FORM TO SPECIFY INPUT DATA FOR SOUND-SPEED PERTURBATION MODEL CBLOB3

An increase (or decrease) in sound speed in up to three localized regions that decays in a Gaussian manner in all three spatial directions.

$$C (r,\theta,\phi) = C_0(r,\theta,\phi) \left\{ 1 + \sum_{i=1}^{n} \Delta_i \exp\left[-\left(\frac{z-z_i}{W_{zi}}\right)^2 - \left(\frac{\theta-\theta_i}{W_{\theta i}}\right)^2 - \left(\frac{\phi-\phi_i}{W_{\phi i}}\right)^2\right] \right\}$$

 $C_0(r,\theta,\phi)$ is a background sound-speed model, (r,θ,ϕ) are Earth-centered spherical-polar coordinates. $z=r-r_e$, where r_e is the Earth's radius. $\lambda_i=\pi/2-\theta_i$ is the latitude. Specify—

the model check number for subroutine CBLOB3 = 3. (W175) the input data format code = (W176) an input data set identification number = (W177) an 80-character description for the sound-speed perturbation model, including description of parameter set:

OTHER MODELS REQUIRED: None.

^{*}Setting a W = 0 results in no space variation in that direction.