# UAT MOPS Meeting 8 Supplemental Results

## UAT-WP-8-11
## European Air-Ground and
## LA 2020 Bottom Only Results

Larry Bachman

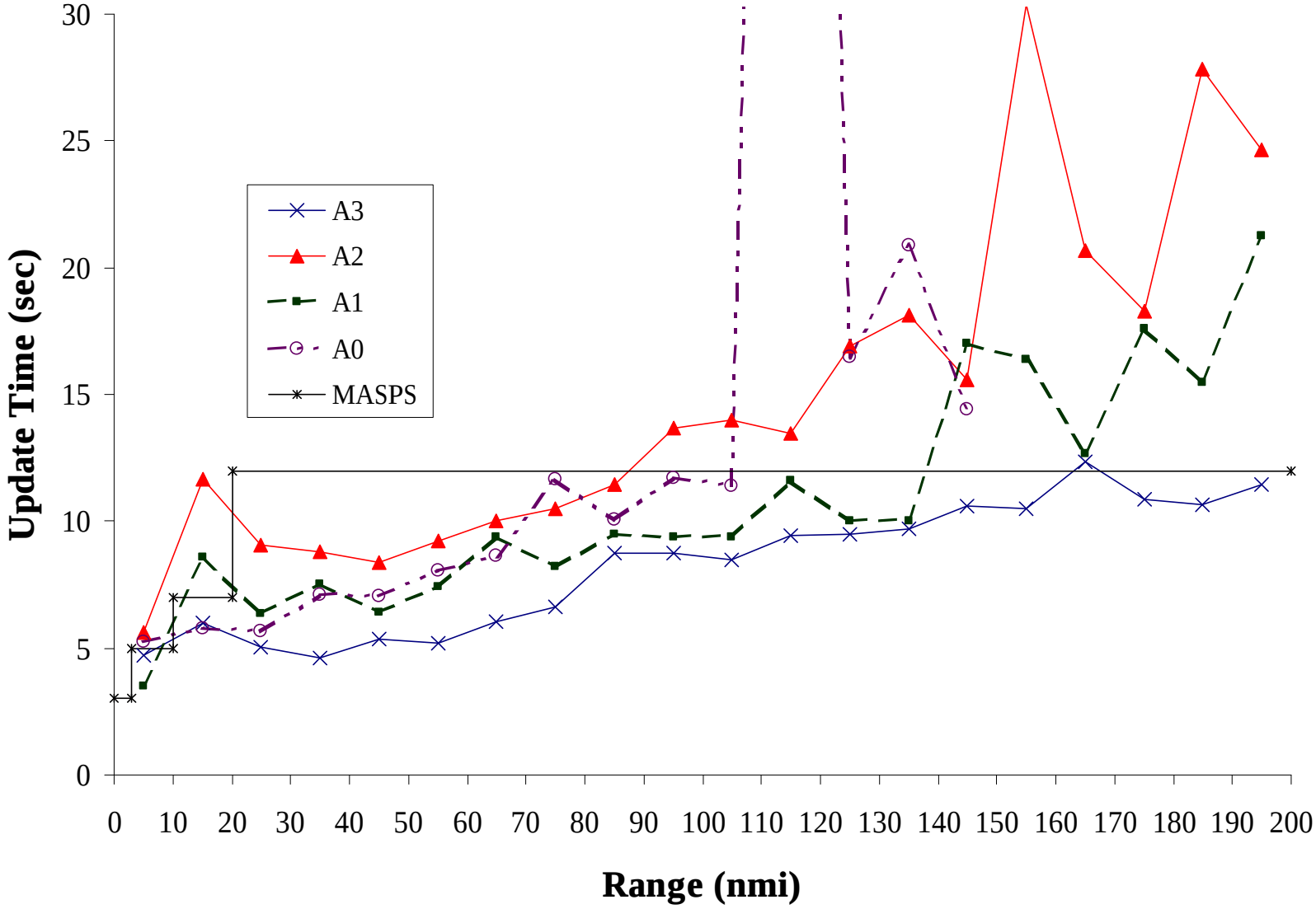
(240) 228-6339

larry.bachman@jhuapl.edu

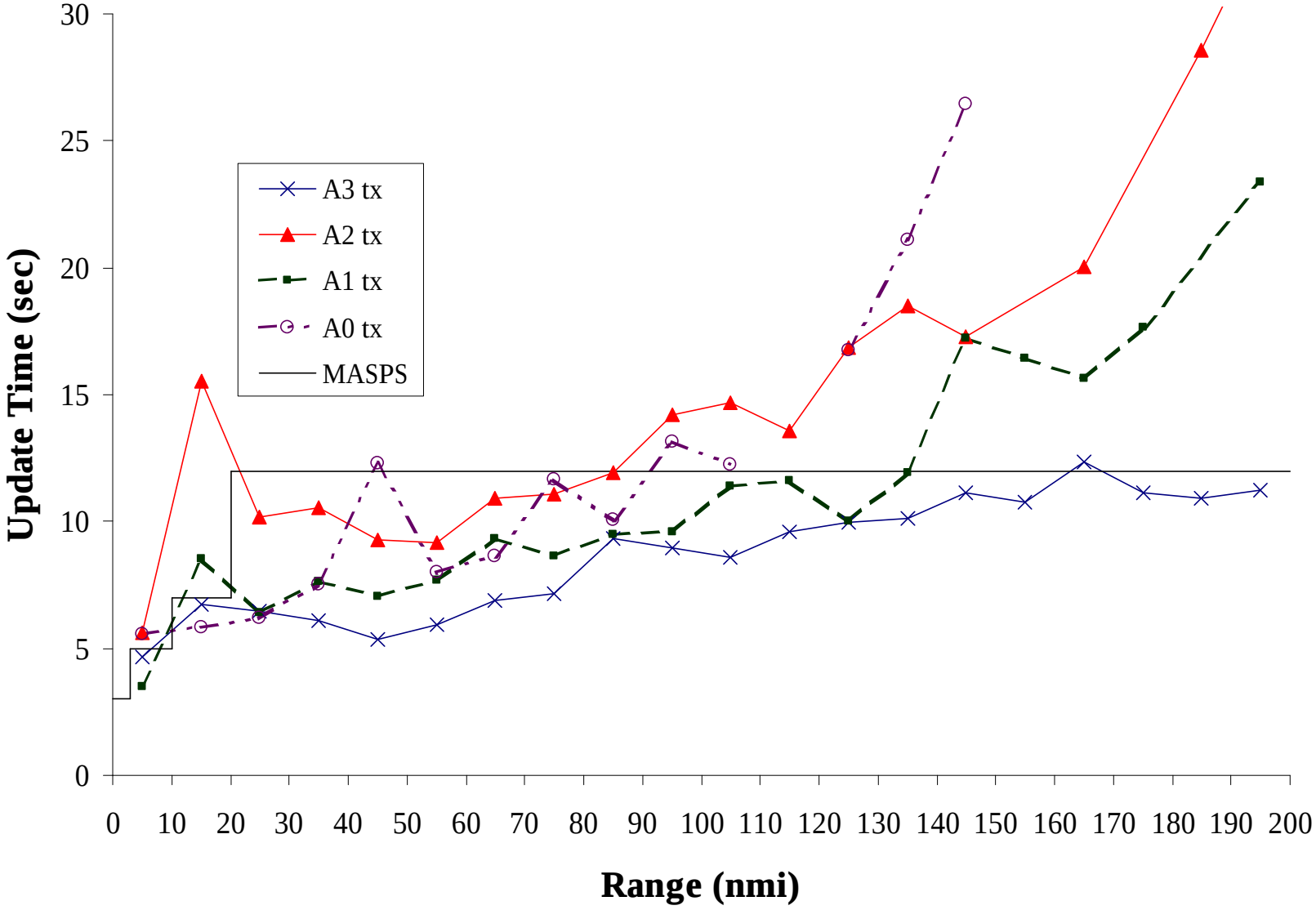
# European Air-Ground Assumptions

- Core Europe 2015 Scenario
- JTIDS Baseline “B”
- TACAN Interference – results with and without a 10 kW TACAN transmitter at 979 MHz located 1000 feet from receiver

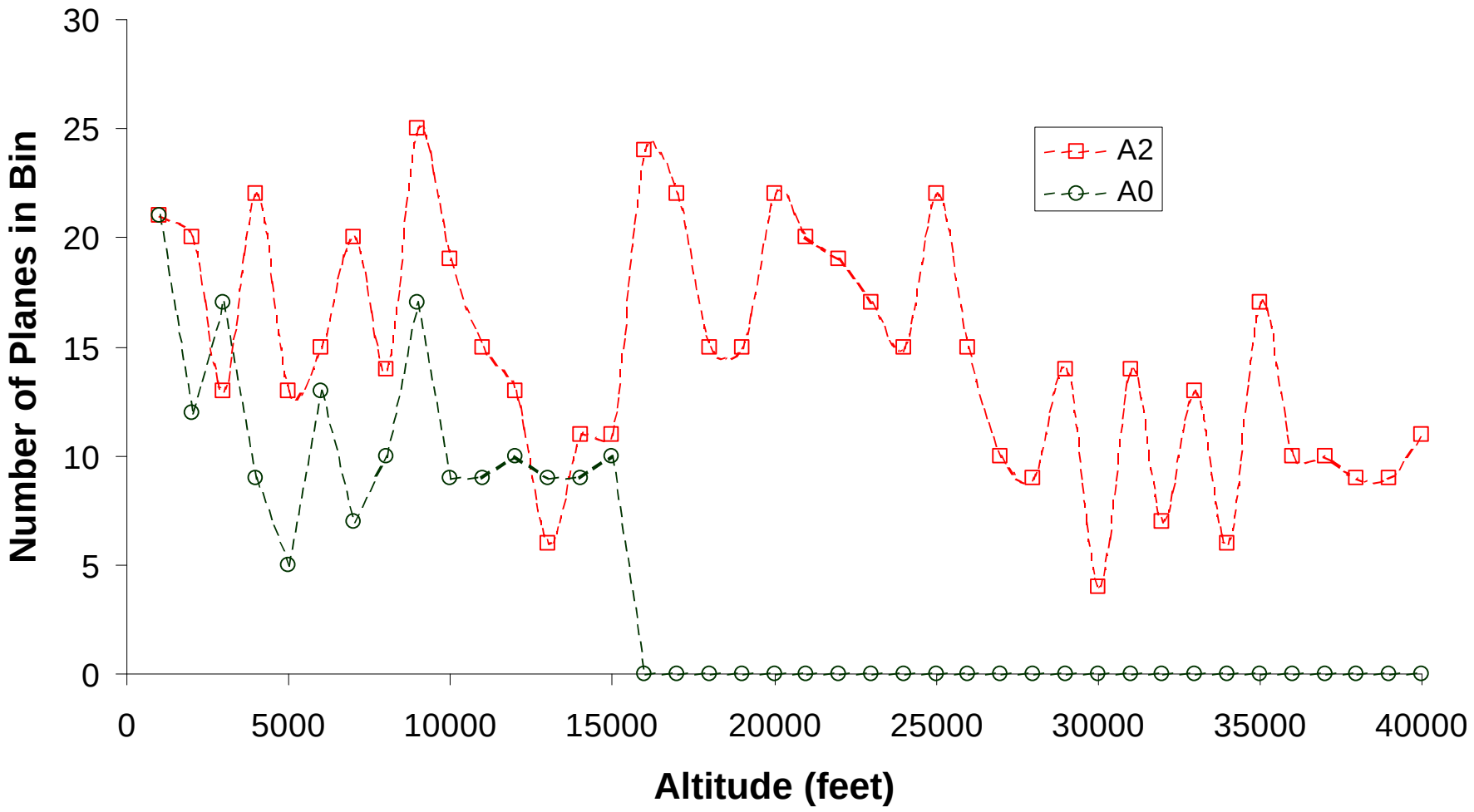
# State Vector Update Rates for Ground Receiver in Europe (no TACAN Transmitter)



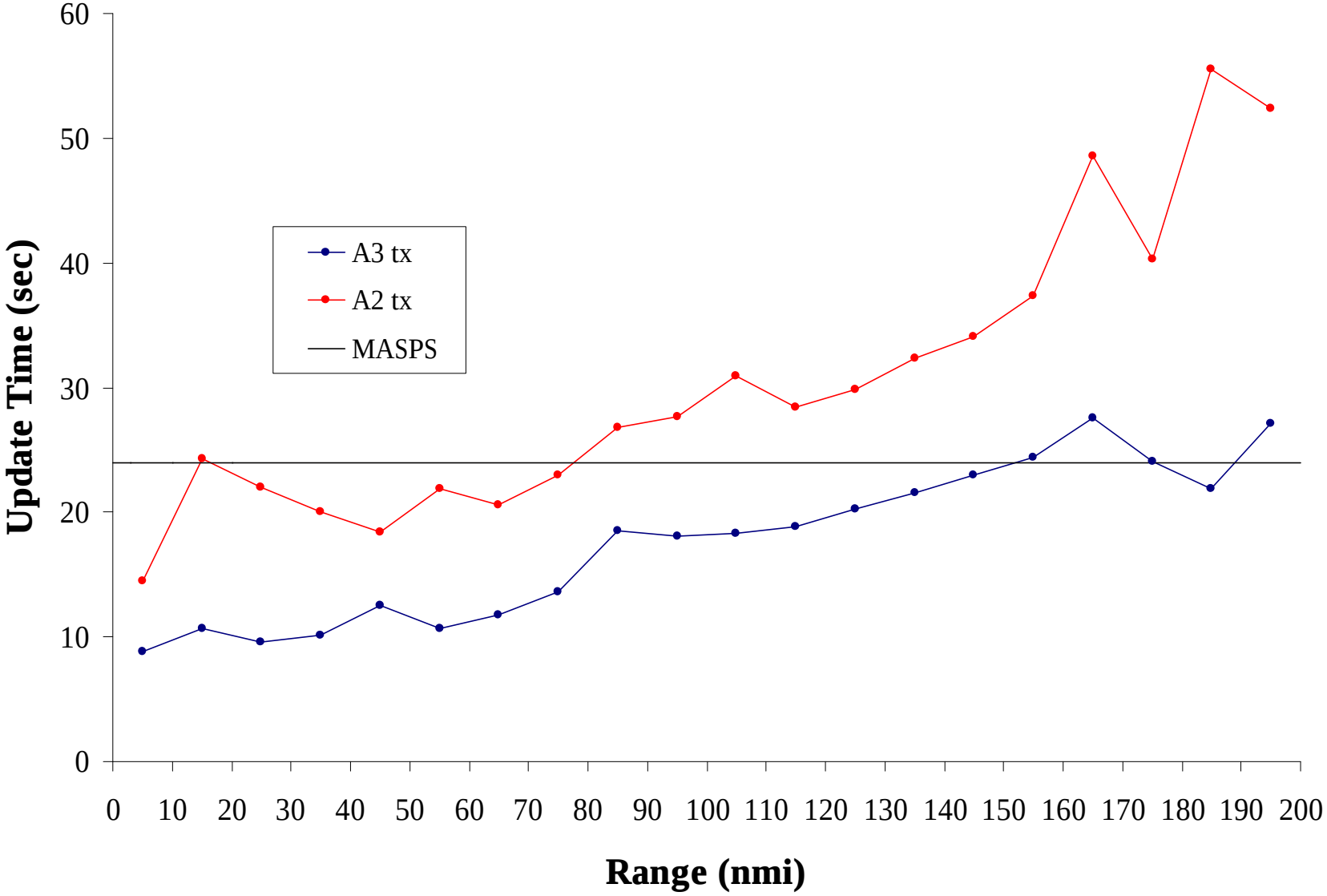
# State Vector Update Rates for Ground Receiver in Europe Co-located With a 10 kW Adj. Channel TACAN Transmitter



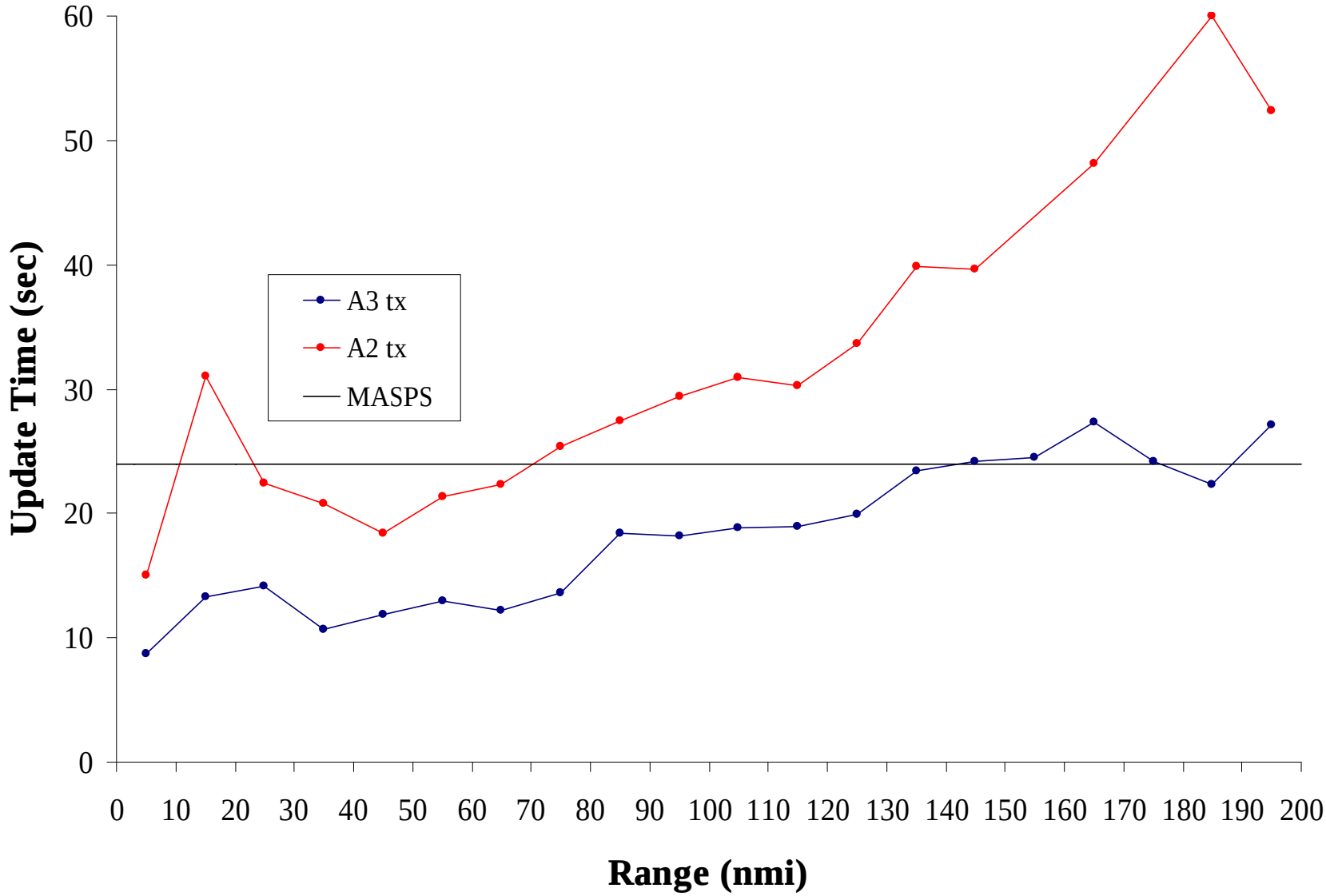
# Altitude Distributions of A2 and A0 Class Over Europe



# TCP Update Rates for Ground Receiver in Europe (no TACAN Transmitter)



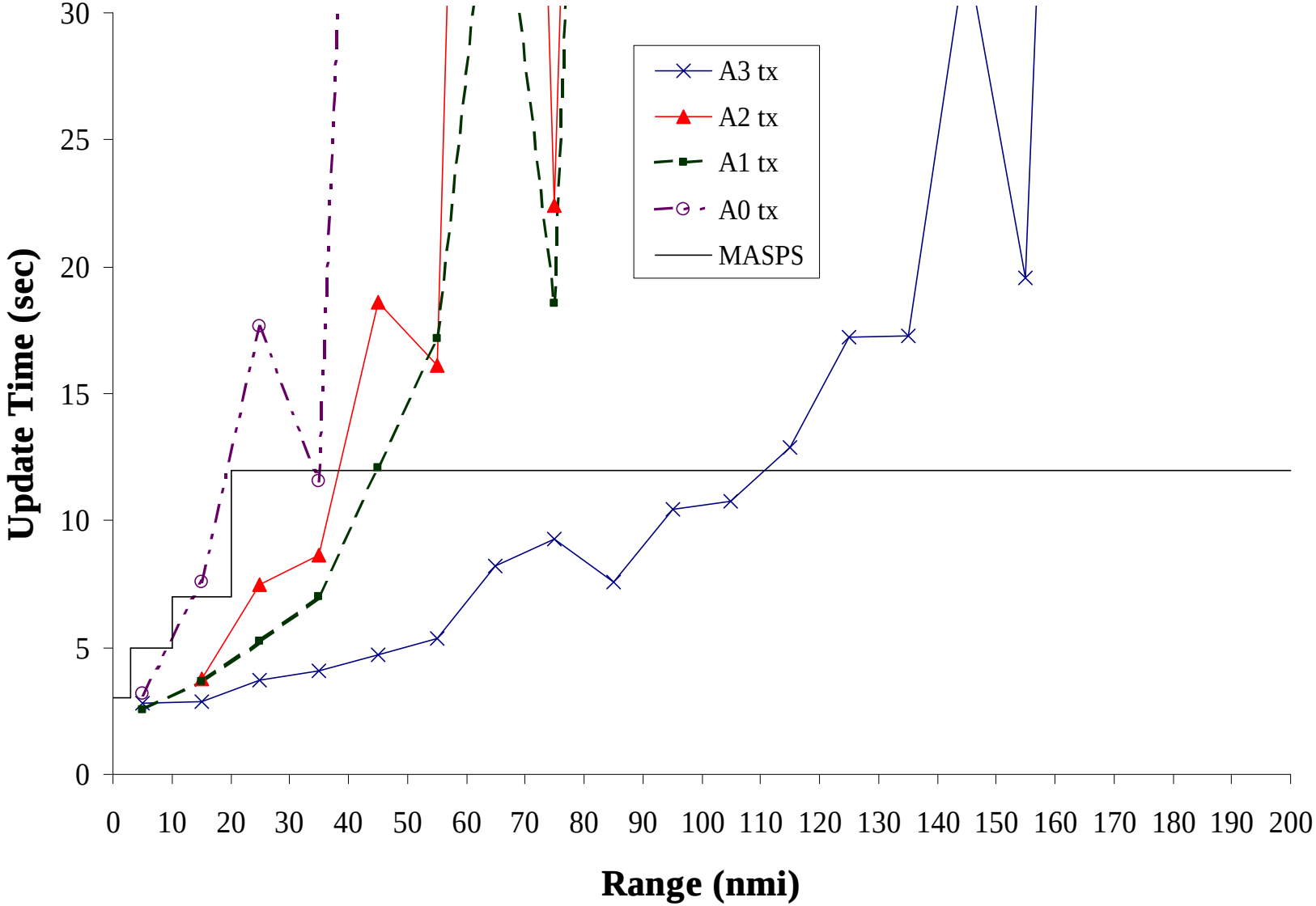
# TCP Update Rates for Ground Receiver in Europe Co-located With a 10 kW Adj. Channel TACAN Transmitter



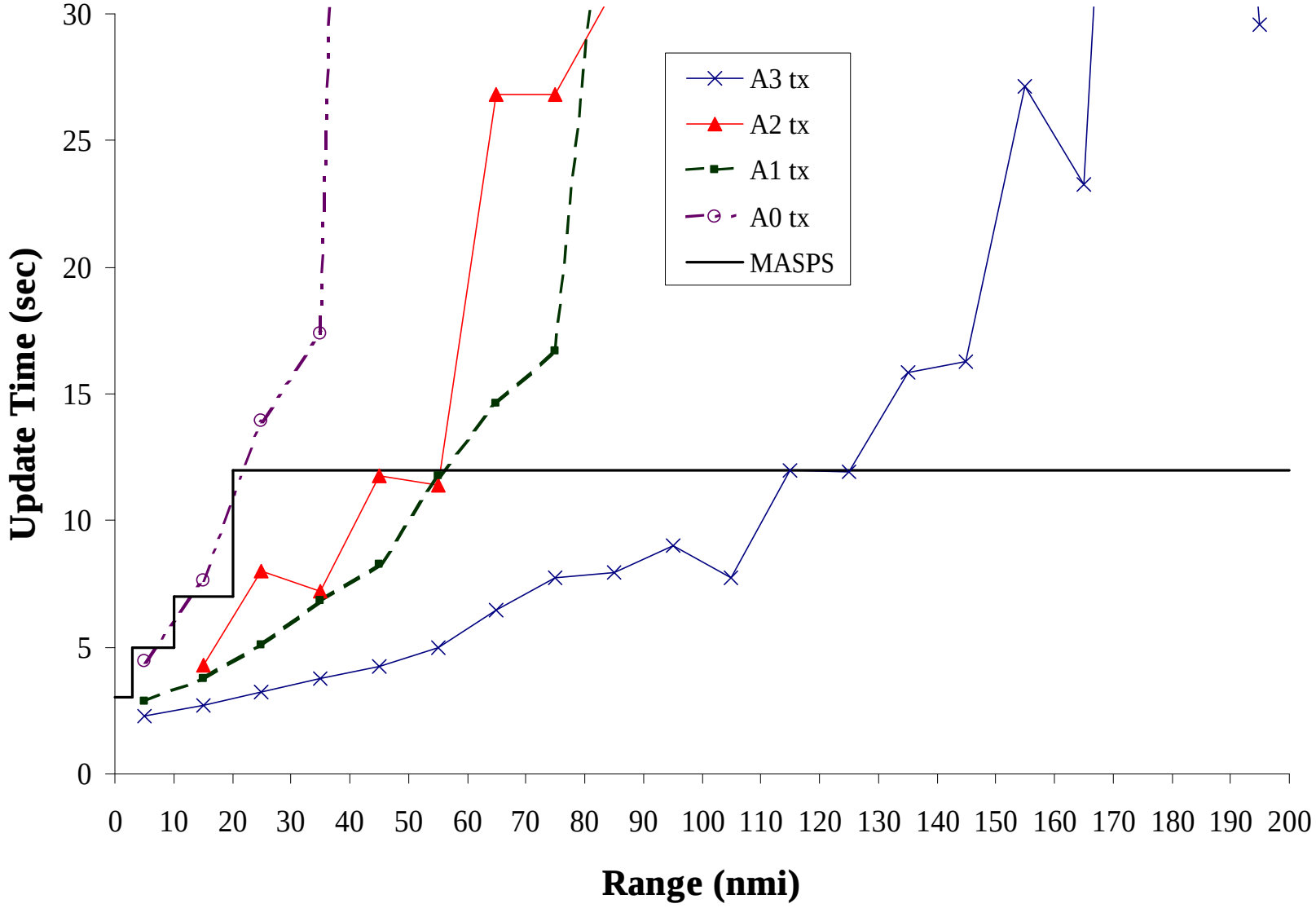
# LA 2020 Assumptions

- LA Basin 2020 Scenario
- JTIDS Baseline “B”
- No DME/TACAN Interference
- A0 class has antenna on bottom of craft only – tx and rx
- Show State Vector and TCP update times for each type of aircraft class transmitters

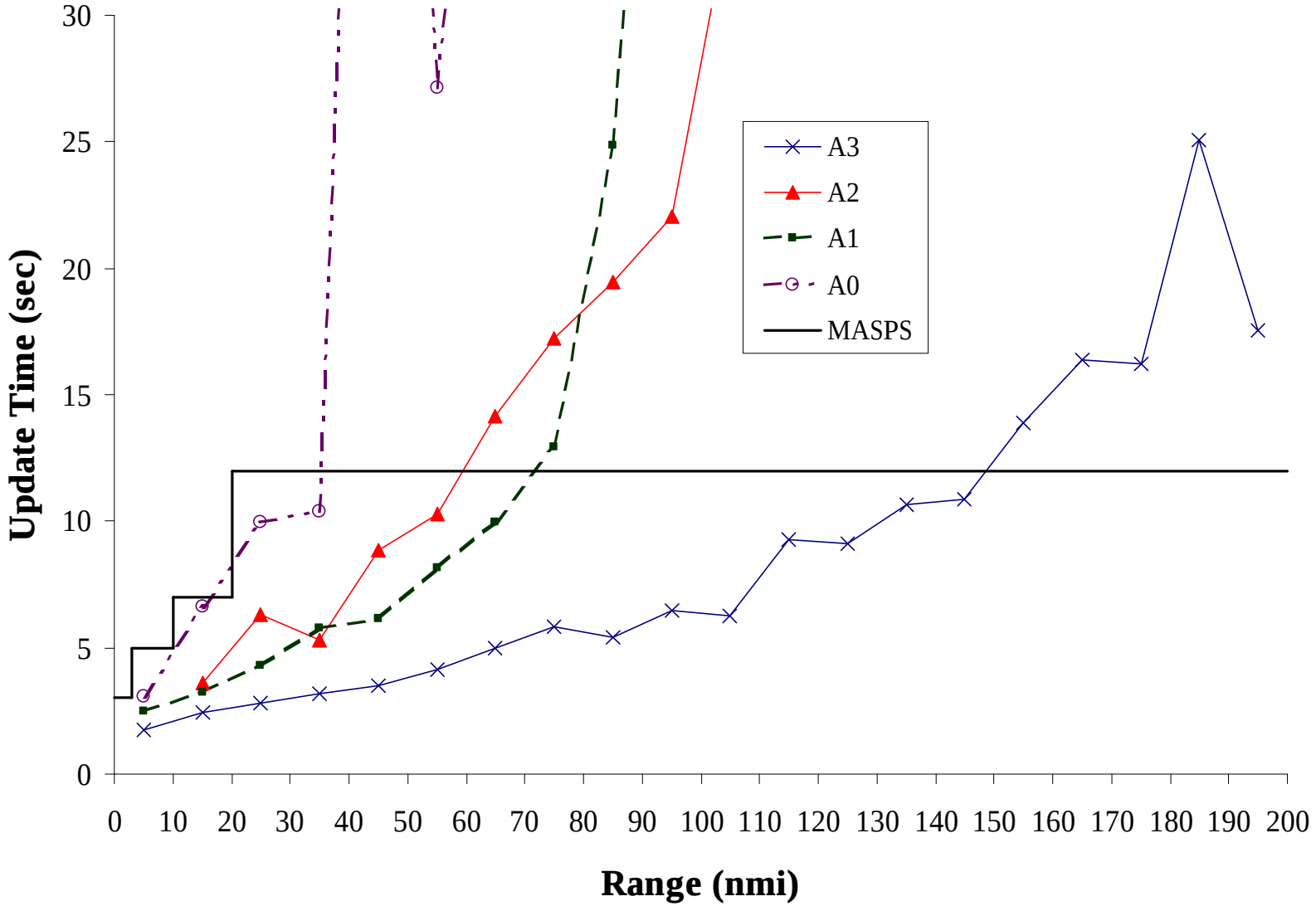
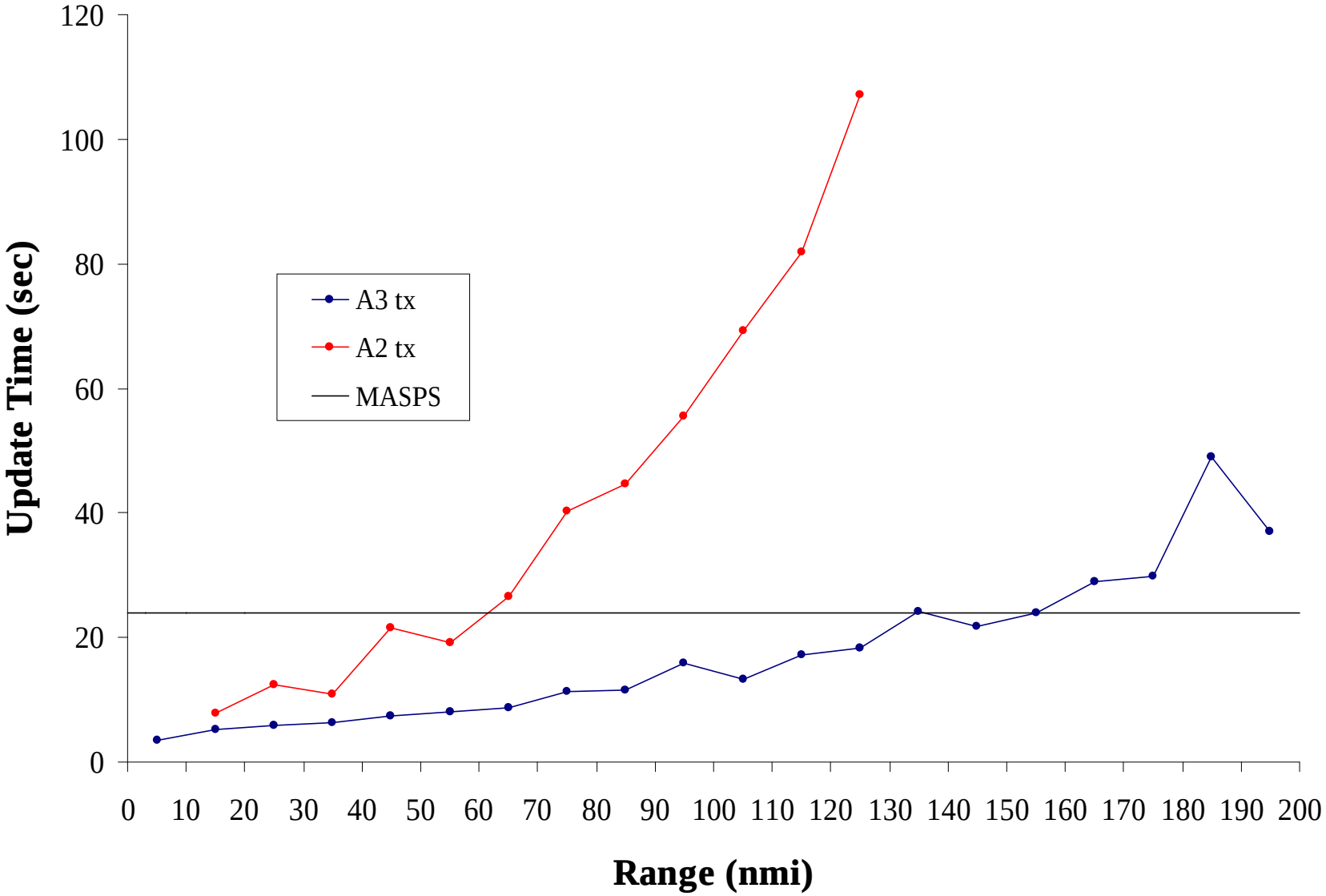
# LA 2020, A0 Bottom Only Observer at FL 150



# LA 2020, A1 Switched Receiver at FL150



# LA 2020, A2 Observer at FL150



# LA 2020, TCP Updates for A3 Observer