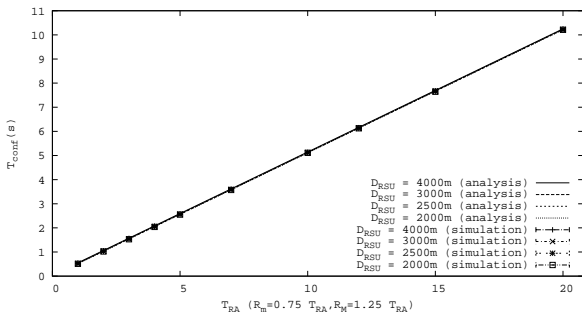


(a)  $R = 150\text{m}$



(b)  $R = 300\text{m}$