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Erratum

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**Full Wave Theory Applied
to a Discontinuous Velocity Increase:
The Inner Core Boundary**

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On page 13 the Equation (14) has corrections to the denominator of the fraction in the large brackets; i.e.:

$$D_{S'_I} = D_{S_I}^2 \left\{ 1 - \frac{\left\{ A \frac{i^{(1)}}{i^{(1)}} - B \frac{k^{(1)}}{k^{(1)}} \left[C \frac{i^{(1)}}{i^{(1)}} + D \right] \right\} \frac{i^{(1)}}{i^{(2)}}}{-A \frac{i^{(2)}}{i^{(2)}} + B \frac{k^{(1)}}{k^{(1)}} \left[C \frac{i^{(2)}}{i^{(2)}} + D \right]} \right\} i^{(2)} k^{(1)}, \tag{14}$$

On page 14 the common denominator of S'_I and S''_I is simply $D_{S'_I}$ given by the corrected Equation (14). A Factor $D_{S'_I}$ in the common denominator cancels D_{S_I} in the numerator of the sum fraction for S_I . For the resulting Equation? (15a) and (15b) to represent the denominator of S_I they must be multiplied by a factor $k^{(1)}$.

$$D_{S_I} = \left\{ -A i^{(2)} k^{(1)} + B k^{(1)} [C i^{(2)} + D i^{(2)}] - A i^{(1)} k^{(1)} + B k^{(1)} [C i^{(1)} + D i^{(1)}] \right\} k^{(1)} \tag{15a}$$

Combining terms here results in

$$D_{S_I} = \{ -A j' k^{(1)} + B k^{(1)} [C j' + D j] \} k^{(1)}. \tag{15b}$$

On page 27 subscripts appearing in Equation (A1) should read as follows:

$$\begin{aligned} T_{KI}^\downarrow &= [\rho_2 (\alpha_1/\alpha_2) v_1 (C_{i2}^{(1)} + C_{i2}^{(2)})]/D_{S'_I} \\ T_{IK}^\uparrow &= [\rho_1 v_1 (C_{i1}^{(1)} + C_{i1}^{(2)})]/D_{S'_I} \\ R_I^\downarrow &= [-\rho_2 C_{i1}^{(2)} + (\rho_1/\alpha_2) C_{i2}^{(2)} (\alpha_1 v_1^2 + 4\beta_1^3 p^2/r_i^2 C_{i1}^{(2)} C_{j1}^{(2)})]/D_{S'_I} \\ R_I^\uparrow &= [\rho_2 C_{i1}^{(1)} + (\rho_1/\alpha_2) C_{i2}^{(1)} (-\alpha_1 v_1^2 + 4\beta_1^3 p^2/r_i^2 C_{i1}^{(1)} C_{j1}^{(1)})]/D_{S'_I} \\ S_I &= [-\rho_2 C_{i1}^{(1)+(2)} + (\rho_1/\alpha_2) C_{i2}^{(2)} (\alpha_1 v_1^2 + 4\beta_1^3 p^2/r_i^2 C_{i1}^{(1)+(2)} C_{j1}^{(2)})]/D_{S_I}. \end{aligned} \tag{A1}$$