

Space Situational Awareness Environmental Effects Characterization (SEEC) Enabling Concept

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Abstract:

This presentation provides an operators view of the ways and means AFSPC proposes to effectively characterize the actual and predicted effects of the natural environment on red, blue, and gray space systems and services in order to develop decision-quality information supporting space situational awareness.

The presentation will show how JFCC SPACE will be enabled to more effectively protect and maintain US military space capabilities due to the integrated application of environmental data. It shows how tactical level units, such as satellite and radar site operations squadrons will have the ability to more accurately attribute the source of space system anomalies—e.g., determine natural versus man-made causes. It will also present how these units will be enabled to provide the Joint Space Operations Center (JSpOC) an accurate tactical level assessment of the environmental effects situation, and thus enable aggregation of this information to form a more realistic operational level picture. Finally, it will describe how JFCC SPACE units and military space users will be able to more effectively plan for the potential impacts of the environment on specific space system services.