Radar Aeroecology: Applications and perspectives

ENRAM 1st International Conference

23-24 Feb 2017, Rome Palazzo Massimo alle Terme,

Largo Villa Peretti, 2, 00185 Rome



09:00 - Registration

09:30 - Welcome to participants

Movements of birds and insects

Chair – Judy Shamoun-Baranes

09:40	Thomas Alerstam	The radar revolution in bird migration research - old times and new
10:20	Kyle Horton	Avian flight strategies, exploring how migrants cope with wind
10:35	Benjamin Van Doren	Wind drift explains the reoriented morning flights of songbirds
10:50	Baptiste Schmid	Spatial dynamics of broad front avian migration in topography
	11:05-11:30 - Coffee break Chair – Nir Sapir	
11:30	Rob Diel	From promise to product: unleashing the biological potential of weather radar
12:00	Felix Liechti	Big Data - from a continent-wide radar surveillance to species specific migration patterns
12:15	Sandra Pletschet	Factors influencing the accuracy of location estimates of avian roost rings based on weather surveillance radars
12:30	Jeffrey Kelly	Variation in phenology of the Purple Martin's annual cycle observed with weather radar and eBird
12:45	Andrew Farnsworth	Flight behaviour of nocturnally migrating birds at the Sept 11th tribute in light memorial
	13:00-14:15 - Lunch Chair – Jason Chapman	
14:15	Alistair Drake	Observing migrating insects with small special-purpose radars
14:45	Charlotte Wainwright	The movement of small insects in the atmospheric boundary layer
15:00	Samuel Jansson	Entomological laser radar: landscape scale detection of aerofauna
15:15	Valery Melnikov	Insects in atmospheric convective plumes: a radar study
15:30	Hongqiang Feng	Monitoring insect migration with X band radar in China





Hongqiang Feng	Monitoring insect migration wit	
15:45-16:15 - Coffee break		

Advances in radar methodology Chair – Felix Liechti

16:15	Elena Saltikoff	Why is the data from different radars so different?
16:45	Sidney Gauthreaux	Detection of biological scatterers with L-band avian radar and S- band dual-polarization Doppler weather radar
17:00	Yann Tremblay	What happens if the radar moves? Challenges, solutions, perspectives for at-sea ecology of seabirds
17:15	Shaoyang Kong	Insect species identification based on modeling of biological parameters by support Vector Machine
17:30	Jan Blew	Results of pencil beam and surveillance radar compared to German and Danish weather radar at the Baltic sea coast
17:45	Matti Leskinen	Meteorology and biology - local features in weather radar echoes
18:00	Jarmo Koistinen	Appearance and automatic classification of main bird migration types using dual polarimetric weather radars

18:15 - Speed posters presentation Chair – José Alves

- 18:45 Poster session and drinks
- 20:00 Conference dinner

Day 2 – Friday February 24th

Applications

-pp	
	Chair – GiacomoDell'Omo

09:15	Hans van Gasteren	Operational use of radar in bird strike prevention
09:30	Isabel Metz	Detect to avoid: Supporting aviation safety with bird movement information
09:45	Baoping Zhai	Synoptic winds govern insect migration patterns: beyond radar perspective
10:00	Camille Assali	Seabird distribution at sea observed by radars: patterns reveal network foraging
10:15	Pilvi Siljamo	Numerical modelling of the pest insect migration in the atmosphere
10:30	Sevgi Zubeyde	Classification techniques in bird radar
10:45	Luca Moiana	Risk assessment of bird collision with power lines revealed the importance of the Central Mediterranean Corridor for bird migration

Perspectives Chair – Silke Bauer

11:30	Jeff Buler	Unearthing ecology: linking animals aloft to the terrestrial landscape
12:00	Cecilia Nilsson	A large scale analysis of the temporal and spatial pattern of nocturnal broad front migration along the West-European Flyway
12:15	Phillip Stepanian	Multidecadal trends in insect, bat, and bird emergence phenology in the central USA
12:30	Adriaan Dokter	Movement ecology going big: towards a large-scale perspective on the movements of migratory birds
12:45	Yossi Leshem	Integrating radar measurements with other biological data. The Israeli Air Force test case (1984-2016)
13:00	Judy Shamoun-Barane	es Conclusions and highlights
	13:15-14:45 - Lunch	

In the afternoon meeting of the ENRAM partners.

15:00-17:00 Guided visit to the Museum of Palazzo Massimo for the non-ENRAM attendees