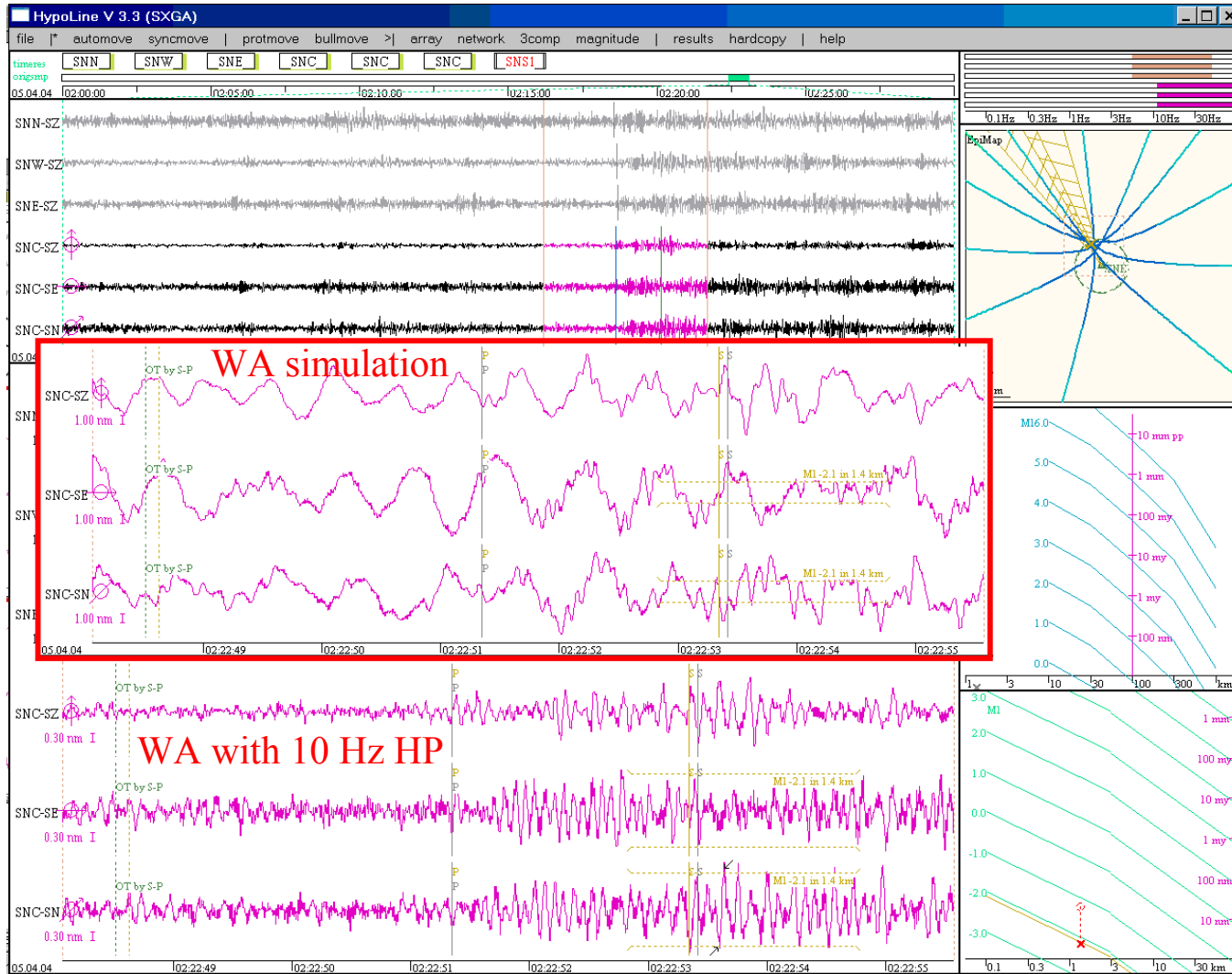


minimum spread

optimum depth

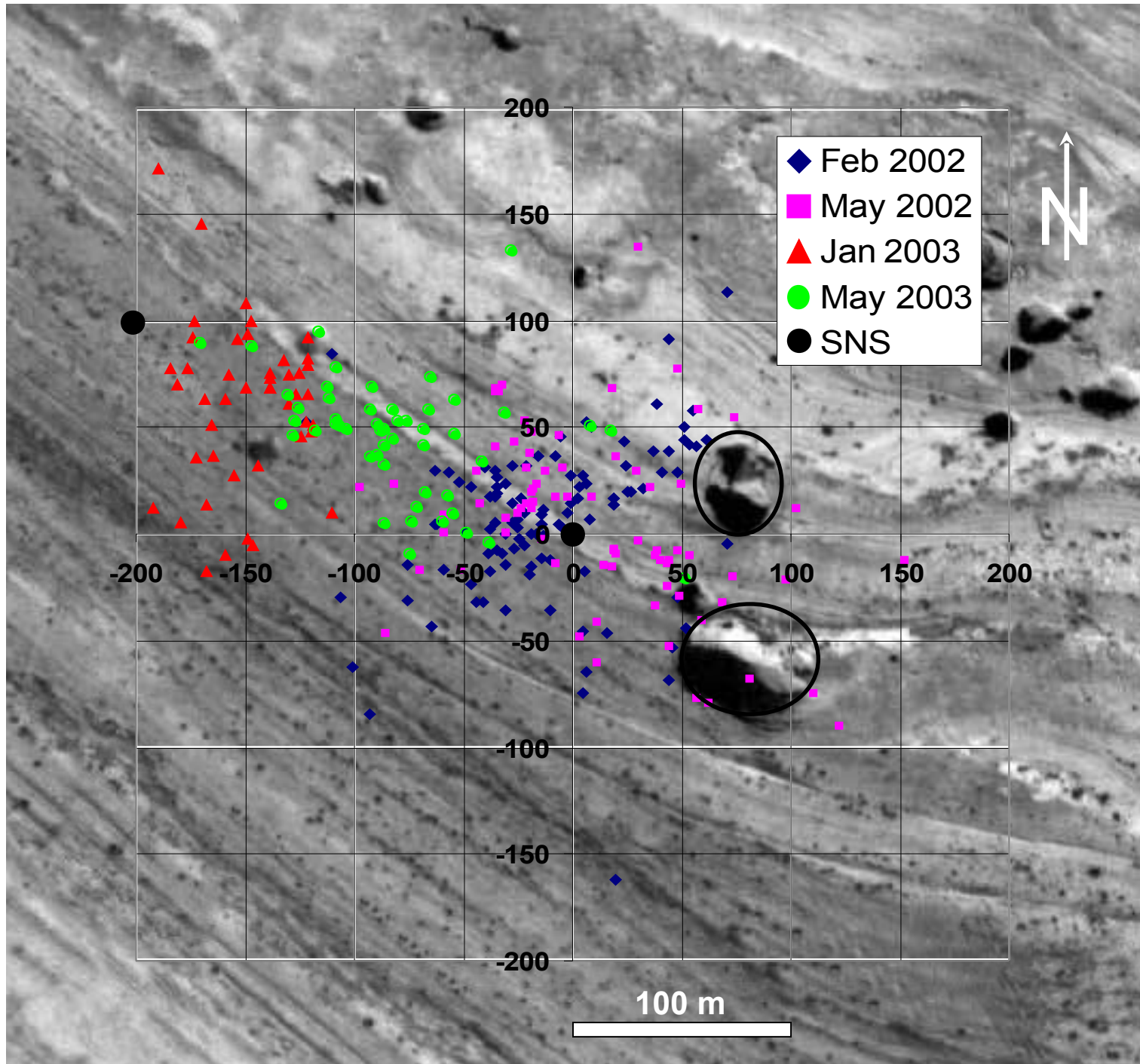
optimum vP



Details: Insufficient SNR of Wood-Anderson Simulation → Apply High Pass



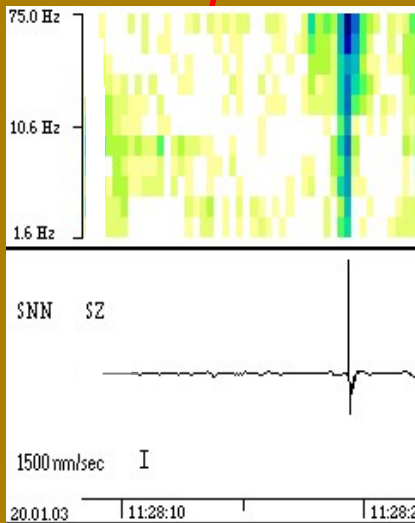
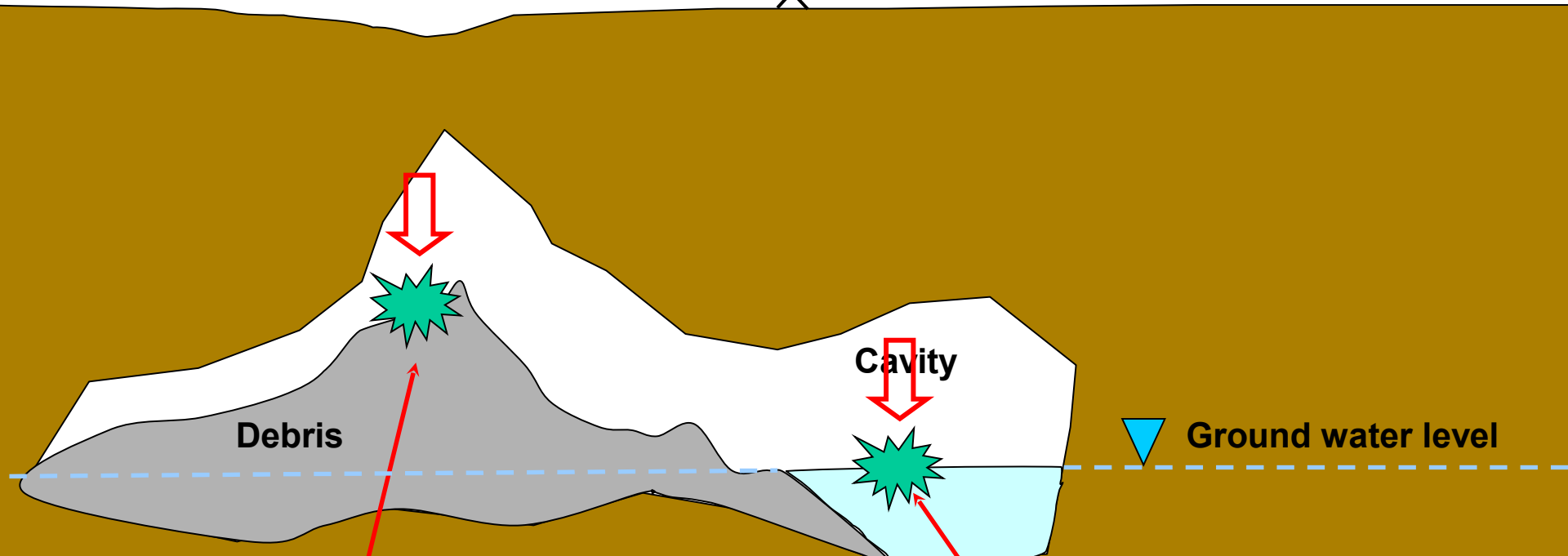
Fig. 6



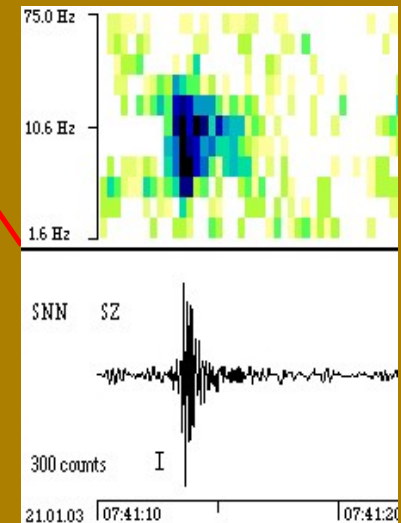
Developing sinkhole



Surface

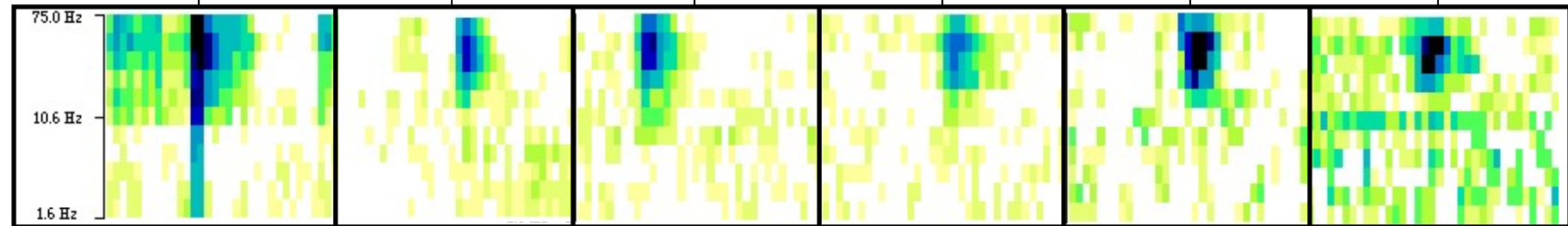


Impact on dry material



Impact at the brine interface

Source



S3C-SZ
18750 nm/sec
I

S3C-SZ
7000 nm/sec
I

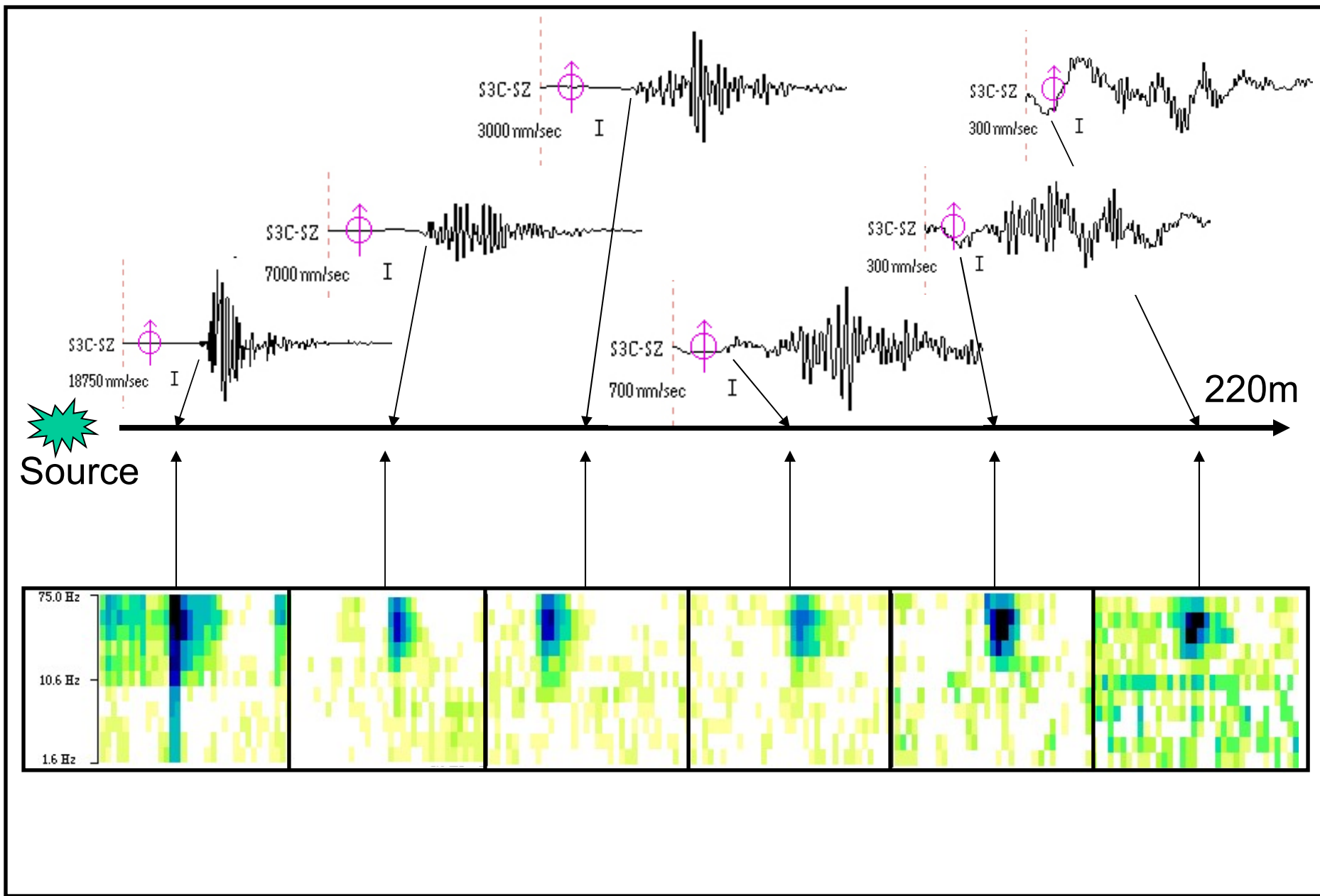
S3C-SZ
3000 nm/sec
I

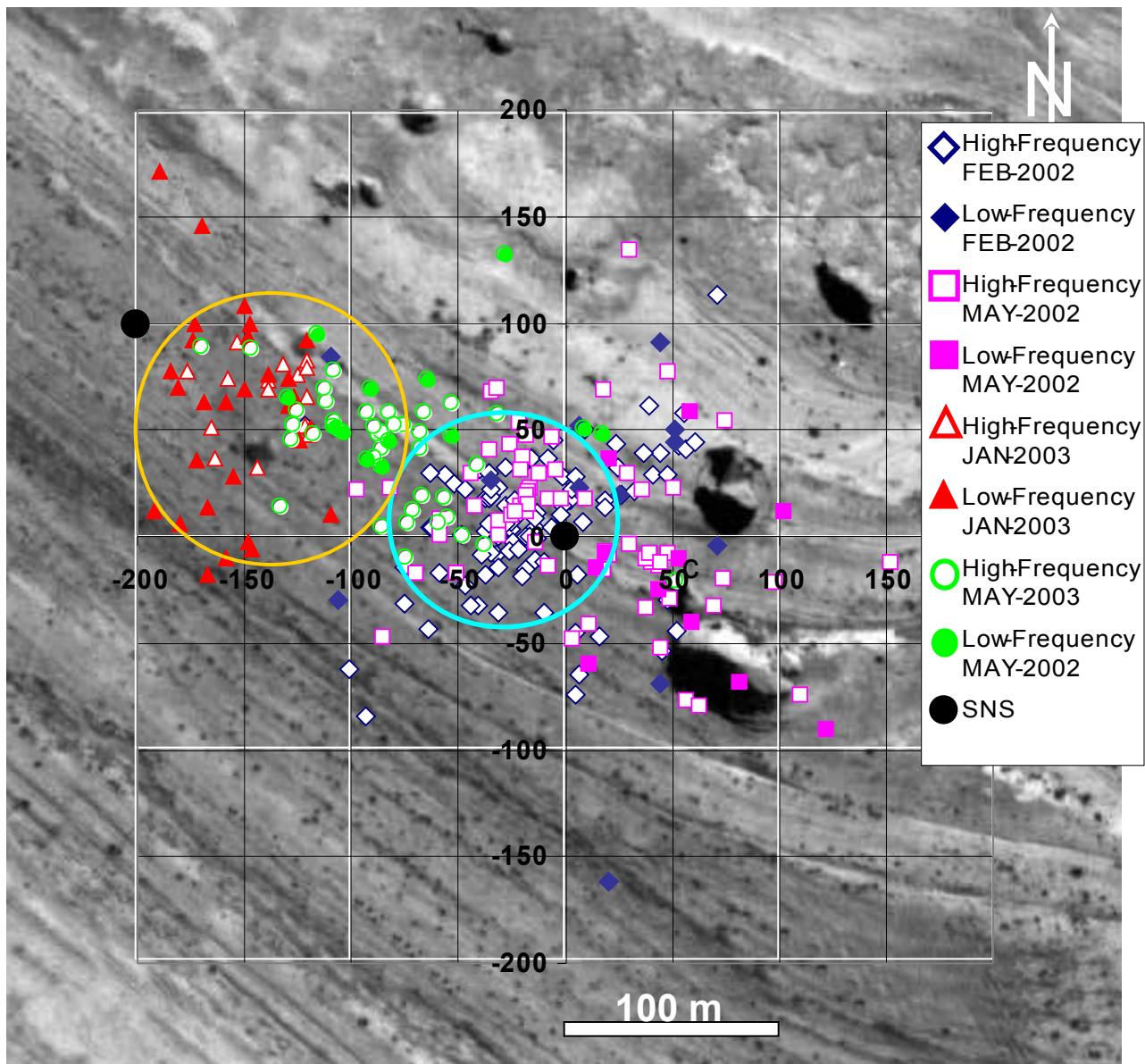
S3C-SZ
700 nm/sec
I

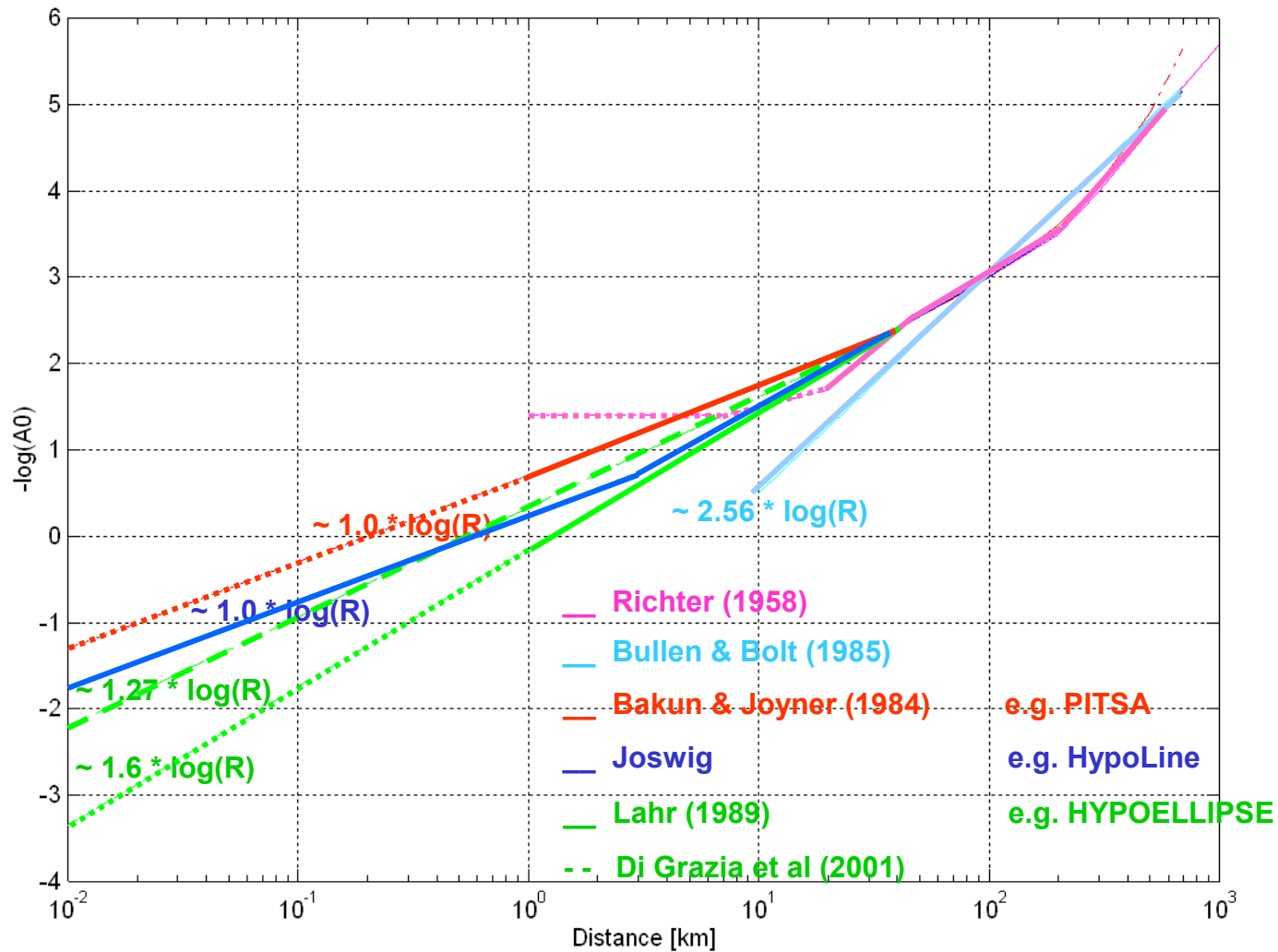
S3C-SZ
300 nm/sec
I

S3C-SZ
300 nm/sec
I

220m

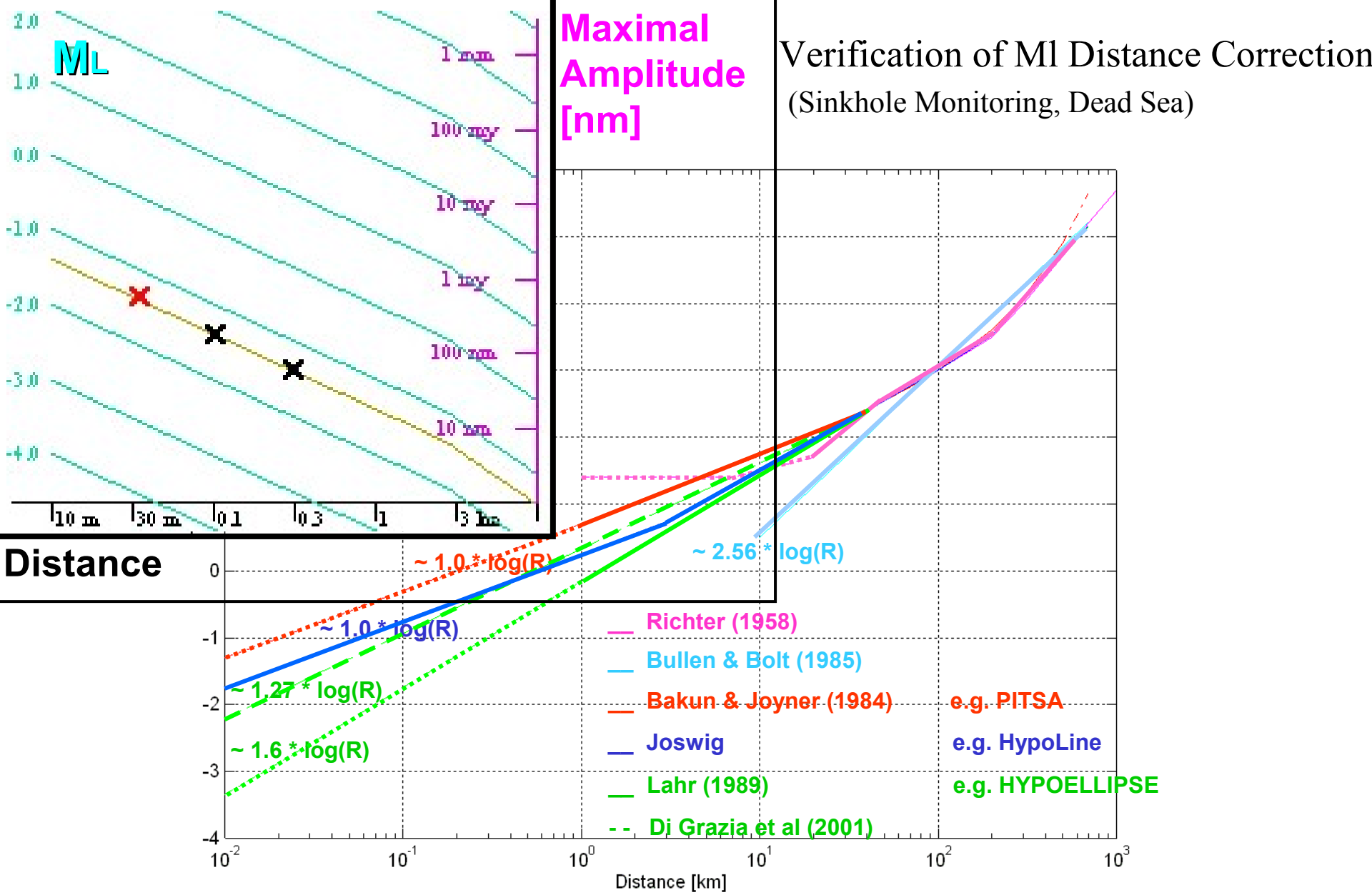






Details: Extend Definition of Ml for Small Distances

Verification of Ml Distance Correction (Sinkhole Monitoring, Dead Sea)



Details: Extend Definition of Ml for Small Distances

	<i>microseismic networks</i>	<i>nanoseismic monitoring</i>	<i>passive seismic</i>
typical application area, completeness magn.	perm. local network 10000 km ² M _L 1.0	temp. fault mapping 100 km ² M _L -1.0	instrumented oil field 1 km ² M _L -3.0
#stations (typical)	30 single 3c	3 SNS arrays	100+ array traces
select analysis segment	STA/LTA & voting	Sonograms & PR	(continuous)
noise forensics	optional	essential	none
Signal-to-Noise Ratio	> +15 dB (5:1)	> 0 dB (1:1)	> -15 dB (1:5)
status of onset phases	clear	questionable	not visible
process solution	pick all ⇒ batch	pick ⇒ live update	automated stack
test/improve solution new run	slide any parameter*	(not applicable)	
solution info	hypo, t ₀ , M _L , <u>M</u>	hypo, t ₀ , M _L	statistics
improve by master event	possible	possible	(not applicable)
identify effects of single parameter* to joint solution	indirect by time residuals to LMS solution	fully resolved in location domain by jack-knifing	(not available)

* phase picks, forced depth, layer model