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Estimating European Halocarbon Emissions Using Lagrangian Backward Transport Modeling and in Situ Measurements at the Jungfraujoch High-Alpine Site
Section IV Atmospheric Chemistry; Atmospheric Chemistry in Lagrangian Models-Overview; Global-Scale Tropospheric Lagrangian Particle Models With Linear Chemistry; Quantitative Attribution of Processes Affecting Atmospheric Chemical Concentrations by Combining a Time-Reversed Lagrangian Particle Dispersion Model and a Regression Approach; Section V Operational/Emergency Modeling; Operational Emergency Preparedness Modeling-Overview
Operational Volcanic Ash Cloud Modeling: Discussion on Model Inputs, Products, and the Application of Real-Time Probabilistic Forecasting
A Bayesian Method to Rank Different Model Forecasts of the Same Volcanic Ash Cloud; Review and Validation of MicroSpray, a Lagrangian Particle Model of Turbulent Dispersion; Lagrangian Models for Nuclear Studies: Examples and Applications; AGU Category Index

Sommario/riassunto

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 200. Trajectory-based ("Lagrangian") atmospheric transport and dispersion modeling has gained in popularity and sophistication over the previous several decades. It is common practice now for researchers around the world to apply Lagrangian models to a wide spectrum of issues. Lagrangian Modeling of the Atmosphere is a comprehensive volume that includes sections on Lagrangian modeling theory, model applications, and tests against observations. Published by
