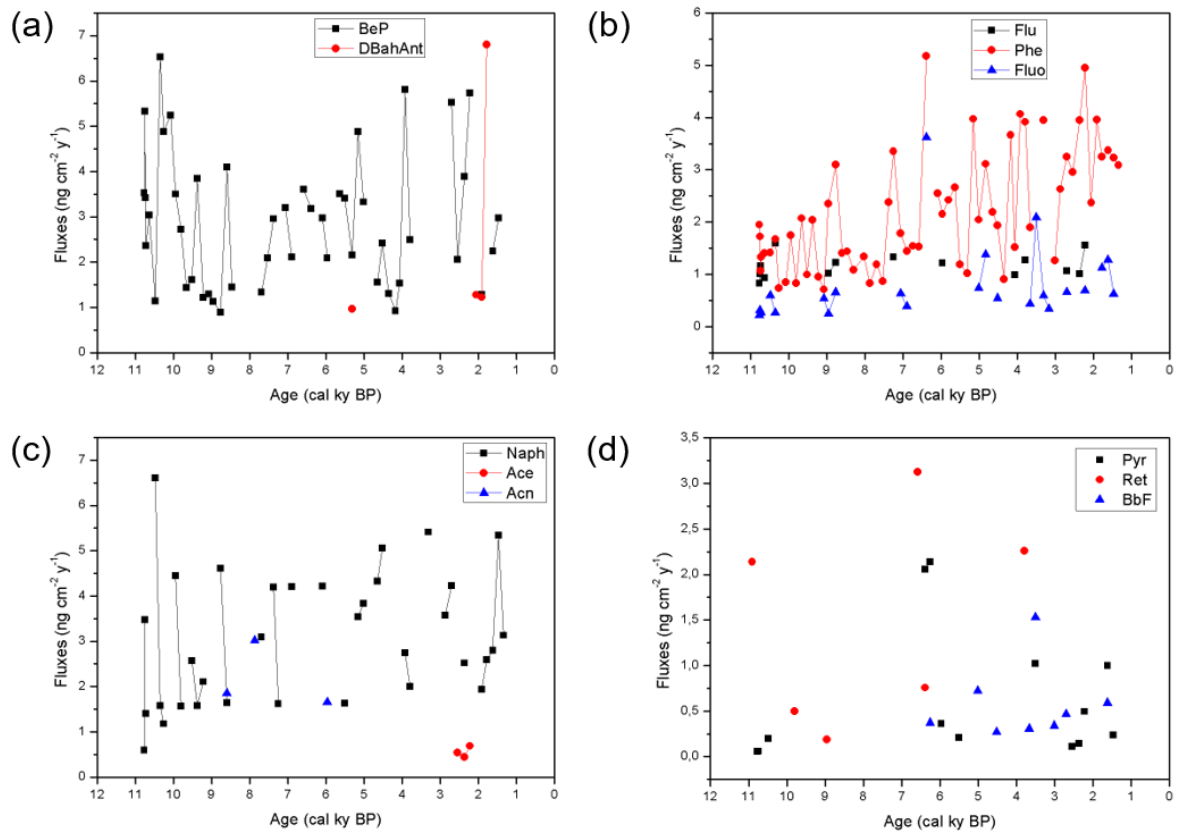
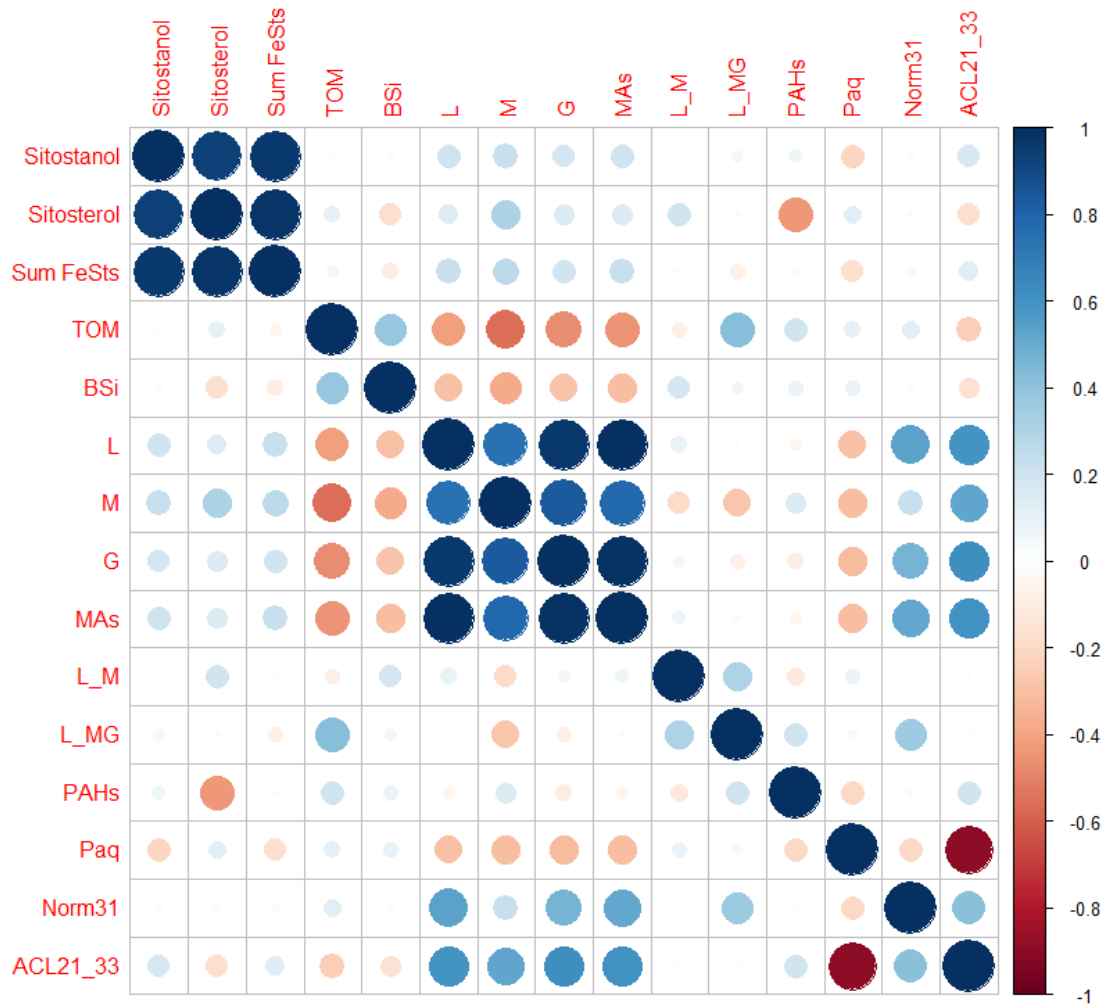


S1: Major climatic systems acting on the Tibetan Plateau. Image source: Dong et al., 2010.



**S2:** PAHs obtained fluxes for Paru Co B11. (a) Benzo[*e*]pyrene (BePyr) and Dibenz[*a,h*]anthracene (DBahAnt). (b) Fluorene (Flu), Phenanthrene (Phe) and Fluoranthene (Fluo). (c) Naphthalene (Naph), Acenaphthylene (Acy) and Acenaphthene (Ace). (d) Pyrene (Pyr), Retene (Ret) and Benzo[*b*]fluoranthene (BbF).



S3: Pearson's correlation chart for Paru Co complete dataset (10.9 – 1.3 ky BP).