Waves with Power-Law Attenuation:  
Corrections

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6th August, 2019

These are corrections and additions for Holm (2019). Bold text needs to be added and replace stricken out text. Please send new suggestions to email: sverre (a) ifi.uio.no.

1 Introduction
• Page 12, Fig 1.4: New figure and additions to caption (no effect on main text)
• Page 12, misprint: replace \(d^{-t/\tau_{\sigma}}\) by \(e^{-t/\tau_{\sigma}}\) in:

\[
G(t) = E_c + E_e \left( \frac{\tau_c}{\tau_{\sigma}} - 1 \right) e^{-t/\tau_{\sigma}},
\]  
(1.14)

3 Models of linear viscoelasticity
• Page 79, Fig 3.7: \(\tau_{\sigma}\) in formula in upper figure should be \(\tau\)

5 Power-law wave equations from constitutive equations
• Page 126, Fig 5.4: New figure and additions to caption (no effect on main text)
• Page 133, Sect. 5.3.1: Missing minus after last equal sign:

\[
\Delta c_{ph} \approx \frac{c_0}{2} \tau^{-1} y^{-1} \sin \frac{\pi y}{2} \omega y^{-1} = -c_0^2 c_0 \tan \frac{\pi y}{2} \omega y^{-1}
\]  
(5.35)

6 Phenomenological power-law wave equations
• Page 166, line 1, Sect. 6.1.2.1: 
  “... the phase velocity increases as a function of frequency, but then may start falling and eventually become negative zero.”
Justification for power laws and fractional models

- Page 201, change text under Eq. (7.59): where the order may be in resulting in $\tilde{E}(\omega) \approx E_0^{1-\alpha}(i\omega\eta_0)^\alpha$ which extends (7.51) to the range $0 \leq \alpha \leq 1$.

8 Power laws and porous media

- Page 256, Sect. 8.6: The reference of the final bullet point has now been published as Chandrasekaran & Holm (2019).
References
