



M&S Terrain Generation – VBS/2

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Description and Background

The U.S. Army Geospatial Center's (AGC) Joint Experimentation, Test, and Simulation (JETS) Laboratory produces non-standard modeling and simulation (M&S) terrain products to support the Army geospatially and as it pertains to modeling and simulation terrain database applications.

Source Data

JETS Lab engineers use geospatial products acquired from various sources as a foundation for their Modeling and Simulation enabling terrain products. Furthermore, JETS engineers use their geospatial backgrounds to manage, maintain, audit, and edit geospatial data to ensure it aligns with the needs of the requesting activity of the database. JETS engineers leverage ESRI ArcGIS both for data manipulation and storage (maintaining an ESRI SDE Enterprise level Geo-database), Global Mapper, and other industry standard GIS tools. This includes maintaining GIS data in ESRI **SDE** solutions when necessary.

When terrain database consumers do not have their own GIS dataset, our preferred list of data producers include, but are not limited to, AGC, NGA, USGS, Terrain Scenario Generation & Archiving, **NAVO** and other sources for Digital Terrain Elevation Data, Light Detection and Ranging, **FFD**, Shapefiles imagery, etc. Where insufficient source data exists, hand-intensified geo-specific and/or geo-typical GIS data can be created.

VBS/2 Terrain Generation

JETS lab technicians use geospatial data to generation terrain insets in support of VBS/2 based missions. VBS/2 missions regularly include mission training, and rehearsal, and "first-person", engagements.

This terrain can be generated for standalone VBS/2 applications or in support of a larger Live, Virtual, and Constructive context. In these larger, multi-system cases, JETS engineers are capable of creating correlated terrain databases for constructive systems such as **JSAF**, **JCATS**, and OneSAF. Furthermore, correlated CADRG and map products can be created in support of VBS/2 and Battle Command systems integration.

Point of Contact

Celeste Kenamer

Geospatial Acquisition Support Division (GASD) Test and Evaluation (T&E)

703-428-7133

Celeste.kenamer1@us.army.mil

Celeste.kenamer@us.army.smil.mil



U.S. ARMY CORPS OF ENGINEERS – ARMY GEOSPATIAL CENTER

7701 TELEGRAPH RD.

ALEXANDRIA, VA 22315

www.agc.army.mil • www.agc.army.smil.mil • www.agc.ic.gov