

# The Project Skyfire Cloud Seeding Generator Research Paper Intermountain Forest And Range Experiment Station

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### [The Project Skyfire Cloud Seeding](#)

#### ApprovedTIC

The Project Skyfire cloud-seeding generator is designed to produce silver iodide nuclei for experiments performed in devising techniques for lightning suppression This generator produces freezing nclei by volatil-izing a silver iodide-acetone solution in a propane flameT The Project Skyfire cloud-seeding generator described in this publica-

#### **The seeding of cumulus clouds by ground-based silver ...**

in basic characteristics Therefore, in the 1957 Project Skyfire program, it was decided to carry out experimental cloud seeding cn each day meeting opera- tional specifications and to study these results in relation to unseeded con- ditions in surrounding areas This approach would broaden the experience in

#### **Project Skywater - Bureau of Reclamation**

program headed by the Bureau of Reclamation Project Skywater came fifteen years after Irving Langmuir, Vincent Schaefer, and Bernard Vonnegut

of the General Electric Laboratories in Schenectady, New York, successfully demonstrated that "seeding" clouds with nucleating agents like dry ice (carbon dioxide) and silver iodide produced rain

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I PROJECT SKYFIRE Project Skyfire is one of the tv/o sources of raw data used in this study I feel the project is of sufficient interest to warrant inclusion of a few paragraphs describing its origin and its objectives: The long-range lightning research program conducted by the U S, Forest Service has been named "Project Skyfire" It is a

**weather modification—some**

project SKYFIRE 2 The National Weather Service was encouraged and funded to begin field research on the modification of hurricanes NSF grant funds were used to purchase and install cloud seeding equipment for aircraft of the National Hurricane Research Project Later this work was formalized into a cooperative effort between

**The Glaciation of an AgI-Seeded Cumulus Cloud**

from cloud seeding is an important consideration of the U S Forest Service research program of lightning modification (Project Skyfire) To increase our know edge of cloud glaciation, a series of measurements within cumulus clouds was obtained during the ...

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CONTENTS Ab&tItaet

**'ARROYO**

Cloud seeding experiments originally involved mostly cumulus clouds, the most common, widely dis-tributed cloud form and the world's most important precipitation source The short life span and instability of such clouds complicate seeding opera-tions Orographic clouds, which form over mountainous areas, are better for seeding because they

**A RANDOMIZED CLOUD SEEDING EXPERIMENT AT CLIMAX, ...**

CLOUD SEEDING EXPERIMENT AT CLIMAX, COLORADO, 1960-65 LEWIS O GRANT and PAUL W MIELKE, JR ACSUmodified Skyfire, needle typeground generator is used for seeding at outset of this project after numerousdiscussions withmembersof the statistics

**Cloud Seeding and Cloud-to-Ground Lightning**

Cloud Seeding and Cloud-to-Ground Lightning1 Louis J Battan The University of Arizona, Tucson (Manuscript received 11 May 1966, in revised form 29 August 1966) ABSTRACT During the summers of 1958 to 1962, convective clouds over a mountain range in southeastern Arizona were seeded by means of airborne silver-iodide generators

**Weather Modification Page 1 of 8**

Cloud seeding introduces additional particles or nuclei into the atmosphere, causing more ice crystals to form Silver iodide compou nds or dry ice are the usual cloud seeding agents Aircraft or ground-based generators introduce the agents into the atmosphere The ice particles grow and attract nearby water vapor and droplets

**Weather Modification: Law and Administration**

the practical value of cloud seeding research It has been estimated Project Cirrus, involved a study of cloud physics and the mechanics of artificially induced precipitation This project, contracted to 18 1 Advisory Committee on Weather Control, Final Report 18 (1958) Project Skyfire has been continued under the auspices of the

**14-1.5. 196;. - NRCan**

a reduction of 38 per cent in cloud-to-ground lightning strikes • it least tyro more years of cloud seeding work will be necessary before reliable conclusions can be drawn regarding the success of this study, for a full detailed report on Project Skyfire refer to article entitled

**westernsnowconference.org**

the technical group when a Weather Bureau official reported very significant increases in a cloud seeding project which he had evaluated He planned to present the results at a public conference Then on rechecking, the official learned, to his great sorrow, that no cloud seeding operations had been carried out during part of the period that he had

**APRIL 2010 49 SUPER ET AL**

Project Skyfire (hereafter Skyfire) described by Super et al (1972) Both the Skyfire, using a 2% AgI-NH<sub>4</sub>I-acetone seeding solution, and one of the three acoustical ice nucleus counters AINCs used in this study was calibrated at the CSU Isothermal Cloud Chamber (ICC) as discussed by DeMott et al (1995) These previous observations provide a

**THE RUINED CLOUDS**

seeding colonies all across the galaxy One such territory was on the planet Nejeor VI, a gas giant with virtually inexhaustible natural resources The kishalee built floating cities among the clouds, the grandest of which was Istamak Colonists came from far and wide for a chance to live in this

**July 4th Celebration PROGRAM Condon, MT, 2017**

Lab, assigned to Project Skyfire The project explored the viability of cumulus cloud-seeding to reduce lightning caused fires Alan noted, "it worked in certain circumstances" Later he worked for the US Fish and Wildlife Service in Ft Collins, Colorado and became a meeting facilitator during that time

**-71 7-(E) Q+++++-**

cloud strokes between areas 13 and 15 will use up the negative charge of 15 and thereby lessen the probability of ground strokes By seeding the region between 13 and 15 with a plurality of needle-shaped conductors 12, the intracloud lightning will be inhibited as explained in

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