

UNDERSTANDING THE GEODYNAMIC EVOLUTION OF THE NORTH SISTAN OROGENIC BELT (NE IRAN)

Iranian research center:

Geological Survey of Iran, Tehran
University of Birjand, Birjand

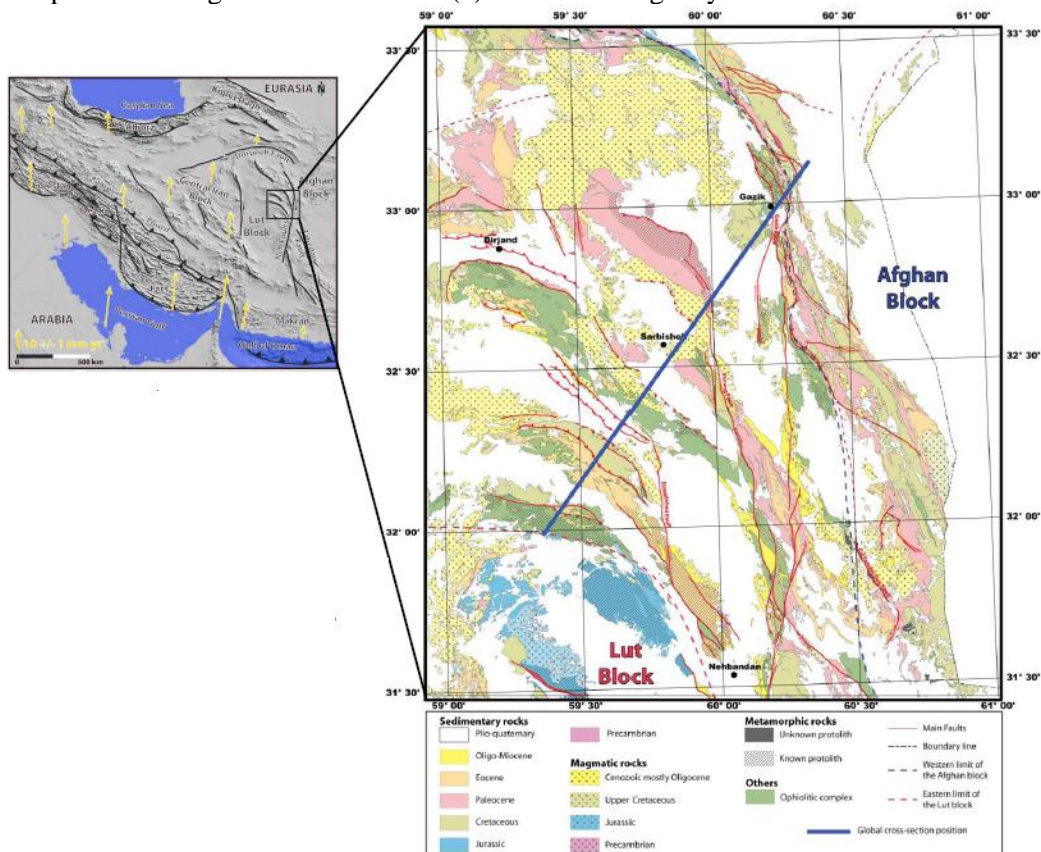
French research center:

ISTeP Sorbonne Université, Paris
EOST University of Strasbourg, Strasbourg

Iranian researchers: Omrani J., Khatib M. H., Zarrinkoub M. H.

French researchers: Jentzer M., Agard P., Fournier M., Whitechurch H., Bonnet G., Monié P.

This project aims at elucidating the complex geodynamic evolution of the North Sistan orogenic belt resulting from the closure of a small oceanic branch of the Neo-Tethys Ocean in NE Iran. This region hosts a large diversity of rocks. Three targets are currently addressed: (1) provide detailed SW-NE cross-sections of this belt (2) perform a petrological analysis of (a) metamorphic rocks to determine the P-T-t paths and (b) magmatic rocks to determine the sources and ways of partial melting. All this is used to (3) constrain the geodynamic evolution of the area.



Publications

Jentzer, M., Fournier, M., Agard, P., Omrani, J., Khatib, M.M. and Whitechurch, H., 2017. Neogene to Present paleostress field in Eastern Iran (Sistan belt) and implications for regional geodynamics. *Tectonics*, 36(2), pp.321-339.