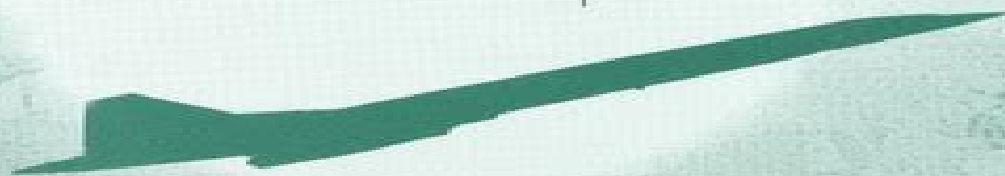


A REVIEW OF NASA'S
**ATMOSPHERIC
EFFECTS OF
STRATOSPHERIC
AIRCRAFT** PROJECT



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A Review Of Nasas Atmospheric Effects Of Stratospheric Aircraft Project

**National Research Council, Division on
Earth and Life Studies, Commission on
Geosciences, Environment and
Resources, Panel on Atmospheric
Effects of Aviation**

A Review Of Nasas Atmospheric Effects Of Stratospheric Aircraft Project:

A Review of NASA's 'Atmospheric Effects of Stratospheric Aircraft' Project National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Panel on Atmospheric Effects of Aviation, 1999-11-05 The NRC Panel on the Atmospheric Effects of Aviation PAEAN was established to provide guidance to NASA's Atmospheric Effects of Aviation Program AEAP by evaluating the appropriateness of the program's research plan appraising the project sponsored results relative to the current state of scientific knowledge identifying key scientific uncertainties and suggesting research activities likely to reduce those uncertainties Over the last few years the panel has written periodic reviews of both the subsonic aviation Subsonic Assessment SASS and the supersonic aviation Atmospheric Effects of Stratospheric Aircraft AESA components of AEAP including An Interim Review of the Subsonic Assessment Project 1997 An Interim Assessment of AEAP's Emissions Characterization and Near Field Interactions Elements 1997 An Interim Review of the AESA Project Science and Progress 1998 Atmospheric Effects of Aviation A Review of NASA's Subsonic Assessment Project 1998 This report constitutes the final review of AESA and will be the last report written by this panel The primary audience for these reports is the program managers and scientists affiliated with AEAP although in some cases the topics discussed are of interest to a wider audience

The Atmospheric Effects of Stratospheric Aircraft Project

National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Panel on Atmospheric Effects of Aviation, 1998-09-21 Scientists and policy makers alike are concerned that operation of a fleet of high speed civil transport HSCT aircraft could significantly affect the global atmosphere HSCT emissions may have a direct effect on the chemistry of the atmosphere leading to changes in the distribution of ozone they may also have indirect effects on ozone and on global climate through coupling with radiative and dynamical processes in the atmosphere An assessment of the atmospheric impact of a fleet of HSCTs thus requires not only an understanding of the chemistry of the natural stratosphere and its possible perturbations by HSCT emissions but also an understanding of the pathways for transport of HSCT emissions within the atmosphere and the resulting temporal and spatial distribution of HSCT emissions The results of NASA's Atmospheric Effects of Stratospheric Aircraft AESA project were summarized in a 1995 NASA assessment The present report looks at that summary and at more recent work to evaluate the state of the science AESA has made good progress in the past few years Satellite and aircraft observations have elucidated important aspects of large scale transport processes Field campaigns have provided a much better picture of the relative importance below 20 km altitude of the major catalytic cycles for ozone destruction Careful intercomparisons of assessment models have led to reduction of some of the differences among the models However a number of uncertainties and inconsistencies still remain

Atmospheric Effects of Aviation

National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Panel on Atmospheric Effects of Aviation, 1999-02-19 Aviation is an integral part of the global transportation

network and the number of flights worldwide is expected to grow rapidly in the coming decades Yet the effects that subsonic aircraft emissions may be having upon atmospheric composition and climate are not fully understood To study such issues NASA sponsors the Atmospheric Effects of Aviation Program AEAP The NRC Panel on Atmospheric Effects of Aviation is charged to evaluate AEAP and in this report the panel is focusing on the subsonic assessment SASS component of the program This evaluation of SASS AEAP was based on the report Atmospheric Effects of Subsonic Aircraft Interim Assessment Report of the Advanced Subsonic Technology Program on a strategic plan developed by SASS managers and on other relevant documents

Interim Review of the Subsonic Assessment Project National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Board on Atmospheric Sciences and Climate, 1997-08-09

For Greener Skies National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee on Aeronautics Research and Technology for Environmental Compatibility, 2002-05-24

Each new generation of commercial aircraft produces less noise and fewer emissions per passenger kilometer or ton kilometer of cargo than the previous generation However the demand for air transportation services grows so quickly that total aircraft noise and emissions continue to increase Meanwhile federal state and local noise and air quality standards in the United States and overseas have become more stringent It is becoming more difficult to reconcile public demand for inexpensive easily accessible air transportation services with concurrent desires to reduce noise improve local air quality and protect the global environment against climate change and depletion of stratospheric ozone This situation calls for federal leadership and strong action from industry and government U S government industry and universities conduct research and develop technology that could help reduce aircraft noise and emissions but only if the results are used to improve operational systems or standards For example the now terminated Advanced Subsonic Technology Program of the National Aeronautics and Space Administration NASA generally brought new technology only to the point where a system subsystem model or prototype was demonstrated or could be validated in a relevant environment Completing the maturation process by fielding affordable proven commercially available systems for installation on new or modified aircraft was left to industry and generally took place only if industry had an economic or regulatory incentive to make the necessary investment In response to this situation the Federal Aviation Administration NASA and the Environmental Protection Agency asked the Aeronautics and Space Engineering Board of the National Research Council to recommend research strategies and approaches that would further efforts to mitigate the environmental effects i e noise and emissions of aviation The statement of task required the Committee on Aeronautics Research and Technology for Environmental Compatibility to assess whether existing research policies and programs are likely to foster the technological improvements needed to ensure that environmental constraints do not become a significant barrier to growth of the aviation sector

High-Speed Dreams Erik M. Conway, 2008-11-03 In *High Speed Dreams* Erik M Conway constructs an insightful history that focuses primarily on the

political and commercial factors responsible for the rise and fall of American supersonic transport research programs Conway charts commercial supersonic research efforts through the changing relationships between international and domestic politicians military NASA contractors private investors and environmentalists He documents post World War II efforts at the National Advisory Committee on Aeronautics and the Defense Department to generate supersonic flight technologies the attempts to commercialize these technologies by Britain and the United States during the 1950s and 1960s environmental campaigns against SST technology in the 1970s and subsequent attempts to revitalize supersonic technology at the end of the century High Speed Dreams is a sophisticated study of politics economics nationalism and the global pursuit of progress Historians along with participants in current aerospace research programs will gain valuable perspective on the interaction of politics and technology The Atmospheric Effects of Stratospheric Aircraft ,1992 **NASA Scientific and Technical Publications** ,1993 *The Atmospheric Effects of Stratospheric Aircraft* National Aeronautics and Space Administration (NASA),2018-08-04 This document presents the fourth report from the Atmospheric Effects of Stratospheric Aircraft AESA component of NASA s High Speed Research Program HSRP Market and technology considerations continue to provide an impetus for high speed civil transport research A recent AESA interim assessment report and a review of that report have shown that considerable uncertainty still exists about the possible impact of aircraft on the atmosphere The AESA has been designed to develop the body of scientific knowledge necessary for the evaluation of the impact of stratospheric aircraft on the atmosphere The first Program report presented the basic objectives and plans for AESA This fourth report comes after the interim assessment and sets forth directions for the 1995 assessment at the end of AESA Phase 1 It also sets forth the goals and directions for AESA Phase 2 as reported at the 1994 Atmospheric Effects of Aviation Project AEAP annual meeting held in June The focus of the Phase 2 effort is to obtain the best possible closure on the outstanding problems identified in the interim assessment and NASA NRC review Topics discussed in this report include how high speed civil transports HSCT might affect stratospheric ozone emissions scenarios and databases to assess potential atmospheric effects from HSCT s calculated results from 2 D zonal mean models using emissions data engine trace constituent measurements Stolarski Richard S Editor and Wesoky Howard L Editor and Wofsy Steven C and Ravishankara A R and Rodriguez Jose M and Grose William L Goddard Space Flight Center Langley Research Center NASA RP 1359 NAS 1 61 1359 Scientific and Technical Aerospace Reports ,1995

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