



# Distribution of the genus *Platycerus* Geoffroy (Coleoptera, Lucanidae) in Italy

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## Abstract

## Background

Stag beetles are saproxylic *species* that are associated with deadwood in the larval stage and play an important role in forest ecosystem dynamics. In Italy, *Platycerus caprea* and *Platycerus caraboides* are two small, elusive stag beetle *species*, whose known distribution is often limited or referring to old records.

## New information

The present contribution increases the knowledge on the Italian distribution of *P. caprea* and *P. caraboides*, adding 70% more sites when compared to previously published records. Ecological traits, especially related to the altitude-elevation distribution in Italy, are also described for these saproxylic beetles.

## Keywords

biodiversity, conservation, faunistic, forest management, stag beetles, *Platycerus caprea*, *Platycerus caraboides*, saproxylic

## Introduction

Stag beetles (Coleoptera, Lucanidae) are widely distributed throughout the world, with almost 1,600 known *species* in four subfamilies, namely Aesalinae MacLeay, 1819, Syndesinae MacLeay, 1819, Lampriminae MacLeay, 1819 and Lucaninae Latreille, 1804 (Maes 1992, Smith 2006, Fujita 2010, Bouchard et al. 2011). In the subfamily Lucaninae, the genus *Platycerus* Geoffroy, 1762, belonging to the monophyletic tribe Platycerini Mulsant, 1842 (Kim and Farrell 2015), includes more than 50 *species* associated with deciduous forests of the Northern Hemisphere (e.g. Franciscolo 1997, Klausnitzer and Sprecher-Uebersax 2008, Paulsen and Caterino 2009, Fujita 2010, Imura 2010).

Of the seven *Platycerus species* occurring in the Mediterranean Basin (Bartolozzi et al. 2016), four are recorded in Europe: *Platycerus caprea* (De Geer, 1774), *Platycerus caraboides caraboides* (Linnaeus, 1758), *Platycerus pseudocaprea* Paulus, 1970 and *Platycerus spinifer* Schaufuss, 1862 (Vit and Bartolozzi 2013, Bartolozzi et al. 2016b). Despite *P. caprea* and *P. caraboides* being widely distributed in Europe, they are generally uncommon and even locally rare (e.g. Vit and Bartolozzi 2013, Bartolozzi et al. 2016a, Bartolozzi et al. 2016b, Alekseev 2018, Bartolozzi and Cianfanelli 2018, Bekchiev et al. 2018), possibly due to the short flight period of the adults and their cryptic habits (Franciscolo 1997, Holuša et al. 2006). In Italy, larvae of these two *species* live in deadwood, especially in hill and mountain forests across the Peninsula (e.g. Franciscolo 1997, Bartolozzi and Maggini 2007). In the European and Italian IUCN European Red List of *species*, *P. caprea* and *P. caraboides* are of “Least Concern” (Audisio et al. 2014, Carpaneto et al. 2015). Italian laws, such as the Regional Law 56/2000 of Tuscany, report these *species* amongst the taxa that require special attention for habitat conservation (Bartolozzi and Sforzi 2001, Ballerio 2003) and they are included in the saproxylic fauna of relevant interest in forests of protected areas (e.g. PSR 2012, PAER 2013, Regione Emilia Romagna 2018, PIP 2022).

Stag beetles play a vital role in forest ecosystem dynamics, especially where deadwood is abundant. Indeed, most *species* are saproxylic and, thus, depend on dead or decaying wood for their survival: their larvae feed on the woody material colonised by fungi and other microorganisms (e.g. Tanahashi et al. 2009, Tanahashi et al. 2017). *Platycerus caprea* and *P. caraboides* develop in cool, temperate, broadleaf forests and specifically in humid deadwood (Klausnitzer and Sprecher-Uebersax 2008, Lachat et al. 2012, Scaccini 2016, Leidinger et al. 2021, Scaccini 2022). In these habitats, *Platycerus species* may be exploited by predators, parasites and parasitoids that represent another important element of the saproxylic community (Franciscolo 1997, Klausnitzer and Sprecher-Uebersax 2008, Scaccini 2018b, Scaccini 2020). Both *P. caprea* and *P. caraboides* develop on deadwood in a slightly advanced stage of decay, especially in logs small in diameter (< 50 cm) as occurs

for *P. caraboides*, in particular (Scaccini 2016, Scaccini 2022). While *P. caraboides* seems less dependent on the available deadwood amount in the forest, *P. caprea* prefers places with a greater amount of deadwood, especially in cooler sites (Lachat et al. 2012). As reported at least for Asian *species*, *Platycerus* symbionts prefer cool areas for their development (Tanahashi et al. 2017, Zhu et al. 2022), possibly restricting the habitat range of their hosts that may cover cool environments like mountains in the Italian territory.

Italian occurrences of *P. caprea* and *P. caraboides* are often scattered and dated despite these *species* having been investigated since the 19<sup>th</sup> century (e.g. Contarini 1843, Gedler 1863, Ghiliani 1887, Baudi 1889, Stolz 1915, Luigioni 1929, Porta 1932, Müller 1938, von Peez and Kahlen 1977). In these faunistic inventories, distribution data were seldom reported with the indication of precise localities, often requiring further confirmation; this might be the case of *P. caraboides* in Sardinia, reported by Luigioni (1929) and then quoted by Porta (1932) without a critical review. A detailed faunistic analysis of both *species* at a national scale was first provided by Dellacasa (1966) and, later, by Franciscolo (1997) and Bartolozzi and Maggini (2007), which included data collected up to 2001; a review of the distributions of the two Italian *Platycerus* for the last two decades is currently lacking.

This contribution aims to update *Platycerus* spp. distribution for Italy by revising the existing literature, summarising the present knowledge and adding new records. This overview greatly improves our understanding of *P. caprea* and *P. caraboides* occurrence in Italy and will be an important starting point for future analyses and actions aimed at the conservation of these two *species*.

## Materials and methods

### Geographic coverage

Data collection covered all the 20 administrative regions of Italy, with a latitudinal range from 35.490° to 47.093° N and a longitudinal range from 6.626° to 18.519° E. Since no *Platycerus* is present on Italian islands, based on the updated literature, the research was mainly focused on the mainland (18 administrative regions), which covers an area of almost 250,000 km<sup>2</sup>, with the southernmost point at 37.916° N.

### Data resources

To produce the most updated set of faunistic records for both *P. caprea* and *P. caraboides* in Italy, we performed extensive data-mining on online databases and social networks, a careful revision of private and public collections (see Acknowledgements section), a review of the literature and multiple field surveys. Field surveys were conducted in various forest areas in Italy, after selecting each site by considering the available information on habitat requirements and distribution of these two *species*, as well as thanks to the experience on the subject of one of the authors (D. Scaccini, Fig. 1a-d). Forests with a considerable amount of deadwood were preferred during site selection. Once on site, surveys were

generally conducted by searching for *Platycerus* in deadwood material like logs, stumps and snags, carefully opening them by hand, sometimes with the help of a knife or chisel. The presence of oviposition scars on the deadwood surface helped while performing this research (Scaccini 2016, Scaccini and Uliana 2017, Scaccini 2018a, Scaccini 2022, Fig. 1 e,f). Data-mining was conducted on online resources such as “[Forum Entomologi Italiani](#)” and “[Natura Mediterraneo](#)”, as well as in GBIF (2023a) and GBIF (2023b). Material from all the available literature was used, especially that in Italian, English and German. Information present on specimen labels is reported *verbatim*. The data presented in this study were collected up to the 31 December 2023.

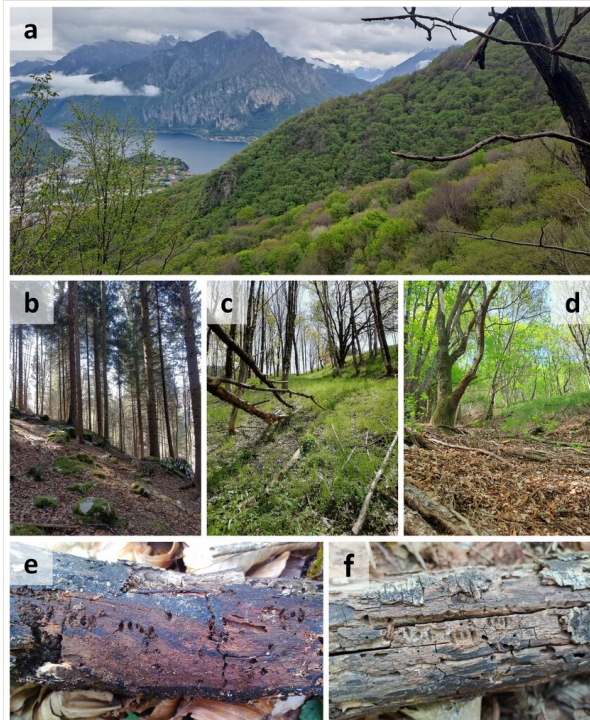


Figure 1. [doi](#)

Habitats of *Platycerus* in Italy. **a** Panoramic view of biotopes of *Platycerus caraboides* in April, Lecco Province; **b** Habitat of *Platycerus caprea* in March, 1100 m a.s.l., Vicenza Province; **c** Habitat of *P. caraboides* in May, 1000 m a.s.l., Bergamo Province; **d** Habitat of *P. caraboides* in April, 450 m a.s.l., Treviso Province; **e, f** *Platycerus* oviposition scars on deadwood. Photo credit: D. Scaccini.

## Species identification

Stag beetles collected during field surveys were identified both at larval and adult stages with the help of a magnification lens. Adults collected in the field and those from entomological collections were identified to the specific level by inspecting their genitalia whenever it was possible, for both males and females. For males, we considered, in

particular, the margins of the paramera, while for females, we inspected the morphological characters on their gonostyli (e.g. Dellacasa 1966, Franciscolo 1997, Ballerio 2003, Brustel and Van Meer 2020, Figs 2, 3). For the material retrieved online, the identification was performed on external diagnostic features of the adults as reported in the abovementioned identification keys and on their genitalia features when available. Data of insects with doubtful location and/or identification were not considered in the present work. For immature stages found during field surveys, *species* identification was performed on third-instar larvae using external characters following Hürka (1975) and Franciscolo (1997), considering the observations reported by Scaccini (2015). Pupae were reared to the adult stage to validate *species* identification.

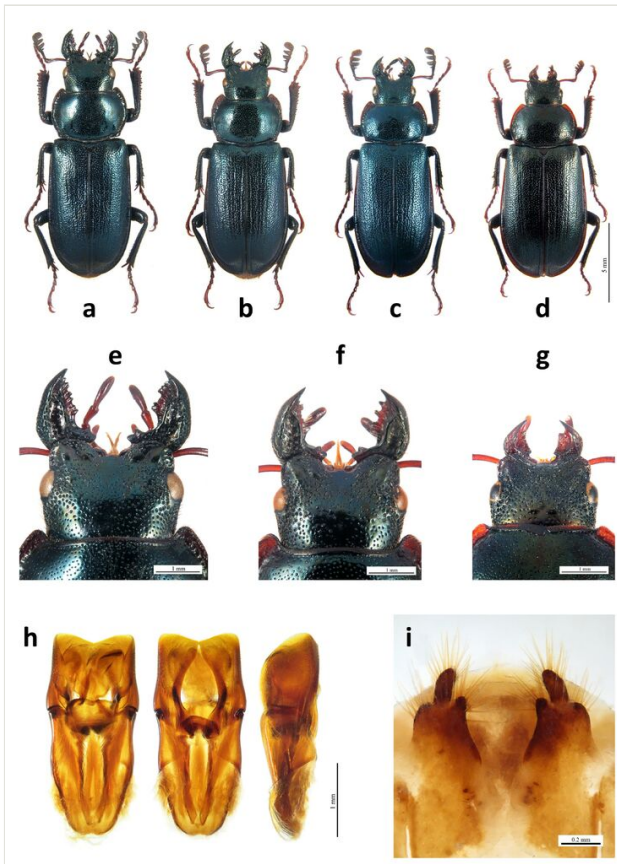


Figure 2. [doi](#)

Habitus of *Platycerus caprea* adults collected in Italy. **a** Male, Vercelli Province, Alagna Valsesia, 16.VI.2012; **b** Male, Bergamo Province, Zambla, 19.X.1969; **c** Male, Bergamo Province, Zambla, 19.X.1969; **d** Female, Bergamo Province, Zambla, 19.X.1969; **e** Magnification of the head, specimen in (a); **f** Magnification of the head, specimen in (b); **g** Magnification of the head, specimen in (d); **h** Male genitalia, specimen in (b); **i** Female styli, specimen in (d). Photo credit: M. Zilioli.



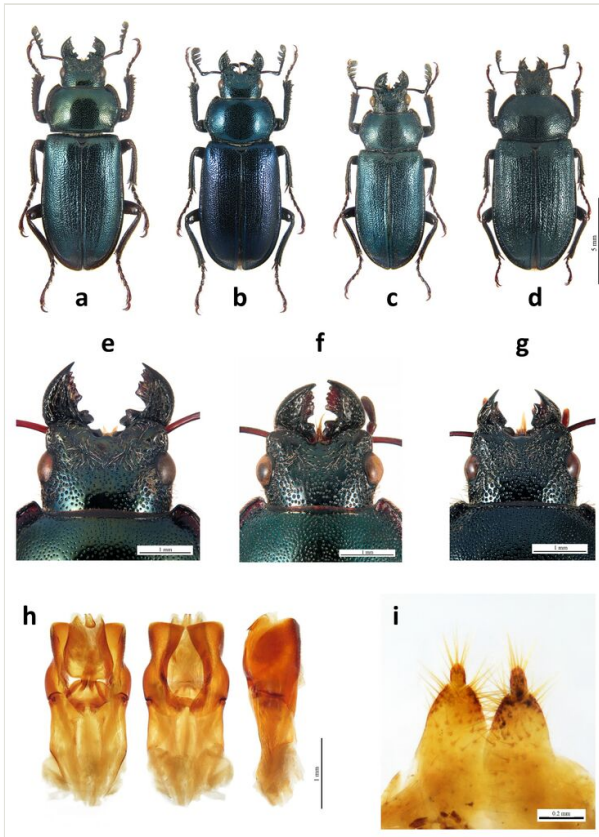


Figure 3. [doi](#)

Habitus of *Platycerus caraboides* adults collected in Italy. **a** Male, Alpi Cozie, Val di Susa (collection date is not available); **b** Male, Bolzano Province, Tires, 11.VI.2010; **c** Male, Piacenza Province, Ferriere (surroundings), 8.V.1969; **d** Female, Bergamo Province, Piazzolo, 14.VIII.2013; **e** Magnification of the head, specimen in (a); **f** Magnification of the head, specimen in (c), re-pinned; **g** Magnification of the head, specimen in (d); **h** Male genitalia, specimen in (a); **i** Female styli, specimen in (d). Photo credit: M. Zilioli.

## Data analysis

The distribution maps of *P. caprea* and *P. caraboides* were built with QGIS (v. 3.4.2-Madeira) using a raster layer file of Italian regions retrieved from Geoportale Nazionale (2023), projected in WGS84. Points were classified as follows, according to their year of collection: (i) before 1923 (i.e. more than 100 years ago), (ii) from 1923 to 1973 (51 to 100 years ago) and (iii) from 1974 to 2023 (in the last 50 years). When information on the year was not available, we indicated a putative period (reported as "abt.") that was based on the year of publication in case of published material and on the period of activity of the collector in case of field collection data. In a few cases, when this information could not be retrieved, it was left as "n.a.". For each stag beetle *species*, differences in the three periods

were represented by region of Italy with descriptive statistics. Elevation data for the sampled points were also taken into account, including those provided on the label and those obtained from sites with specific coordinates. When the elevation on the label was indicated as a range, in the elaboration, we considered the mean value. The occurrence of *P. caprea* and *P. caraboides* at different elevations on a latitudinal gradient was tested with linear regressions plotting seven 1°-width latitude classes (i.e.  $x < 41$ ,  $41 \leq x < 42$ ,  $42 \leq x < 43$ ,  $43 \leq x < 44$ ,  $44 \leq x < 45$ ,  $45 \leq x < 46$  and  $x \geq 46^\circ$  N) as the independent variable and the elevation as the dependent variable. Regression lines were run through an F test ( $\alpha = 0.05$ ), performed in R version 4.2.1 (R Core Team 2012) by using RStudio (RStudio Team 2016) with "stargazer" (Hlavac 2022). In this analysis, linear and quadratic models were tested for each *species* and comparisons between the models were made to select the one with the best fit using analysis of variance (ANOVA) and ranking the models, based on the Akaike Information Criterion (AIC).

## Taxon treatments

### *Platycerus caprea* (De Geer, 1774)

#### Materials

- a. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: L'Aquila; locality: Monte Ruella; verbatimElevation: 900; year: 1996; month: 5; day: 17; individualCount: 1; lifeStage: adult; recordedBy: leg. P. Cerretti; institutionCode: Coll. Museo Civico di Zoologia di Roma; occurrenceID: F1506AAF-20CB-5AC9-8085-3BE19CD0E70F
- b. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Teramo; municipality: Ceppo; locality: Rocca Santa Maria; verbatimElevation: 1340; decimalLatitude: 42.671389; decimalLongitude: 13.465; geodeticDatum: WGS84; year: 2019; month: 6; day: 4; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. De Vitis; institutionCode: Coll. F. Tomasi; occurrenceID: B9A08926-31A2-5FD4-9C86-94AB4F178185
- c. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Potenza; municipality: Abriola; verbatimElevation: 1350; year: 2022; month: 4; day: 25; individualCount: 7; lifeStage: adult; recordedBy: leg. Nappini; occurrenceID: E4D50666-F176-5F6B-90F6-A343276EE681
- d. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; locality: Monte Sila, Botte Donato, Strada delle Vette; verbatimElevation: 1400; year: 2022; month: 5; day: 26; individualCount: 5; sex: 2 males, 3 females; lifeStage: adult; recordedBy: leg. D. Patacchiola; occurrenceID: FFC6AAD4-673E-557F-8894-3BD7A47337AF
- e. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Salerno; locality: Monte Cervati; verbatimElevation: 1800; year: 2018; month: 5; day: 26; individualCount: 1; lifeStage: adult; institutionCode: Coll. A. Carlin; occurrenceID: FCCD2C37-0825-5EC6-9AB1-2B62AD57C495
- f. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Forli-Cesena; locality: Campigna; year:

- 1948; month: 6; day: 6; individualCount: 1; sex: male; lifeStage: adult; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 2DB8F49F-481C-5084-AABA-D035E6E36F8F
- g. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Forlì-Cesena; locality: Foresta di Campigna; year: 2001; month: 6; day: 17; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. F. Callegari); occurrenceID: 5F7B6774-7557-5EF6-A9EF-990236D208FB
- h. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Parma; municipality: Corniglio; locality: Lago Santo; year: 1968; month: 6; day: 23; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Bin; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 07FD33BB-E46D-5887-A96B-0B61A9111415
- i. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Piacenza; municipality: Ferriere; locality: Groppo delle Ali; verbatimElevation: 1600; year: 1967; month: 5; day: 20; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Bin; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: E763F51C-50DD-5139-8750-0729E79219F7
- j. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Pordenone; locality: Bosco del Cansiglio; year: 1956; month: 6; day: 8; individualCount: 1; sex: female; lifeStage: adult; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. G. Agazzi); occurrenceID: E4072746-1453-5050-8E17-48C445B59E19
- k. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Riofreddo; locality: Alpi Giulie; year: 1951; month: 7; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. C. Alzona; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 3088962A-3674-580B-B3D6-AF42A2E5880C
- l. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Tarvisio; locality: Cernkerla; verbatimElevation: 957; decimalLatitude: 46.48592; decimalLongitude: 13.6332; geodeticDatum: WGS84; year: 2023; month: May/June; sex: several m. and f.; lifeStage: adult; recordedBy: leg. L. Deganutti; occurrenceID: 8D2EABA2-CE37-5872-9BBB-2AC7B9D3B694
- m. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Tarvisio; locality: Coccou; verbatimElevation: 935; decimalLatitude: 46.53189; decimalLongitude: 13.62325; geodeticDatum: WGS84; year: 2023; month: May/June; individualCount: 4; sex: males; lifeStage: adult; recordedBy: leg. L. Deganutti; occurrenceID: A77E7033-FD3A-5A0C-904F-351D74EFA29E
- n. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Tarvisio; locality: Lago superiore di Fusine; verbatimElevation: 944; decimalLatitude: 46.47157; decimalLongitude: 13.67272; geodeticDatum: WGS84; year: 2023; month: May/June; sex: several m. and f.; lifeStage: adult; recordedBy: leg. L. Deganutti; occurrenceID: 52F4FFFC-0D64-540E-85C3-A4070797014C
- o. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Tarvisio; locality: Schöneke; verbatimElevation: 1075; decimalLatitude: 46.48204; decimalLongitude: 13.63282; geodeticDatum: WGS84; year: 2023; month: May/June; sex: several m. and f.;



- lifeStage: adult; recordedBy: leg. L. Deganutti; occurrenceID: 11B02D26-7E3F-5001-B835-463640F3188D
- p. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Tarvisio; locality: Tamer (Alpe del Lago); verbatimElevation: 1013; decimalLatitude: 46.45873; decimalLongitude: 13.66645; geodeticDatum: WGS84; year: 2023; month: May/June; sex: several m. and f.; lifeStage: adult; recordedBy: leg. L. Deganutti; occurrenceID: 377E64B7-BF82-51A5-AB96-618558929270
- q. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Udine; municipality: Valbruna; year: 1980; month: 7; day: 13; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. E. Bernabò; institutionCode: Coll. Museo Civico di Storia Naturale di Carnagnola; occurrenceID: 90101768-E02E-5291-BF7B-DA004D1EA0CA
- r. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Genova; locality: Monte Penna; year: 1937; month: 9; day: 6; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. C. Menozzi; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 36445C6D-D93F-5F9D-B8EB-FACB7FAD8CC8
- s. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Genova; municipality: Monte Montarlone; locality: Val Trebbia; year: 1977; month: 4; day: 24; individualCount: 2; sex: females; lifeStage: adult; recordedBy: leg. E. Bernabò; institutionCode: Coll. Museo Civico di Storia Naturale di Carnagnola; occurrenceID: 008D4565-8F6E-5E45-942B-755489795094
- t. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Imola; locality: Val Tanarello; verbatimElevation: 1000; year: 1994; month: 6; day: 7-15 (mean 11); individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Callegari; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. F. Callegari); occurrenceID: 53037B16-9649-5E78-9291-35C68B38EACB
- u. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; locality: Manderiolo (?); year: 1952; month: 5; individualCount: 2; sex: males; lifeStage: adult; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 56081283-9996-5E28-BB8E-FADE74C9C55F
- v. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; locality: Monte Venturosa; year: 1988; month: 6; day: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. L. Galbiati; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 4CCEF73A-79BB-5001-A65F-BDFF2E01792B
- w. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Brumano; locality: rifugio Azzoni; verbatimElevation: 1850; decimalLatitude: 45.858196; decimalLongitude: 9.470646; geodeticDatum: WGS84; year: 2018; month: 6; day: 18; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: E9D6A031-0662-53D6-9DE3-CA720AF23D0B
- x. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Camerata Cornello; locality: trail to passo Grialeggio; verbatimElevation: 1450; year: 2009; month: 4; day: 30; individualCount: 1; lifeStage: adult; recordedBy: leg. W. Zucchelli; institutionCode: Coll. Museo Civico di Scienze Naturali Enrico Caffi di Bergamo; occurrenceID: D4C0DAD8-0C75-520C-9064-D51DD351E80E

- y. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Carona; verbatimElevation: 1220; decimalLatitude: 46.020467; decimalLongitude: 9.791219; geodeticDatum: WGS84; year: 2015; month: 12; day: 6; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; occurrenceID: E8989560-48C8-554A-8707-0D7109249EDF
- z. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Carona; verbatimElevation: 1202; decimalLatitude: 46.021864; decimalLongitude: 9.793178; geodeticDatum: WGS84; year: 2015; month: 12; day: 6; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; occurrenceID: B1CB5799-D703-516A-B10E-5D474B2E68F0
- aa. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Cassiglio; verbatimElevation: 618; decimalLatitude: 45.965013; decimalLongitude: 9.609443; geodeticDatum: WGS84; year: 2018; month: 8; day: 17; individualCount: 1; lifeStage: larva; recordedBy: leg. F. Tomasi; institutionCode: Coll. F. Tomasi; occurrenceID: 7D6C8D0A-D635-53FD-AE82-953ED5543B0D
- ab. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Castione della Presolana; locality: close to Baita Cassinelli; verbatimElevation: 1600; decimalLatitude: 45.942887; decimalLongitude: 10.077021; geodeticDatum: WGS84; year: 2006; month: 6; day: 25; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: B5E79655-BC73-5101-A909-225D0CC7BF16
- ac. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Mezzoldo; verbatimElevation: 1800; year: 2005; month: 6; day: 5; individualCount: 1; lifeStage: adult; recordedBy: leg. P. Pantini; institutionCode: Coll. Museo Civico di Scienze Naturali Enrico Caffi di Bergamo; occurrenceID: 2A7D56C3-30F6-59AE-A12C-6BDD9BFB2DA3
- ad. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Oltre il Colle; locality: close to "rifugio Cà d'Arera"; verbatimElevation: 1560; decimalLatitude: 45.916607; decimalLongitude: 9.794777; geodeticDatum: WGS84; year: 2015; month: 6; day: 20; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 6A47AA0A-BAC0-5074-B6AE-00CB48670873
- ae. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Plassa; verbatimElevation: 1583; decimalLatitude: 45.917163; decimalLongitude: 9.795349; geodeticDatum: WGS84; year: 2015; month: 6; day: 20; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 89E098C2-B647-599C-90C5-4B733BB9AC09
- af. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Roncobello; verbatimElevation: 1116; decimalLatitude: 45.952194; decimalLongitude: 9.748489; geodeticDatum: WGS84; year: 2018; month: 12; day: 30; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. D. Scaccini; occurrenceID: 85555403-3738-52E2-B327-2BB622575DA4

- ag. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Schilpario; locality: Val dei Gatti; verbatimElevation: 1200; decimalLatitude: 46.011724; decimalLongitude: 10.168437; geodeticDatum: WGS84; year: 2020; month: 6; day: 18; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: E34149C0-ECDF-584E-BE7B-B8416DFCF7CF
- ah. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Serina; locality: Col di Zambila; verbatimElevation: 1200; year: 1969; month: 10; day: 19; individualCount: 22; sex: males; lifeStage: adult; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 51B6E41A-A0AB-5541-8711-26BD4BB80AAB
- ai. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Sovere; locality: close to Monte Palandone; verbatimElevation: 1300; decimalLatitude: 45.821676; decimalLongitude: 9.982213; geodeticDatum: WGS84; year: 2017; month: 6; day: 2; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 3689D754-FE13-5E62-B7D6-DE176F92E5AD
- aj. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; municipality: Zambila Alta; year: 1981; month: 10; day: 11; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. L. Galbiati; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: B13866F7-7DEF-5C45-AF09-7FBFD3081953
- ak. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; locality: Passo Baremone; verbatimElevation: 1500; year: 1998; month: 6; day: 2; individualCount: 2; lifeStage: adult; recordedBy: leg. Petruzzello; institutionCode: Coll. P. Leo; occurrenceID: 9E1745EA-AA56-53BD-B0AD-994861F7266E
- al. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; municipality: Artoagne; locality: Prato Secondino; verbatimElevation: 1420; decimalLatitude: 45.836235; decimalLongitude: 10.217265; geodeticDatum: WGS84; year: 2015; month: 5; day: 31; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. D. Scaccini & D. Pedersoli; institutionCode: Coll. D. Scaccini; occurrenceID: C989BF60-CD9A-5A56-84C2-CC748B117806
- am. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; municipality: Corteno Golgi; locality: close to Malga Casazza; verbatimElevation: 1500; decimalLatitude: 46.116537; decimalLongitude: 10.229236; geodeticDatum: WGS84; year: 2021; month: 6; day: 5; individualCount: 2; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: D7E41DED-AE24-5FAD-89A4-311D93717858
- an. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; municipality: Pisogne; locality: torrente Palot; verbatimElevation: 1140; decimalLatitude: 45.806375; decimalLongitude: 10.147784; geodeticDatum: WGS84; year: 2012; month: 5; day: 23; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 0DF70D91-8844-595E-9D8A-7F092166B4EE
- ao. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; municipality: Savio dell'Adamello; locality: Scale dell'Adamè; verbatimElevation: 1700; decimalLatitude:

- 46.082971; decimalLongitude: 10.490184; geodeticDatum: WGS84; year: 2022; month: 5; day: 22; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: A76B0A27-B8F2-58A7-B43D-3C94765CF0A2
- ap. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; municipality: Vedeseta; verbatimElevation: 1025; decimalLatitude: 45.898611; decimalLongitude: 9.548889; geodeticDatum: WGS84; year: 2019; month: 3; day: 22; individualCount: 2; lifeStage: larva; recordedBy: leg. E. Scarso; institutionCode: Coll. F. Tomasi; occurrenceID: 724F7E4C-9A4C-54EB-A422-2FC452A2073E
- aq. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Brescia; municipality: Vione; locality: Predassino; verbatimElevation: 1300; decimalLatitude: 46.234978; decimalLongitude: 10.441556; geodeticDatum: WGS84; year: 2022; month: 5; day: 28; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: DBCA2131-F53C-54FA-AB17-F35E60F05B48
- ar. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Como; locality: Parco Monte S. Primo; year: 1957; month: 9; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. Gentili; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 91DA3A7C-23A5-5398-A571-3A122A3A3940
- as. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Como; municipality: Colmine; year: 1965; month: 3; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. Gentili; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: A36A80EF-54B8-5F57-99F7-24ACD01D7DD6
- at. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Como; municipality: Orimento; verbatimElevation: 1350; year: 1960; month: 5; day: 25; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. G. Pozzi; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 0EF7EA7B-97DD-5DAB-9826-5727BC26C779
- au. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Lecco; locality: Monte Resegone; year: 1944; month: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. C. Brivio; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 560DFA1E-F864-5E20-8EAD-92EA632A29C7
- av. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Lecco; municipality: Culmine di San Piero; year: 2003; month: 5; day: 28; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. C. Brivio; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 68ADEFF3-59B3-5F38-833E-55CE08E0875C
- aw. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Sondrio; municipality: Bema; locality: Alpe Vesenda bassa; verbatimElevation: 1460; decimalLatitude: 46.114167; decimalLongitude: 9.597788; geodeticDatum: WGS84; year: 2007; month: 6; day: 14; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 171EF461-A5F4-5FC1-B56C-F87A8E34352B
- ax. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Sondrio; municipality: Chiareggio; year: 1959; month: 6; day: 27; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg.

- R. Rossi; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 5BA9F66F-2809-5C5A-A841-697E04497E69
- ay. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Sondrio; municipality: Villa di Tirano; locality: torbiera Pian del Gembro occ.; verbatimElevation: 1350; decimalLatitude: 46.164895; decimalLongitude: 10.160593; geodeticDatum: WGS84; year: 2012; month: 5; day: 12; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 2C2BF7E9-6ECD-55E7-A2BF-C101CAC4A9AB
- az. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Varese; municipality: Bedero Valcuvia; year: 1971; month: 5; day: 9; individualCount: 1; sex: female; lifeStage: adult; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: B28B593D-43A6-5D72-AF7A-6571FE007694
- ba. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Biella; locality: close to (cf.) Bocchetto; year: 1977; month: 6; day: 24; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curletti; occurrenceID: 576441F1-BF50-585D-80B2-DB405928D9EF
- bb. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Biella; locality: close to Bocchette SS., Val Sessera; year: 1977; month: 6; day: 24; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: A43E6BB1-9688-580D-81B2-3BDAB444407C
- bc. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Biella; municipality: Biella; locality: Santuario di Oropa; verbatimElevation: 1200; year: 1964; month: 5; day: 17; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. G. Mariani; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: E6F43177-F79B-530D-A9FD-2C12726B6CB4
- bd. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Biella; municipality: Bocchetto Sessera; verbatimElevation: 1200–1600; year: 1993; month: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. F. Callegari); occurrenceID: A4813B7C-38D5-52F1-A8FE-59DF06450E1D
- be. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Cuneo; municipality: Upega; verbatimElevation: 1300; year: 1994; month: 6; day: 3-15 (mean 9); individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. F. Callegari); occurrenceID: 840E9588-1DAD-564F-B235-E9D8D8242E03
- bf. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Torino; municipality: Andrate; locality: S. Giacomo; year: 1972; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; institutionCode: Coll. G. Taroni; occurrenceID: 85F231AF-015D-56CB-84A2-173C066DFE04
- bg. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Torino; municipality: Prali; locality: Val Germanasca; year: 1974; month: 7; individualCount: 1; sex: male; lifeStage: adult;



- recordedBy: leg. Rochat; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 898CB0EF-5B43-5495-B6CF-7374EDF7A1CE
- bh. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: -; locality: Val Cavaione; year: 1985; month: 6; day: 10; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curlletti; occurrenceID: 805A341F-60D5-5508-8495-4575116B1229
- bi. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Alagna Valsesia; verbatimElevation: 1300; year: 2012; month: 6; day: 16; individualCount: 1; sex: male; lifeStage: adult; institutionCode: Coll. M. Zilioli; occurrenceID: 2BE97A52-48F2-5E60-8341-518DA6AB8824
- bj. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Boccioleto; locality: Val Sesia, Val Cavione; year: 1985; month: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: F371D58E-3997-53CC-A8C8-B2E7B5AAA7DA
- bk. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Carcoforo; locality: Val Sesia; verbatimElevation: 1300; year: 2008; month: 6; day: 1; individualCount: 1; sex: male; lifeStage: adult; institutionCode: Coll. M. Zilioli; occurrenceID: 7BB9666B-D598-57CC-9460-855CF99F2132
- bl. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Fobello; locality: Val Sesia; year: 1987; month: 6; day: 6; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curlletti; occurrenceID: 060DB0A5-6166-5C25-B960-FC9217B4387E
- bm. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Fobello; locality: Val Sesia, Fobello-Roi; year: 1987; month: 6; day: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: 8AE27F82-448C-5161-A8B6-6018DCFAAB3D
- bn. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Pila; locality: Val Sesia; year: 1984; month: 6; day: 10; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: 46871B75-484C-554B-AD96-CA189894E70C
- bo. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Pila; locality: Val Sesia, Lagone; year: 1985; month: 6; day: 18; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: 335FFA8C-9E50-5958-B81F-E643AA74D751
- bp. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Pila; locality: Val Sesia, Pila, Lagone; year: 1985; month: 6; day: 18; individualCount: 2; lifeStage: adult; recordedBy: leg. G. Curlletti; occurrenceID: B8AE5BA1-56E6-563F-8078-8F352544A3AC
- bq. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Pila; locality: Vallée Sessera; year: 1989; month: 6; day: 11; individualCount: 2; lifeStage: adult; recordedBy: leg. G. Curlletti; occurrenceID: B050D978-D683-579C-AC76-E15578910BA9
- br. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Pila; year: 1984;

- month: 6; day: 10; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curletti; occurrenceID: 58BE32E2-0F26-596D-A891-11A0AD38E76A
- bs. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Riva Valdobbia; year: 1990; month: 9; day: 8; individualCount: 1; lifeStage: adult; institutionCode: Coll. P. Leo; occurrenceID: 7B7D1FB4-5625-535C-AB30-CBF8DA8EAD54
- bt. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Scopello; locality: Alpe di Mera; verbatimElevation: 1350; year: 2000; month: 5; day: 28; individualCount: 3; sex: males; lifeStage: adult; recordedBy: leg. M. Zilioli; institutionCode: Coll. M. Zilioli; occurrenceID: 51CCE555-3948-5947-8AEA-A19FEFEE9B1F
- bu. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Scopello; locality: Alpe di Mera, Val Sesia; verbatimElevation: 1500; year: 1995; month: 5; day: 28; individualCount: 3; sex: males; lifeStage: adult; recordedBy: leg. Colombini; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 8638EAC4-75BE-5C68-A73F-D3DD4FDDD38D
- bv. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Scopello; locality: trail to Mera; verbatimElevation: 1300; year: 1974; month: 6; day: 2; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: D0869E56-B112-5B87-A0D9-CBE26C412774
- bw. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Scopello; year: 1984; month: 6; day: 2; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curletti; occurrenceID: 39C8E4C7-BD42-50A9-9550-E0740E0C5C74
- bx. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vercelli; municipality: Scopello; year: 1994; month: 5; day: 15; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Pescarolo; institutionCode: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: 52DE6835-DA41-508C-B683-C5A974383D56
- by. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bolzano; municipality: Campo di Trens; locality: close to Mules; verbatimElevation: 882; year: 2017; month: 10; day: 28; individualCount: 1; lifeStage: adult; recordedBy: leg. Nappini; occurrenceID: 7C3CF0B1-DC4C-5CE7-9914-D307D1DC0B8F
- bz. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bolzano; municipality: Dobbiaco; locality: Carbonin; verbatimElevation: 1400; year: 1962; month: 8; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Callegari; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. F. Callegari); occurrenceID: 3FB09D57-0137-5268-8385-F70C90F0C310
- ca. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bolzano; municipality: Ortisei; locality: Val Gardena; year: 1939; month: 7-8; individualCount: 2; sex: females; lifeStage: adult; recordedBy: leg. C. Alzona; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 367C28DD-08DB-5908-A327-460EDFD85D68
- cb. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bolzano; municipality: Val di Vizze;

- verbatimElevation: 1039; year: 2018; month: 11; day: 18; individualCount: 1; lifeStage: adult; recordedBy: leg. Nappini; occurrenceID: 2C57966E-7A53-567C-A245-45BB6F8011F8
- cc. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; locality: Monte Baldo; year: 1929; month: 5; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. M. Burlini; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 0F9956DA-D22D-57E0-BB51-D15D0FE02FA4
- cd. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; locality: Val Genova; year: 1949; month: 6; day: 1; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. S. Guareschi; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 4110D446-2F9A-586C-9A00-E2FCC37D8909
- ce. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; locality: Val Genova; verbatimElevation: 1300; year: 1963; month: 6; day: 13; individualCount: 3; sex: males; lifeStage: adult; recordedBy: leg. Callegari; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. F. Callegari); occurrenceID: 4B62C90E-853D-5531-9D12-6AE0FD89A948
- cf. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; municipality: Campiglio; locality: Val di Piera; year: 1957; individualCount: 1; sex: female; lifeStage: adult; institutionCode: Coll. G. Taroni; occurrenceID: CADF380C-9B00-54B8-BB67-BA6C077F85E7
- cg. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; municipality: Ledro - Tiarno di Sopra; locality: trail from Lago d'Ampola to passo Tremalzo; verbatimElevation: 1150; decimalLatitude: 45.864382; decimalLongitude: 10.659762; geodeticDatum: WGS84; year: 2008; month: 5; day: 17; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; institutionCode: Coll. D. Pedersoli; occurrenceID: 7A252C7A-EF0D-5346-80D9-B71439897994
- ch. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; municipality: Sagron; year: 1929; month: 7; individualCount: 1; sex: female; lifeStage: adult; institutionCode: Coll. Museo di Storia Naturale di Venezia (coll. G. Bosa, Seminario Patriarcale di Venezia); occurrenceID: A1131A03-C094-5FCC-8B8D-7CE1FBE071F0
- ci. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; municipality: Sella Giudicarie; locality: Lardaro; year: 1959; month: 8; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Chatel; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 8BE732E6-E483-5CDA-807C-252437005EB4
- cj. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; municipality: Tenno; locality: Lago di Tenno; verbatimElevation: 600; year: 2005; month: 6; day: 10; individualCount: 1; lifeStage: adult; recordedBy: leg. Petruzzello; institutionCode: Coll. P. Leo; occurrenceID: 792509B1-FF55-5445-827F-AD9E603F06B6
- ck. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Trento; municipality: Trento; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. M. Burlini; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: F481005A-E928-5B81-BFBA-060918D3BF66

- cl. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Lucca; municipality: Minucciano; locality: Alpi Apuane; year: 1920; month: 6; day: 15; individualCount: 1; sex: male; lifeStage: adult; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: D7911914-22BF-51C8-9254-08FEF0E97AE7
- cm. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; locality: "alta Val Serais"; year: 1955; month: 7; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. G. Cadamuro; institutionCode: Coll. Museo di Storia Naturale di Venezia; occurrenceID: E8B8C7CE-0C58-571E-AD54-D19641B3C29E
- cn. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; locality: California; year: 1931; month: 6; day: 18; individualCount: 1; sex: female; lifeStage: adult; institutionCode: Coll. Museo di Storia Naturale di Venezia (coll. G. Bosa, Seminario Patriarcale di Venezia); occurrenceID: 096E9F50-09CB-58B8-866D-E951A9A8A09A
- co. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; locality: Cansiglio; year: 1957; month: 7; day: 1; individualCount: 2; sex: males; lifeStage: adult; institutionCode: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 2CB9F89C-8B38-5639-98BD-D49D94EA66EC
- cp. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; locality: Cansiglio; year: 1955; month: 7; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. G. Cadamuro; institutionCode: Coll. Museo di Storia Naturale di Venezia; occurrenceID: BD4D16C8-E607-5460-AFB6-0CC867983329
- cq. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; locality: Val Resia; year: 1956; month: 5; day: 3; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. G. Agazzi; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. G. Agazzi); occurrenceID: 37CEEDD4-0046-564D-9C31-89761C1D9A49
- cr. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; municipality: Canale d'Agordo; locality: Canale d'Agordo, Val Gares; decimalLatitude: 46.357721; decimalLongitude: 11.927711; geodeticDatum: WGS84; year: 1984; month: 7; day: 23; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. F. Giannone; institutionCode: Coll. D. Scaccini; occurrenceID: 9475762D-2A42-59B7-9301-7F653E580F41
- cs. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; municipality: Canale d'Agordo; locality: Canale d'Agordo, Val Gares; decimalLatitude: 46.357616; decimalLongitude: 11.924225; geodeticDatum: WGS84; year: 1994; month: 6; day: 19; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. F. Giannone; institutionCode: Coll. D. Scaccini; occurrenceID: 6DCBAB7E-FD07-5D6E-820D-828DD07BB4D3
- ct. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; municipality: Lorenzago; locality: Val dell'Orso; year: 1968; month: 7; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. L. Bonometto; institutionCode: Coll. Museo di Storia Naturale di Venezia; occurrenceID: AD2B4438-113C-5A98-9769-398ECA3B824C
- cu. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; municipality: San Vito di Cadore; year: 1955; month: 7; day: 4-10 (mean 7); individualCount: 1; sex: female; lifeStage:

- adult; recordedBy: leg. P. Fontolan; institutionCode: Coll. Museo di Storia Naturale di Venezia (ex coll. G. Agazzi); occurrenceID: 25F2CBCF-C16C-5385-9B17-C920BFF7E7A3
- cv. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; municipality: Asiago; locality: close to Forte Interrotto; verbatimElevation: 1369; decimalLatitude: 45.977543; decimalLongitude: 11.177685; geodeticDatum: WGS84; year: 2023; month: 1; day: 15; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Scaccini; occurrenceID: 6F8B5538-48EF-58A5-BBC8-6694B3E108E5
- cw. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; municipality: Asiago; locality: trail to Forte Interrotto; verbatimElevation: 1259; decimalLatitude: 45.893206; decimalLongitude: 11.482112; geodeticDatum: WGS84; year: 2023; month: 1; day: 15; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Scaccini; occurrenceID: 658ADECC-DB46-5C0E-A031-B8A96F5FB856
- cx. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; municipality: Tresché Conca (Asiago); verbatimElevation: 1104; decimalLatitude: 45.828672; decimalLongitude: 11.441061; geodeticDatum: WGS84; year: 2019; month: 3; day: 30; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. D. Scaccini; institutionCode: Coll. D. Scaccini; occurrenceID: A870B1B4-A4A1-592D-B26C-B3C4FD00CE49
- cy. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Parma; county: Corniglio; municipality: Lagdei, Lago di Guadine, Riserva Guadine Pradaccio; locality: Monte Ruella; verbatimElevation: 1362; decimalLatitude: 44.397441; decimalLongitude: 10.018822; geodeticDatum: WGS84; year: 2008; month: 5; day: 23; individualCount: 2; lifeStage: adult; recordedBy: leg. G. Nardi & M. Bardiani; occurrenceID: 04554D5C-D885-57B4-A675-61B0110A0819
- cz. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Parma; county: Corniglio; municipality: Lagdei, torbiera Roccabianca, Riserva Guadine Pradaccio; locality: Rocca Santa Maria; verbatimElevation: 1440; decimalLatitude: 44.393245; decimalLongitude: 10.021901; geodeticDatum: WGS84; year: 2008; month: 5; day: 23; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Nardi & M. Bardiani; occurrenceID: 07C789E6-0DFB-5064-9A7E-E715824B37C3
- da. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Belluno; county: Lorenzago di Cadore; municipality: Valdescuro; verbatimElevation: 1149; decimalLatitude: 46.471389; decimalLongitude: 12.472222; geodeticDatum: WGS84; year: 2013; month: 5-6; day: 30 (5) - 15 (6); individualCount: 1; lifeStage: adult; recordedBy: leg. G.E. Feltrin; occurrenceID: 58FDAC88-912E-5CF5-88F9-953E351A801A
- db. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Treviso; county: Fregona; municipality: Bosco Cansiglio; locality: Monte Sila, Botte Donato, Strada delle Vette; verbatimElevation: 1340; decimalLatitude: 46.041767; decimalLongitude: 12.375483; geodeticDatum: WGS84; year: 2013; month: 6; day: 11-24; individualCount: 3; lifeStage: adult; recordedBy: leg. F. Bona; occurrenceID: 8DC2714F-D38E-587E-BA6F-208A3F336620
- dc. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Bergamo; county: Carona; municipality: Site 3; locality: Monte Cervati; verbatimElevation: 1194; decimalLatitude: 46.024506;



- decimalLongitude: 9.794025; geodeticDatum: WGS84; year: 2024; month: 12; day: 29; individualCount: 3; lifeStage: larva; recordedBy: leg. D. Scaccini; occurrenceID: A8C98AE5-F5B1-58FD-8AA1-8FF63475793E
- dd. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; municipality: Sentiero Monte Meatta (Asiago); locality: Campigna; year: 1982; month: 6; day: 27; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. F. Cussigh; institutionCode: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09711; occurrenceID: 5E8E53C8-8068-504E-A3EF-317D5E0E20A7
- de. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; county: Cogollo del Cengio; municipality: zona Monte Cengio (Asiago); locality: Foresta di Campigna; year: 1979; month: 6; day: 10; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; institutionCode: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09709; occurrenceID: 643C0BA6-C582-52D5-87F6-BDA849EAC3C8
- df. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; county: Recoaro; municipality: Fonti Lora; locality: Lago Santo; year: 1986; month: 5; day: 24; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; institutionCode: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09706; occurrenceID: CDC9B83B-076E-565E-98A4-47F0B369A7B7
- dg. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; county: Recoaro; municipality: Recoaro 1000 - Gabiola; locality: Groppo delle Ali; year: 1989; month: 6; day: 18; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. F. Cussigh; institutionCode: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection codes: mnav-ent.fc-09708, mnav-ent.fc-09712; occurrenceID: B18E7C64-715B-5753-8320-B2CED048E825
- dh. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; county: Recoaro Terme; municipality: Campogrosso (Asiago); locality: Bosco del Cansiglio; year: 1984; month: 6; day: 16; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; institutionCode: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09710; occurrenceID: F48CB4B2-B619-5CF1-B588-EBE46F519BE1
- di. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; county: Roana; municipality: Val d'Assa; locality: Alpi Giulie; verbatimElevation: 1150-1200; year: 1985; month: 6; day: 30; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. F. Cussigh; institutionCode: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection codes: mnav-ent.fc-09707, mnav-ent.fc-09713; occurrenceID: DFF25C98-13CA-5B93-A019-45EAD884BFA1
- dj. scientificName: *Platycerus caprea* (De Geer, 1774); order: Coleoptera; family: Lucanidae; country: ITALY; countryCode: IT; stateProvince: Vicenza; county: Roana; municipality: Mezzaselva Roana (Asiago, 7 Comuni); locality: Cernkerla; year: 2011; month: 6; day: 22; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. S. Biondi; institutionCode: Coll. S. Biondi; occurrenceID: 5CC7B82F-0B2A-5697-A54B-77538AE04CA8

## Distribution

The examination of the available material yielded 114 new distributional records, representing a surge of over 70% compared to the existing literature. *Platycerus caprea* is, thus, recorded for 271 Italian localities, but it is absent from Sicily and Sardinia (Fig. 4). This *species* has been mostly observed in the Alps, while its records in peninsular Italy are gradually diminishing towards the south. Particularly, it can be seen that occurrences are located almost exclusively in correspondence with foothill and mountainous areas, for both historical and original data. The temporal distribution of *P. caprea* occurrences is as follows: 11 observations (4.1%) were collected prior to 1923, 101 (37.3%) were collected between 1923 and 1973 and 159 (58.7%) from 1973 to present (Suppl. material 1).

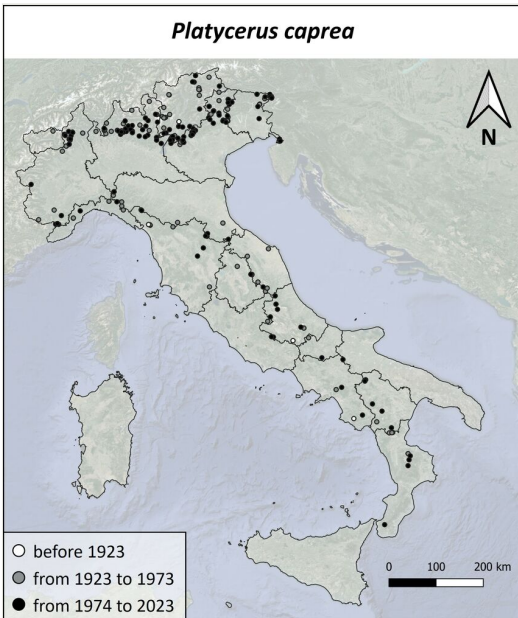
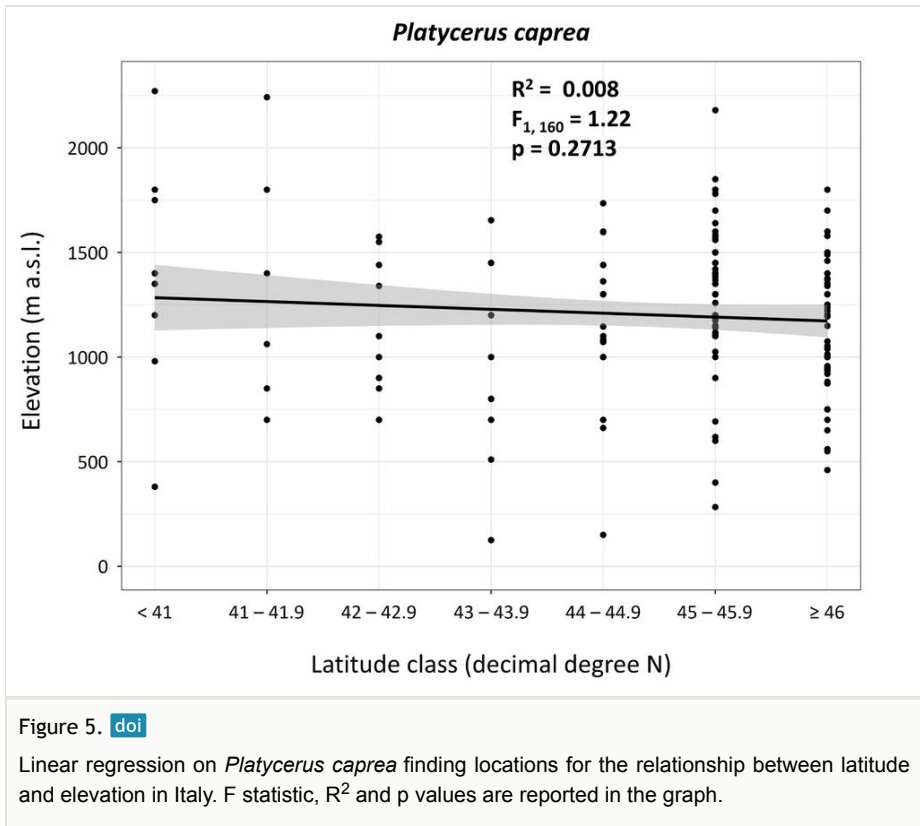


Figure 4. [doi](#)

Italian distribution of *Platycerus caprea*, featuring findings from different collection periods. Updated to 31 December 2023.

## Ecology

In sites where this information is known ( $n = 162$ ), the mean ( $\pm$  st. dev.) elevation was  $1202.38 \pm 370.30$  m a.s.l. and it ranged from 125 to 2271 m a.s.l. Despite having a general negative trend, the statistical analysis run on the latitude-elevation relationship did not show significant results for the linear (Fig. 5) nor the quadratic regression ( $F_{2, 159} = 0.982$ ,  $p = 0.3768$ ). The activity period of *P. caprea* adults appears to predominantly span the months of May, June and July, but details on these aspects are often scattered or untraceable.



### *Platycerus caraboides caraboides* (Linnaeus, 1758)

#### Materials

- a. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: L'Aquila; county: Pescosancostanzo; locality: Bosco di Sant'Antonio; year: 2015; month: 5; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: F3D1971F-A280-5394-9BDE-7A69C4624B04
- b. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pescara; county: Salle; locality: Montagne Morrone; verbatimElevation: 496; year: 1998; month: 6; day: 21; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Presutto; collectionID: Coll. L. Bartolozzi; occurrenceID: 1FA94261-0822-5A2B-BABA-7AF08B102625
- c. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pescara; county: Salle; locality: Montagne Morrone; verbatimElevation: 1036; year: 1998; month: 7; day: 19; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Presutto; collectionID: Coll. L. Bartolozzi; occurrenceID: A5A5A3CB-44F2-53B7-965C-8E4D8328DEA1
- d. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pescara; county: Tocco da

- Casauria; locality: Montagne Morrone; verbatimElevation: 1270; year: 1998; month: 8; day: 11; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. F. Presutto; collectionID: Coll. L. Bartolozzi; occurrenceID: 3E756CD8-BFC5-505D-9FC3-7360E2B8C806
- e. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Aosta; county: Courmayeur; locality: Parco giochi Courmayeur; verbatimElevation: 1250; year: 2009; month: 6; day: 21; individualCount: 1; lifeStage: adult; recordedBy: leg. Fam. Penna; collectionID: Coll. Ugo Bosia; occurrenceID: 6E5A4E19-8704-5078-9D31-3C2D688DD1A3
- f. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Cosenza; county: Acri; locality: Duglia; year: 1933; month: 7; day: 17; individualCount: 2; sex: female; lifeStage: adult; recordedBy: leg. Schatzmayr-Koch; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 237DDBFD-82F9-50F2-BE8C-B36B43D341B3
- g. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Cosenza; county: Fagnano Castello; locality: lago Trifoglietti; verbatimElevation: 1068; decimalLatitude: 39.5489; decimalLongitude: 16.0229; geodeticDatum: WGS84; year: 2019; month: 5; day: 20; individualCount: 1; lifeStage: adult; recordedBy: leg. M. Valle; collectionID: Coll. Museo "E. Caffi", Bergamo; occurrenceID: 12E97F03-AB79-53E2-BA0F-818803F2A84F
- h. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Salerno; county: Monte Cervati; verbatimElevation: 1800; year: 2018; month: 5; day: 26; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: 66268F73-5182-5310-AB3E-21D20DB1409C
- i. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bologna; county: Granaglione; locality: Monte Cavallo; verbatimElevation: 1195; year: 2013; month: 4; day: 17; individualCount: 7; lifeStage: adult; recordedBy: leg. S. Nappini; occurrenceID: AA944A20-7F3B-5186-90FE-E43AAF01CE45
- j. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bologna; county: Lizzano in Belvedere; locality: Corno alle Scale; year: 2005; month: 5; day: 29; individualCount: 1; lifeStage: adult; recordedBy: leg. F. Faggi; occurrenceID: 36CE9087-90F0-50C5-B1F0-8DD76DBD07CF
- k. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; county: Campigna; year: 2018; month: 4; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: photo by S. Magagnoli; occurrenceID: 1DCE9B02-57B1-5E5B-9511-D847E044B2EA
- l. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; county: Campigna; year: 1950; month: 7; day: 25; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. M. Tomassetti; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 401EC097-9A51-5B78-BC49-D8E0CEE9018E
- m. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; county: Premilcuore; locality: Foreste Casentinesi; verbatimElevation: 1369; year: 2013; month: 4; day: 26; individualCount: 3; lifeStage: adult; recordedBy: leg. A. Bastianini & S. Nappini; occurrenceID: 7538E305-2EEB-5AE0-AF5C-51A145ABBD8A

- n. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; county: San Benedetto in Alpe; year: 1986; month: 5; day: 1; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: AC67C652-0AE5-553E-A4A5-FD2D1D2C929A
- o. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; county: Santa Sofia; locality: close to Campigna (below); year: 1988; month: 5; day: 24; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 3770EEAC-4EE1-565A-9A03-5C63824D5719
- p. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; county: Sarsina; locality: Sarsina Montirolo; year: 1986; month: 6; day: 10; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 52350A72-A7C6-5BFE-AB9F-1D97FAAC8A1A
- q. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Modena; county: Sestola; locality: Monte Cimone; verbatimElevation: 1325; year: 2015; month: 5; day: 6; individualCount: 4; lifeStage: adult; recordedBy: leg. S. Nappini; occurrenceID: 9B87AC27-7E4E-5E36-A745-83D0D8AAD870
- r. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Piacenza; county: Bobbio; locality: Monte Penice; year: 1959; month: 5; day: 28; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Baldini; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: C22D2954-9C4D-51C6-A6CD-F1684487AD68
- s. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Piacenza; county: Ferriere; locality: Ferriere (nearby); year: 1969; month: 8; day: 8; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Ragozzino; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 5581F6A5-829B-56B0-BDF7-ACC9393946AC
- t. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pordenone; county: -; locality: Monte Chiarandei; verbatimElevation: 600–800; year: 1995; month: 5; day: 21–25; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 4F26B8ED-8371-59E6-80E6-FA93927D7AD5
- u. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pordenone; county: Barcis; locality: Foresta del Prescudin; verbatimElevation: 506; year: 2004; month: 5; day: 19; individualCount: 1; lifeStage: adult; recordedBy: leg. C. Baseotto; collectionID: Coll. G. Stefani; occurrenceID: EFDAC666-9A59-5169-8BC2-CAC9D583AAB0
- v. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pordenone; county: Frisanco; locality: Casasola; verbatimElevation: 450; year: 2023; month: 5; day: 1; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Stefani; collectionID: Coll. G. Stefani; occurrenceID: C00F3A14-B722-5B38-98D1-52FCFAC19944
- w. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pordenone; county: Poffabro; verbatimElevation: 400–800; year: 1995; month: 5; day: 8–26; individualCount: 1; sex:



- male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 83C66907-2E97-53BF-B13F-41B744B9D59E
- x. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Udine; county: Alta Val Torre; locality: Lusevera; year: 1994; month: 6; day: 14; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Delirio; collectionID: Coll. D. Sechi; occurrenceID: 869E8F5D-A6DF-588D-815A-08B97F0A36EA
- y. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Udine; county: Passo Tanamea; locality: trail Monte Maggiore; verbatimElevation: 900; year: 2000; month: 5; day: 28; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: 082FA6C6-DEBA-548F-A744-07E6400DFA39
- z. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Udine; county: Socchieve; locality: Tramonti di sopra, Forca Monte Rest; verbatimElevation: 1096; year: 2002; month: 6; day: 2; individualCount: 1; lifeStage: adult; recordedBy: leg. C. Baseotto; collectionID: Coll. G. Stefani; occurrenceID: 735E2067-E79F-5B56-AFB5-4A74C19A0696
- aa. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Udine; county: Taipana; locality: Montemaggiore; verbatimElevation: 935; year: 2002; month: 6; day: 4; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Stefani; collectionID: Coll. G. Stefani; occurrenceID: 5305C89E-23BF-5A7C-A430-96DE5FBB137E
- ab. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Udine; county: Tarcento; year: 1948; month: 5; day: 10; individualCount: 2; sex: male; lifeStage: adult; recordedBy: leg. E. Busolini; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 2A198536-4421-5C72-9769-A576982446B0
- ac. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Udine; county: Tarvisio; locality: Coccu; verbatimElevation: 935; decimalLatitude: 46.53189; decimalLongitude: 13.62325; geodeticDatum: WGS84; year: 2023; month: 5–6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. L. Deganutti; occurrenceID: ABB20B1F-A984-5844-A17A-FA55D8B5E542
- ad. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Rieti; county: Amatrice; locality: cima Lepri, Cascade delle Barche; verbatimElevation: 1750; year: 2005; month: 6; day: 18; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. E. Colonnelli; collectionID: Coll. L. Bartolozzi; occurrenceID: 2DB8F1E0-C937-514F-8A27-C6D759069F9E
- ae. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Genova; county: Casella; locality: Santuario di Ns. Signora dell'Acqua; year: 2004; month: 4; day: 16; individualCount: 1; lifeStage: adult; recordedBy: leg. F. Vitali; collectionID: Coll. F. Vitali; occurrenceID: DD89C798-C50D-5C15-A346-DDECFCBAC9A6
- af. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Genova; county: Genova; locality: Colle di Creto; year: 1900; month: 5; individualCount: 1; sex: male; lifeStage: adult; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 863E7A01-12C4-5877-B5FA-D9B924309D6D

- ag. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Imperia; county: Alto; locality: close to Alto; decimalLatitude: 44.108636; decimalLongitude: 7.97595; geodeticDatum: WGS84; year: 2019; month: 1; day: 4; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Scaccini & M. Bonelli; collectionID: Coll. D. Scaccini; occurrenceID: 6869E0D5-4A93-5312-BEA8-697DBB525ABE
- ah. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Savona; county: Bardineto; verbatimElevation: 681; year: 2015; month: 4; day: 1–5; individualCount: 1; lifeStage: adult; recordedBy: leg. Bastianini & Nappini; occurrenceID: 2E77B14A-D782-5936-9A3F-3802806216A4
- ai. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Savona; county: Bardineto; decimalLatitude: 44.193583; decimalLongitude: 8.117806; geodeticDatum: WGS84; year: 2019; month: 1; day: 3; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Scaccini & M. Bonelli; collectionID: Coll. D. Scaccini; occurrenceID: 729BEE42-BC90-59BB-A0AB-EECFB68B2BDA
- aj. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Savona; county: Colle del Giovo; locality: bosco di castagni; year: 1989; month: 5; day: 7; individualCount: 1; lifeStage: adult; recordedBy: leg. F. Vitali; collectionID: Coll. F. Vitali; occurrenceID: B99FA7C4-AA89-57ED-AAF4-681238CA2F84
- ak. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Albino; locality: peak of Monte Misma; verbatimElevation: 1140; decimalLatitude: 45.736299; decimalLongitude: 9.818304; geodeticDatum: WGS84; year: 2015; month: 5; day: 9; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; occurrenceID: 890DB431-5A30-5CB9-9327-39D92079FEB7
- al. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Averara; verbatimElevation: 781; decimalLatitude: 45.988733; decimalLongitude: 9.637397; geodeticDatum: WGS84; year: 2015; month: 4; day: 7; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: A43BCD70-A87F-5896-9A29-9683CAF5C1D2
- am. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Camerata Cornello; locality: trail from Lenna to San Giovanni Bianco; verbatimElevation: 473; decimalLatitude: 45.905422; decimalLongitude: 9.659919; geodeticDatum: WGS84; year: 2022; month: 12; day: 28; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: A74CB2ED-01C6-5696-B3F1-FC24178A7611
- an. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Cassiglio; locality: from Cassiglio, trail to baita Foyer; verbatimElevation: 900; decimalLatitude: 45.94734; decimalLongitude: 9.617527; geodeticDatum: WGS84; year: 2018; individualCount: 3; lifeStage: larva; recordedBy: leg. F. Tomasi; occurrenceID: AAC634D0-F222-5922-AEAC-A4FF1C084D93
- ao. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Cene; locality: località Fontanei; verbatimElevation: 500; decimalLatitude: 45.777447;

- decimalLongitude: 9.832614; geodeticDatum: WGS84; year: 2013; month: 5; day: 1; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 45EA5718-AC9E-59AD-B480-9639656F5C73
- ap. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Dossena; locality: close to "miniere di Dossena"; verbatimElevation: 1060; decimalLatitude: 45.897961; decimalLongitude: 9.682781; geodeticDatum: WGS84; year: 2017; month: 8; day: 13; individualCount: 4; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 9F231426-AE92-5C10-9CEF-59394734B869
- aq. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Fonteno; locality: close to Monte Boario; verbatimElevation: 1200; decimalLatitude: 45.762524; decimalLongitude: 10.006687; geodeticDatum: WGS84; year: 2019; month: 5; day: 25; individualCount: 2; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 2D43E1C0-9FF1-565C-9A0B-F04B8F3D9DF2
- ar. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Lenna; verbatimElevation: 632; decimalLatitude: 45.929667; decimalLongitude: 9.673164; geodeticDatum: WGS84; year: 2016; month: 12; day: 27; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: F9B841F7-B53B-5DE7-AF38-96511CFC983A
- as. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Lenna; verbatimElevation: 477; decimalLatitude: 45.929592; decimalLongitude: 9.669292; geodeticDatum: WGS84; year: 2017; month: 12; day: 29; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: 31632A43-B366-5F21-82F4-DF4CBF0D95F7
- at. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Olmo al Brembo; locality: trail from Olmo al Brembo to Averara; verbatimElevation: 590; decimalLatitude: 45.974275; decimalLongitude: 9.644183; geodeticDatum: WGS84; year: 2022; month: 12; day: 27; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: 1864DF06-898F-5187-99F6-27A5A0BE029E
- au. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Olmo al Brembo-Piazza Brembana; locality: trail (high) from Olmo al Brembo to Piazza Brembana; verbatimElevation: 876; decimalLatitude: 45.961089; decimalLongitude: 9.67081; geodeticDatum: WGS84; year: 2022; month: 1; day: 2; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: F4456747-1B4B-566E-A4CD-92F8803932FB
- av. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazza Brembana; locality: close to the trail from Piazza Brembana to Olmo; verbatimElevation: 603; decimalLatitude: 45.95338; decimalLongitude: 9.663204; geodeticDatum: WGS84; year: 2023; month: 1; day: 2; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: F1B2A114-52B5-5B21-A719-348B086160D4
- aw. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazza

- Brembana; locality: on the gallery opening to Piazza Brembana; verbatimElevation: 548; decimalLatitude: 45.948826; decimalLongitude: 9.665377; geodeticDatum: WGS84; year: 2023; month: 1; day: 2; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: 585CB263-7252-5AD3-A18F-0AEECC383E7B1
- ax. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzatorre; locality: Località Forcella; verbatimElevation: 1003; decimalLatitude: 45.982258; decimalLongitude: 9.6808; geodeticDatum: WGS84; year: 2016; month: 8; day: 19; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 7A5F9922-AE33-55D8-8394-5FAD23BF5343
- ay. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: -; verbatimElevation: 795; decimalLatitude: 45.977786; decimalLongitude: 9.674511; geodeticDatum: WGS84; year: 2015; month: 1; day: 2; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 1B9C108B-B849-5921-91A1-D84D715B0F67
- az. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: close to Santuario S. Rita; verbatimElevation: 760; decimalLatitude: 45.976078; decimalLongitude: 9.665964; geodeticDatum: WGS84; year: 2022; month: 4; day: 28; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 89D6006F-C4BC-54ED-A6F3-E8EEA275A060
- ba. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: close to the waterfall; verbatimElevation: 897; decimalLatitude: 45.972932; decimalLongitude: 9.67605; geodeticDatum: WGS84; year: 2019; month: 6; day: 15; individualCount: 16; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: FE9E1895-FF85-56D6-9896-0063CC75823A
- bb. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: forest, close to a creek; verbatimElevation: 749; decimalLatitude: 45.977269; decimalLongitude: 9.672689; geodeticDatum: WGS84; year: 2016; month: 8; day: 19; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: D03F4DDD-00A3-5A2D-BECB-EEE140CB7902
- bc. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: forest, close to houses; verbatimElevation: 750; decimalLatitude: 45.977525; decimalLongitude: 9.672742; geodeticDatum: WGS84; year: 2017; month: 4; day: 16; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: D963E4A0-6CDF-5E91-8C4A-709B66AE33B2
- bd. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: Pra' di Strac; verbatimElevation: 843; decimalLatitude: 45.974639; decimalLongitude: 9.671742; geodeticDatum: WGS84; year: 2022; month: 6; day: 4; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 475B87BF-EF13-53F1-8AE3-55B8DEE6C6ED
- be. scientificName: *Platyцерus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bergamo; county: Piazzolo; locality: via Grumello; verbatimElevation: 753; decimalLatitude: 45.97811;

- decimalLongitude: 9.672394; geodeticDatum: WGS84; year: 2011; month: 4; day: 26; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 66AA6F9E-07D8-5AA4-AAC2-9AE8C3B48554
- bf. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Civate Camuno; locality: Località Margole; verbatimElevation: 300; decimalLatitude: 45.935525; decimalLongitude: 10.268804; geodeticDatum: WGS84; year: 2020; month: 4; day: 28; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: C99FF837-60ED-59C5-80C2-C7552469986B
- bg. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Corteno Golgi; locality: close to Santicolo; verbatimElevation: 880; decimalLatitude: 46.168719; decimalLongitude: 10.278764; geodeticDatum: WGS84; year: 2016; month: 5; day: 8; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: B416C8BB-89D7-524D-B56B-A3109C94A32F
- bh. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Corteno Golgi; locality: segheria di Corteno; verbatimElevation: 1000; decimalLatitude: 46.166263; decimalLongitude: 10.22429; geodeticDatum: WGS84; year: 2015; month: 5; day: 24; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 3A43BF7D-7DB4-5334-9760-19070FC990A5
- bi. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Darfo Boario Terme; locality: close to Dosso della Forcella; verbatimElevation: 600; year: 2009; month: 4; day: 25; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 75554726-6FC0-548B-8B81-D6E8BBF08FFD
- bj. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Darfo Boario Terme; locality: close to Dosso della Forcella; verbatimElevation: 600; year: 2010; month: 4; day: 22; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 388B0784-681A-51A9-B724-AAF94258C394
- bk. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Darfo Boario Terme; locality: Prat de Là di Angone; verbatimElevation: 675; decimalLatitude: 45.910729; decimalLongitude: 10.197758; geodeticDatum: WGS84; year: 2015; month: 5; day: 5; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 3D87F41D-A7DE-51DF-9A28-290588369F02
- bl. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Darfo Boario Terme; locality: trail Angone-San Valentino; verbatimElevation: 450; decimalLatitude: 45.906169; decimalLongitude: 10.190481; geodeticDatum: WGS84; year: 2016; month: 5; day: 3; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 21B5D8B0-7C76-5715-AC97-71C3205EC921
- bm. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Darfo Boario Terme; locality: trail Erbanno-San Valentino; verbatimElevation: 550; decimalLatitude: 45.912001; decimalLongitude: 10.200603; geodeticDatum: WGS84; year: 2010; month:



- 5; day: 6; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 542FDF42-1011-51F0-B98A-BE4597A33E1C
- bn. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Droane; locality: close to the cave n. 499; verbatimElevation: 854; decimalLatitude: 45.753689; decimalLongitude: 10.626742; geodeticDatum: WGS84; year: 2020; month: 1; day: 3; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: CDA1990B-1865-502B-90CB-D265C1DB011E
- bo. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Esine; locality: Monte Bardisone, facing S; verbatimElevation: 350; decimalLatitude: 45.898875; decimalLongitude: 10.228894; geodeticDatum: WGS84; year: 2020; month: 4; day: 23; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 94E7B186-AEBC-509B-9FE0-0F2DE63D666F
- bp. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Gargnano; locality: trail to Droane; verbatimElevation: 520; decimalLatitude: 45.735878; decimalLongitude: 10.606853; geodeticDatum: WGS84; year: 2020; month: 1; day: 3; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: field observations by D. Scaccini; occurrenceID: 4A984C07-E0A0-5CE7-83B4-5B1F9DED5ADB
- bq. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Pisogne; locality: trail n. 212 to Corna Trentapassi; verbatimElevation: 1100; decimalLatitude: 45.772106; decimalLongitude: 10.088582; geodeticDatum: WGS84; year: 2014; month: 5; day: 10; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: B50B17E8-3D9E-5184-A0B5-1E8F4A021717
- br. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Sale Marasino; locality: Località Noase; verbatimElevation: 860; decimalLatitude: 45.713596; decimalLongitude: 10.142522; geodeticDatum: WGS84; year: 2016; month: 5; day: 4; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Pedersoli; collectionID: Coll. D. Pedersoli; occurrenceID: 1D005C4A-241D-514D-AA8E-3D48AC51AA4C
- bs. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Valvestino; locality: Bollone, surroundings; verbatimElevation: 778; decimalLatitude: 45.729419; decimalLongitude: 10.613225; geodeticDatum: WGS84; year: 2020; month: 1; day: 4; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: DA86F38A-7C1A-5C87-89FB-B238A7C87D34
- bt. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Valvestino; locality: Bollone, surroundings; verbatimElevation: 618; decimalLatitude: 45.732572; decimalLongitude: 10.609; geodeticDatum: WGS84; year: 2020; month: 1; day: 4; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 05DB8667-FB5E-5C65-9EE8-70B3C429D867
- bu. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Valvestino; locality: Bollone, surroundings; verbatimElevation: 930; decimalLatitude: 45.739322; decimalLongitude: 10.577094; geodeticDatum: WGS84; year: 2020; month: 1; day: 4; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: field

- observations by D. Scaccini; occurrenceID: E1967E43-8468-594C-BD9D-8B354855805D
- bv. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Valvestino; locality: Bollone, surroundings; verbatimElevation: 908; decimalLatitude: 45.738175; decimalLongitude: 10.576083; geodeticDatum: WGS84; year: 2020; month: 1; day: 4; individualCount: 7; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 76C620B1-B7D2-5257-83FC-22185036CE55
- bw. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Brescia; county: Valvestino; locality: Bollone, surroundings; verbatimElevation: 898; decimalLatitude: 45.740078; decimalLongitude: 10.578611; geodeticDatum: WGS84; year: 2020; month: 1; day: 4; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: field observations by D. Scaccini; occurrenceID: F2438992-2662-58FE-896A-F3DB80225013
- bx. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Como; county: Brunate; year: 1935; month: 5; day: 21; individualCount: 2; sex: male; lifeStage: adult; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 8D1EFABC-F9FB-5815-806E-9660A917A0C7
- by. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Lecco; county: Galbiate; locality: close to Parco Archeologico dei Piani di Barra; verbatimElevation: 600; decimalLatitude: 45.833239; decimalLongitude: 9.3661; geodeticDatum: WGS84; year: 2023; month: 4; day: 21; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 529E99AD-1ABA-5494-A79C-89197B0045E6
- bz. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Lecco; county: Galbiate; verbatimElevation: 644; decimalLatitude: 45.834121; decimalLongitude: 9.375022; geodeticDatum: WGS84; year: 2023; month: 4; day: 21; individualCount: 1; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: B3332A17-2FD9-5097-A97F-B5097A930002
- ca. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Lecco; county: Galbiate; verbatimElevation: 397; decimalLatitude: 45.802117; decimalLongitude: 9.368822; geodeticDatum: WGS84; year: 2021; month: 4; day: 24; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini & M. Bonelli; occurrenceID: 59508E46-4B2C-5E91-8DEB-A0FBF3A42EC9
- cb. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Lecco; county: Valmadrera; locality: Corni di Canzo; year: 1946; month: 4; day: 20; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. A. Focarile; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: EA7C4297-6B86-5E02-AB0A-4FDAA5919CBC
- cc. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Ancona; county: Fabriano; locality: Valdicastro; year: 2019; month: 5; day: 11; individualCount: 2; sex: male; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: BA495C6E-5777-5FD5-A666-48FEDD0B0ABB
- cd. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Fermo; county: Montefortino; locality: Capotenna; year: 2019; month: 6; day: 15; individualCount: 1; sex: male;

- lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: 0824C467-573C-5643-94DF-F43A94B39AA5
- ce. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Fermo; county: Montefortino; year: 2011; month: 5; day: 28; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. F. Tomasi; occurrenceID: 5172C09C-E31F-5BD5-AE9B-14C0119CF92C
- cf. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Fermo; county: Montefortino; year: 2011; month: 5; day: 28; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. G. Giovagnoli; occurrenceID: 56FCCA63-776D-5D57-BDF1-A3C31B63C96A
- cg. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Fermo; county: Valleremita; year: 2020; month: 5; day: 14; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: D839D0C7-F682-558F-B725-7E44A93E711E
- ch. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Macerata; county: Bolognola; locality: Fargno; year: 2020; month: 6; day: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: 636D656F-7DC2-537C-AC8B-2F7B47E07308
- ci. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Macerata; county: Bolognola; locality: Pintura di Bolognola; year: 2017; month: 6; day: 18; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: BD942FE3-4E61-5D28-97E4-EA82E62C666A
- cj. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Macerata; county: Esanatoglia; year: 2015; month: 6; day: 13; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: F267D7A4-08A7-56EA-913A-280933158FF2
- ck. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Macerata; county: Sefro; locality: Val Scurosa; year: 2019; month: 6; day: 1; individualCount: 2; sex: female; lifeStage: adult; recordedBy: leg. G. Giovagnoli; collectionID: Coll. G. Giovagnoli; occurrenceID: 87102AB2-FE56-55AB-B54E-FE2240C6D3F8
- cl. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pesaro-Urbino; county: -; locality: Monte Catria; verbatimElevation: 1000; year: 1991; month: 6; day: 10; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 12BC163E-E207-52A3-9399-532740DB477E
- cm. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pesaro-Urbino; county: -; locality: Monte Nerone; verbatimElevation: 1000; year: 1991; month: 6; day: 1; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 47A2E707-C4D2-5904-BF6E-03C41529A21D

- cn. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pesaro-Urbino; county: Cantiano; locality: Monte Catria; verbatimElevation: 1200; year: 1988; month: 4; day: 17; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. W. Pagliacci; occurrenceID: F5596813-C3CB-5433-8419-556B7D460F64
- co. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Alessandria; county: Caldirola; year: 1983; month: 1; day: 29; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. L. Galbiati; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 57C6DDAA-84ED-599A-8703-20AF79AF42DE
- cp. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Biella; county: -; locality: Vallée Sessera; year: 1995; month: 6; day: 25; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curretti; occurrenceID: 78963B4A-CC15-581A-A59D-511EC5C3F78C
- cq. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Biella; county: Casa del Bosco, Sostegno; year: 1984; month: 6; day: 20; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curretti; occurrenceID: 8A79295D-9631-5BFD-ABDE-7A083312816E
- cr. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Biella; county: Casa del Bosco, Sostegno; year: 1994; month: 6; day: 13; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Curretti; occurrenceID: CA3BAF67-57C2-58C3-B56B-A91875FAA44A
- cs. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Imola; county: -; locality: Breyll, F. Valle Roya; year: 2002; month: 7; day: 15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. M. Dutto; collectionID: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: D8D9664F-2D9A-5D93-8E38-14662D05060D
- ct. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Turin; county: Prali; locality: Val Germanasca; year: 1974; month: 7; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. Rochat; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 323E15A1-FF22-544C-929E-1125B1652386
- cu. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Turin; county: Varisella; year: 2018; month: 5; day: 9; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. M. Zammataro; collectionID: Coll. G. Giovagnoli; occurrenceID: F521CD06-1522-5394-A5EA-FA8DFAF5BC59
- cv. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vercelli; county: -; locality: Casa del Bosco; year: 1994; month: 4; day: 13; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Pescarolo; collectionID: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: 5075AB83-6510-551E-AD40-7D9C2D4BEA68
- cw. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vercelli; county: Carcoforo; locality: Val Sesia; verbatimElevation: 1200; year: 1973; month: 6; day: 24; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. R. Colombini; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: CF47367A-5E14-5745-A854-BF1C3D827F2A
- cx. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vercelli; county: Scopello-Mera;

- locality: Val Sesia; year: 1984; month: 6; day: 20; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Pescarolo; collectionID: Coll. Museo Civico di Storia Naturale di Carmagnola; occurrenceID: A7040024-AD6E-515B-8B4A-3F237F5A4B7D
- cy. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Bolzano; county: Tires; verbatimElevation: 1050; year: 2010; month: 6; day: 11; individualCount: 1; sex: male; lifeStage: adult; collectionID: Coll. M. Zilioli; occurrenceID: 2CAC6174-749B-50FC-B617-E94F697944B1
- cz. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: -; locality: close to Altopiano della Vigolana; verbatimElevation: 868; year: 2020; month: 4; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: photo by D. Debiasi; occurrenceID: CE6C836C-D724-50FF-8259-27025BEAFE56
- da. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: -; locality: Passo del Ballino; verbatimElevation: 850; year: 2001; month: 6; day: 2; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: 151987BF-8D91-5063-A398-D6448EF25B75
- db. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Caldonazzo; locality: Torrente Centa, close to "pineta di Caldonazzo"; verbatimElevation: 440; year: 2013; month: 4; day: 19; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: DC998BE5-DBA2-535F-91C2-1A4024D6F93B
- dc. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Folgaria; verbatimElevation: 848; year: 2020; month: 5; day: 5; individualCount: 1; sex: female; lifeStage: adult; recordedBy: photo by D. Debiasi; occurrenceID: CCE6B8EC-2415-5631-8547-A99DF6BCFC9B
- dd. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Pergine Valsugana; locality: Colle del Tegazzo; verbatimElevation: 650; year: 2014; month: 5; day: 6; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: 4D731DBA-B1E4-52AE-B9AD-A8096A46FA0E
- de. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Rovereto; locality: Ca Bianca; verbatimElevation: 473; year: 2017; month: 4; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Marangon; collectionID: Coll. D. Scaccini; occurrenceID: F44D2FEE-3D5C-5065-BC58-929209577CAF
- df. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Segà di Ala; verbatimElevation: 1280; year: 1999; month: 4; day: 5; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: BE10C2CC-8135-5EFC-BA62-D509F0CBEF94
- dg. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Trento; locality: Povo; verbatimElevation: 500; year: 2019; month: 4; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. N. Massimo; collectionID: Coll. F. Tomasi; occurrenceID: 3748879D-8854-5E0E-91A9-D35837E442AD
- dh. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Vigolo Vattaro;

- verbatimElevation: 742; year: 2020; month: 5; day: 2; individualCount: 1; sex: male; lifeStage: adult; recordedBy: photo by D. Debiasi; occurrenceID: 4F1967E4-AC6D-50F0-9CCC-73E7F50CB637
- di. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; county: Vigolo Vattaro; verbatimElevation: 1150; year: 2020; month: 5; day: 4; individualCount: 2; sex: male; lifeStage: adult; recordedBy: photo by D. Debiasi; occurrenceID: 19C7D9C1-8593-5AD2-BBAD-C4C96F50FA43
- dj. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Arezzo; county: Poppi; locality: close to Camaldoli; verbatimElevation: 700; year: 1993; month: 5; day: 31; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. B. Cecchi; collectionID: Coll. L. Bartolozzi; occurrenceID: B5B6D84F-1F74-5ABF-8D38-02E7EAD3D563
- dk. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Florence; county: Calenzano; locality: Monte Calvana; year: 1928; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. M. Lombardi; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 3F7D69B3-9D67-5E87-BDAA-73028995B949
- dl. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Florence; county: Figline e Incisa Valdarno; locality: close to località Cinipetta (43°34'12"N 11°25'14"E), frazione di Gaville; verbatimElevation: 445; decimalLatitude: 43.57; decimalLongitude: 11.420556; geodeticDatum: WGS84; year: 2021; month: 5; day: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. L. Bartolozzi; collectionID: Coll. L. Bartolozzi; occurrenceID: DC15BE3A-FA9A-5F20-B550-9EE625D197C1
- dm. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Florence; county: Florence; locality: close to Florence; year: 1915; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. M. Lombardi; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: D2334963-5254-5D8D-BD05-41F01C873C2E
- dn. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Florence; county: Marradi; locality: Passo Peschiera; year: 1984; month: 6; day: 1; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Callegari; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: B9BE6E47-0159-5946-A17A-CA4FDC80052B
- do. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pisa; county: Santa Luce; locality: Bosco di Santa Luce; month: 6; individualCount: 1; lifeStage: adult; recordedBy: leg. M. Faggi; occurrenceID: 7A83B883-728D-5033-8695-B8A4638E5A97
- dp. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Prato; county: Cantagallo; locality: Acquiputoli; verbatimElevation: 1000; year: 2005; individualCount: 1; lifeStage: adult; recordedBy: leg. F. Faggi; occurrenceID: 06E40865-1603-5659-9B4A-85E503F7B2B8
- dq. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Prato; county: Cantagallo; locality: Cascina di Spedaletto; verbatimElevation: 928; year: 2019; month: 5; day: 23; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: leg. F. Fabbriani; occurrenceID: 13412ACF-F025-5131-9A05-505FB99AB663



- dr. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Prato; county: Vaiano; locality: Monti di Calvana mt. 550, presso grotta Buca del Tasso; verbatimElevation: 501; year: 2017; month: 5; day: 10; individualCount: 2; sex: male; lifeStage: adult; recordedBy: leg. F. Fabbriani; occurrenceID: 36FAC257-6F73-5EA0-AE0E-6C8D11C2A0C6
- ds. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Siena; county: Chiusdino; locality: Abbazia di San Galgano; verbatimElevation: 300; year: 2013; month: 4; day: 25; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. E. Colonnelli; collectionID: Coll. L. Bartolozzi; occurrenceID: 697DF48F-8B73-5E0C-A76E-5A7805087F15
- dt. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Belluno; county: Alano di Piave; verbatimElevation: 786; decimalLatitude: 45.883957; decimalLongitude: 11.878955; geodeticDatum: WGS84; year: 2023; month: 5; day: 6; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini, E. Ruzzier, A. Serafin; occurrenceID: ABDBA104-7F86-544B-B719-7DB99610B9A7
- du. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Belluno; county: Caiada, Faè; locality: Caiada, Faè; year: 2000; month: 12; day: 8; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Giannone; collectionID: Coll. D. Scaccini; occurrenceID: 60D8AB2E-C9D1-5C9E-B456-5F8483229F51
- dv. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Belluno; county: Pedavena; locality: Località Norcen; verbatimElevation: 643; decimalLatitude: 46.052179; decimalLongitude: 11.867973; geodeticDatum: WGS84; year: 2012; month: 4; day: 23; individualCount: 2; lifeStage: adult; recordedBy: leg. E. Ruzzier; occurrenceID: DDBFBF07-EE2C-522D-B5C9-148503CED1D9
- dw. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Belluno; county: Quero; verbatimElevation: 462; decimalLatitude: 45.946296; decimalLongitude: 11.876619; geodeticDatum: WGS84; year: 2023; month: 5; day: 6; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. D. Scaccini, E. Ruzzier, A. Serafin; collectionID: Coll. D. Scaccini; occurrenceID: EDA7B8A6-67BD-5C48-BDEB-0ED9DDA53CB5
- dx. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Padova; county: Cinto Euganeo; locality: Euganean Hills; year: 2017; month: 11; day: 1; individualCount: 1; lifeStage: adult; occurrenceID: CDDCBD54-58E0-5C00-945B-C2AB82EC9241
- dy. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Padua; county: Cinto Euganeo; locality: Monte Fasolo, Euganean Hills; verbatimElevation: 201; year: 2017; month: 11; day: 1; individualCount: 1; lifeStage: larva; occurrenceID: 6DBF2A50-B63E-5AE7-B281-21CE4AB8C19E
- dz. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Padua; county: Cinto Euganeo; locality: Monte Fasolo, Euganean Hills; verbatimElevation: 253; decimalLatitude: 45.292103; decimalLongitude: 11.695728; geodeticDatum: WGS84; year: 2017; month: 11; day: 1; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 519999C7-0F1A-55EF-BA6B-CBBBA791D655
- ea. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Padua; county: Cinto Euganeo;

- locality: Monte Fasolo, Euganean Hills; verbatimElevation: 220; decimalLatitude: 45.293119; decimalLongitude: 11.694881; geodeticDatum: WGS84; year: 2019; month: 3; day: 9; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: EB73E519-36E3-52F9-BA33-BA7AAFE9B736
- eb. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Col Visentin; year: 1987; month: 5; day: 3; individualCount: 1; lifeStage: adult; recordedBy: leg. M. Volpones; collectionID: Coll. D. Sechi; occurrenceID: 8E3091CA-9A3D-5EC4-9142-599C11C63D2E
- ec. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Croda Rossa; verbatimElevation: 500; year: 2009; month: 5; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Fabbriani; occurrenceID: ED22EBD1-FCDA-5241-9EDB-9B8CF6A3A823
- ed. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Maser; locality: close to "Sentieri Collinari"; verbatimElevation: 371; decimalLatitude: 45.821786; decimalLongitude: 11.961641; geodeticDatum: WGS84; year: 2023; month: 4; day: 29; individualCount: 4; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 9583551C-F2BD-5777-BB00-2139D0650C6A
- ee. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Maser; locality: close to "Sentieri Collinari"; verbatimElevation: 357; decimalLatitude: 45.820318; decimalLongitude: 11.962482; geodeticDatum: WGS84; year: 2023; month: 4; day: 29; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; occurrenceID: 17BC18A4-B9EF-5B79-BCB0-4B6334D3F40D
- ef. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Maser; locality: close to the mount peak; verbatimElevation: 454; decimalLatitude: 45.820359; decimalLongitude: 11.960273; geodeticDatum: WGS84; year: 2023; month: 4; day: 29; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: E006F251-82DA-5BF1-9744-61399506F7A4
- eg. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Pieve del Grappa; locality: Crespano del Grappa; verbatimElevation: 600; decimalLatitude: 45.849641; decimalLongitude: 11.823344; geodeticDatum: WGS84; year: 2023; month: 4; day: 10; individualCount: 1; recordedBy: leg. D. Scaccini & E. Ruzzier; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: 5BC831ED-87E7-5C11-8D45-DE0E23C03F06
- eh. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; county: Pieve del Grappa; locality: Crespano del Grappa; verbatimElevation: 669; decimalLatitude: 45.851703; decimalLongitude: 11.820423; geodeticDatum: WGS84; year: 2023; month: 4; day: 10; individualCount: 2; lifeStage: larva; recordedBy: leg. D. Scaccini & E. Ruzzier; occurrenceID: CF017720-AFFE-534C-97BC-7C83F9AAA0FD
- ei. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Verona; county: Brentino Veronese; locality: trail to Santuario Madonna della Corona; verbatimElevation: 500; year:

- 2017; month: 5; day: 11; individualCount: 1; lifeStage: adult; collectionID: Coll. A. Carlin; occurrenceID: 0F34E0E1-82A3-54BC-981D-D5C0A01D02C0
- ej. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Verona; county: Ponte di Veja; verbatimElevation: 630; decimalLatitude: 45.607275; decimalLongitude: 10.971805; geodeticDatum: WGS84; year: 2022; month: 10; day: 22; individualCount: 1; recordedBy: leg. D. Scaccini; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: D09FD756-C8E6-5733-AE26-6DA1B416E10C
- ek. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Verona; county: Rivoli Veronese; locality: close to 37010 Rivoli Veronese VR; verbatimElevation: 239; decimalLatitude: 45.557275; decimalLongitude: 10.806746; geodeticDatum: WGS84; year: 2020; month: 5; day: 5; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Sanna; occurrenceID: 9048D24B-16BB-5499-B380-123F186CEE92
- el. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Carpané; locality: Valsugana, river Brenta; year: 1987; month: 4; day: 27; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. Rallo; collectionID: Coll. Museo di Storia Naturale di Venezia; occurrenceID: 8B0F5004-6F39-5296-9AC5-66401452A33B
- em. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Crespadoro; locality: close to Graizzari di Sopra; verbatimElevation: 621; decimalLatitude: 45.649004; decimalLongitude: 11.1881; geodeticDatum: WGS84; year: 2022; month: 1; day: 8; individualCount: 1; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: D171648A-85EE-5615-A0AF-5F50771A9671
- en. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Crespadoro; locality: close to Graizzari di Sotto; verbatimElevation: 570; decimalLatitude: 45.648425; decimalLongitude: 11.192186; geodeticDatum: WGS84; year: 2022; month: 1; day: 8; individualCount: 1; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: FFC85BF8-6B72-54D7-8F90-8F2686D554BA
- eo. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Crespadoro; locality: close to Zanconati; verbatimElevation: 689; decimalLatitude: 45.648667; decimalLongitude: 11.196249; geodeticDatum: WGS84; year: 2022; month: 1; day: 8; individualCount: 1; identificationRemarks: oviposition scars; collectionID: field observations by D. Scaccini; occurrenceID: A34B909F-58A9-5F25-857D-F44734BF4A28
- ep. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Longare; locality: Lumignano; year: 1950; month: 5; day: 5; individualCount: 1; sex: male; lifeStage: adult; collectionID: Coll. Museo Civico di Storia Naturale di Milano; occurrenceID: 5EE469B0-0941-5F0A-A282-2296155EA0A4
- eq. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Malo; locality: close to Porra; verbatimElevation: 424; decimalLatitude: 45.623497; decimalLongitude: 11.389189; geodeticDatum: WGS84; year: 2023; month: 4; day: 8; individualCount: 2; lifeStage: larva; recordedBy: leg. D. Scaccini; occurrenceID: F3BDA51F-77A9-5F90-8255-2595CF02B084
- er. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Monte di Malo;

- locality: giro panoramico Montepian; verbatimElevation: 447; decimalLatitude: 45.63558; decimalLongitude: 11.39334; geodeticDatum: WGS84; year: 2023; month: 4; day: 8; individualCount: 6; lifeStage: larva; recordedBy: leg. D. Scaccini & E. Ruzzier; occurrenceID: DADEAA6C-9A8A-5067-A614-6C0292CE3F19
- es. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Monte di Malo; locality: giro panoramico Montepian; verbatimElevation: 430; decimalLatitude: 45.63658; decimalLongitude: 11.393414; geodeticDatum: WGS84; year: 2023; month: 4; day: 8; individualCount: 2; lifeStage: larva; recordedBy: leg. D. Scaccini & E. Ruzzier; occurrenceID: 12F7FE00-F162-5B6B-B3A7-FD3877745BA6
- et. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Monte di Malo; verbatimElevation: 595; decimalLatitude: 45.650388; decimalLongitude: 11.3527; geodeticDatum: WGS84; year: 2023; month: 4; day: 8; individualCount: 2; lifeStage: larva; recordedBy: leg. D. Scaccini; occurrenceID: 90EB1301-4C15-5546-AC02-A4E5DE4A8E68
- eu. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Monte di Malo; verbatimElevation: 634; decimalLatitude: 45.649275; decimalLongitude: 11.351797; geodeticDatum: WGS84; year: 2023; month: 4; day: 8; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; occurrenceID: D4FCA37E-6429-520E-94BE-4668D7906869
- ev. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Schio; locality: close to Costenieri, place A; verbatimElevation: 715; decimalLatitude: 45.744805; decimalLongitude: 11.311242; geodeticDatum: WGS84; year: 2023; month: 3; day: 25; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 6A2E35DA-3A8F-548A-8572-8D327BEB7EAA
- ew. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Schio; locality: close to Costenieri, place B; verbatimElevation: 738; decimalLatitude: 45.745295; decimalLongitude: 11.310659; geodeticDatum: WGS84; year: 2023; month: 3; day: 25; individualCount: 1; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 87DDB378-BFBF-507C-BB94-7BDD3B729A79
- ex. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Schio; locality: Sentiero di Fiaba; verbatimElevation: 936; decimalLatitude: 45.752857; decimalLongitude: 11.320698; geodeticDatum: WGS84; year: 2023; month: 3; day: 25; individualCount: 5; lifeStage: larva; recordedBy: leg. D. Scaccini; collectionID: Coll. D. Scaccini; occurrenceID: 311523EF-C1AA-56FD-B88D-54EAB3FEAB20
- ey. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Valli del Pasubio; locality: Prealpi Venete, Monte Baffelan; verbatimElevation: 1700; year: 1989; month: 6; day: 11; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Zanacco; collectionID: Coll. Università degli Studi di Padova; occurrenceID: BF4C75C7-5384-552E-8B49-EC2289BB81A9
- ez. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; county: Zovencedo; locality: Zovencedo; year: 1989; month: 9; day: 11; individualCount: 1; sex: male;

- lifeStage: adult; recordedBy: leg. F. Giannone; collectionID: Coll. D. Scaccini; occurrenceID: 4703E27A-4FCA-5C1E-893F-5B7B4F93E07F
- fa. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; municipality: Avio; locality: loc. Piazzo, M.te Baldo; decimalLatitude: 45.754839; decimalLongitude: 10.865619; geodeticDatum: WGS84; year: 1938; month: 5; day: 15; individualCount: 1; lifeStage: adult; identifiedBy: det. P. Cornacchia; collectionID: Coll. Museo di Storia Naturale di Verona; occurrenceID: 73DE09C3-1903-5C66-A57B-B46F5D1A9251
- fb. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Treviso; municipality: Vittorio Veneto; locality: (nearby, mountain); decimalLatitude: 45.985791; decimalLongitude: 12.288398; geodeticDatum: WGS84; year: 1925; month: 4; individualCount: 1; lifeStage: adult; recordedBy: leg. Zanini; identifiedBy: det. P. Cornacchia; collectionID: Coll. Museo di Storia Naturale di Verona; occurrenceID: 4596E7E9-9A7C-5012-8B56-06FF924ABAB6
- fc. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Verona; municipality: Grezzana; decimalLatitude: 45.517196; decimalLongitude: 11.006179; geodeticDatum: WGS84; year: 1946; month: 4; day: 14; individualCount: 1; lifeStage: adult; identifiedBy: det. P. Cornacchia; collectionID: Coll. Museo di Storia Naturale di Verona; occurrenceID: 3B683629-7EAF-5478-AE5E-2B6535DC78E7
- fd. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Forlì-Cesena; municipality: Sarsina; locality: Monteriolo; decimalLatitude: 43.874539; decimalLongitude: 12.122204; geodeticDatum: WGS84; year: 1976; month: 4; individualCount: 1; lifeStage: adult; recordedBy: leg. G. Sama; identifiedBy: det. P. Cornacchia; collectionID: Coll. G. Sama; occurrenceID: E826BB2C-2927-5F4E-BCFE-4497454C4950
- fe. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Siena; municipality: Monticiano; locality: (nearby); decimalLatitude: 43.134354; decimalLongitude: 11.189692; geodeticDatum: WGS84; year: 2002; month: 4; day: 27; individualCount: 1; lifeStage: adult; recordedBy: leg. P. Cornacchia & G. Scaglioni; identifiedBy: det. P. Cornacchia; occurrenceID: E89D7813-8A9B-5E2C-8E01-C7EBC1E0399E
- ff. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Teramo; municipality: Rocca Santa Maria; locality: Ceppo, Bosco Martese, M.ti della Laga; decimalLatitude: 42.669129; decimalLongitude: 13.444661; geodeticDatum: WGS84; year: 2005; month: 5; day: 16; individualCount: 2; lifeStage: adult; recordedBy: leg. P. Cornacchia & G. Scaglioni; occurrenceID: 6FCAC2E4-EA64-52B9-AB4B-439BD507A315
- fg. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Reggio Calabria; municipality: Samo; locality: torrente Apo Scipo, Vallone Fedavolito; decimalLatitude: 38.117667; decimalLongitude: 15.951639; geodeticDatum: WGS84; year: 2015; month: 5; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti, E. Castiglione, F. Manti; occurrenceID: 875DAD20-6409-51D7-AF67-AA46BC5BF2C4
- fh. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Reggio Calabria; municipality: Ciminà; locality: Piano Abbruschiato; decimalLatitude: 38.257778; decimalLongitude: 16.060389; geodeticDatum: WGS84; year: 2016; month: 5; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti, E. Castiglione, F. Manti; occurrenceID: D36ECF2B-F162-5295-84AA-77FEFE19057D



- fi. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Pescara; municipality: Sant'Eufemia a Maiella; locality: Roccamarianico, M. Le Mucchia NE, Rava del Confine; decimalLatitude: 42.10958; decimalLongitude: 13.99201; geodeticDatum: WGS84; year: 2020; month: 5; day: 14; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti; occurrenceID: 246C5CF9-05A3-565B-94F7-347545214EC9
- fj. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: L'Aquila; municipality: Pratola Peligna; locality: slavina in loc. L'Angotta; year: 2006; month: 6; day: 9; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti; occurrenceID: 33CC7F20-450E-52ED-885B-C1BA9262A313
- fk. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: L'Aquila; municipality: Pescocostanzo; locality: Bosco S. Antonio, La Difesa; year: 2001; month: 5; day: 10-11; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti; occurrenceID: 37CADCA2-8F9D-5525-A83F-FE9A3093005E
- fl. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Teramo; municipality: Pietracamela; locality: Corno Piccolo N, Bosco Aschiero; decimalLatitude: 42.500179; decimalLongitude: 13.576296; geodeticDatum: WGS84; year: 2011; month: 6; day: 13; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti, D. Di Santo; occurrenceID: 37C02FEF-B614-5310-B67B-5FF5817B3F90
- fm. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Teramo; municipality: Borbona; locality: Colle Pratoguerra N; decimalLatitude: 42.469695; decimalLongitude: 13.122413; geodeticDatum: WGS84; year: 2007; month: 8; day: 1; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti, E. Lorenzetti; occurrenceID: B04D8FAE-60D9-50A9-B3A0-F034210B0D59
- fn. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Rieti; municipality: Borbona; locality: M. Cagno S; decimalLatitude: 42.468979; decimalLongitude: 13.112278; geodeticDatum: WGS84; year: 2007; month: 6; individualCount: 1; lifeStage: adult; recordedBy: leg. A.B. Biscaccianti, E. Lorenzetti; occurrenceID: 06CD644E-D7E7-5CDC-9C12-240D99D3D5B7
- fo. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Arezzo; municipality: Poppi; locality: Fiume d'Isola; decimalLatitude: 43.805191; decimalLongitude: 11.868851; geodeticDatum: WGS84; year: 2013; month: 4-5; individualCount: 3; lifeStage: adult; recordedBy: leg. Marsella & Rossi; occurrenceID: EC8A4762-069F-5240-9936-7E5613BA43F6
- fp. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Florence; municipality: Reggello; locality: Vallombrosa; decimalLatitude: 43.737951; decimalLongitude: 11.569052; geodeticDatum: WGS84; year: 2013; month: 6; day: 6-24; individualCount: 1; lifeStage: adult; recordedBy: leg. D. Birtele, L. Zapponi, A. D'Amen; occurrenceID: 366C8510-5521-55F9-81F1-1881637235CA
- fq. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Barbarano Mossano; locality: San Giovanni in Monte, Colli Berici; year: 2001; month: 5; day: 4; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. F. Cussigh;



- identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-04516; occurrenceID: F9A7BB39-AEE5-523A-87CE-4D3DC2C11561
- fr. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Caltrano; locality: Costo (Asiago); year: 1996; month: 5; day: 5; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. F. Cussigh; identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection codes: mnav-ent.fc-09699, mnav-ent.fc-09705; occurrenceID: E797FB3C-DAB1-5C9D-958B-F6506CA34274
- fs. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Isola Vicentina; locality: Torreselle; year: 1989; month: 4; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09700; occurrenceID: 00C7FAA2-F9DB-5E63-A530-65CA9987FED6
- ft. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Roana; locality: Camporovere (Asiago); year: 1987; month: 5; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09703; occurrenceID: 9AED86CE-8319-5A2C-8331-76B9E21EBA75
- fu. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Valdastico; locality: Montepiano; year: 1993; month: 5; day: 2; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09698; occurrenceID: B828D7A8-8EA2-5187-B32F-7CA130B8C370
- fv. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Valdastico; locality: Montepiano; year: 1991; month: 5; day: 21; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. F. Cussigh; identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection codes: mnav-ent.fc-09701, mnav-ent.fc-09704; occurrenceID: 9983C6DE-4FC9-5B8C-BE8B-82DB5FFA3742
- fw. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; locality: Pian delle Fugazze (Valli del Pasubio); year: 1985; month: 5; day: 25; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. F. Cussigh; identifiedBy: det. F. Cussigh; collectionID: Coll. Museo Naturalistico Archeologico, Vicenza (ex. Coll. F. Cussigh); collectionCode: Collection code: mnav-ent.fc-09702; occurrenceID: 7E002ADA-D76D-5DBF-91DB-B041592A66B9
- fx. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Arcugnano; locality: Lapio, surroundings (Colli Berici); year: 1985; month: 5; day: 5; individualCount: 2; sex: male; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy:

- det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 983C6758-72D5-53CA-8EAD-2E38876CB771
- fy. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; locality: Monte Summano; year: 1979; month: 5; day: 19; individualCount: 2; sex: male; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 8849BB80-64D0-57AE-89B3-9A7568EF9796
- fz. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Lastebasse; locality: Montepiano, surroundings; year: 1984; month: 6; day: 18; individualCount: 1; sex: female; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 038EA0A3-FD70-5C9B-9191-22821F8945C2
- ga. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Laghi; year: 1987; month: 5; day: 10; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 320C3670-D700-533B-B93D-E8CF3F2E0BDE
- gb. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Cogollo del Cengio; year: 1989; month: 5; day: 6; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 830874A0-B138-5C2F-9635-3CDC2DB852AC
- gc. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Perugia; municipality: Gubbio; locality: surroundings; year: 2001; month: 4; day: 30; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 93A22730-49B2-572E-BCD8-ECBA20FA9E0D
- gd. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Trento; municipality: Primiero San Martino Castrozza; locality: Transacqua; year: 2002; month: 4; day: 1; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: B4441619-E67E-547F-990D-738105103315
- ge. scientificName: *Platycerus caraboides* (Linnaeus, 1758); order: Coleoptera; family: Lucanidae; country: Italy; countryCode: IT; stateProvince: Vicenza; municipality: Arcugnano; locality: Lago di Fimon, Colli Berici; year: 2012; month: 4; day: 27; individualCount: 1; sex: male; lifeStage: adult; recordedBy: leg. S. Biondi; identifiedBy: det. D. Scaccini; collectionID: Coll. S. Biondi; occurrenceID: 0248EBB4-099D-5873-9446-1DC43EA08D27

## Distribution

The study of the available material resulted in 187 new distributional records, an increase of more than 70% over what is known from literature. *Platycerus caraboides* is, thus, known for 453 Italian localities, but it is absent from Sicily and Sardinia (Fig. 6). The *species* has been observed most frequently in the Alps and the central Apennines, while records for southern Italy are rather sporadic. Occurrences for this *species* are largely localised in hilly and mountainous areas, although there are a few records at

lower altitudes. The temporal distribution of *P. caraboides* occurrences is as follows: 43 observations (9.5%) were collected prior to 1923, 87 (19.2%) were collected between 1923 and 1973 and 323 (71.3%) from 1973 to present (Suppl. material 1).

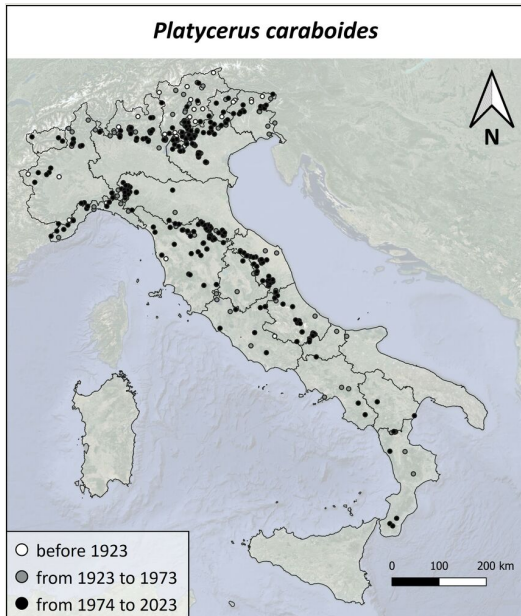


Figure 6. [doi](#)

Distribution map of *Platycerus caraboides* in Italy, featuring findings from different collection periods. Updated to 31 December 2023.

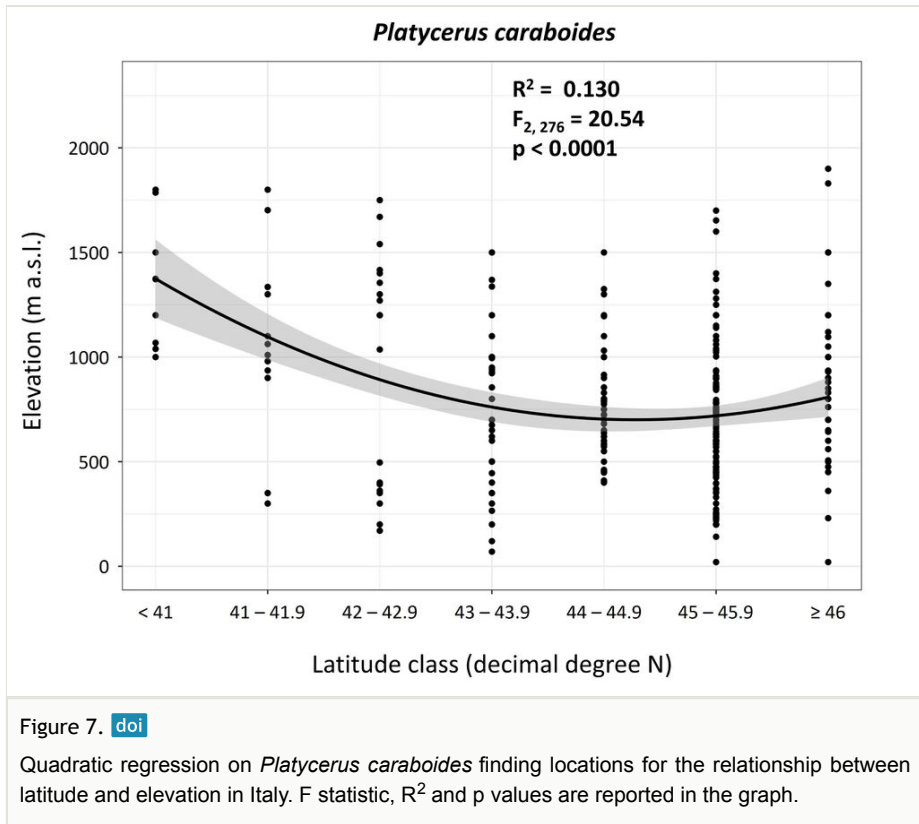
## Ecology

For the available sites ( $n = 279$ ), the elevation was  $782.65 \pm 385.69$  m a.s.l. (mean  $\pm$  st. dev.), ranging from 20 to 1900 m a.s.l. The analysis on latitude-elevation revealed a significant relationship for both linear ( $F_{1, 277} = 20.01$ ,  $p < 0.001$ ) and quadratic regressions (Fig. 7). AIC scores ( $AIC_{\text{linear}}: 4101.22$ ;  $AIC_{\text{quadratic}}: 4083.96$ ) and the ANOVA test ( $p < 0.001$ ) confirmed that the quadratic model best fits the data. Findings indicated a decrease in elevation with an increase in latitude, particularly at lower latitudes (Fig. 7). Similarly to what was observed for *P. caprea*, the activity of *P. caraboides* adults peaked in April–June.

## Discussion

The present research substantially increased the current knowledge of the occurrence of *P. caprea* and *P. caraboides* in Italy, providing more than 700 new locality records combined. Except for Sardinia and Sicily, *P. caprea* and *P. caraboides* are recorded in all Italian regions, despite some parts of the Italian Peninsula still being under investigation. The

Apulia Region is the only one where the *species* were recorded in historical times and never to be found again. Despite records suggesting that the *species* might be present along the most important hill and mountain ranges of Italy, both taxa indicate a general preference for those parts of the Alps and the Apennines characterised by cool and sub-continental climates (Fратиanni and Acquaotta 2017). The analysis revealed a significant inverse relationship between latitude and elevation concerning the occurrence of *P. caraboides*; a similar trend was noted for *P. caprea*, although it was not statistically significant, likely due to the limited available data. It should be noted that, unlike what can be observed for other European stag beetles (e.g. Romiti et al. 2017, Thomaes et al. 2021, Scaccini et al. 2023), latitude-related features are still not known for these *species*, emphasising the need for further studies on *Platycerus*.



*Platycerus caraboides* appeared to be more commonly found than *P. caprea* and this could be related to their habitat requirements, such as elevation, microclimatic conditions and deadwood type and amount in the forest (e.g. Franciscolo 1997, Bartolozzi and Maggini 2007, Klausnitzer and Sprecher-Uebersax 2008, Lachat et al. 2012, Scaccini 2022). Given the fact that *Platycerus* adults are elusive and have a short flight period, the identification of oviposition scars on deadwood has proven to be a useful method for locating sites where these two *species* are present, as suggested in Scaccini (2016) and Scaccini (2022).

Although this contribution has attempted to update and summarise as much knowledge as possible on the distribution of these two stag beetle *species*, there are still important missing data locally in certain areas of the Italian Peninsula. Furthermore, in light of the new observations reported, it would be important to reconsider their conservation status in Italy; the two *Platycerus* are currently considered “Least Concern”, but this categorisation may be more the result of a lack of information at the time of the compilation of the Red List of saproxylic beetles than representing the *species* true conservation status. Indeed, although they are not considered amongst the most threatened *species*, given their bioecological characteristics and the peculiar distribution pattern on the Italian territory, a targetted assessment of the susceptibility of these two taxa to range contraction or extinction of local populations associated with habitat reduction and fragmentation and climate change becomes essential.

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## Supplementary material

### Suppl. material 1: Occurrences of *Platycerus caprea* and *Platycerus caraboides* in Italy, based on the published material. [doi](#)

**Authors:** Scaccini D, Bartolozzi L, Zilioni M, Di Giulio A, Ruzzier E

**Data type:** Occurrences

**Brief description:** Table reporting information on the occurrences of *Platycerus caprea* and *Platycerus caraboides* in Italy, based on the published material.

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