

短波帯の電離層反射レイトレーシング
モデルを用いた通信方式

Ling Distance HF Communication
via Ionosphere Reflection

Simulation Model

1. The radio waves interfere with each other at receive point.
2. The irregular structure of the ionosphere has **no movement**.

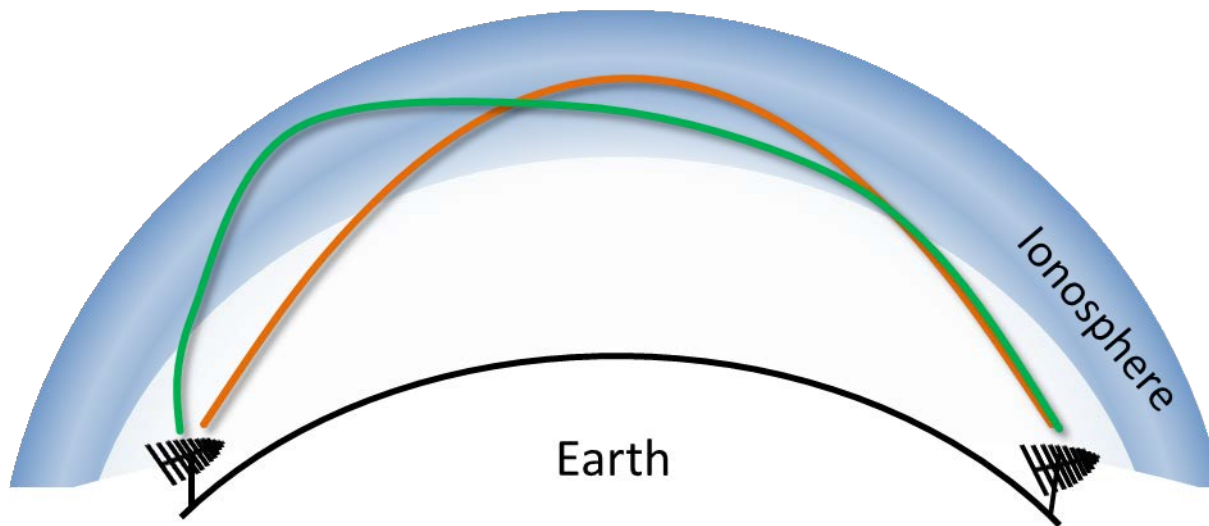


Fig. 5 Simple Overview of the Simulation

Radio Waves Propagation Path

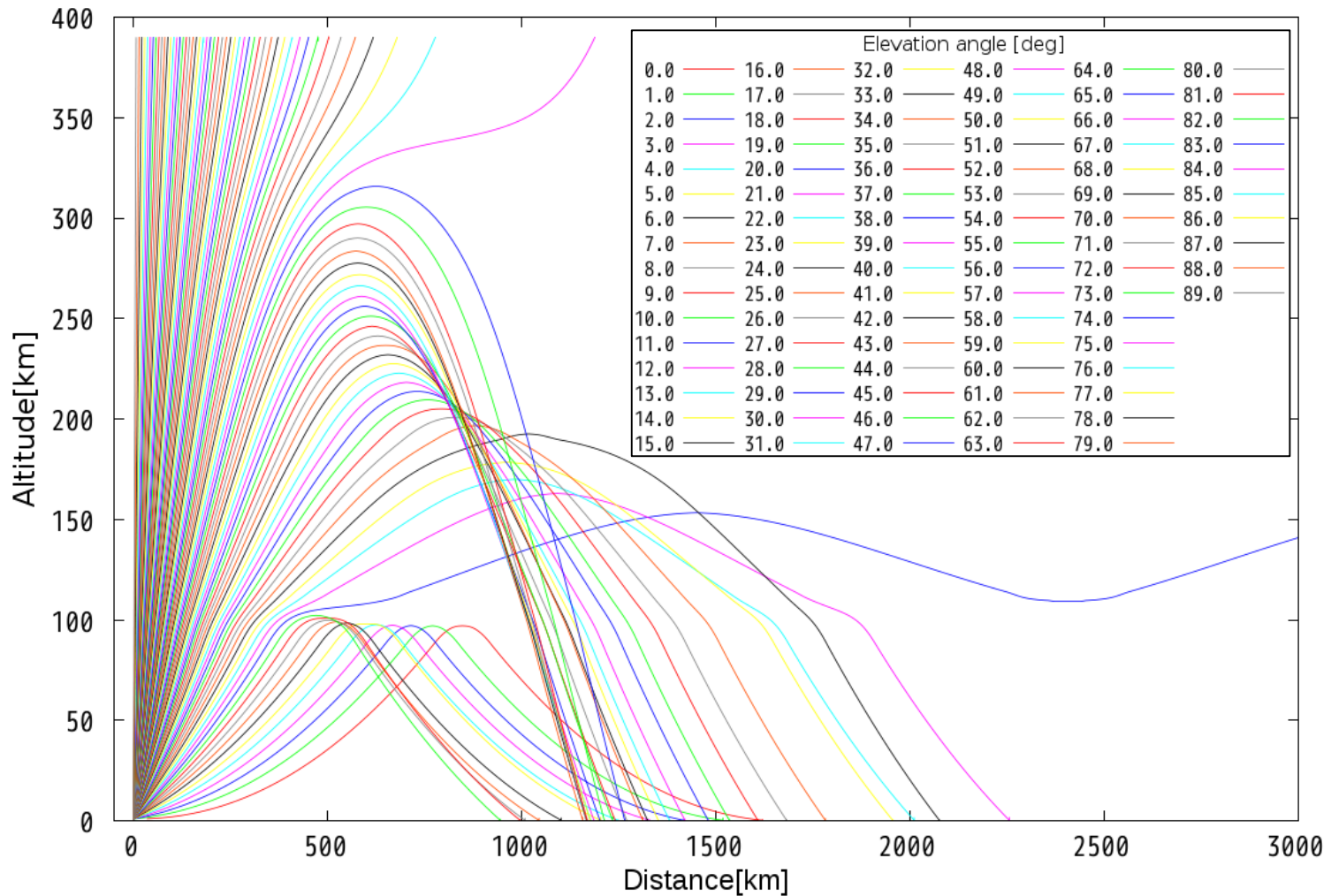


Fig. 9 Radio Wave Propagation Path by Each Elevation (Frequency = 11 MHz)

Simulation Result by Different EDCR Values

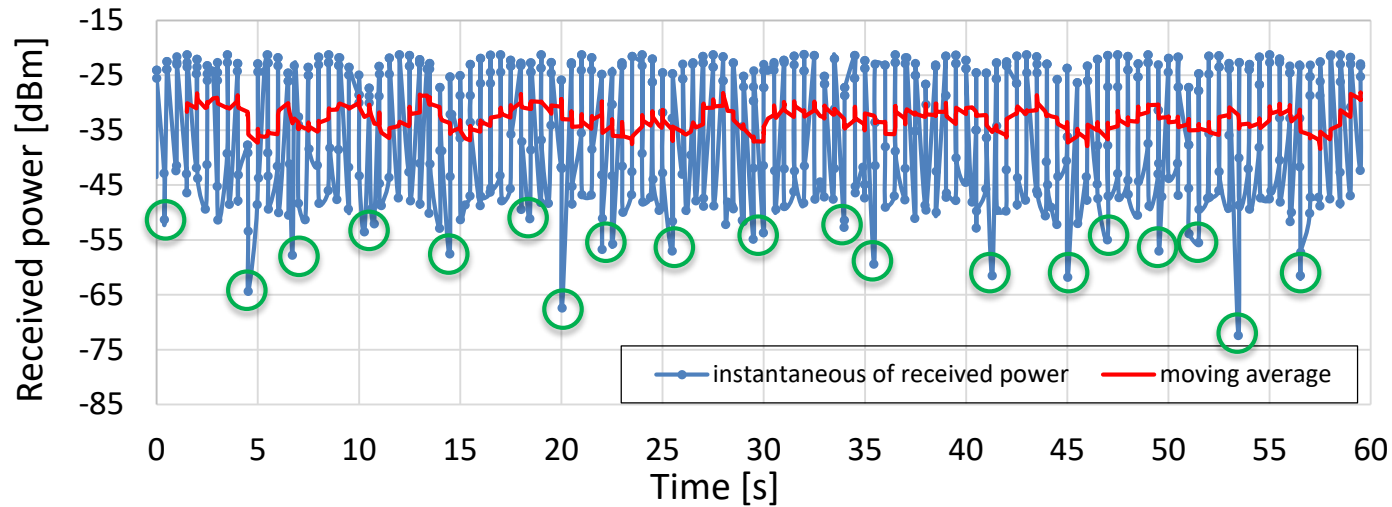


Fig. 10 Received Power (EDCR = 12.5, calculated from 2 waves)

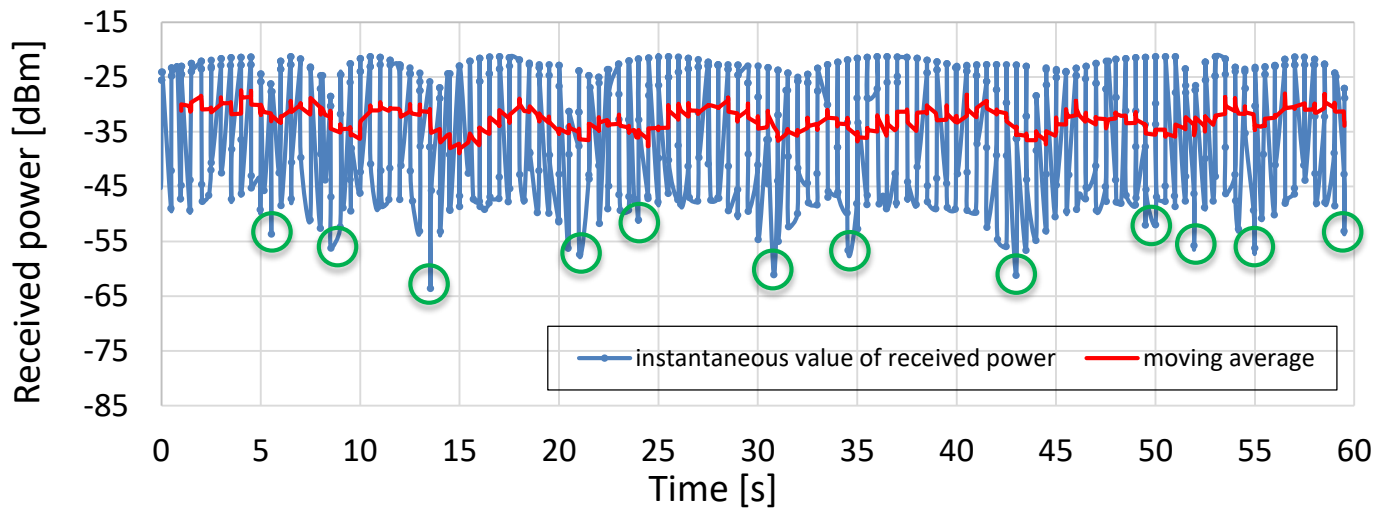


Fig. 11 Received Power (EDCR = 20.8, calculated from 2 waves)