SUMMER SCHOOL
Next Generation Data Management in Movement Ecology

for Master students, PhD students, PostDocs and researchers

During the recent years new tracking technologies have become available to wildlife researchers and managers, allowing data capture from a steadily increasing number of taxa, species and individual animals, causing an ever increasing amount of data. A crucial limitation for efficient use of the data is that in many cases researchers or managers still lack the tools to collect, store and efficiently share these data, in order to use its full potential.

The week long course will familiarize students with the general framework (concepts, problems and solutions) of wildlife GPS-tracking data in the context of both research and wildlife management.
The participants will learn to master the technical tools needed for a proper data management:

- They will be able to acquire, upload, structure, manage, and query their tracking data in a spatial relational database in a multi-users environment.

- They will be able to visualize and analyze data using specific client applications (GIS desktop applications, statistical and geostatistical packages) and to integrate environmental data sets into the database.

- They will have a basic knowledge of advanced topics on spatio-temporal data management, data flow automation, data sharing, and tracking technology.

- They will have an overview of the main operational information systems on wildlife tracking in Europe.

During the summer school, students will learn how to develop a basic tracking data management system for their own data sets.

When: Monday, 2012-09-03 08:00 to Friday, 2012-09-07 18:00

Where:
Leibniz-Institute for Zoo and Wildlife Research (IZW)
Alfred–Kowalke-Str. 17, 10315 Berlin, Germany

ECTS: 5.0 credits (FU Berlin)

To achieve the full credit, the participants are required to prepare for the course by self study of basics of GPS, Geographic Information systems (GIS) and the 'Simple Query Language' (SQL). (Ca. 1 week full-time). Links to web-based textbooks will be provided in time to all accepted participants.

After the course the participants are required to build tracking data management system for their own data sets, write a report on their progress and review existing solutions in wildlife tracking data management. (Ca. 1 week full-time).

Costs: 100€ (The participants have to cover travel, food & accommodation by themselves)

Who can apply?
The course is open to all master students, PhD students, PostDocs or researchers working or planning to work with large datasets from wildlife.

How to apply?
Motivate shortly why you want to join this course, describe your project and the data management needs on 1-2 A4 pages, and send it together with your CV to **Anne Berger (berger@izw-berlin.de)**

Application Deadline: 2012-05-01
All applicants will be informed if they are accepted for the course not later than 2012-06-15

Main teachers:
- Dr. Francesca Cagnacci (Edmund Mach Foundation, Italy)
- Ferdinando Urbano (Consultant, EuroDeer & SAM-NINA system manager)
- Dr. Holger Dettki (WRAM, SLU Umeå, Sweden)
- Sarah Davidson (MoveBank, Max Planck Institute for Ornithology, Germany)
- Dr. Bram Van Moorter (NINA, Norway)

More information can be found at http://www-wram.slu.se/