

# 3-week Master Course in Flyway Ecology

3–21 December 2018 at:



university of  
 groningen



This Master Course in Flyway Ecology will place avian migration in the context of (a) seasonal connections and (b) global connections of ecosystems

## What do we do?

- 1<sup>st</sup> week: Natural history - lectures on migration systems & reading assignment
- 2<sup>nd</sup> week: The biology of migration – how to ask questions / how to do research?
- 3<sup>rd</sup> week: Develop and write your research plan

## Overview program topics

1. Ecological and evolutionary context - habitats and food resources for migrations, habitat tracking, evolution of migration systems  
Research techniques: tracking of free-living animals, habitat assessments, formulating hypothesis and expectations
2. Carry-over effects - phenotypic flexibility and capacity for rapid change; seasonal changes in body composition; extreme migrations
3. Looking for bottlenecks - individual state (annual cycles and routines; carry-over effects in African migrants; controlling mechanisms of migration schedules; internal time keeping; sex and age differences in migration) and population limitations (demography and population regulation; estimating annual and seasonal survival)

## Who teaches the course?

The 2018 course teachers are Theunis Piersma, holding the Rudi Drent Chair in Global Flyway Ecology at the University of Groningen, together with Raymond Klaassen, Jeroen Reneerkens, Jesse Conklin, Eldar Rakhimberdiev and Roeland Bom (NIOZ). The course coordinator is Yvonne Verkuil ([y.l.verkuil@rug.nl](mailto:y.l.verkuil@rug.nl)).

We have guest lectures by Maarten Loonen.

Also involved: PhD researchers at the UG who will share their latest research results with the students.



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