

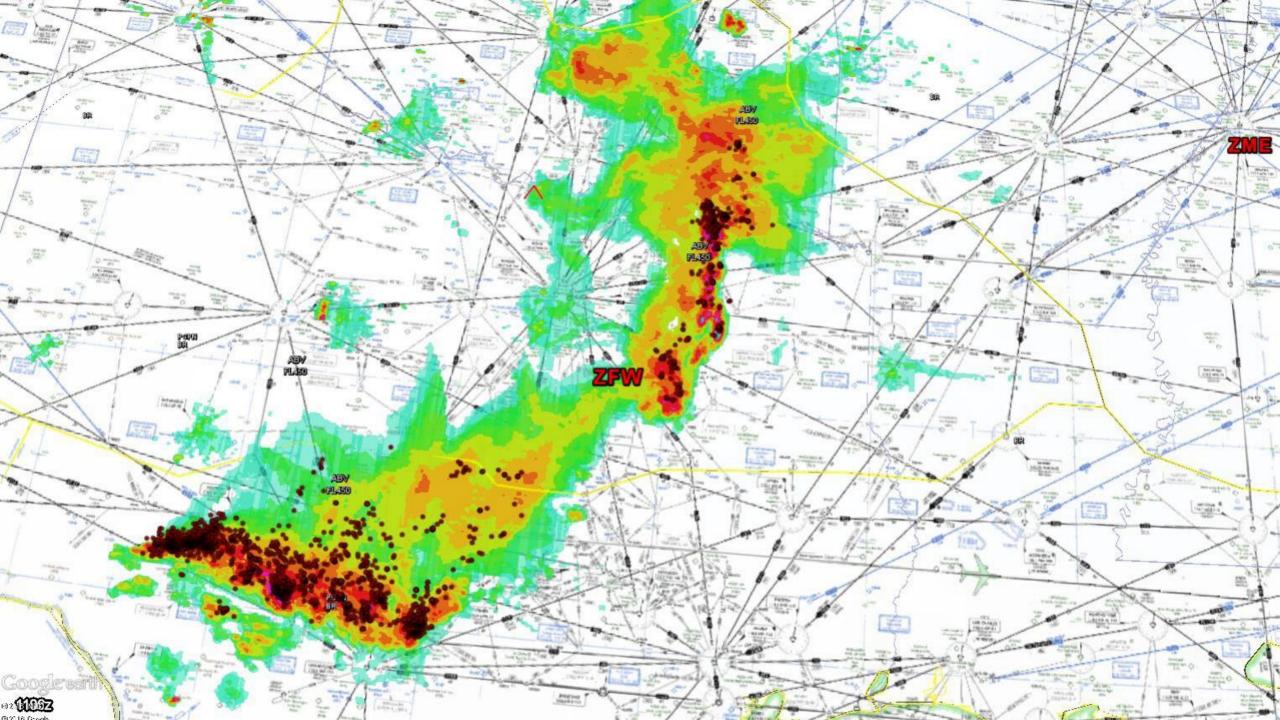
ALOHA!

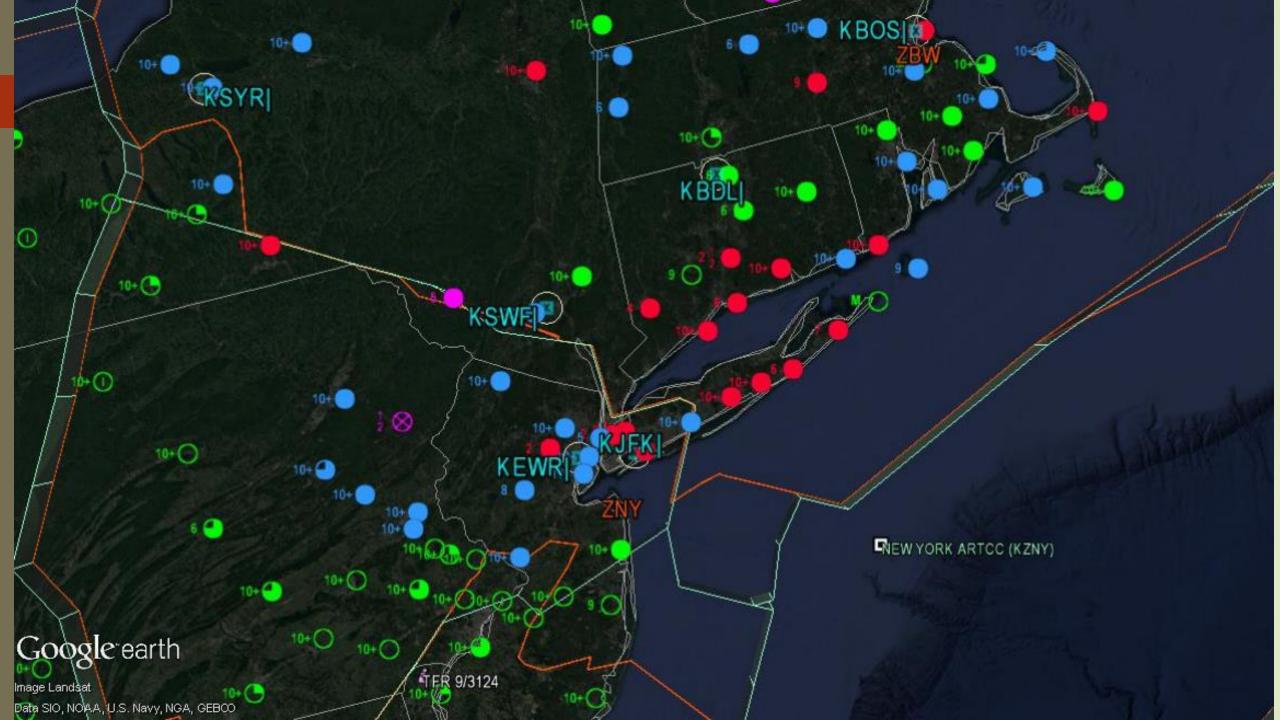
Presentation by Mark Spence President/CEO WxOps Inc

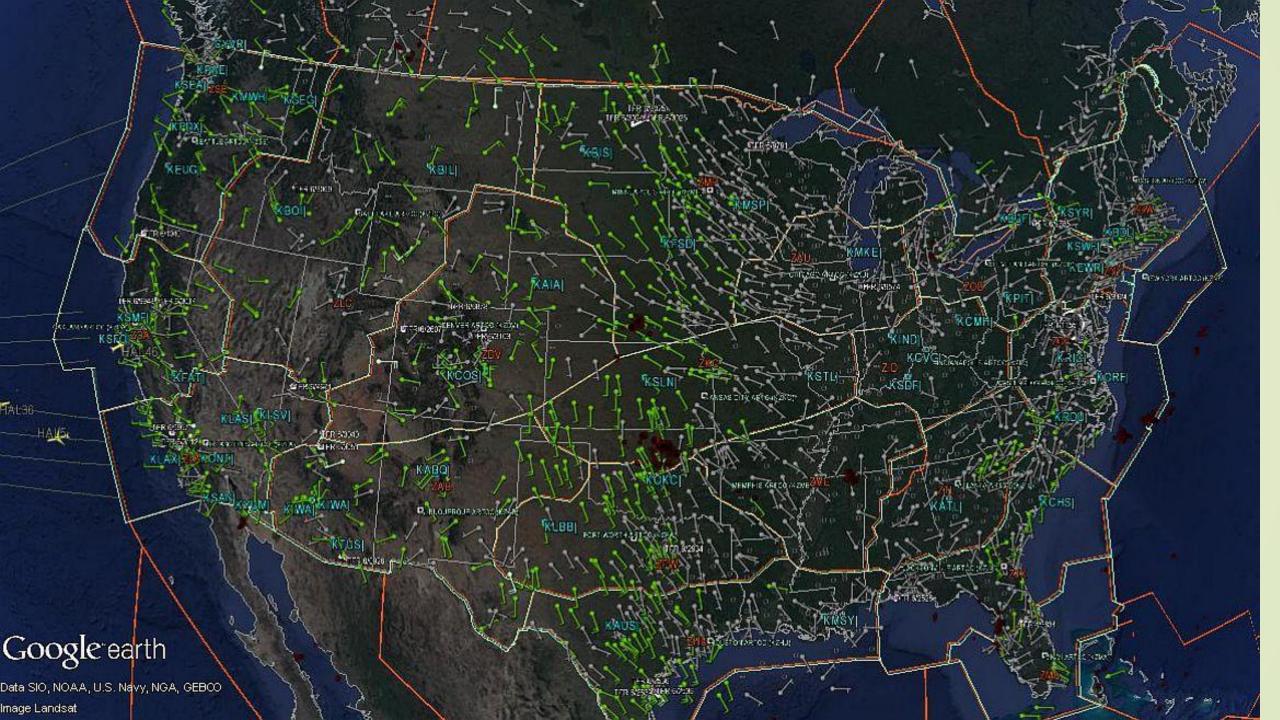
#### GEOSPATIAL AND THE EFB CONNECTED AIRCRAFT

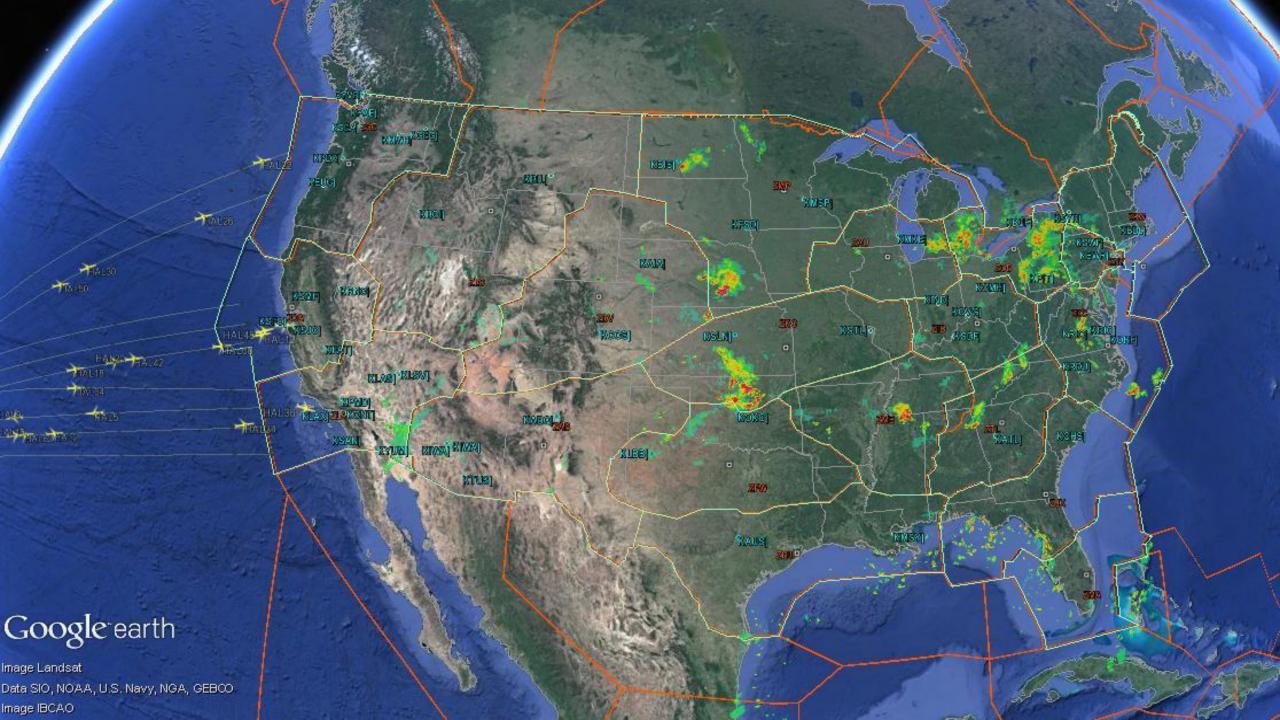


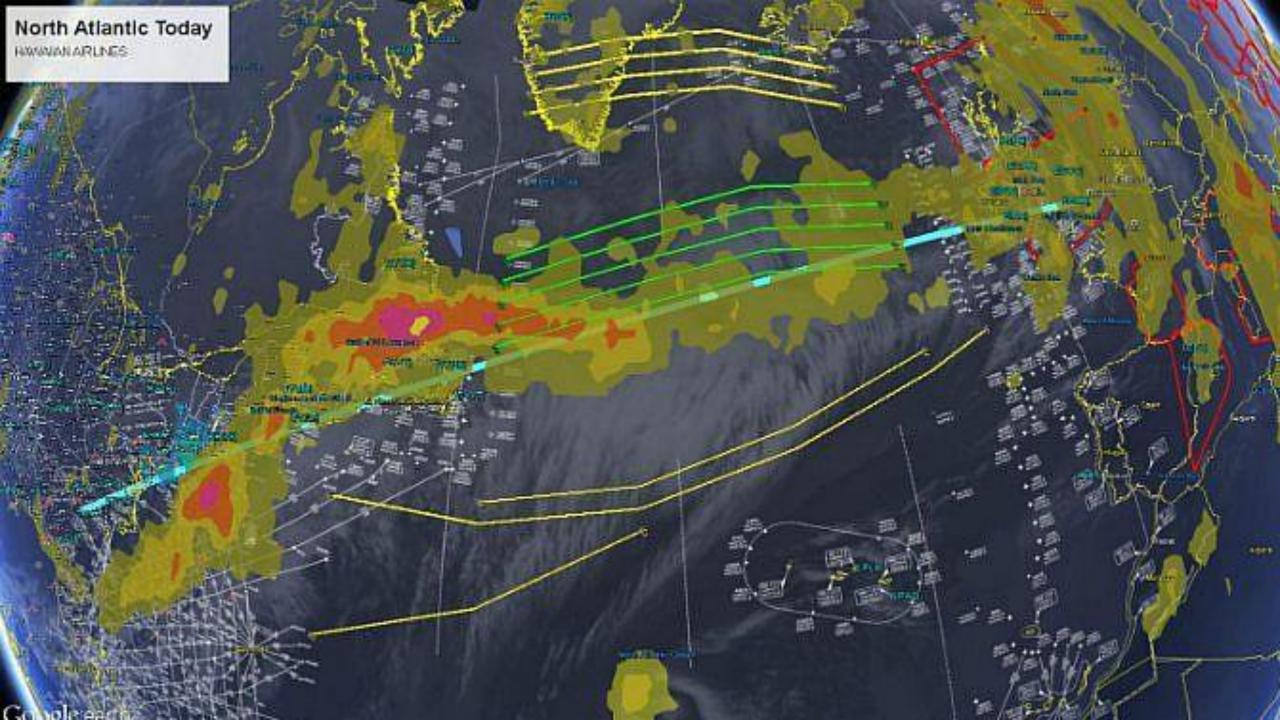
# Pre-flight ...



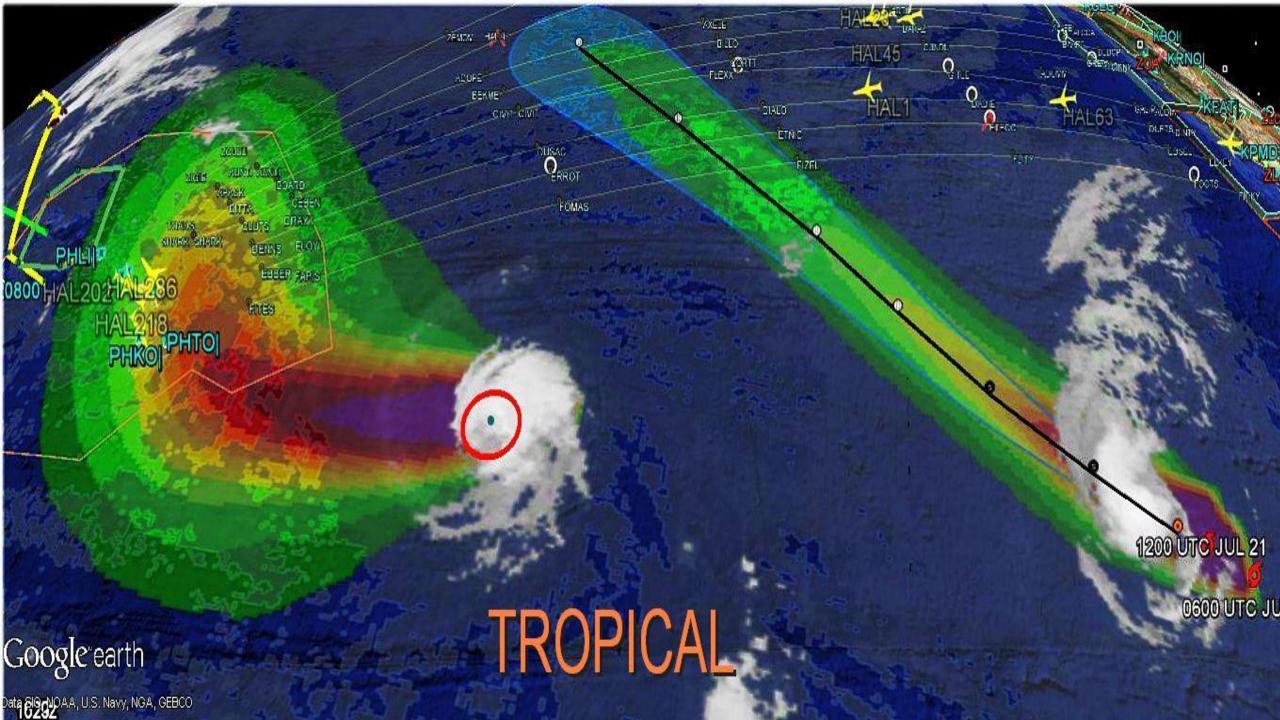






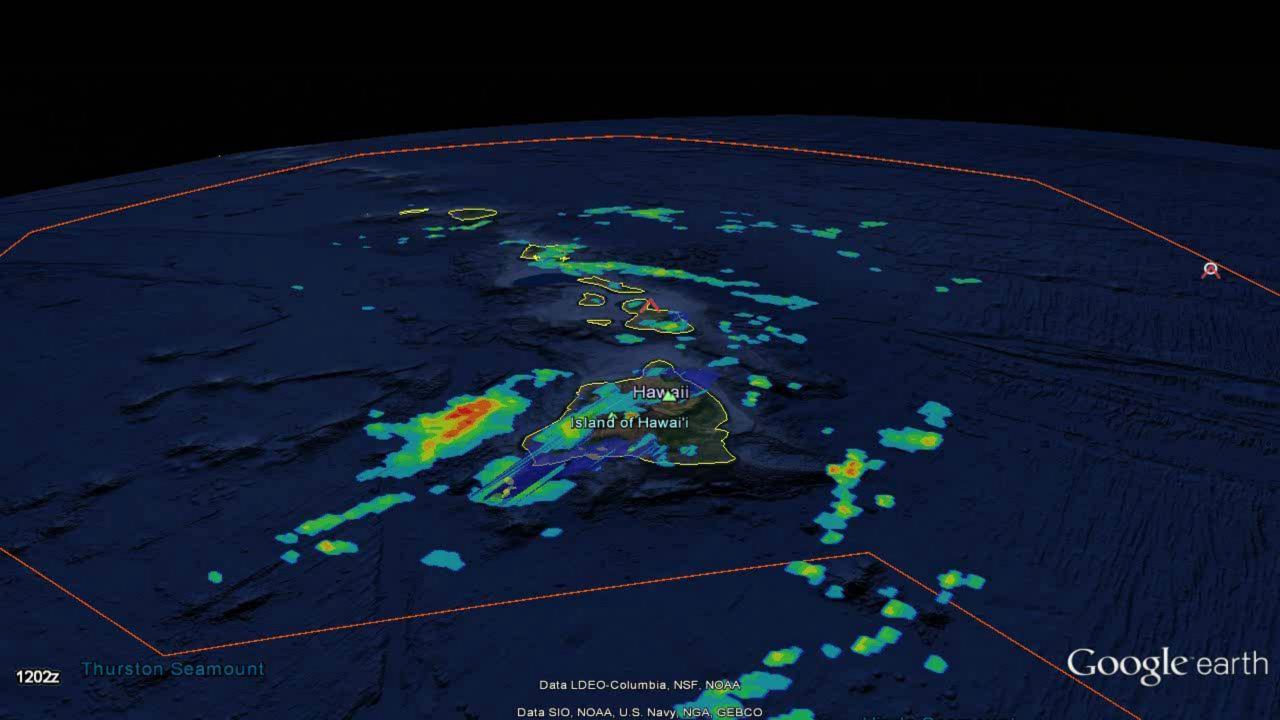


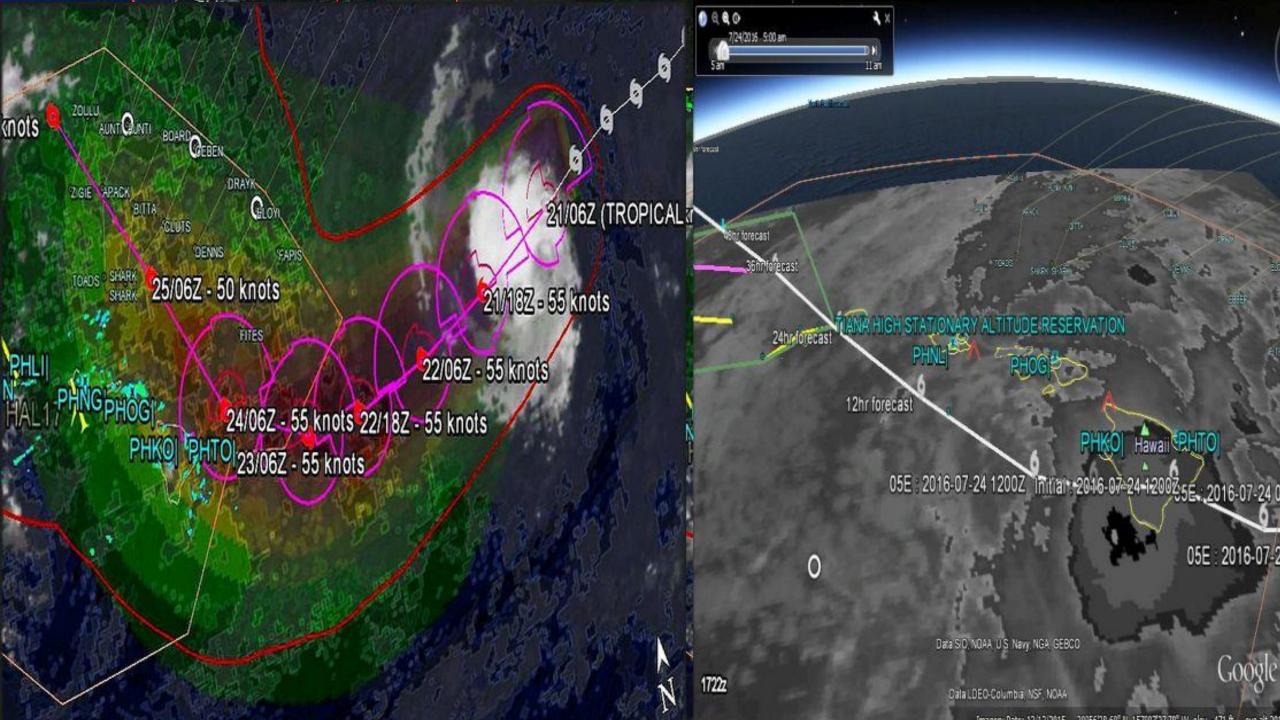
# ENROUTE







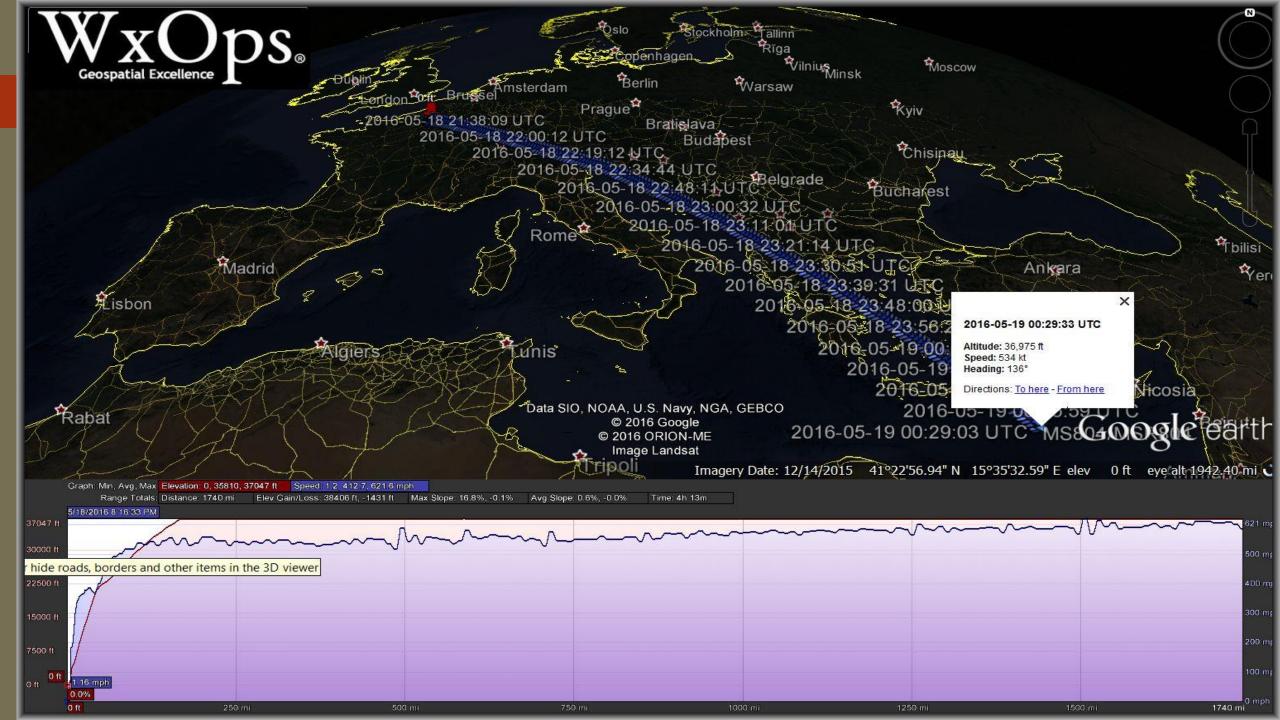


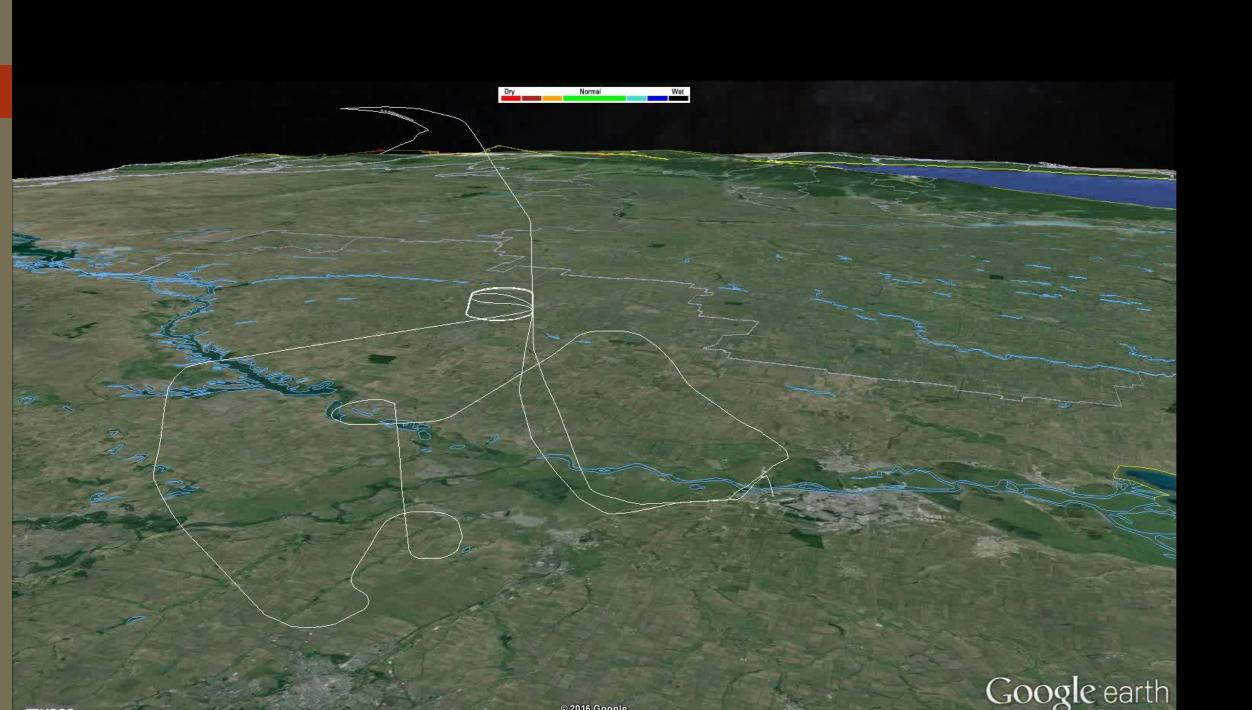


## Post Flight and FORENSICS



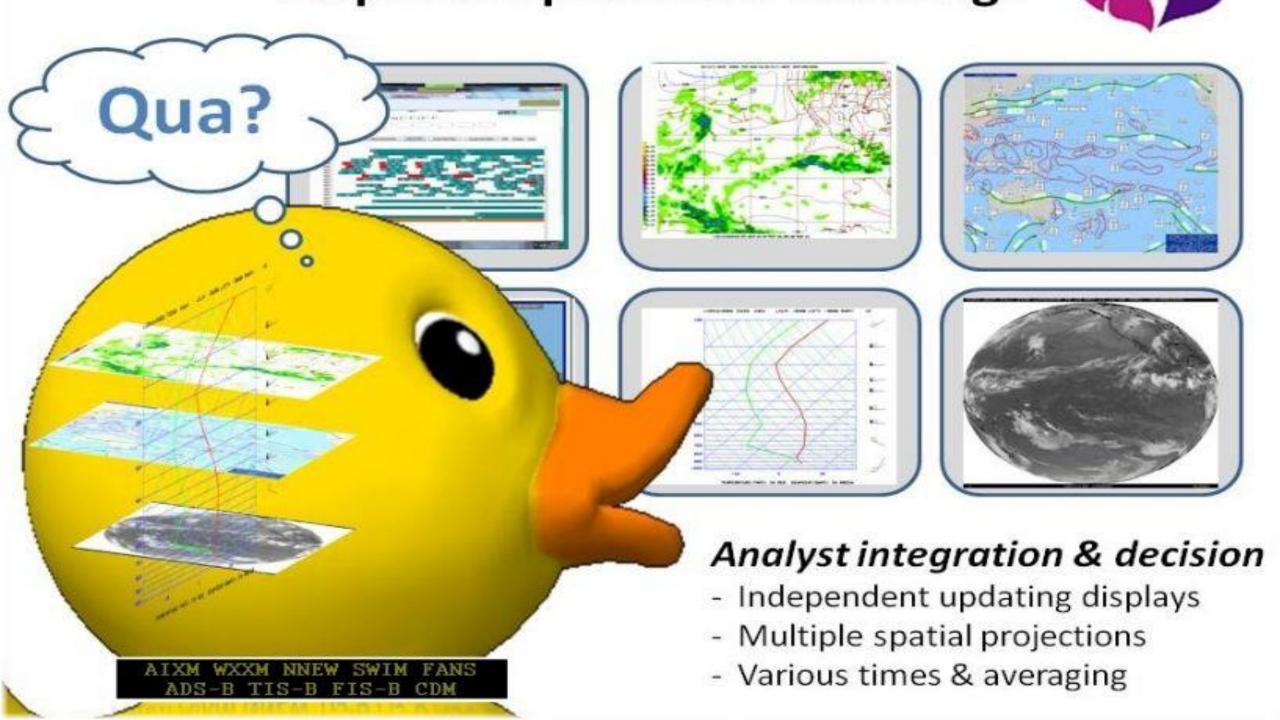


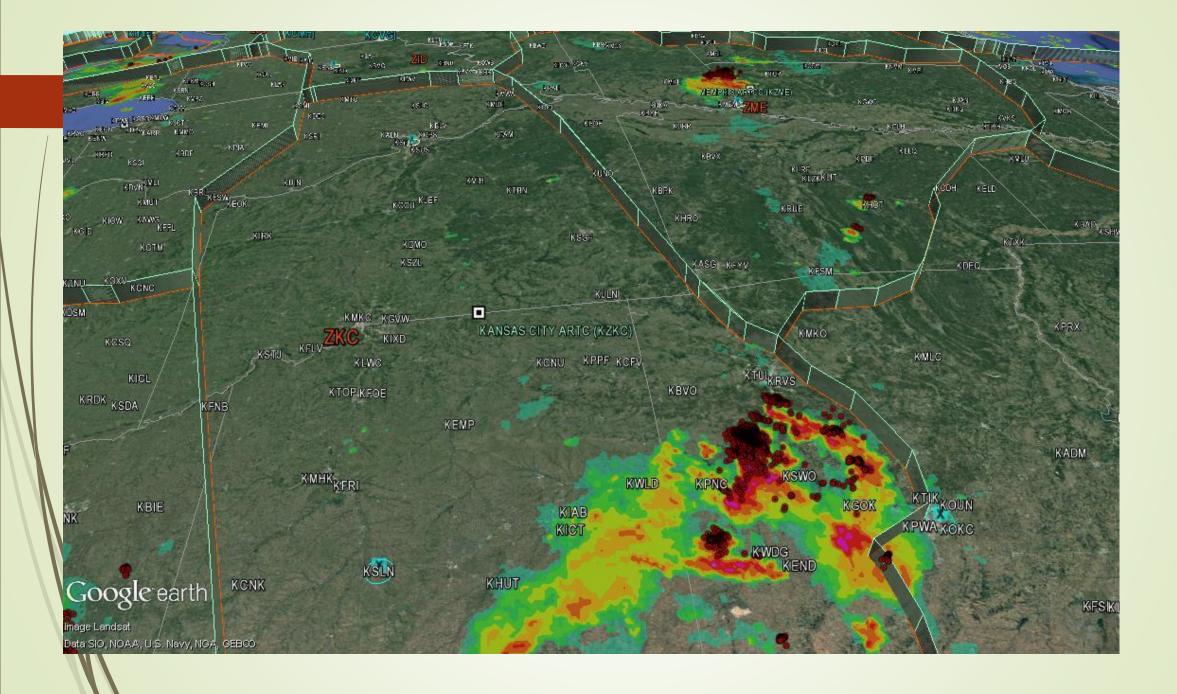


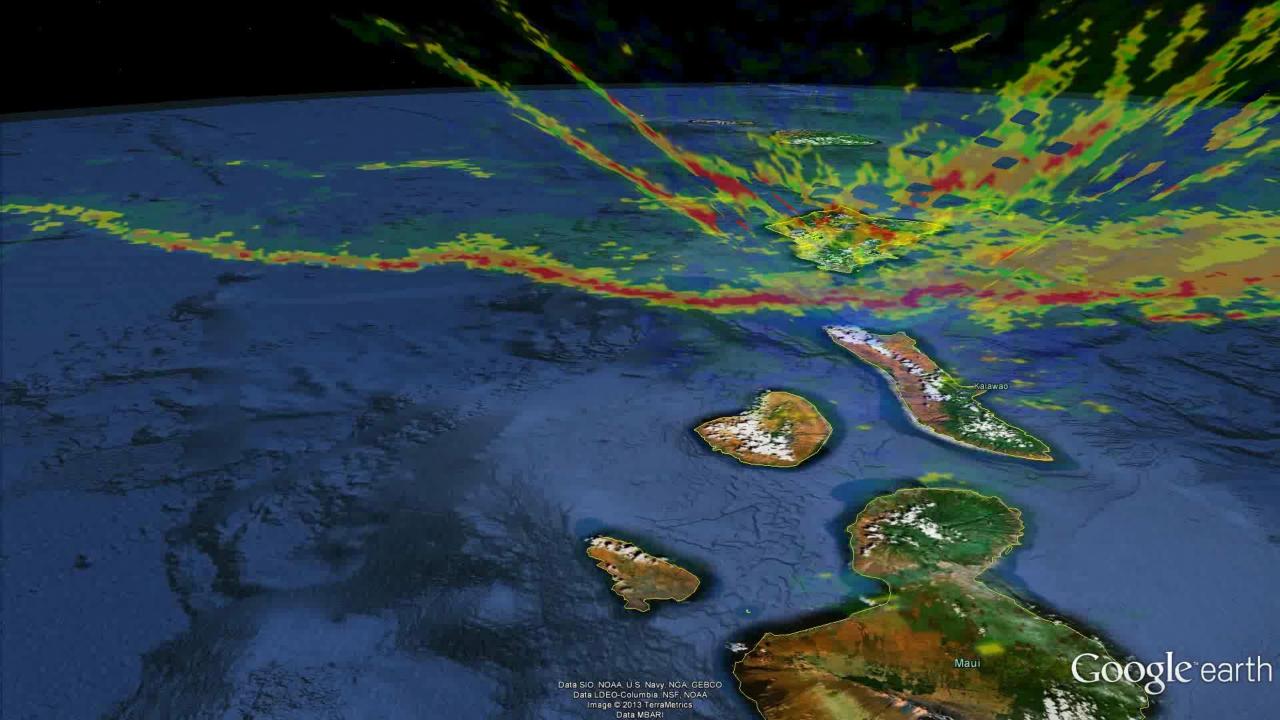


#### HUMAN FACTORS, TASK SATURATION AND THE GEOSPATIAL

- Use of 4D geospatial displays and exchange of big data has its advantages and challenges.
- What are the challenges?
- What are the advantages?
- Any examples?







# TURBULENCE packs a mean punch

Turbulence is more than a nuisance it's an invisible threat pilots must be prepared to address every time they fly.

It threatens passenger safety, pilot control, even damages the airplane; not to mention it wreaks havoc on schedules and flight plans. In fact, each year turbulence costs the aviation industry:



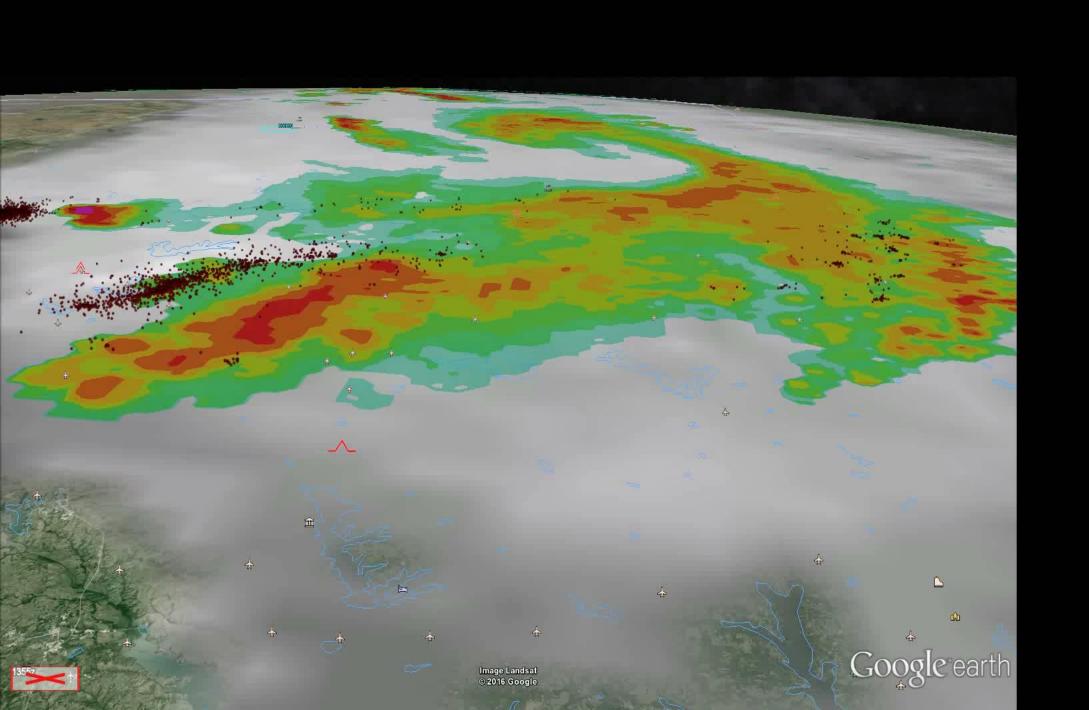
\$5 million in maintenance

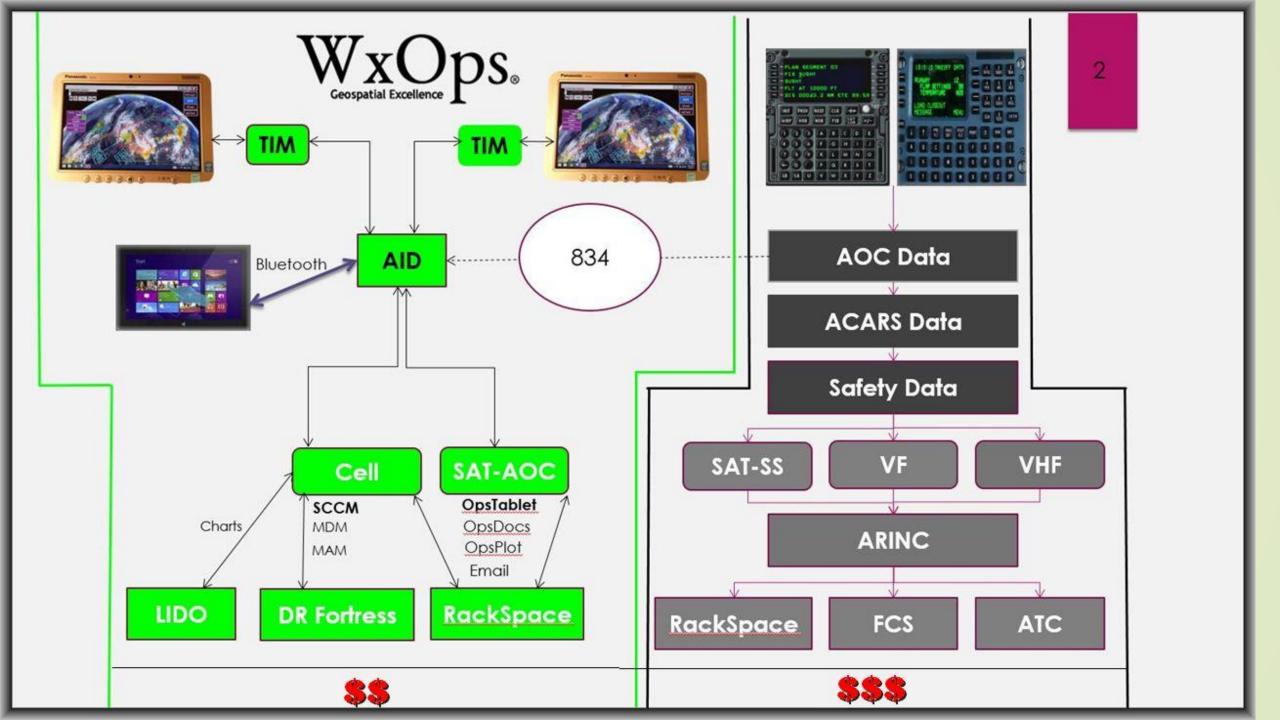


\$35 million in passenger and crew injuries



\$1.36 billion in operational costs due to flight planning time, delays and re-routing





### It's about the data!



What data? When and how will we use it?

How big do we expect the data streams? (Either rate or volume)?

What parts of the business do you think needs 'more data' that we don't already have?

### It's about the business case!



Q: What number of aircraft is required to make a business case that will provide a reasonable return on investment?

A: (1) The more aircraft the more the ROI.



## It cuts both all kind of ways:

The government, the provider and the airline needs to have both a solid data integration plan and a sustainable business case.