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## Environmental Effects on Space Systems Analysis

### Space Situational Awareness Environmental Effects Fusion System (SEEFS)

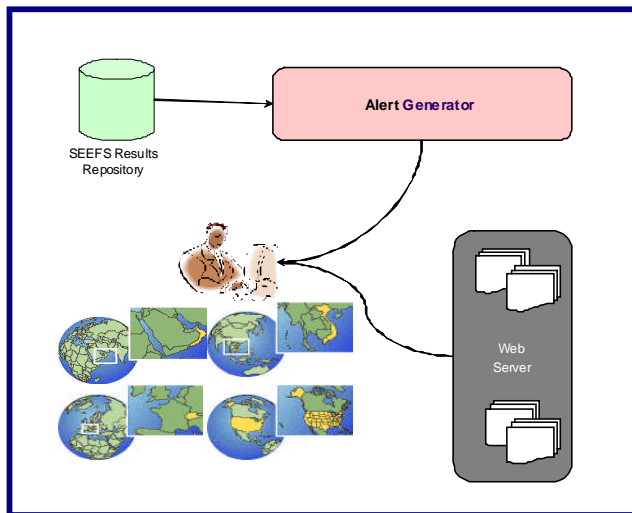
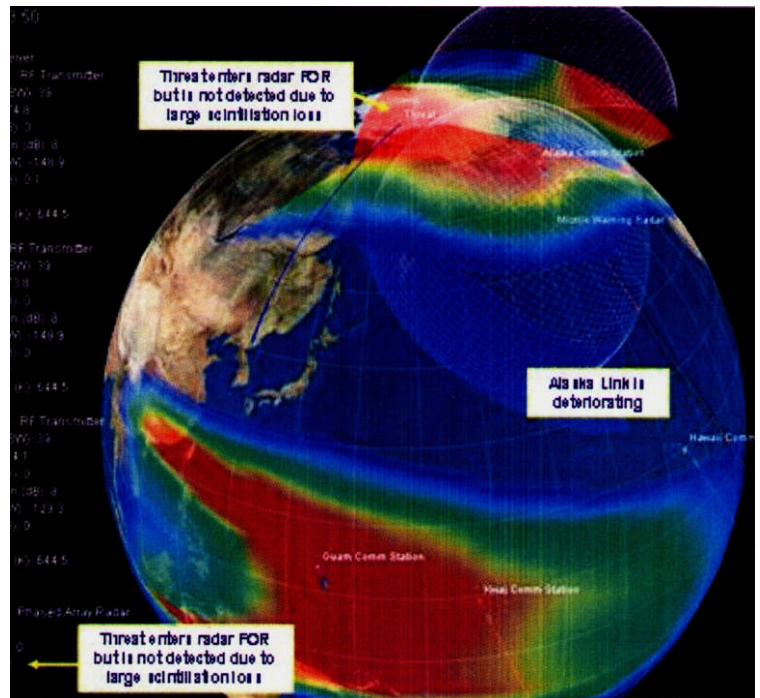
Since December 2005, Colorado Professional Resources (CPR) has been providing hardware and software design, development, simulation modeling, and testing for the Space Situational Awareness (SSA) Environmental Effects Fusion System project. We have Subject Matter Expertise in the area of space environmental effects on Radars, SatCom Terminals and satellites in the form of Solar Radio Burst energy (SorBe, Radar Auroral Clutter (RAC), as well as several other environmental models related to satellite charging and discharging.

#### MISSION

- Create the SEEFS Architecture, to include the system-level SEEFS Architecture software modules, Database procedures and views, Decision Aids modules, and Administrative Graphical User Interface (GUI).

The Space Situational Awareness Environmental Effects Fusion System (SEEFS) Contractor Support Team (CST) develops SEEFS applications for integration, evaluation, and deployment to the Joint Space Operations Center (JSpOC). SEEFS will eventually support the Combatant Commanders' Integrated Command and Control System (CCICCS) and/or the Single Integrated Space Picture (SISP). Space environmental impacts upon DoD systems to combatant commanders, key decision makers, and DoD system operators/users.

The example below shows a typical SEEFS application integrating space weather effects into the Space Situational Awareness (SSA) Picture.



- Specify & forecast space environmental effects on blue/red/gray space systems
  - Satellites
  - Radars
  - SATCOM

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