Weathering the Challenges Of Unmanned Flight



Ryan Henderson 30 April 2018



Your Equipment Should Be:

- Adequate for the environment
- Protective
- Able to monitor real-time conditions
- Mobile





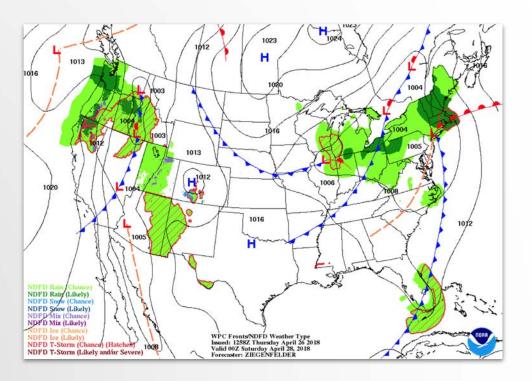
Know The Limits of Your System and You





Weather Planning

- Long-range forecast
- Averages
- Short-range forecast





Deployment Day

- Location-based weather
- Terrain-based weather





In Flight

- Tap into local weather data if available
- Use visual references (clouds, winds, temperatures)
- Monitor pressure changes





More on Moisture

- Rain clouds
- Effects of humidity on signal
- Effects on equipment





A Word About Wind

- Aircraft limitations
- Sensor limitations
- Ground equipment
- Winds aloft
- Long-range/BVLOS considerations





A Word About Temperature

Cold weather considerations

Warm weather considerations



Post-Operation

- After-action review
- Equipment maintenance
- Equipment preparation





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