

Group 1: *Avalanche* Exercise

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What observation/avalanche data required by NOAA?

Existing sources?

Colorado Avalanche Information Center

<http://avalanche.state.co.us/>

NORHSC

<http://www.nohrsc.noaa.gov/nsa/>

Avalanche predictor required from GEFS reforecasts?

Is 5-member ensemble reforecast every 5th day for past 20 years OK?

Is there a good reason for configuration to be changed?

Every day for past 20 years robust and would be leveraged for many other applications besides this.

Saving data and making available to partners

Conveniently available for partners?

netCDF? NOMADS? IDP?

Too many locations and formats of data and NWP.

Cloud?

Post-processing methodologies attempted?

Why?

Invited short conference where avalanche experts discuss problem post-processing scientists to help determine path forward.

Solicit private sector, academia, and NOAA partners for methods?

What provides reference that your method is an improvement?

There are already area forecasts for avalanches but since this will be gridded it will be a qualitative comparison between value and skill

How will NOAA work with private/academic partners?

Role clarity? Roles and responsibilities?

Little discussion in this area...

How to evaluate avalanche forecast products?

The WPC WWE (Winter Weather Experiment) or HMT (Hydrometeorological Testbed) should bring in avalanche forecast experts from Colorado to evaluate the technique versus their current forecast techniques.

Durable infrastructure for future improvements?

Ideally this infrastructure can be leveraged for other post-processing applications

Little discussion in this area, other than having daily reforecasts for 20 years will be a rich dataset that will be used across the post-processing arena.