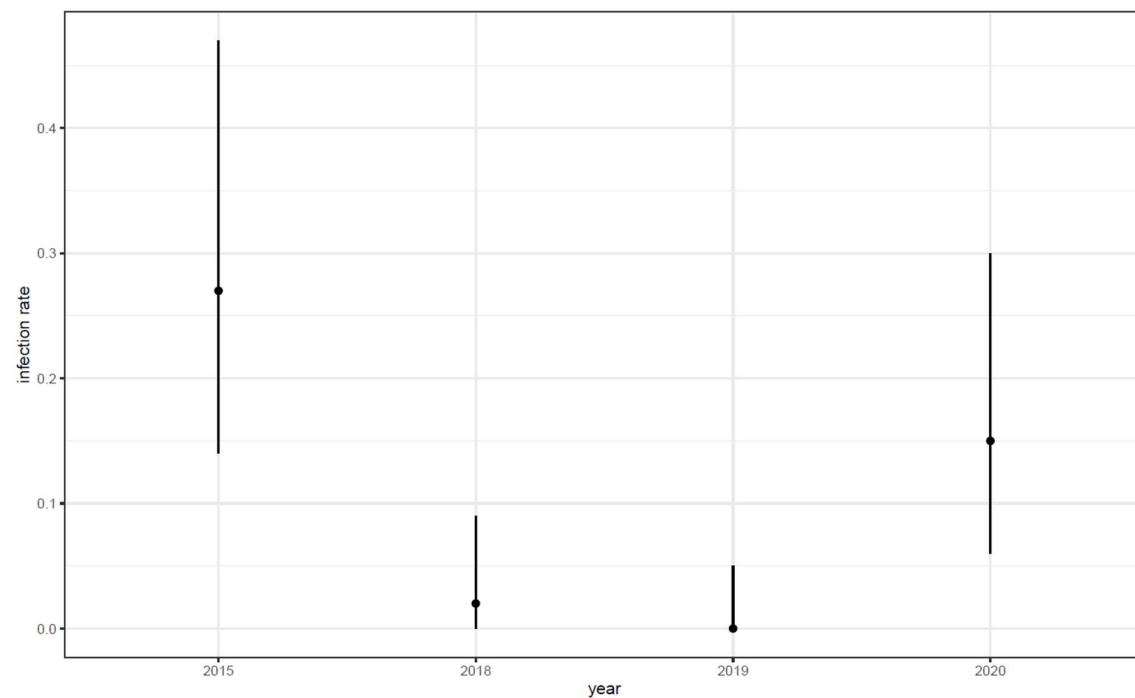


## Supplementary material

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**Supplemental Figure 1.** Temporal dynamics of the infection rate of Usutu virus in *Culex pipiens* females.



Maximum likelihood estimates of infection rates (proportion of infected females per 100 females). Estimates were obtained by pooling data from all sites for a given year.

**Supplemental Table 1.**

Mosquito collection sites in the Camargue area between 2018 to 2020.

sites	latitude	longitude	2015	2018	2019	2020
Beaucaire	43°45'26.48"N	4°37'0.92"E	NO	NO	YES	YES
Bellegarde	43°44'35.84"N	4°30'17.68"E	NO	NO	YES	YES
Bélugue	43°25'20.64"N	4°41'0.90"E	NO	NO	YES	YES
Bois d'Espéran	43°38'56.88"N	4°23'36.91"E	YES	YES	YES	YES
Bois François	43°23'54.35"N	4°47'13.54"E	YES	YES	YES	YES
Caisse d'Epargne	43°24'45.84"N	4°43'38.49"E	NO	YES	YES	YES
Camping Europe	43°29'21.52"N	3°46'37.64"E	NO	NO	YES	NO
Elysette	43°30'57.87"N	4°9'20.48"E	YES	YES	YES	YES
Eysselle	43°24'55.74"N	4°46'11.90"E	NO	NO	YES	YES
Grande Sagne	42°50'33.15"N	2°56'0.02"E	NO	YES	NO	NO
Jardins	43°24'52.78"N	4°44'30.05"E	NO	YES	YES	YES
Jasse brulee	43°37'58.24"N	4°12'22.59"E	YES	YES	YES	YES
Désert	43°28'17.94"N	3°46'49.75"E	NO	YES	YES	YES
Mas d'Avon	43°34'5.14"N	4°12'29.24"E	YES	YES	YES	YES
La Palissade	43°22'34.76"N	4°48'35.81"E	NO	NO	YES	YES
Pêcheurs	42°53'52.44"N	3°0'0.71"E	NO	YES	NO	NO
Petite Sylve	43°34'16.56"N	4°22'56.07"E	YES	YES	YES	YES
Port Napoléon	43°22'38.23"N	4°49'21.11"E	NO	YES	YES	YES
Roustan	43°21'35.05"N	4°50'54.17"E	NO	NO	YES	YES
Saint-Gilles	43°39'58.47"N	4°25'38.16"E	NO	NO	YES	YES
Sites			6	12	18	17
Mosquitoes			4220	5499	7705	4158
Pools			147	1369	257	145
USUV-positive pools			11	1	0	6
WNV-positive pools			-	2	0	0
USUV sequences			YES	YES (1/1)	-	YES (2/6)
WNV sequences			-	YES (1/2)	-	-

All sites were not sampled all years. Thus, a “YES” on a given year indicates sampling in that site and year. Data on the sites from our previous study in 2015 are provided for the sake of completeness. Sites with WNV-positive pools are shown in blue. Sites with USUV-positive pools are shown in yellow. Figures between brackets stand for number of pools yielding a virus sequence among positive pools for a given virus.