

From: Carl H. Gibson ir118@sdcc3.ucsd.edu 

Subject: Re: Your submission to Turbulent Mixing and Beyond

Date: June 21, 2016 at 8:19 AM

To: Physica Scripta PhysScr@iop.org

Cc: Snezhana I Abarzhi snezhana.abarzhi@gmail.com, suzy@intonate.com, Schild, Rudolph rschild@cfa.harvard.edu

CH

Dear Physica Scripta and Snezhana:

Yes, I am disappointed, but not particularly surprised after several experiences with Turbulent Mixing and Beyond participants that are nearly all wedded in their scientific thinking to the concept that turbulence is an impossible problem of classical physics. Alexander Bershadski seems to be an exception. Ask him what he thinks of your decision. Or ask Sreeni. Those two have data and proof. Everyone else at TMB believes the inverse cascade myth, from GI Taylor and LF Richardson to TMB 2014. Alas, you (and GI and LFR) are wrong. Turbulence is not an impossible problem. It has been solved, and all evidence proves the problem is solved, and that Kolmogorov universal similarity laws are correct and easily understandable. Hot big bang turbulent combustion at Planck scales proves the turbulent cascade MUST be from small scales to large, following Kolmogorov. The new telescopes in all frequency bands leave no more room for doubt. It is time for TMB to get educated. Ignorance is more costly. It has always been expensive, but is now costing lives.

Thanks to all for your efforts.

Regards,

Carl

## *At Last!, The Solution to the Turbulence Problem*

*Carl H. Gibson*

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AAAS turbulence meeting San Diego 15 June 2016

## Extreme Equatorial Icing

Engines fail due to high altitude icing at equatorial latitudes



\*journalofcosmology.com volumes 21 and 23

A Boeing 747 "Dreamlifter" takes off in this file picture. AP photo

\*Catastrophic equatorial icing is likely cause of MH 370 crash (not pilot error, not terrorist capture, not engine failure)

For "likely cause" I would say probability > 99%.

# Turbulence Problem Solved!

Wikipedia says "... turbulence remains one of the unsolved problems in physics" furthermore, they suggest Kolmogorovian universal similarity laws are "broken" Wikipedia is wrong about both of these assertions, as shown by the data

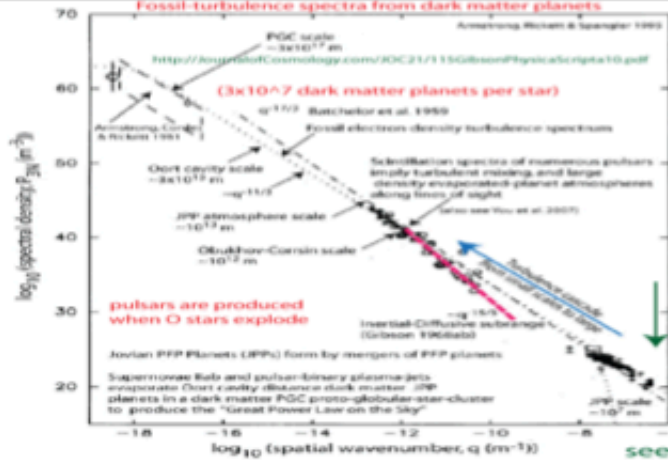
concept of self-similarity. As a result, the Kolmogorov microscales were named after him. It is now known that the self-similarity is broken so the statistical description is presently modified. Still, a complete description of turbulence remains one of the unsolved problems in physics.

According to an apocryphal story, Werner Heisenberg was asked what he would ask God, given the opportunity. His reply was: "When I meet God, I am going to ask him two questions: Why relativity? And why turbulence? I really believe he will have an answer for the first."<sup>101</sup> A similar witicism has been attributed to Horace Lamb (who had published a noted text book on Hydrodynamics)—his choice being quantum electrodynamics (instead of relativity) and turbulence. Lamb was quoted as saying in a speech to the British Association for the Advancement of Science, "I am an old man now, and when I die and go to heaven there are two matters on which I hope for enlightenment. One is quantum electrodynamics, and the other is the turbulent motion of fluids. And about the former I am rather optimistic."<sup>102</sup>

Turbulence is defined as an eddy-like state of fluid motion where the inertial-vortex forces of the eddies are larger than any of the other forces that tend to damp the eddies out. When turbulence is defined in this way, the problem is solved, and the physical mechanism behind the universal Kolmogorovian cascade of turbulent kinetic energy from small scales to large is clear. Kolmogorov's only mistake was to believe G. I. Taylor and L. F. Richardson.

**Little whorls on vortex sheets, merge and pair with more of, whorls that grow by vortex forces, Slava Kolmogorov!**

Phys. Scr. T142 (2010) 014030 **Turbulence and turbulent mixing in natural fluids, C. H. Gibson (2010)**



turbulence always obeys the universal similarity laws of Kolmogorov-Obukhov

Turbulence is defined as an eddy-like state of fluid motion where the inertial vortex forces of the eddies are larger than any of the other forces that tend to damp the eddies out

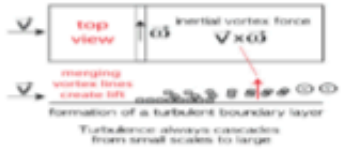


Figure 12. The definition of turbulence is given based on the inertial vortex force. The formation of a turbulent boundary layer is a generic example.

**The mechanism of turbulence**  
turbulence always cascades from small scales to large

Figure 10. Great power law on the sky. A variety of radio telescope fossil turbulence electron density  $P_{BSS}$  power spectra  $\sim q^{-11/3}$  are combined over 11 wavenumber  $q$  decades, suggesting a turbulent mixing origin of supernova-driven plasma within the PGC planet clump surrounding the earth.

Some of the more spectacular data

see journalofcosmology.com volume 21

see also journalofcosmology.com volume 24

Without the correct definition of turbulence one cannot understand the Schild 1996 observations that the dark matter of galaxies is earth mass planets in metastable clumps of a trillion.

On Jun 21, 2016, at 5:49 AM, Physica Scripta <[PhysScr@iop.org](mailto:PhysScr@iop.org)> wrote:

Dear Dr Gibson,

Thank you for your response to the decision on your Paper, which was under consideration for Physica Scripta. We understand that the decision may have come as a disappointment.

Unfortunately, in spite of your comments, we have decided to stand by our decision to no longer consider your article for publication in Physica Scripta.

We would like to thank you for your interest in Physica Scripta, and we wish you every success in finding an alternative outlet for your research.

Yours sincerely

Zora Catterick - Editorial Assistant

*Physica Scripta*

*Publishing Team*

*Jarlath McKenna - Publisher*

*Emma Chorlton - Editor*

*Claire Fullarton & Miriam Howland - Associate Editors*

*Zora Catterick - Editorial Assistant*

*Caroline Fitzgerald - Production Editor*

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*BS1 6HG, UK*

From: "Carl H. Gibson" <[ir118@sdcc3.ucsd.edu](mailto:ir118@sdcc3.ucsd.edu)>  
To: Physica Scripta <[PhysScr@iop.org](mailto:PhysScr@iop.org)>,  
Cc: [cgibson@ucsd.edu](mailto:cgibson@ucsd.edu)  
Date: 20/06/2016 16:21  
Subject: Re: Your submission to Turbulent Mixing and Beyond

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If the Editorial Board reads the new reference and associated material in the Journal of cosmology, they will realize my paper should be published, not rejected as recommended by your Referee based on what I call "Old" turbulence. See

[journalofcosmology.com](http://journalofcosmology.com)

Vol 25 No. 45 etc. for proof that the turbulence problem has been solved.

Regards,

Carl

Sent from my iPhone  
[cgibson@UCSD.edu](mailto:cgibson@UCSD.edu)

On Jun 16, 2016, at 02:02, Physica Scripta <[PhysScr@iop.org](mailto:PhysScr@iop.org)> wrote:

Dear Dr. Gibson,

Thank you for submitting your revised manuscript to Turbulent Mixing and Beyond.

It was considered by the reviewer as well as by the Editorial Board of Physica Scripta. Their responses can be found below.

As it currently stands, the manuscript has been rejected.

You are welcome to submit your future works, while taking into account the comments of the Referee and the Board.

Kind regards,

Emma Chorlton  
*Physica Scripta*

*Publishing Team*  
Jarlath McKenna - *Publisher*  
Emma Chorlton - *Editor*  
Claire Fullarton & Miriam Howland - *Associate Editors*  
Zora Catterick - *Editorial Assistant*  
Caroline Fitzgerald - *Production Editor*

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**REFEREE REPORTS:**

**Referee response:**

Dear Editor, I have read the revised manuscript of Dr. Gibson 'Catastrophic Equatorial Icing events crash aircraft with increasing frequency'. Only some cosmetic changes have been made in the revised manuscript: The abstract has been modified; An outline has been added (end of p2/ beg of p3); A reference has been added ([http:// journalofcosmology.com/JOC21/115GibsonPhysicaScripta10.pdf](http://journalofcosmology.com/JOC21/115GibsonPhysicaScripta10.pdf)). I recommend to fully rejecting the paper.

**Editorial Board of Physica Scripta comments on manuscript of Gibson 'Catastrophic Equatorial Icing events crash aircraft with increasing frequency':**

Unfortunately, the author has not revised the paper in accordance with the requirements of the referee, who was already exceedingly accommodating. As it currently stands, this manuscript is not publishable. It is disappointing as the author should be able to produce a lean, well-considered case regarding a new interpretation of the effects of turbulence in this context.

The author is welcome to submit in the future a new, well-thought through manuscript. A solid scientific content of this new manuscript is the mandatory requirement. In addition, the new manuscript should have high quality images, and the author should obtain in advance formal permissions from other publishers to use these images in his manuscript.

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