



Applied Technology and Best Practices in CEE

Conference

Budapest, 17 November 2011

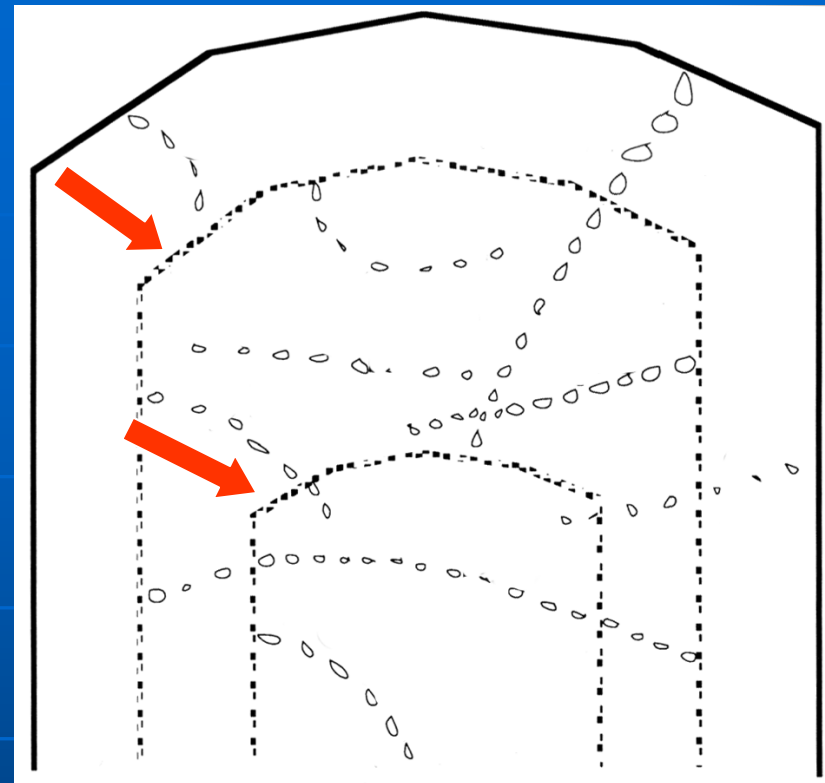
Society of Petroleum Engineers

The Role of Fluid Inclusions in the Petroleum Exploration

Dabi Gergely, Schubert Félix

University of Szeged
Mineralogy, Geochemistry and Petrology



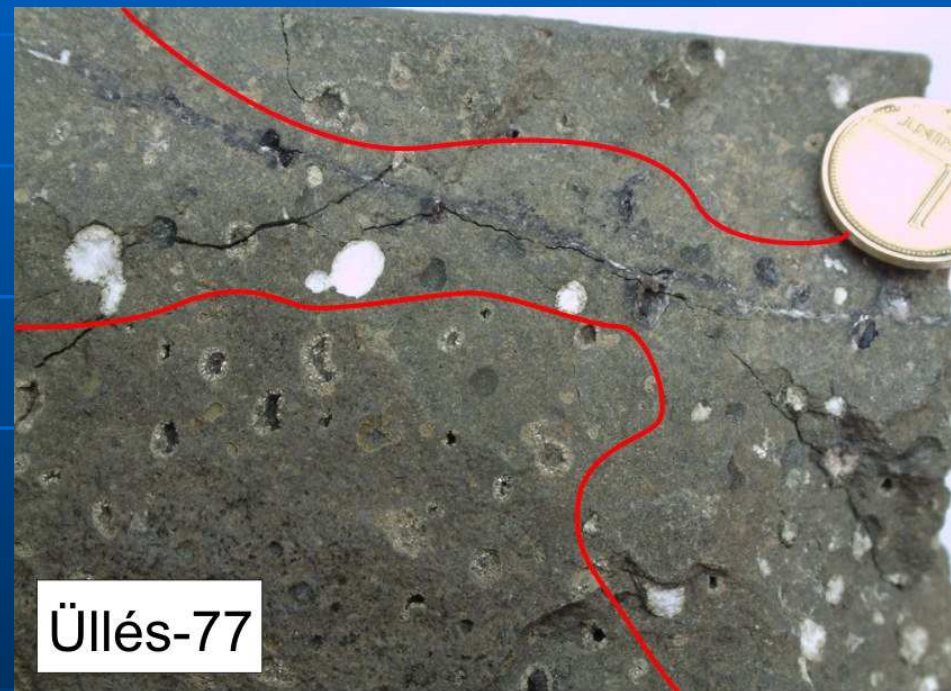
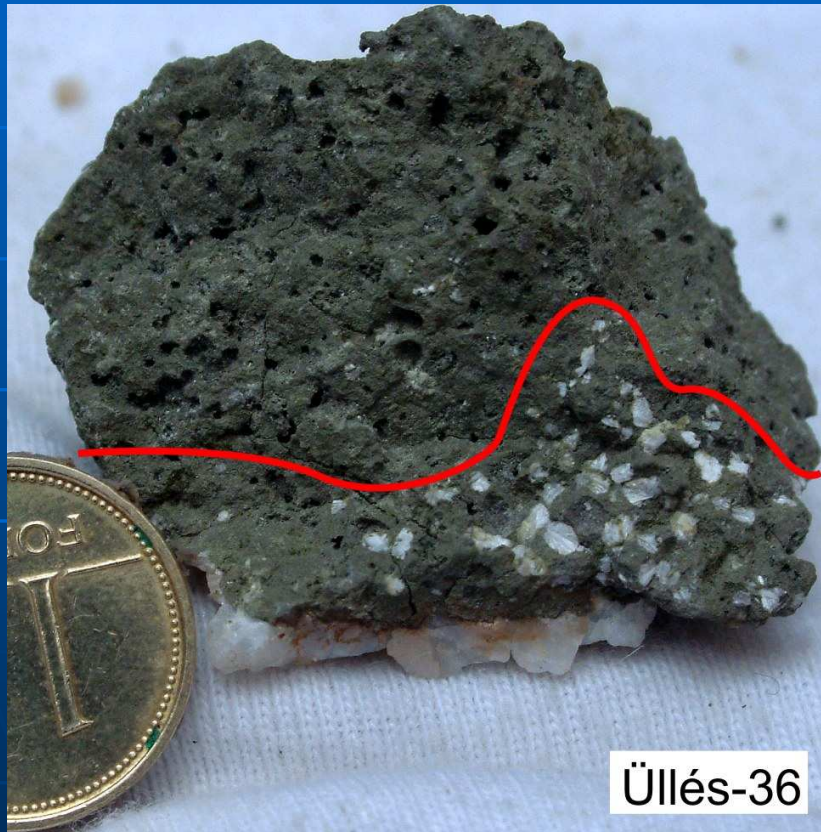


Primary

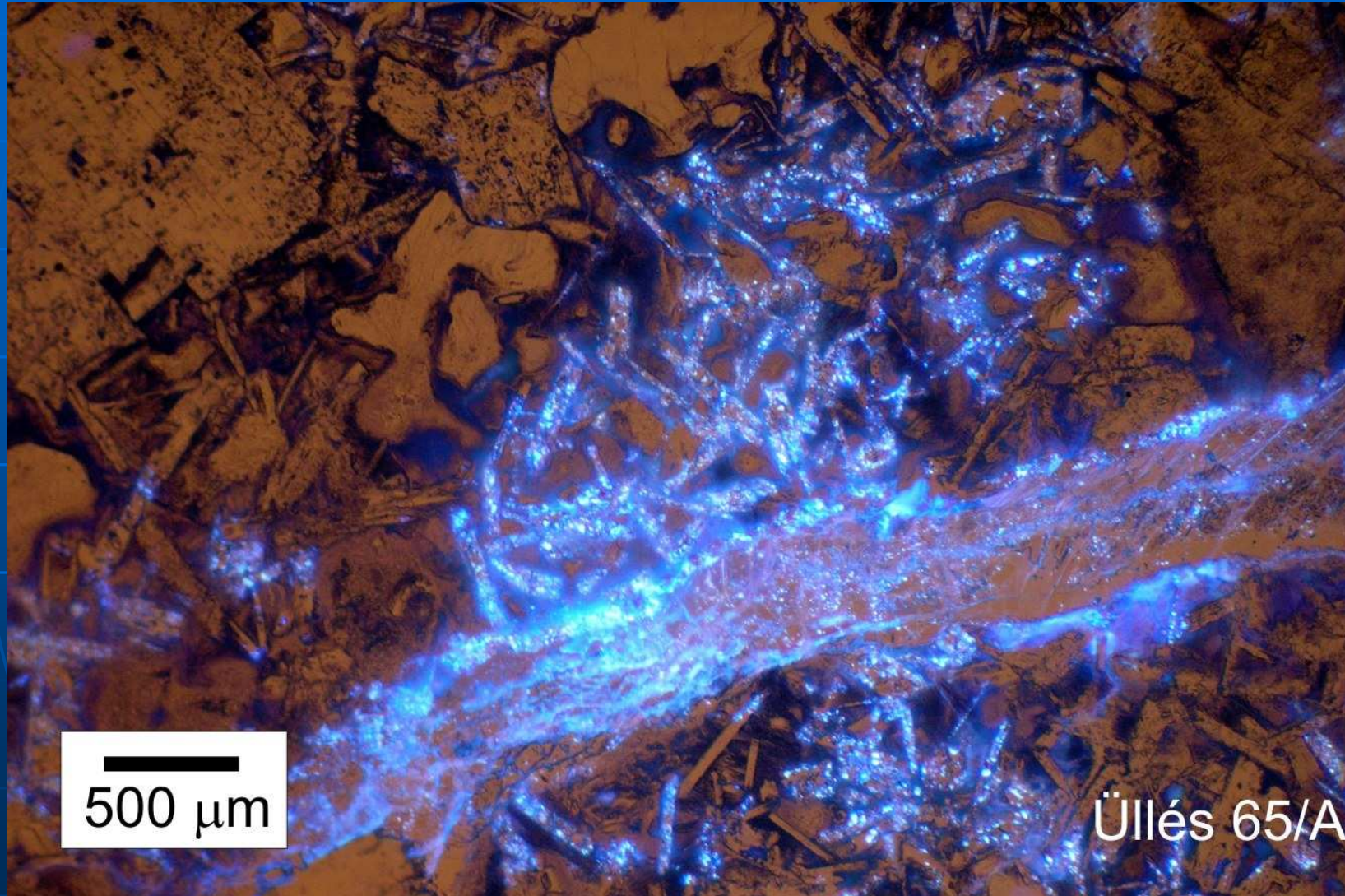
Schubert et al.
(2007) Goldstein és Reynolds
(1994)

Fractured basaltic wall rock

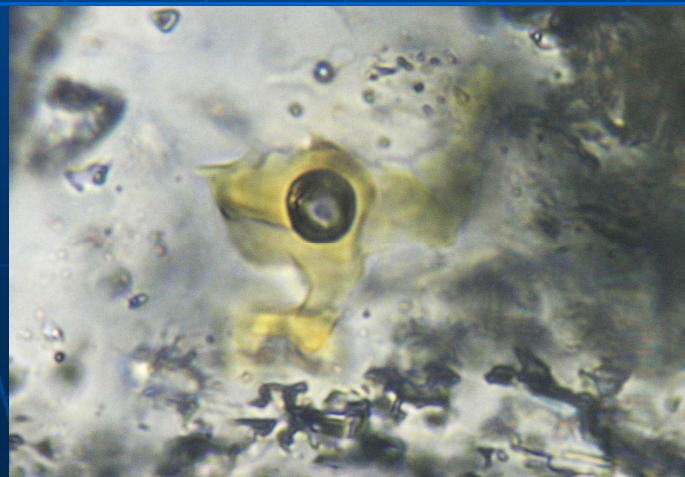
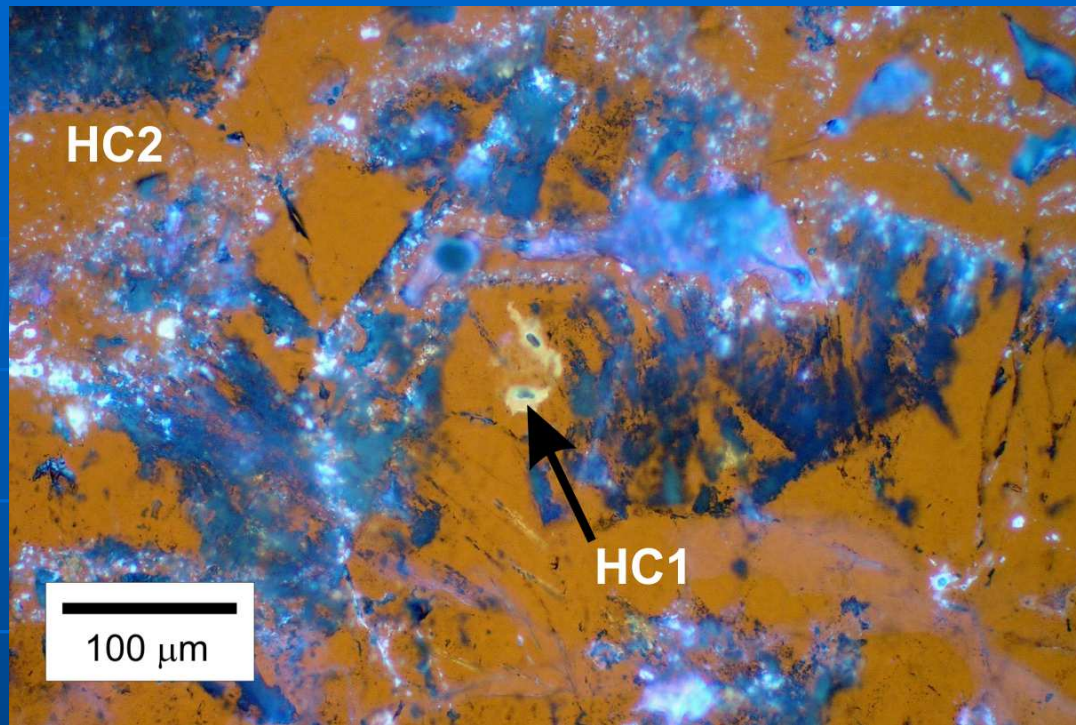
Triple-porosity system (pores+vesicles+fractures)



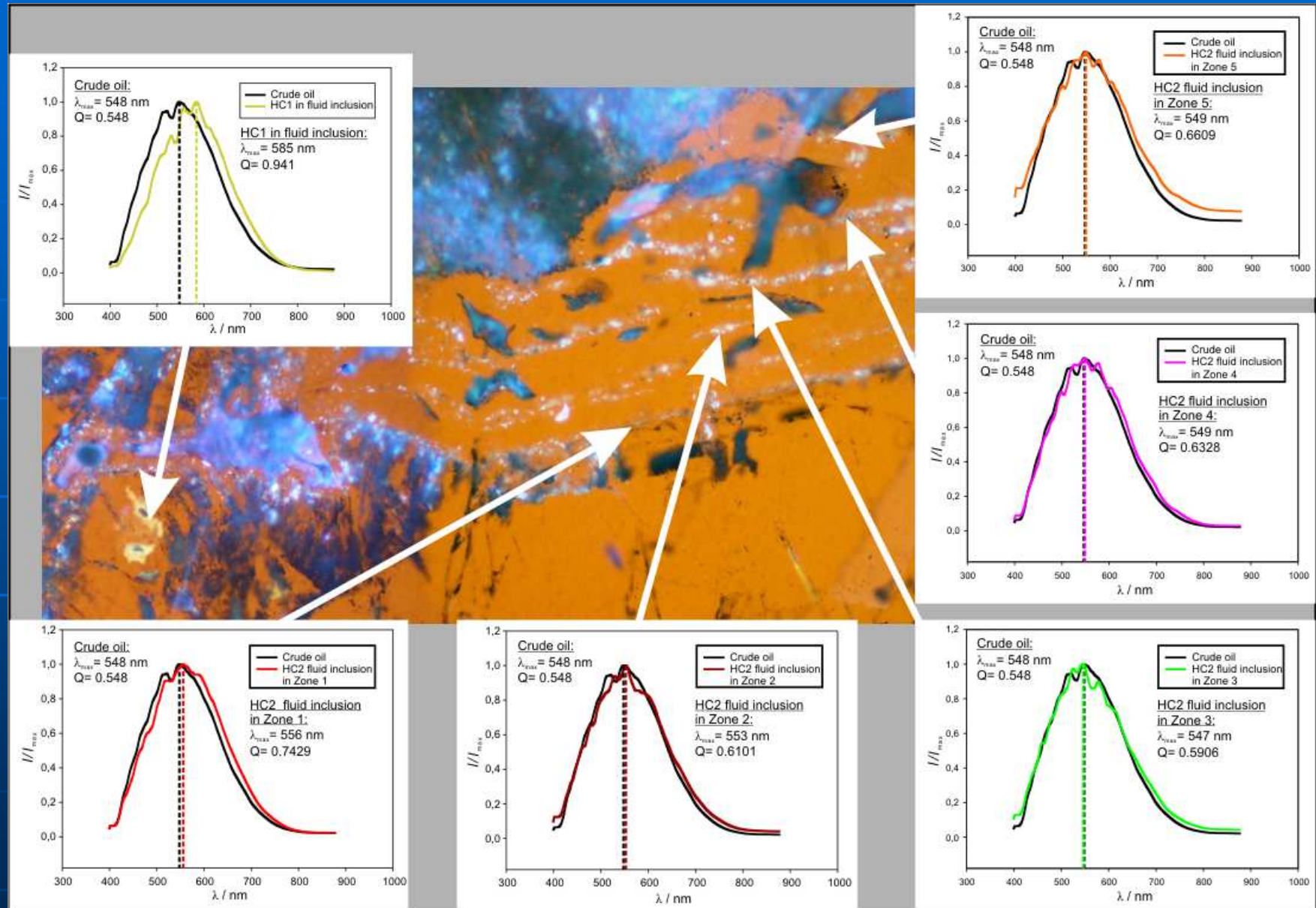
Petroleum inclusions proving the fluid migration along fractures as well as through the wall rock



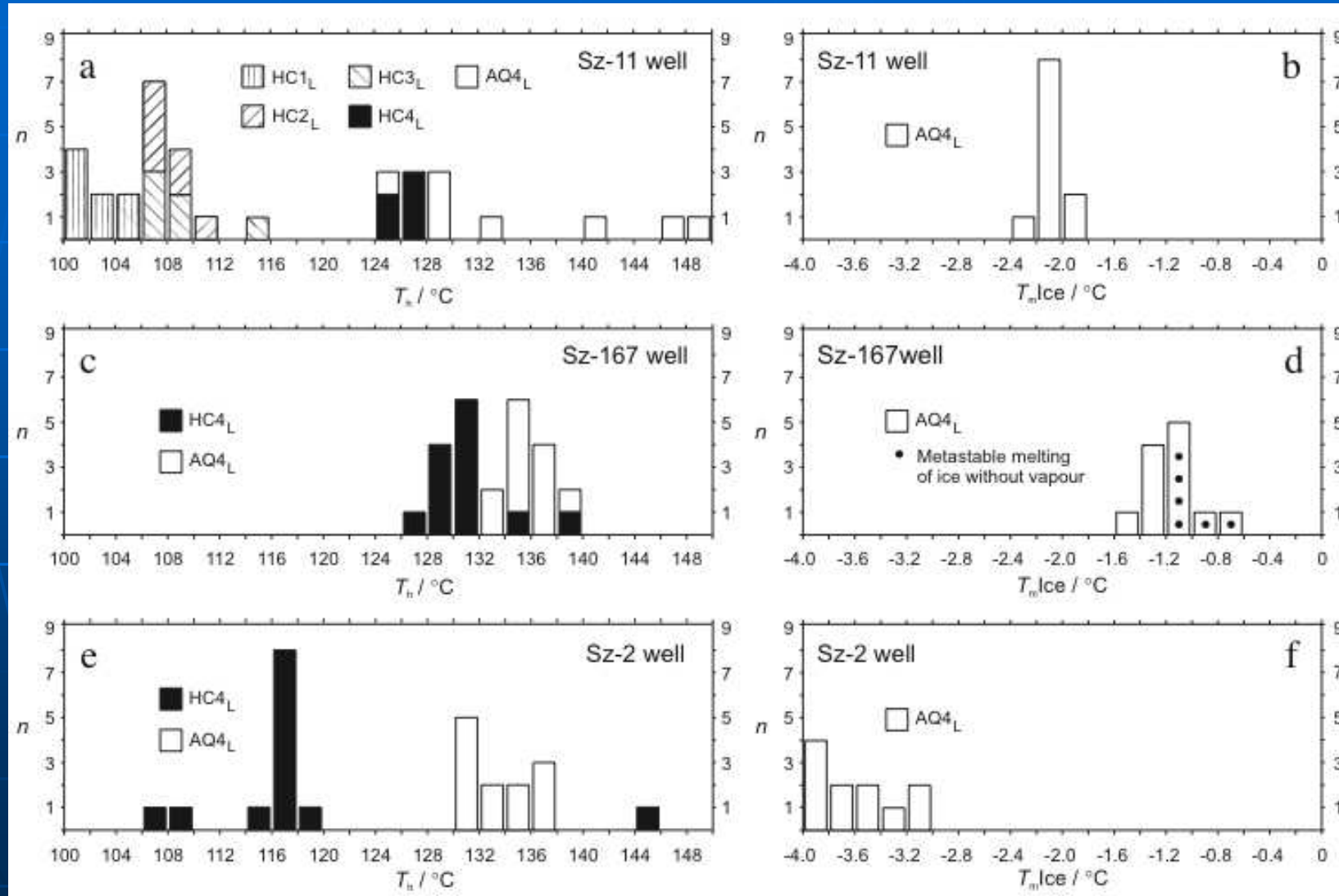
Timing and migration properties of the hydrocarbon fluids



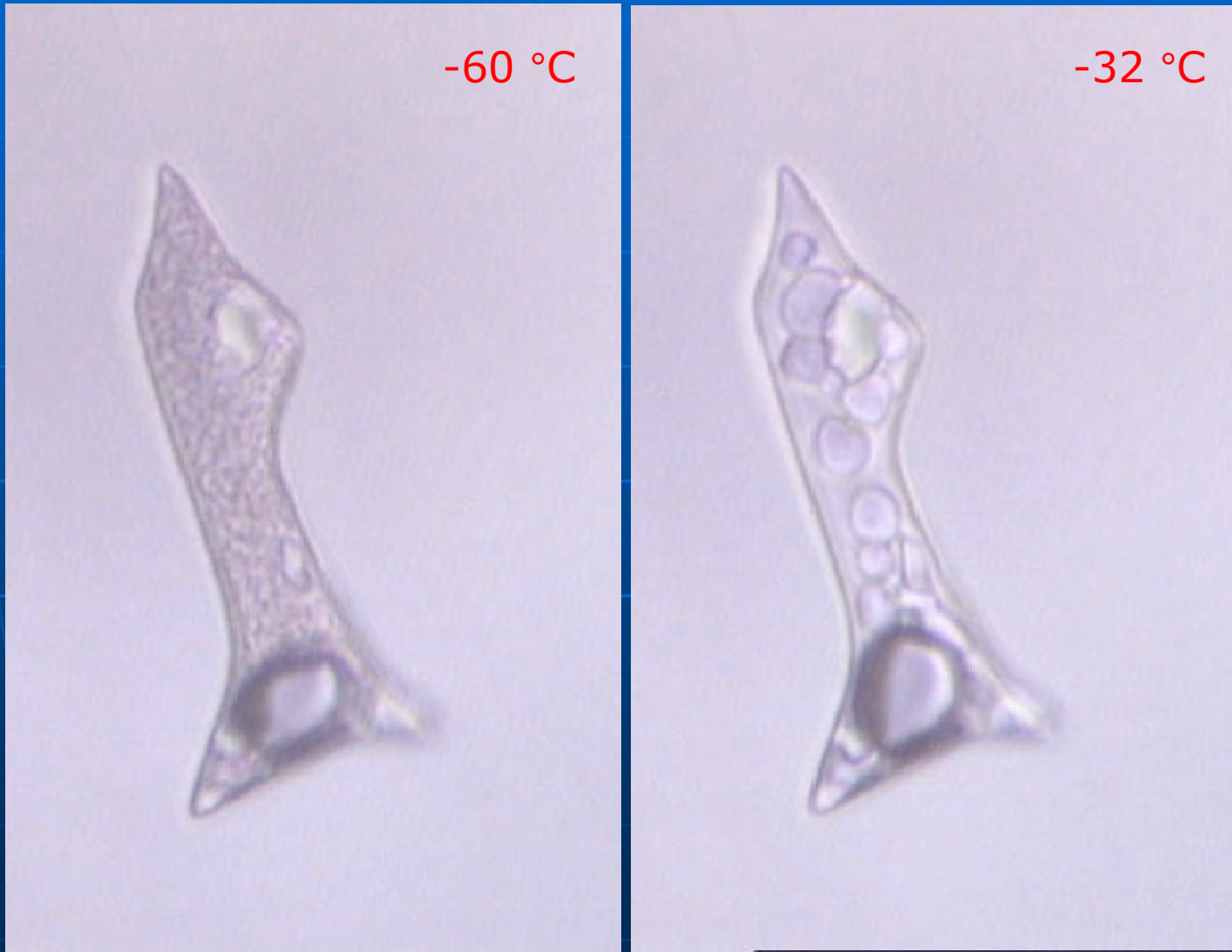
Characterization of the migrated hydrocarbon fluids



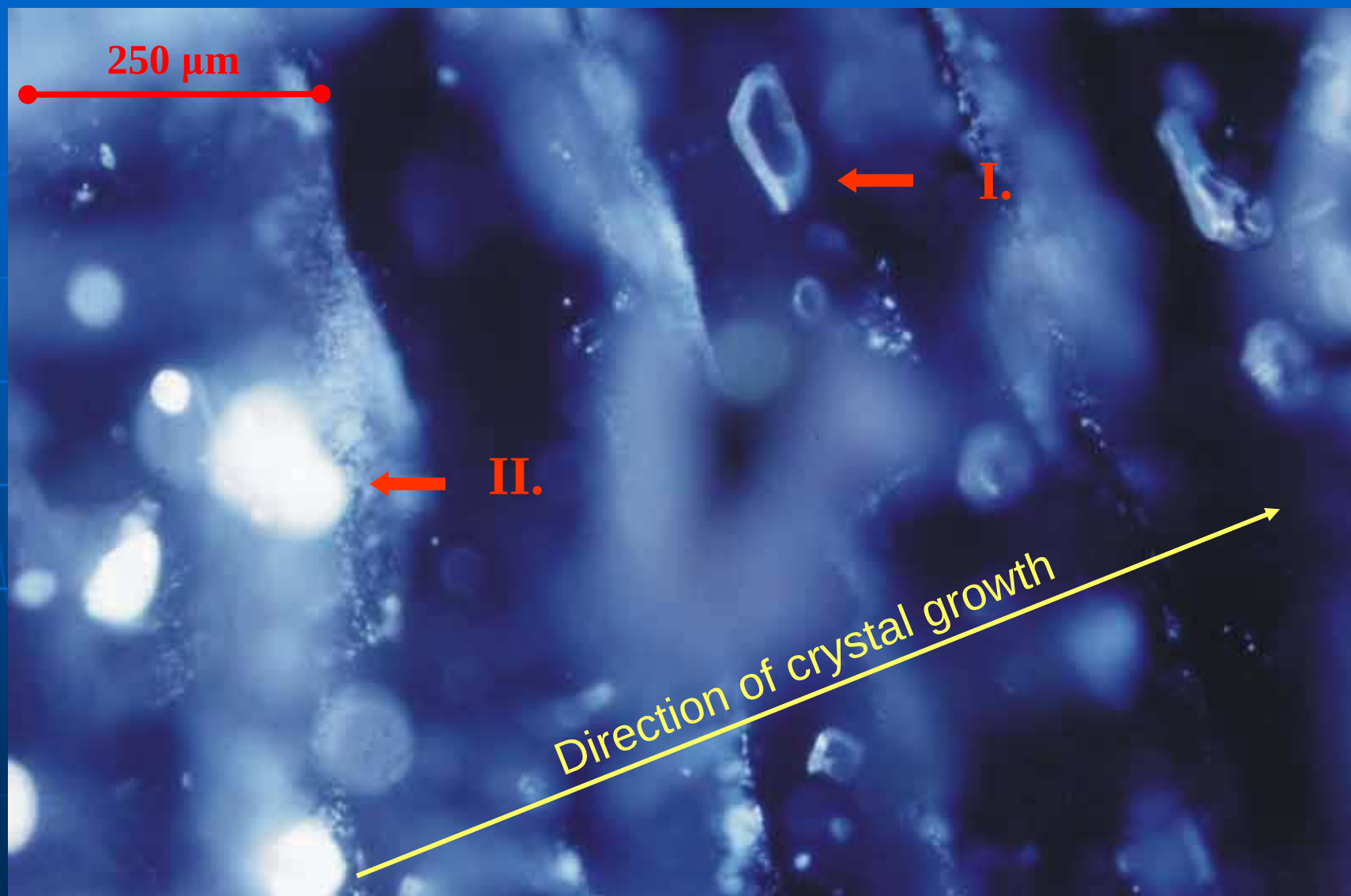
Histograms on temperatures of phase changes measured during heating-cooling of fluid inclusions



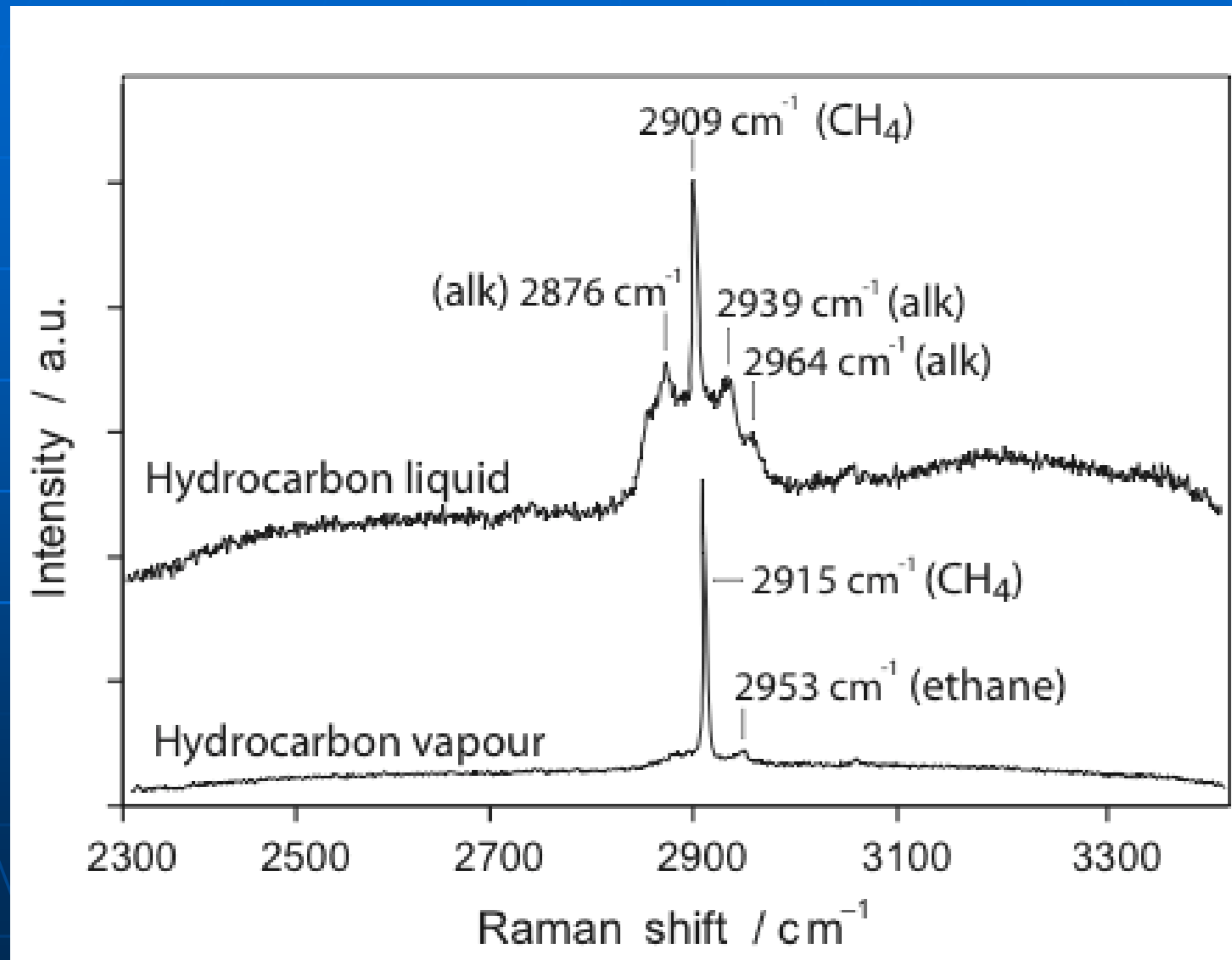
Determination of the salinity of the migrated fluid



Change in fluid properties during fracture cementation

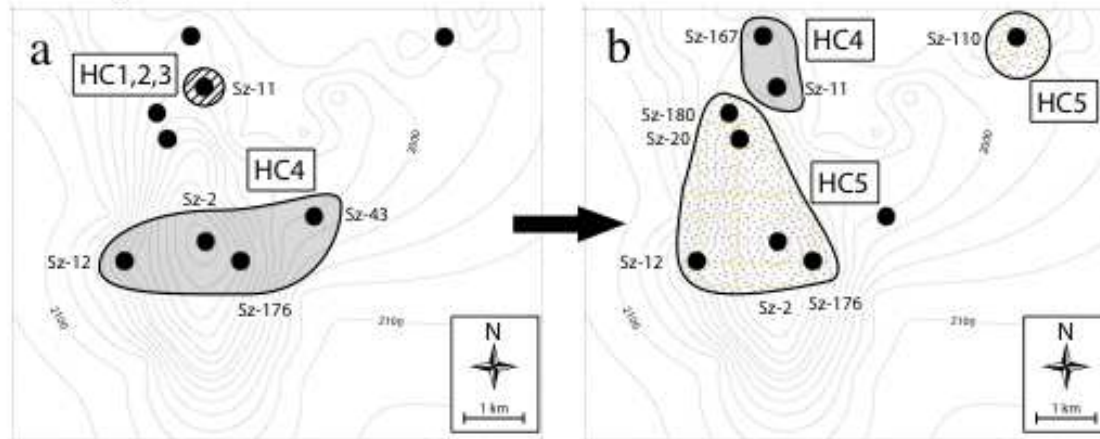


Raman spectra of the liquid and vapour phases of a petroleum inclusion

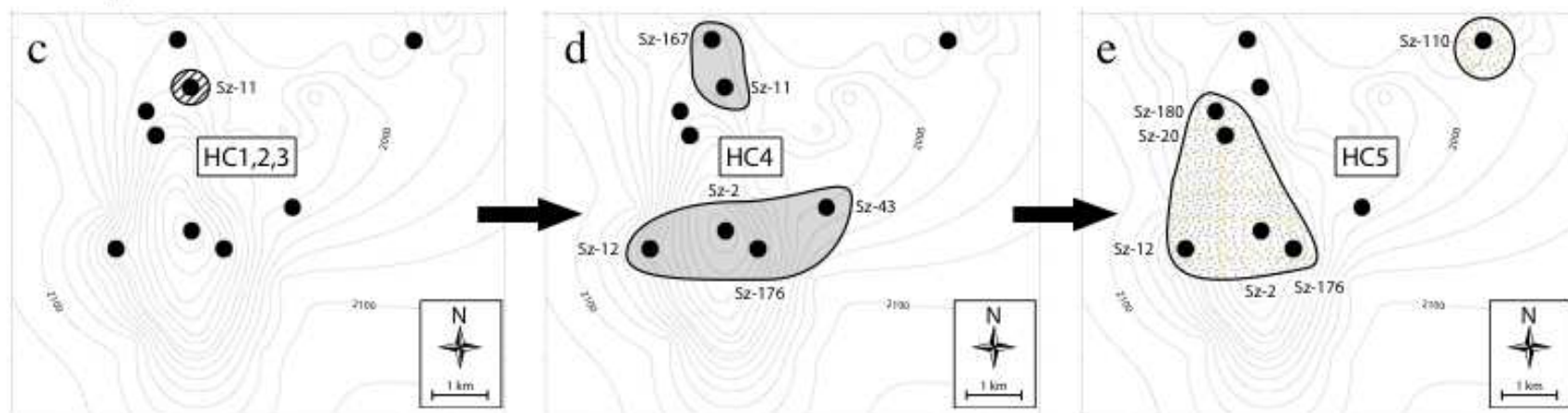


Reconstructed paleofluid evolution scenarios of a buried basement high, E Hungary

Timing scenario 1



Timing scenario 2



Thank you for your attention!