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[Extensible 3D \(X3D\) Graphics Clouds for Geographic Information Systems](#) Mar 2008 101 pages

Authors: [Darren W. Murphy](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

Full Text

This research evaluates the **production** of three dimensional (3D) clouds for geospatial viewing programs such as Google Earth, NASA World Wind, and X3D Earth. This thesis took advantage of iso-standard X3D ... model data. Various visualization demonstration results are presented that can be rendered and navigated in real time. Further research and development is needed to match a **cloud** typing model output with a particular method of 3D **cloud production**. Data-driven adaptation and **production** of **cloud** models for web-based delivery is an achievable capability given continued research and development.

[Acidity Dependence on Cloud Drop Sizes, Enhancement of Sulfate Production in Clouds and Its Climatic Implications from Cloud Water Collected at a Remote Eastern U.S. Site](#) Sep 10, 1995 81 pages

Authors: [Bryan D. Logie](#); [AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH](#)

Full Text

Two different **cloud** water collectors were operated simultaneously on a mountain-top platform in Mt. Mitchell State Park, North ... concentrations, and liquid water collection efficiencies during the summer, 1994. The **cloud** water collectors used were the Daube California Institute of Technology ... Atmospheric Sciences Research Center string collector. Both collectors transfer **cloud** water into their sampling bottles by a process analogous to the collision-coalescence process in precipitation initiation by which **cloud** droplets accumulate on the collector strings and are then transferred to ...

[Suppression of Marine Stratocumulus Clouds Due to Reduced Cloud Condensation Nuclei](#) Sep 2000 68 pages

Authors: [Neil T. Smith](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

Full Text

... dissipation of clouds in the marine boundary layer (MBL). **Cloud** rifts occasionally mark a distinct exception to the ... removal of CCN by nucleation scavenging and drizzle. A **cloud** rift feature embedded in marine stratocumulus was observed ... form where low aerosol concentrations enhance drizzle **production**. Marine boundary layer aerosol concentrations in the ... rift were only 1/6 that observed below the background stratocumulus. **Cloud** droplets in rift clouds were 3-5 microns ... can be accounted for in drizzle droplets and the disruption of the **cloud** layer evolves in a manner described by Ackerman (1993 ...

[Mid-Infrared Spectroscopy of Carbon Stars in the Small Magellanic Cloud](#) Jul 10, 2006 14 pages

Authors: [G. C. Sloan](#); [K. E. Kraemer](#); [M. Matsuura](#); [P. R. Wood](#); [S. D. Price](#); [M. P. Egan](#); [AIR FORCE RESEARCH LAB HANSCOM AFB MA SPACE VEHICLES DIRECTORATE](#)

Full Text

We have observed a sample of 36 objects in the Small Magellanic **Cloud** (SMC) with the Infrared Spectrometer on the Spitzer Space Telescope. Of these sources, 19 are carbon stars. An examination of the near- and mid-infrared photometry shows that the carbon-rich and ... All these results are consistent with the lower metallicity in the SMC. The lower abundance of SiC grains in the SMC may result in less efficient carbon-rich dust **production**, which could explain the excess C<sub>2</sub>H<sub>2</sub> gas seen in the spectra. The sources in the SMC with the strongest SiC dust emission tend to have redder infrared colors ...

[GROMET 2. Rainfall Augmentation in the Philippine Islands](#) May 1971 135 pages

Authors: [P. St.-Amand](#); [D. W. Reed](#); [T. L. Wright](#); [S. D. Elliott](#); [NAVAL WEAPONS CENTER CHINA LAKE CA](#)

Full Text

... severe drought in the Philippine Islands during 1968 and 1969 led the Philippine Government to try **cloud** seeding as a means of rainfall augmentation. With the help of the United States, a silver iodide seeding ... judicial placement and timing of seeding events individual clouds were organized into larger **cloud** systems. Rainfall estimated as at least 3 x 10 to the 10th power cubic meters of water fell ... at least in part, from the project included marked improvement in the agriculture, increased sugar **production** amounting to 43 million U.S. dollars, and augmented crops of rice and corn sufficient to ...

[Propagation of High Power Pulses of 10.6 micrometers Radiation from A CO2 TEA Laser of Novel Design through Clouds Produced by Adiabatic Expansion in the Laboratory](#) Jul 1976 99 pages

Authors: [P. F. Browne](#); [P. M. Webber](#); [UNIVERSITY OF MANCHESTER INST OF SCIENCE AND TECHNOLOGY \(UNITED KINGDOM\)](#)

... preionization delivering typically 25J pulses of duration 0.1 microsecond and beam cross section 20 per sq cm; (2) the **production** of clouds in the laboratory by adiabatic expansion of compressed gas in a 300 l glass chamber and the measurement of the **cloud** parameters (liquid water content, drop radius); (3) measurements of attenuation by such clouds of TEA laser pulses of the above type and also measurement of partial **cloud** clearing by a CW 10.6 micrometer beam (by recording the change in attenuation of a collinear He-Ne beam ...

[Full Text](#)

#### [An Application of an Explicit Microphysics Mesoscale Model to a Regional Icing](#)

Mar 24, 1994

14 pages

##### [Event](#)

Authors: [George D. Modica](#); [Scot T. Heckman](#); [Roy M. Rasmussen](#); [PHILLIPS LAB HANSCOM AFB MA](#)

... model includes an efficient ice-water saturation adjustment and a simple procedure to create or remove **cloud** water or ice. The objective was to determine whether such a model could provide deterministic forecasts of ... produced a thin (approx. 1-2 km deep) supercooled liquid water (SLW) **cloud** that was in good agreement with observations in terms of initiation, duration, liquid water content, and ... Results of the simulation also suggest that slantwise ascent can be an important component in the **production** of SLW. Aircraft icing, Microphysics, Numerical weather prediction, WINTER ICING and STORMS ...

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#### [Explosibility of Energetic Material Dusts](#)

Jan 1981

168 pages

Authors: [George Patino Jr.](#); [J. W. Gehring](#); [G. J. Friesenhahn](#); [W. T. Moore](#); [P. Lu](#); [HAZARDS RESEARCH CORP ROCKAWAY NJ](#)

... was performed by different contractors. Hazard Research Corporation performed an experimental program to investigate the effects of particle size, dust **cloud** concentration, and relative humidity on the minimum concentration for explosion, minimum ignition energy and minimum ignition temperature of M-1 and ... sizes. The Energetics Materials Division, LCWSL, ARRADCOM collected dust samples from representative sites along explosive and propellant **production** lines at several Army Ammunition Plants and determined whether dust hazards existed. Dynamic flow characteristics for various dust concentrations ...

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#### [Shiptrack Detection Algorithm Study](#)

Jun 1992

104 pages

Authors: [Vincent F. Giampaolo](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

Shiptracks are known to be a relatively common phenomenon, often appearing in AVHRR channel 3 imagery as anomalous, curvilinear **cloud** lines. Despite their significance to remote ship surveillance studies, the formation mechanisms responsible for shiptrack **production** are still largely unknown and their specific characteristics still undefined. A shiptrack detection algorithm being developed at the Naval Postgraduate School seeks to objectively detect and locate ...

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#### [Computer Models Used by AFGWC and NMC for Weather Analysis and Forecasting](#)

Aug 1992

79 pages

Authors: [Richard J. Conklin](#); [AIR FORCE GLOBAL WEATHER CENTRAL OFFUTT AFB NE](#)

... Global Spectral Model (GSM) the AFGWC Real-Time Nephanalysis (RTNEPH); the AFGWC High Resolution Analysis (HIRAS) models; the AFGWC Five- Layer **cloud** forecast model (5-LAYER); the National Meteorological Center (NMC) Nested Grid Model (NGM); and the NMC Aviation/Medium Range Forecast (AVN/ ... grids and tells how the grids are built. Strengths and weaknesses of the various models are discussed, along with AFGWC and NMC **production** cycles. Meteorology, Weather, Forecasting, Computers, Supercomputers, Computer programs, Models, Analysis, Computer analysis, Numerical analysis, Cray, Grids, Resolution ...

[Full Text](#)

#### [The Initiation of Lightning and the Growth of Electric Fields in Thunderstorms](#)

Dec 1993

60 pages

Authors: [John Latham](#); [UNIVERSITY OF MANCHESTER INST OF SCIENCE AND TECHNOLOGY \(UNITED KINGDOM\) DEPT OF PHYSICS](#)

... laboratory experiments have shown that the most effective methods of lightning initiation are likely to involve supercooled raindrops, with threshold fields around 300kV/m. A new model of thundercloud electrification and lightning **production** has been developed, from which it is possible to deduce the sensitivity of lightning frequency to meteorological and **cloud** microphysical parameters. Lightning, Ice, Corona, Electric field.

[Full Text](#)

#### [Low-Frequency Resonance Scattering from Acoustically Compact Bubble Clouds](#)

Jan 22, 1996

349 pages

Authors: [Ronald A. Roy](#); [William M. Carey](#); [UNIV OF WASHINGTON SEATTLE APPLIED PHYSICS LAB](#)

... produced when waves break and are convected to depth. The fundamental question is: what role, if any, is played by these microbubble plumes in the **production** of sound near the sea surface in the low (20 Hz) to mid (2 kHz) frequency range? Measurements of ocean ambient noise levels show ... the lowest order mode being a monopole which can be modeled as the volumetric pulsation of an acoustically compact sphere. Moreover, when such a **cloud** is located near the sea surface, a dipole radiation pattern results. Consequently, the scattered intensity is a sensitive function of depth, frequency, surface ...

[Full Text](#)

#### [Aerosol Physicochemistry at Christmas Island: Links to the Oceanic Sulfur Cycle](#)

Feb 24, 1997

9 pages

Authors: [Antony D. Clarke](#); [HAWAII UNIV HONOLULU DEPT OF OCEANOGRAPHY](#)

... formation and transformation can be observed in the dynamic response of the aerosol size distribution. We were able to show that new particle **production** was negligible in this region and that heterogeneous conversion information of sulfate took place on existing aerosol. We also demonstrated that subsidence (as evidence by ozone variability) contributed new nuclei into the boundary layer from aloft and that **cloud** processing and heterogeneous chemistry 'grew' them to larger sizes. This process was shown to be modulated by diurnal photochemistry. We have ...

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#### [Bending of Circular and Ring-Shaped Elastic Thin Plate under Arbitrary Lateral Load.](#)

Sep 5, 1961

24 pages

[The Production and Nuclear Capture of a K Meson Observed in a Cloud Chamber](#)

Authors: [Jen-chi Cheng](#); [Min Lu](#); [Kan-chang Wang](#); [Chien Hsiao](#); [JOINT PUBLICATIONS RESEARCH SERVICE ARLINGTON VA](#)

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[Development of an Electronically-Controlled Smoke Pot Aerosol Dispenser](#)

2000

15 pages

Authors: [Daniel J. Hartman](#); [Noel Gonzalez](#); [William G. Rouse](#); [Raymond Malecki](#); [EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND MD](#)

[Full Text](#)

... material is loaded into 18 separate chambers. An electric igniter initiates each chamber. The smoke pot's battery-powered, electronic controller allows this operator to control the rate of smoke **production** by the pot, the time at which the unit will start to function and how much of the total payload will be expelled. The controller may be set to produce a single, instantaneous **cloud** of very dense smoke or a continuous curtain of smoke for up to 1 minute's duration. This capability provides broad utility for the smoke pot and allows ...

[Urban Influences on Convection and Lightning Over Houston](#)

2006

185 pages

Authors: [Michael L. Gauthier](#); [ALABAMA UNIV IN HUNTSVILLE SCHOOL OF GRADUATE STUDIES AND RESEARCH](#)

[Full Text](#)

... research presented in this dissertation addresses a fundamental question regarding urban, ultimately anthropogenic, influences on convection as it relates to lightning **production** and precipitation structure. In general, inadvertent weather modification hypotheses offered to explain lightning and rainfall anomalies rely on ... in the spatial distribution and intensity of convection (from whence warm-season rainfall and lightning emanate), or modification to convective **cloud** microphysics through aerosol loading over and downwind of polluted cities such as Houston. Using eight independent datasets, ...

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