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X9ANXCAS

To: Andy Newman

From: B. W. Frazier

Subject: Modeling RF Propagation in Maritime Multi-static Engagements

Attachment: Multistatic RF Sensor Networks in Maritime Environments Memorandum

References: See Attachment

1. Traditional RADAR analysis for seeker systems falls apart when moving to bistatic and multistatic engagements. The impact of clutter is skewed by the bistatic angle and we cannot leverage reciprocity to describe multipath reflections. Understanding the statistics of signals received in this configuration is an important step in being able to determine the success of an engagement.
2. The attached memo describes the work done for the Multistatic RF Seeker Network FY18 IRaD that attempts to address these issues.

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