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Experimental propagation modelling without a dedicated transmitter

Richard Maliwatu¹, Albert A. Lysko² and David L. Johnson¹

¹University of Cape Town, Cape Town 7701, South Africa

²Council for Scientific and Industrial Research, Pretoria 0001, South Africa

rmaliwatu@cs.uct.ac.za , alysko@csir.co.za

Abstract

The paper considers usage of an existing TV broadcasting transmitter for analyzing propagation and tuning existing propagation models to local conditions for improved accuracy. A comparison of measured signal strength values with the values predicted by Hata and Longley-Rice models is made in the ultra high frequency band for the Southern Peninsula in Cape Town, South Africa.