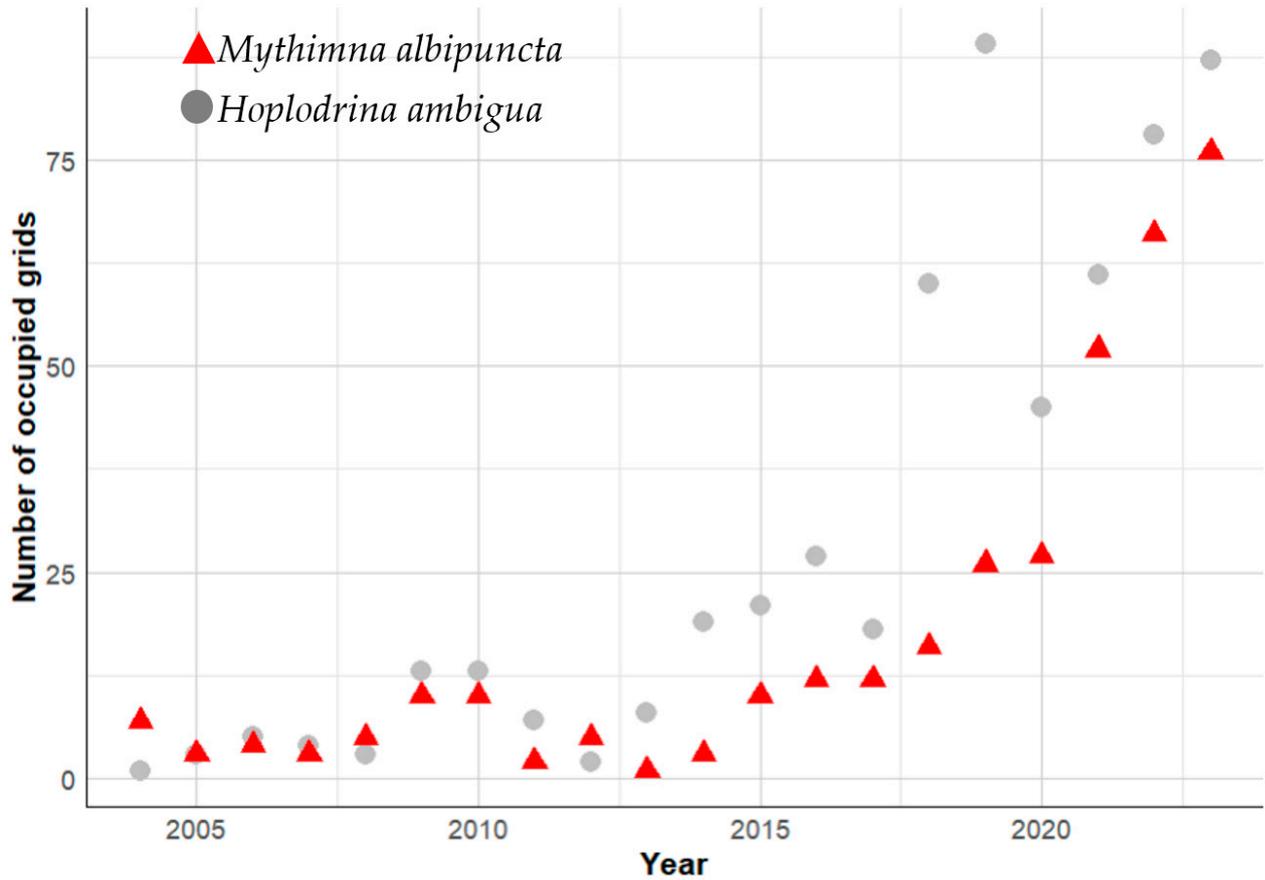


a)



b)

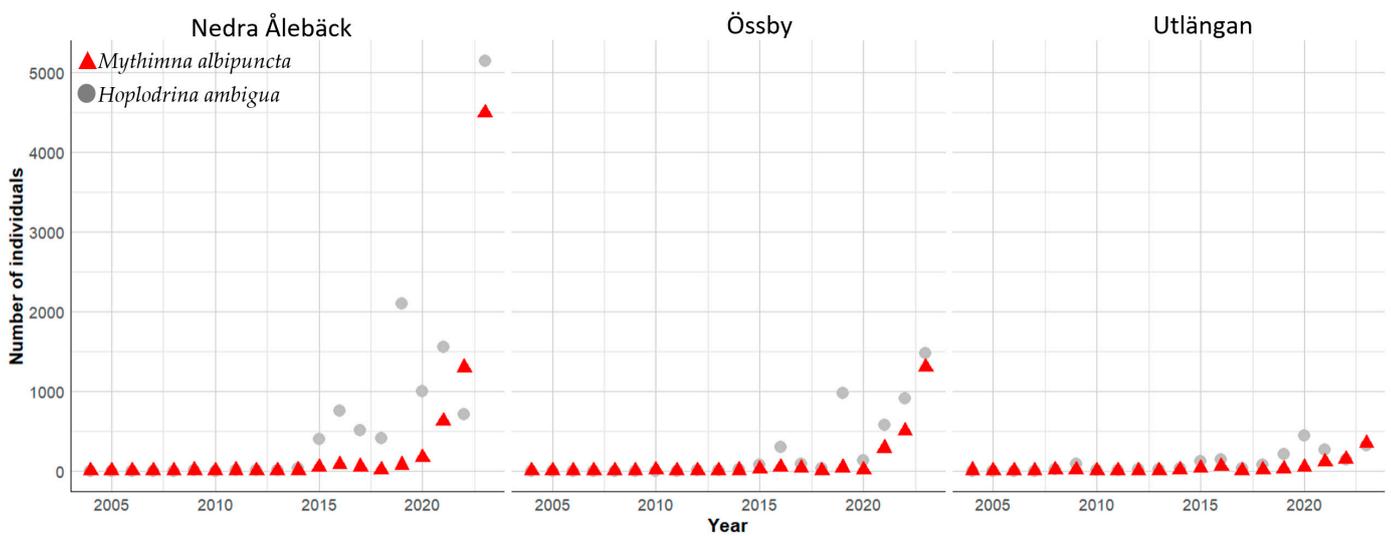


Figure S1. a) Distribution area (expressed as the number of occupied 60 km² grids), and b) abundance of *Mythimna albipuncta* and *Hoplodrina ambigua* during the course of the study (2004–2023). Data on distribution area refers to the Global Biodiversity Information Facility (GBIF), while data on abundance refers to the three light-traps in southeastern Sweden used in this study.

Table S1. The recorded abundance of *Mythimna albipuncta* and *Hoplodrina ambigua* per trap and year.

Species	Site	Year	Individuals
<i>Hoplodrina ambigua</i>	Nedre aleback	2004	0
<i>Hoplodrina ambigua</i>	Ossby	2004	0
<i>Hoplodrina ambigua</i>	Utlangan	2004	0
<i>Mythimna albipuncta</i>	Nedre aleback	2004	0
<i>Mythimna albipuncta</i>	Ossby	2004	0
<i>Mythimna albipuncta</i>	Utlangan	2004	7
<i>Hoplodrina ambigua</i>	Nedre aleback	2005	0
<i>Hoplodrina ambigua</i>	Ossby	2005	0
<i>Hoplodrina ambigua</i>	Utlangan	2005	2
<i>Mythimna albipuncta</i>	Nedre aleback	2005	1
<i>Mythimna albipuncta</i>	Ossby	2005	3
<i>Mythimna albipuncta</i>	Utlangan	2005	0
<i>Hoplodrina ambigua</i>	Nedre aleback	2006	0
<i>Hoplodrina ambigua</i>	Ossby	2006	0
<i>Hoplodrina ambigua</i>	Utlangan	2006	1
<i>Mythimna albipuncta</i>	Nedre aleback	2006	1
<i>Mythimna albipuncta</i>	Ossby	2006	4
<i>Mythimna albipuncta</i>	Utlangan	2006	4
<i>Hoplodrina ambigua</i>	Nedre aleback	2007	0
<i>Hoplodrina ambigua</i>	Ossby	2007	1
<i>Hoplodrina ambigua</i>	Utlangan	2007	2
<i>Mythimna albipuncta</i>	Nedre aleback	2007	0
<i>Mythimna albipuncta</i>	Ossby	2007	4
<i>Mythimna albipuncta</i>	Utlangan	2007	0
<i>Hoplodrina ambigua</i>	Nedre aleback	2008	0
<i>Hoplodrina ambigua</i>	Ossby	2008	1
<i>Hoplodrina ambigua</i>	Utlangan	2008	18
<i>Mythimna albipuncta</i>	Nedre aleback	2008	2
<i>Mythimna albipuncta</i>	Ossby	2008	1
<i>Mythimna albipuncta</i>	Utlangan	2008	12
<i>Hoplodrina ambigua</i>	Nedre aleback	2009	5
<i>Hoplodrina ambigua</i>	Ossby	2009	3
<i>Hoplodrina ambigua</i>	Utlangan	2009	86
<i>Mythimna albipuncta</i>	Nedre aleback	2009	8
<i>Mythimna albipuncta</i>	Ossby	2009	6
<i>Mythimna albipuncta</i>	Utlangan	2009	17
<i>Hoplodrina ambigua</i>	Nedre aleback	2010	0
<i>Hoplodrina ambigua</i>	Ossby	2010	2
<i>Hoplodrina ambigua</i>	Utlangan	2010	8
<i>Mythimna albipuncta</i>	Nedre aleback	2010	3

Mythimna albipuncta	Ossby	2010	11
Mythimna albipuncta	Utlangan	2010	1
Hoplodrina ambigua	Nedre aleback	2011	9
Hoplodrina ambigua	Ossby	2011	1
Hoplodrina ambigua	Utlangan	2011	6
Mythimna albipuncta	Nedre aleback	2011	7
Mythimna albipuncta	Ossby	2011	3
Mythimna albipuncta	Utlangan	2011	2
Hoplodrina ambigua	Nedre aleback	2012	14
Hoplodrina ambigua	Ossby	2012	6
Hoplodrina ambigua	Utlangan	2012	17
Mythimna albipuncta	Nedre aleback	2012	0
Mythimna albipuncta	Ossby	2012	0
Mythimna albipuncta	Utlangan	2012	0
Hoplodrina ambigua	Nedre aleback	2013	8
Hoplodrina ambigua	Ossby	2013	4
Hoplodrina ambigua	Utlangan	2013	21
Mythimna albipuncta	Nedre aleback	2013	0
Mythimna albipuncta	Ossby	2013	0
Mythimna albipuncta	Utlangan	2013	1
Hoplodrina ambigua	Nedre aleback	2014	34
Hoplodrina ambigua	Ossby	2014	24
Hoplodrina ambigua	Utlangan	2014	33
Mythimna albipuncta	Nedre aleback	2014	8
Mythimna albipuncta	Ossby	2014	8
Mythimna albipuncta	Utlangan	2014	13
Hoplodrina ambigua	Nedre aleback	2015	395
Hoplodrina ambigua	Ossby	2015	76
Hoplodrina ambigua	Utlangan	2015	116
Mythimna albipuncta	Nedre aleback	2015	43
Mythimna albipuncta	Ossby	2015	22
Mythimna albipuncta	Utlangan	2015	37
Hoplodrina ambigua	Nedre aleback	2016	754
Hoplodrina ambigua	Ossby	2016	294
Hoplodrina ambigua	Utlangan	2016	138
Mythimna albipuncta	Nedre aleback	2016	83
Mythimna albipuncta	Ossby	2016	43
Mythimna albipuncta	Utlangan	2016	58
Hoplodrina ambigua	Nedre aleback	2017	513
Hoplodrina ambigua	Ossby	2017	88
Hoplodrina ambigua	Utlangan	2017	31
Mythimna albipuncta	Nedre aleback	2017	51

Mythimna albipuncta	Ossby	2017	33
Mythimna albipuncta	Utlangan	2017	4
Hoplodrina ambigua	Nedre aleback	2018	408
Hoplodrina ambigua	Ossby	2018	27
Hoplodrina ambigua	Utlangan	2018	78
Mythimna albipuncta	Nedre aleback	2018	9
Mythimna albipuncta	Ossby	2018	4
Mythimna albipuncta	Utlangan	2018	17
Hoplodrina ambigua	Nedre aleback	2019	2098
Hoplodrina ambigua	Ossby	2019	980
Hoplodrina ambigua	Utlangan	2019	206
Mythimna albipuncta	Nedre aleback	2019	73
Mythimna albipuncta	Ossby	2019	40
Mythimna albipuncta	Utlangan	2019	24
Hoplodrina ambigua	Nedre aleback	2020	1000
Hoplodrina ambigua	Ossby	2020	128
Hoplodrina ambigua	Utlangan	2020	447
Mythimna albipuncta	Nedre aleback	2020	167
Mythimna albipuncta	Ossby	2020	10
Mythimna albipuncta	Utlangan	2020	50
Hoplodrina ambigua	Nedre aleback	2021	1553
Hoplodrina ambigua	Ossby	2021	575
Hoplodrina ambigua	Utlangan	2021	265
Mythimna albipuncta	Nedre aleback	2021	624
Mythimna albipuncta	Ossby	2021	284
Mythimna albipuncta	Utlangan	2021	112
Hoplodrina ambigua	Nedre aleback	2022	705
Hoplodrina ambigua	Ossby	2022	912
Hoplodrina ambigua	Utlangan	2022	143
Mythimna albipuncta	Nedre aleback	2022	1295
Mythimna albipuncta	Ossby	2022	500
Mythimna albipuncta	Utlangan	2022	142
Hoplodrina ambigua	Nedre aleback	2023	5137
Hoplodrina ambigua	Ossby	2023	1477
Hoplodrina ambigua	Utlangan	2023	323
Mythimna albipuncta	Nedre aleback	2023	4491
Mythimna albipuncta	Ossby	2023	1297
Mythimna albipuncta	Utlangan	2023	348