

	A) SEISMIC REFRACTION TOMOGRAPHY	B) H/V CONTOURING	
Main differences	Colors indicate Vs or Vp values, from which you can infer the main seismic reflector geometries.	be a constraint of the set of the	Colors
Hardware tools (Preferred instrumental configuration)	SoilSpy (multichannel acquisition system)	Tromino + trigger	
Software tools required to get the final result	A seismic refraction tomography software	 Grilla + HeeVee (dedicated to this aim) OR Grilla + a contouring software (e.g. Surfer, Matlab, Octave, Python similar) 	1) 2)
Maximum investigation depth	¼ of the maximum array aperture (e.g., with 24 geophones at 5 m offset you reach a depth of approx. 28 m)	As deep as 0.1-0.2 Hz (which stand for several hundred meters)	In the In pra Depth interp
Field and office work	You need to set <i>N</i> geophones on the ground and acquire a seismic shot typically for each odd (or even) geophone (approx. $\frac{N}{2}$ shots). Then, you have to pick the first P or S wave breaks in the seismogram (<i>N</i> picks for each $\frac{N}{2}$ shot = $\frac{N^2}{2}$ breaks to pick).	You need to collect a number of H/V curves along the section of interest (the white vertical lines in the figure up here). The spacing between the recordings depends on the resolution you need and the duration of the recordings depends on the depth to reach. Having one (or more) MASW collected with Tromino + trigger even during the H/V acquisition provides more constraints to the results.	You no along (the w betwe
Conclusions	This approach is preferred when one is interested in getting Vs values. Investigation depth is small compared to the other methods. Unless you have a land streamer (and you can use it at the site of interest), this is typically used to investigate rather short (compared to the other approaches) sections in detail.	This approach is preferred when one is interested in mapping the geometry of a seismic reflector and this is the approach reaching the largest depth with the lowest effort.	Using depth invers is not Using much than a recom prelim

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