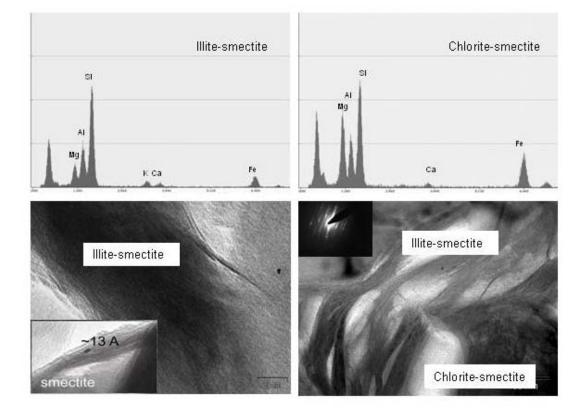
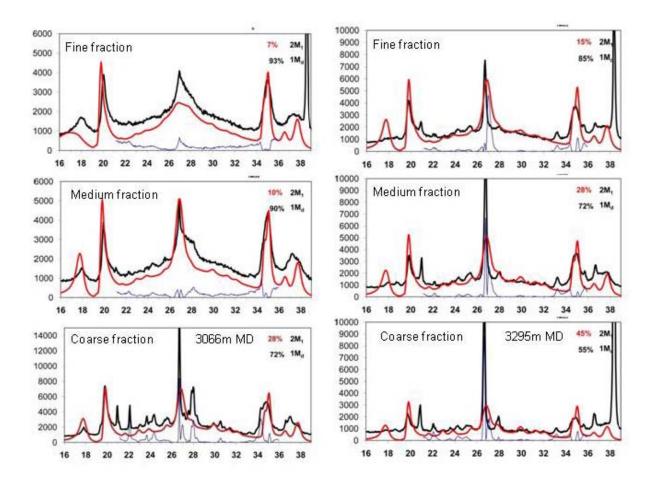
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Best matches of calculated WILDFIRE patterns with the different grain size fractions of the natural SAFOD samples.

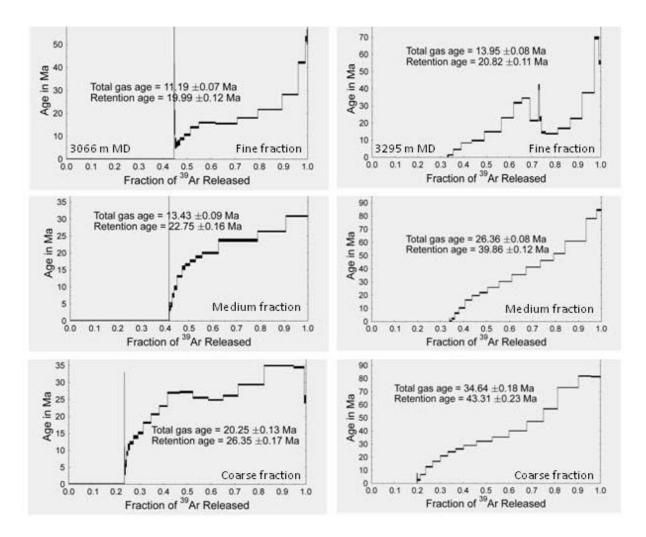


Table containing depth, grain-sizes, %1M and 2M illite, total gas age and retention age data of the two sample-sets investigated.

depth	grain size	% 1M	% 2M1	TGA	RA
(m)	(µm)	illite	illite	(Ma)	(Ma)
3066	< 0.2	93	7	11.19 ± 0.07	19.99 ± 0.12
	0.2-0.4	90	10	13.00 ± 0.05	20.99 ± 0.08
	0.4-1	83	17	13.43 ± 0.09	22.75 ± 0.16
	1-2	72	28	20.25 ± 0.13	26.35 ± 0.17
3296	< 0.1	85	15	13.95 ± 0.08	20.82 ± 0.11
	0.1-0.75	72	28	26.36 ± 0.08	39.86 ± 0.12
	0.75-1.0	55	45	34.64 ± 0.18	43.31 ± 0.23