



Fig. 1. The complex Love numbers \tilde{h}_2 (a) and \tilde{l}_2 (b). The dashed curves are calculations in which the silicate core has a nearly fluid response, appropriate to NSR (see Section 7). The solid curves indicate a core having a nearly rigid response, appropriate to the diurnal forcing. Imaginary parts are thin curves, tied to the right axes; real parts are thick curves, tied to the left axes. The upper shell's complex Lamé parameters $\tilde{\lambda}$ (c) and $\tilde{\mu}$ (d). Thick dashed curves correspond to real parts and thin solid curves are the imaginary parts. See Section 8.1 for discussion. All plots use the parameters listed in Table 1, and a range of forcing frequencies ω , represented here by the parameter Δ which represents the value of Δ in the upper layer.