

Sedimentary rhythm of sapropels during 5.3 M.a. in the eastern Mediterranean, ODP Leg160

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One of the most important improvements of Ocean Drilling Program(ODP) Leg 160 lies with the recovery of continuous hemipelagic sequences that include more than 80 discrete sapropels in the eastern Mediterranean Sea. The prime reason for success was the high core recovery achieved by multiple APC (Advanced Piston Core) coring. Composite depth sections has developed over 120 m long Pliocene - Holocene sediment sequences at ODP Leg 160 sites to take in to account differential stretching and squeezing effects within a core caused by coring artifact and tectonic disturbances. Using these composite depth sections, high-resolution timescales and paleoceanographic timeseries has been developed to discuss mystery of sapropels formation and climatic response to insolation variations.