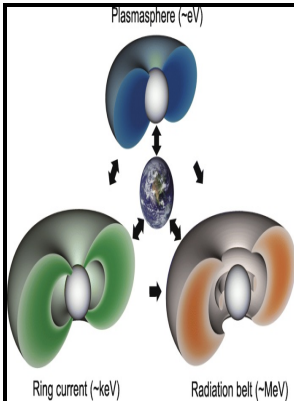# Thunderstorm-environment interactions determined with three-dimensional trajectories

## National Aeronautics and Space Administration, Scientific and Technical Information Office - Reconstruction of complex single



Description: -
-
Stress (Psychology)
Social psychiatry.
Social classes.
Psychiatric epidemiology.
Mental illness -- Social aspects -- Germany.
Atmospheric circulation.
Thunderstorms.Thunderstorm-environment interactions determined with three-dimensional trajectories
-
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NASA reference publication -- 1054Thunderstorm-environment interactions determined with three-dimensional trajectories
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## Two & Three Dimensional Systems

A piezo transducer attached to the glass slide excites surface oscillations at the bubble interface generating a vortical acoustic streaming flow in red in the microchannel. At the top of the cloud, where mass flux is small and therefore fractional entrainment and detrainment rates are large, the results are generally not useful.

## dfnWorks: A discrete fracture network framework for modeling subsurface flow and transport

The lowest grid level was located at 200 m above ground level AGL; hereafter, all heights are AGL. We used a list of the most variable genes across all single-cells for t-SNE analysis list provided by the authors of the original publication.

## Thunderstorm

Next, we averaged the normalized counts for each replicate two per time point along the time-course of neutrophil differentiation. Then, we consider genes above the 85% quantile as positively correlated with the trajectory progression increasing expression during differentiation and genes below the 15% quantile as anti-correlated with the trajectory progression decreasing expression during differentiation.

## Trajectories

In addition, previous attempts to generate HSC-like cells did not explore the kinetic component of gene expression during the cell engineering, and instead relied on simultaneously inducing the expression of a library of transcription factors. The aim of this research is to compute entrainment and detrainment rates that can be used in one-dimensional cloud models. Induction of multipotential hematopoietic progenitors from human pluripotent stem cells via respecification of lineage-restricted precursors.

## Ion trajectories in Saturn's magnetosphere near Titan

Another critical aspect for the present study was the increased accuracy and sensitivity of the radars, which significantly enhanced the ability to detect motions in the clear air. CellRouter is a transition-centered trajectory reconstruction algorithm, distinct from the bifurcation-centered algorithms such as Wishbone, DPT, and Monocle 2.

**Measuring Boltzmann's constant through holographic video microscopy of a single colloidal sphere**

A backward time integration was applied for parcels that terminated within the updraft by implementing a fourth-order Runge—Kutta method with a time step of 10 s.

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