

The agenda slide has a blue header with white text that reads "Agenda". Below the slide is a white footer bar with the text "VVE_WG_DV_2015_10_03_bijeenkomst".

<p>Leptidea Project Website (Pilootfase 2)</p> <p>Pauze</p> <p>Artikel: DNA barcode reference library Iberian butterflies Alpen 29.vi – 26.vii 2015</p> <p>Agenda en varia</p>	<p>Dave & Sylvain</p> <p>Sylvain</p>
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Aanwezigen

Jurgen Couckuyt
Sylvain Cuvelier
Arne De Mol
Ortwin Hoffmann
Kurt Jonckheere
Dave Maertens
Boudewijn Maes

Laurian Parmentier
Fonny Schoeters
Philippe Van de Velde
Agnes Van Grimberge
Pieter Vantieghem
Raphaël Windey

VVE_WG_DV_2015_10_03_bijeenkomst

Geëxcuseerd

* Roland De Mol
* Stef Spruytte
* Omer Van de Kerckhove
* Diederik Van den Abbeele
* Luc Verhelst
* Jacques Vervaeke

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MAAR EERST: PROFICIAT !

Nieuws uit Nederland

Nog nieuws?

Ja, op 14 november

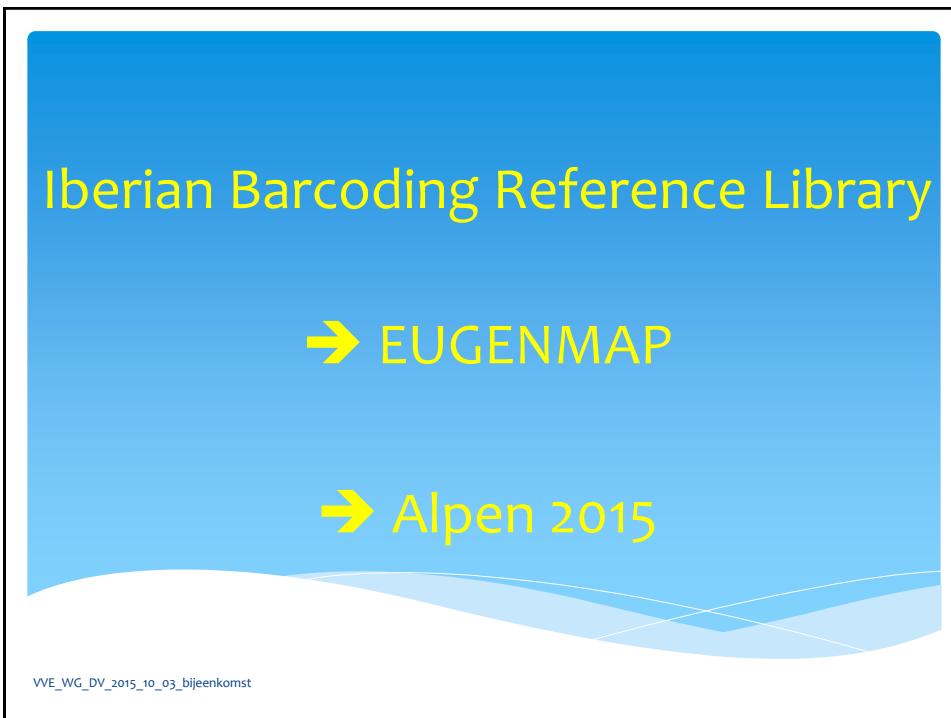
Project Leptidea

[Piloot fase 2](#)

PAUZE

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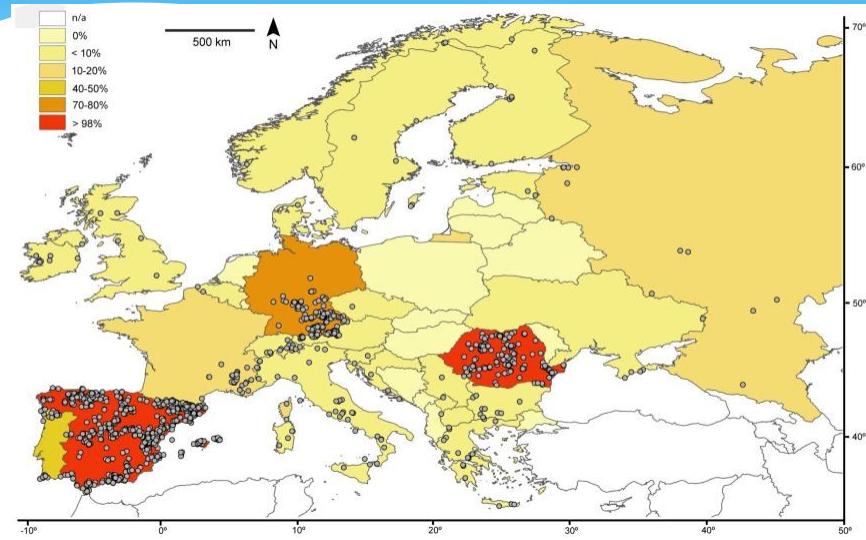


DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity

Dinca et al. *Scientific Reports* 5, Article number: 12395 (2015)

- * Roemenië eerste Europese land met barcoding van zijn dagvlinder fauna (Dinca et al. 2011)
(1387 DNA barcodes – 180 soorten)
- * Beieren (D) + « losse » publicaties + keuzes uit RVcoll
- * Met deze publicatie: van het Iberisch schiereiland
+ 3502 DNA barcodes & 228 soorten
- * Voor Europa: in totaal **5782 barcodes voor 299 soorten**

DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity



DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity



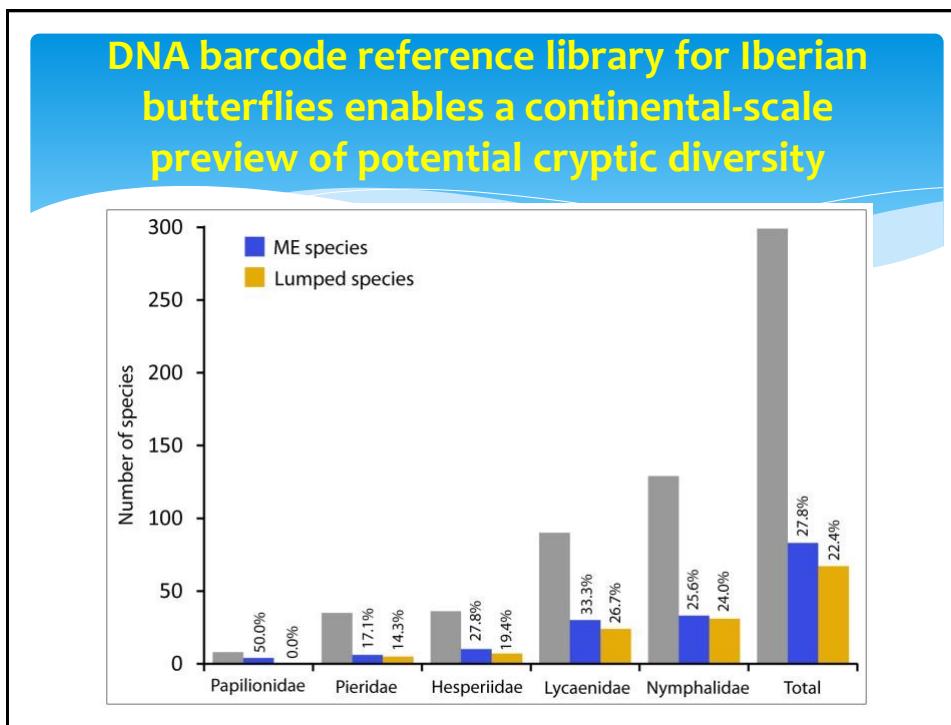
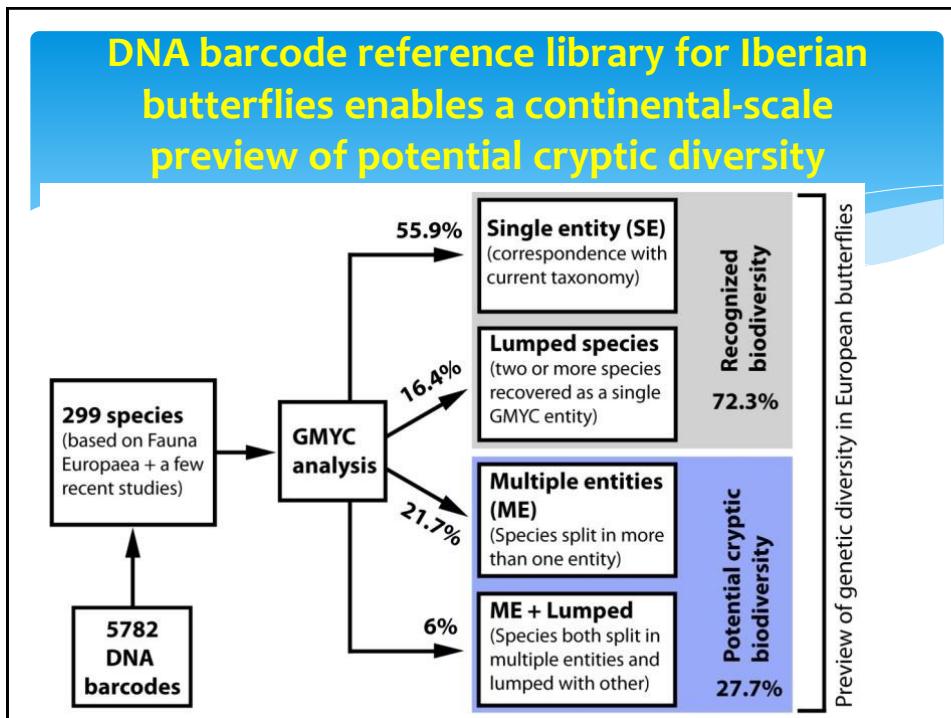
DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity

- ➔ **GMYC** usually generates the highest number of putative species (i.e. GMYC entities) compared to **morphospecies**
- ➔ It is important to stress that units recovered by GMYC should be regarded as **genetically diverged lineages** that reflect **various evolutionary processes** and, in some cases, represent **potential cryptic species**

DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity

299 soorten uit faunaeur.org
 toevoeging *L. juvernica*, *P. celina*
 min *P. (A.) galloii*

- ➔ **SE** = Single entity GMYC: **167 soorten (55,9%)**
 = soort in overeenstemming met huidige taxonomie
- ➔ **Lumped: 49 soorten (16,4%)**
 = twee taxa in huidige taxonomie maar met identieke GMYC
- ➔ **ME** = Multiple entities GMYC: **65 soorten (21,7%)**
 = 2 of meer eenheden binnen één taxon in huidige taxonomie
- ➔ **ME + lumped: 18 soorten (6%)**



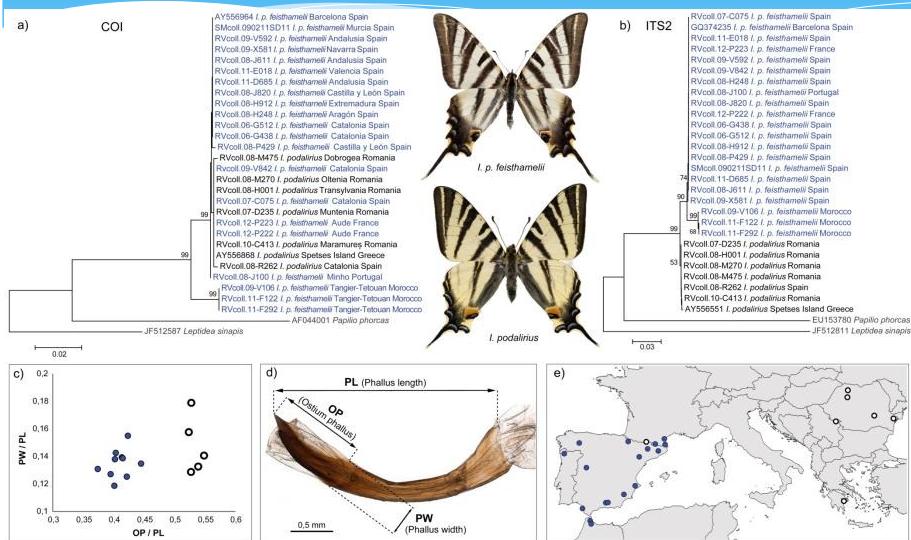
DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity

"The results indicate that **27.7%** of these species include from **two to four evolutionary significant units (ESUs)**, suggesting that cryptic biodiversity may be higher than expected for one of the best-studied invertebrate groups and regions.

The ESUs represent important units for conservation, models for studies of evolutionary and speciation processes, and sentinels for future research to unveil hidden diversity."

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DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity



DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity

Welke taxa zijn het meest divergent ?

Sympatrisch < 50 km > allopatisch ?

DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity

Taxon	Specimens analyzed	GMYC entities and comments	ST GMYC	MM GMYC	Min. p-dist.	Entity distribution
 <i>Boloria euphrosyne</i>	24	3 entities	1	1	4.0	allopatic
 <i>Thymelicus lineola</i>	28	4 entities	1	1	3.8	sympatric
 <i>Hipparchia semele</i>	33	2 entities; one of them is shared with <i>H. volgensis</i>	1	1	3.3	sympatric
 <i>Parnassius mnemosyne</i>	19	2 entities	1	1	3.2	allopatic
 <i>Pyrgus cinarae</i>	22	2 entities	1	1	3.1	allopatic
 <i>Satyrium spini</i>	31	3 entities	1	0.99	2.9	allopatic
 <i>Melitaea athalia</i>	43	3 entities	1	0.98	2.9	allopatic

DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity							
→		<i>Arethusana arethusa</i>	40	2 entities	1	1	2.9 allopatric
→		<i>Spialia sertorius</i>	28	2 entities; one of them is shared with <i>S. orbifer</i>	1	1	2.9 sympatric
→		<i>Limenitis camilla</i>	24	2 entities	1	1	2.7 allopatric
		<i>Aricia nicias</i>	16	2 entities	1	1	2.6 allopatric
		<i>Melitaea didyma</i>	39	4 entities	1	1	2.6 sympatric
		<i>Erebia pronoe</i>	26	2 entities	1	1	2.6 allopatric
→		<i>Pyrgus armoricanus</i>	36	2 entities	1	1	2.6 sympatric

DNA barcode reference library for Iberian butterflies enables a continental-scale preview of potential cryptic diversity							
ME mogelijk binnen de Belgische dagvlinders ? 33 soorten.							
A. urticae (2); A. hyperantus (2); A. adippe (2); A. aglaja (2);							
A. agestis (2); B. euphrosyne (3) ; B. daphne/ino (2); B. ino/daphne (2);							
C. alceae (2) ; C. arcania (2); C. pamphilus (2); C. semiargus (2);							
F. quercus (2); G. alexis (2); G. rhamni (3); H. semele (2) ; L. maera (4);							
L. camilla (2) ; M. jurtina (2); M. athalia (3) ; M. aurelia (2);							
M. cinxia (2); M. diamina (2); N. polychloros (2); P. machaon (2);							
P. rapae (2); P. argus (4); P. icarus (3); P. armoricanus;							
S. sertorius (2) ; T. acteon (2); T. lineola (4); T. sylvestris (4)							

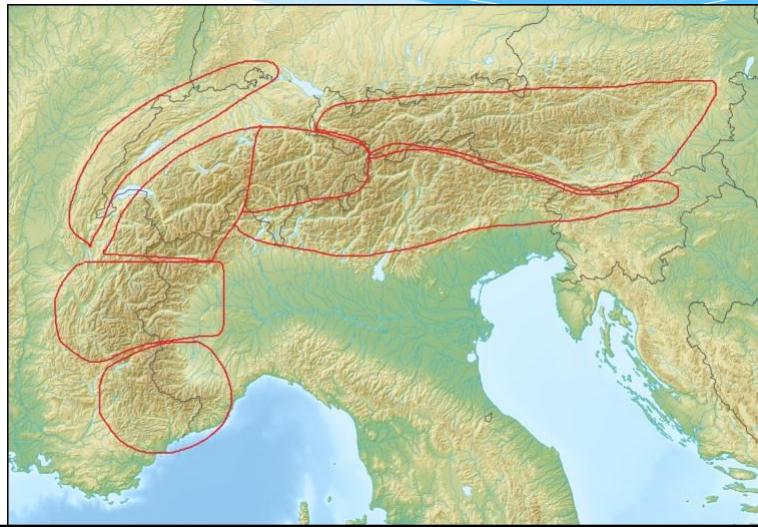
EUGENMAP project

- * Hoe is het globale Europese plaatje en vs N. Amerika/Australië?
→ **EUGENMAP**
Doel: > 95% van de Europese taxa (20 ex./taxon)
Optimaliseren geografische spreiding per taxon
- * Lacunes in de dbase: zoveel mogelijk zelf bemonsteren:
o.a. Balkan (2013 & 2014; lente & zomer) + Alpen (2015)
- * Lacunes verder aanvullen met extern materiaal
- * Een luik voor België: « EUGENMAP@BE »

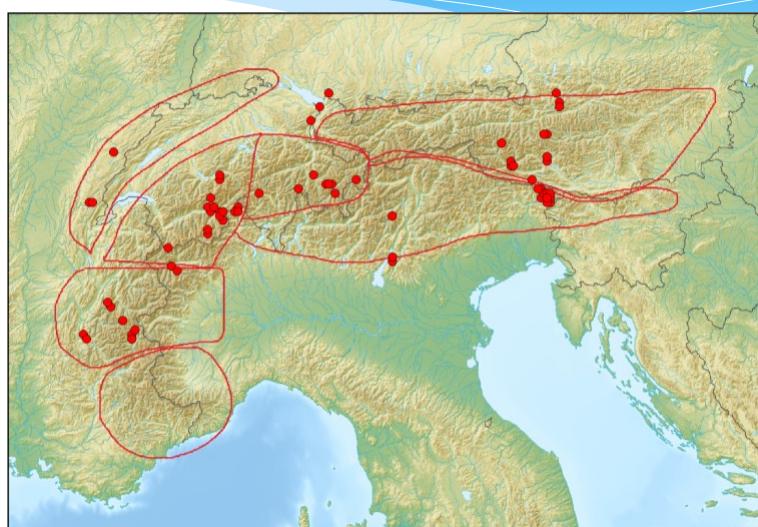
Alpen 29.vi – 26.vii.2015 + Vlad Dinca & Raluca Voda

1. Afwezige of zwak bemonsterde soorten in RVcoll
2. F: Jura-Doubs
Ch: Bern, Wallis-Valais, Ticino, Graubunden
I: Piemonte, Valle d' Aosta, Trentino-Alto Adige, Friuli
A: Salzburg, Kärnten, Tirol
Fl: Liechtenstein
3. Op elk biotoop maximaal aantal taxa inzamelen
4. Focus op soorten met verschillende lineages

Alpen 29.vi – 26.vii.2015 Geografische planning

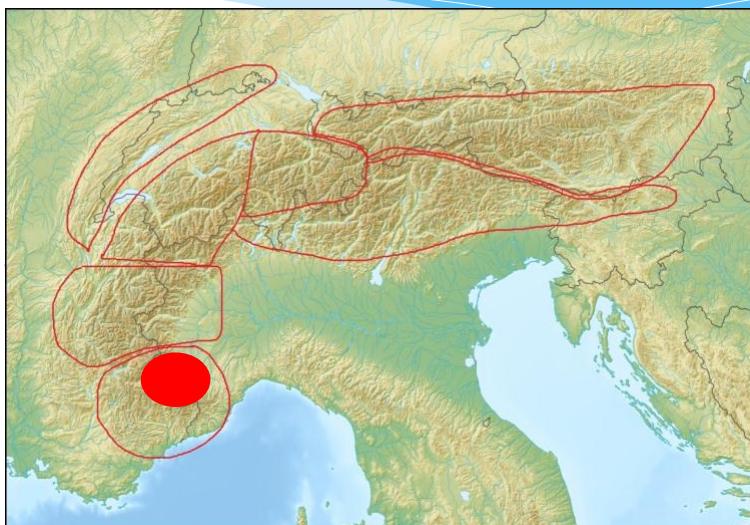


Alpen 29.vi – 26.vii.2015 Bemonsterde locaties





Euphydryas italica?



VVE WG DV

Volgende data

Veldactiviteiten:

- | | | | |
|---------------|--|---|-----------------|
| 08.xi | A. iris, L. camilla & S w-album | Berlare fase 1 | Jurgen/Philippe |
| ??? | A. iris, L. camilla & S w-album | Berlare fase 2 | Jurgen/Philippe |
| 28.xii | T. betulae & L. camilla | Ploegsteert | ZWVVK |
| 10.x | Berlare | Workshop dissectie, opzetten | LUNCH? → Jurgen |
| 14.xi | BC Molsbroek | P. malvae, Durme-Schelde 2015, start Fliefflotter2015 | |
| 26.xii | BC Molsbroek | Bitche 26-28.vi.2015 & Fliefflotter2015 | |

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Nieuw/komende

op de website

- * Reisverslag: Duitsland zomer 2015
door Jacques Vervaeke
- * ALF: publicatie over de driedaagse naar Bitche in
« Lépidoptères »

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Nieuwe publicatie

Bibliography on the butterflies of Russia and adjacent countries (1758-2008)

V. Tuzov

Format A4, 680 pp, hard cover

95.00 Euro

[Flyer & Order form](#)

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International Symposium: Future 4 Butterflies in Europe

Datum: 31/03/2016 AM – 02/04/2016 13u00

Plaats: Wageningen – NL

[Web](#)

[General information](#)

Sessie door de VVE WG DV is mogelijk met 5 topics (+/- 15')

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