

Figure 1: a. Distribution of vegetation zones in the southern Levant; M = Mediterranean zone (Garrigue, maquis, woodland); IT = Irano-Turanian zone (steppeland); SA = Saharo-Arabian zone (desert); S = Sudanian zone (penetration territory) (after Zohary, 1973, 1982; Danin and Plitmann 1987); b. Map of the southern Levant indicating mean annual precipitation in mm (after Jaffe, 1988 – Dafna to check). Red star marks the location of JRD. c. The position of the southern Levant.

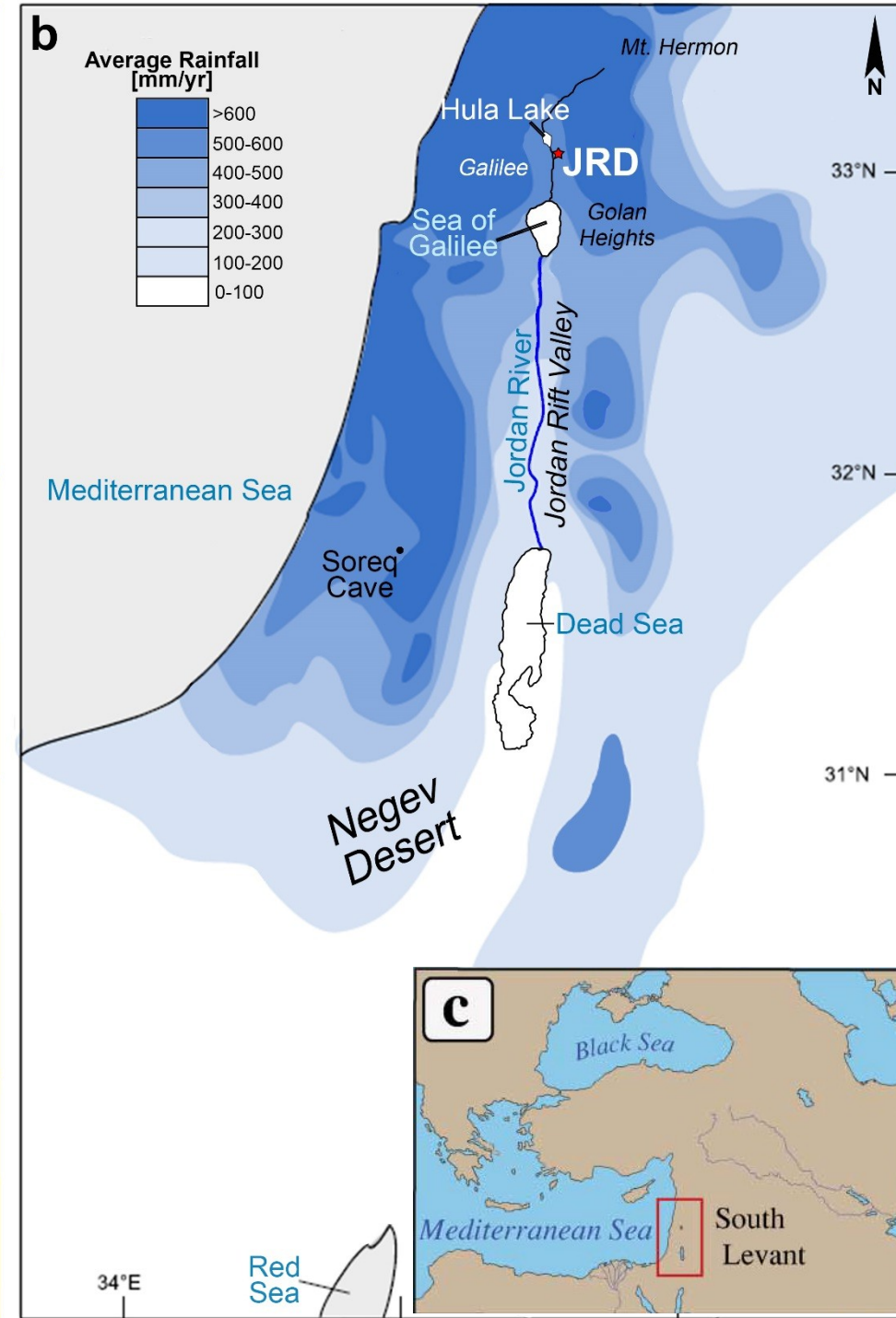
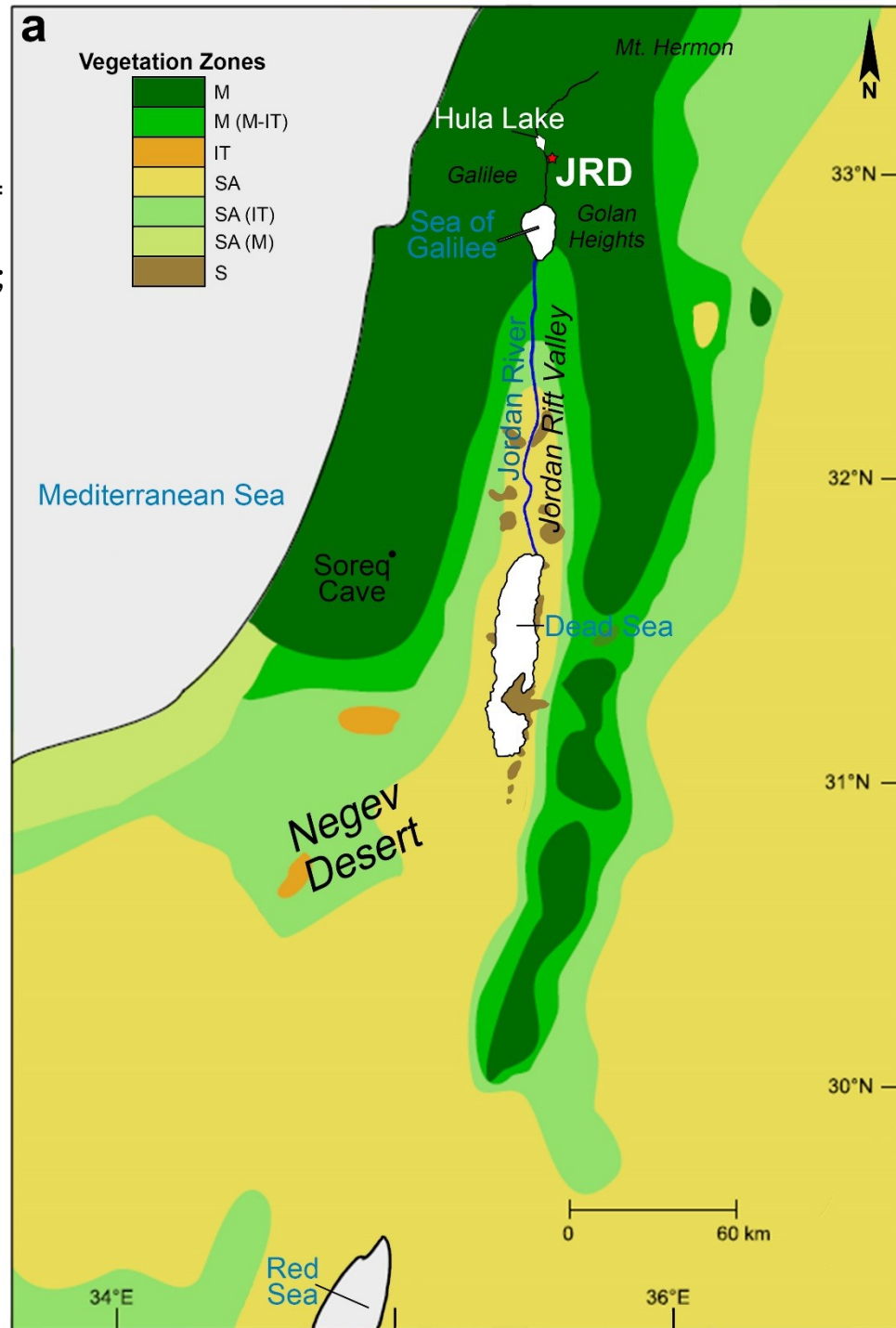


Figure 2: Location of JRD archaeological site (modified after Van-Zeist and Bottema, 2009: fig. 1).

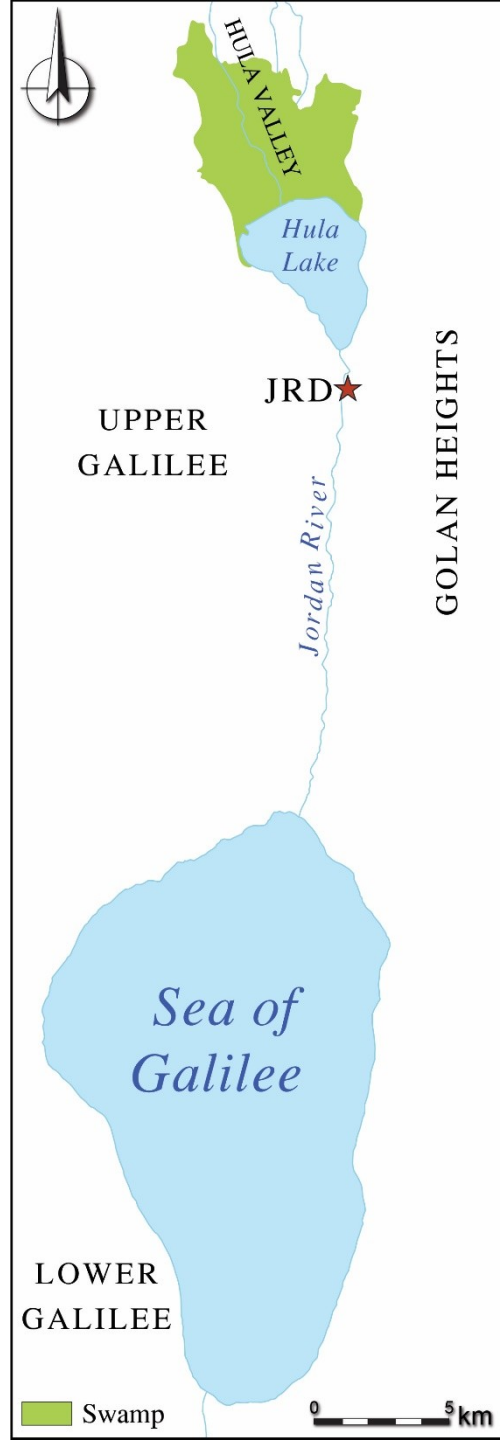


Figure 3: a). Ayelet Hashahar weather station data (x km from JRD^b - Gonen please add). Average monthly temperature and precipitation for the period of 2010-2020. Red bars represent seasonal average. Data downloaded from Israel Meteorological Service (2020). **b).** Normalized wind roses (m/s) for Jan 2015-Dec 2016, and seasonal for Dec-Feb (2014-2017) and Jun-Aug (2015-2016) (right) (taken from Rice, 2018: fig. 2.5).

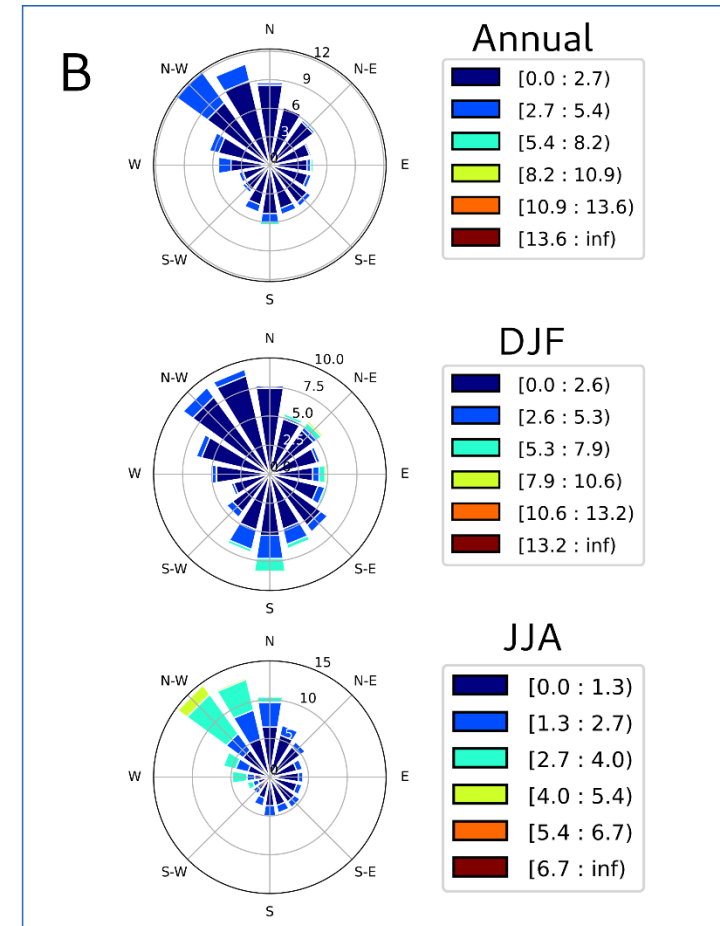
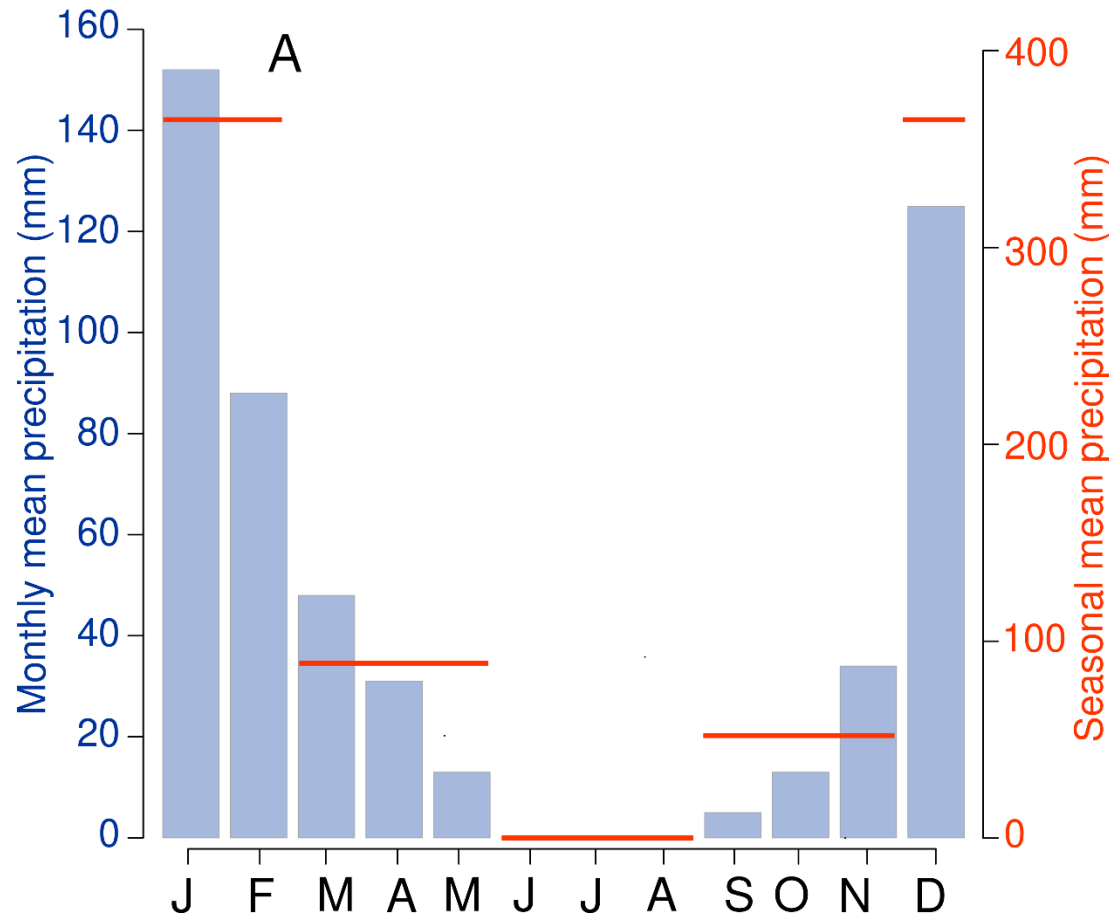


Figure 4:

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Figure 5: Pollen zones, radiocarbon chronology, archaeological layers, and cultural affiliation of the JRD sequence (After Sharon et al., 2020: fig. 4a)

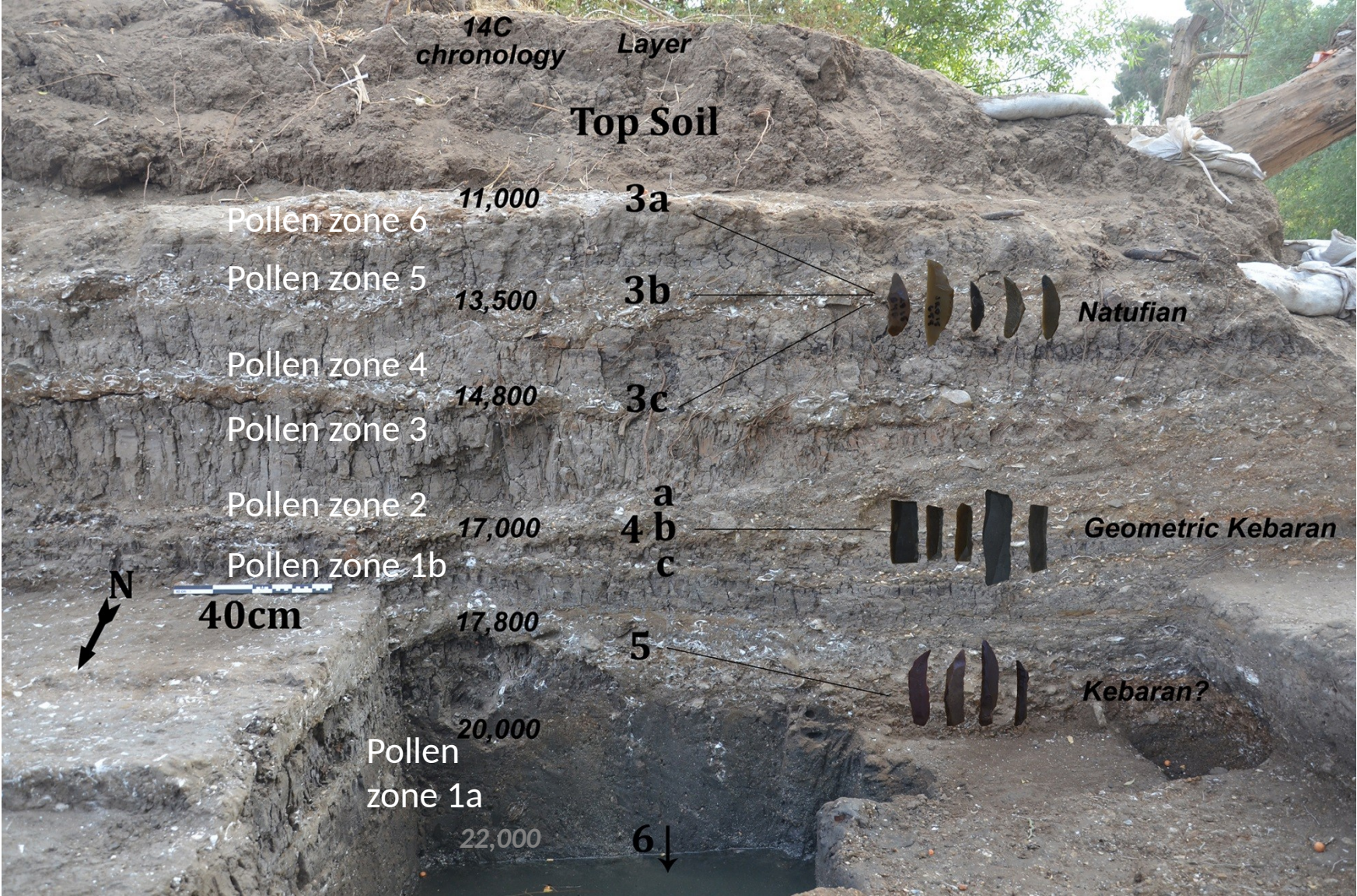


Figure 6: Age-depth model for the JRD section using the Bayesian Bacon software from the R package rbacon v2.3.9.1 (Blaauw and Christen, 2011).

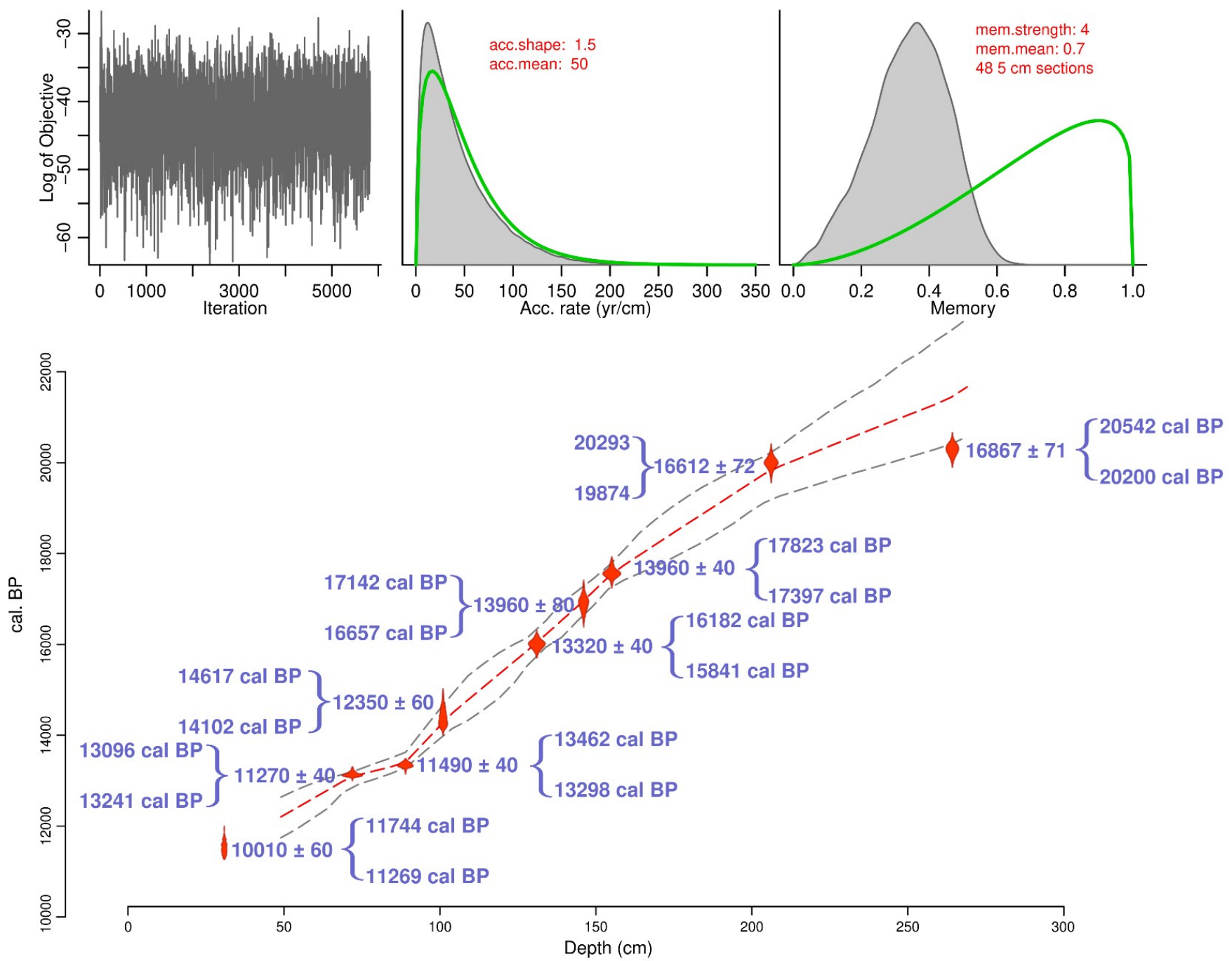
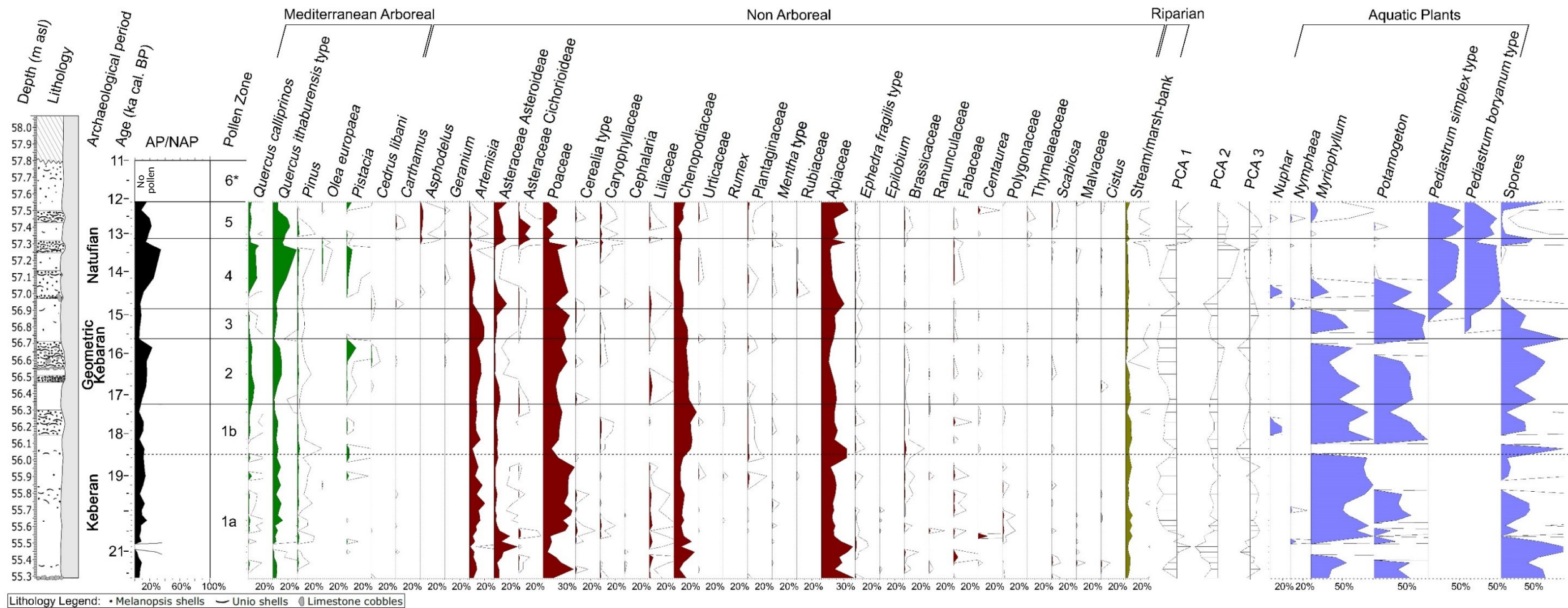


Figure 7: Simplified pollen diagram of the JRD sequence. A 10-fold exaggeration is used to show changes in low taxa percentages. Chronology is based on the age-depth model established in this study.



Lithology Legend: • Melanopsis shells — Unio shells ● Limestone cobbles

Figure 8: Jordan River Dureijat (JRD) paleoclimate model. a. January temperature (°C); b. Annual precipitation (mm); c. Winter precipitation (December-February); d. Spring precipitation (March-May); e. Autumn precipitation (September-November); f. Summer precipitation (June-August); g. $\delta^{18}\text{O}$ of Soreq Cave (Bar-Matthews et al., 2003). Red bars represent recent geographical settings.

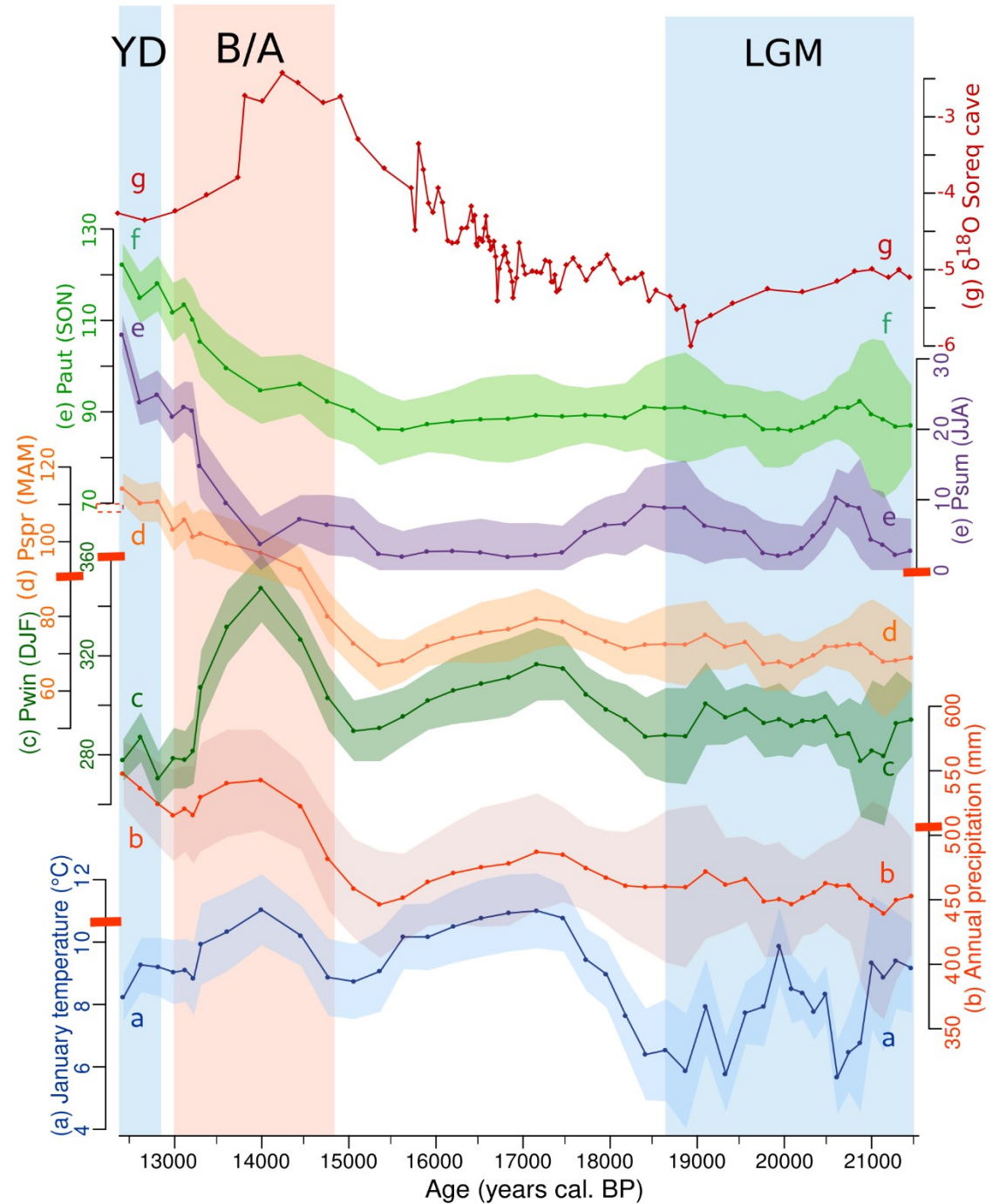


Figure 9: SEM Images of wood sections of most common taxa identified at JRD (Dafna to prepare)

