

Table 2. List of Late Pliocene-Early Pleistocene sites with altitude, number and type of samples, type of floral remains preserved, ages, and source of information (* pre-cyclostratigraphy ages).

Site name altitude/water depth	Type of sample Number of samples	Type of floral remain	Age & MIS	Means of dating	Source
GARRAF 1 -110 m	19 spectra in marine sediment	pollen	PII & III MIS 108->98	foraminifera stratigraphy	Suc and Cravatte, 1982, Suc and Popescu, 2005
INCARCAL 150 m	400 leaves in 2 levels of lacustrine calcarenite	leaves	Early Pleistocene: 2.1-1.6 Ma*	large mammals and vegetation history (older than Bòbila Ordís)	Villalta and Vicente, 1972, Roiron, 1983, 1992
TRES PINS 210 m	111 spectra in lacustrine sediment	pollen	Early Pleistocene (2.6-1.2 Ma)	vegetation history and older than Bòbila Ordís	Leroy, 1997
BÒBILA ORDÍS 190 m	>250 spectra in lacustrine sediment	pollen	Early Pleistocene: MIS 36-33	micromammals and palaeomagnetism	Elhaï, 1966, Geurts, 1977, Julià and Suc, 1980, Leroy, 1997, 1988, 2008
MOLÍ VELL 150 m	26 spectra in lacustrine sediment	pollen	Early Pleistocene	younger than Bòbila Ordís	Geurts, 1977, 1979, DeDeckker et al., 1979
CAL. GUARDIOLA 310 m	27 pollen spectra + 100 woods in debris flow	pollen wood	Early-Middle Pleistocene: 1.2-0.8 Ma	micromammals and palaeomagnetism	Postigo et al., 2007
ATAPUERCA 910 m	4 + 8 samples in doline infill	pollen	TD6=MIS25; Early-Middle Pleistocene transition within top of TD7	luminescence	Cattani et al., 1994, García- Antón, 1995, Páres and Pérez-González, 1999, Burjachs, 2001, Berger et al., 2008
ODP 976 -1107 m	59 samples of marine sediment	pollen	from Early Pleistocene upwards; MIS31=>23	$\delta^{18}\text{O}$ curve, biostratigraphic markers, comparing to other $\delta^{18}\text{O}$ curves and orbital tuning	Combourieu-Nebout et al., 1999, Joannin, 2007