Introductory course on "CAPTURE-RECAPTURE AND CAPTURE–RECOVERY ANALYSIS FOR THE STUDY OF ANIMAL POPULATION"
23-27 November 2015, Mallorca, SPAIN

Places: 20
Price: 360 €
To register send a message to **g.tavecchia@uib.es**
Dead-line for registration : 24 September 2015

Why another Capture-Mark-Recapture course?

The analysis of individual-based data is rapidly expanding in ecological studies. Statisticians and population ecologists are working together to answer increasingly finer ecological questions. We believe there is a need for an introductory course on capture-mark-recapture techniques aimed to those students, researchers and environmental managers willing to approach this constantly evolving field. No previous knowledge on capture-mark-recapture or capture-mark-recovery analyses is necessary.

What is this course?

The course aims to introduce students, researchers and environmental managers to the theory and practical aspects of the analysis of capture-mark-recapture and –recovery data to estimate survival, recruitment and dispersal probabilities. The course is based on theoretical classes as well as practical sessions with real and simulated data.

Who is organizing this course?

The course is organized by the Population Ecology Group of the IMEDEA (http://www.imedea.uib-csic.es/bc/ecopob/). Lectures will be given by Dr. G. Tavecchia, Prof. D. Oro, Dr. M. Genovart and Dr. A. Sanz, researchers at PEG. Invited researchers sometimes help in teaching as well as practical classes.

When and where?

The course will be held in Esporles (**Mallorca, Spain)** at the IMEDEA (CSIC – UIB, **http://www.imedea.uib.es/**) **from the 23th to the 27th of November 2015.** The closest (and only) airport on Mallorca island is outside the city of Palma. There are several companies offering low-cost flights to Mallorca from nearly every European capital. Esporles is a village at c. 14 km North of Palma city. There are regular buses between Palma and Esporles (c. 35min journey, about 3 € return). You can easily find an accommodation in Palma, stay in one of the two hotels in Esporles or even rent a small flat. We will send you more detailed information if you decide to come. Consider that the course will begin at 14h30 on Monday and will end at 14h30 on Friday so that you might be able to fly during working days.

How much does it cost and how to pay?

Registration fee is 360 €. The fee includes the course material and coffee/tea during

Coffee breaks.
Pre-inscription should be done by sending a message to g.tavecchia@uib.es , before the **24th of September 2015** specifying, *name, surname, institute and a short description of your work.*
Once confirmed, registration fee should be paid by a bank transfer to before the **1st of October 2015** to the following address:

Bank: Sa Nostra
Account Number: 2051-0151-62-1070009518.
Name: University of Balearic Islands
Description*: <Name and surname* > - Capture-Recapture Course

Codes for international transfer:
IBAN: ES17 2051 0151 6210 7000 9518
SWIFT/BIC: CECAESMM051

What do I need?

You need a laptop (important!) with the following freely available software already installed:

1- U_CARE : http://www.cefe.cnrs.fr/BIOM/logiciels.htm
2- MARK http://warnercnr.colostate.edu/~gwhite/mark/mark.htm
3- R: http://cran.r-project.org/ (>Software > Packages).

For more information: ,

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http://populationecologygroup.blogspot.com.es/
tel. 971611824
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Time-table of the course (draft)

Monday 23 :
- 14h30-15h15 Arrival and presentation
- 15h15-17h45 Introduction to the analysis of individual based data (Theory).

Tuesday:24
- 9h15-11h15 Capture-recapture analysis: study design and first step
- 11h15-11h30 Coffee break
- 11h30-13h45 Exercises
- 13h45-15h30 Lunch
- 15h30- 17h45. Single-site analysis I: Time-dependent survival y external covariates.

Wednesday 25
- 9h00-11h15 Single-site analysis II: The effect of group, age and individual covariates.
- 11h15-11h30 Coffee break
- 11h30-13h45 Exercises
- 13h45-15h30 Lunch
- 15h30-17h45. Single-site analysis III: The “Robust design” and the estimate of population size.

Thursday 26
- 9h15-11h15 Multisite-analysis: Dispersion and recruitment probabilities.
- 11h00-11h15 Coffee break
- 11h30-13h45 Exercises
- 13h45-15h30 Lunch
- 15h30-17h45. The analysis of capture-mark-recovery data

Friday 27
- 9h15-11h15 The new models.
- 11h15-11h30 Coffee break
- 11h30-13h45 Exercises / Analysis of Participants’ data