A MODEL OF MERAPI VOLCANO SUBSURFACE STRUCTURE USING SPECTRAL ANALYSIS OF SURFACE WAVE (SASW) METHOD

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Abstract

The objective of this final project is the model of subsurface structure of Merapi volcano. To get the model we used Spectral Analysis of Surface Wave (SASW) method where the source is far tectonic wave of Merapi Volcano. This wave was done to get dispersion curve and then it was inversed to get the profile of shear wave velocity. From it we know that shear wave velocity increase as depth increase. From this result we know that Merapi volcano subsurface between Deles and Plawangan station consist of dry sand and basaltic rock.

Key note: Far tectonic wave, SASW method, dispersion curve, shear wave velocity, dry sand and basaltic rock.