



Plant palaeoecology of the latest Eocene flora from the Saint-Chaptes and Alès basins of Gard, southern France

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ABSTRACT

Rapid cooling during the Eocene-Oligocene transition resulted in a vegetation shift in southern France, from warm, humid vegetation to open savannah-like vegetation; however, the precise nature of this shift is uncertain. In this paper, we study the latest Eocene flora from the Saint-Chaptes and Alès basins (southern France) and compare it with other well-known southern European localities to evaluate vegetation changes near the Eocene-Oligocene boundary. Five plant communities are recognised: 1) hydrophytic vegetation dominated by water lilies and a *Linnobiphylidium*-like plant; 2) reeds that formed a palustrine belt around the lake; 3) ferns with *Osmunda* aff. *parvifolia* and *Protophrium striatum*, conifers with *Doliosirobus taxiformis*, a *Sequoia*-like plant, angiosperms with *Daphnogene* sp., *Rhus* sp., *Myrica* sp., *Comptonia difformis* and palms, which inhabited the lake shores and constituted the riparian vegetation; 4) *Trochodendron*, which grew just behind the riparian vegetation but not far from watercourses, forming open landscapes and 5) *Elaphoglossum* spp., *Fabaceae*, and probably *Allanthera* sp. and *Trochodendron* forming an open woodland distal to the lake. The flora of the Saint-Chaptes and Alès basins resembles coral floras from Sarrià (Catalonia, Spain) that are characteristic of Southern Europe, although riparian vegetation is more diverse in the Saint-Chaptes and Alès basins, and *Fabaceae* diversity is higher at Sarrià. We hypothesise that vegetation composition was mainly controlled by (1) basin architecture, allowing for a variety of wetland habitats and (2) climate. The coexistence of genera that are restricted to Central Europe (e.g., *Rhus* sp. or *Doliosirobus*), together with genera more typical of Southern Europe (e.g., diversity of *Fabaceae*, *C. difformis* and *E. aliphoides*) suggests that the Saint-Chaptes and Alès basins contain latest Pliabonian floras that are transitional between these two regions.

1. Introduction

The Eocene-Oligocene transition represents the most drastic climatic turnover of the Cenozoic era (e.g., Zachos et al., 2001). An abrupt shift in $\delta^{18}\text{O}$ values of deep-marine carbonates at ~ 34 Ma reflects the first glaciation of Antarctica and the beginning of a long-lasting trend in oceanic water cooling (Hutchinson et al., 2021). However, the terrestrial record of this major climatic event suggests that regional heterogeneities occurred (Hren et al., 2013; Sheldon, 2009). For instance, it is generally accepted that in Central Europe (Germany, Austria, the Czech Republic and Hungary), the decrease in temperatures triggered a migration of

broad-leaved deciduous plants (e.g., *Platanus* L., *Acer* L., *Alnus* MILL.) from higher latitudes (Mai and Walthen, 1985; Collinson, 1992, 2000; Mihajlovic and Ijotowski, 1994; Collinson and Hooker, 2003). This flora differs from the contemporaneous vegetation of South Europe (Iberian Peninsula, South of France, Bulgaria and Macedonia) where subtropical elements (e.g., *Phoebe* Nees and *Daphnogene* Unger) prevailed according to Mai (1995), Knobloch et al. (1993), Kovar-Eder et al. (1996), Kratoch (2010) and Tosal et al. (2018).

Knowledge of the late Eocene flora of South Europe is still poor, in part due to the limited number of plant localities studied, i.e. Bourgas Basin (Bulgaria), Ovče Polje Basin (Macedonia), Alès and Saint-Chaptes

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Table of Contents Palaeoecology Of The Flora In Bunt 2vol

1. Understanding the eBook Palaeoecology Of The Flora In Bunt 2vol
 - The Rise of Digital Reading Palaeoecology Of The Flora In Bunt 2vol
 - Advantages of eBooks Over Traditional Books
2. Identifying Palaeoecology Of The Flora In Bunt 2vol
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Palaeoecology Of The Flora In Bunt 2vol
 - User-Friendly Interface
4. Exploring eBook Recommendations from Palaeoecology Of The Flora In Bunt 2vol
 - Personalized Recommendations
 - Palaeoecology Of The Flora In Bunt 2vol User Reviews and Ratings
 - Palaeoecology Of The Flora In Bunt 2vol and Bestseller Lists
5. Accessing Palaeoecology Of The Flora In Bunt 2vol Free and Paid eBooks
 - Palaeoecology Of The Flora In Bunt 2vol Public Domain eBooks
 - Palaeoecology Of The Flora In Bunt 2vol eBook Subscription Services
 - Palaeoecology Of The Flora In Bunt 2vol Budget-Friendly Options
6. Navigating Palaeoecology Of The Flora In Bunt 2vol eBook Formats
 - ePub, PDF, MOBI, and More
 - Palaeoecology Of The Flora In Bunt 2vol Compatibility with Devices
 - Palaeoecology Of The Flora In Bunt 2vol Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Palaeoecology Of The Flora In Bunt 2vol
 - Highlighting and Note-Taking Palaeoecology Of The Flora In Bunt 2vol
 - Interactive Elements Palaeoecology Of The Flora In Bunt 2vol
8. Staying Engaged with Palaeoecology Of The Flora In Bunt 2vol

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Palaeoecology Of The Flora In Bunt 2vol
- 9. Balancing eBooks and Physical Books Palaeoecology Of The Flora In Bunt 2vol
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Palaeoecology Of The Flora In Bunt 2vol
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Palaeoecology Of The Flora In Bunt 2vol
 - Setting Reading Goals Palaeoecology Of The Flora In Bunt 2vol
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Palaeoecology Of The Flora In Bunt 2vol
 - Fact-Checking eBook Content of Palaeoecology Of The Flora In Bunt 2vol
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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