

Re: Foucault at the equator

Source: <http://sci.tech-archive.net/Archive/sci.physics/2004-06/2304.html>

From: John T Lowry (jlowry100_at_earthlink.net)

Date: 06/07/04

Date: Mon, 07 Jun 2004 14:46:27 GMT

"Tristan Miller" <psychonaut@nothingisreal.com> wrote in message
news:1160480.xLJh79aFKL@ID-187157.News.Individual.NET...

> *Greetings.*

>

> *In article <6AMwc.23967\$Tn6.19052@newsread1.news.pas.earthlink.net>,*

John T

> *Lowry wrote:*

>> *Nothing to it. Taking two identical jet transports, at identical but*

>> *opposite velocities, and have one circumnavigate the earth*

eastbound,

>> *the other, westbound. The eastbound one will use less fuel because*
it

>> *gets an effective lift boost (hence less aerodynamic lift, hence*
less

>> *induced drag), in the earth frame, from earth's rotation. It's a*

>> *Coriolus force demonstation, as is the Foucault pendulum, but in the*

>> *vertical instead of the horizontal plane.*

>

> *Perhaps you missed the part about it being the year 1850...?*

>

> *Regards,*

> *Tristan*

>

>

You're right. I missed the 1850 proviso.

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> _

> *_V.-o Tristan Miller [en,(fr,de,ia)] >< Space is limited*

> */|'-' ----- <> In a haiku, so it's hard*

> *(7_\\ <http://www.nothingisreal.com/> >< To finish what you*