

Evaluation of ITU-R P.1546 propagation model for LoRaWAN applications in a maritime scenario

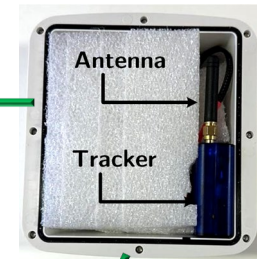
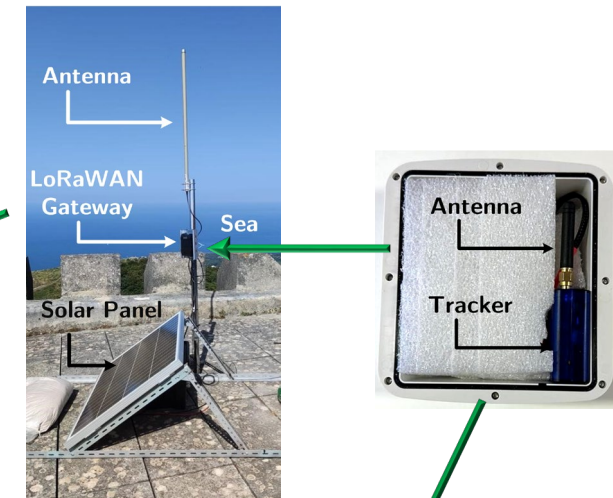
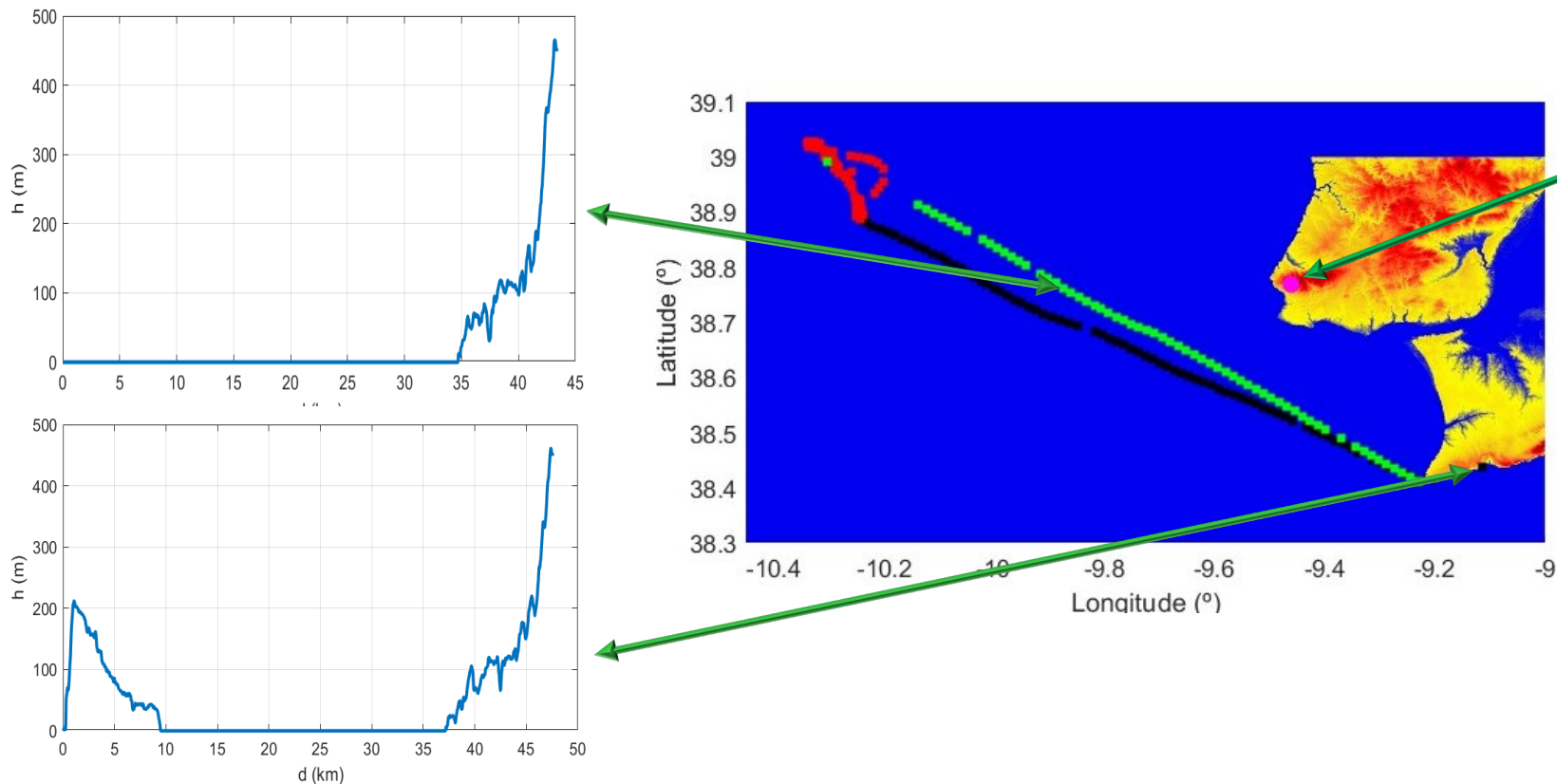
Pedro Francisco, Miguel Guerreiro, Gonçalo Esteves,
Carlos Mendes, João Casaleiro, Nuno Cruz

Instituto Superior de Engenharia de Lisboa



Objective

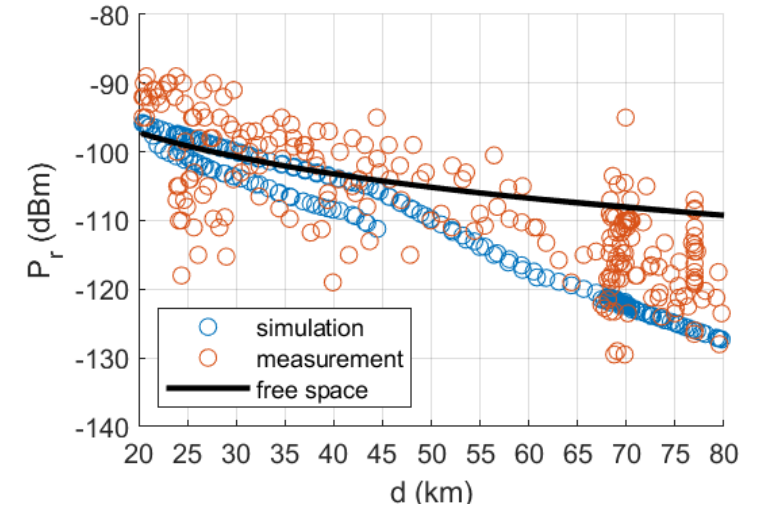
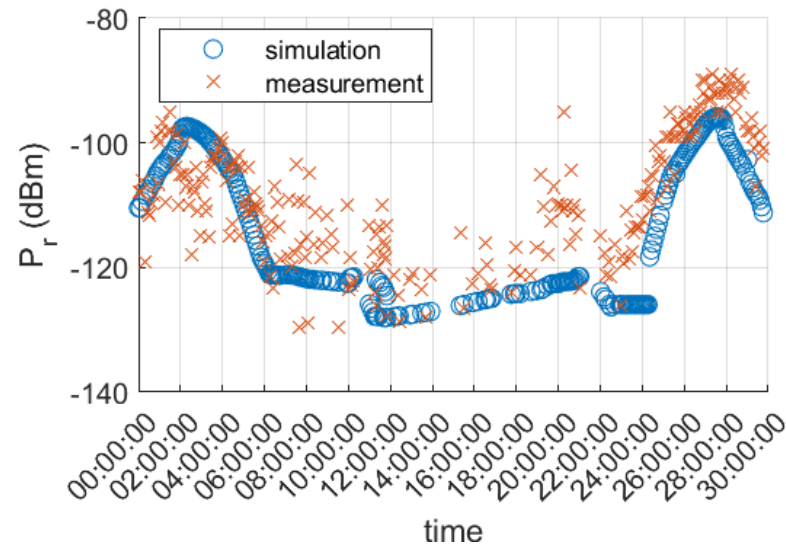
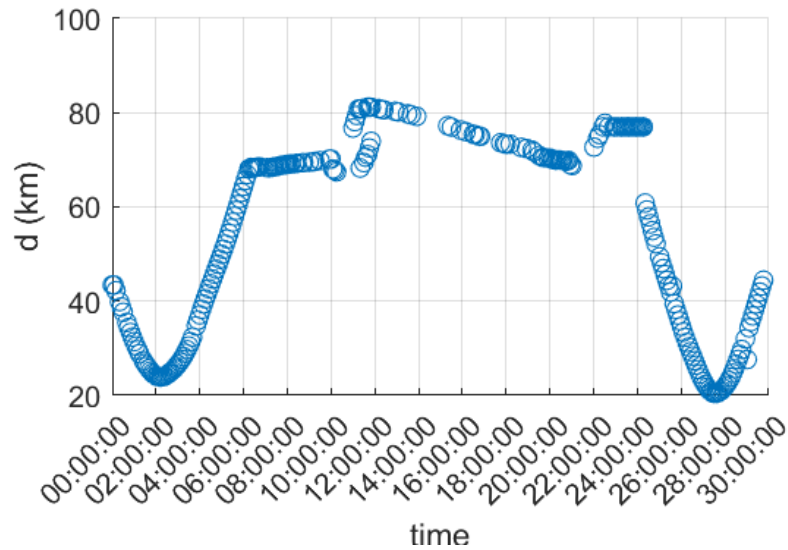
- Predict and measure radio coverage on maritime environment
 - Own implementation of ITU-R P.1546 model



Mixed land sea scenario

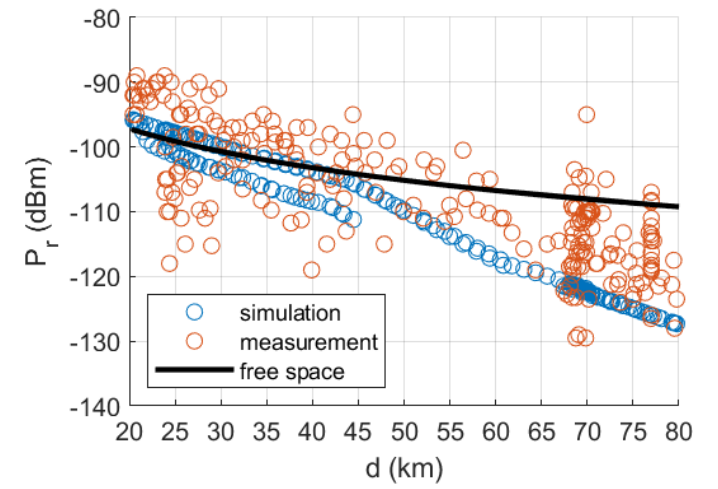
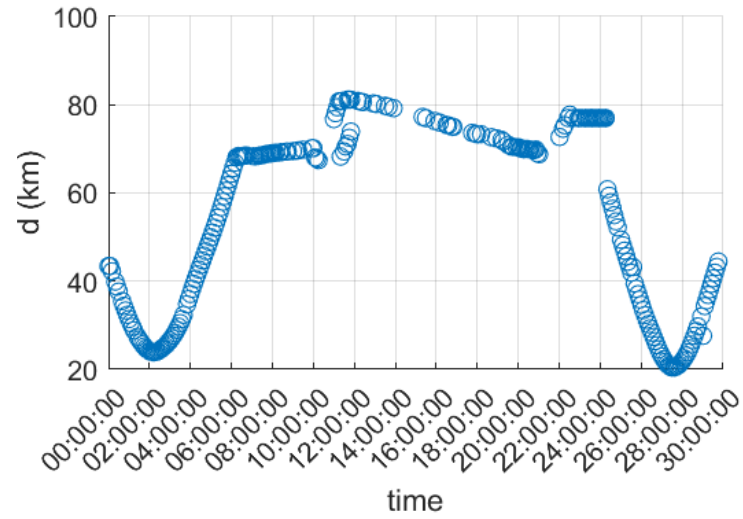
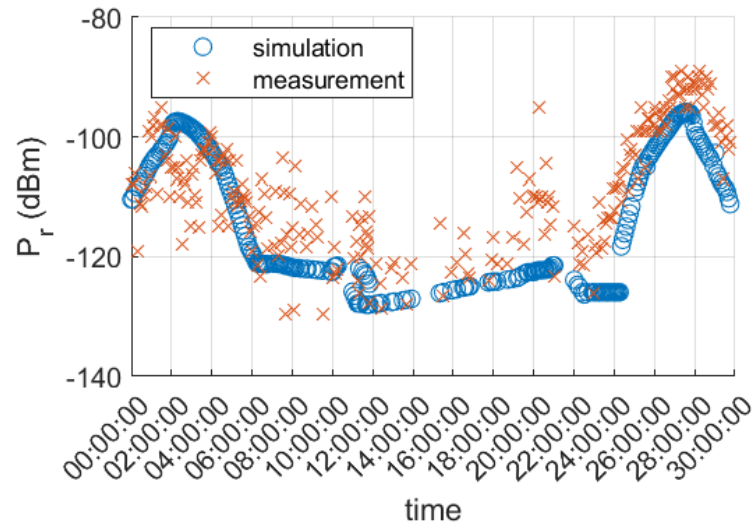
Results

- 30 h measurement campaign
 - distances in range 20km and 80 km
 - one message each 5 minutes



- Good match between perdition and measurements

Thank you



Extras

