Testing the Susceptibility of GNSS Receivers to Radio Frequency Interference [Poster; 2015]

837 Henry Berglund January 8, 2016 Presentations 778

Title: Testing the Susceptibility of GNSS Receivers to Radio Frequency Interference

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Date: 2015

Summary:

To better characterize GNSS receiver susceptibility to more general RF interference, we use a signal generator to provide a Continuous Wave (CW) noise source. We combine the CW noise with the incoming signal from the GNSS antenna before it enters the receiver. We vary the power and frequency of the generated CW noise. Changes in the recorded signal-to-noise measurements are then used to characterize each receivers susceptibility to a CW noise source.

Poster:

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UNAVCO, Boulder, CO

AGU FALL MEETING 2015

Introduction

Normalized L1 SNR	Normalized L2 SNR	Normalized L5 SNR