Mediterranean Marine Science

Vol 22, No 4 (2021)

Special Issue

Acoustic correction factor estimate for compensating vertical diel migration of small pelagics

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doi: 10.12681/mms.25120

Supplementary Data

Mediterranean Marine Science
Indexed in WoS (Web of Science, ISI Thomson) and SCOPUS
The journal is available on line at http://www.medit-mar-sc.net
www.hcmr.gr
DOI: http://doi.org/10.12681/mms25120

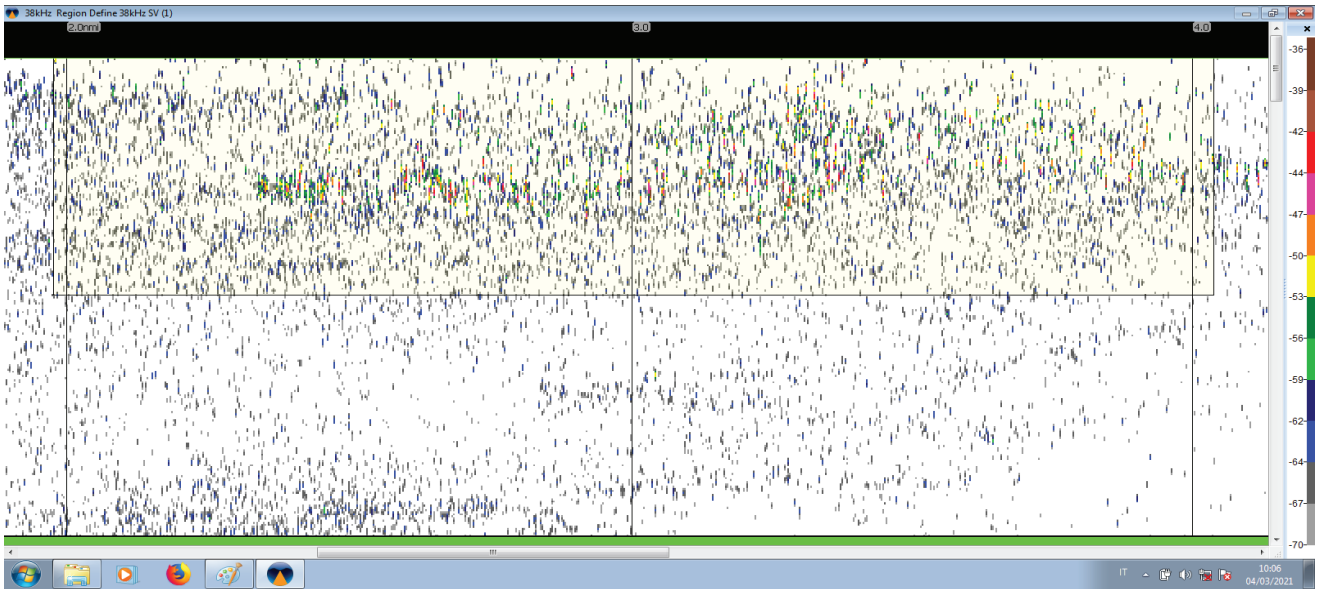
Contribution to the Special Issue: "MEDiterranean International Acoustic Survey (MEDIAS)"

Acoustic correction factor estimate for compensating the vertical diel migration of small pelagic species

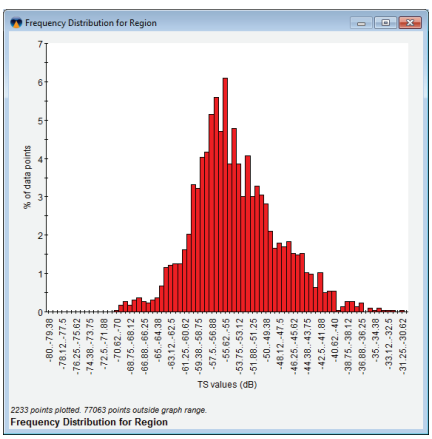
Angelo BONANNO, Marco BARRA, Andrea De FELICE, Marianna GIANNOULAKI, Magdalena IGLESIAS, Iole LEONORI, Ana VENTERO, Salvatore ARONICA, Ilaria BIAGIOTTI, Vjekoslav TIČINA, Giovanni CANDUCI and Simona GENOVESE

Mediterranean Marine Science, 2021, 22/4, Special Issue

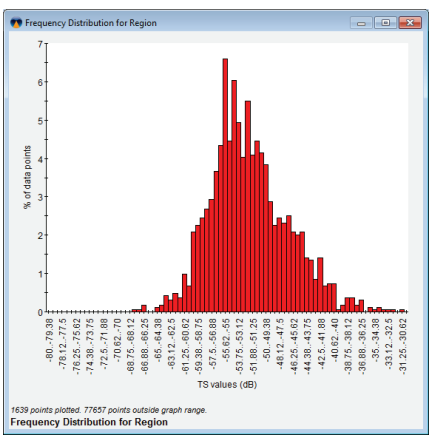
Figure 1S. Scattered targets (fishes and plankton) in the upper part of the water column and frequency distribution of TS values by setting different Sv thresholds (from -60dB to -52dB). As it is possible to observe, the use of higher Sv thresholds gradually reduces the presence of smaller TS values, likely associated to smaller targets.



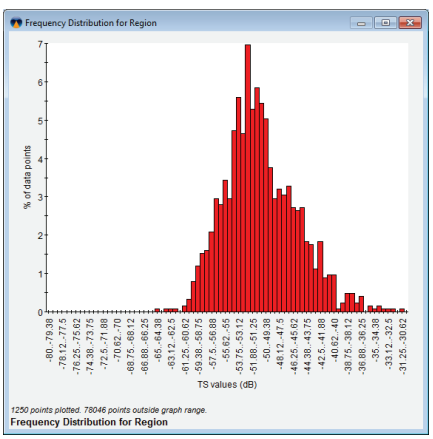
$Sv_{Threshold}$ = -60 dB



$Sv_{Threshold}$ = -58 dB



$Sv_{Threshold}$ = -56 dB



$Sv_{Threshold}$ = -54 dB $Sv_{Threshold}$ = -53 dB $Sv_{Threshold}$ = -52 dB

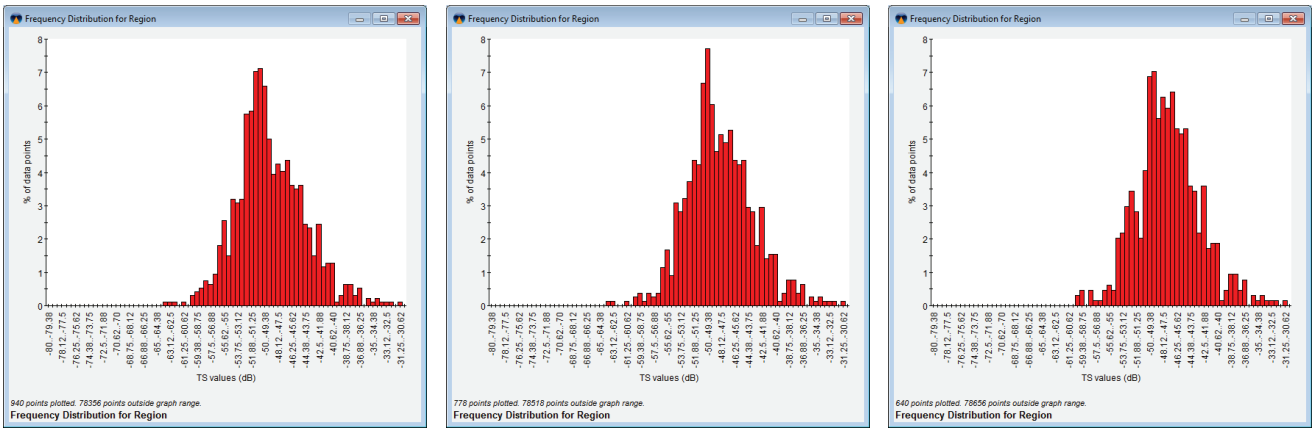
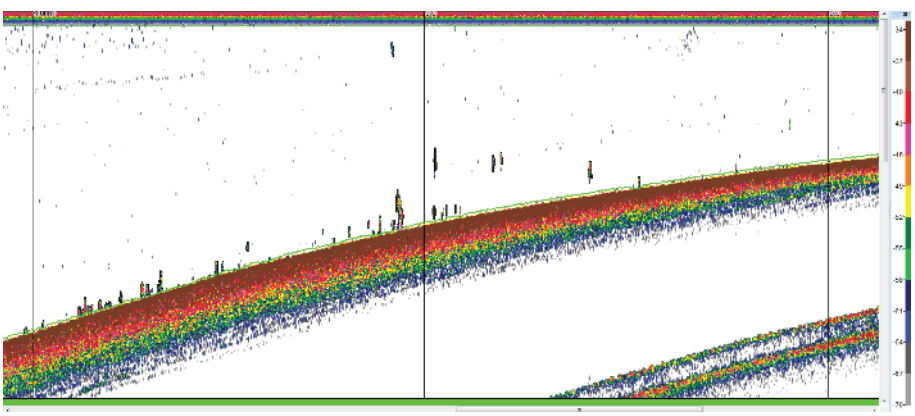


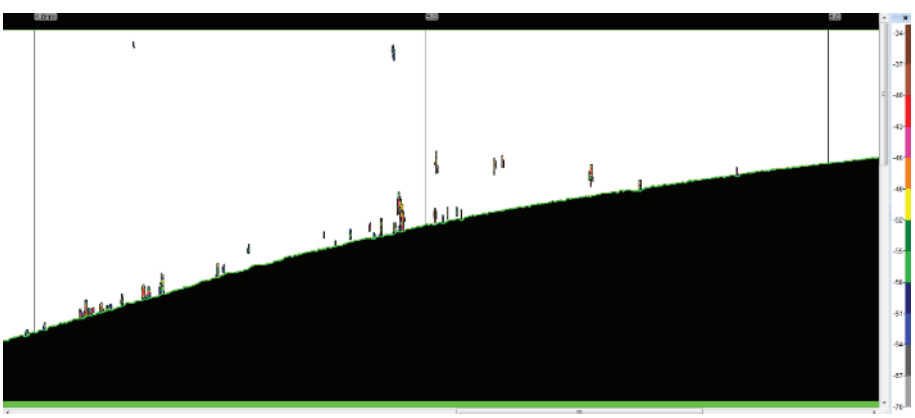
Figure 2S. Acoustic data collected along two transects in the Strait of Sicily.

Transect 38-39 Daytime echogram

$Sv_{threshold}$= -70dB

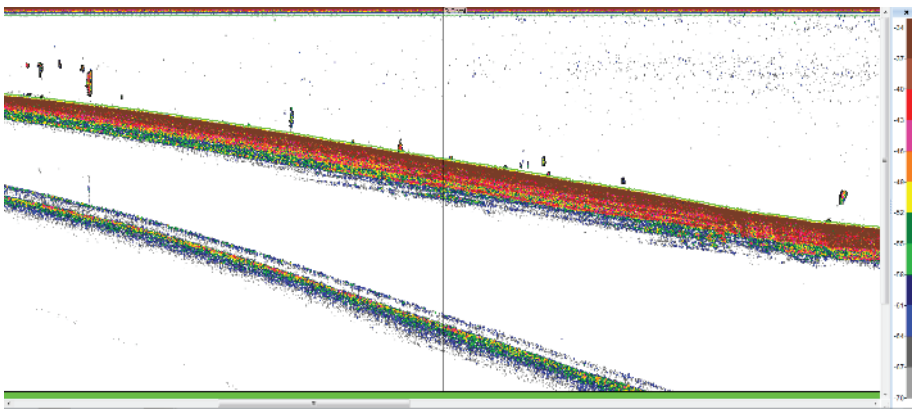


$Sv_{threshold}$= -60dB

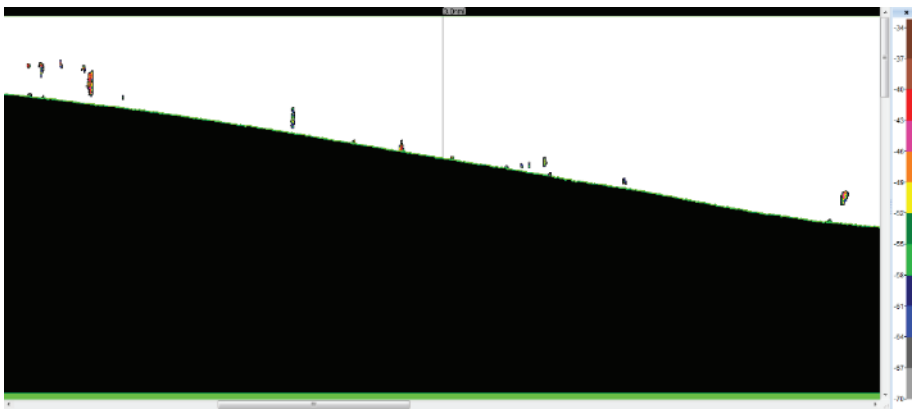


Transect 40-41 Daytime echogram

$Sv_{threshold}$ = -70dB

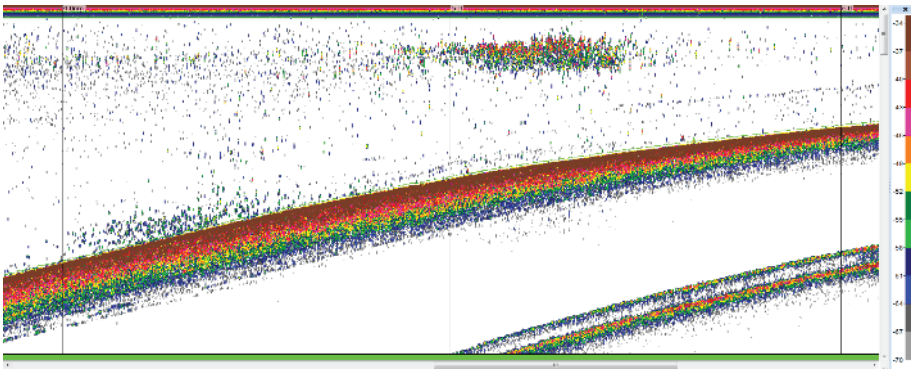


$Sv_{threshold}$ = -60dB

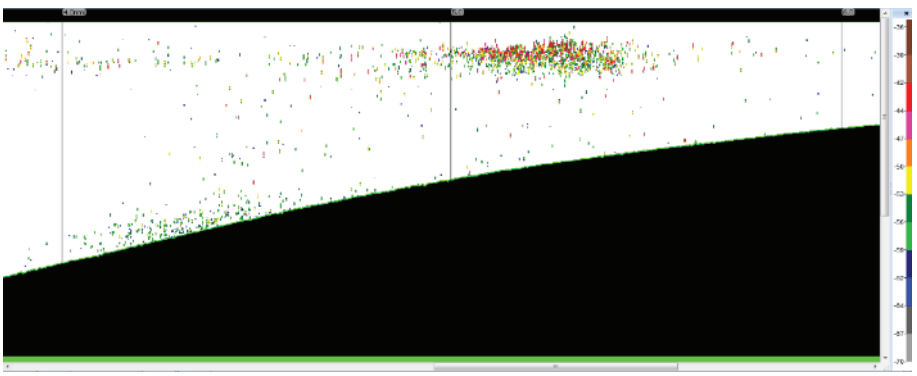


Transect 38-39 Nighttime echogram

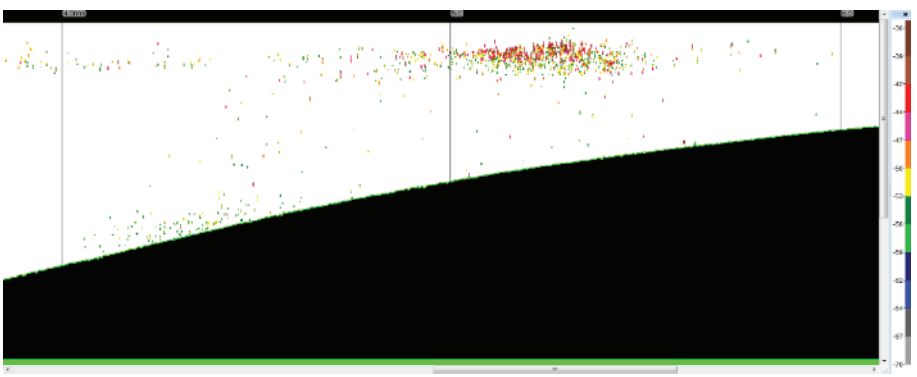
$Sv_{threshold}$ = -70dB



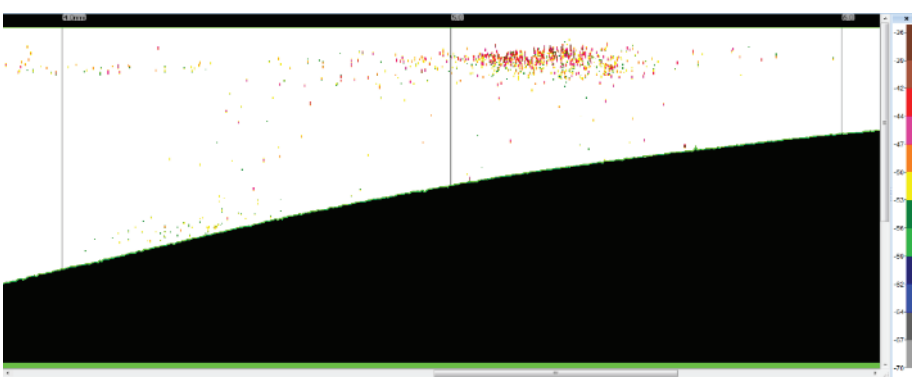
$Sv_{threshold}$ = -60dB



$Sv_{threshold}$ = -56dB

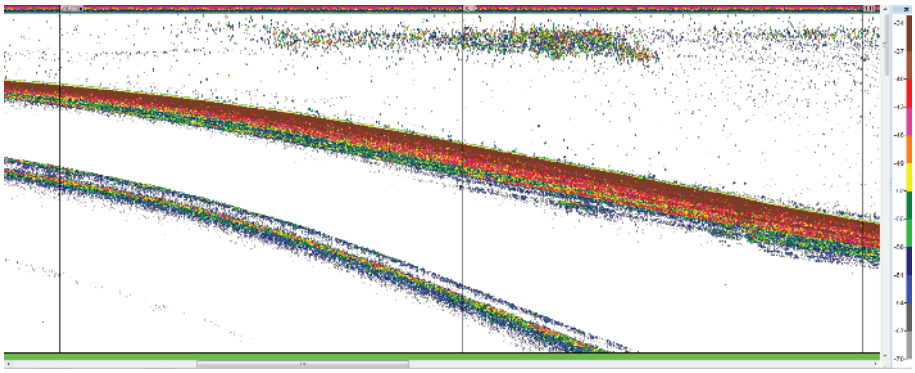


$Sv_{threshold}$ = -54dB

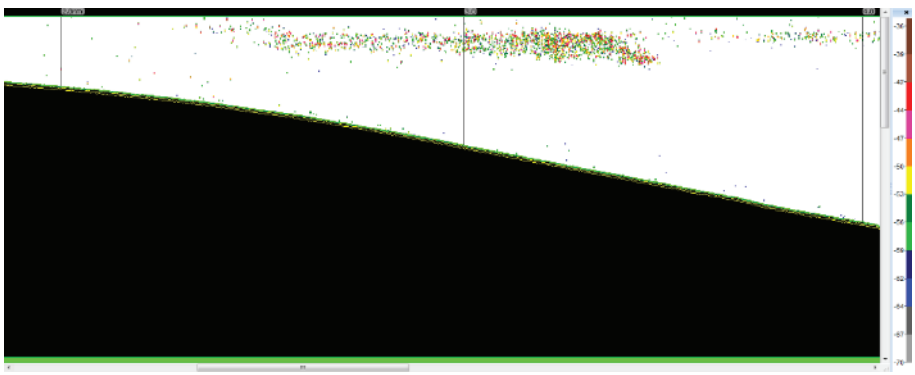


Transect 40-41 Nighttime echogram

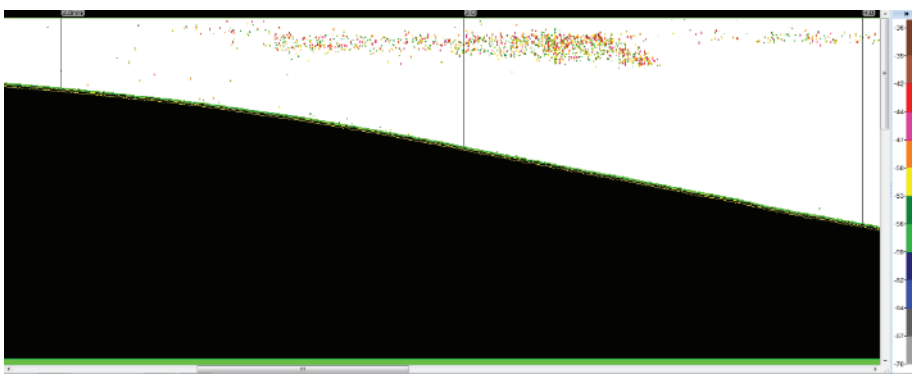
$Sv_{threshold}$ = -70dB



$Sv_{threshold}$ = -60dB



$Sv_{threshold}$ = -56dB



$Sv_{threshold}$ = -54dB

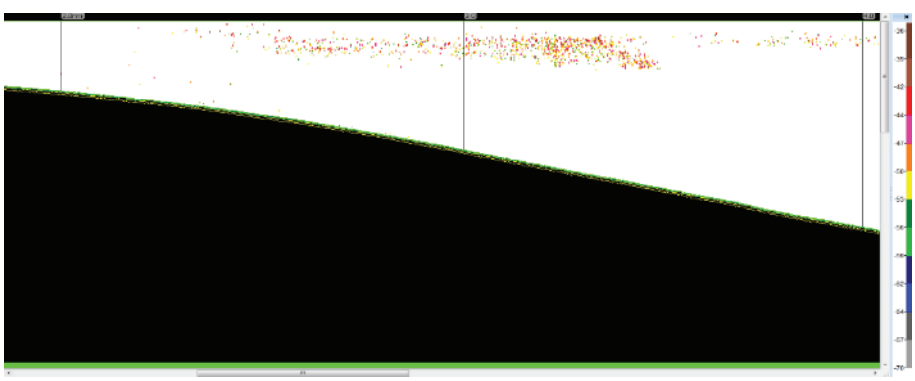
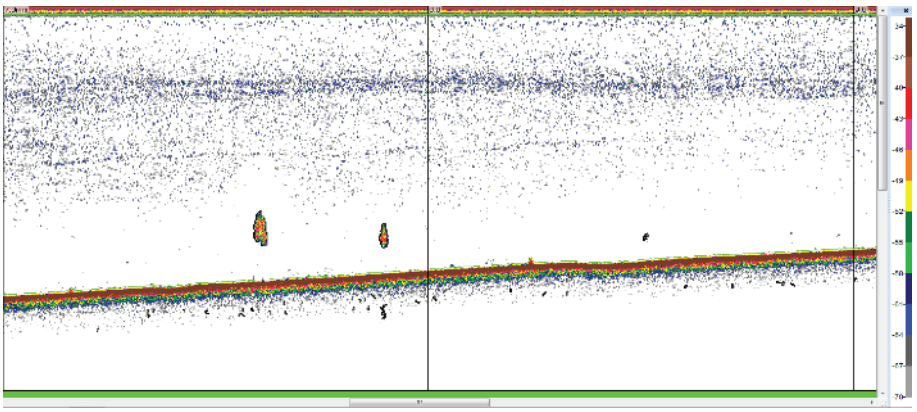


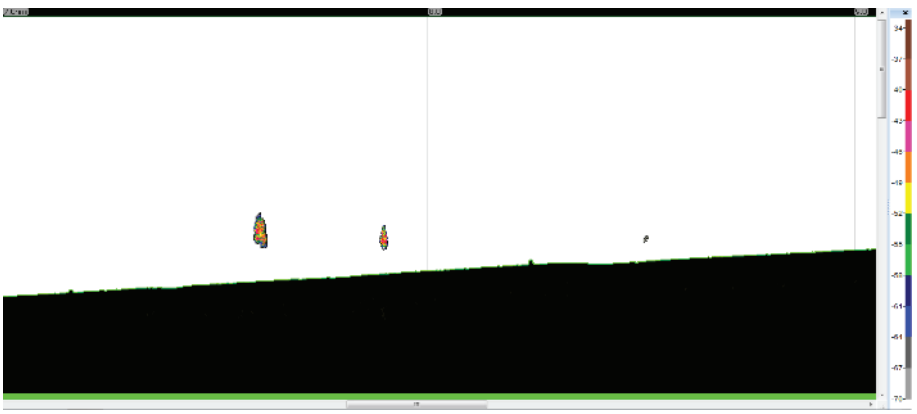
Figure 3S. Acoustic data collected along two transects in the Tyrrhenian Sea.

Transect 175-176 Daytime echogram

$Sv_{threshold}$= -70dB

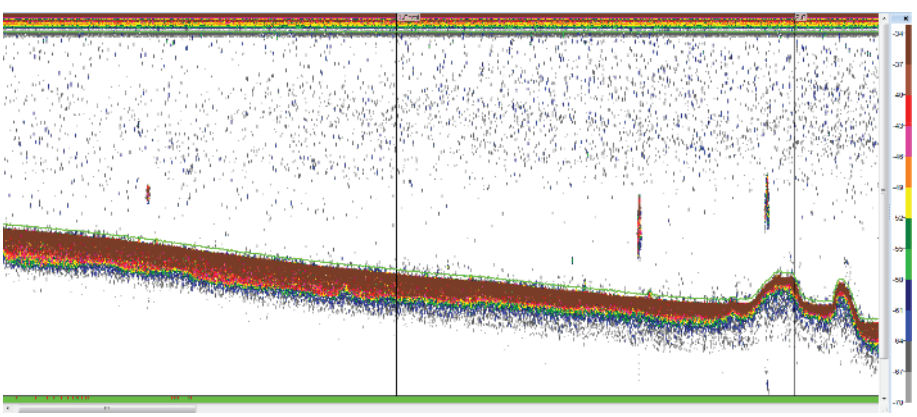


$Sv_{threshold}$= -60dB

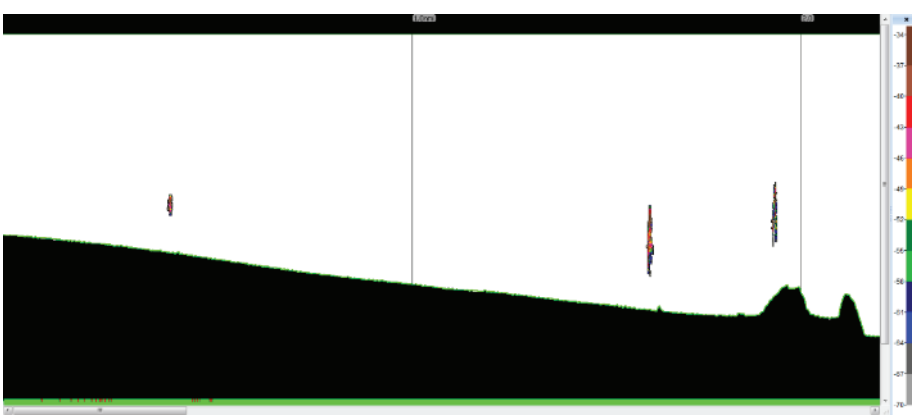


Transect 181-182 Daytime echogram

$Sv_{threshold}$= -70dB

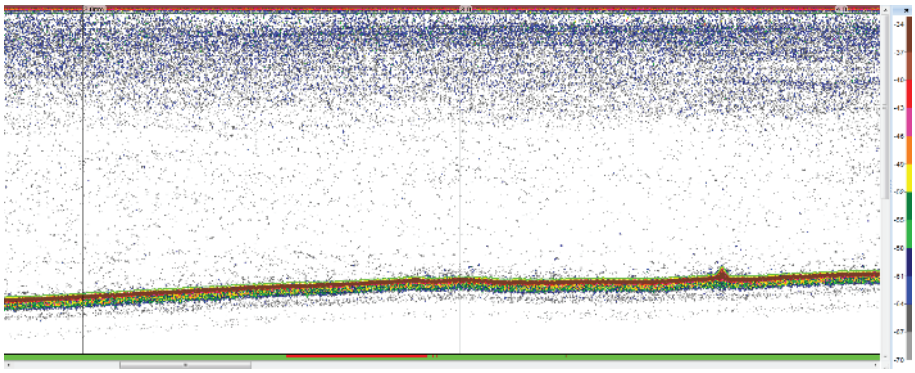


$Sv_{threshold}$= -60dB

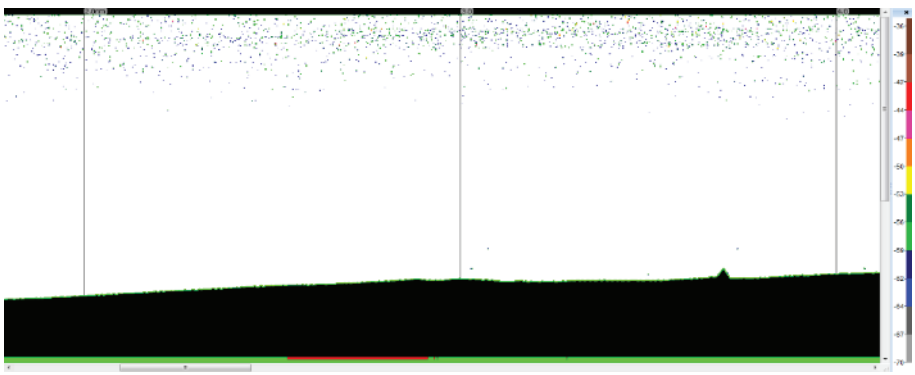


Transect 175-176 Nighttime echogram

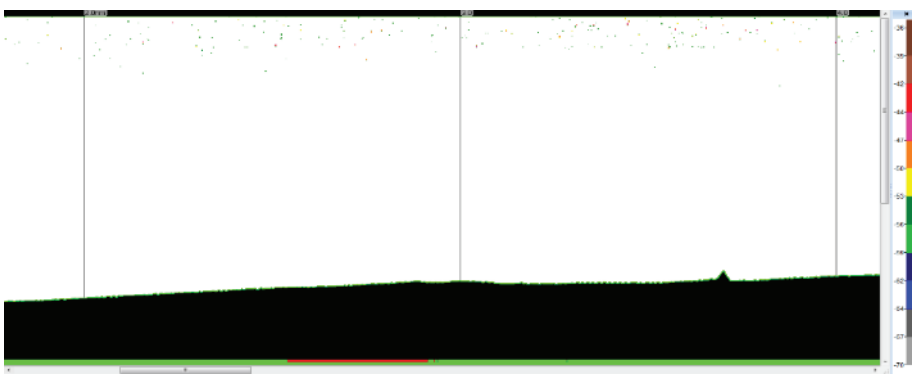
$Sv_{threshold}$ = -70dB



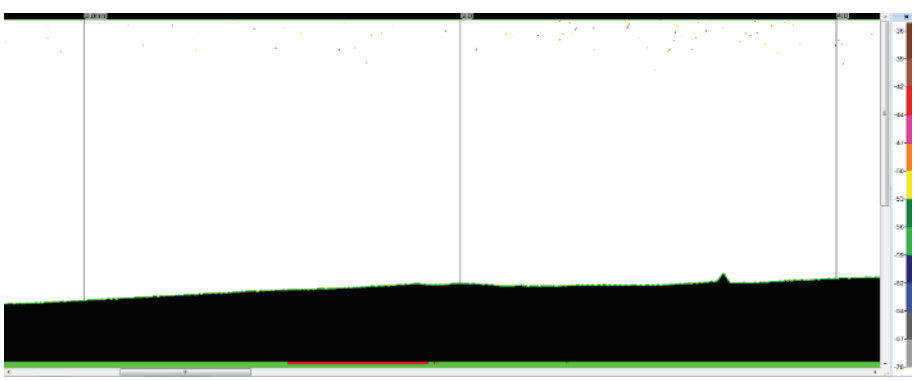
$Sv_{threshold}$ = -60dB



$Sv_{threshold}$ = -56dB

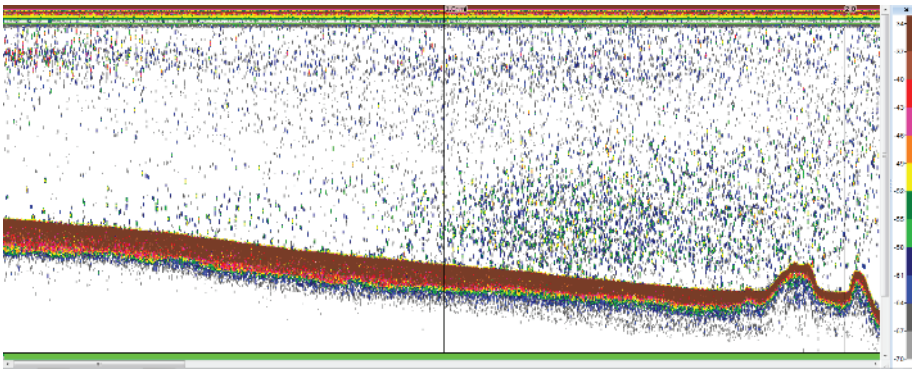


$Sv_{threshold}$ = -54dB

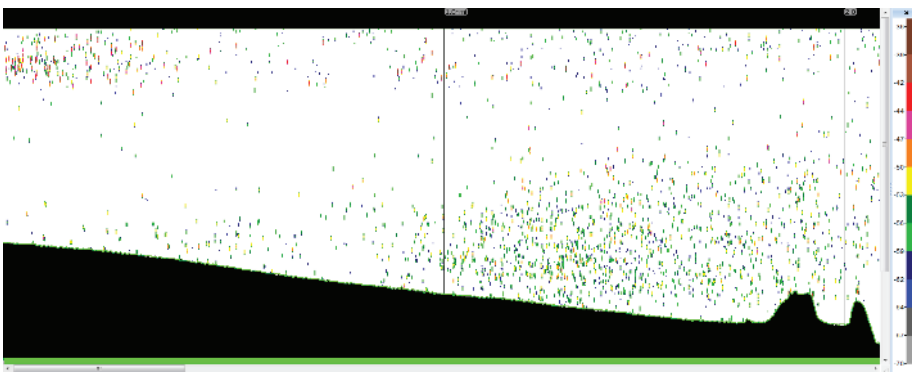


Transect 181-182 Nighttime echogram

$Sv_{threshold}$ = -70dB



$Sv_{threshold}$ = -60dB



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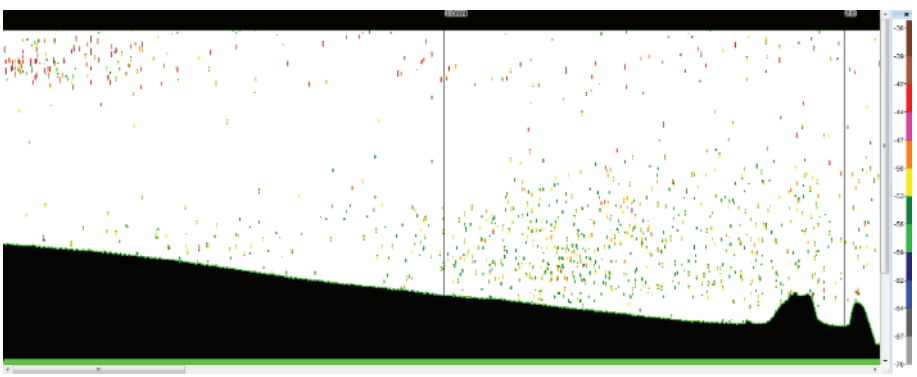

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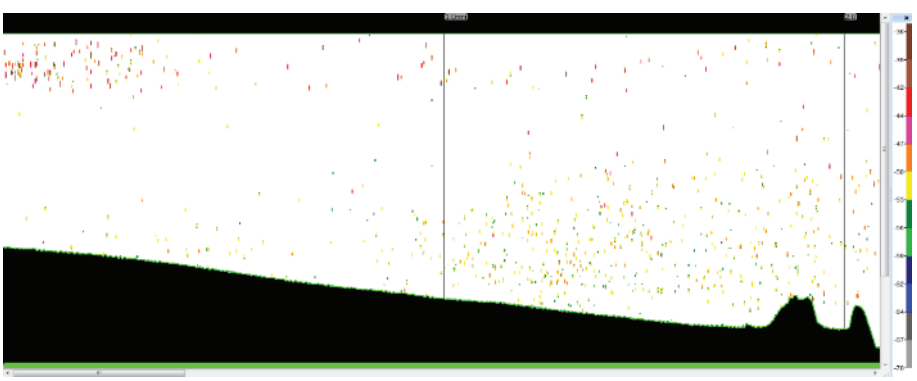
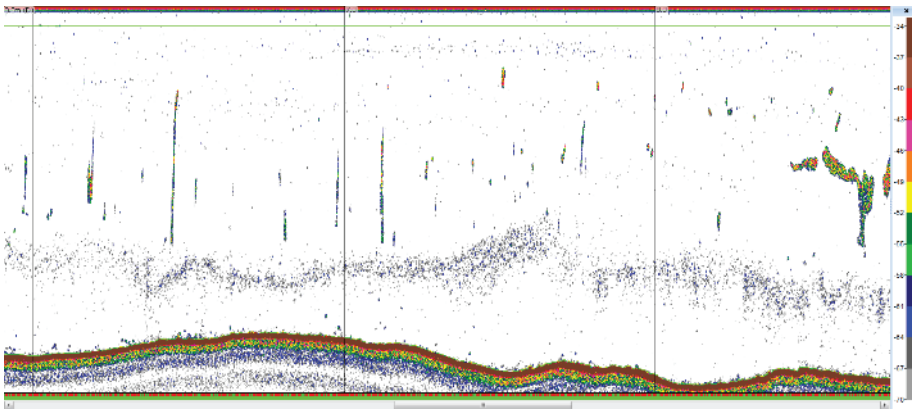


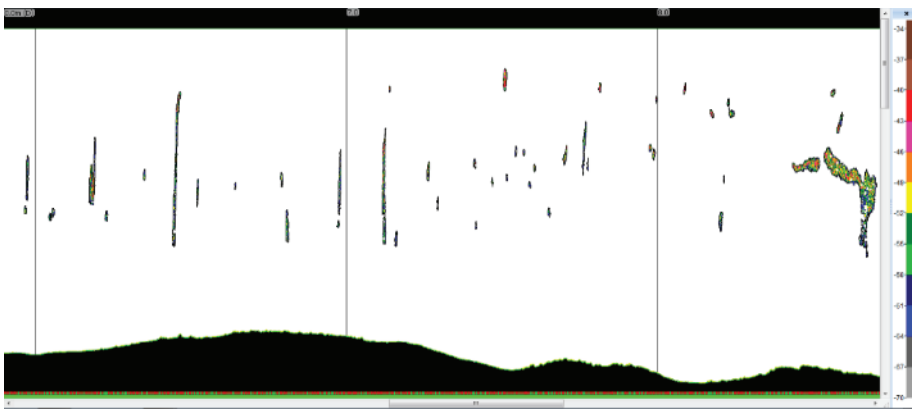
Figure 4S. Acoustic data collected in the Northern Spain area.

Transect N. 02 Daytime echogram

$Sv_{threshold}$= -70dB

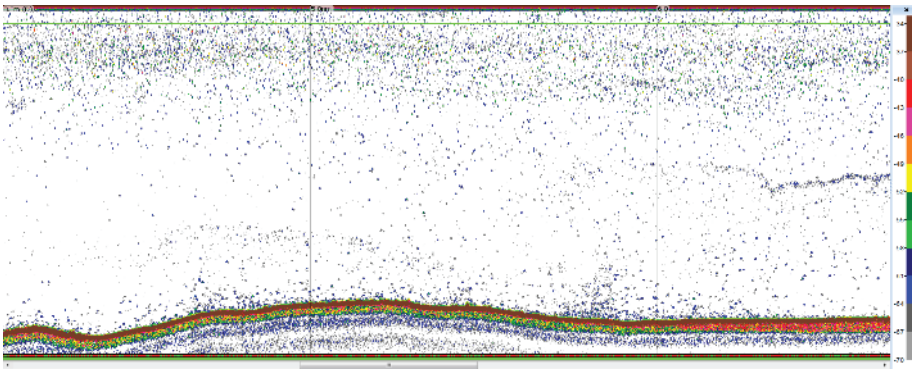


$Sv_{threshold}$= -60dB

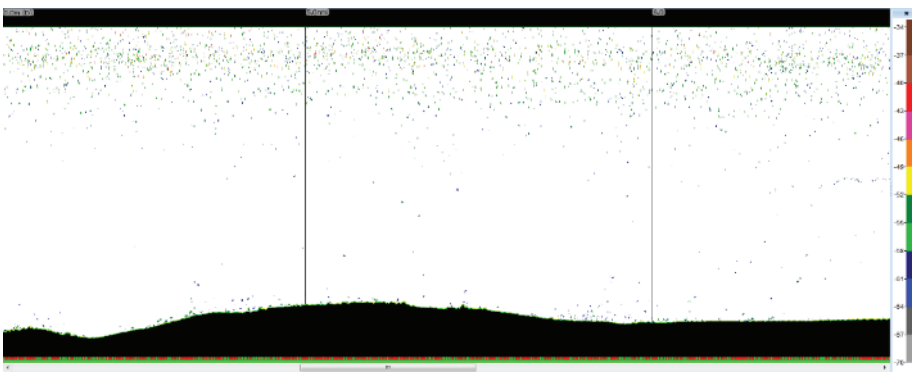


Transect N. 02 Nighttime echogram

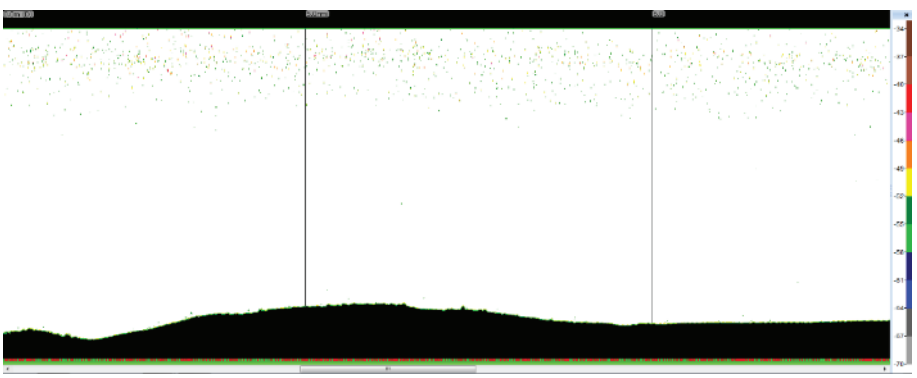
$Sv_{threshold}$ = -70dB



$Sv_{threshold}$ = -60dB



$Sv_{threshold}$ = -56dB



$Sv_{threshold}$ = -54dB

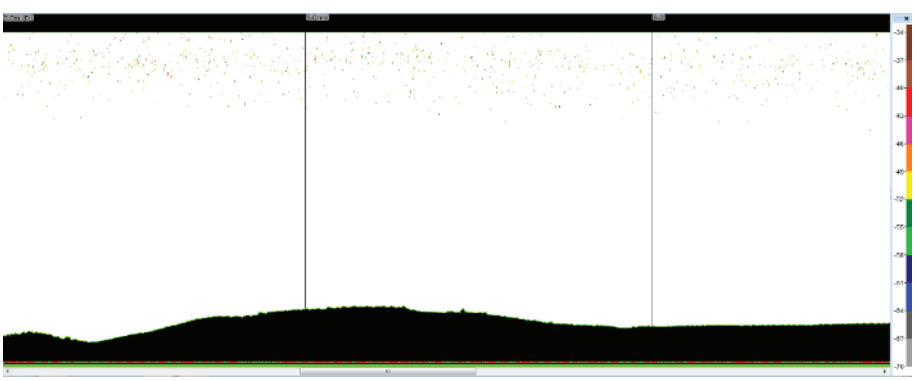
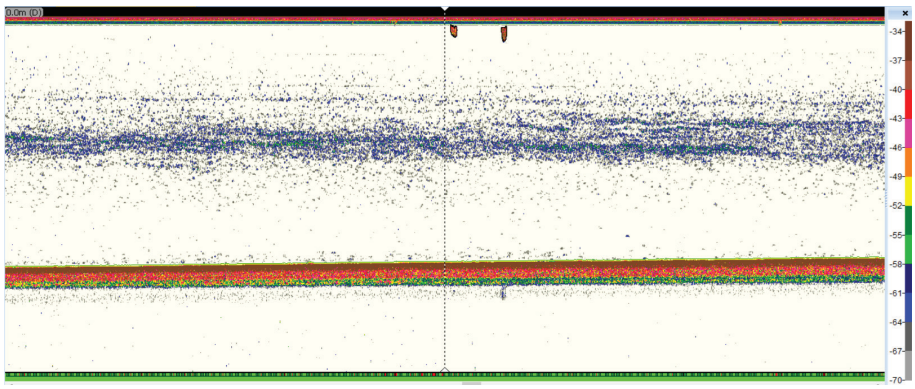


Figure 5S. Acoustic data collected along two transects in south-western Adriatic Sea.

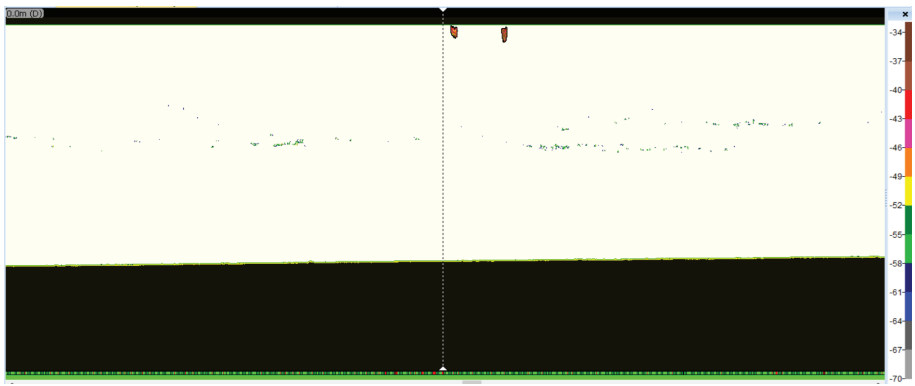
Barletta area

Daytime echogram

$Sv_{threshold}$ = -70dB



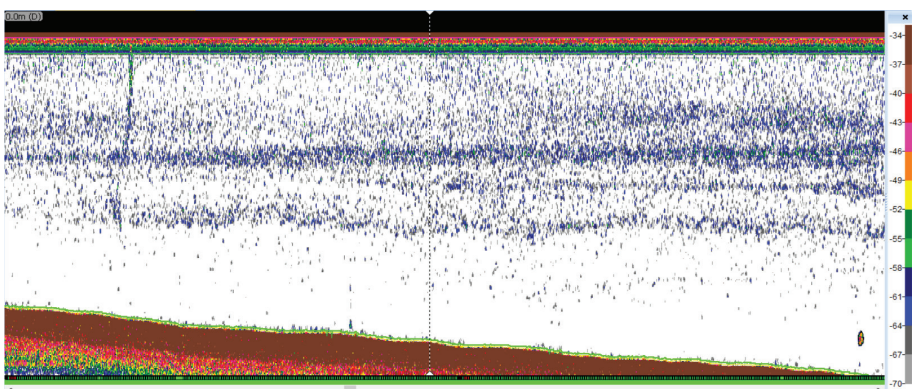
$Sv_{threshold}$ = -60dB



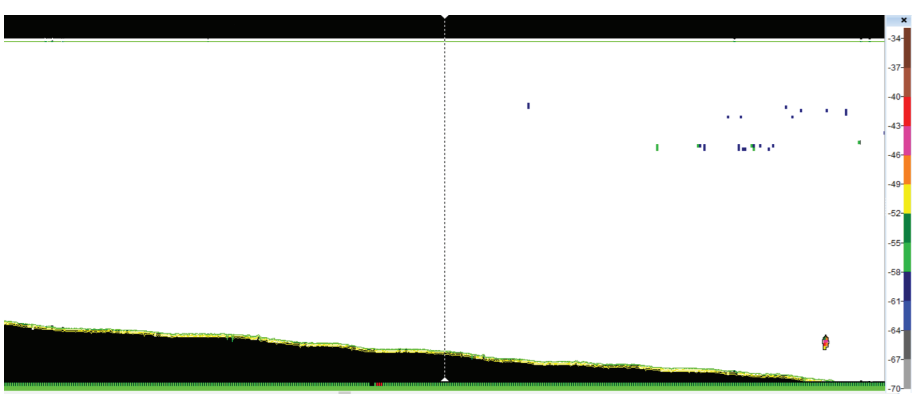
Vasto area

Daytime echogram

$Sv_{threshold}$ = -70dB



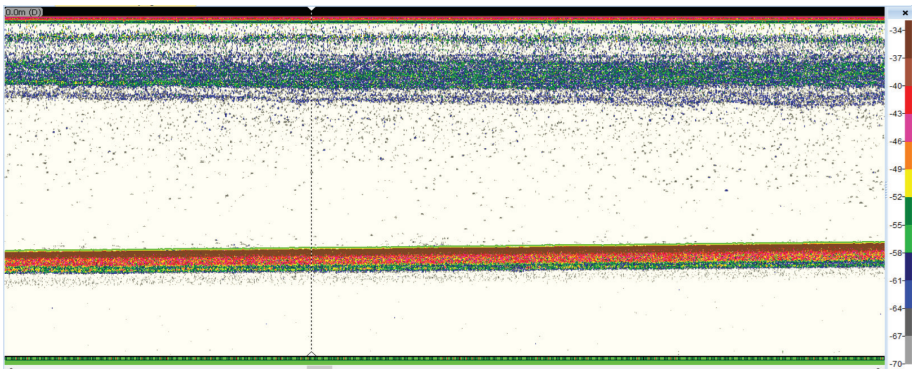
$Sv_{threshold}$ = -60dB



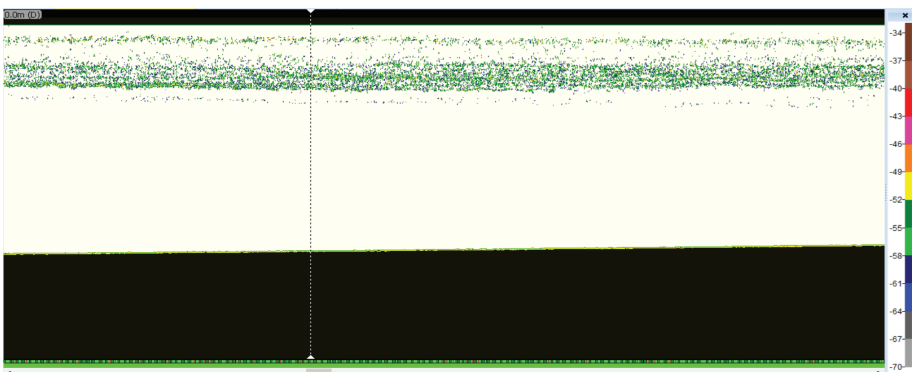
Barletta area

Nighttime echogram

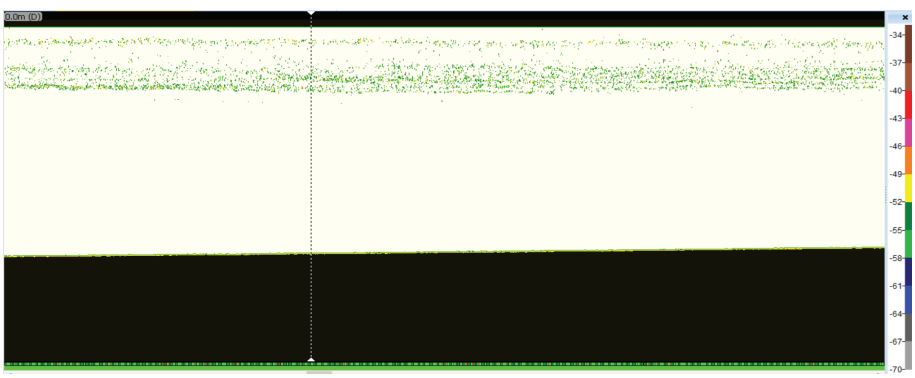
$Sv_{threshold}$ = -70dB



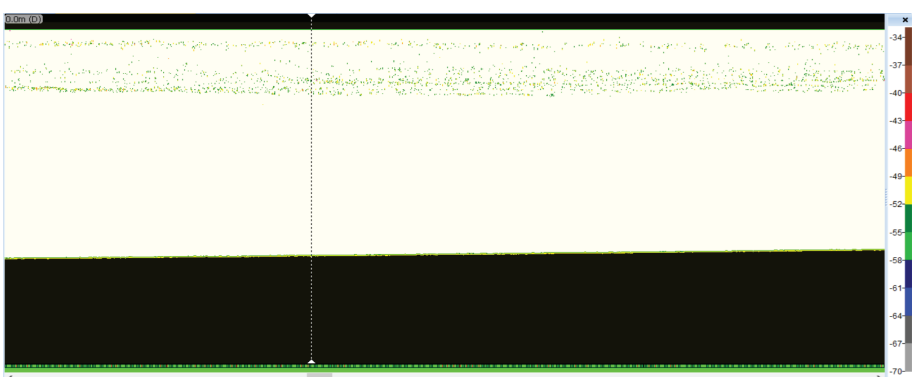
$Sv_{threshold}$ = -60dB



$Sv_{threshold}$ = -56dB



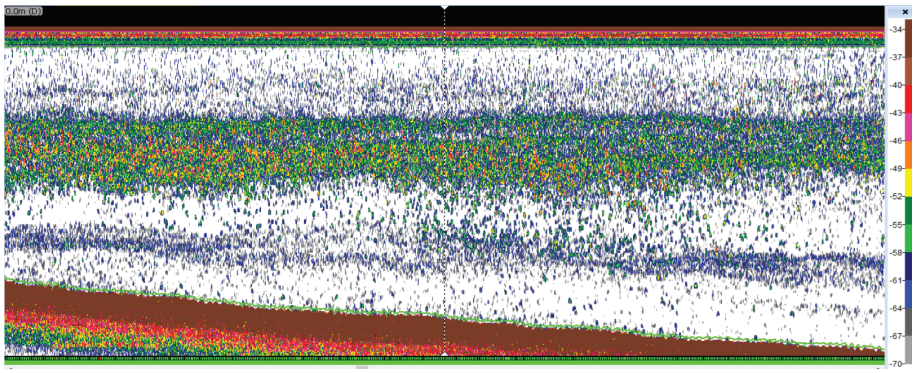
$Sv_{threshold}$ = -54dB



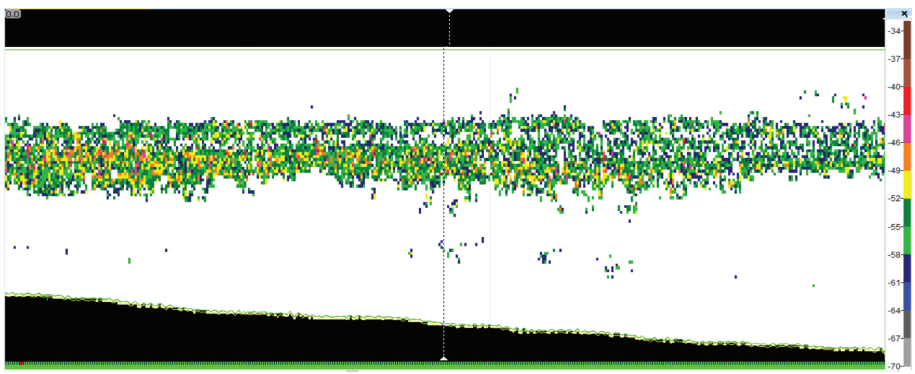
Vasto area

Nighttime echogram

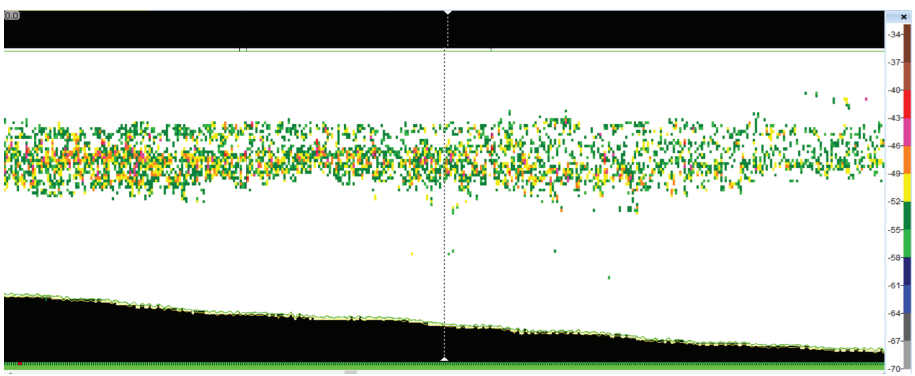
$Sv_{threshold}$ = -70dB



$Sv_{threshold}$ = -60dB



$Sv_{threshold}$ = -56dB



$Sv_{threshold}$ = -54dB