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The results show that a PCFT beam with larger propagating distance and lower beam order is more affected by atmospheric turbulence, while the dependence of PCFT order N , coherence properties ...

Influence of turbulent atmosphere on the far-field ...

Atmospheric
turbulence, small-

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scale, irregular air motions characterized by winds that vary in speed and direction.

Turbulence is important because it mixes and churns the atmosphere and causes water vapour, smoke, and other substances, as well as energy, to become distributed both vertically and horizontally.

Atmospheric

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Britannica

19 August 1994

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This paper aims to present a multifractal approach of the turbulent atmosphere, by proposing that it can be considered a complex system whose structural units support dynamics on continuous but non-differentiable multifractal curves. Implementing the theoretical framework

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of multifractality
through non-
differentiable functions
in the form of scale
relativity theory with
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**On a Multifractal
Approach of
Turbulent
Atmosphere
Dynamics**

28 August 2009

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unstable resonators. Yu-

feng Peng, Juan Wang,

Xiao-qun Bi, Ming-gao

Zhang, Zu-hai Cheng.

Author Affiliations +

Proceedings Volume

7382, International

Symposium on

Photoelectronic

Detection and ...

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atmosphere on laser

beams from ...

The atmospheric

turbulence, in turn,

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gives rise to small fluctuations of the atmospheric refractive-index. As a result, the phase of the light beam propagating through turbulent atmosphere will be distorted. Although the phase distortion is a random process, it obeys a specific statistic rule.

**Influence of
atmospheric
turbulence on OAM-**

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based FSO ...

Influence of Lead width
on the Turbulent Flow
Over Sea Ice Leads:

Modeling and
Parametrization.

Janosch Michaelis.

Corresponding Author.

... results obtained with
the new nonlocal

parametrization agree

well with the LES for

variable lead widths

and different

atmospheric forcing

although there is a

room for further

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improvement.

Furthermore ... On

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Shiyao Fu and
Chunqing Gao,
"Influences of
atmospheric
turbulence effects on
the orbital angular
momentum spectra of
vortex beams," Photon.
Res. 4, B1-B4 (2016)

It represents that the strong turbulent layer appears near the tropopause in the morningtime under the combined influences of wind shear and temperature gradient. However, the evening strong turbulent layer at tropopause maybe mainly affected by the temperature gradient,

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while the influence of
wind shear is less.

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**Measurement and
analysis of
atmospheric optical
turbulence ...**

To study the influence
of complex terrain with
different scales on the
structure of near-
surface turbulence, the
turbulence

observational data
from Semi-Arid Climate
and Environment

Observatory of

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Lanzhou University

(SACOL) were

analyzed. SACOL is

located in typical Loess

Plateau topography.

The terrain around the

site varies greatly with

the direction.

Atmosphere | Free Full-Text | Influence of Complex Terrain

...

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Fluctuations on Cloud

Droplet Size Dispersion

and Aerosol Indirect

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Effects K. K.

Chandrakar; K. K.

Chandrakar

Atmospheric Sciences

Program, and

Department of Physics,

Michigan Technological

University, Houghton,

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Fluctuations on

Cloud Droplet Size

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...
They have an influence on the lifetime of isoprene in the forested PBL that is comparable to recently proposed chemical oxidant recycling mechanisms. Reactive trace gases such as isoprene are particularly prone to chemistry-turbulence interactions due to a comparable chemical lifetime with respect to the mixing time scale

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($Da = 0.4-1$).

Atmosphere On

Chemistry-turbulenc

e interactions and

mesoscale ...

The influence of the winter atmospheric circulation on the turbulent variables of the air-sea boundary layer in the Mediterranean Sea is investigated. We examine the effects of several climatic indices and the corresponding large scale

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atmospheric patterns
on the above variables
by using a correlation
analysis.

Influence of atmospheric circulation on turbulent air-sea ...

Influence of turbulent
fluctuations on
detonation propagation
- Volume 818 - Brian
McN. Maxwell, R. R.
Bhattacharjee, S. S. M.
Lau-Chapdelaine, S. A.
E. G. Falle, G. ...

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detonation ...**

Influence of the
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Accuracy of the Missile
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Deblin, Poland 2 Air

Force Institute of

Technology, , 01-494 ...

**Influence of the
Atmospheric
Turbulence on the
Accuracy of ...**

Over the ocean,
atmospheric boundary
layer turbulence can
be altered by
underlying waves.
Under swell conditions,
the impact of waves on
the atmosphere is
more complicated

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compared to that

under wind-wave

conditions.

Atmosphere On
Measuring

**Atmospheric
Boundary Layer
Turbulence Closure
Scheme for ...**

The characteristics of high-power partially coherent laser beams propagating upwards in the turbulent atmosphere are studied, where the principal features of diffraction, nonlinear

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self-focusing and
turbulence are
considered. Based on
the “thin window”

model, the analytical
propagation formulae
are derived by using
the quadratic
approximation of the
nonlinear phase shift.

OSA | Characteristics of high-power partially coherent ...

A wind profiler
observation revealed
existence of low-level

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jets (LLJs) at the end of
the polluted periods,

suggesting that the
upper-level turbulent
mixing accompanied

by the wind shear of
LLJ was transported
downward and

enhanced the vertical
mixing near the

surface, which might
have caused an abrupt
reduction in PM 2.5 and

improvement in air

conditions.

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