

Basin (Reference)	Formation/Site	Sample	Age ^a	# Grains Analyzed	# Grains >2σ blank	Modified Threshold ^b	% C ₄ -Grass Pollen using Modified Threshold ^c	% C ₄ -Grass Pollen using Modified Threshold +1.0‰ ^c	% C ₄ -Grass Pollen using Modified Threshold +2.0‰ ^c	% C ₄ -Grass Pollen using Modified Threshold +3.0‰ ^c
Rubielos de Mora (Jiménez-Moreno et al., 2007)	Rubielos de Mora-1	RUM 19	Langhian/ Burdigalian (15 - 20 Ma)	190	63 (33%)	-19.4‰	32.8%	28.1% (23.4-32.8)	23.4% (21.9-28.1)	21.9% (17.2-23.4)
		RUM 32		165	87 (53%)	-19.4‰	26.4%	23.0% (20.7-26.4)	20.7% (19.5-22.3)	19.5% (16.1-20.7)
		RUM 57		158	91 (57%)	-19.7‰	37.4%	35.2% (29.7-37.4)	29.7% (23.1-35.2)	23.1% (20.8-29.7)
		RUM 76		139	100 (72%)	-20.2‰	40.0%	35.0% (32.0-40.0)	32.0% (28.0-35.0)	28.0% (24.0-32.0)
Provence Basin (Châteauneuf & Nury 1995)	Aix en Provence	PR1-135	Chattian (24-27.5 Ma)	222	82 (37%)	-20.2‰	37.8%	35.4% (32.9-37.8)	32.9% (32.9-35.4)	32.9% (31.7-32.9)
		PR1-155		199	98 (49%)	-20.2‰	29.6%	25.5% (20.4-29.6)	20.4% (17.4-25.2)	17.4% (15.3-20.4)
Paris Basin (Châteauneuf 1980)	Bois d' Automne	N B4	Lower Rupelian (32-33 Ma)	217	86 (40%)	-19.8‰	47.7%	43.0% (39.5-47.7)	39.5% (37.2-43.0)	37.2% (33.7-39.5)
	Mezières	Well 55a	Priabonian-Rupelian (33 - 34 Ma)	221	79 (36%)	-19.9‰	62.0%	58.2% (43.0-62.0)	53.2% (43.0-58.2)	43.0% (39.2-53.2)

^aAs provided in the references for each site.^bmodified from -19.2‰ to compensate for changes in δ¹³C of atmospheric CO₂ using an offset of -8‰ between δ¹³C of atmospheric CO₂ and marine carbonate, as described in the text.^cnumbers in parentheses represent range of % C₄-grass pollen using -7‰ and -9‰ offset between δ¹³C of atmospheric CO₂ and marine carbonate.