



- Cell Radius = 1 km
 Max UAV Velocity = 55 m/s
 Data Payload Size = 1 Mb
 Average Power Constraint = 1.2 kW
 25 Waiting States (UAV Radius Levels)
 Arrival Rate (Λ) = 1 request every minute
- Cell Center | BS at (0, 0) | UAV Initially at (0, 0)
 - $v = 7.50$ m/s | No Waiting, Move to next level
 - $v = 21.47$ m/s | $v_r^* = 7.50$ m/s | Waiting | $\theta_c^* = 27.67$ deg/s
 - $v = 7.50$ m/s | After Waiting, Move to next level
 - $v = 21.47$ m/s | $v_r^* = 7.50$ m/s | Waiting | $\theta_c^* = 13.84$ deg/s
 - $v = 7.50$ m/s | After Waiting, Move to next level
 - $v = 22.50$ m/s | No Waiting, Move to prev level
 - $v = 22.50$ m/s | No Waiting, Move to prev level
 - $v = 22.50$ m/s | No Waiting, Move to prev level
 - $v = 22.50$ m/s | No Waiting, Move to prev level
 - $v = 22.50$ m/s | No Waiting, Move to prev level
 - $v = 22.50$ m/s | No Waiting, Move to prev level
 - $v = 27.50$ m/s | No Waiting, Move to prev level
 - $v = 27.50$ m/s | No Waiting, Move to prev level
 - $v = 27.50$ m/s | No Waiting, Move to prev level
 - $v = 27.50$ m/s | No Waiting, Move to prev level
 - $v = 27.50$ m/s | No Waiting, Move to prev level
 - $v = 27.50$ m/s | No Waiting, Move to prev level
 - $v = 33.30$ m/s | No Waiting, Move to prev level
 - $v = 33.30$ m/s | No Waiting, Move to prev level
 - $v = 33.30$ m/s | No Waiting, Move to prev level
 - $v = 33.30$ m/s | No Waiting, Move to prev level
 - $v = 33.30$ m/s | No Waiting, Move to prev level
 - $v = 33.30$ m/s | No Waiting, Move to prev level
 - $v = 38.00$ m/s | No Waiting, Move to prev level
 - $v = 38.00$ m/s | No Waiting, Move to prev level
 - $v = 38.00$ m/s | No Waiting, Move to prev level
 - $v = 38.00$ m/s | No Waiting, Move to prev level