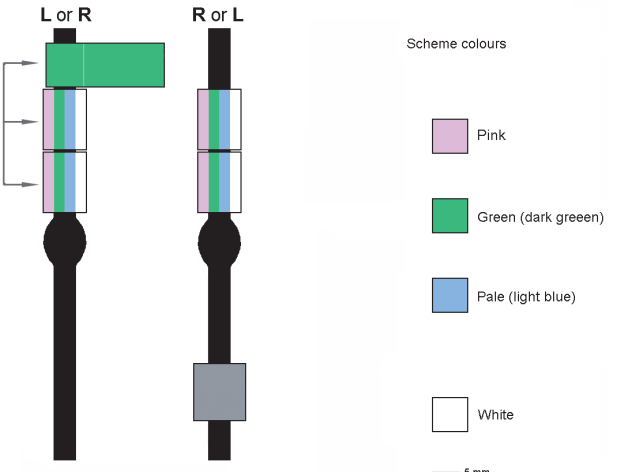




<p> <b>PD2</b>                  Philippe Delaporte – <a href="mailto:vincent.lelong@lpo.fr">vincent.lelong@lpo.fr</a>                  Location: France - Moeze Oléron &amp; Golf de Morbihan (OfR)                  Migrating birds                  Subspecies: <i>islandica</i> (&amp; <i>limosa</i>)                  2007-                  Never two rings same colour on same leg</p>	<p> <b>FR1</b>                  Frédéric Robin – <a href="mailto:frobin02@gmail.com">frobin02@gmail.com</a>                  Location: Marais Breton – France                  Breeding birds                  Subspecies: <i>limosa</i>                  2012-                  Ring height: 15 mm                  Never two rings same colour on not flagged leg</p>
	

### 1.3 – YELLOW FLAG



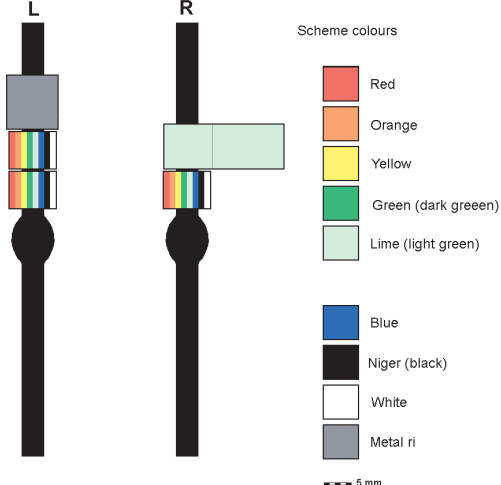









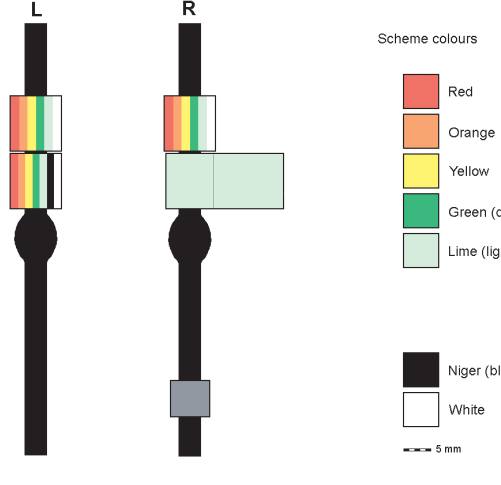









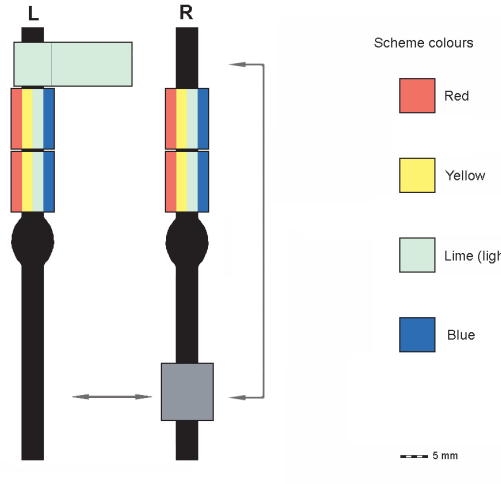




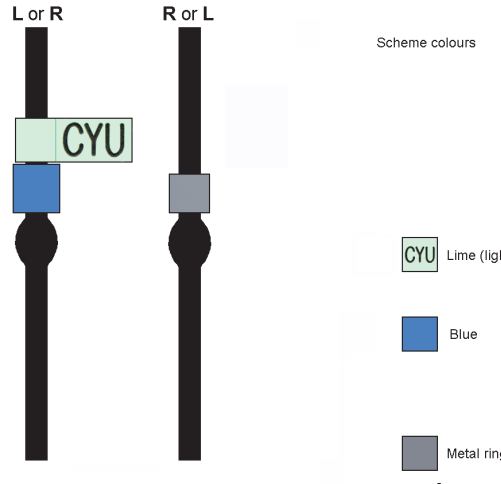



<p> <b>NL1 (Y1-Y6)</b>            Jos Hooijmeijer – <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>            Location: Friesland – Nederland            Nesting adults &amp; chicks            Subspecies: <i>limosa</i>            2004 –            Ring height: 8 mm (2004/05) or 11 mm (2006 -)  <i>Drawing: 8 mm (for 11 mm see L, R or B flag drawings)</i>  <i>Note: white only with flag on top left position</i>  <i>Note: lime never with flag on top left</i></p>	<p> <b>TG10</b>            Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>            Location: Iceland            Chicks            Subspecies: <i>islandica</i>            2012-            Ring height: 14 mm</p>
 <p><b>L or R</b>      <b>R or L</b></p> <p>Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Yellow</li> <li> Lime (light green)</li> <li> Blue</li> <li> White</li> </ul> <p>--- 5 mm</p>	 <p><b>L</b>      <b>R</b></p> <p>Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Orange</li> <li> Yellow</li> <li> Green (dark green)</li> <li> Lime (light green)</li> <li> Niger (black)</li> <li> White</li> </ul> <p>--- 5 mm</p>

1.4 – (DARK) GREEN FLAG

<p> <b>PT1</b>          José Alves – <a href="mailto:j.alves@uea.ac.uk">j.alves@uea.ac.uk</a>          Location: Tagus Estuary – Portugal          Adults on migration/wintering          Subspecies: <i>islandica</i> (&amp; <i>limosa</i>)          2006 –2015          Ring height: 14 mm</p>	<p> <b>NL7</b>          Jos Hooijmeijer – <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>          Location: Nederland          Nesting chicks          Subspecies: <i>limosa</i>          2012-          Ring height: 10 &amp; 8 mm</p>
 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Orange</li> <li> Yellow</li> <li> Green (dark green)</li> <li> Lime (light green)</li> <li> Blue</li> <li> Niger (black)</li> <li> White</li> </ul> <p style="text-align: center;">--- 5 mm</p>	 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> Green (dark green)</li> </ul> <p style="text-align: center;">--- 5 mm</p>


<p> <b>NL8 (G1-G6)</b>          Jos Hooijmeijer – <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>          Location: Nederland (Outside SW Friesland)          Breeding adults &amp; chicks          Subspecies: <i>limosa</i>          (2015 –)          Ring height: 11 mm</p>
 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> Pink</li> <li> Green (dark green)</li> <li> Pale (light blue)</li> <li> White</li> </ul> <p style="text-align: center;">--- 5 mm</p>

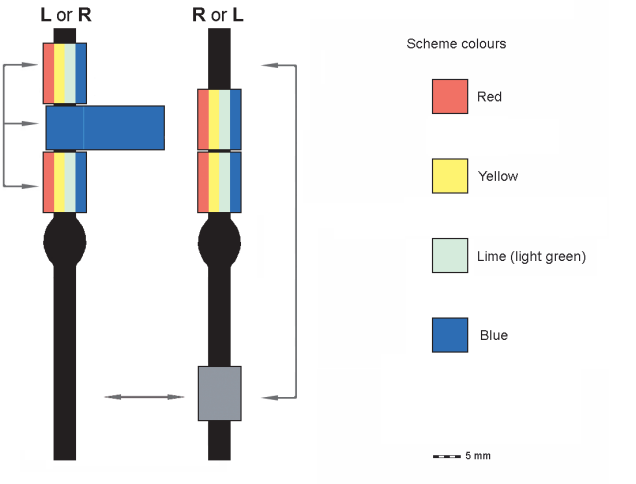
### 1.5 – LIME (LIGHT GREEN) FLAG

<p> <b>JM1</b>            José M. Abad – <a href="mailto:abadjm@unex.es">abadjm@unex.es</a>            Location: Extremadura – España            Adults on migration/wintering            Subspecies: <i>limosa</i> &amp; <i>islandica</i>            2005 –2013            Ring height: 7 mm</p>	<p> <b>TG1</b>            Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>            Location: Iceland            Chicks            Subspecies: <i>islandica</i>            2005 – 2006            Ring height: 10 mm or 14 mm            Drawing: 10 mm (for 14 mm see R flag)</p>
 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Orange</li> <li> Yellow</li> <li> Green (dark green)</li> <li> Lime (light green)</li> <li> Blue</li> <li> Niger (black)</li> <li> White</li> <li> Metal ri</li> </ul> <p style="text-align: center;">--- 5 mm</p>	 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Orange</li> <li> Yellow</li> <li> Green (dark green)</li> <li> Lime (light green)</li> <li> Niger (black)</li> <li> White</li> </ul> <p style="text-align: center;">--- 5 mm</p>
<p> <b>NL3 (L1)</b>            Jos Hooijmeijer – <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>            Location: Nederland, Portugal &amp; Spain            Adults on migration/wintering            Subspecies: <i>limosa</i> (<i>islandica</i>)            2007 –            Ring height: 11 mm</p>	<p> <b>NL6</b>            Jos Hooijmeijer – <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>            Location: Nederland            Nesting chicks            Subspecies: <i>limosa</i>            2009–            Ring height: 8 mm</p>
 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> Red</li> <li> Yellow</li> <li> Lime (light green)</li> <li> Blue</li> </ul> <p style="text-align: center;">--- 5 mm</p>	 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li> CYU Lime (light green)</li> <li> Blue</li> <li> Metal ring</li> </ul> <p style="text-align: center;">--- 5 mm</p>




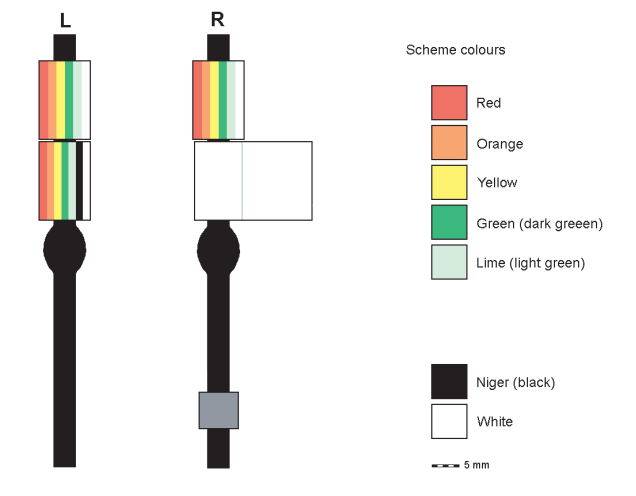
1.6 – (DARK) BLUE FLAG


 **NL4**  
 Jos Hooijmeijer – [j.c.hooijmeijer@rug.nl](mailto:j.c.hooijmeijer@rug.nl)  
 Location: Friesland – Nederland  
 Nesting adults  
 Subspecies: *limosa*  
 2012 –  
 Ring height: 11 mm

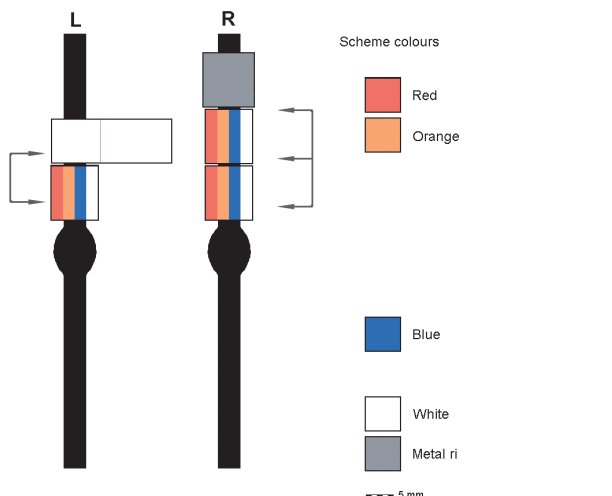


1.7 – WHITE FLAG

 **TG9**  
 Tomas Gunnarsson [icelandwader@gmail.com](mailto:icelandwader@gmail.com)  
 Location: Iceland  
 Chicks (also a few adults)  
 Subspecies: *islandica*  
 2010 – 2012  
 Ring height: 14 mm



 **JM2**  
 José Gómez-Pantoja – [abadjm@unex.es](mailto:abadjm@unex.es)  
 Location: Extremadura – España  
 Adults on migration/wintering Subspecies:  
*limosa* & *islandica*  
 2013 –  
 Ring height: 10 mm, flag 8 mm



## 1.8 – BLACK FLAG



DT1

David Turner – [davidt2851@gmail.com](mailto:davidt2851@gmail.com)

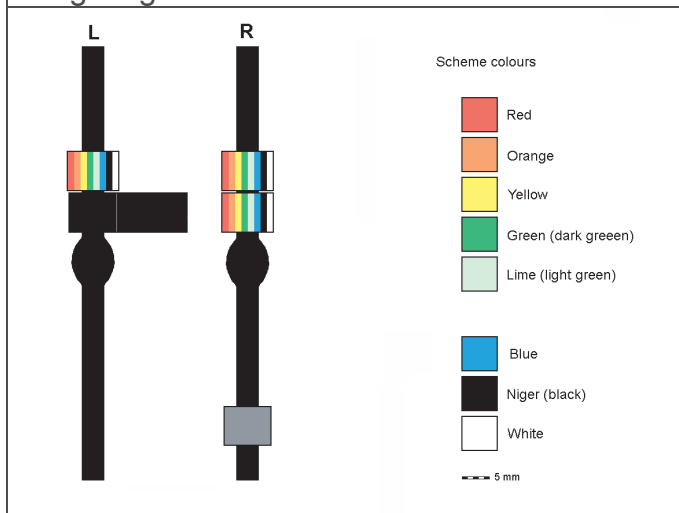
Location: UK

Adults

Subspecies: *islandica* & *limosa*



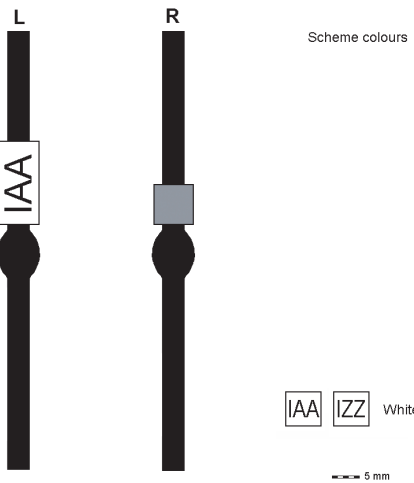
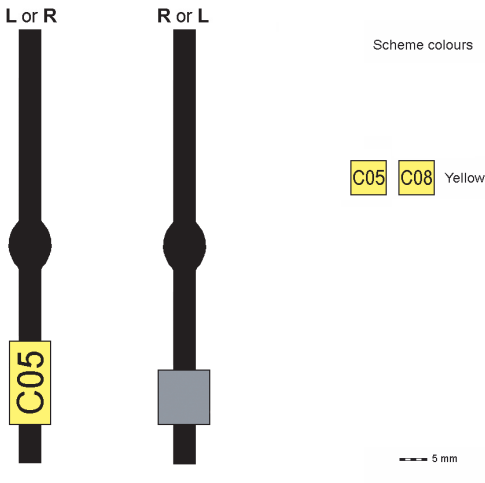
(2015-)


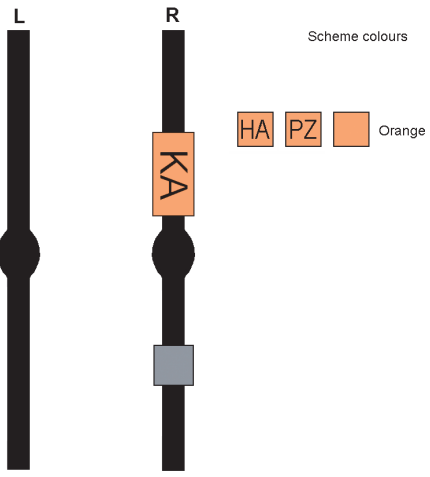
Ring height:




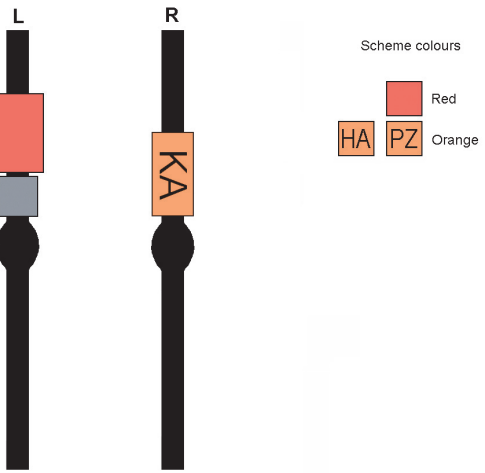

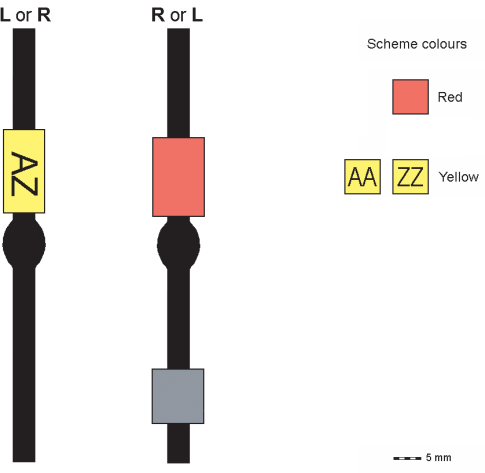

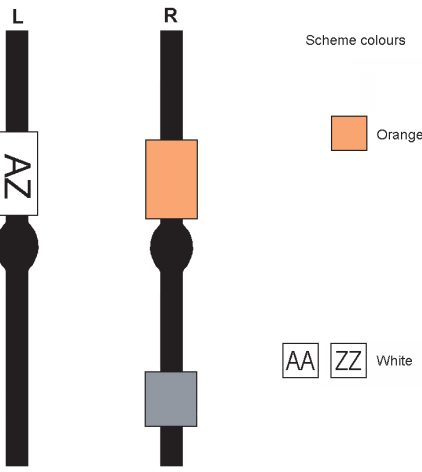

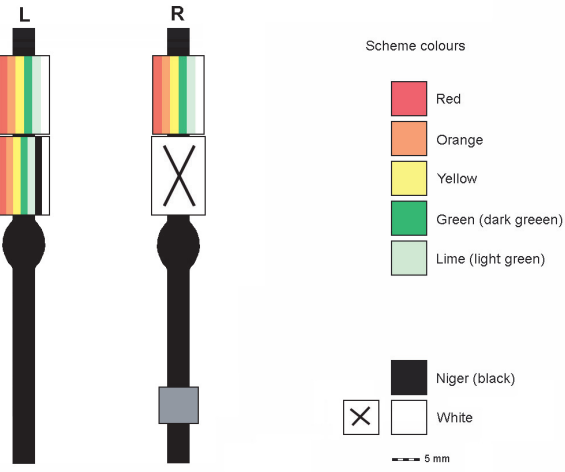
## 2. WITHOUT FLAG, WITH ENGRAVED RINGS

### 2.1 – ONLY ENGRAVED RINGS (& METAL)

<p> <b>MP1</b>          Marco Pavia – <a href="mailto:marco.pavia@unito.it">marco.pavia@unito.it</a>          Sergio Fasano – <a href="mailto:sgfasano@gmail.com">sgfasano@gmail.com</a>          Location: Piedmont/ Vercelli – Italie          Chicks          Subspecies: <i>limosa</i>          2004-          Ring height: 15 mm</p>	<p> <b>F11</b>          Jari Valkama – <a href="mailto:jari.valkama@helsinki.fi">jari.valkama@helsinki.fi</a>          Location: Finland          Chicks          Subspecies: <i>limosa</i>          2004          Ring height:</p>
	

<p> <b>BY1</b>          Pavel Pinchuk – <a href="mailto:ppinchuk@mail.ru">ppinchuk@mail.ru</a>          Location: Belarus            Subspecies: <i>limosa</i>          2008-2013          Ring height:</p>


## 2.2 WITH ENGRAVED RINGS + OTHER COLOUR RINGS (& METAL)

<p> <b>BY2</b>            Natalia Karlionova – <a href="mailto:karlionova@tut.by">karlionova@tut.by</a>            Location: Belarus</p> <p>Subspecies: <i>limosa</i>            (2015-)            Ring height:</p> 	<p> <b>FI2</b>            Jari Valkama – <a href="mailto:jari.valkama@helsinki.fi">jari.valkama@helsinki.fi</a>            Location: Finland            Adults &amp; chicks            Subspecies: <i>limosa</i>            2014-            Ring height:</p> 
<p> <b>SE1</b>            Richard Ottvall - <a href="mailto:richard.ottvall@gmail.com">richard.ottvall@gmail.com</a>            Location: Sweden            Breeding adults &amp; chicks            Subspecies: <i>limosa</i>            (2015-)            Ring height:</p> 	<p> <b>TG3</b>            Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>            Location: Iceland            Adults on passage            Subspecies: <i>islandica</i>            2002 – 2012            Ring height: 14 mm</p> 



TG8

Tomas Gunnarsson [icelandwader@gmail.com](mailto:icelandwader@gmail.com)

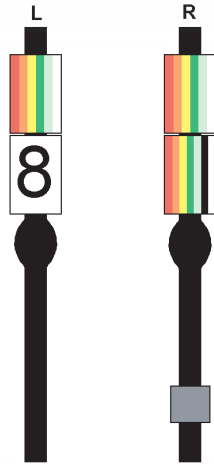
Location: Iceland

Adults

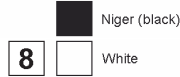
Subspecies: *islandica*

2010 -

Ring height: 14 mm



Scheme colours



5 mm



TG11

Tomas Gunnarsson [icelandwader@gmail.com](mailto:icelandwader@gmail.com)

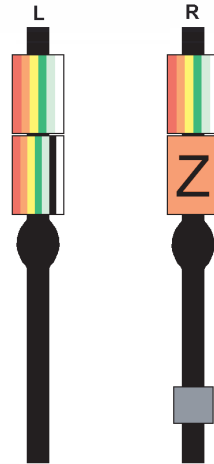
Location: Iceland

Adults

Subspecies: *islandica*

2012 -

Ring height: 14 mm



Scheme colours



5 mm



PT2

José Alves – [j.alves@uea.ac.uk](mailto:j.alves@uea.ac.uk)

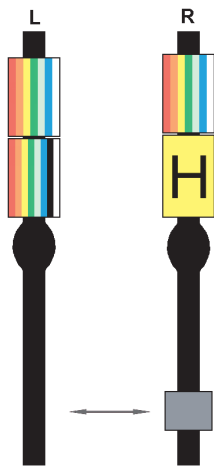
Location: Tagus Estuary – Portugal

Adults on migration/wintering

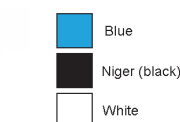
Subspecies: *islandica* (& *limosa*)

2015 -

Ring height: 14 mm



Scheme colours



5 mm



RSPB5

Jennifer Smart – [Jennifer.Smart@rspb.org.uk](mailto:Jennifer.Smart@rspb.org.uk)

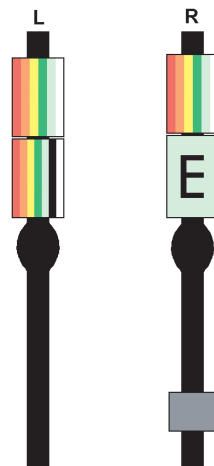
Location: UK

Breeding birds

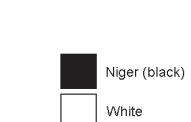
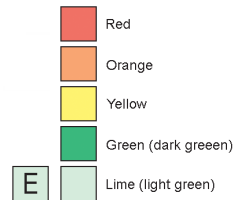
Subspecies: *limosa*

(2015 -)



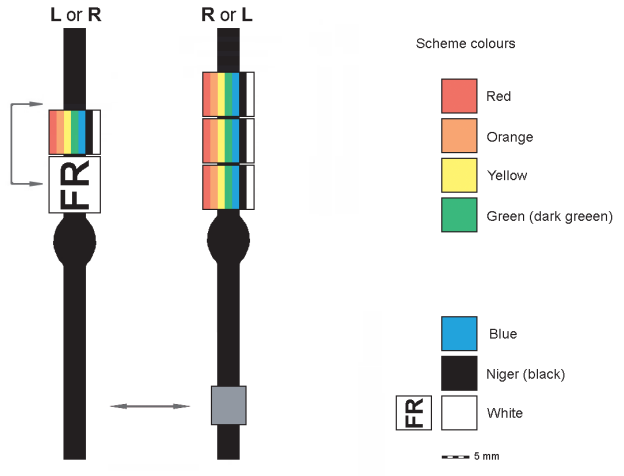
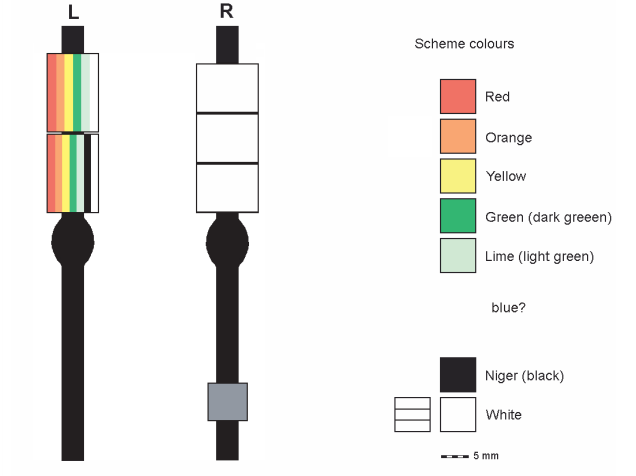
Ring height: 14 mm



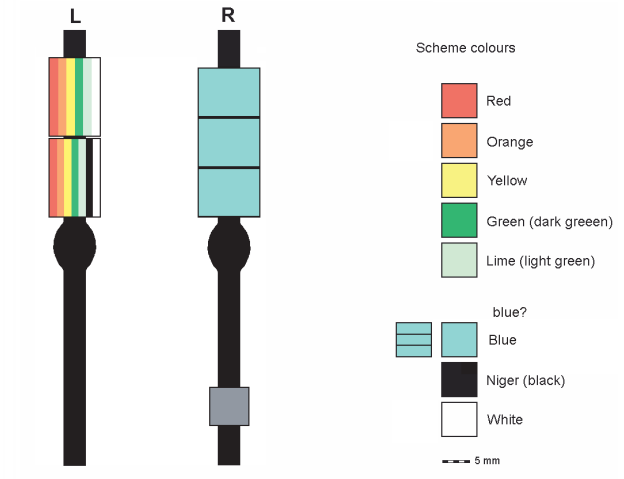
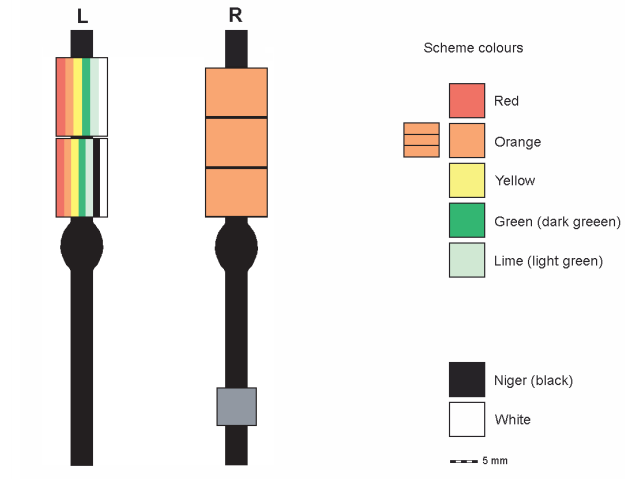


Scheme colours



5 mm

<p> <b>FR2</b> Frédéric Robin – <a href="mailto:frobin02@gmail.com">frobin02@gmail.com</a> Location: Marais Breton – France Breeding adults &amp; chicks Subspecies: <i>limosa</i> (2015-) Ring height: 8 &amp; 10 mm <i>Neighbor rings never have the same color</i></p>	<p> <b>PP2W</b> Pete Potts – <a href="mailto:pmpotts@tiscali.co.uk">pmpotts@tiscali.co.uk</a> Location: Cork Harbour – Ireland Non-breeding adults Subspecies: <i>islandica</i> 2002- Ring height: 14 &amp; 30 mm</p>
	

<p> <b>PP2B</b> Pete Potts – <a href="mailto:pmpotts@tiscali.co.uk">pmpotts@tiscali.co.uk</a> Location: North Ireland - UK Non-breeding adults Subspecies: <i>islandica</i> 2008- Ring height: 14 &amp; 30 mm</p>	<p> <b>PP2O</b> Pete Potts – <a href="mailto:pmpotts@tiscali.co.uk">pmpotts@tiscali.co.uk</a> Location: North Ireland - UK Non-breeding adults Subspecies: <i>islandica</i> 2011- Ring height: 14 &amp; 30 mm</p>
	



PP1

Pete Potts – [pmpotts@tiscali.co.uk](mailto:pmpotts@tiscali.co.uk)

Location: The Solent – UK

Non-breeding adults

Subspecies: *islandica*

2001-

Ring height: 14 (colour) & 30 mm



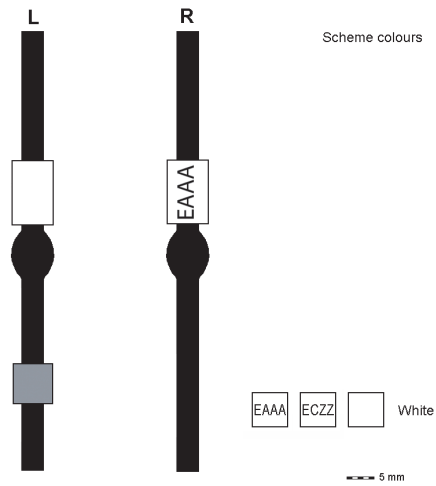
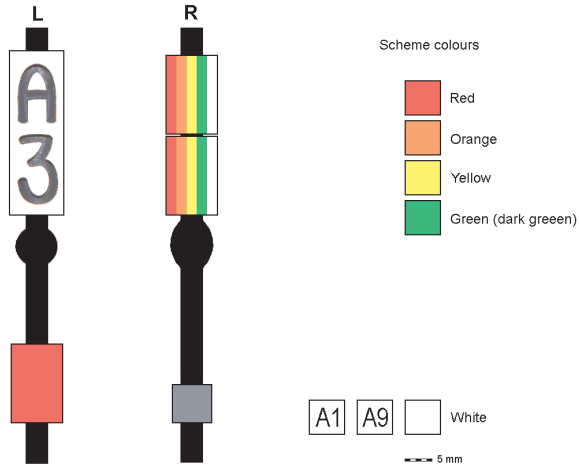
INBO1

Geert Spanoghe - [geert.spanoghe@inbo.be](mailto:geert.spanoghe@inbo.be)

Location: East-Flanders - Belgium



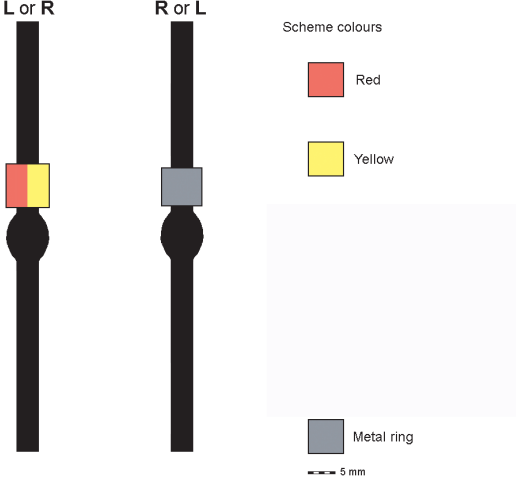
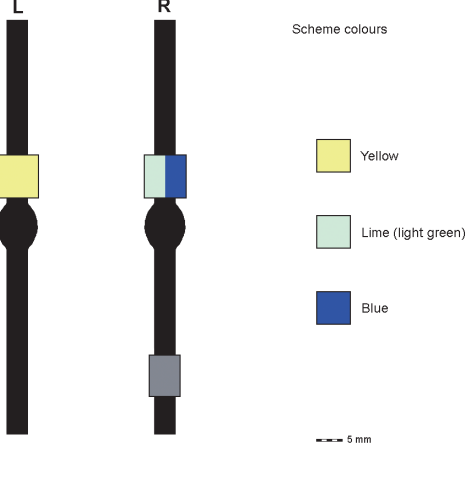
Subspecies:

2013-





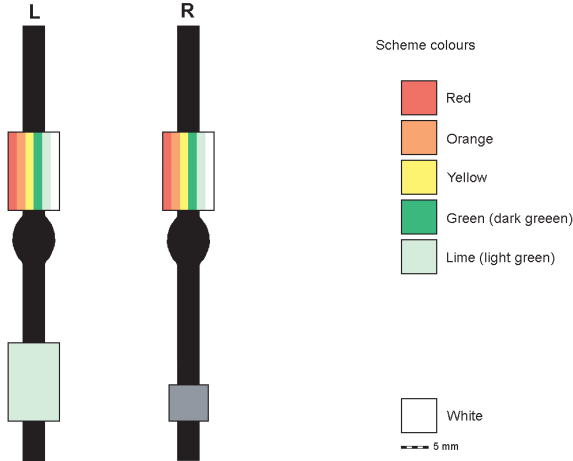
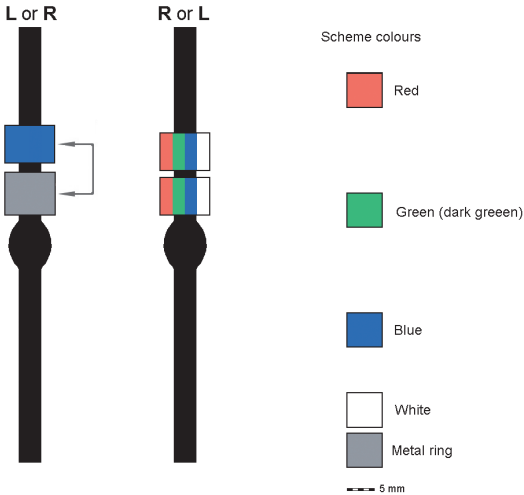
### 3. NO FLAG & NO ENGRAVED RINGS (BY NUMBER OF RINGS)

#### 3.1 – ONE OR TWO RINGS (+ METAL RING)



<p> <b>NL5</b>          Jos Hooijmeijer - <a href="mailto:j.c.hooijmeijer@rug.nl">j.c.hooijmeijer@rug.nl</a>          Location: Nederland          Chicks          Subspecies: <i>limosa</i>          2006 (Y), 2007 (R)          Ring height: 8 mm  <i>Not an individual marker (group marker)</i></p>	<p> <b>RSPB1</b>          RSPB - <a href="mailto:sabine.schmitt@rspb.org.uk">sabine.schmitt@rspb.org.uk</a>          Location: UK          Chicks          Subspecies: <i>limosa</i>          1997          Ring height: 7-10 mm(+) (depending on the size of the chicks)  <i>Drawing: 7 mm</i>  <i>Not an individual marker (group marker)</i></p>
<p><b>L or R</b>      <b>R or L</b></p>  <p>Scheme colours</p> <ul style="list-style-type: none"> <li>Red</li> <li>Yellow</li> <li>Metal ring</li> </ul> <p>--- 5 mm</p>	<p><b>L</b>      <b>R</b></p>  <p>Scheme colours</p> <ul style="list-style-type: none"> <li>Yellow</li> <li>Lime (light green)</li> <li>Blue</li> </ul> <p>--- 5 mm</p>

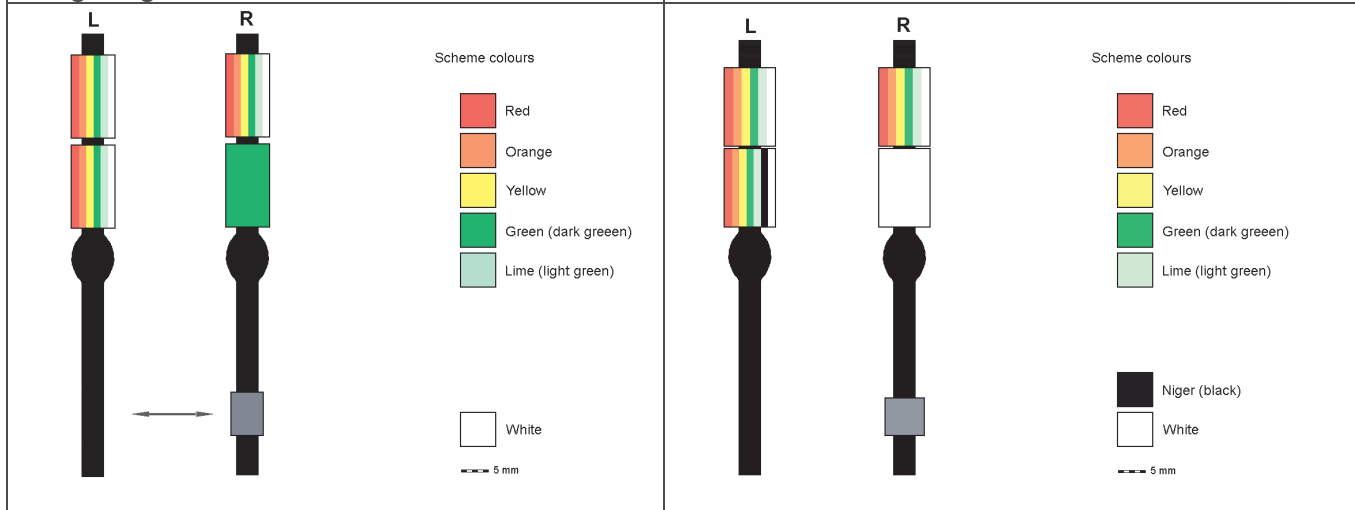


### 3.2 – THREE RINGS (+ METAL RING)

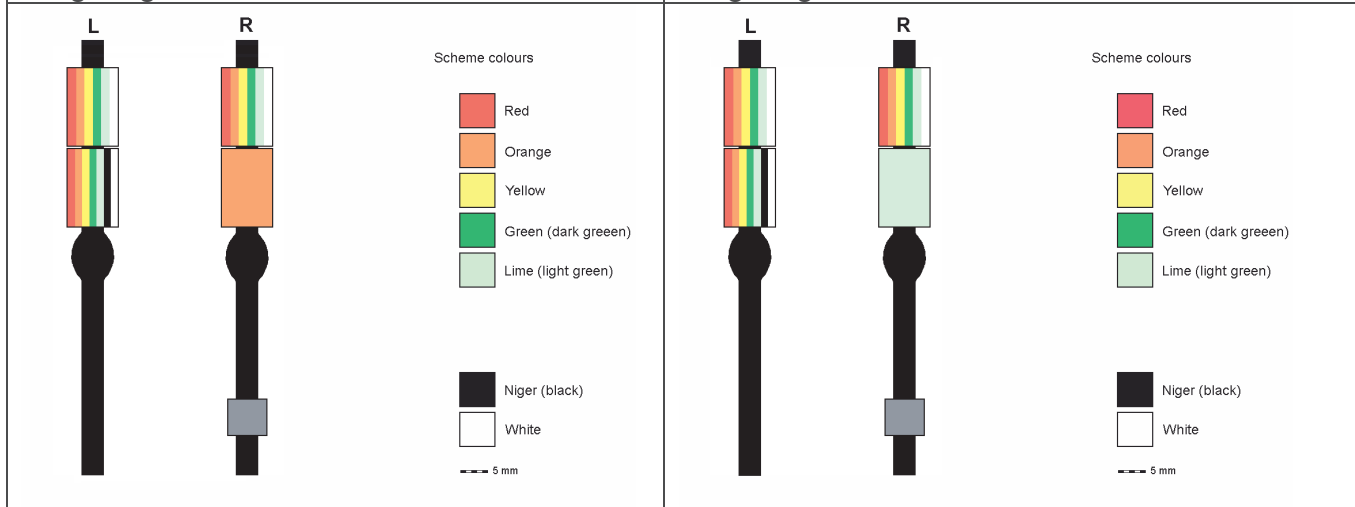
<p> <b>TG4</b>  Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>  Location: Iceland  Chicks  Subspecies: <i>islandica</i>  2002-2003  Ring height: 15 mm  <i>Brood marked birds</i></p>	<p> <b>SEO1</b>  Álvaro Díaz - <a href="mailto:alvaro.diaz.pastor@gmail.com">alvaro.diaz.pastor@gmail.com</a>  Location: Cantabria – España  Subspecies:</p>
	

3.3 – FOUR COLOUR RINGS (+ METAL RING)  
 3.3.1 - FOUR C-RINGS WITHOUT C-RINGS ON TARSUS

<p> <b>GE1</b>          Guillaume Gélinaud -  <a href="mailto:guillaume.gelinaud@bretagne-vivante.org">guillaume.gelinaud@bretagne-vivante.org</a>          Location: Golf de Morbihan - France          Non-nesting adults          Subspecies: <i>islandica (limosa)</i>          2001 -          Ring height: 15 mm</p>	<p> <b>JG2</b>          Jennifer Gill - <a href="mailto:j.gill@uea.ac.uk">j.gill@uea.ac.uk</a>          Location: Wash &amp; Breydon Water - UK          Non-breeding adults and juveniles          Subspecies: <i>islandica</i>          1995 -          Ring height: 15 mm</p>
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<p> <b>TG5</b>          Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>          Location: Iceland          Breeding          Subspecies: <i>islandica</i>          2000 -          Ring height: 14 mm</p>	<p> <b>TG6</b>          Tomas Gunnarsson <a href="mailto:icelandwader@gmail.com">icelandwader@gmail.com</a>          Location: Iceland          Breeding          Subspecies: <i>islandica</i>          2000 - 2009          Ring height: 14 mm</p>
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TG7

Tomas Gunnarsson [icelandwader@gmail.com](mailto:icelandwader@gmail.com)

Location: Iceland

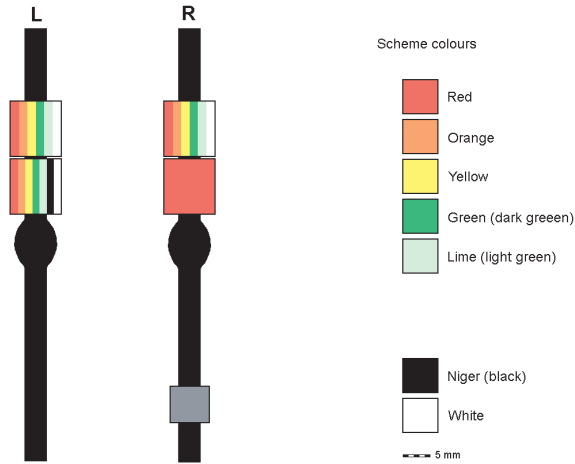
Chicks

Subspecies: *islandica*

1999-2005

Ring height: 8, 10 or 14 mm

Drawing: 10 mm



TG13

Tomas Gunnarsson [icelandwader@gmail.com](mailto:icelandwader@gmail.com)

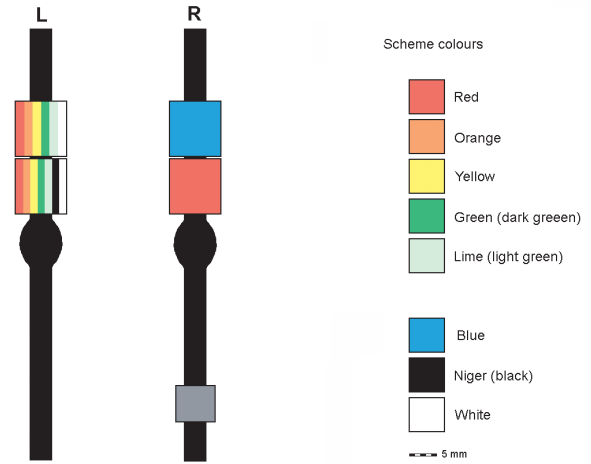
Location: Iceland

Subspecies: *islandica*

2013-

Ring height: 10 or 14 mm

Drawing: 10 mm



TG12

Tomas Gunnarsson [icelandwader@gmail.com](mailto:icelandwader@gmail.com)

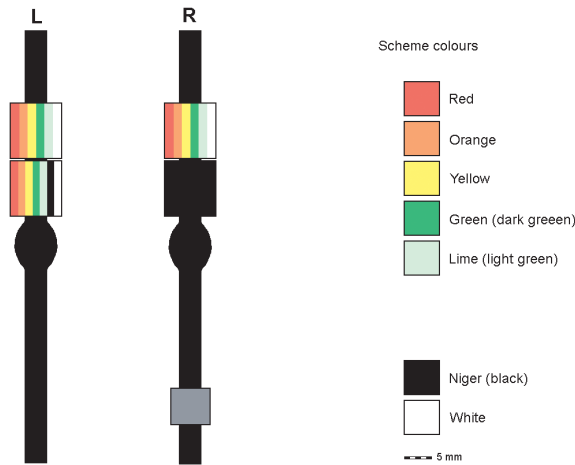
Location: Iceland

Subspecies: *islandica*

2013-

Ring height: 10 or 14 mm

Drawing: 10 mm



RSPB2

RSPB - [sabine.schmitt@rspb.org.uk](mailto:sabine.schmitt@rspb.org.uk)

Location: UK

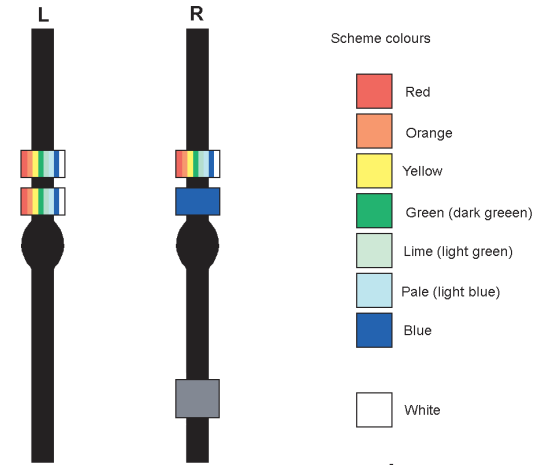
Chicks

Subspecies: *limosa*



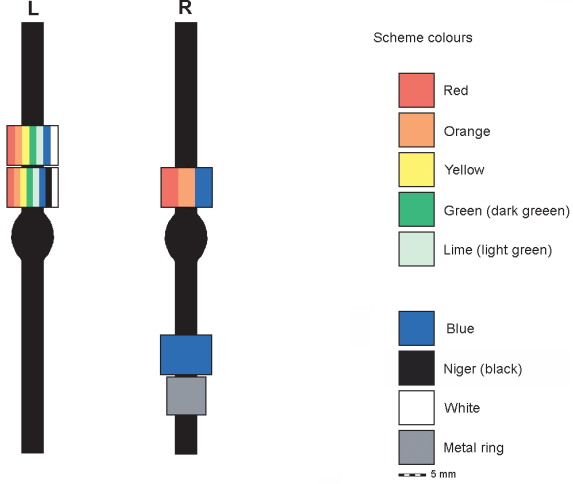
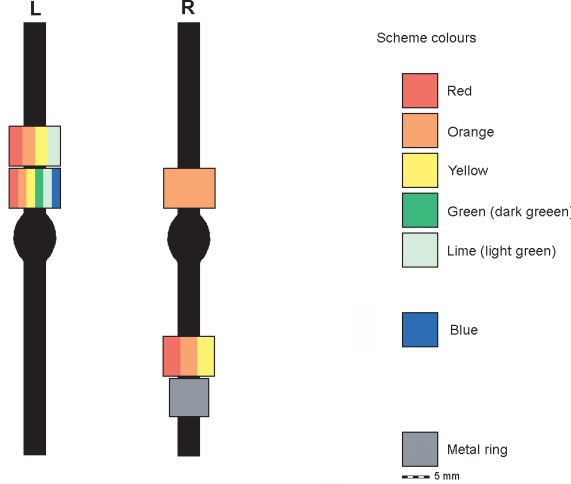


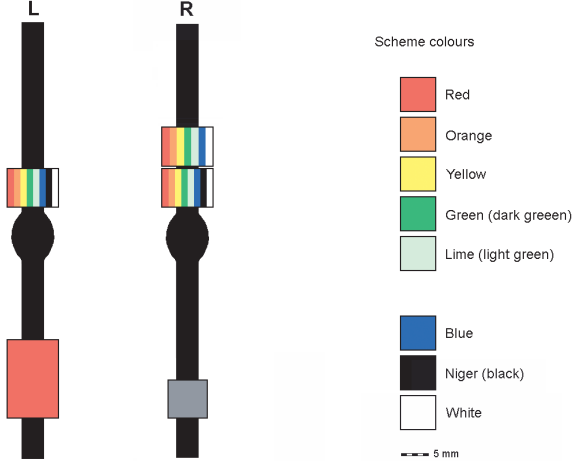
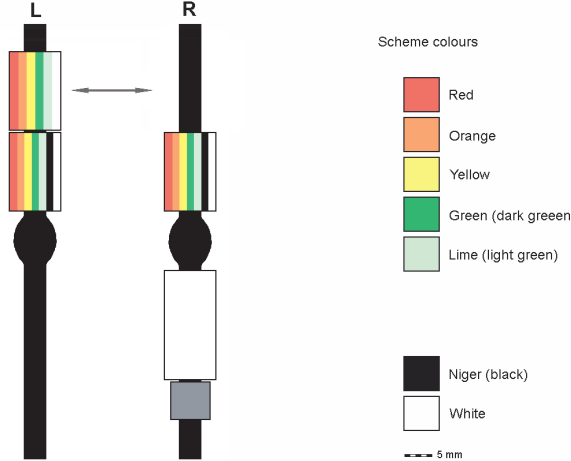
1998-2003

Ring height: 4/5 or 6/7 mm rings

Drawing: 5 mm



3.3.2 – FOUR C-RINGS WITH C-RINGS ON TARSUS

<p> <b>SCO1</b>                      Raymond Duncan – <a href="mailto:raymond@waxwing.fsnet.co.uk">raymond@waxwing.fsnet.co.uk</a>                      Location: Montrose &amp; Ythan Estuary, Scotland – UK                      Adults on migration                      Subspecies: 2007-                      Ring height: 7 &amp; 14 mm</p>	<p> <b>TRG1</b>                      Les Hatton – <a href="mailto:les@edenecology.co.uk">les@edenecology.co.uk</a>                      Location: Eden Estuary Fife, Scotland – UK                      Adults on migration                      Subspecies: <i>islandica</i>                      1991-                      Ring height: 7 mm</p>
 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> Red</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border: 1px solid black; margin-right: 5px;"></span> Orange</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> Yellow</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></span> Green (dark green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightgreen; border: 1px solid black; margin-right: 5px;"></span> Lime (light green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> Blue</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></span> Niger (black)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: white; border: 1px solid black; margin-right: 5px;"></span> White</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></span> Metal ring</li> </ul> <p style="text-align: center;">--- 5 mm</p>	 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> Red</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border: 1px solid black; margin-right: 5px;"></span> Orange</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> Yellow</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></span> Green (dark green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightgreen; border: 1px solid black; margin-right: 5px;"></span> Lime (light green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> Blue</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: gray; border: 1px solid black; margin-right: 5px;"></span> Metal ring</li> </ul> <p style="text-align: center;">--- 5 mm</p>
<p> <b>PP3</b>                      Pete Potts – <a href="mailto:pmpotts@tiscali.co.uk">pmpotts@tiscali.co.uk</a>                      Location: The Solent – UK                      Non-breeding adults                      Subspecies: <i>islandica</i>                      1992-                      Ring height: 14 and 7 mm</p>	<p> <b>JG3</b>                      Jennifer Gill – <a href="mailto:j.gill@uea.ac.uk">j.gill@uea.ac.uk</a>                      Location: Wash &amp; Breydon Water, UK                      Non-breeding adults and juveniles ringed in autumn or winter                      Subspecies: <i>islandica</i>                      1995 –                      Ring height: 15 mm. Tarsus W ring: 15mm or 20 mm                      W ring often discoloured to yellow</p>
 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> Red</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border: 1px solid black; margin-right: 5px;"></span> Orange</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> Yellow</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></span> Green (dark green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightgreen; border: 1px solid black; margin-right: 5px;"></span> Lime (light green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> Blue</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></span> Niger (black)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: white; border: 1px solid black; margin-right: 5px;"></span> White</li> </ul> <p style="text-align: center;">--- 5 mm</p>	 <p style="text-align: center;">Scheme colours</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> Red</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border: 1px solid black; margin-right: 5px;"></span> Orange</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> Yellow</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></span> Green (dark green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightgreen; border: 1px solid black; margin-right: 5px;"></span> Lime (light green)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></span> Niger (black)</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: white; border: 1px solid black; margin-right: 5px;"></span> White</li> </ul> <p style="text-align: center;">--- 5 mm</p>



AC1

Antonio Cordeiro -

[antoniofcordeiro@hotmail.com](mailto:antoniofcordeiro@hotmail.com)

[anelamento.andurinha@gmail.com](mailto:anelamento.andurinha@gmail.com)

Location: Galicia, Spain

Non-breeding adults

Subspecies:

2011 -

Ring height:

L





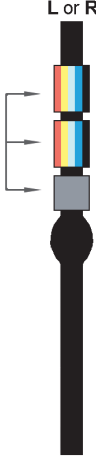

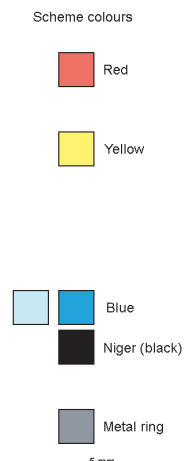


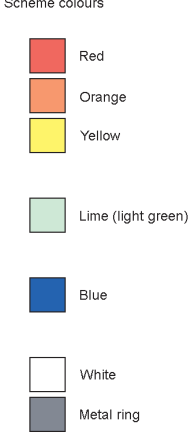
R



Scheme colours



### 3.5 – FIVE RINGS (+ METAL RING)

<p> <b>DE2</b>          Johannes Melter –  <a href="mailto:j.melter@bio-consult-os.de">j.melter@bio-consult-os.de</a>          Location: Deutschland          Breeding adults &amp; chicks          Subspecies: <i>limosa</i>          1972-          Ring height: 9 mm</p>	<p> <b>MR1</b>          Maja Roodbergen –  <a href="mailto:Maja.Roodbergen@sovon.nl">Maja.Roodbergen@sovon.nl</a>          Location: Nederland          Breeding adults and chicks          Subspecies: <i>limosa (islandica)</i>          2002-2005          Ring height: 7, 10 or 14 mm rings          Drawing: 10 mm</p>
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>L or R</p>  </div> <div style="text-align: center;"> <p>R or L</p>  </div> <div style="text-align: center;"> <p>Scheme colours</p>  <p>5 mm</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>L</p>  </div> <div style="text-align: center;"> <p>R</p>  </div> <div style="text-align: center;"> <p>Scheme colours</p>  </div> </div>

### 3.6 – SIX RINGS (+ METAL RING)



PP4

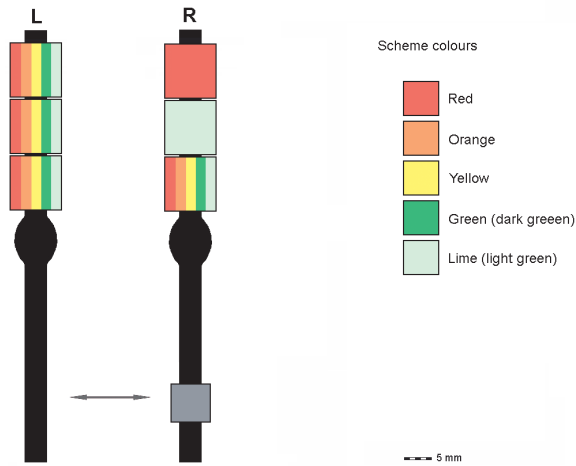
Pete Potts - [pmpotts@tiscali.co.uk](mailto:pmpotts@tiscali.co.uk)

Location: Medway Estuary – UK  
adults

Subspecies: *islandica*

2005-

Ring height: 10 mm



PP5

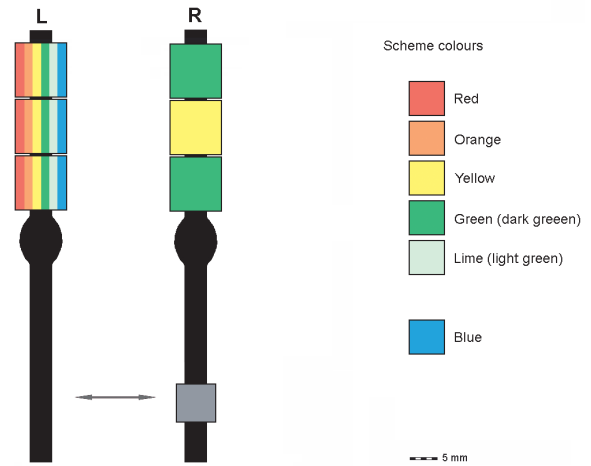
Pete Potts - [pmpotts@tiscali.co.uk](mailto:pmpotts@tiscali.co.uk)

Location: Suffolk – UK  
Non-breeding adults

Subspecies: *islandica*

2007-

Ring height: 10 mm



PP6

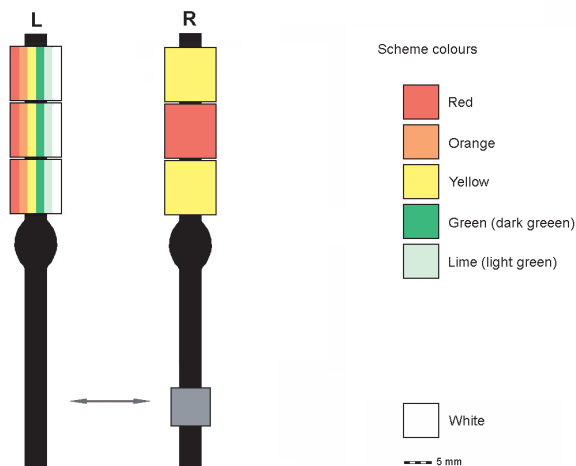
Pete Potts - [pmpotts@tiscali.co.uk](mailto:pmpotts@tiscali.co.uk)

Location: Devon - UK  
Non-breeding adults

Subspecies: *islandica*

2008-

Ring height: 10 mm



PP7

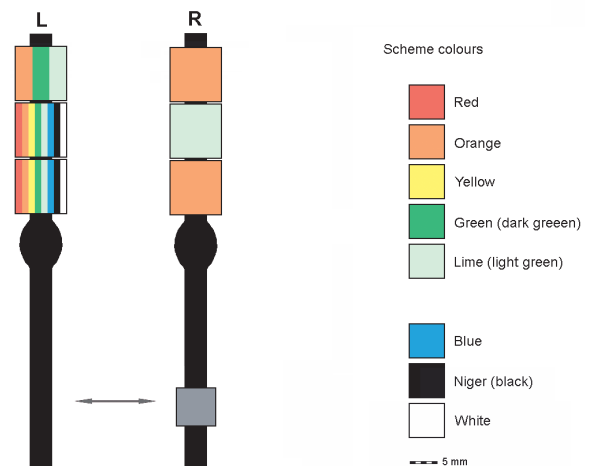
Pete Potts - [pmpotts@tiscali.co.uk](mailto:pmpotts@tiscali.co.uk)

Location: Suffolk - UK  
Non-breeding adults

Subspecies: *islandica*

2008-

Ring height: 10 mm





PP8

Pete Potts - [pmpotts@tiscali.co.uk](mailto:pmpotts@tiscali.co.uk)

Location: Kent - UK

Non-breeding adults

Subspecies: *islandica*

2008-

Ring height: 10 mm

