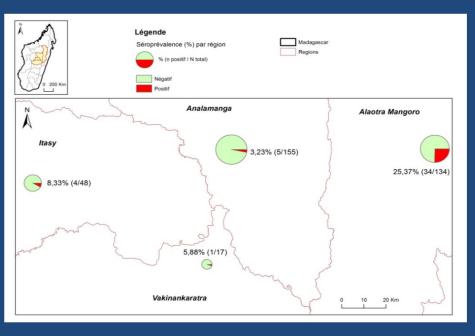


- West Nile virus: zoonotic arbovirus of birds which can affect Humans and horses, endemic in Madagascar but never studied in wild bird populations
- Serological survey of 354 birds from 4 regions of Madagascar in 2016-7
- Seroprevalence: 12.5% (44/352) of birds [95%CI: 11.0-14.0] (belonging to 19/41 species)

Seroprevalence by region:



Logistic regression model: risk factors

Variables		OR	95% CI OR	р
Constant		0,002	9.10 ⁻⁰⁵ -0,02	
Proximity	Yes	1		
to wetlands	No	8,19	1,2-165,1	0,021
Order	Others order	1		
	Ciconiiformes	2,5	0,3-29,5	0,023
	Passeriformes	4,99	1,6-16,2	
	Analamanga	1		
	Itasy	9,2	1,2-115,3	
Region	Vakinankaratra	1,6	0,03-41,6	5,01.10 ⁻⁰⁶
	Alaotra- Mangoro	41,4	6,2-610,7	
	Widespread	1		
Distribution area	Endemic to Indian Ocean	2,6	0,5-14,3	0,0002
	Endemic to Madagascar	1,1	0,28-4,8	
	Africa	31,9	5,46-313,1	

AUC ROC: 0,856

→ Need to build mixed models to take into account individual and species level variables