## NEW DATA ON THE POSTVOLCANIC MINERALIZATION OF THE GODERDZI SUITE PETRIFIED WOOD

## Mirian Makadze

e-mail: Miriani.makadze233@ens.tsu.edu.ge

Department of Geology, Faculty of Exact and Natural Sciences, Iv.Javakhishvili Tbilisi State university 13, University st., Tbilisi, Georgia, 0186

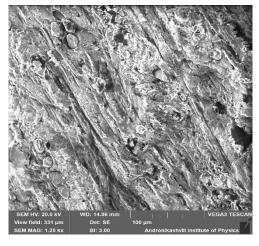
The Goderdzi Pass petrified wood has long attracted the attention of researchers (the study began as early as the 1800s) because of its paleobotanical, paleoclimatic and paleogeographical significance.

Numerous studies have been carried out to determine the fossil flora, but it has also been discovered that the issue has not yet been fully studied. This is evidenced by our discovery of new species of fossil flora in the Goderdzi suite tuffs in last years and this discovery has once again confirmed that Early Miocene-

Lower Pliocene Goderdzi fossil flora are subtropical nature [1].

As for the mineralogical research of fossil flora (fossilized trees), this issue has not been completely studied by the researchers.

One of the main goals of our field and laboratory research is to study the fossil flora in this point of view. The petrified wood samples were studied using various research methods (SEM, XRD, XRF) and polarizing microscope was used to study the thin sections of the specimens. The study of samples by these various methods allowed us to determine the features of hydrothermal mineralization.



Pic. 1. SEM micro photo of petrified wood

## References

[1] M. Makadze, B. Tutberidze, M. Akhalkatsishvili, N. Kobakhidze, D. Makadze "New Species of the Fossil Flora in the Tuffs of the Goderdzi Suite (Goderdzi Pass Area)" BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES, vol. 13, no. 3, 2019