



# Aviation Weather Training in NOAA/NWS

Friends and Partners of Aviation  
Weather

August 8, 2012

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# History

- Training is cornerstone for improvements in our products and services
- Aviation is proactive in providing training
  - We work closely with COMET on course development
  - Distance Learning Aviation Course
    - Designed to improve TAFs
      - DLAC 1: Forecasting Fog/Low Stratus for Aviation Operations
      - DLAC 2: Producing Customer-Focused TAFs
- Past training focused on improving scientific knowledge, we're now looking at improving our communication of the information





# New Topics

- New topics in training result in more prepared workforce
- Working to fill training void on topics which are rare but could significantly impact aviation
  - Volcanic Ash: Impacts to Aviation, Climate, Maritime Operations, and Society
  - Space Weather Impact on Aviation
- Focusing on continuous education of the workforce
  - Updating the Weather Impacts to the National Airspace System training





# External Drivers

- ICAO
  - Requires Meteorological Authorities and Providers to have a Quality Management System in place
  - Forecaster competency is a part of this
- WMO
  - Aeronautical Forecaster Competency defined by WMO
    - Requires Met Providers to confirm forecasters are competent to provide aviation forecasts
    - WMO Commission on Aeronautical Meteorology's Expert Team on Education and Training developed a list of competencies
      - Analyze and monitor continuously the weather situation
      - Forecast aeronautical meteorological phenomena and parameters
      - Warn of hazardous phenomena
      - Insure the quality of meteorological Information and Services
      - Communicate meteorological information to internal and external users





# Professional Development Series (PDS)

- Team of WFO and CWSU meteorologists building PDS
- PDS summarizes all knowledge, skill and abilities to perform successfully as an NWS aviation forecaster
- PDS will drive training development for aviation forecasters
- Five Professional Competency Units (PCUs) comprise the Aviation PDS
  - PCU 1: Coordination and Communicate with Aviation System Operational Partners
  - PCU 2: Continuously Assess and Forecast the Aviation Weather Environment
  - PCU 3: Produce Aviation Weather Information and Services
  - PCU 4: Perform Outreach to Aviation Community
  - PCU 5: Ensure the Quality and Value of Aviation Meteorological Information and Services
- Aviation PDS has strong linkage to WMO Aeronautical Forecaster Competencies





# NWS Support to FAA

- CWSU/ATC Training Library
  - Former team member at NWS Office at the FAA Academy is providing training materials for the CWSUs
    - Contents are brief and can be adjusted to accommodate local weather
    - Provided to all CWSUs to be used to provide training at their local facilities
      - We strongly encourage our CWSUs to work with their ARTCC training to be engaged in weather training
      - It's a part of our Site Review Checklist
    - Topics include
      - Hazardous Weather – Winter
      - Hazardous Weather – Summer
    - Future Releases
      - Fundamentals of Weather
      - METAR/SPECI and PIREPs
      - Aviation Weather Forecasts and Advisories
      - WSR-88D Weather RADAR
      - Weather Satellite
- Other topics can be included when requested





# NWS Support to FAA

- FAA Academy
  - NWS provides 2 meteorologists at the FAA Academy
  - Update curriculum
    - Flight Service for Alaska
    - En Route and Tower
  - Classroom training when requested





Thank you

