Errata:

Samelson, R. M., 2010. An effective-beta vector for linear planetary waves on a weak mean flow. *Ocean Modelling*, 32, 170-174, doi:10.1016/j.ocemod.2010.01.006.

1. Equation (1.16):

$$\begin{aligned}\omega_1(K^2+\lambda^{-2}) &= \int_{-H}^{0}\left[(K^2+\lambda^{-2})(k\tilde{U}+l\tilde{V})+k\frac{d}{dz}\left(\frac{f^2}{N^2}\frac{d\tilde{U}}{dz}\right)+l\frac{d}{dz}\left(\frac{f^2}{N^2}\frac{d\tilde{V}}{dz}\right)\right]P_0^2\,dz \\ &\quad -\left[(k\frac{d\tilde{U}}{dz}+l\frac{d\tilde{V}}{dz})\frac{f^2}{N^2}P_0^2\right]_{z=-H}^{z=0} \\ &= \int_{-H}^{0}\left[(K^2+\lambda^{-2})(k\tilde{U}+l\tilde{V})P_0-2(k\frac{d\tilde{U}}{dz}+l\frac{d\tilde{V}}{dz})\frac{f^2}{N^2}\frac{dP_0}{dz}\right]P_0\,dz\end{aligned}$$

2. Equation (2.4):

$$\frac{d}{dz}\left[\frac{f^2}{N^2}\frac{d(\hat{U}_nP_0^{(n)})}{dz}\right]=-\lambda_n^{-2}\hat{U}_nP_0^{(n)},\quad \frac{d}{dz}\left[\frac{f^2}{N^2}\frac{d(\hat{V}_nP_0^{(n)})}{dz}\right]=-\lambda_n^{-2}\hat{V}_nP_0^{(n)}$$