

FORM TO SPECIFY INPUT DATA FOR
OCEAN ABSORPTION MODEL SLLOSS

This absorption model depends only on the acoustic wave frequency ω (rad/s), according to the formula

$$\alpha = a \frac{\omega^2}{\omega_1^2} + b \frac{\omega^2}{\omega_2^2 + \omega^2}$$

The following values for the coefficients correspond to the model of Skretting and Leroy (1971)*:

$a = 0.006$ dB/km ; $\omega_1 = 6283.2$ rad/s (= 1000.0 Hz)

$b = 0.2635$ dB/km ; $\omega_2 = 10,681.4$ rad/s (= 1700.0 Hz)

Specify--

the model check for SLLOSS = 1. (W500)

the input data-format code = (W501)

an input data-set identification number = (W502)

an 80-character description of the model, including parameter values:

a = nepers/km, dB/km (W503)

b = nepers/km, dB/km (W504)

ω_1 = rad/s Hz (505)

ω_2 = rad/s Hz (W506)

Other models required: any absorption perturbation model. Use NPABSR if no perturbation is desired.

*see References.