

WHY WEATHER

- #1 Pilot Killer
- Least training – highest impact
- We fly “weather susceptible” aircraft
- Tools are quickly changing and improving
- You should no longer be surprised by what you see through the windscreen

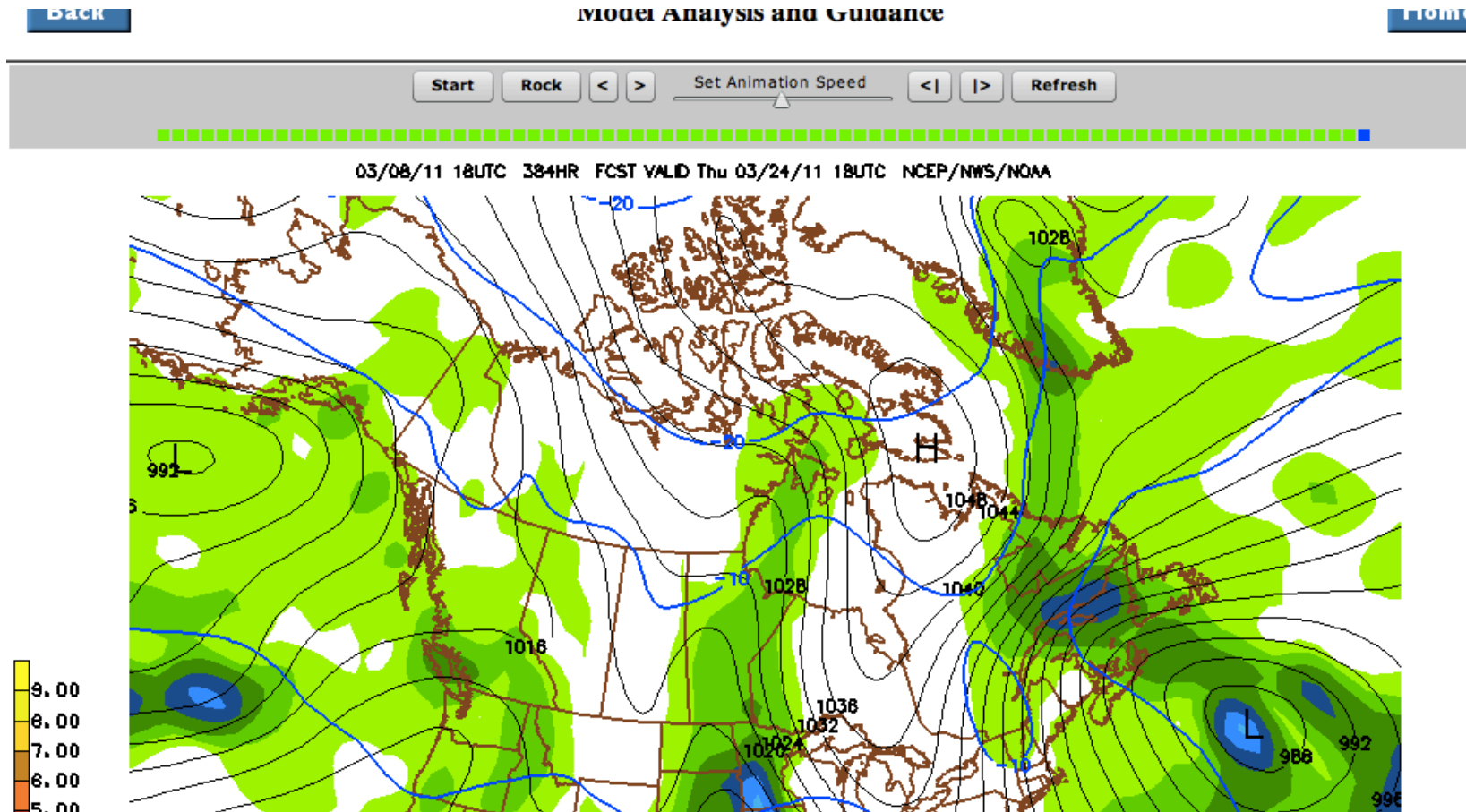
Agenda

- NCEP Models
- Global Forecast System - primary
- Short Range Wx tools – HRRR & LAMP
- Q & A

GFS Upgrade

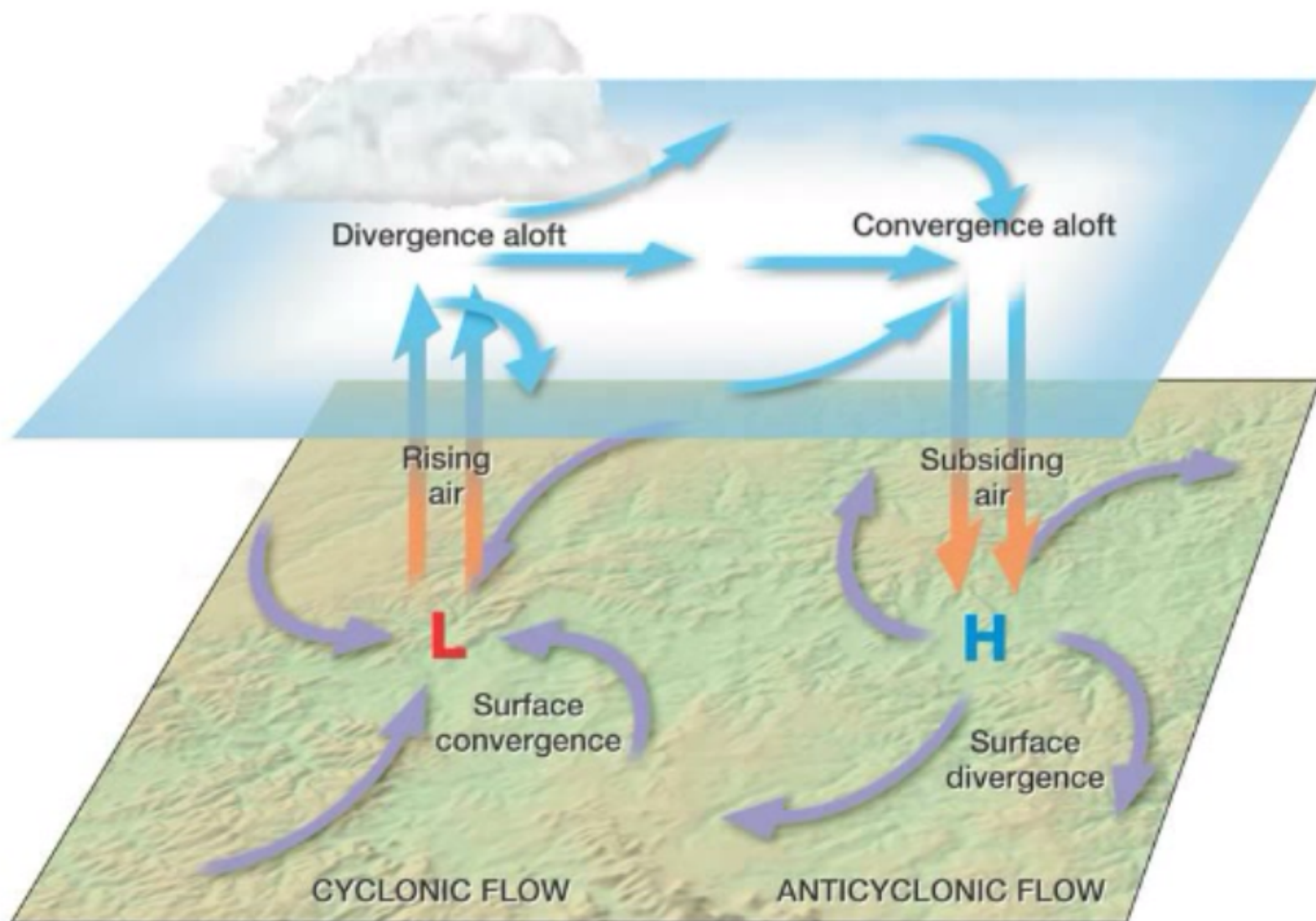
- 8 Day to 10 day 3 hour fcast cycle
- Higher resolution
 - from 27km to 13km for first 10 days
 - 55km to 33km for day 11 thru 16
- Improvements to algorithms and sampling
- Higher computing power (2.5 petaflops)
- New products – Hi-Res Rapid Refresh

GFS – Global Forecast System





High and Low Pressure Systems





12 hours before incoming LOW

Incoming Low Pressure System



10am



6pm
(light rain 2 hours later)

A Serious LOW



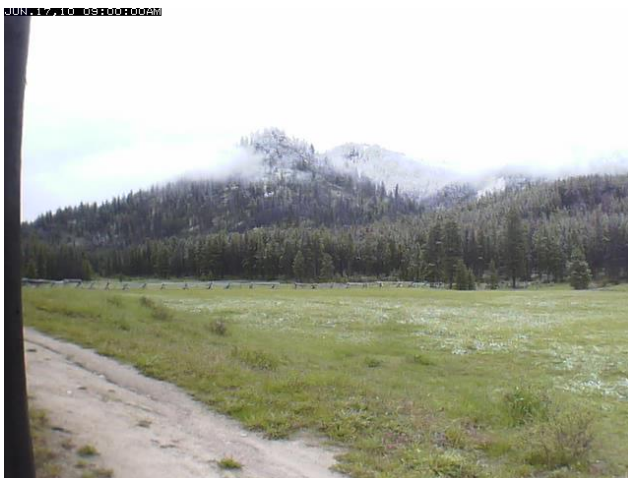


Debris Day

Valley vs Mountain Debris Day



http://www.cityofboise.org/Departments/Public_Works/Services/AirQuality/page10796.aspx



<http://www.flyingresorttranches.com/>



<http://www.idahohotspots.com/infocenter/webcams.htm>



<http://www.pilotcams.org/northwest-us-webcams/48-smiley-creek-id-u87>

Flight Levels and Pressure

- 1000mb = surface
- 850mb = 5000 ft msl
- 700mb = 10k ft msl
- 500mb = 18k ft msl

When temp and dewpoint meet...



Fog and low clouds are worse in canyons with trees – due to high RH

Don't forget to check Flight Service

- You want a record that you checked the wx, in case of a problem later...

Want to Learn More...

AVWX
WORKSHOPS

Your Best Online Source for
Aviation Weather & Education

Join Now! ▶

Login Here ▼

Member Benefits

Live Workshops

**Online Library of
Workshops**

**One-on-One
Weather Training**

Wx Brief

Testimonials

Join Now!

Contact Us

Member Benefits

Choose from 2 membership types:

Wx Brief Membership provides access to the **Internet Wx Brief Roadmap**, a comprehensive suite of high resolution weather guidance designed to increase your situational awareness with respect to the weather better than any other preflight weather planning tool available.

Wx Brief
\$79/yr
Join Now!

Elite Membership encapsulates all of the benefits of a **Wx Brief member**, plus provides unlimited and seamless access to a growing library of bite-sized aviation weather training workshops that can be viewed online from your PC, Mac or other portable devices such as an iPad and iPhone. As a bonus, Elite members receive a **20 percent discount** on the purchase of any premium workshop, one-on-one online training, or tuition to attend a live workshop.

Elite
\$119/yr
Join Now!

Take a short tour of AvWxWorkshops.com

Become a member now ▶

www.avwxworkshops.com