

# DATA VISUALIZATION IN VIRTUAL REALITY

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WHAT IS VIRTUAL REALITY (VR) ?









# ARE WE IN THE FUTURE YET?



# HEAD MOUNTED DISPLAYS



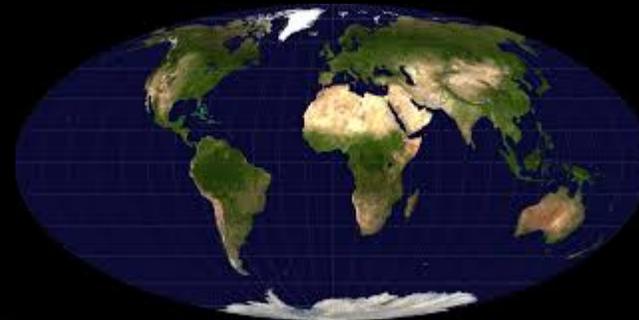
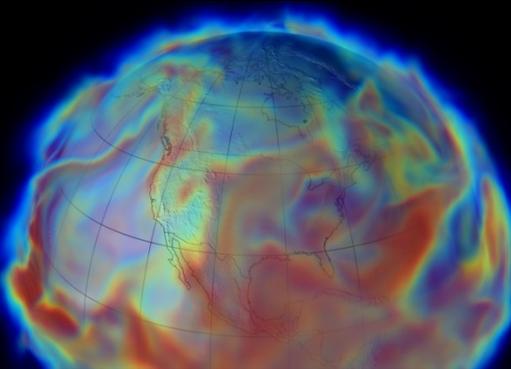
DON'T WORRY, THEY'LL GET COOLER

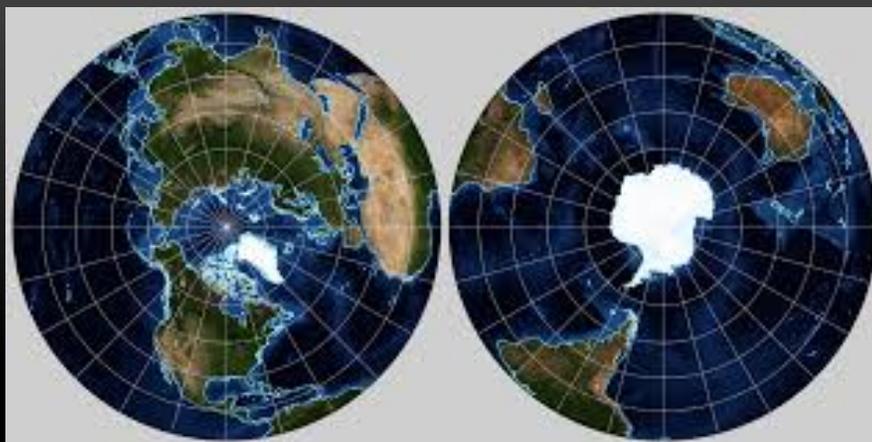




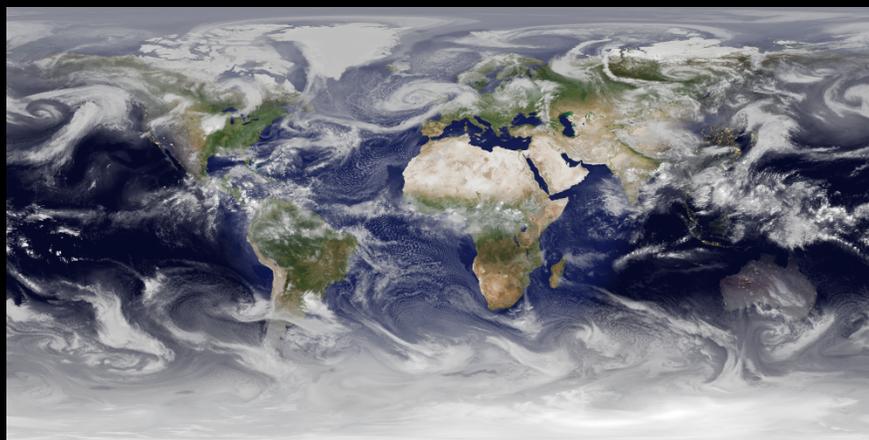
THIS IS COOL.....WHERE'S THE DATA?

# TRADITIONAL 2D VISUALIZATIONS



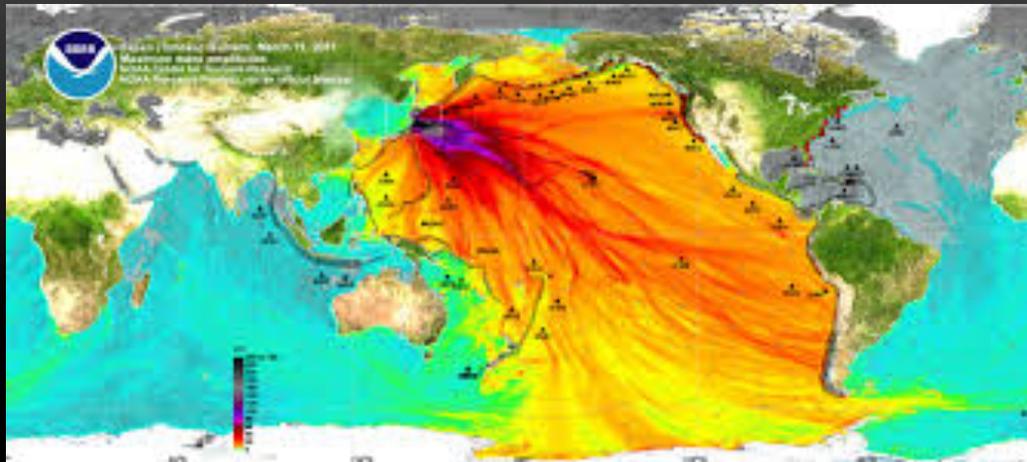


## BIG DATA, EARTH-SPANNING DATA



WHAT IF DATA COLLECTED IN A SPHERE COULD  
BE VIEWED IN A SPHERE?

YIKES



## INITIAL FEEDBACK FROM NOAA

**“The VR Visualization Tool provides a natural way of visualizing model outputs without any of the distortions that occur when transforming a 3 dimensional surface into a 2 dimensional plane. All the geographical features visualized through the device represent a depiction very close to the real system conserving the original proportions.”**

**Ariel Stein, Ph.D.**

NOAA / Air Resources Laboratory



# NASA ESTO PROJECT

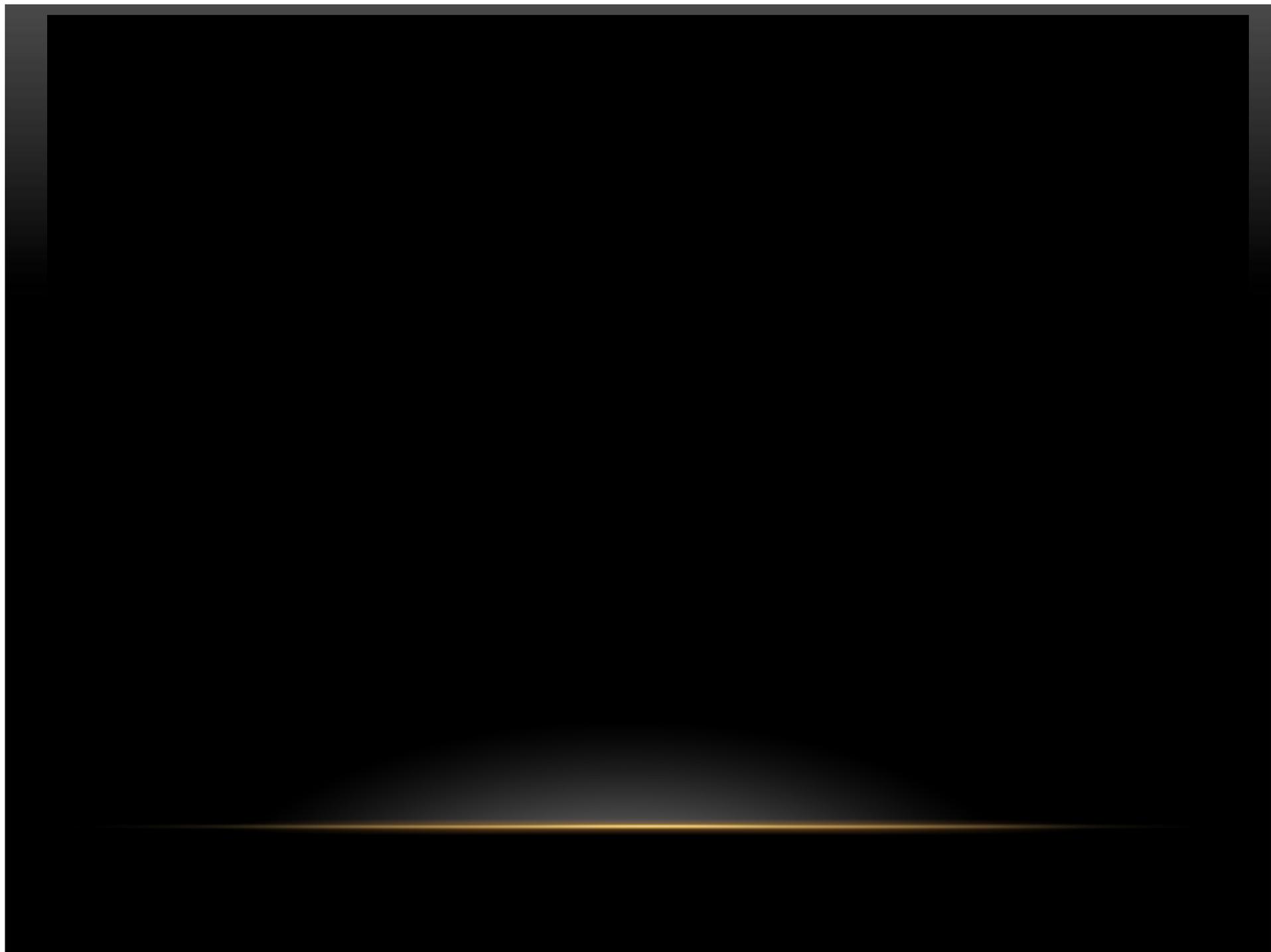




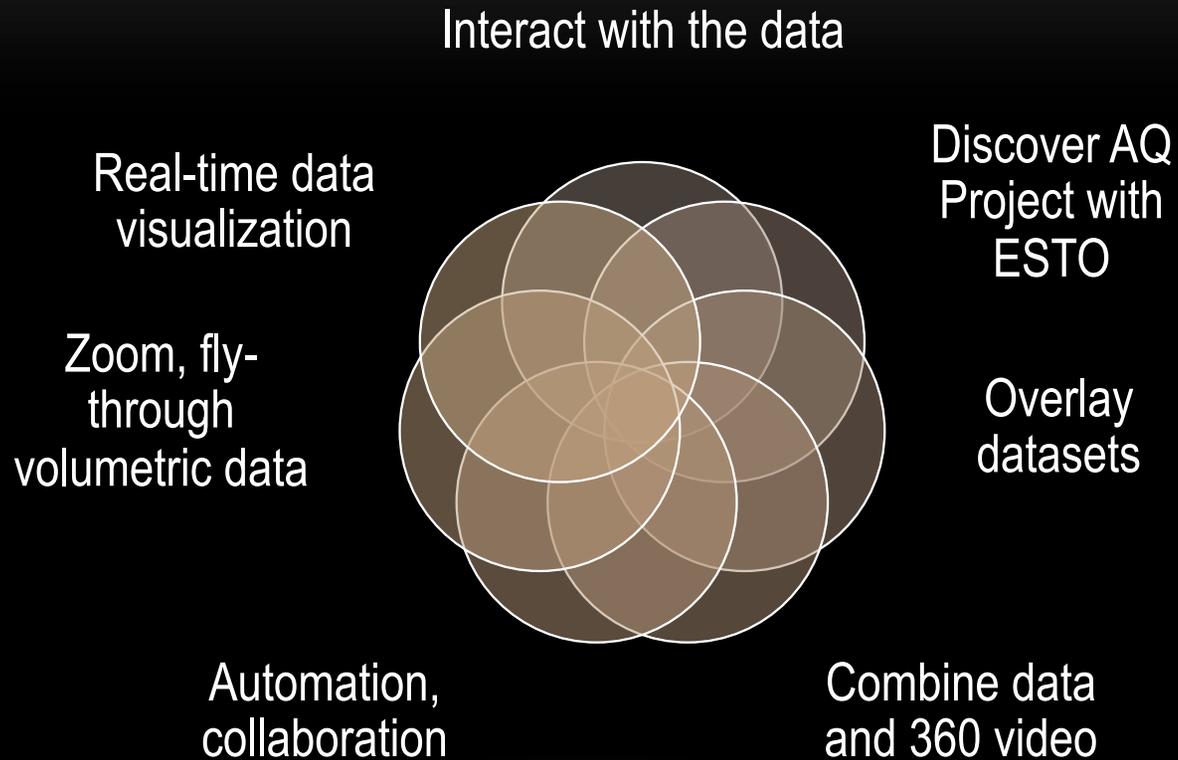
## AGU FEEDBACK

- Lightweight
- Portable
- Adaptable
- The WOW factor
- Huge driver of booth traffic
- Engaged the public (both scientists and muggles)
- Inspired ideas for science and collaboration





# WHAT'S NEXT?





THANK YOU!  
STAY FOR DEMOS.....



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