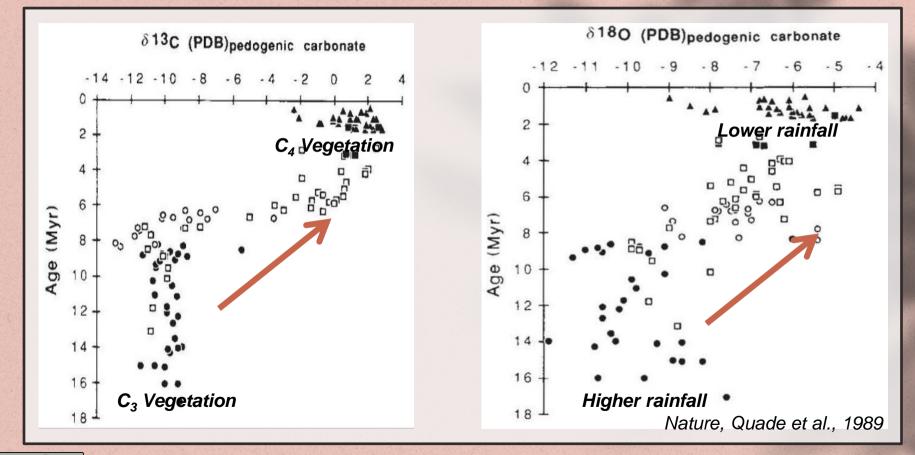
Morpho-tectonic control on the distribution of C₃-C₄ plants during Late Plio-Pleistocene in the central Himalayan Siwaliks [#]

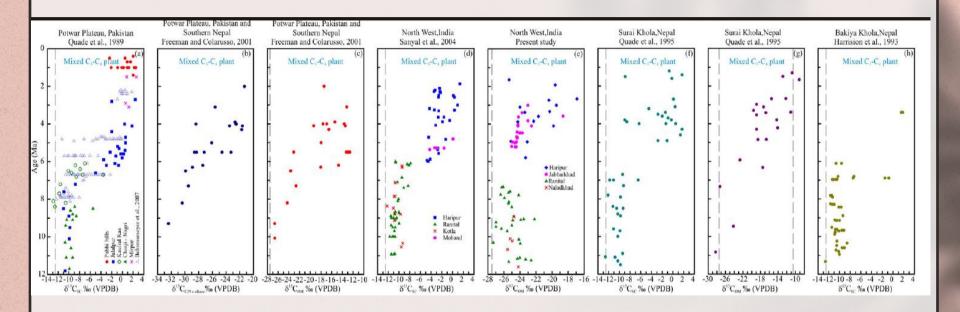
<u>Prasanta Sanyal</u>[^], Biswajit Roy^{*}, Sambit Ghosh IISER Kolkata, India [^]psanyal@iiserkol.ac.in *biswajitgeo92@gmail.com



Marked ecological shift during the late Miocene



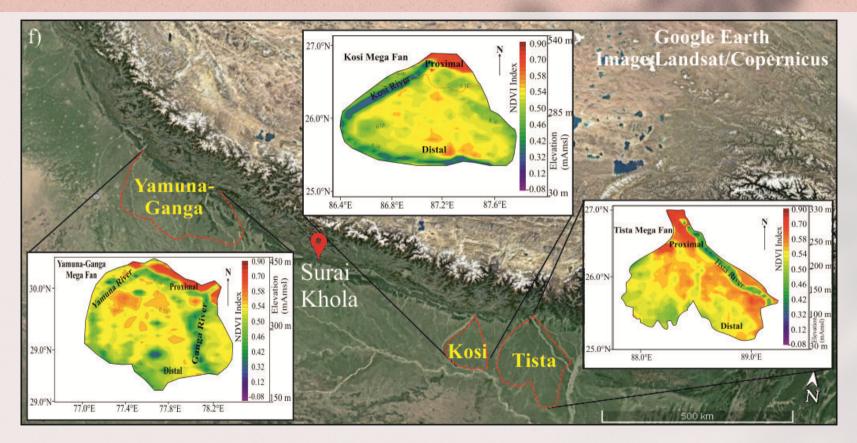
Marked ecological shift along HFB



Organic Geochemistry, Ghosh et al., 1989

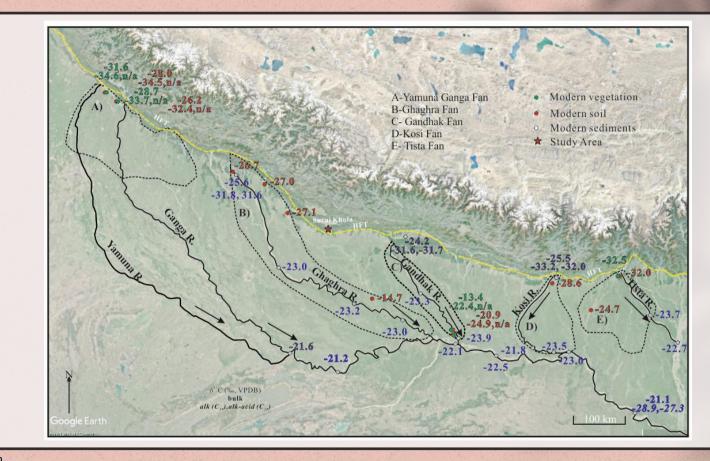


Modern alluvial fan along the Himalaya



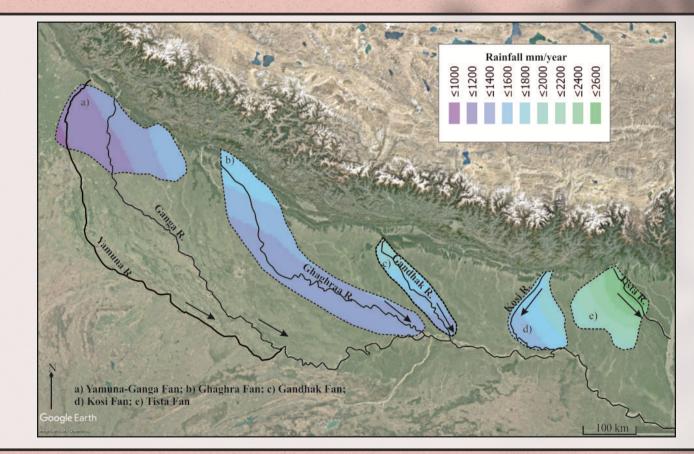


Carbon isotopic distribution across modern alluvial fans



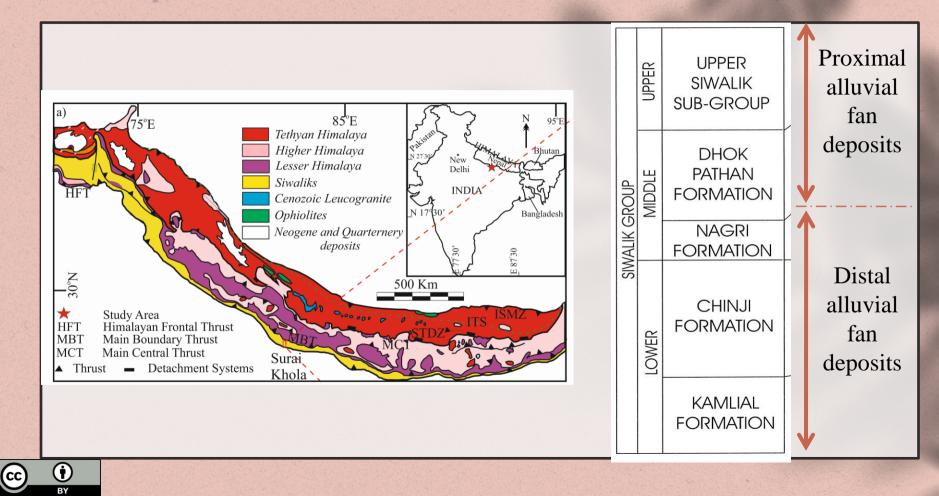


Rainfall variation across modern alluvial fans

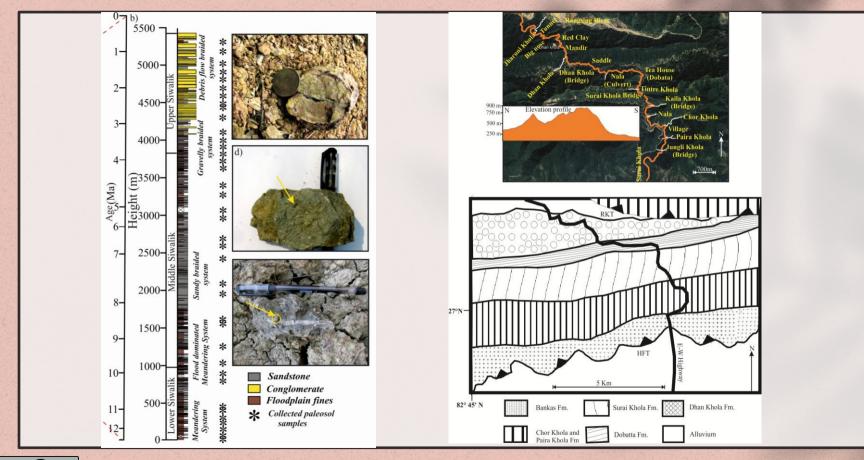




Siwalik deposits in HFB

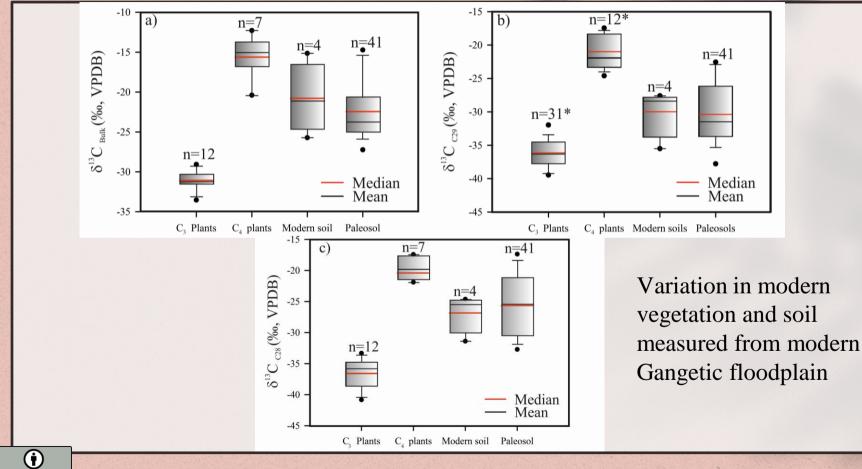


Surai Khola Siwaliks



 $(\mathbf{\hat{e}})$ (cc) BY

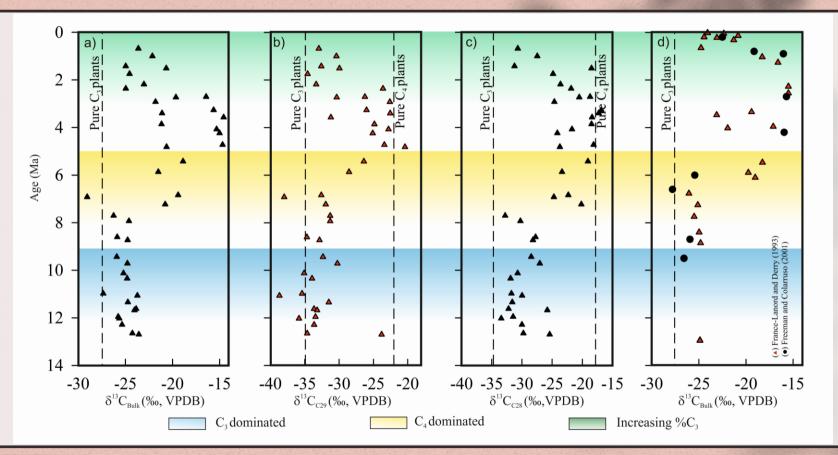
Carbon isotopic distribution



BY

(cc)

Temporal variation in carbon isotopic composition

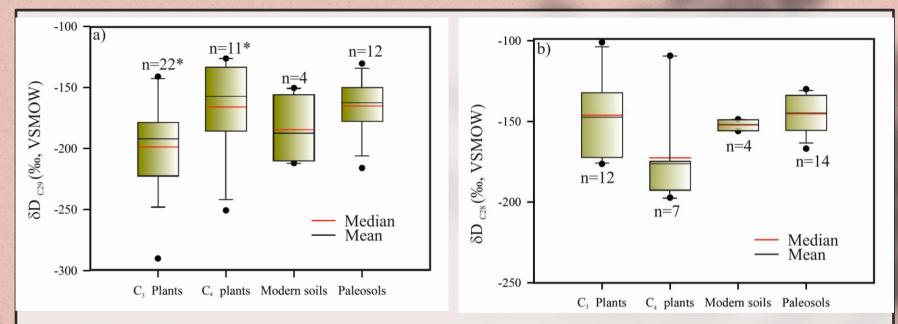


Hydrogen isotopic distribution

 $(\mathbf{\hat{I}})$

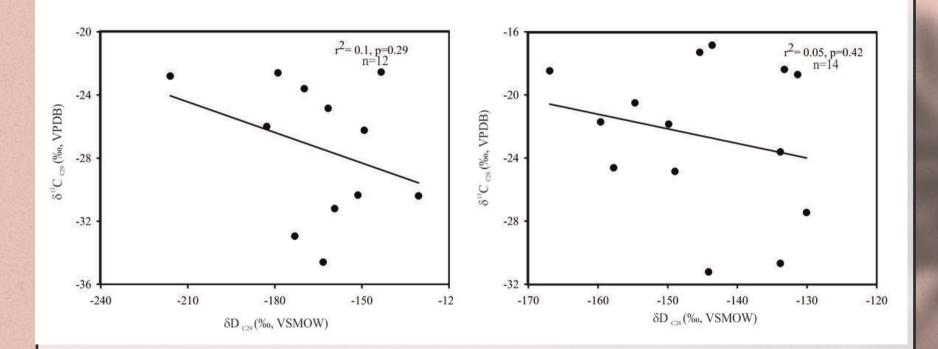
BY

(cc)



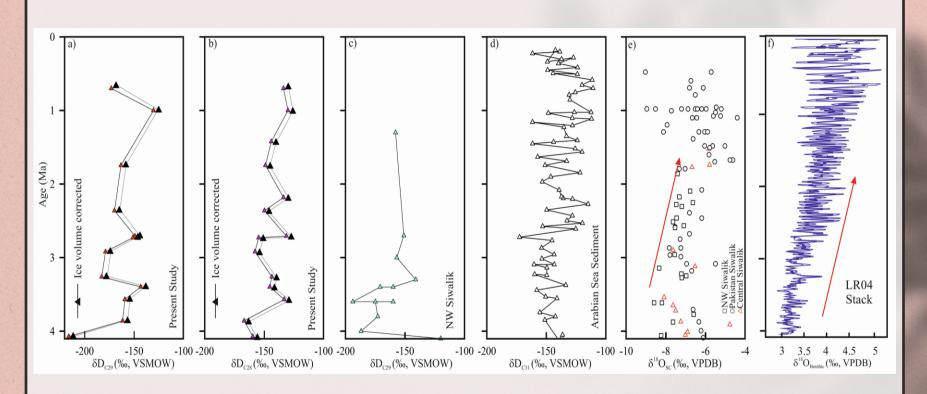
Variation in modern vegetation and soil measured from modern Gangetic floodplain

Climate vegetation relationship (last 4 Myr)

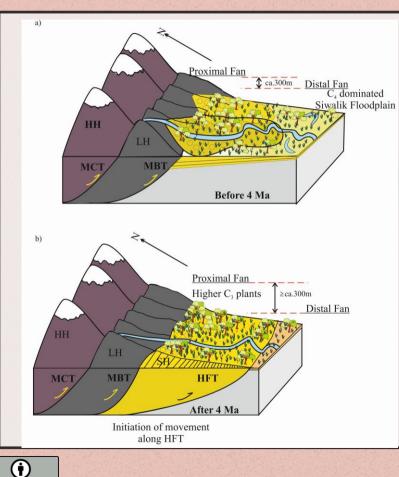




Temporal variation in climatic proxies (last 4 Myr)



Schematic model for last 4 Myr vegetation change



BY



Thank You for more details please check the published article



Contents lists available at ScienceDirect

Earth and Planetary Science Letters

www.elsevier.com/locate/epsl

Morpho-tectonic control on the distribution of C_3 - C_4 plants in the central Himalayan Siwaliks during Late Plio-Pleistocene



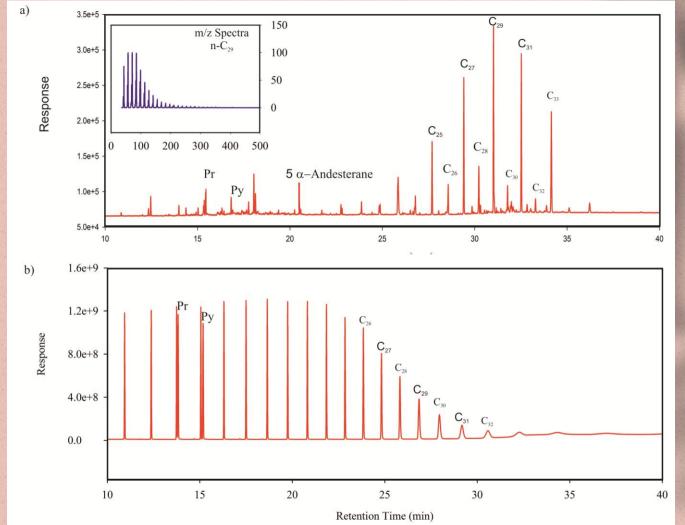
EARTH

Biswajit Roy ^{a,*}, Sambit Ghosh ^a, Prasanta Sanyal ^{a,b}

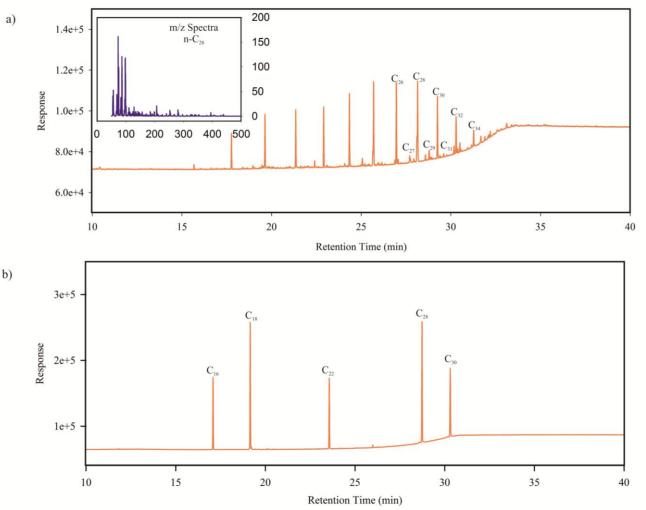
^a Department of Earth Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur 741246, India

^b Centre for Climate and Environmental Studies, Indian Institute of Science Education and Research Kolkata, Mohanpur 741246, India



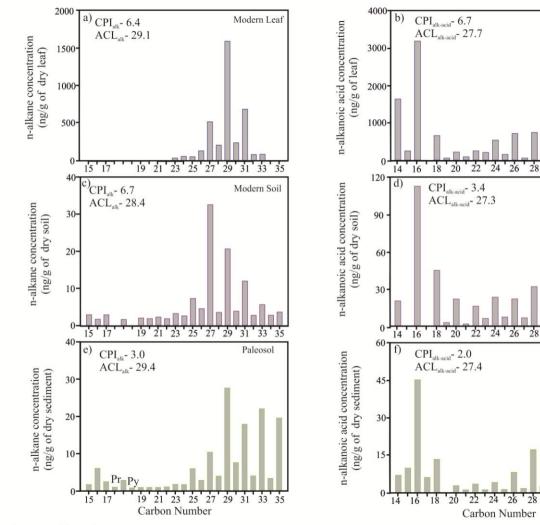


() BY (cc)



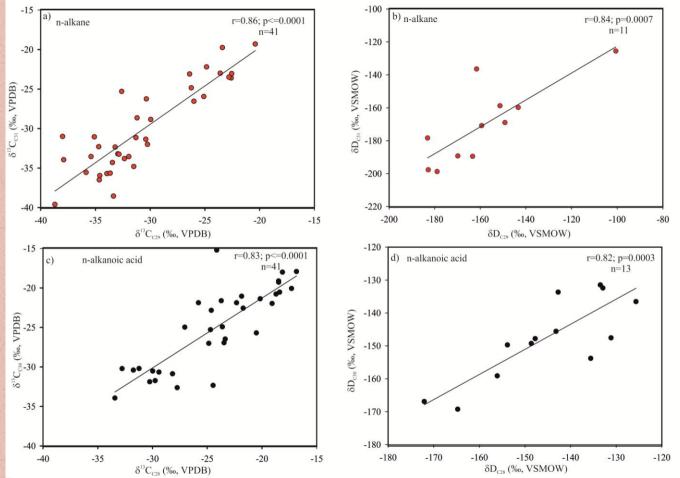
b)

() BY (cc)



30 32 34

Modern Leaf



ВУ