



Figure S2. Determination of Ca-P species using differential dissolution (CONVEX method). (a) Alkaline sediment samples with high proportions of OCP. (b) Neutral and acidic sediment samples with little or absent OCP. (c) CONVEX scheme for quantification of phosphorus species in sediment. 1A/1B: Conversion procedure (pH adjustment for differential dissolution), 2A-3C: Extraction procedure. Differential dissolution of OCP, CFAP and FAP occurred at pH ranges of c. >6.9, 3.5-6.9 and 3.0-3.5, respectively. Standard addition of OCP is shown for tidal flat sediment in S2a to exemplify OCP determination by differential dissolution. See Oxmann and Schwendenmann (2014) for data analysis, other standard additions and method validation. TiFl: tidal flat; Rive: river; Man: mangrove; Past: pasture.