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[Three-Dimensional Cloud Visualization Based on Satellite Imagery](#) Dec 1992 73 pages

Authors: [Kevin L. Stone](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

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This thesis presents three dimensional visualizations of **cloud scenes** created with scientific visualization software implemented on high-performance graphics workstations. **Cloud scenes** are constructed for four separate cases, consisting of low ... it crossed southern Florida. The user interacts with the **cloud scenes**, on the computer screen, allowing the clouds to ... integrate satellite information with sounding data to construct **cloud** tops. Techniques have been developed to ... of using a constant height for all **cloud** bases in the **cloud** scene. Meteorological three-dimensional graphics, Three- ...

[Support for NAWC-China Lake SSGM Cloud Generation Utility](#) Feb 1999 6 pages

Authors: [SCHAFFER CORP ARLINGTON VA](#)

Full Text

The objective of this task is to provide the UAV-BPI IRST development effort with a utility for producing **cloud scenes** for use in the Synthetic Scene Generation Model (SSGM). As currently configured, SSGM comes with only a handful of **cloud scenes**, which are not necessarily adequate to fully represent the range of **cloud** conditions in the theaters of interest. The **cloud** generation utility produced under this effort utilizes historical **cloud** coverage data for the regions of interest to produce **cloud scenes** representative of the location and time of year.

[Cloud Simulation Using HEFeS-Hierarchical Environmental Feature Structure](#) Apr 11, 1996 36 pages

Authors: [Albert R. Boehm](#); [J. H. Willand](#); [HUGHES STX CORP LEXINGTON MA](#)

Full Text

The goal is to rapidly simulate **cloud scenes** including radiances using a large variety of **cloud** structure associated with a given area and season. HEFeS uses a hierarchy of climate objects for nine different scales of motion: climate regime, planetary wave, synoptic feature, meso feature, cluster, cell, sheet, voxel, and droplet. Rather than store all this information for viewing from different angles, the reproducibility property of pseudorandom number generators is used to index location and properties of each object. This "Stochastic Indexing" ...

[Analysis of Cloud-Free Line-of-Sight Probability Calculations](#) Mar 2001 76 pages

Authors: [Joseph J. Golemboski III](#); [AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH](#)

Full Text

... of photographs taken over Columbia, Missouri and forecasted **cloud** amounts rather than climatological values. The second was a new approach using the **Cloud** Scene Simulation Model developed by Phillips Laboratory. **Cloud scenes** were generated using forecasted **cloud** fields, meteorological inputs, and thirty random numbers. Water content ... for both methods. Stratus, stratocumulus, cumulus, and altocumulus **cloud** types were independently examined with the CSSM generated **cloud scenes**. ... probabilities by as much as twelve per cent with horizontal **cloud** coverage ranging from 30 to 80 per cent. CSSM ...

[Weather Tutor I: Stability Basics](#) Aug 1993 19 pages

Authors: [AIR WEATHER SERVICE KEESLER AFB MS DETACHMENT 5](#)

Full Text

... parts: the first familiarizes students with the relationships between atmospheric variables. The second correlates these variables to atmospheric stability using the parcel theory and the Equation of State. The third and final part demonstrates the relationships of stability and moisture content with corresponding **cloud scenes**. An entry knowledge test is required before starting the lesson

[Two Models for Predicting the Probability of a Cloud-Free Line-of-Sight](#) Nov 8, 2002 54 pages

Authors: [Susan A. Triantafillou](#); [Guy P. Seeley](#); [RADEX INC BEDFORD MA](#)

Full Text

... missile or other object. The models, which account for various **cloud** conditions and zenith angles, are suitable for military training One approach uses a set of detailed models to generate a **cloud** scene and randomly place missiles within it. A ... PCFLOS. The second approach is a simplified model that constructs two-dimensional **scenes** containing rectangular clouds. The fraction of area that remains visible between clouds from a collection of **scenes** is the PCFLOS. This calculation relies on **cloud** metrics that are evaluated in consideration of meteorological observations and then tuned to improve ...

[Analysis of the Applicability of Video Segmentation to Unmanned Aerial Vehicle Surveillance Video](#) Mar 1999 109 pages

Authors: [Bradley L. Pyburn](#); [AIR FORCE INST OF TECH WRIGHT-PATTERSONAFB OH SCHOOL OF ENGINEERING](#)

[Full Text](#)

... containing visual effects such as abrupt camera changes, camera zooms, motion (rapid and gradual), and **cloud** cover while varying the frame rate from 5 fps to 30 fps. An analysis of the results is performed to compare actual versus expected outcomes, similar sequences, and **scenes** with motion, along with explaining false positives/anomalies. Although the frame rate variation and analysis of the **scenes** with **cloud** cover are inconclusive, applying the edge detection segmentation algorithm to abrupt changes, rapid motion, and camera zooms produced favorable results, as these were all ...

[Investigation of Emissive Smoke](#)

Jun 2006

129 pages

Authors: [Robert E. Turner](#); [SCIENCE APPLICATIONS INTERNATIONAL CORP ABINGDON MD](#)

[Full Text](#)

... which sources of radiation consist of the internal thermal radiation from an ambient medium as well as from isolated flares. The distribution of the flares in the **cloud** is in a regular, three-dimensional lattice and is uniform throughout. The model is applicable to the spectral region from the near ultraviolet to the microwave. This smoke **cloud** model can be used in realistic **scenes** using external atmospheric conditions and the optical and geometric properties of clouds, flares, targets, and a background. The model is ...

[Three Dimensional Visualization of a Coastal Meoscale Model](#)

Dec 1993

71 pages

Authors: [Mark R. Sampson](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

[Full Text](#)

... at 30 minute time steps. The NPS/NRL model is centered on the California coastal region. Using the graphical software package, VIS-5D, three-dimensional **scenes** are developed that show the interrelation of model parameters which aid in understanding model output. The visualization is used to evaluate wind flow, temperature and moisture patterns, shortwave and longwave radiation parameterization, and **cloud** simulations for the time period 0000 UTC 02 May 1990 to 1200 UTC 03 May 1990. Additionally, model output is used to compute tactical ...

[Sea and Sky Infrared Radiances Near the Horizon](#)

Jun 1989

29 pages

Authors: [Herbert G. Hughes](#); [NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA](#)

[Full Text](#)

...) available with the AGA allowed the mean equivalent blackbody temperatures corresponding to an area 1 degree above and 1 degree below the horizon in the **scenes** imaged to be determined during different meteorological and surface-wind- speed conditions. For this data set (18 thermograms), the mean sea temperatures differed ... differences were found to decrease with increasing wind speed. In contrast, the mean sea and sky temperatures measured during stratus **cloud** conditions were the same. The cloud-free data are used to evaluate background radiance algorithms, which must be used in the absence of ...

[Day-24: Energy Balance Model for Infrared Scene Generation](#)

Apr 2002

38 pages

Authors: [Robert A. Sutherland](#); [ARMY RESEARCH LAB ADELPHI MD](#)

[Full Text](#)

We expand and modify the Rachele-Tunick "energy balance concept to include infrared thermal **scenes** and dynamic effects over time periods of several diurnal cycles. The model requires an initial starting "IR image" in the form of a two-dimensional ... from empirical models. Meteorological inputs are required at only one key location inside the scene area. These inputs include air temperature, wind speed, relative humidity, **cloud** cover, and subsurface "deep soil" temperature. Incoming shortwave solar/sky radiation and longwave sky radiation are optional inputs. Comparisons with data from field ...

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