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Fog Dissipation



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[Forecasting Advective Sea Fog with the Use of Classification and Regression Tree Analyses for Kunsan Air Base](#) Mar 2004 103 pages

Authors: [Danielle M. Lewis](#); [AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEMENT](#)

... no suitable methods developed for forecasting advective sea fog at Kunsan, primarily due to a lack of understanding of sea ... This work explored the feasibility of predicting sea fog development with a 24-hour forecast lead time. Before ... of fog formation, the physical properties of fog droplets, and its dissipation. Examined in this work were data sets of Kunsan surface observations, ... revealed weak relationships between the target variable (sea fog) and upper air predictors, with stronger relationships ... to air forecasters in predicting the evolution of sea fog events and advection over the area.

Full Text

[Modern Methods for the Artificial Dissipation of Fog and Low Clouds and Experience in Using These Methods for Aviation Purposes](#) May 28, 1972 15 pages

Authors: [I. I. Gayvoronskiy](#); [L. I. Krasnovskaya](#); [A. D. Soloyev](#); [FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OH](#)

The report contains reviews methods for the artificial dissipation of low-level clouds and fogs. A classification of dissipation methods is given. The classification was made on the basis of the physical processes capable of leading to an improvement of visibility in a fog. The classification makes it possible to analyze any modification methods by comparing them with the most characteristic methods listed in the table. It is proposed that the specific expenditures on energy (reagent) during a definite period be regarded as the principal criterion of method efficiency.

Full Text

[A Detailed Study of Advection Sea Fog Formation to Reduce the Operational Impacts Along the Northern Gulf of Mexico](#) Mar 2007 112 pages

Authors: [Jason M. King](#); [NAVAL POSTGRADUATE SCHOOL MONTEREY CA](#)

This study creates rules of thumb for forecasting advection sea fog development and dissipation along the northern Gulf of Mexico for the months of December through March. Surface observations from Tyndall AFB, Destin- Fort ... the low-level atmospheric state and the sea surface temperatures during advection sea fog events at the five locations listed above. Forecasting rules of thumb were created and ... Destin-Fort Walton Beach analysis. Missing sea surface temperatures limited the amount of winter time advection sea fog seasons that could be examined.

Full Text

[CLIMATOLOGICAL SUMMARIES. VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET. VOLUME 2. ATLANTA AIRPORT, ATLANTA, GEORGIA](#) Jun 1969 32 pages

Authors: [NATIONAL WEATHER RECORDS CENTER ASHEVILLE NC](#)

This report consists of 41 volumes of climatological data for 41 different major airports. Ceiling, visibility, wind, and weather information are grouped by various periods of the day and by various temperature and wind categories. Various weather and landing system categories are tabulated, in most cases from 10 years of data, as aids for making decisions affecting landing systems and fog dissipation at these 41 air terminals.

Full Text

[CLIMATOLOGICAL SUMMARIES: VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET. VOLUME 20. LOS ANGELES, CALIFORNIA, INTERNATIONAL AIRPORT](#) Jun 1969 34 pages

Authors: [NATIONAL WEATHER RECORDS CENTER ASHEVILLE NC](#)

The report consists of climatological data for Los Angeles International Airport, Los Angeles, California. Ceiling, visibility, wind, and weather information are grouped by various periods of the day and by various temperature and wind categories. Various weather and landing system categories are tabulated, in most cases from 10 years of data, as aids for making decisions affecting landing systems and fog dissipation.

Full Text

[CLIMATOLOGICAL SUMMARIES, VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET. VOLUME 32. PITTSBURGH, PENNSYLVANIA. GREATER PITTSBURGH INTERNATIONAL AIRPORT](#) Jun 1969 33 pages

Authors: [NATIONAL WEATHER RECORDS CENTER ASHEVILLE NC](#)

The report contains climatological data for the Greater Pittsburgh International Airport, Pittsburgh, Penn. Ceiling, visibility, wind, and weather information are grouped by various periods of the day and by various temperature

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and wind categories. Various weather and landing system categories are tabulated, in most cases from 10 years of data, as aids for making decisions affecting landing systems and **fog dissipation** at the Greater Pittsburgh International Airport, Pittsburgh, PA.

[CLIMATOLOGICAL SUMMARIES: VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET. VOLUME 31. PHILADELPHIA, PENNSYLVANIA. INTERNATIONAL AIRPORT](#)

Jun 1969 35 pages

Authors: [NATIONAL WEATHER RECORDS CENTER ASHEVILLE NC](#)

[Full Text](#)

The report consists of climatological data for Philadelphia, Pennsylvania International Airport. Ceiling, visibility, wind, and weather information are grouped by various periods of the day and by various temperature and wind categories. Various weather and landing system categories are tabulated, in most cases from 10 years of data, as aids for making decisions affecting landing systems and **fog dissipation**.

[A Statistically-Based Method for Predicting Fog and Stratus Dissipation](#)

Mar 2004 89 pages

Authors: [Louis L. Lussier III](#); [AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEMENT](#)

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The method is a success in producing forecasts for ceiling and visibility criteria that had never previously been examined. It is suggested that the 15 OWS incorporate this methodology into their operational forecasting routine. Ceiling forecasts at Dover AFB and McGuire AFB show improvements over conditional climatology ranging from 1-51% with an average improvement of 19.2% when verified against an independent data set. McGuire AFB visibility forecasts show an average improvement over conditional climatology of 3%. These findings are of particular importance to the Air Force in general and ...

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