Joint Effects Model (JEM)

World Map - Nicrosoft Internet Englance LID X D Message, 8 Not Processed Layers 00A0N093 JA2 00910093.JA2 Animation Time Selector 009Y7033.JA2 14326-10 0091/60F3 JA2 • II I . . . 0091/50F3 JA2 10726-12 0090 R033 JA2 18726-13 009G00E3 JA2 STE-14 0090P003_JA2 67E-15 009GN043_JA2 749376-15 00917083.JA2 00916063.JA2 00015043 JA2 00914023.JA2 20 3D CMAP 00913080.3A2 006H/F063_JA2 D08H/0083-JA2 006H/P0E3_JA2 9.50 USIMIF 00643043.342 OPENSOUTHERN MATCH.IF DEEKMDA3 JA2 MSOID/ENCHEMBIA0C/#222004/V 006H1043.JA2 GEODATLMINELAJ 10/110305258P2002H 000490C3.JA2 OROEDFTIAOCI/FACCUE/AR/CONDITIONNA/A/LILAFI11" 000400L3 JA2 NECEVENT/BOIND/R 20/F ALFANATUS/CROSHCE/T81/ CAL 630747063 DELTA/ATT 110328252P2002/110329252P2002/ C0646083 JA2 FORTROT/262212M0436912E /EE/ C0645063 JA2 00644005 145 Hap: 125.48 , 36.23 - Image: 242 , 291 - ScaleFactor: 0.0007916504645875017 Local intranet Hazard (A) Run Parancetero Results Active: Anthron Aerial Spray User: VP User 102331Z OCT2003 Ratus: Ready

Protects soldiers and the public against nuclear, biological, and chemical and toxic industrial chemical/toxic industrial materiel weapons, devices, and incidents.



The Joint Effects Model (JEM) is a generalpurpose, accredited model for predicting hazards associated with the release of nuclear, biological, and chemical (NBC) and toxic industrial chemical (TIC)/toxic industrial materiel (TIM) contaminants into the environment. Once fielded, JEM will be the standardized Department of Defense NBC hazard prediction model. JEM will be capable of modeling hazards in a variety of scenarios including: counterforce, passive defense, accident and/or incidents, high altitude releases, urban NBC environments, building interiors, and human performance degradation. The unclassified version of JEM will also support homeland defense through use by civil authorities.

NBC models.

DESCRIPTION AND SPECIFICATIONS

The JEM program will use an evolutionary acquisition approach for design, development, testing, and fielding. Upon completion of an independent model analysis, the JEM interface, credibility, and performance requirements will be refined in an iterative process through a series of design reviews, using cost-effective graphical storyboarding prior to actual implementation of the algorithms and data harvested from the legacy

PROGRAM STATUS

- **1QFY05** JEM developmental test and verification/validation
- **3QFY05** JEM operational assesment

PROJECTED ACTIVITIES

- FY06 JEM operational test
- FYO6 JEM Milestone C, full-rate production
- 4QFY06 JEM initial operational capability



CONTRACTORS Northrop Grumman Information Technology (San Diego, CA)

Modernization

• System Development and Demonstration