

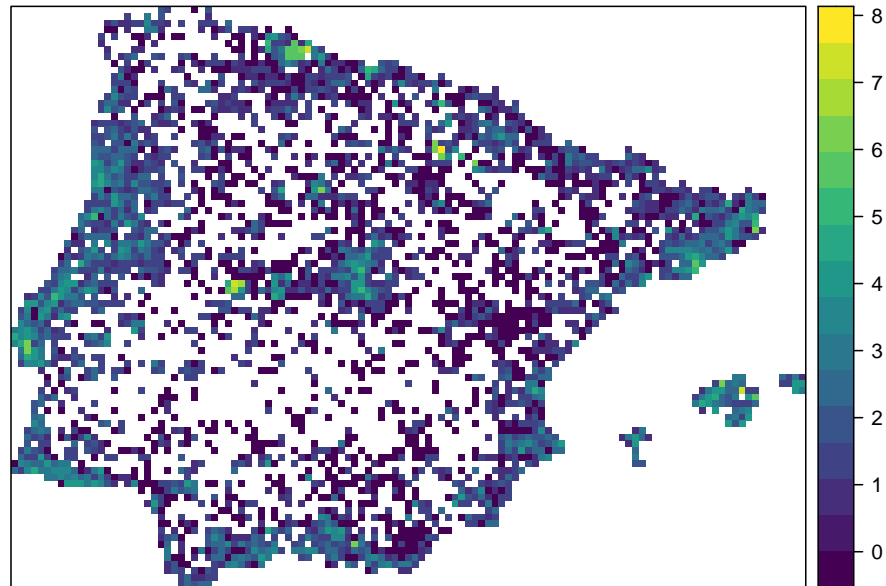
## Summary of the IberianBees database

The Iberian Bee Database contains **103464 entries** of bee occurrences over the peninsula and nearby islands. We have at least one record of **925 species** out of the **1055 species** known to occur in the Iberian Peninsula.

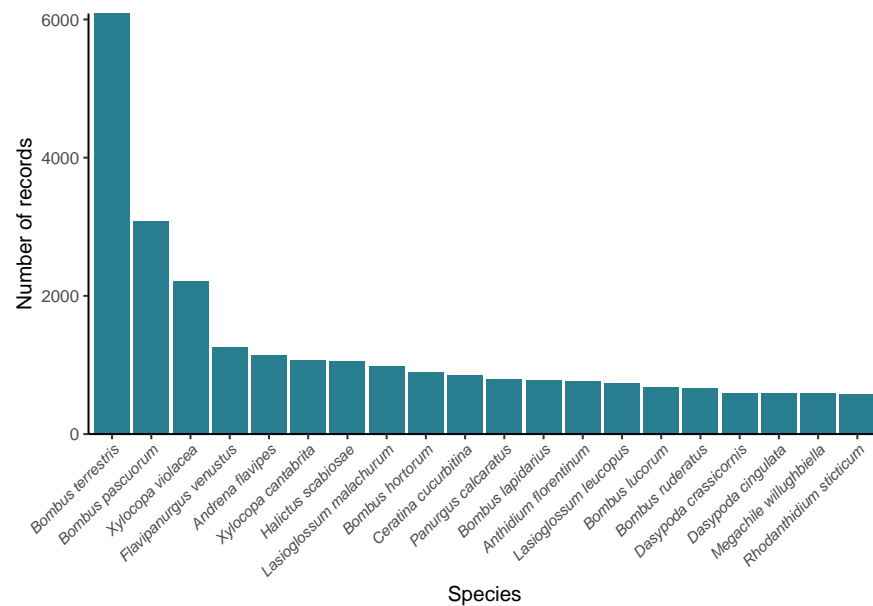
We retained only valid, updated species names. All records have accompanying metadata on where and when it was collected, and on who collected, identified and curated the data.

Here we present a summary of the database:

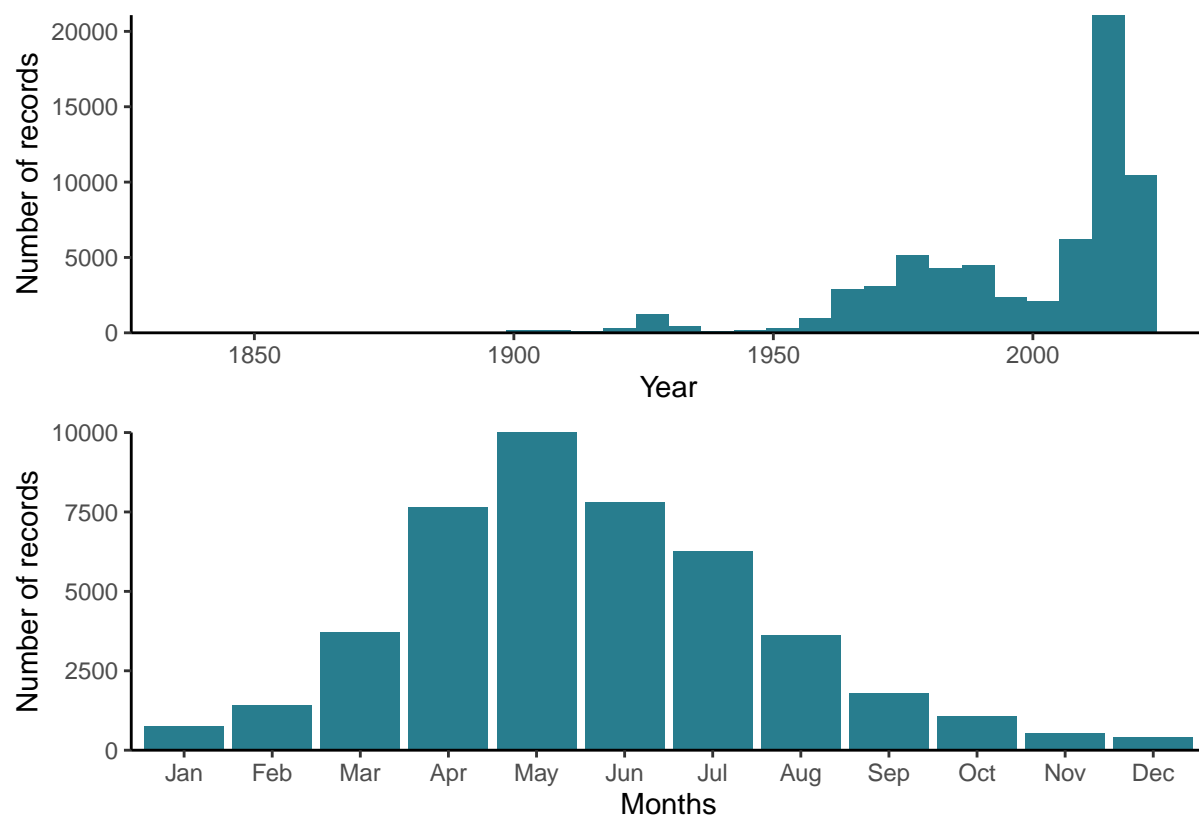
Where are the records? (Logarithmic scale of the number of occurrences)



Which are the 20 most reported species? (Excluding *Apis mellifera*)



## When are we recording more bees?



## Who make this possible?

This is a large collaborative effort lead by I. Bartomeus, L. Carvalheiro and T. Woods, but it would not be possible without the contribution of thousands of researchers. Full list of contributors will be available soon.

```
#table of
#Name
#Contact
#Number of records as main dataholder
#Number of records as co-dataholder
#email?? Maually :(
#default <- par()$mar
#par(mar = c(13.1, 4.1, 4.1, 2.1))
#barplot(head(sort(table(data2$Authors.to.give.credit), decreasing = TRUE),20), las = 2, cex.names = 0.5)
#par(mar = default)
#Can be done prettier.
#Ideally, we can merge all authors, split and count individually.
library(stringi)
authors <- data$Authors.to.give.credit[which(!is.na(data$Authors.to.give.credit))]
authors[which(authors == "Ornosa, C., Martínez, M. D.")] <- "C. Ornosa, M.D. Martínez"
authors[which(authors == "C. Ornosa & F. J. Ortiz-Sánchez")] <- "C. Ornosa, F. J. Ortiz-Sánchez"
authors[which(authors == "C. Ornosa & M.D. Martínez")] <- "C. Ornosa, M.D. Martínez"
authors[which(authors == "Ortiz-Sanchez, F.J.")] <- "F.J. Ortiz-Sanchez"
authors[which(authors == "Heras, C., Gayubo, S. F.")] <- "C. Heras, S.F. Gayubo"
authors[which(authors == "Ornosa, C.")] <- "C. Ornosa"
authors[which(authors == "Herrera, J.")] <- "Javier Herrera"
authors[which(authors == "Francisco Javier Ortiz-Sánchez, Pedro Coello & Manuel Baena")] <- "Francisco J. Ortiz-Sánchez, Pedro Coello & Manuel Baena"
```

```

authors[which(authors == "González, J. A., Torres, F., Gayubo, S. F.")] <- "J.A. González, , F. Torres,
authors[which(authors == "Dardón, M. J., Torres, F., Asís, J. D.")] <- "M.J. Dardón, F. Torres, J.D. As
authors[which(authors == "Pérez-Iñigo Mora, C.")] <- "C. Pérez-Iñigo Mora"
authors[which(authors == "Pablo Vargas, Concepción Ornos, Francisco Javier Ortiz-Sánchez & Juan Arroyo
authors[which(authors == "C. Heras y S.F. Gayubo")] <- "C. Heras, S.F. Gayubo"
authors[which(authors == "J. L. BLANCO-PASTOR, C. ORNOSA, D. ROMERO, I. M. LIBERAL, J. M. GÓMEZ & P. VA
authors[which(authors == "Concepción Ornos, Félix Torres & Pilar de la Rúa")] <- "Concepción Ornos, F
authors[which(authors == "Castro, L.")] <- "L. Castro"
authors[which(authors == "Ortiz-Sanchez, F. J., Ornos, C.")] <- "F.J. Ortiz-Sanchez, C. Ornos"
authors[which(authors == "Banaszak, J., Ortiz-Sanchez, F. J.")] <- "J. Banaszak, F.J. Ortiz-Sanchez"
authors[which(authors == "C. Ornos, F. Torres & F. J. Ortiz-Sánchez")] <- "C. Ornos, F. Torres, F. J.

author_pool <- stri_paste(authors, collapse = ",")
author_list <- unlist(strsplit(author_pool, ","))
author_list <- trimws(author_list)
#sort(unique(author_list))[-1] #79 contributors!
#write.csv(sort(unique(author_list))[-1], "data/authors.csv")

auth <- c(
"Alejandro Núñez"
,"Amparo Lázaro"
,"Ana Montero-Castaño"
,"Anna Traveset"
,"Blanca Arroyo-Correa"
,"C. Heras"
,"Curro Molina"
,"C. O'Connor"
,"Concepción Ornos"
,"C. Pérez-Iñigo Mora"
,"Carlos Lara-Romero"
,"T. Wood"
,"Concepción Ornos"
,"Concepción Ornos"
,"D. Paredes"
,"D. Romero"
,"David Alomar"
,"F. Javier Ortiz-Sánchez"
,"F. Javier Ortiz-Sánchez"
,"F. López-Núñez"
,"F. Perfectti"
,"Félix Torres"
,"F. Javier Ortiz-Sánchez"
,"Félix Torres"
,"F. Javier Ortiz-Sánchez"
,"H. Gaspar"
,"Ignasi Bartomeus"
,"Isabel María Liberal"
,"Isabel María Liberal"
,"J. Ascher"
,"J. Banaszak"
,"J. Bosch"
,"J. Dusmet"
,"J. Gonzalez-Varo"

```

```
, "J. L. Blanco-Pastor"  
, "J. Loureiro"  
, "J. R. Obeso"  
, "J.A. González"  
, "J. Bosch"  
, "J.D. Alche"  
, "J.D. Asís"  
, "J.M. Gómez"  
, "Javier Herrera"  
, "Javier Morente-López"  
, "Joana Costa"  
, "José Iriondo"  
, "Jose Luis Blanco-Pastor"  
, "Juan Arroyo"  
, "L. Castro"  
, "Luis Navarro"  
, "M. Campos"  
, "M. Miñarro"  
, "M. Porcel"  
, "M.D. Martínez"  
, "M.J. Dardón"  
, "M.L. Fernández"  
, "Montserrat Vilà"  
, "Manuel Baena"  
, "Marina Alonso Solano"  
, "Mario Fernández-Mazuecos"  
, "Carlos Martínez-Núñez"  
, "Miguel A. González-Estévez"  
, "Montserrat Vilà"  
, "Pablo Vargas"  
, "Pablo Vargas"  
, "Pedro Coello"  
, "Pilar de la Rúa"  
, "R. Alcalá"  
, "R. Carvalho"  
, "R. Heleno"  
, "P.J. Rey"  
, "S. Castro"  
, "S. Castro"  
, "S.F. Gayubo"  
, "Victoria Ferrero"  
, "Volker Haeseler")  
  
unique(auth)
```

Contact [nacho.bartomeus@gmail.com](mailto:nacho.bartomeus@gmail.com) if you want to contribute.