

Mosquitoes sampling in Ticino for monitoring of arbovirus, 2012

Collection of mosquitoes was carried out by Anya Rossi-Pedruzzi and Evelin Casati between 10.05.2012 and 9.10.2012

Number of collection periods and collected individuals of target species

	Number of periods	Trap	Number of female mosquitoes
<i>Culex cf. pipiens</i>	37	Gravid traps	8464
<i>Culex modestus</i>			(+ 1368 without abdomen) 0
<i>Aedes vexans</i>	5	CDC CO ₂	3558
<i>Aedes albopictus</i>	25	BG + vacuum	3022 (+ 1438 males)

Collection periods of *Culex* sp.

Collection period for *Culex* sp. = 4 Gravid traps (2 in natural area and 2 in inhabited area in the same region). The traps were placed in the evening and harvested the next day early in the morning.

2012	Inhabited area (2 Gravid trap)	Natural area (2 Gravid trap)	Period 1	Period 2	Period 3
Piano di Magadino	Tenero, Quartino	Bolle di Magadino	14.05	9.07	
	Quartino-Cadepezzo	Cugnoli Curti, Palude Longhetti	18.06		
	Cadenazzo, Contone	Monda, Ciossa Antognini	5.06		
	Gudo, Riazzino, Camping Cugnasco	Demario, Palude Isoletta	3.07	27.08	
	Giubiasco	Boschetti di Sementina	29.05	7.08	
	Camorino, Giubiasco	Stagno di Camorino	10.05	21.08 (2 trap)	30.08 (1 trap)
Bellinzonese, Riviera	Bellinzona	-	21.06	14.08	
	Biasca	Biotopo di Pasquerio, stagno centro professionale	26.06		
	Claro, Castione	Quedri, Stagni Scerri	11.07 (3 trap)	21.08 (2 trap)	
Locarnese	Locarno, Ascona	Foce della Maggia – ROM	13.06	10.07	
	Losone	Piano di Arbigo Losone, stagno Barbescio	27.06	13.08	
Mendrisiotto	Seseglio	Stagni di Seseglio	19.06	8.08	
	Novazzano	Pra Coltello Novazzano	15.06	16.07	
	Stabio	Colombera, stagno MES, Prella	2.07	17.08	
	Rancate, Ligornetto	Pre Murin, Pozza Pavù	25.06	22.08	
	Balerna, Morbio inferiore, Vacallo	Biotopi umidi Gole della Breggia	17.07		

2012	Inhabited area (2 Gravid trap)	Natural area (2 Gravid trap)	Period 1	Period 2	Period 3
Luganese	Muzzano	Laghetto di Muzzano	15.05	25.06	
	Origlio	Laghetto di Origlio	4.06		
	Vezia	Bolla di S. Martino	13.06		
	Lugano	-	4.07	13.08	
Malcantone	Caslano, Bioggio	Foce della Magliasina	18.06	9.07	
	Sessa, Monteggio,...	Biotopi Malcantone, lungo la Tresa,...	3.07	30.07	

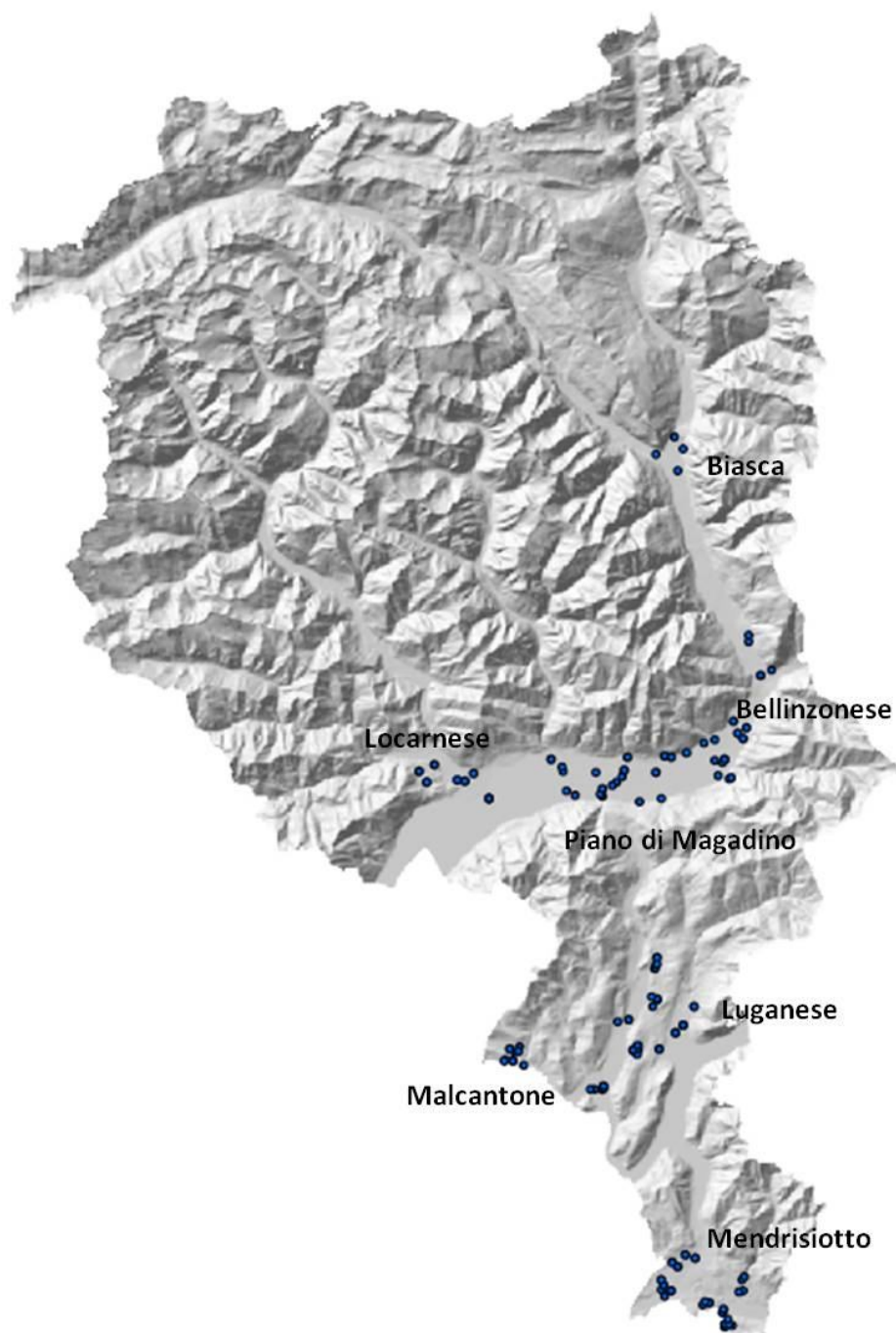


Fig. 1 – Collection sites with Gravid traps for *Culex sp.*(148 traps)

Collection periods of *Aedes vexans*

Collection period for *Aedes vexans* = 4 CDC CO₂ traps in natural area. The traps were placed in the evening and harvested the next day early in the morning.

Date	Number of CDC CO ₂	Site
14.05.2012	3	Bolle S and Bolle N
29.05.2012	3	Bolle S
05.06.2012	3	Bolle N
13.06.2012	4	Gudo Malcantone and Delta della Maggia
18.06.2012	4	Bolle S and Bolle N
09.07.2012	4	Bolle S, Bolle N and Palude Isoletta Cugnasco



Fig. 2 – Collection sites with CDC CO₂ traps for *Aedes vexans* (21 traps)

Collection periods of *Aedes albopictus*

Collection period for *Aedes albopictus* = 4 BG-sentinel in inhabited area, placed in the morning and harvested the same day in the late afternoon, or collection during the day with vacuum (about half a day).



Fig. 3 – Collection sites with BG-sentinel or vacuum for *Aedes albopictus* (59 traps and 60 sampling sites with vacuum)

	Site	Vacuum	BG-sentinel
07.08.2012	Mendrisiotto		x
08.08.2012	Mendrisiotto	x	x
17.08.2012	Mendrisiotto	x	
21.08.2012	Mendrisiotto		x
22.08.2012	Mendrisiotto	x	x
24.08.2012	Tenero e Gordola	x	
28.08.2012	Mendrisiotto	x	
29.08.2012	Tenero e Gordola	x	
30.08.2012	Mendrisiotto		x
03.09.2012	Mendrisiotto		x
04.09.2012	Mendrisiotto		x
10.09.2012	Mendrisiotto e Sementina	x	x
11.09.2012	Mendrisiotto		x
12.09.2012	Mendrisiotto		x
17.09.2012	Mendrisiotto e Sementina	x	
18.09.2012	Mendrisiotto		x
19.09.2012	Mendrisiotto		x
24.09.2012	Mendrisiotto		x
25.09.2012	Mendrisiotto e Sementina	x	x
26.09.2012	Mendrisiotto		x
09.10.2012	Mendrisiotto	x	