

7/19/05:

8 realizations of SVP in FAF05 area were generated today. Yoyo control was implemented in the 2 scenarios in file sound_faf05_jul19_01_day0_0.5_sec1.mat. Parameters are the same as what were used yesterday. Unfortunately, today many people are using computer monopole, hydrophone and seismics. So, it took much longer to run the optimization code.

Optimal: points=30, threshold=1000 for morning 7/19/05

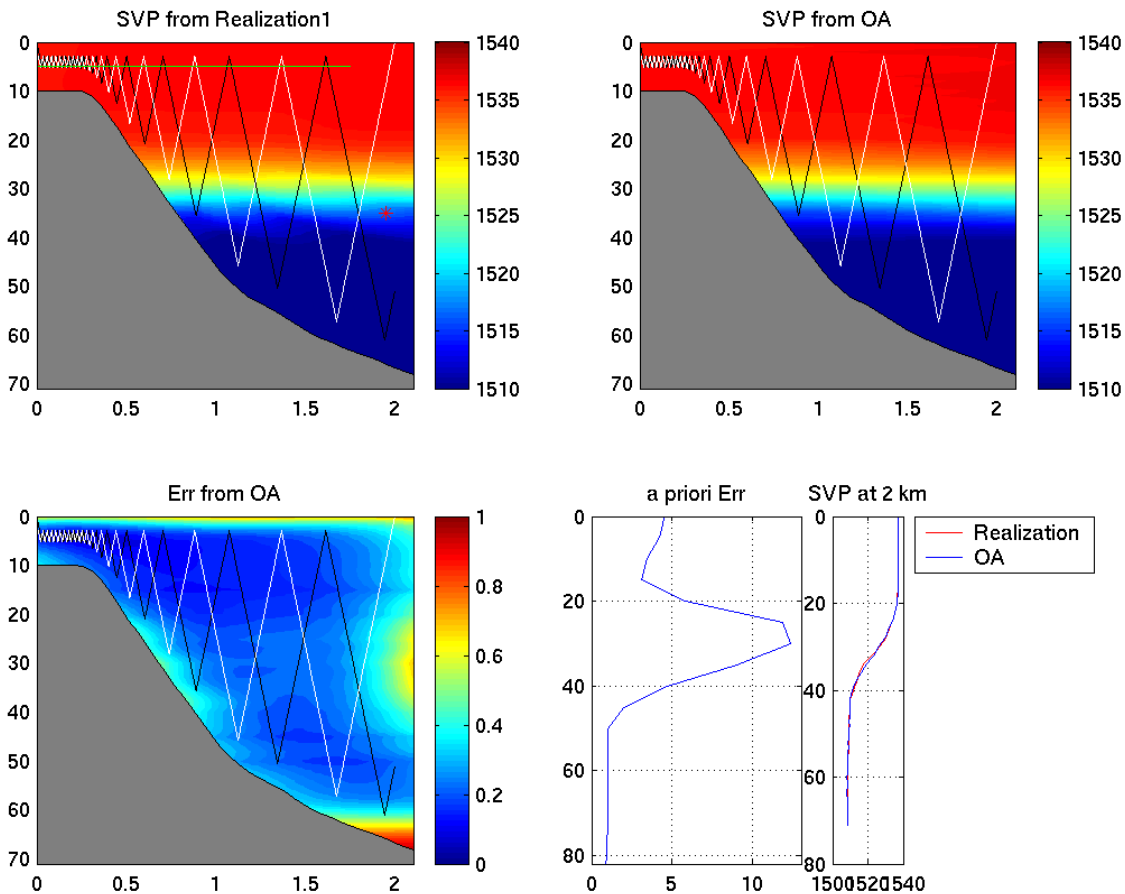


Figure 13: Yoyo control implementation. Morning 7/19/05. sound_faf05_jul19_01_day0_0.5_sec1.mat. Black line is the forward path; White line is the backward path; Red star is the sound source location; Green line is receivers' location. Note that to avoid bottom AUV turns around at 5 m above bottom.

Optimal: points=30, threshold=1000 for afternoon 7/19/05

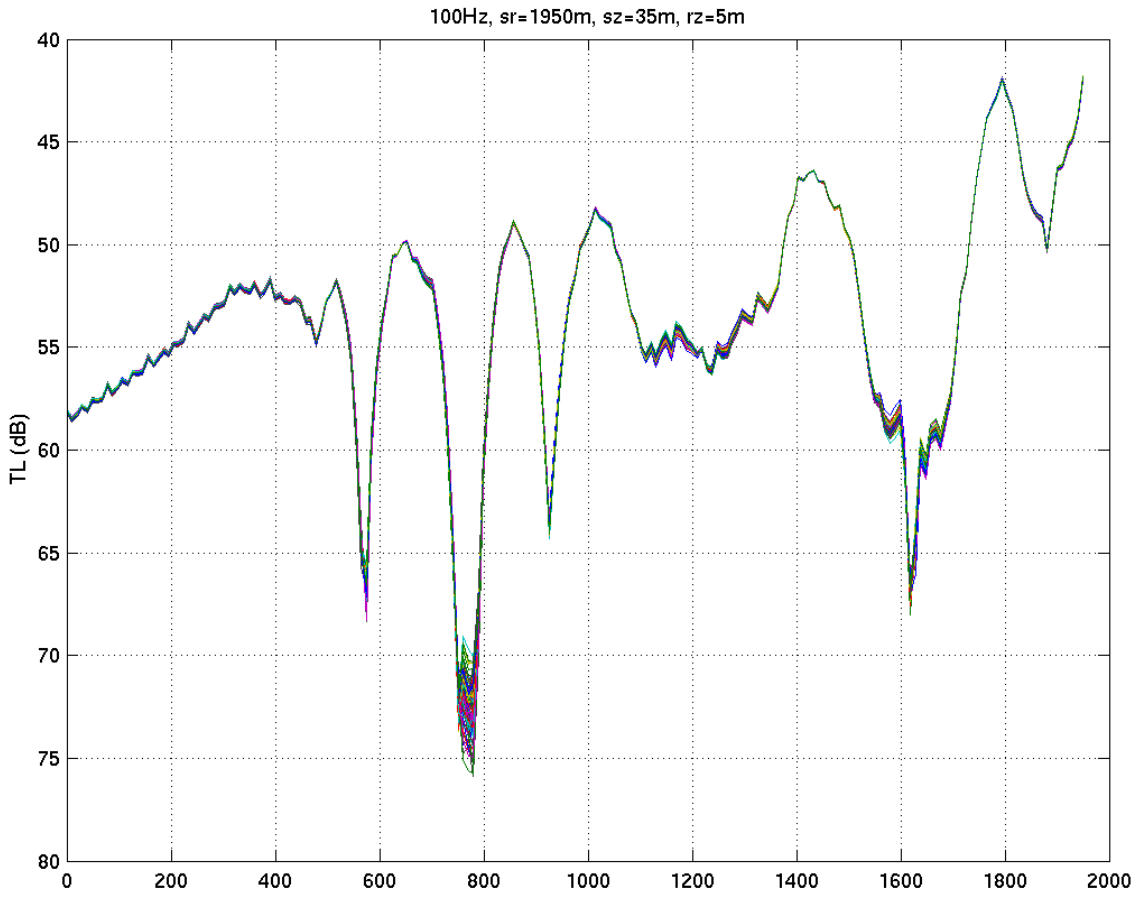


Figure 14: Morning 7/19/05. sound_faf05_jul19_01_day0_0.5_sec1.mat.

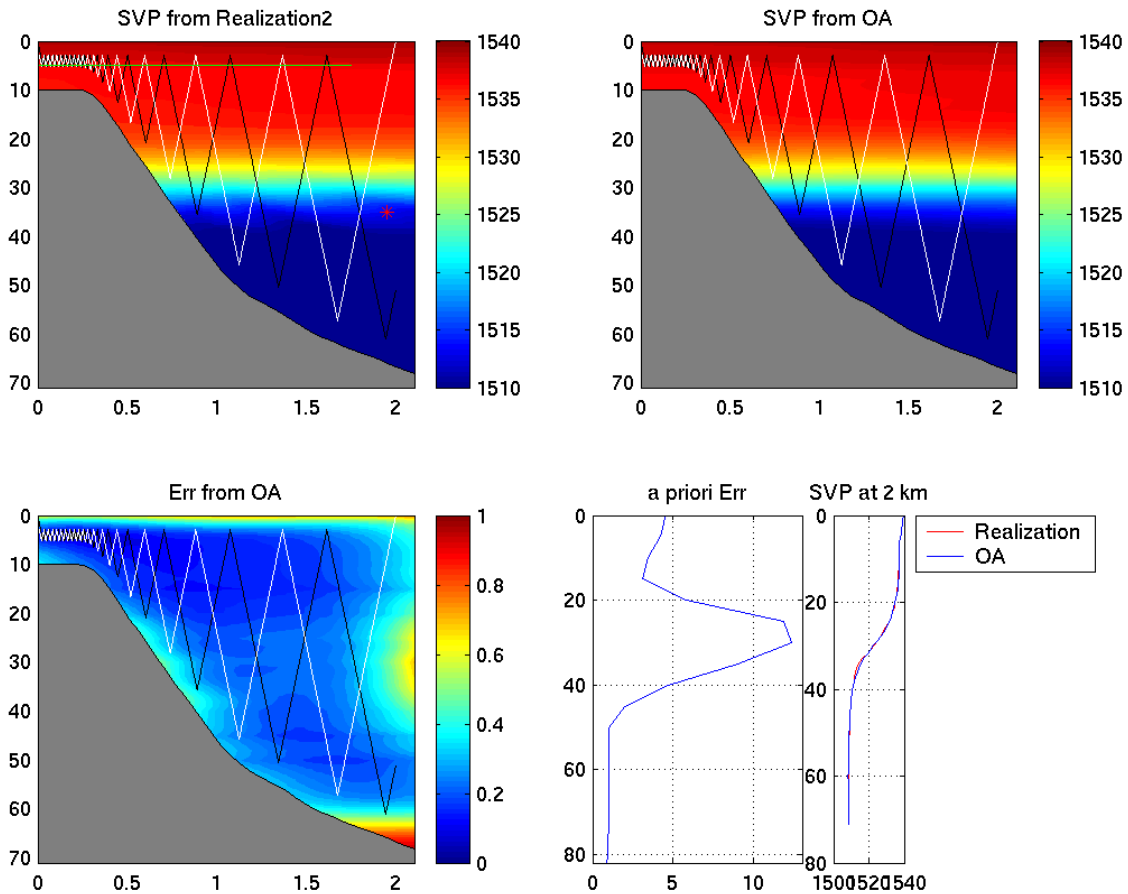


Figure 15: Yoyo control implementation. Afternoon 7/19/05. sound_faf05_jul19_01_day0_0.5_sec1.mat. Black line is the forward path; White line is the backward path; Red star is the sound source location; Green line is receivers' location. Note that to avoid bottom AUV turns around at 5 m above bottom.

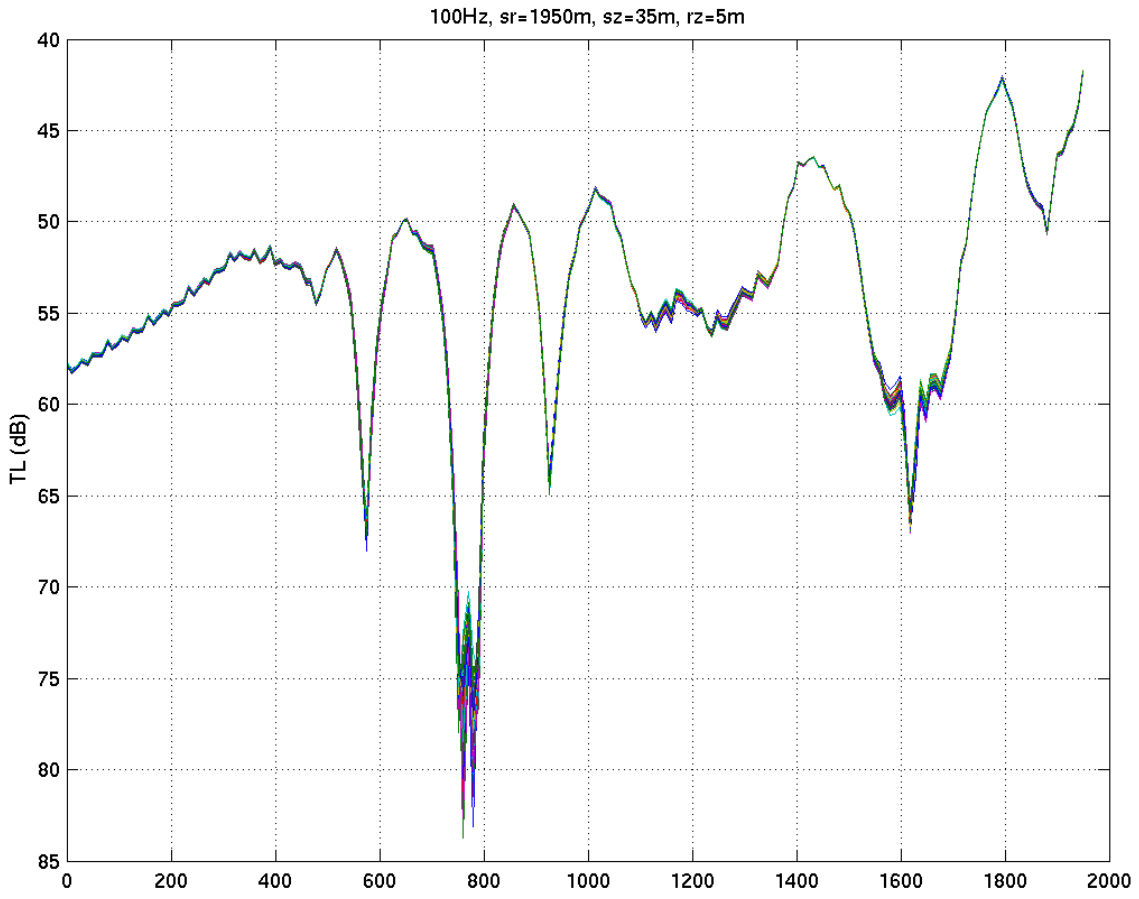


Figure 16: Afternoon 7/19/05. sound_faf05_jul19_01_day0_0.5_sec1.mat.