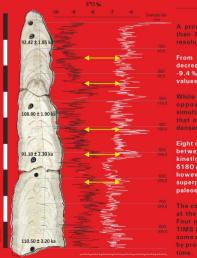
— Potential and Objectives –



Greater study area (red rectangle) and first Figure 2: 3D-View of the Lazareva Canyon where the

2 — The Record: Stalagmite Vernjikica 4.2 —



From bottom to top, oxygen isotopic values decrease from averagely -8.5 % (PDB) to about -9.4 %; carbon isotopic values increase from lower values (-8.8 %) towards higher values (-6.0 %).

denser and darker laminae (

Eight out of eleven Hendy tests show a correlation between the isotopic records, suggesting that kinetic effects might be important. As variation of δ 180 and δ 13C along the growth axis is not coeval. however, the isotopic record is not entirely superposed by kinetic fractionation and useful for paleoenvironmental reconstructions

10 -9 -8 -7 -6 -5 -4 -3 -2 growth of Vernjikica 4.2 to the last interglacial

Speleothems from the Balkan Peninsula (Serbia & Montenegro)

Late-Quaternary Records of Atmospheric Circulation and Changing Seasonality since the Last Interglacial

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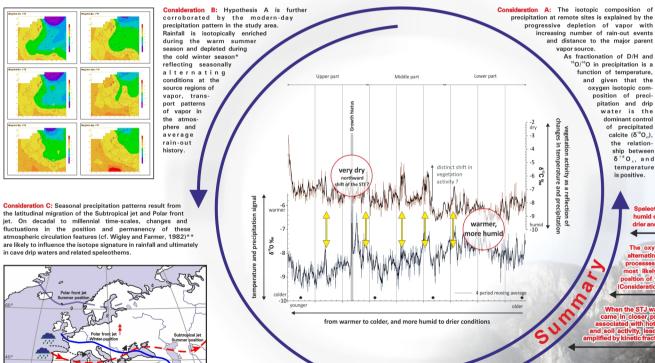








3 — Assessing the Proxy Record and its Paleoclimatic Signature -



* Winley T. M. L. and G. Farmer (1982): Climate of the easters y, 1, Mi, L., and G. Ferrier (1902). Crimate of the destina-nean and Near East. In: Pelaeoctimates, Paleocenvironments and ommunities in the Eastern Mediterranean Region in Later Prehistory, Part Edited by J. L. Bintliff and W. van Zeist, pp. 3-37, British Archaeological Reports, Oxford

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ship between Figure 3: Present local climate of the study site is δ 18 O , and determined by its leeward position at the eastern temperature fringes of the Carpatho-Balkan: precipitation maxima occur in May/June and November

Speleothem growth commenced at a time of warm and humid environmental conditions that gradually changed t drier and colder conditions during the growth period

Once the chronology of the Vernjikka-4.2 record is in duration of described events in the proxy, record, includir increases in 5180 as well as 513C; will be fully explored.