

***Inter-Mountain Aviation  
Weather Workshop***

***Soaring (Glider) Support***

***Dan Gudgel & Walt Rogers***

***Saturday, May 30, 2020***

# *Personal Background*

*(Dan Gudgel; Gudgel Aviation)*

- Aviation/Agriculture
- NWS
  - OM / Aviation Services HQ
  - “Start-up” Warning Coordination Meteorologist
  - “Specialty Programs” Service
- Aviation Support
  - Incl., Remote Events Support
- Consulting Meteorologist



# ***Aviation Weather Support***

- Standard Aviation Weather Brief (Historic)
  - Emphasis Cross-Country Flight Safety
    - ... Pilot Background Info (Request)
      - Adverse Weather
      - Synoptic Situation
      - Current Weather
      - Enroute Weather; incl. Adverse Wx (redundant)
      - Destination Weather
      - Winds Aloft
    - ... NOTAMs, incl. Airspace Restrictions (FAA)
- Aviation Subset / Aircraft Category: ***Soaring***
  - WFO Area Service Need?
  - Contests (Transitory?)
- Familiarity and Knowledge of Aviation Operations

# ***Basic Soaring Pilot Weather Needs***

- Soaring Flight Likelihood
- Four (4) Lift Types
  - Ridge
  - Thermal
  - Mountain Wave
  - Convergence

Personal Observation:

***Inter-Mountain Region Superior in Lift Diversity***

# ***Contest Support***

- Meteorological Parameters Needed (*Thermal Lift*)
  - Sky Conditions
  - Initiation Time (subsequent height & strength evolution)
  - Max Altitude, Strength, and Time-of-Day
  - Last Useful Lift (for Task Planning)
- Launch Time Conditions
- Wind Aloft
- Communication for Decision-Making
  - Threats
  - Probabilities
  - Forecast Confidence
- Recovery Conditions

# ***Additional Support***

1. Decision-Support for Competition Director (CD)  
CD sets Tasks; Resource for CD in Decision-making  
*[Data Collection, Wx Analysis, Contest Forecast, CD Brief  
... All Done with “Time Deadline”]*
2. Subsequently: Contest Pilot Briefing
3. Airfield Weather Watch
4. Task Area Weather Watch
  - Including concerns for Ground Crew / Retrieves
5. Outlook
  - Overall Contest Day utilization / CD Planning Strategy

# ***Applied Meteorology***

- Meso-Scale Meteorology;  
but...aware of synoptic-scale disruptive processes
- Familiarity with Area “Lift” Mechanisms
  - Convergence Line Development and Tendencies
  - Convection Impacts
- Interpretive for ‘Educated Customer’ Decisions
  - Meteorologist local expertise relating to needs

# *Questions and Contact Info*



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# ***Walt Rogers***

Tools and Resources Utilized...