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the results indicate that i the facet reflection process broadens the fathometer returns for a short pulse characteristic of an impulsive source ii the hybrid paths are important adding about 5 db reverberation when the bottom loss is low and iii bottom loss is as important as the backscattering in determining the reverberation level

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bottom loss estimate from ship noise using a ray based blind

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the bottom loss is estimated as a function of grazing angle using the ratio of intensity impulse responses between direct path and bottom bounce path after compensating for the transmission loss for two paths

ray transmissions over a sloping bottom in shallow water

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sloping bottom influence on per ray quantities including travel time and transmission loss are examined for cw transmissions signi ficant variations are shown to occur such as travel time changes of more than 200 ms over ranges of about six km per ray transmission loss is found dd 1 jan 73

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the results indicate that i the facet reflection process broadens the fathometer returns for a short pulse characteristic of an impulsive source ii the hybrid paths are important adding about 5 db reverberation when the bottom loss is low and iii bottom loss is as important as the backscattering in determining the reverberat

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bottom loss from geoacoustic inversions the journal of the

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this paper illustrates comparisons of bottom loss measurements for low and high frequency bands 50 20 000 hz and calculations from estimated geoacoustic profiles for deep and shallow water environments

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bottom loss measurements and their use in studying the

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bottom reflection loss measurements have been conducted for four decades and have provided key insights into the physics of propagation in marine sediments the advantage of bottom loss as an analysis quantity is that in principle it completely isolates the role of the seabed and permits separation and identification of key physical mechanisms

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the results indicate that i the facet reflection process broadens the fathometer returns for a short pulse characteristic of an impulsive source ii the hybrid paths are important adding about 5 db reverberation when the bottom loss is low and iii bottom loss is as important as the backscattering in determining the reverberation level

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free space path loss model typically used for unobstructed los signal path received signal is r t u t gtgrλej2πd λ 4πd ej 2πfct receiver power is pr pt gtgrλ 4πd 2 pr pt gtgr λ 4πd 2 power falls off proportional to 1 d 2and to λ2 1 fc

path loss volgenau school of engineering

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i in free space path loss l p is given by friis s formula l p 4pd l c 2 4pf c d c 2 i path loss increases proportional to the square of distance d and frequency f c i in db l p db 20 log 10 c 4p 20 log 10 f c 20 log 10 d i example f c 1ghz and d 1km l p db 146db 180db 60db 94db 2018 b p paris ece 732 mobile

sonar propagation federation of american scientists

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the rays tends to converge near the surface resulting in a reduced transmission loss this is called bottom bounce propagation rays from bottom bounce can be

identified from the others because of the larger angle of incidence typical bottom bound comes into the sonar at angles of more than 30 o from horizontal

principles of underwater sound chapter 8

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in general bottom loss will tend to increase with frequency and with the angle of incidence soft bottoms such as mud are usually associated with high bottom losses 10 to 30 db bounce hard bottoms such as smooth rock or sand produce lower losses

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loss appears to increase linearly with both grazing angle and frequency hence bottom loss data appear to be incapable of separating a and g providing only estimates of their ratio this paper describes a technique for estimating both a and g from classical bottom loss versus grazing angle data in such

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