Errata in Binney and Tremaine, "Galactic Dynamics" 2nd Edition

p. 131 "8 for CIC, 27 for CIC, etc." should read "8 for CIC, 27 for TSC, etc."

p. 140 In equation (2.269), there should be hats on $\Phi_{\mathbf{k}}$ and $\rho_{\mathbf{k}}$.

p. 149 After the 2nd equality of equation (3.31) replace a^2 by $2\pi a^2$

p. 199 At the bottom of the page "through the energy" should read "though the energy"

p. 200 In the last of equations (3.166a) for $\mathbf{q}$ read $\mathbf{q}_{1/2}$; in the last of eqs (3.166b) for $\mathbf{p}$ read $\mathbf{p}_{1/2}$.

p. 221 Equation (3.225) should read

$$J_r = \frac{GM}{\sqrt{-2E}} - \tfrac{1}{2}\left(L + \sqrt{L^2 + 4GMb}\right).$$

p. 223 $-\mathrm{d}\theta$ is missing from the second line of eq. (3.233).

p. 224 In equations (3.235) and (3.236) for

$$\left(\frac{\partial S_\vartheta}{\partial J_2}\right)_{J_3} \quad \text{read} \quad \left(\frac{\partial S_\vartheta}{\partial J_2}\right)_{J_1}$$

p. 229 In eq. (3.251) the big bracket should have an additional term

$$+\frac{\partial S_i}{\partial L_z}.$$

p. 270 Problem 3.24: The vector $\hat{\mathbf{e}}_2$ should point towards $\ell = 270°$, $b = 0°$, not $b = 90°$.

p. 282 A bar is missing on $v_\parallel$ in the following phrases: "the observable quantities $v_\parallel$ and..."; "Notice that while $v_\parallel$ depends only...".

p. 326 "the Japan" should read "Japan".

p. 495 line above equation (6.65): $|k| < k_{\rm crit}$ should read $|k| > k_{\rm crit}$. Similarly $\lambda > \lambda_{\rm crit}$ should read $\lambda < \lambda_{\rm crit}$.

p. 682 in (8.110) for H_{ij} read D_{ij}.

p. 788 in equation (C.36), $P_l^0(x)$ in the last expression should be replaced by $(x^2-1)^l$. Thus (C.36) should read

$$P_l^m(x) = (-1)^m(1-x^2)^{m/2}\frac{\mathrm{d}^m P_l^0(x)}{\mathrm{d}x^m} = (-1)^m\frac{(1-x^2)^{m/2}}{2^l l!}\frac{\mathrm{d}^{l+m}(x^2-1)^l}{\mathrm{d}x^{l+m}}.$$

p. 789 in equation (C.37) there is a missing factorial sign in the denominator after $[\frac{1}{2}(l+m)]$, so the equation should read

$$P_l^m(0) = (-1)^{(l+m)/2}\frac{(l+m)!}{2^l[\frac{1}{2}(l-m)]!\,[\frac{1}{2}(l+m)]!} \quad (l-m \text{ even}),$$