

Geowissenschaftliches Kolloquium

Electromagnetic imaging of subduction zone volcanism, with an emphasis on the Latin American margins

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Electromagnetic deep sounding is one of the methods of choice to image fluids and magma reservoirs in subduction settings. Recent developments like large array measurements and 3-D inversion have greatly enhanced resolution capabilities up to 100 km depth and thus include the assumed source regions of volcanic processes. Several examples will be shown from the North, Central and South American continental margins, in particular.



Heinrich Brasse obtained his PhD at the Technical University of Berlin with a magnetotelluric (MT) study on deep aquifers of the Eastern Sahara. Since 1994, his focus at FU Berlin encompasses detection and imaging fluids and zones of partial melts in the active volcanic regions of South and Central America.

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