

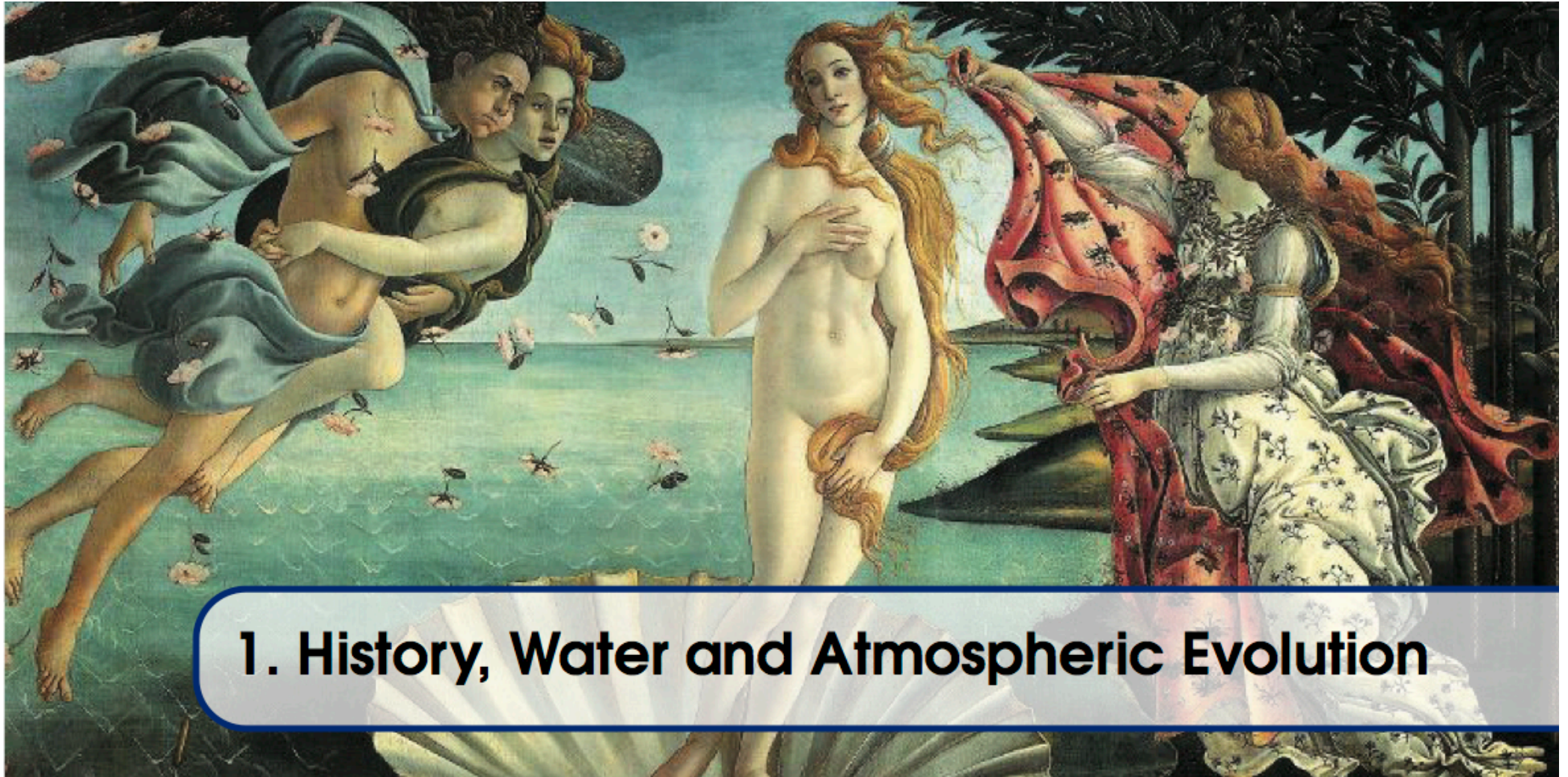


Escape to Space or Return to Venus: Ion Flows Measured by Venus Express

MOA PERSSON



Venus: symbol of a beautiful world



1. History, Water and Atmospheric Evolution

"The universe is hilarious! Like, Venus is 900 degrees¹. I could tell you it melts lead. But that's not as fun as saying, "You can cook a pizza on the windowsill in nine seconds." And next time my fans eat pizza, they're thinking of Venus!"

Niall DeGrasse Tyson



beautiful world

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European

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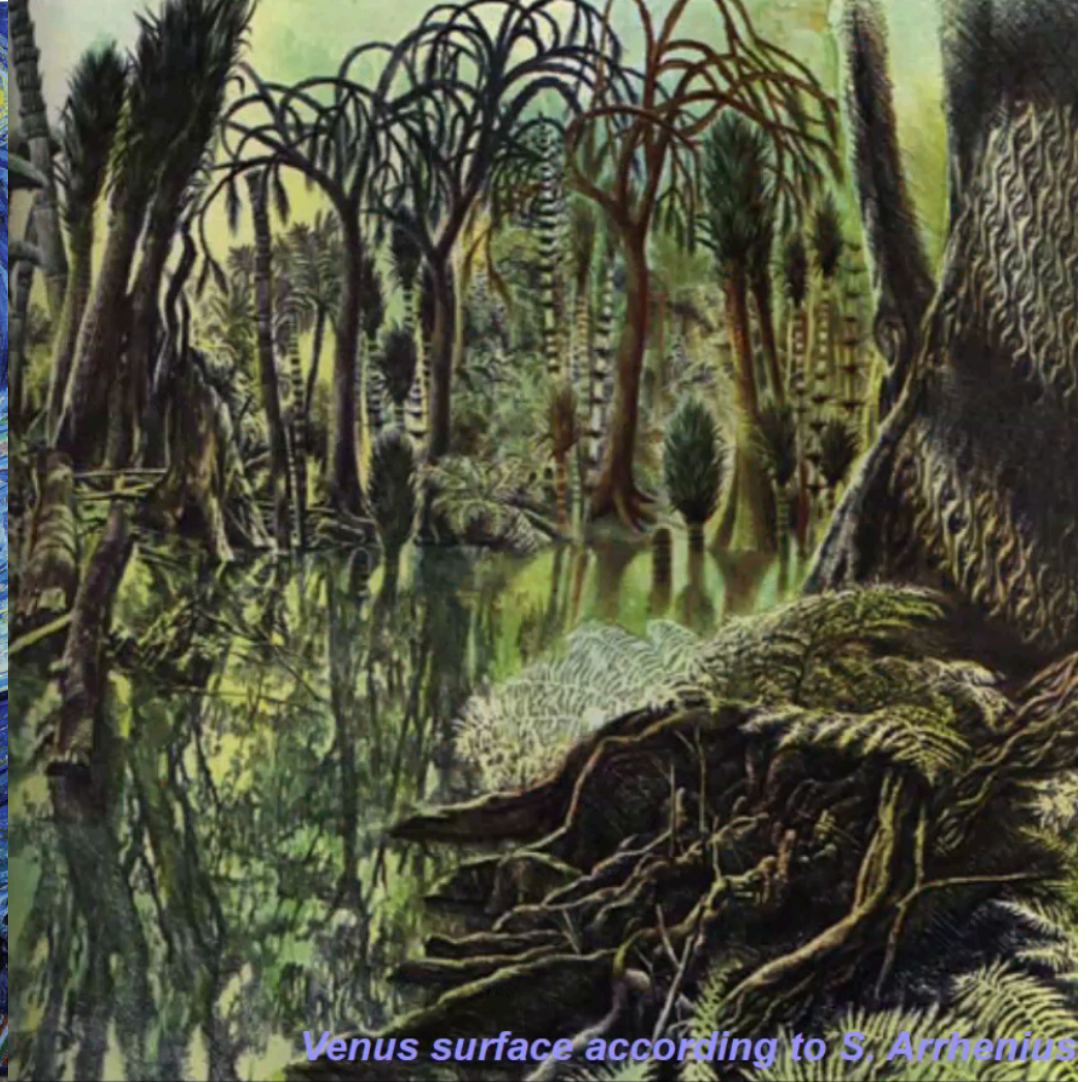
**Well, different people have
different view of "beautiful world"**



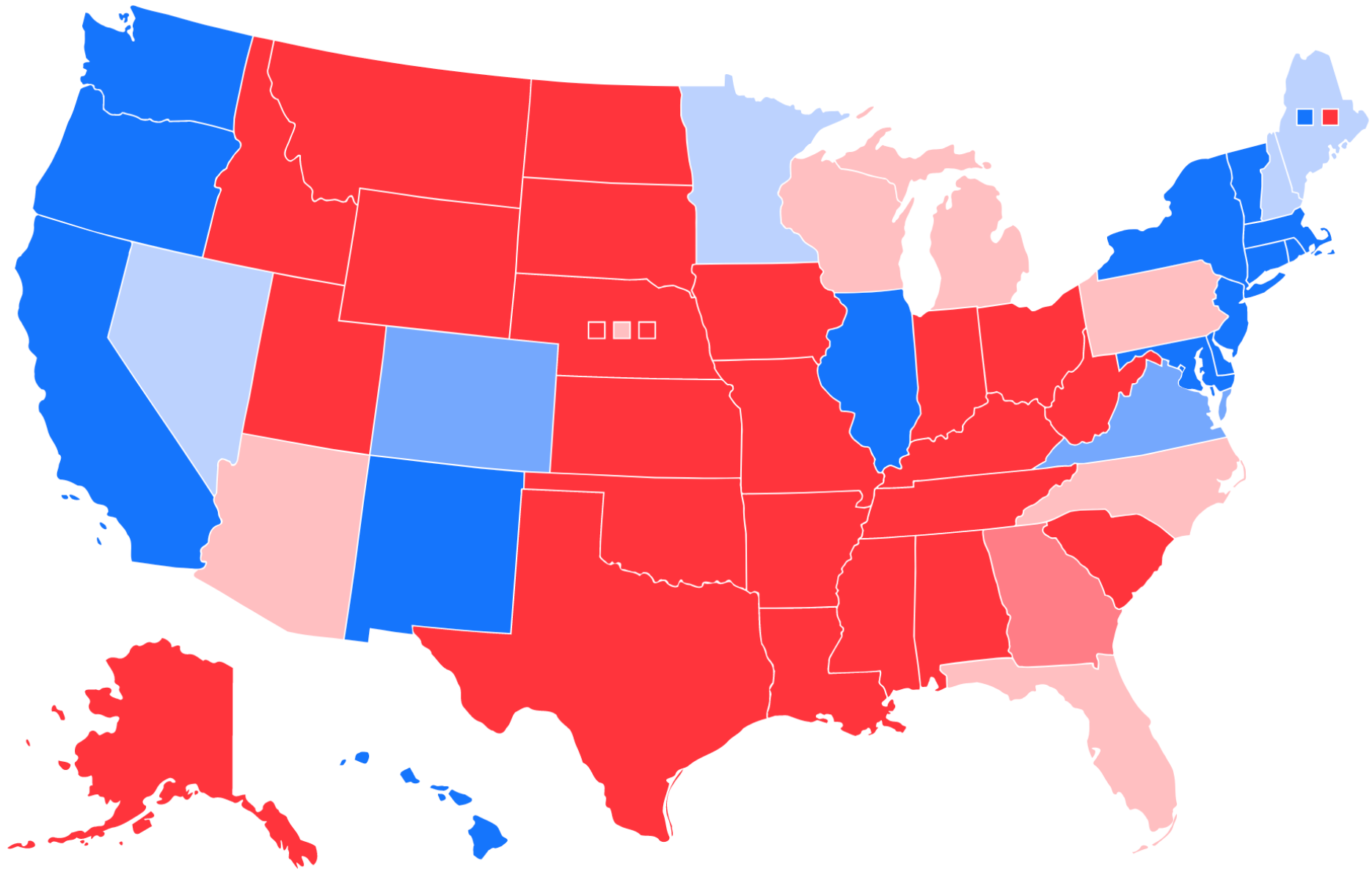
2. Plasma Environment Near Venus

different view of "beautiful world":

Red or **Blue** (or **Green**)



Trump's view 2016 (from 2014)



Moa's thesis: Venus is the key !



beautiful world

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poSitical

European

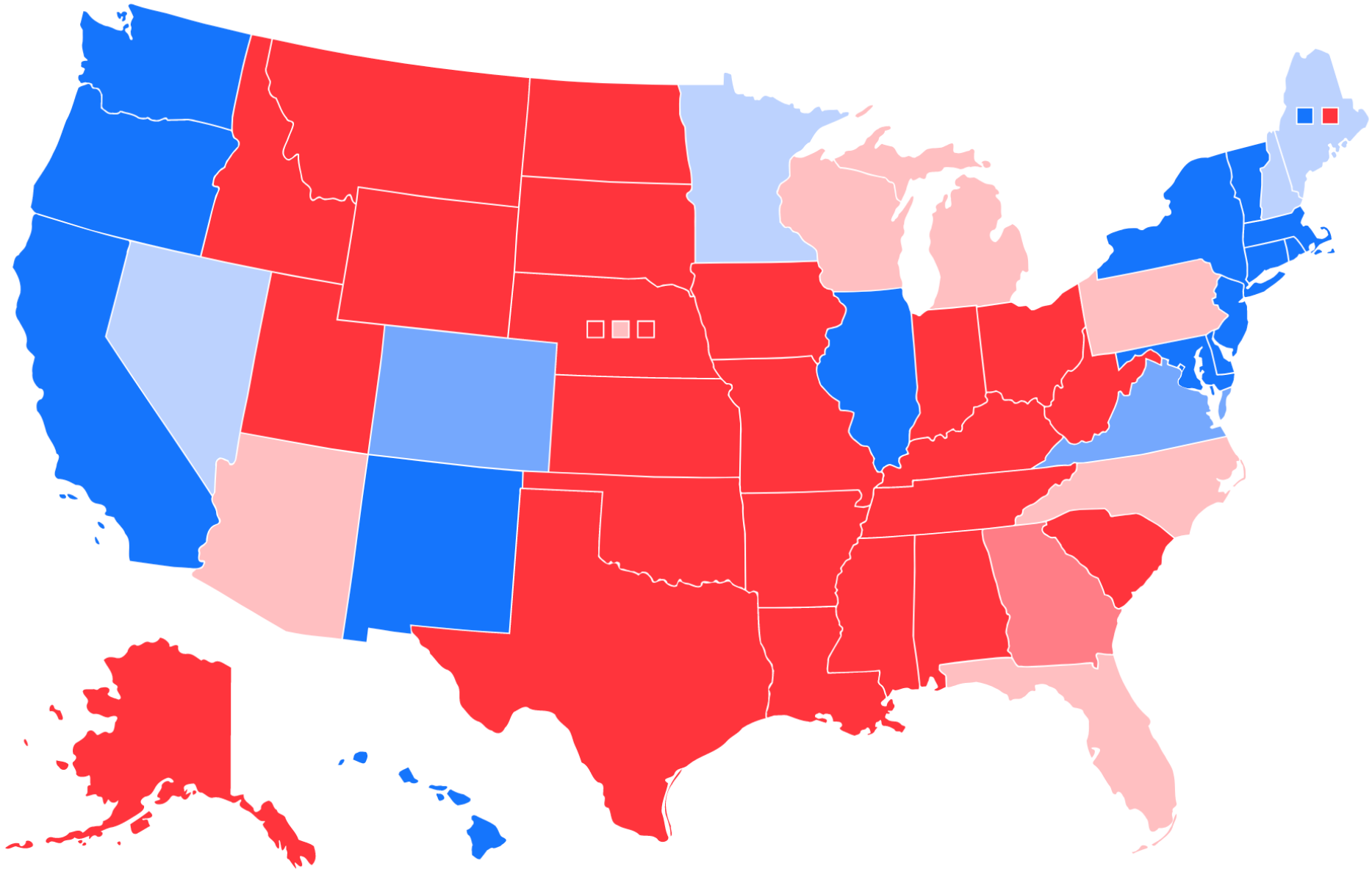
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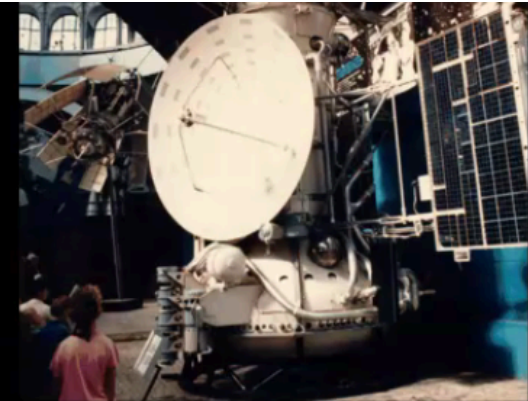
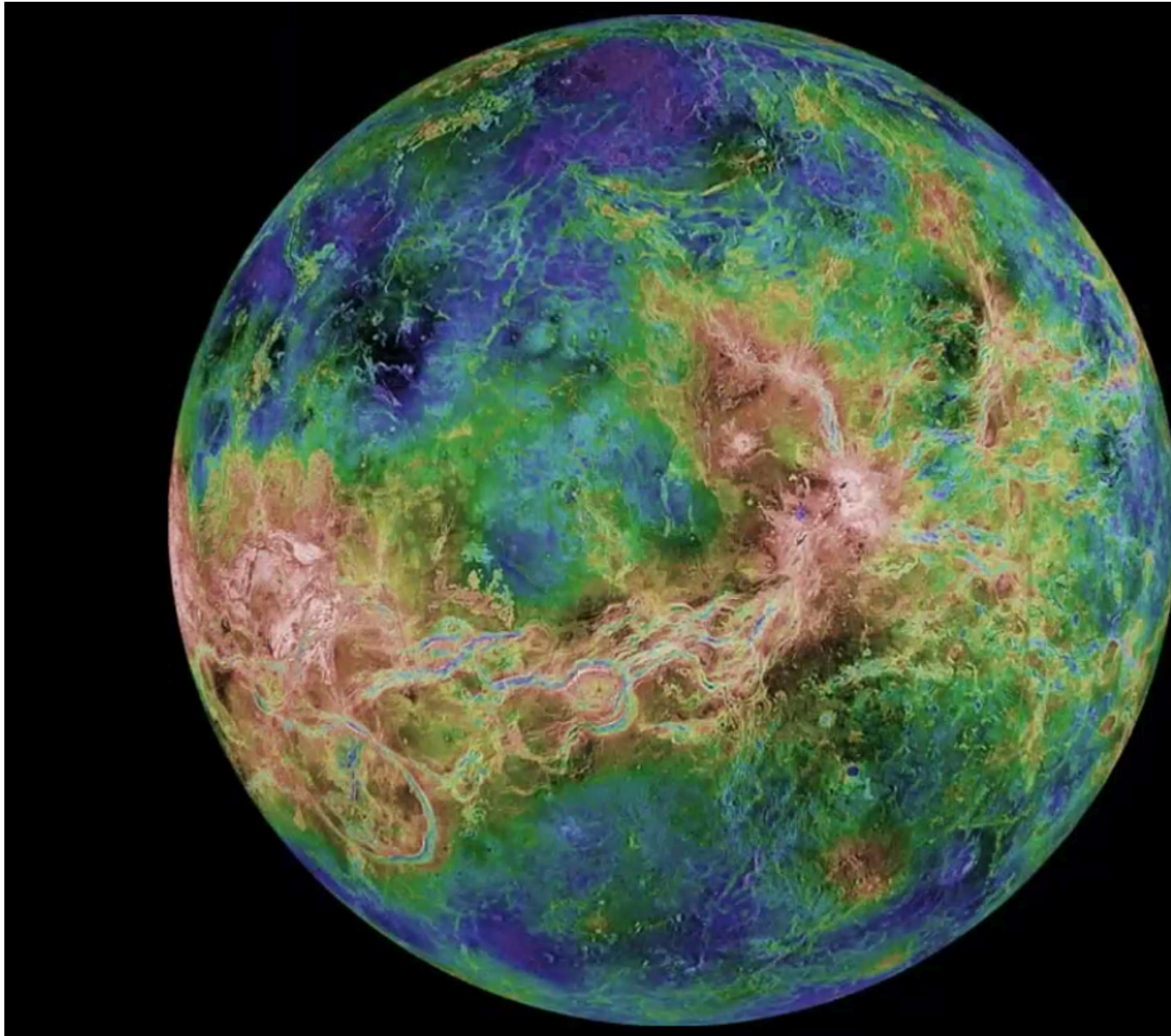
Background: Venus used to be USSR planet



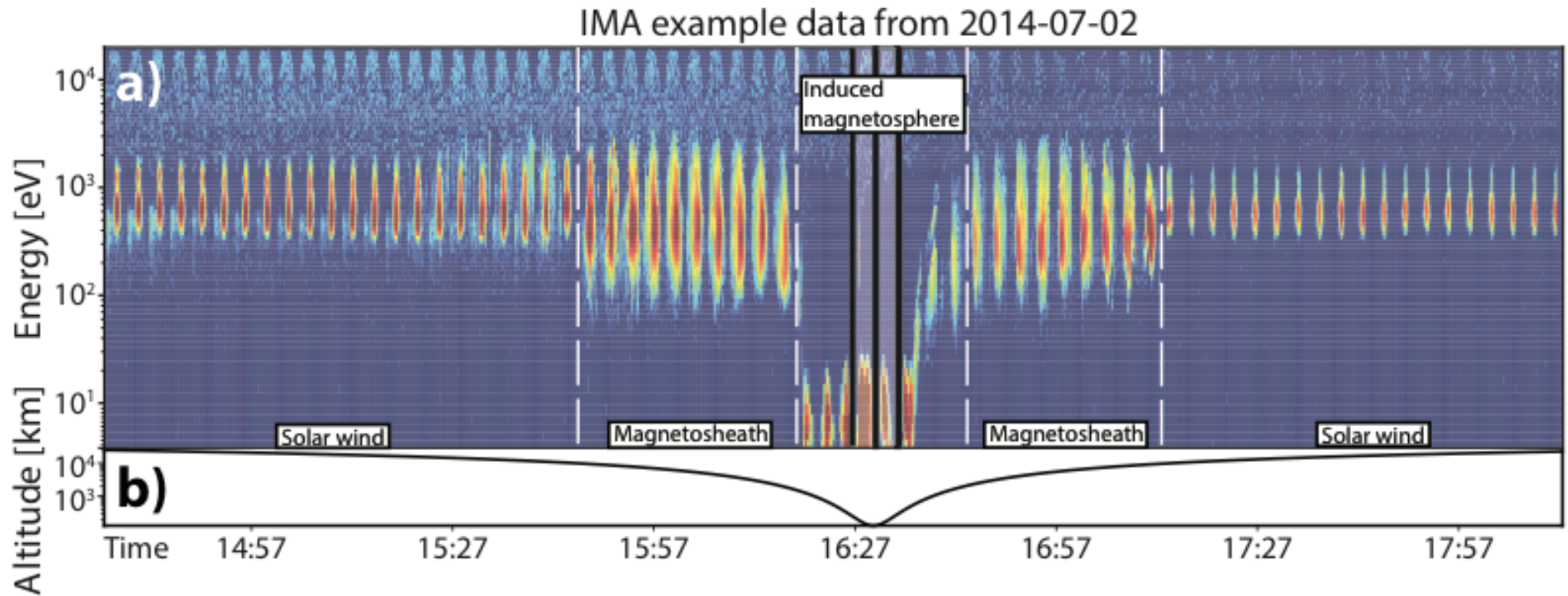
After cold war, **Red = Bush & Trump**



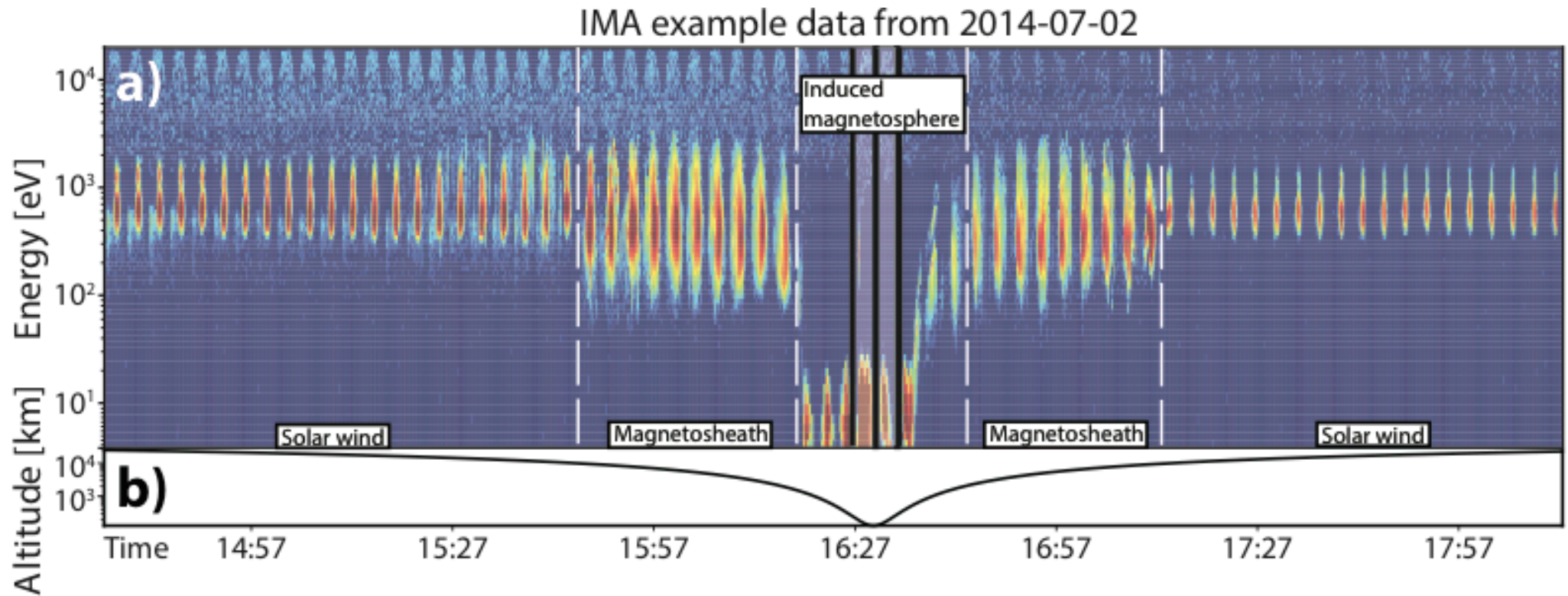
And they thinks **"new continent is mine"**



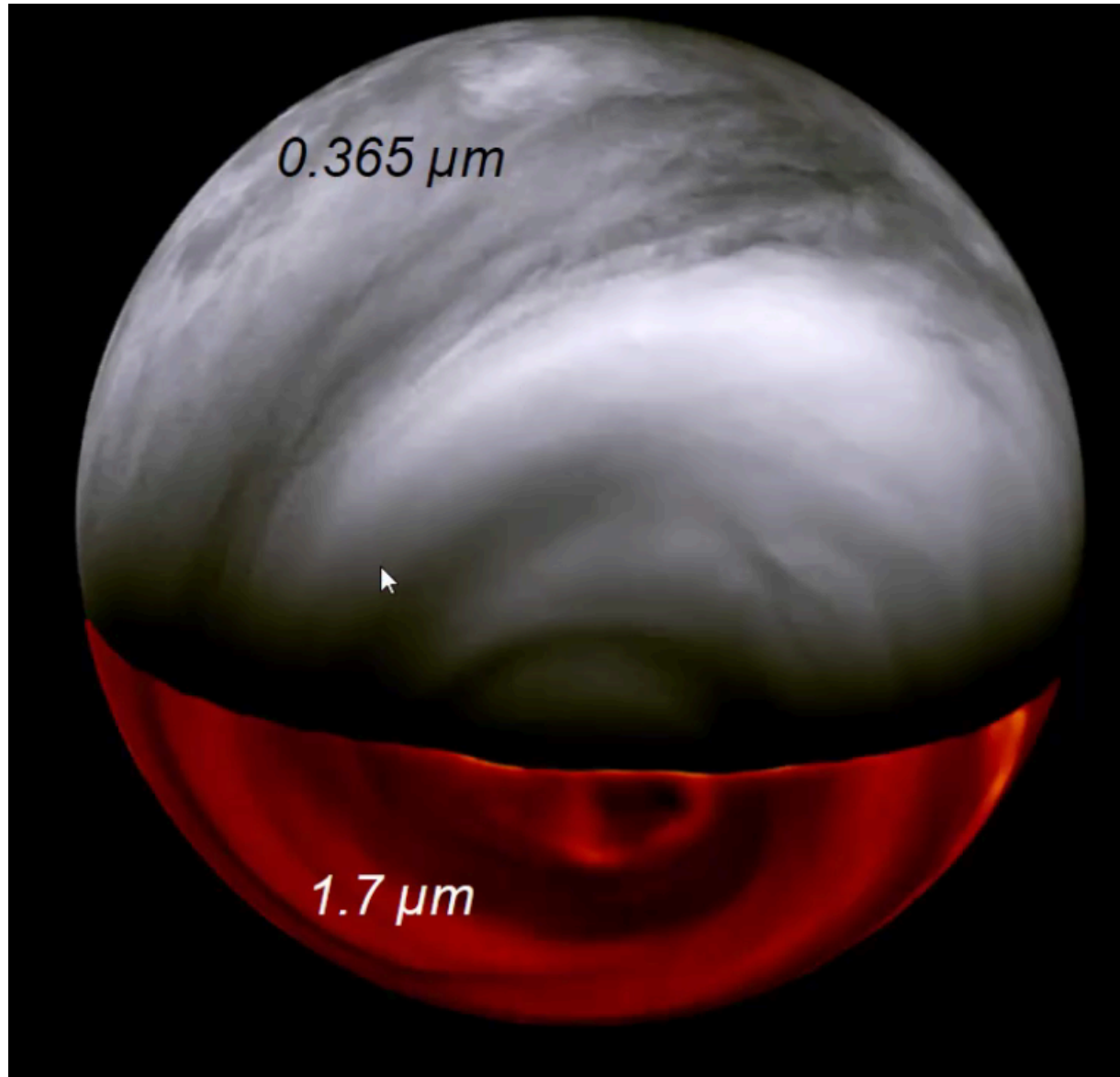
For example, for VEX quick-look data,



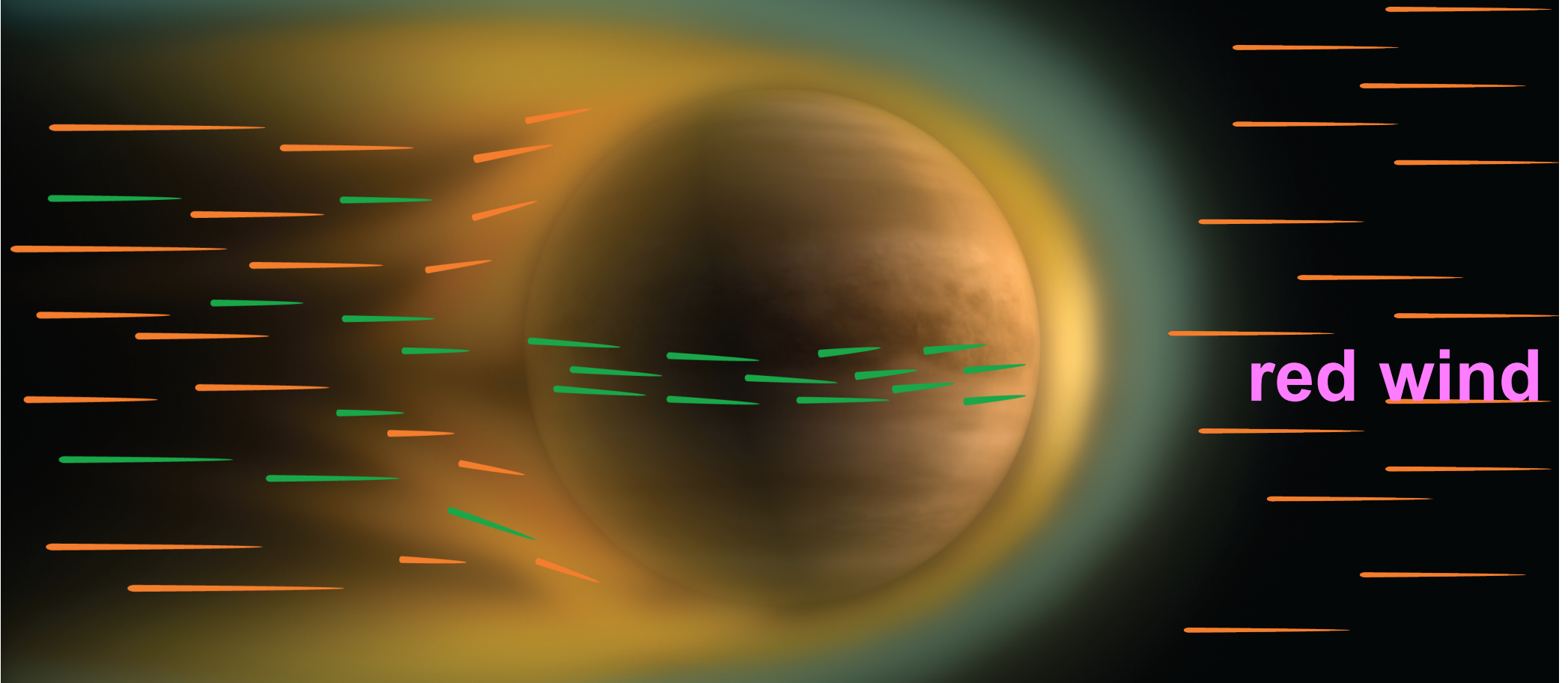
Quick Trump's view of VEX: Re(public)d is enhanced around Venus



Quick Trump's view of VEX: Re(public)d wind is blowing



And in fact **strong Trump wind 2015-2016**

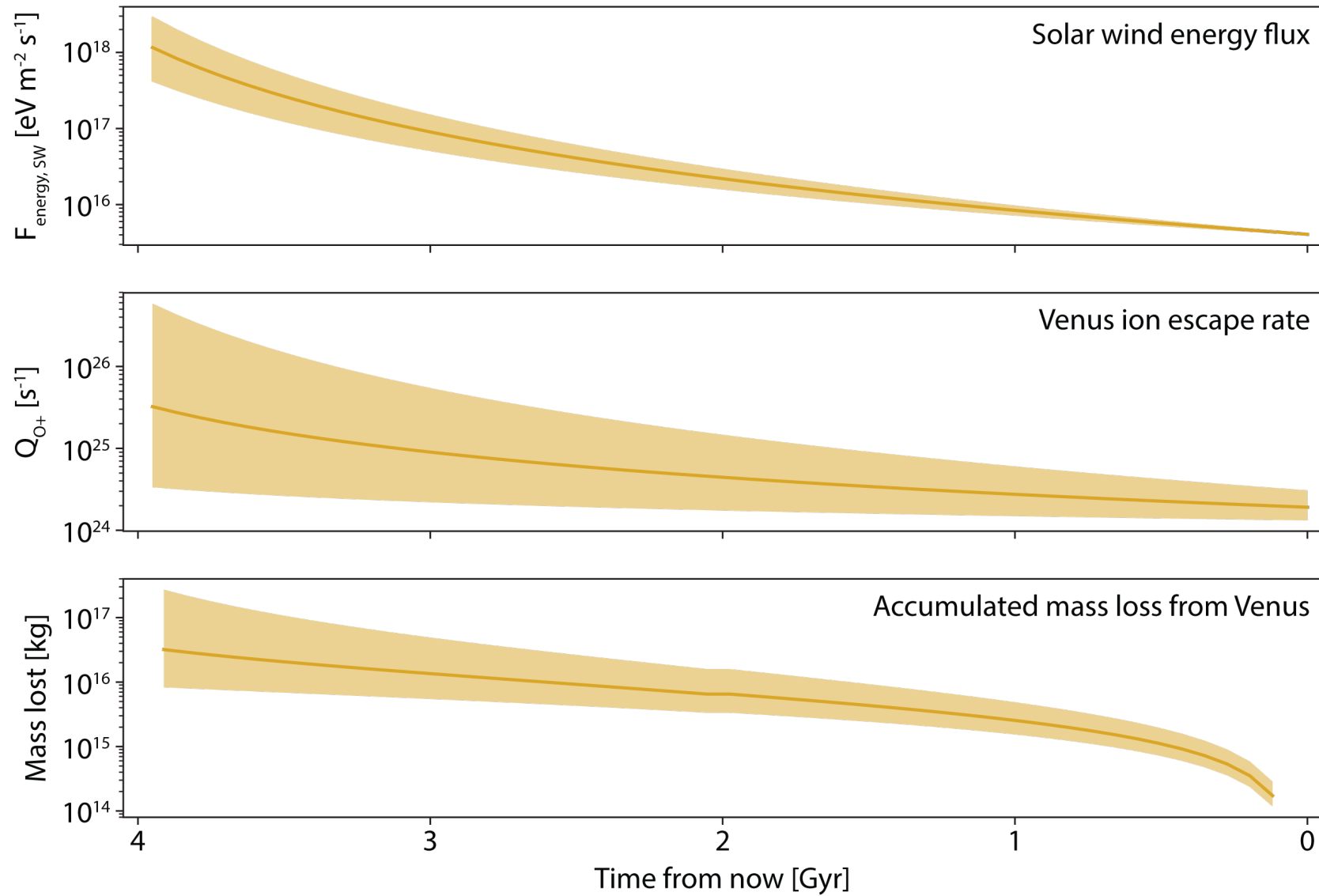


red wind

**Afterward, no conversations.
Just blow with Trump's pressure**

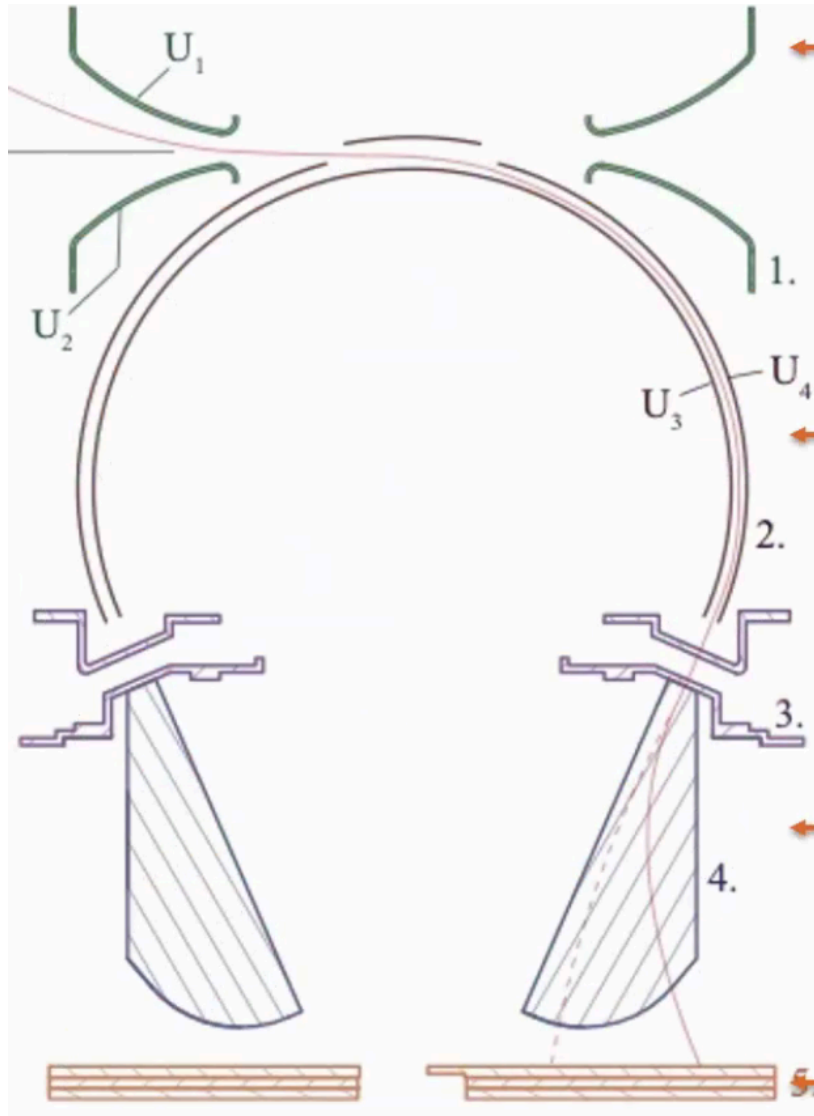
Thus, Moa worries that:

% US president quality

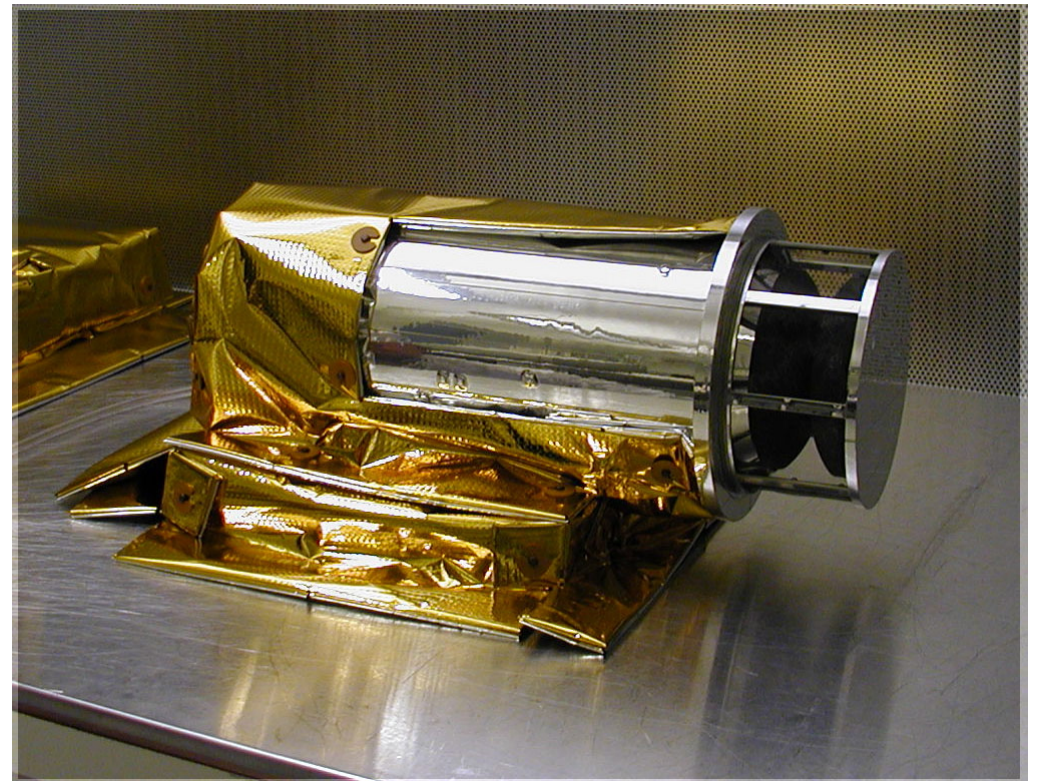


Geological Time

We know **Trump's** view of VEX is just **fake**:
⇒ **Scientist must show truth, by**



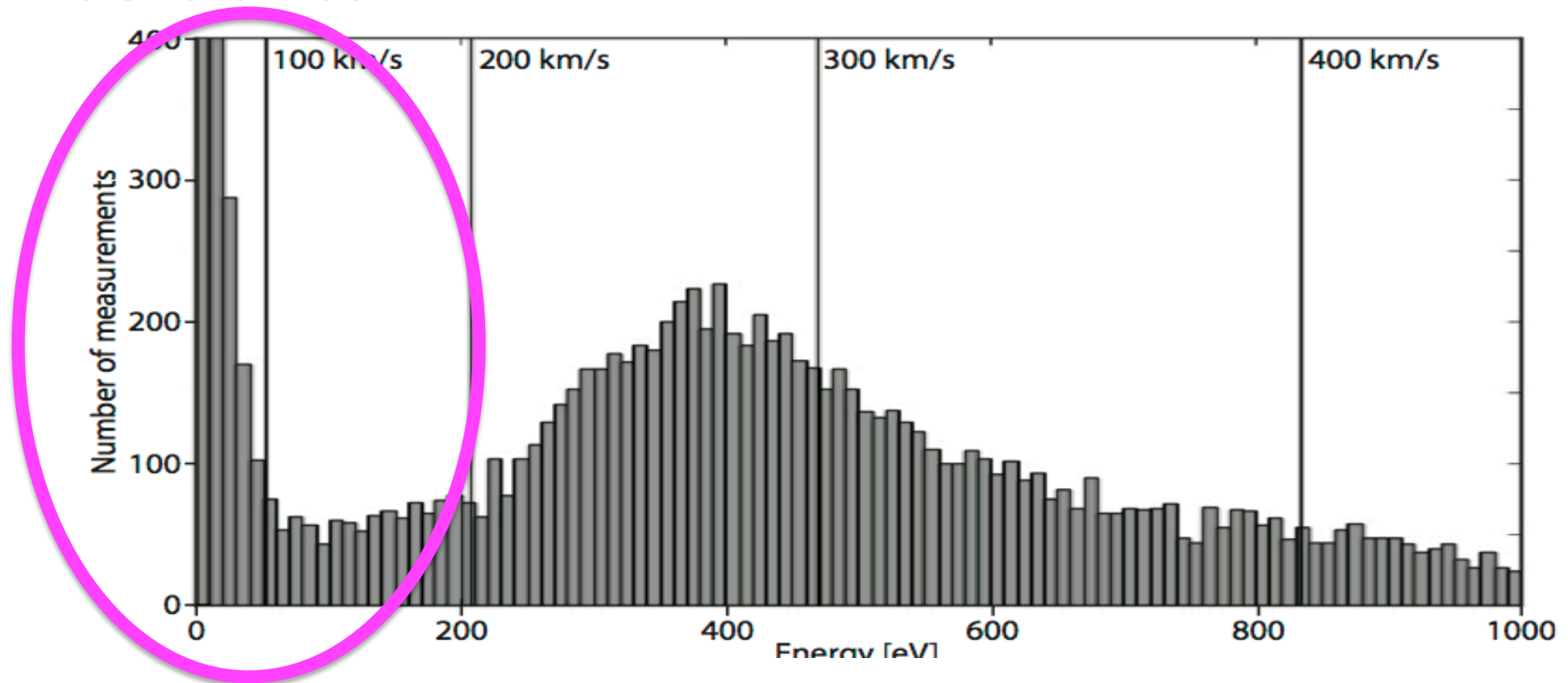
**using right-left
balanced instrument**



We know Trump's view of VEX is just fake:

⇒ Scientist must show truth, by

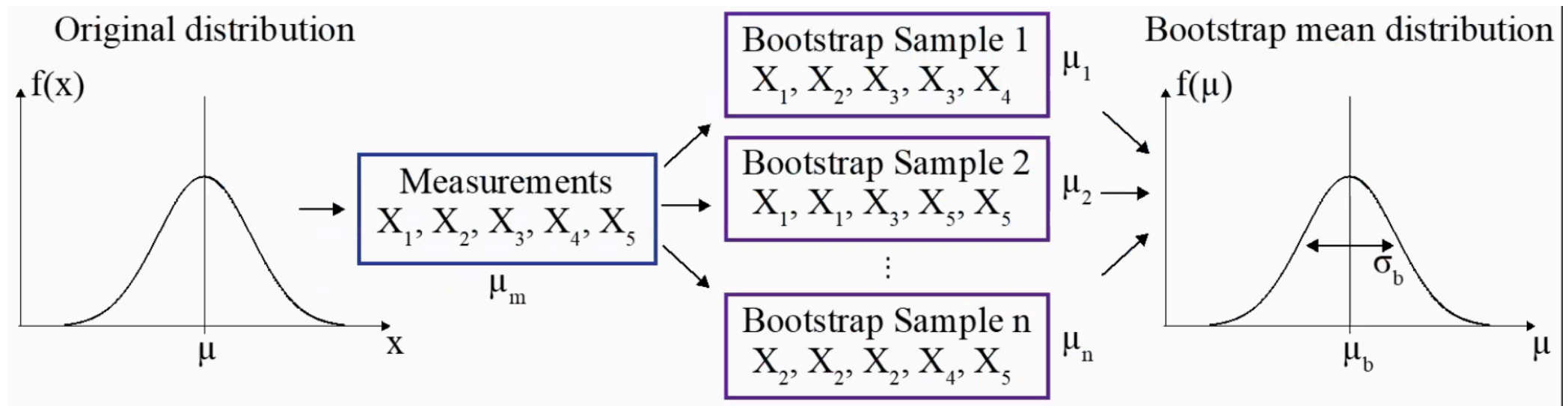
residents



Separating residents' reaction from
super-powers pressure

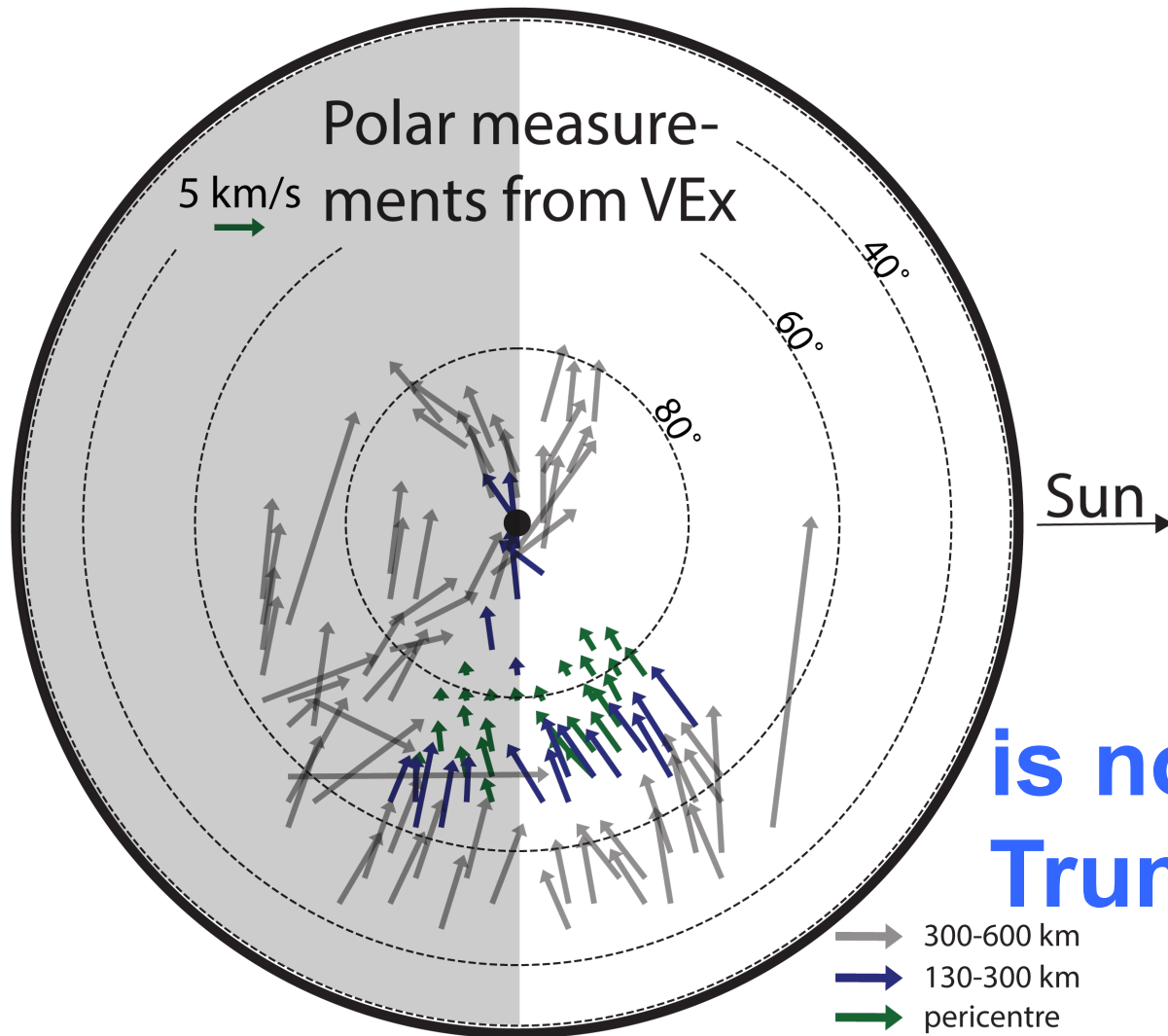
We know **Trump's** view of VEX is just **fake**:
⇒ **Scientist must show truth, by**

**and corrected statistic that even
professors could not digest**

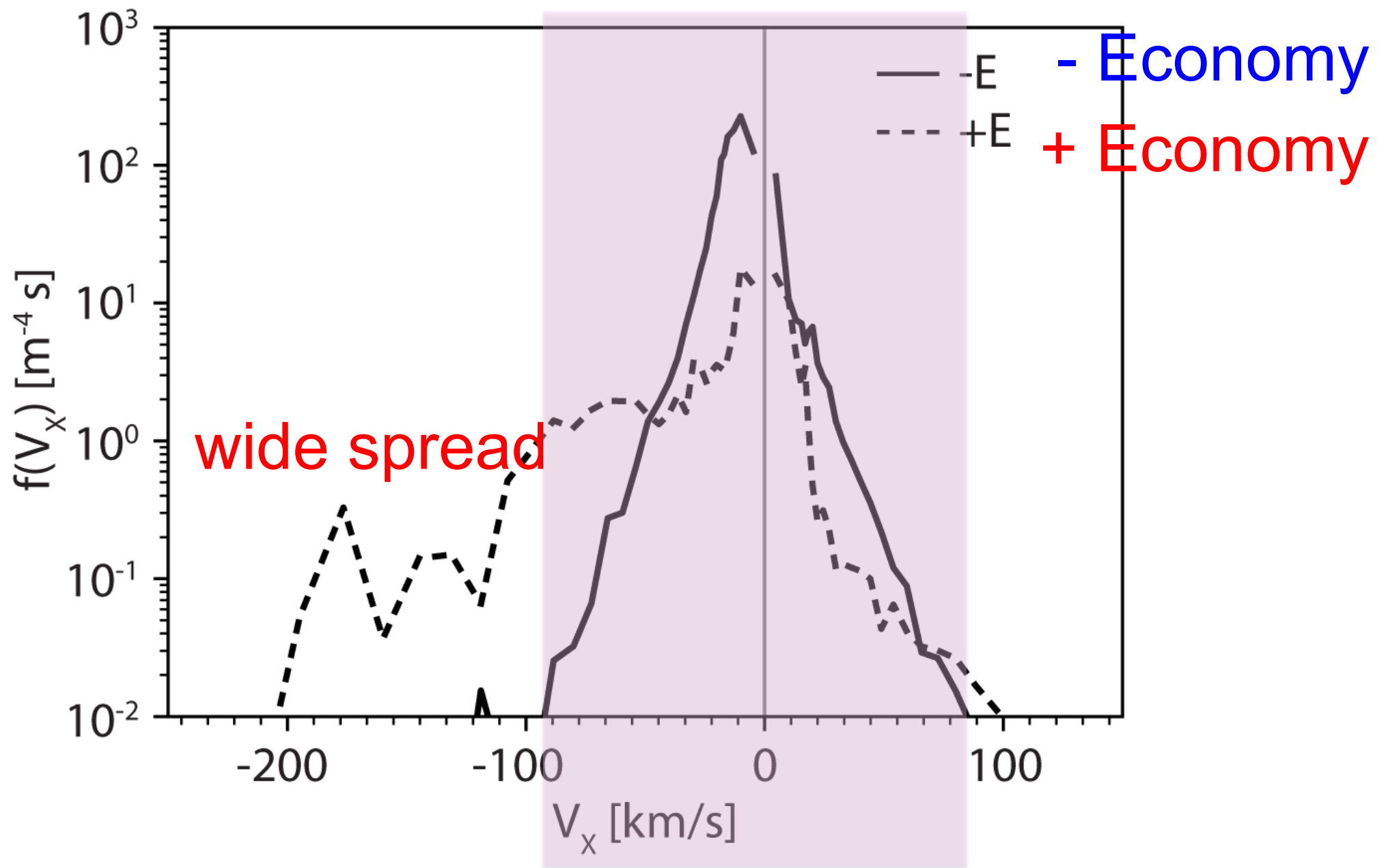


PoSitical Wind

Results

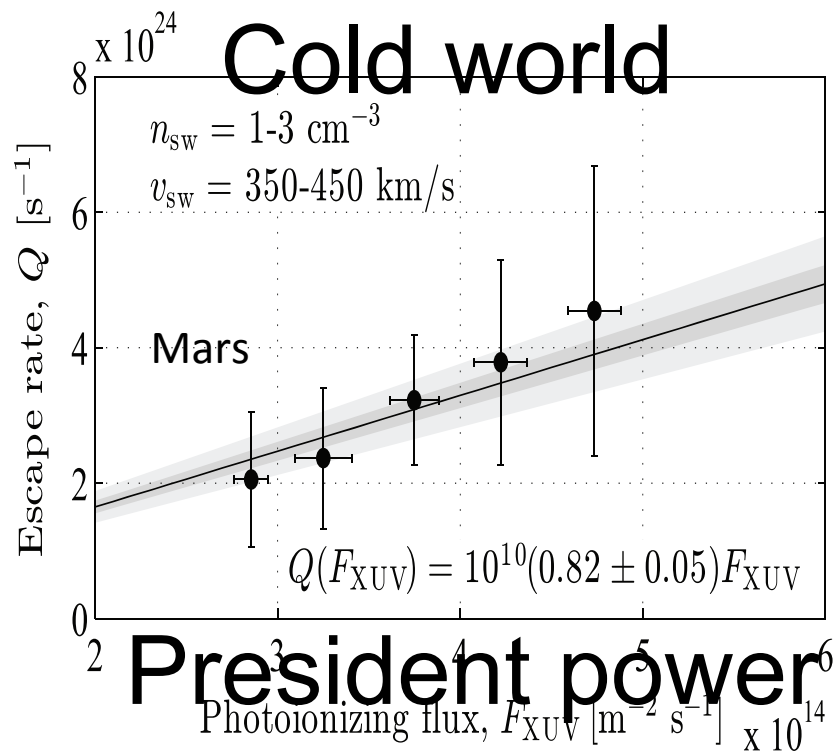


is not always obeying
Trump's super-power

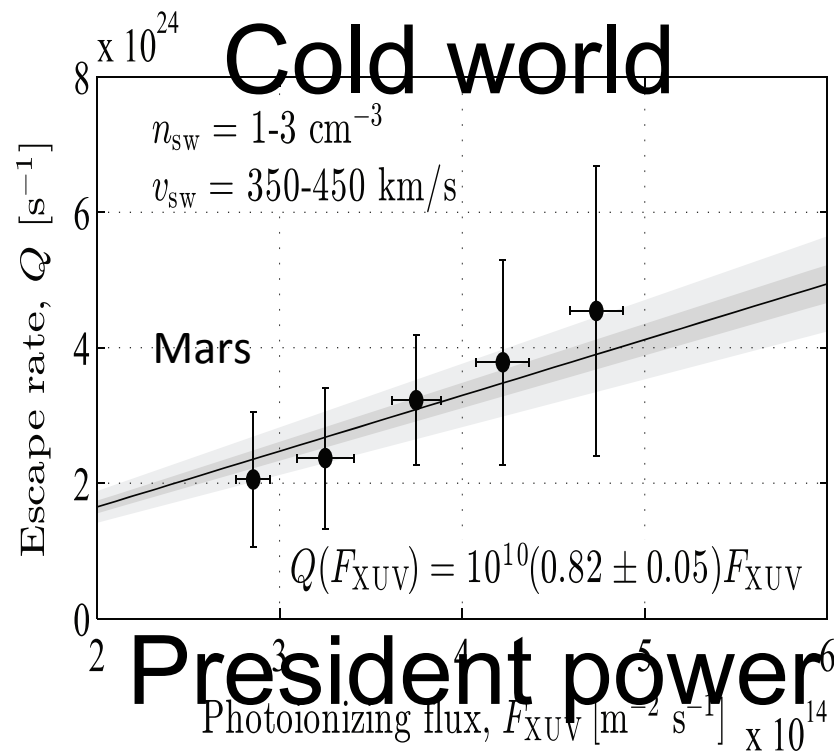


core is the same

obey



obey

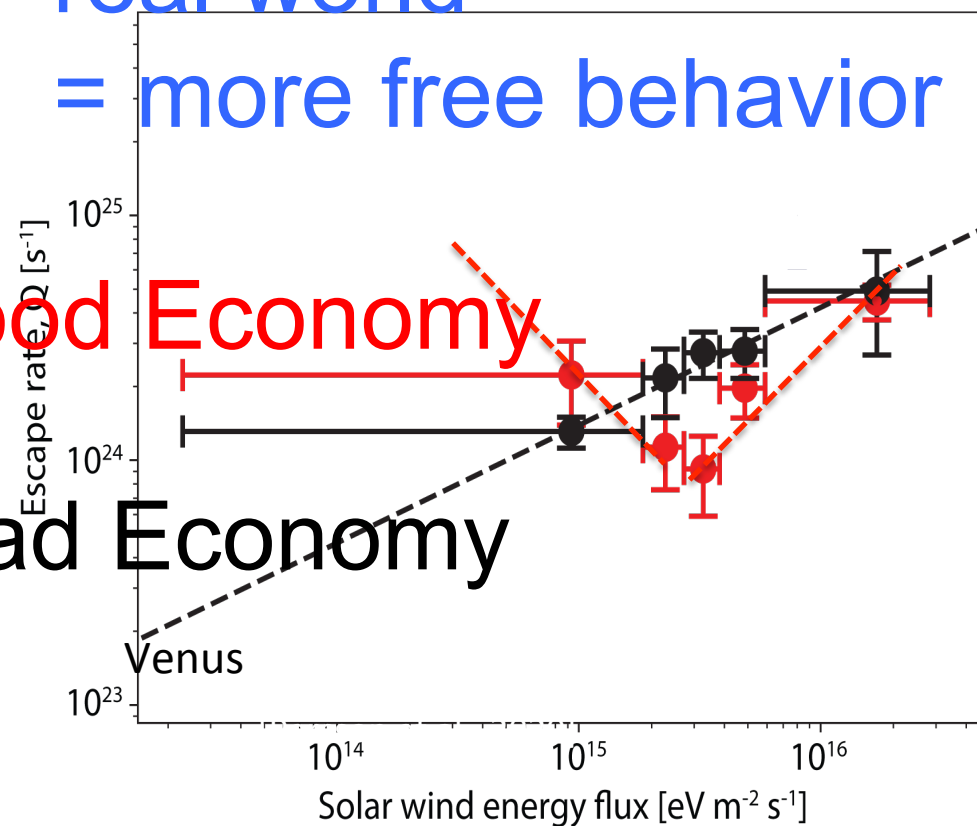


real world

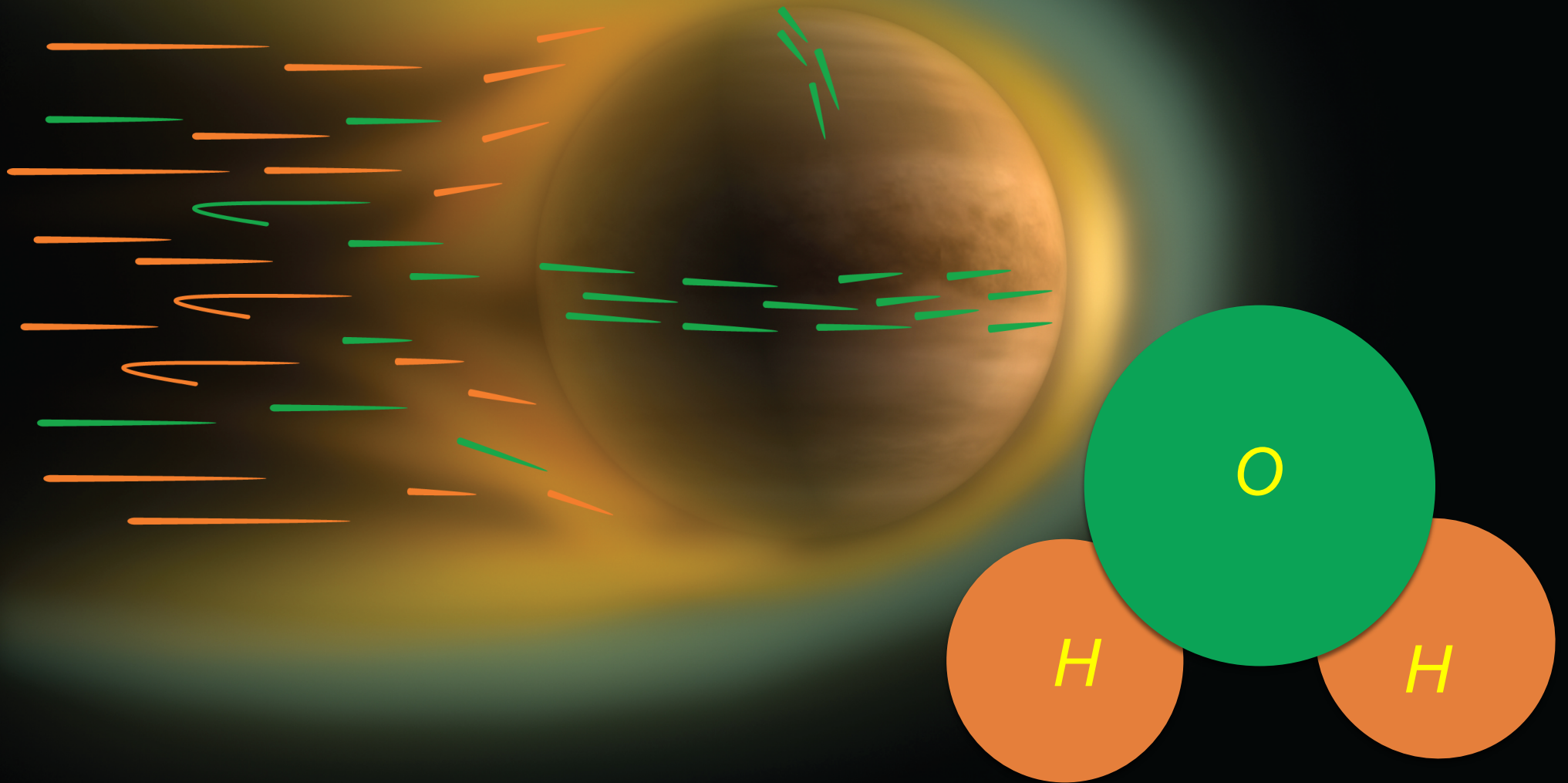
= more free behavior

good Economy

bad Economy



Next question:
Is world becoming more acid or more liberal?



Next question:

Is world becoming more acid or more liberal?

removing H = more acid atmosphere

removing O = more free atmosphere

Next question:

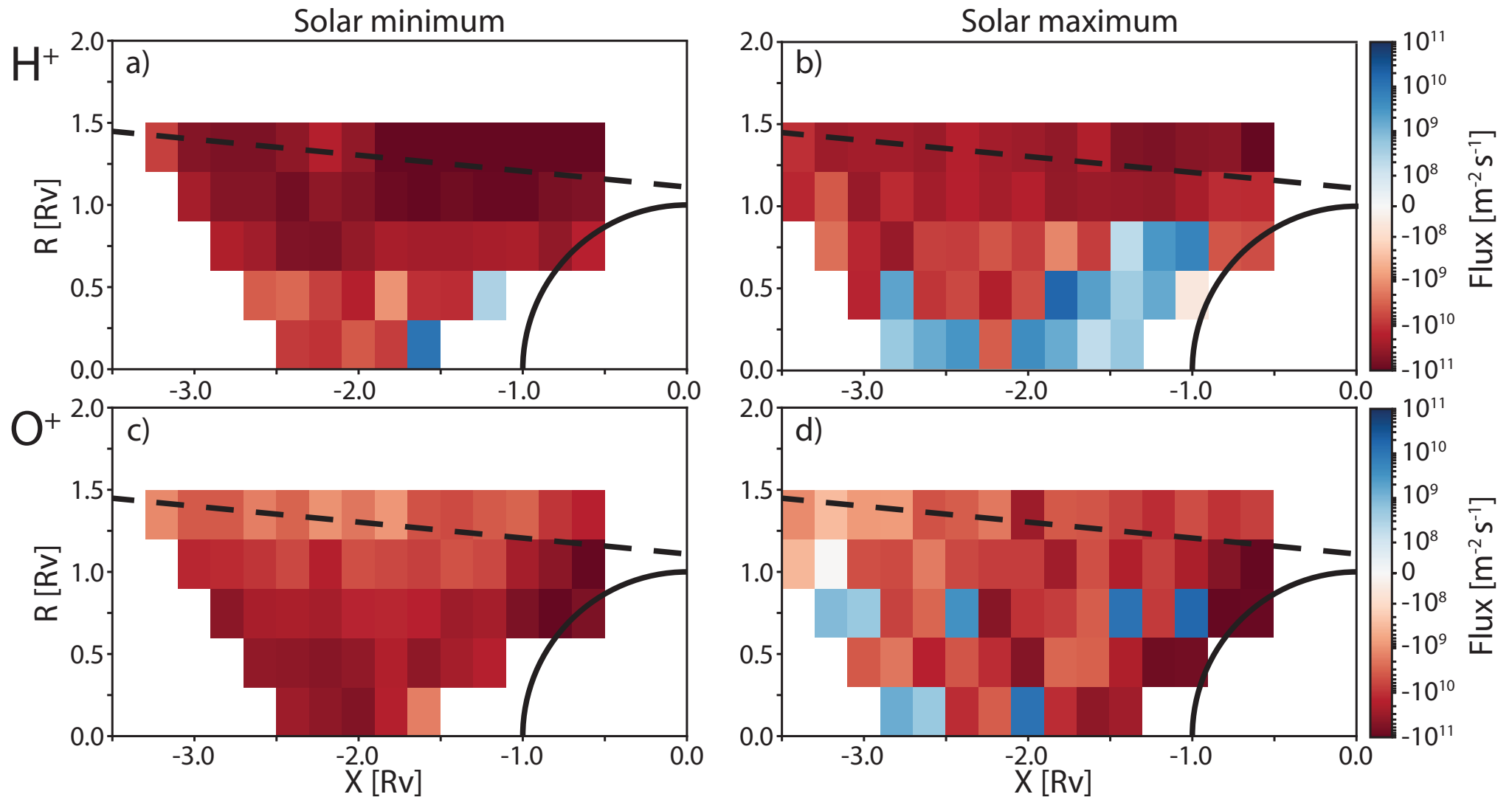
Is world becoming more acid or more liberal?

removing H (~2009) = more acid atmosphere

removing O (2010~) = more free atmosphere

	Solar minimum (2006-2009)	Solar maximum (2010-2014)
H ⁺ escape rate Q_{H^+}, s^{-1}	$(7.6 \pm 2.9) \cdot 10^{24}$	$(2.1 \pm 1.2) \cdot 10^{24}$
O ⁺ escape rate Q_{O^+}, s^{-1}	$(2.9 \pm 1.1) \cdot 10^{24}$	$(2.0 \pm 1.1) \cdot 10^{24}$
Escape rate ratio, Q_{H^+}/Q_{O^+}	2.6	1.1

As the result, PoSitical Wind



may reverse



beautiful world

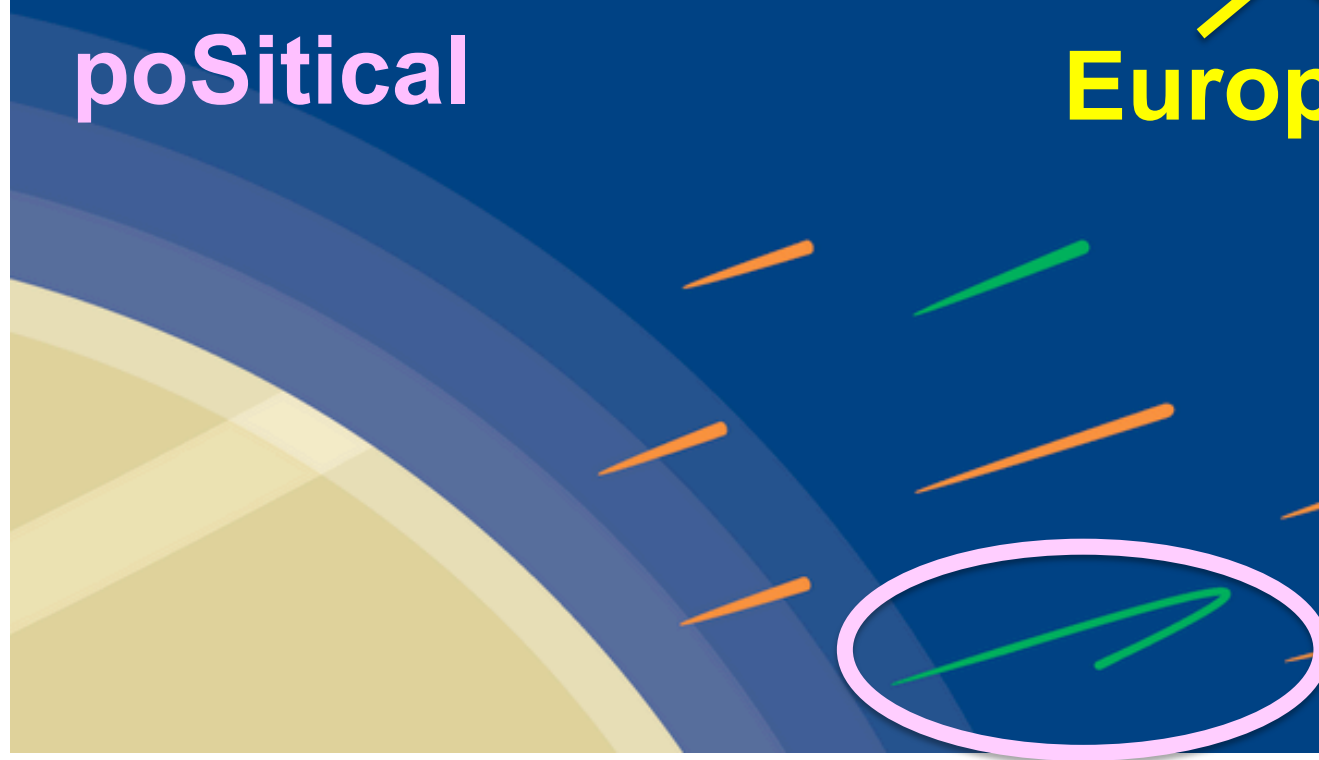
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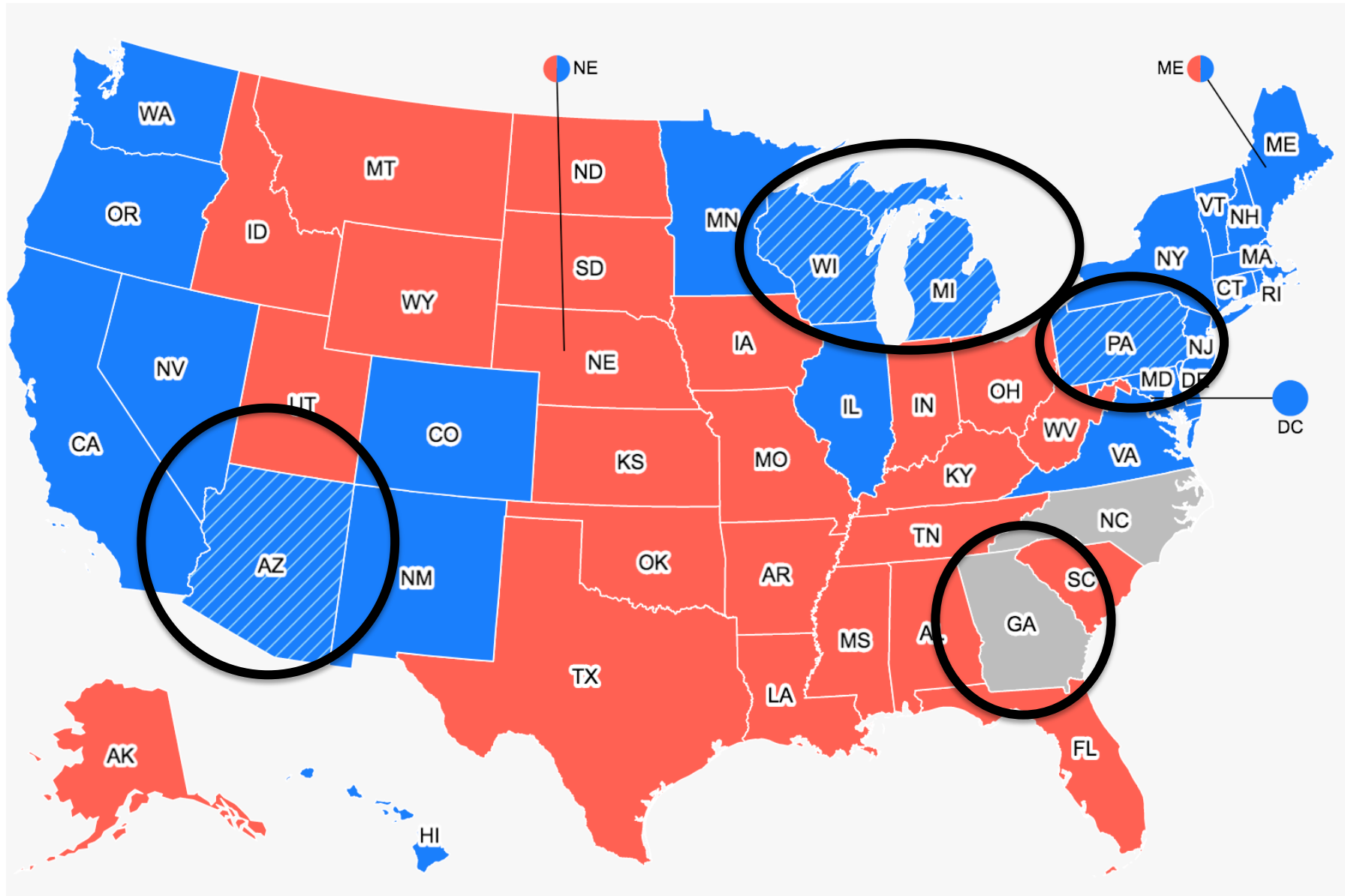
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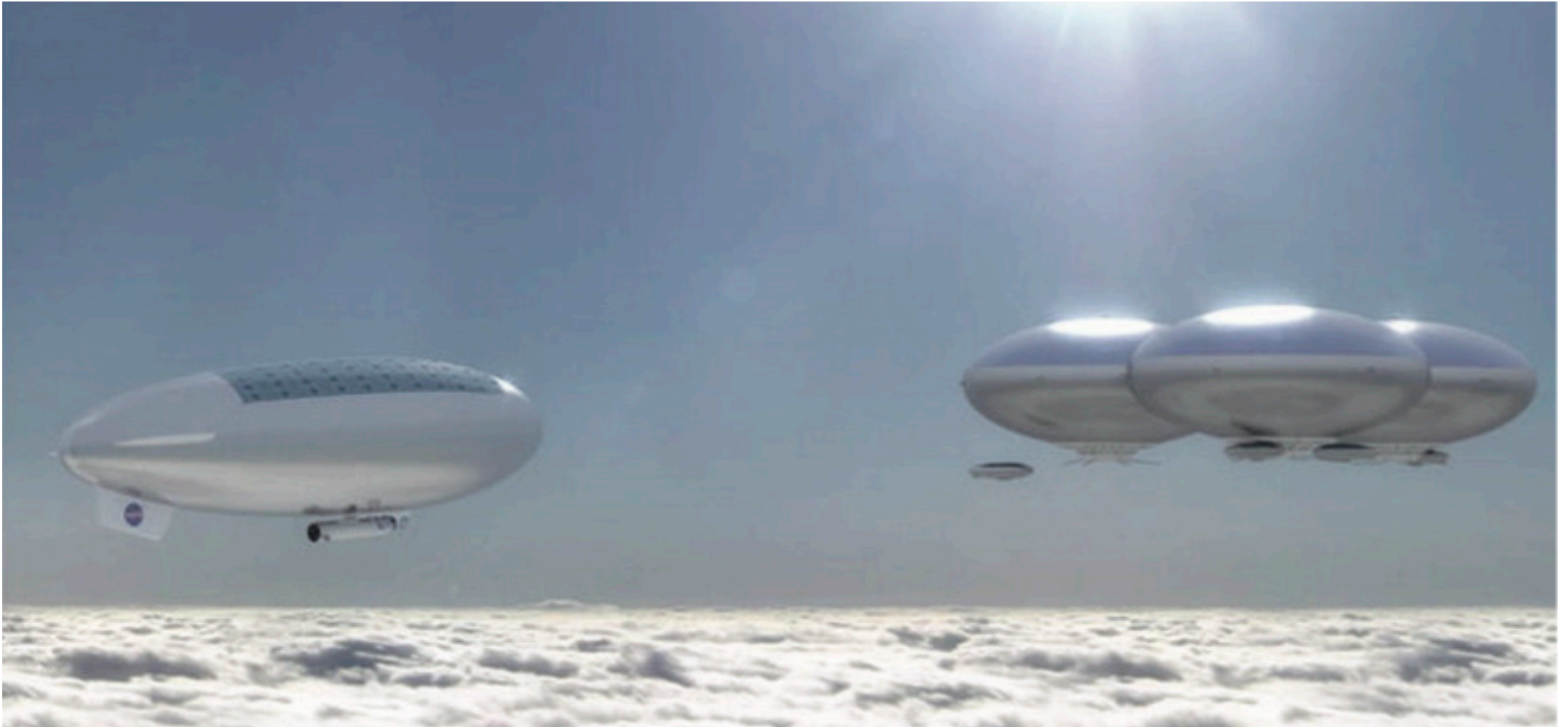
difference from
<2016



To confirm that "wind reverses 2020",
Moa moved her defense to after US election



Future



Molecular Oxygen Atmosphere (MOA) project
to create **snow** on Venus