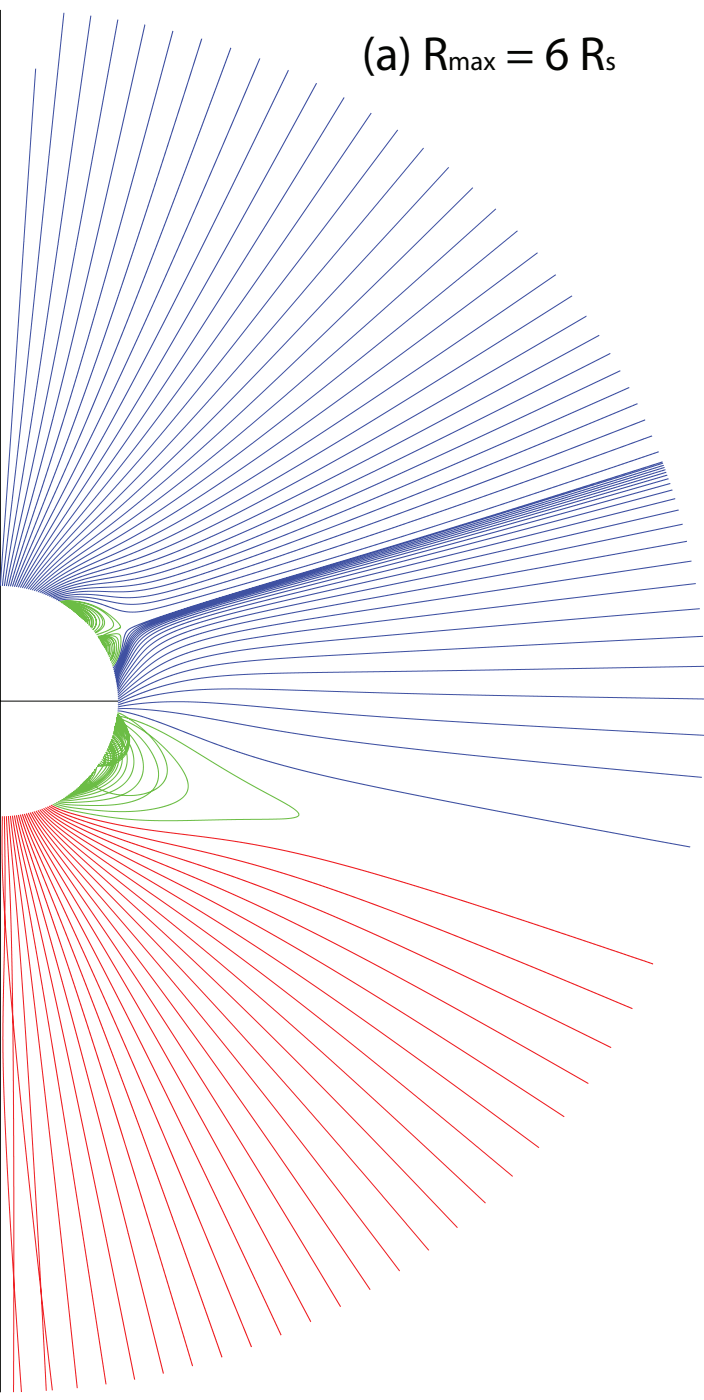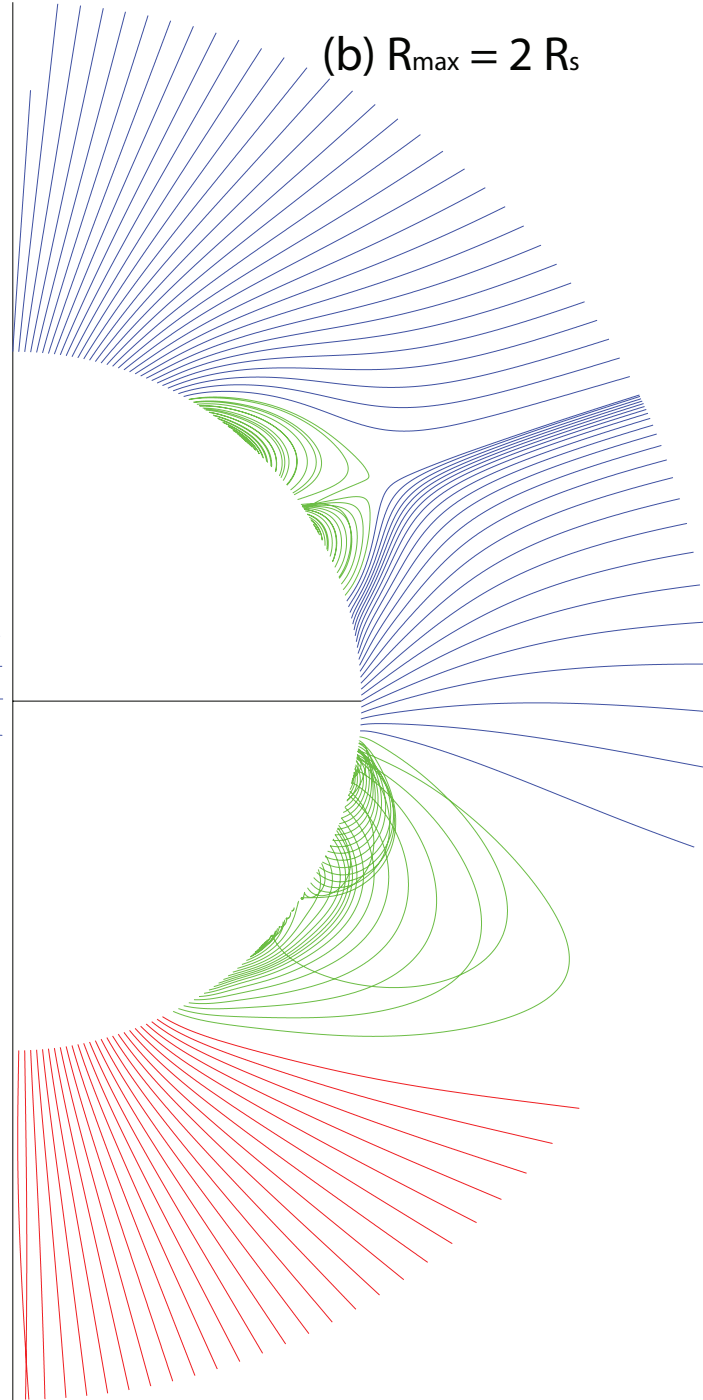(a) $R_{max} = 6\,R_s$

(b) $R_{max} = 2\,R_s$

(c) $R_{max} = 1.5\,R_s$

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