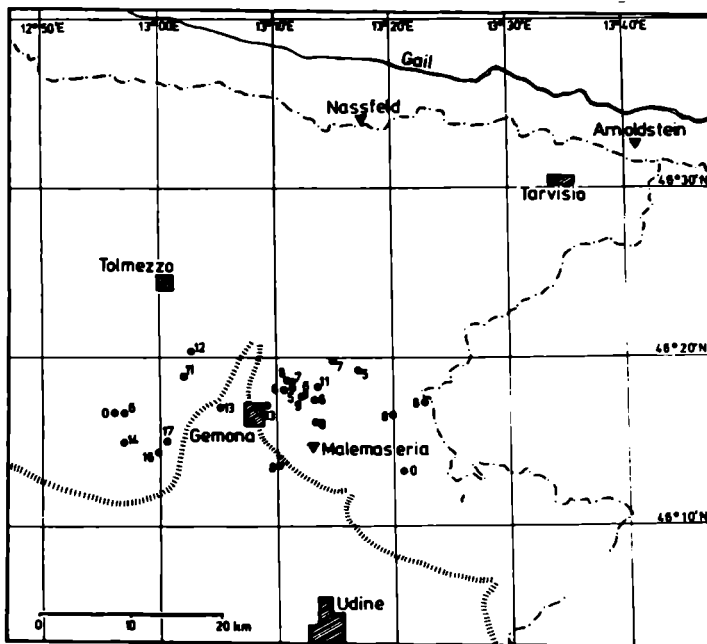


Schmedes, E., H. Gebrande and H. Miller, Inst. für Allg. und Angew. Geophysik und Geophys. Obs., Theresienstr.41, D-8 München.

Some Results of Aftershock Investigations of the Friuli Earthquake of May 6th, 1976.

Aftershocks of the Friuli earthquake were recorded during the period of May 8th to June 14th 1976 by up to four selftriggering three component seismic stations which have been installed in addition to the Italian and Austrian seismic networks. A marked high value of 1.9 for the v_p/v_s ratio was found within and surrounding the epicentral area. Origin times and hypocenters for about 25 aftershocks were calculated (see figure). It turned out that focal depths calculated with the standard value of $v_p/v_s = 1.72$ are too large as opposed to focal depths calculated with the true value of 1.9.

Recently a new crustal model for the Eschenlohe SE profile crossing the Eastern and Southern Alps had been determined from refraction seismic measurements. To check the validity of this model, theoretical traveltime curves were calculated for some selected aftershocks with different focal depth and compared with observations. Thus the Eschenlohe SE profile can be reversed and crustal structure can be determined still more accurately.



Outline map showing location of stations and epicenters. Triangles: seismic stations, closed circles: epicenters. Numbers indicate focal depth.