

UAT-WP-7-12

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UAT/JTIDS Interference Against DME

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Introduction...

❖ Objective

- To assess the interference conditions against which DME must operate

❖ Scenario

- UAT air scenario is Core Europe (2015)
- UAT ground interference generated from APL ground model
- JTIDS scenario is Baseline B
- DME Channel is 978 MHz
- Aircraft at 40,000 ft

❖ Assumptions

- DME receive filter 3-dB bandwidth is 500 kHz and 20-dB bandwidth is 1 MHz

❖ Approach

- Estimated CDF of received interference level using a 30-second observation interval of UAT and JTIDS interference

Results

