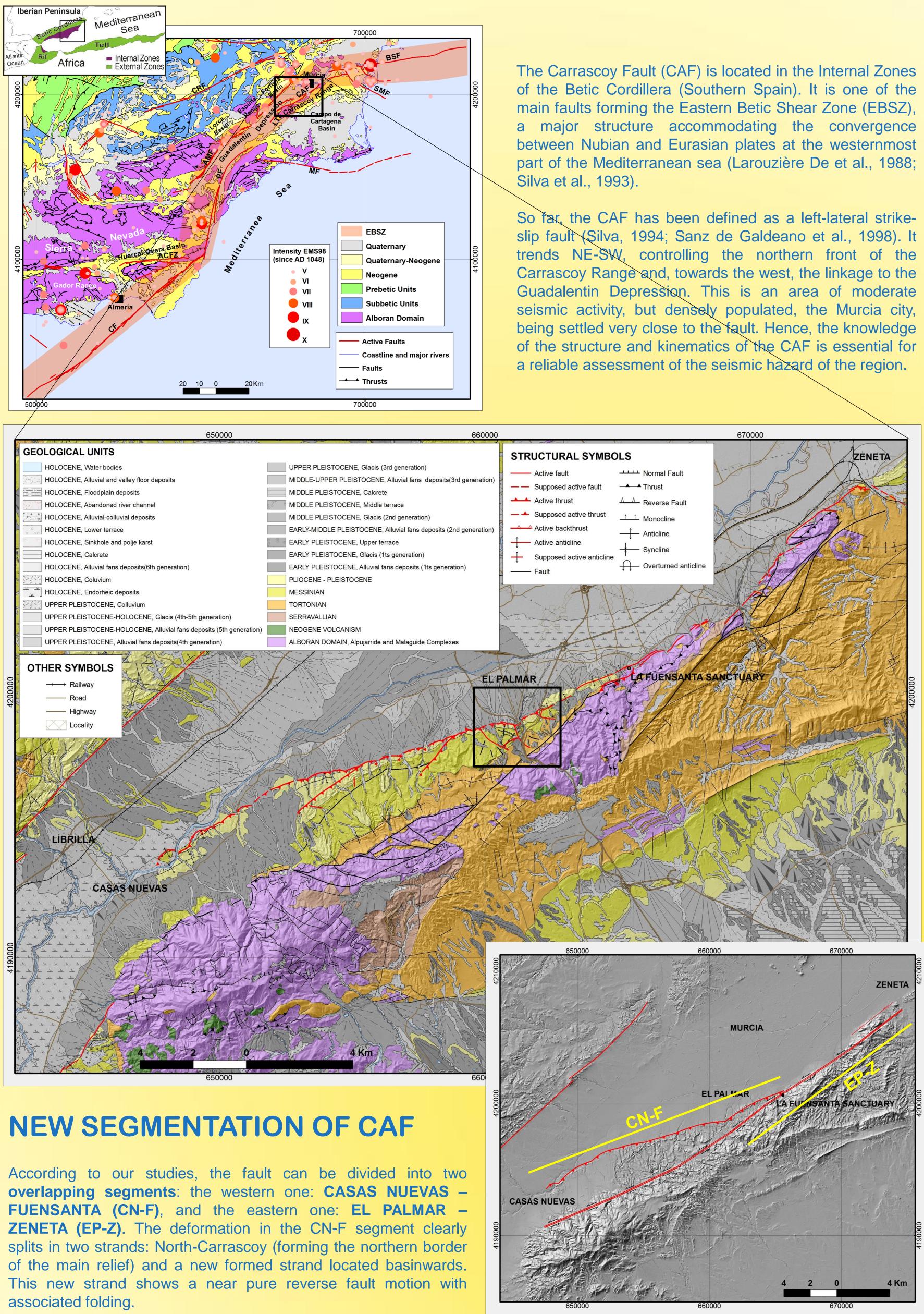
# B448. UPPER PLEISTOCENE - HOLOCENE ACTIVITY OF THE CARRASCOY FAULT (MURCIA, SE SPAIN): PRELIMINARY RESULTS FROM PALEOSISMOLOGICAL RESEARCH

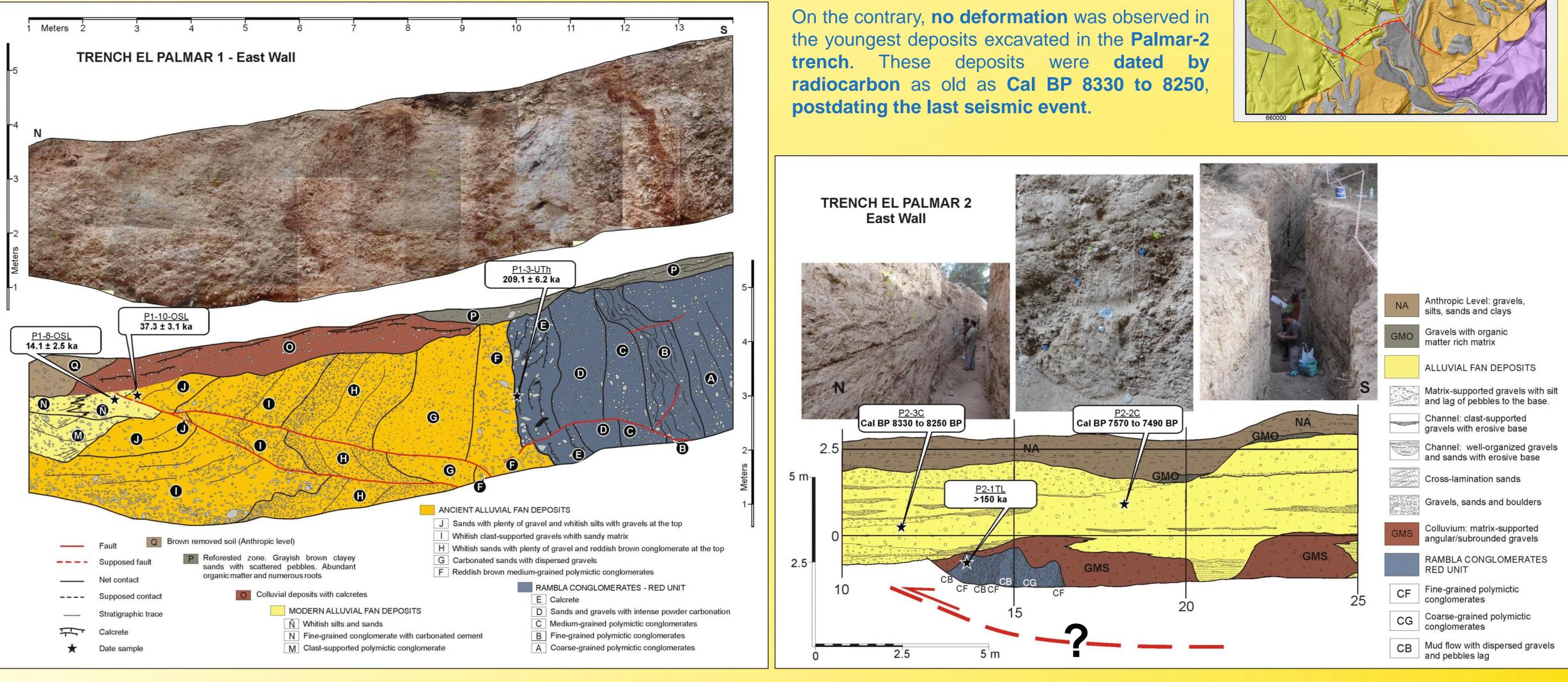
Martín-Banda, R.<sup>1</sup>, García-Mayordomo, J.<sup>2</sup>, Insua-Arévalo, J.M.<sup>1</sup>, Salazar, A.<sup>2</sup>, Rodríguez-Escudero, E.<sup>3</sup>, Álvarez-Gómez, J.A.<sup>1</sup>, Martínez-Díaz, J.J.<sup>1</sup>, Herrero, M.J.4, Medialdea, A.<sup>5</sup> 1.- Dept. of Geodynamics. Complutense University of Madrid. Spain. raquem08@ucm.es; jaalvare@ucm.es; jaalvare Geology and Geochemistry. Autónoma University of Madrid. Spain. mjherrer@ucm.es. 5.- Geoscience Dept. Aarhus University. Denmark. a.medialdea@sheffield.ac.uk

# FAULT TRACE MAPPING

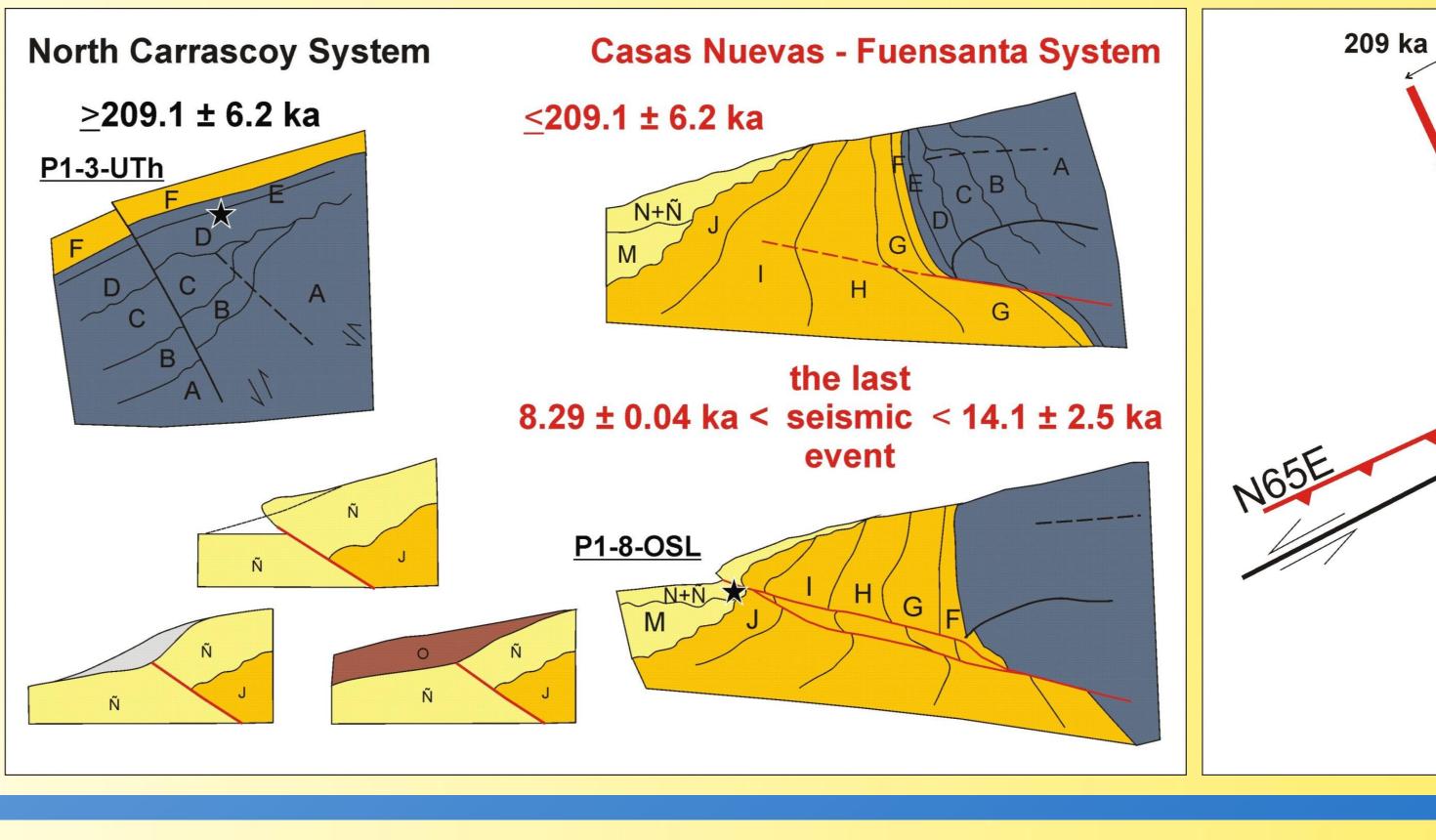


## PALEOSEISMIC STUDY OF CN-F SEGMENT

Palmar-1 and Palmar-2 are the names of two trenches dug across the CN-F segment. Palmar-1 trench intercepted the fault, showing its reverse kinematics. At least, one paleoseismic event was identified. The most recent deposits affected by the fault have been dated by **Optically Stimulated Luminescence (OSL)** 







### REFERENCES

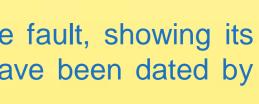
Sierra de Carrascoy (provincia de Murcia). Geogaceta. 23. 139-142. Tectonophysics. 224, 289-303.

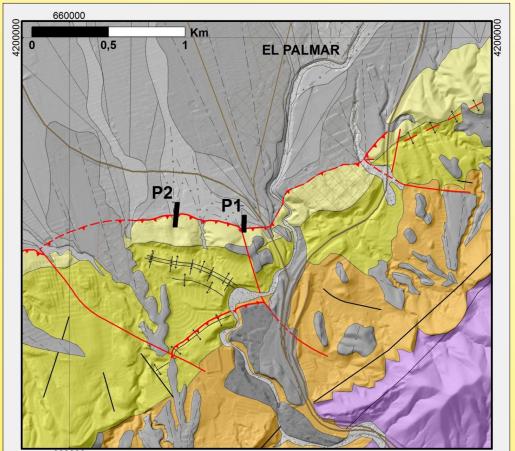
Detailed geological and geomorphological mapping suggest: 1. The division of CAF into two new segments of different kinematics and geometry: Casas Nuevas - Fuensanta and El Palmar - Zeneta.

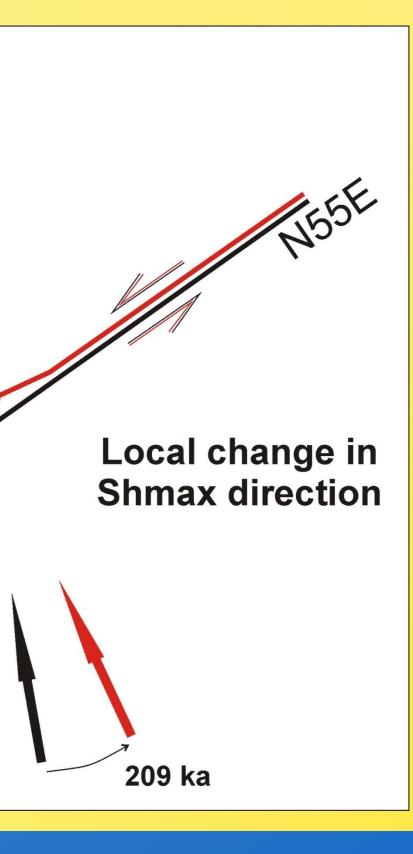
Larouzière De, F., Bolze, J.J., Larouzière De, F.D., Montenat, C., Ott d'estevou, P., 1988. The Betic segment of the lithosphericTrans-Alboran shear zone during the Late Miocene. Tectonophysics. 152, 41-52. Sanz de Galdeano, C., López-Garrido, A.C., García-Tortosa, F.J., 1998. Nuevos datos para la estimación de los valores de levantamiento desde el Tortoniense Superior a la actualidad en la parte centro-occidental de la

- Silva, P.G., 1994. Evolución Geodinámica de la depresión del Guadalentín (Murcia) desde el Mioceno Superior hasta la actualidad: Neotectónica y Geomorfología. Ph.D. Tesis, Universidad Complutense de Madrid, Spain. - Silva, P.G., Goy, J., Somoza, L., Zazo, C., Bardají, T., 1993. Landscape response to strike-slip faulting linked to collisional settings: Quaternary tectonics and basin formation in the eastern Betics, southeastern.









2. A local change in the horizontal maximum direction, that shortening evolved from progressively NNW-SSE to NW-SE, the responsible for ormer beind strike-slip the Upper kinematics since Tortonian and the latter for an increase in the **reverse** component the fault of from Middlemovement **Upper Pleistocene times.** 

The paleoseismic study suggests that a change in Shmax occurred about 209 ka (upper part of the Middle Pleistocene), and that the last surface rupture event took place between 14.1 and 8.3 ka.



