

ERH-MSD AVN Wiki...

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What is it and why...

■ Wiki: ER-AVN

- Provides ability to share information
 - Great ideas can be noted and shared...
- AVN page will serve as a clearinghouse
 - Format provides resources to each WFO and those conducting service backup
 - Runway charts, approach diagrams, etc... example from WFO-CTP

So where do we start...

- ERH now maintains ER-Wiki server

https://collaborate.werh.noaa.gov/wiki/index.php/Main_Page

prompted for username/password

email username/password (minus @noaa.gov)

The look...



WIKI

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Main Page

Welcome to the ERH Wiki

***** Guidelines about When, Why and How to Use This Wiki *****

ERH Program Areas [edit]

| | |
|--|--|
| Director's Office (Wiki) | Director's Office (Intranet) |
| Meteorological Services - MSD (Wiki) | Meteorological Services - MSD (Intranet) |
| Hydrological Services - HSD (Wiki) | Hydrological Services - HSD (Intranet) |
| Scientific Services - SSD (Wiki) | Scientific Services - SSD (Intranet) |
| Systems Operations - SOD (Wiki) | Systems Operations - SOD (Intranet) |
| Administrative Management - ADM (Wiki) | Administrative Management - AMD (Intranet) |
| Equal Employment Opportunities (Wiki) | Equal Employment Opportunities (Intranet) |
| Climate Services (Wiki) | Climate Services (Intranet) |

Additional Information [edit]

| | |
|-------------------------------------|---|
| Action Items / Due Dates | ERH Projects (Trac) |
| ERH Roster | Guidelines for Basic Wiki Usage |
| MediaWiki Installs at Local Offices | Tips and Tricks (Subversion, Trac, MediaWiki, etc.) |

Important Notes [Edit]

- **SevereClear** information posted.
- ER AWIPS Conf Call 1/28/2009 10 AM.
- ER ITO Conf Call February 2009 2 PM.
- December ITO Conf Call minutes posted
- Guidelines for Basic Wiki Usage Available.
- ERH Projects (Trac)

ER Offices

ERH:

Internet

Intranet

ER WFOs

Albany, NY (ALY):

Internet

Intranet

Binghamton, NY (BGM):

Internet

Intranet

Blacksburg, VA (RNK):

Internet

Intranet

Boston, MA (BOX):

Internet

Intranet

Buffalo, NY (BUF):

Internet

Intranet

Burlington, VT (BTV):

Internet

Intranet

Caribou, ME (CAR):

Internet

Intranet

Charleston, SC (CHS):

Internet

Intranet

Charleston, WV (RLX):

Internet

Intranet

Cleveland, OH (CLE):

Internet

Intranet

ERH-MSD Main Page...

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MSDMain

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[Meteorological Services Division](#)

[MISSION](#)

MSD provides leadership in Eastern Region for a wide variety of operational activities in support of the NWS mission. The Division leverages resources, develops, implements, and improves services, exchanges hydro-meteorological information, and serves as a liaison between NWS offices, customers, and partners.



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Upload file

Use the form below to upload files. To view or search previously uploaded files go to the [list of uploaded files](#), (re)uploads are also logged in the [upload log](#), deletions

To include a file in a page, use a link in one of the following forms:

- **[[Image:File.jpg]]** to use the full version of the file
- **[[Image:File.png|200px|thumb|left|alt text]]** to use a 200 pixel wide rendition in a box in the left margin with 'alt text' as description
- **[[Media:File.ogg]]** for directly linking to the file without displaying the file

Upload file

Source filename:

Maximum file size: 2 MB

Permitted file types: png, gif, jpg, jpeg, pdf, ppt, xls, doc.

Destination filename:

Summary:

Select categories:

AWIPS
ArcView
Climate
ER_Info
Forecasting_Tips
GFE
GIS
HowTo
License_templates
RFC_Info

Shift-mouse to select multiple contiguous entries, Ctrl-mouse to select non-contiguous entries.

Watch this page Ignore any warnings

ERH-Aviation page...



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ERH-Aviation

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- 8 Aviation Conferences/Workshop Schedules
- 9 NOTAM Procedures

ERH Aviation Page

- This page serves as a clearinghouse for ER AVN Focal Points (AFP) and a location for ERH RAM to archive notes
- AFP's will be able to upload information specific about their TAF sites
- This page will provide resources for WFOs conducting service backup

ER AVN Notes

■ April 14th 2009

- MDL is looking for volunteers to work on an AvnFPS project, please let me know if you would like to volunteer by 30 April.
- Back in AWIPS release OBB.3 MDL introduced a new form of guidance TAF in TAF Editor of AvnFPS. The application now generates "TAFs Updated with Guidance" (TUG). The forecaster selects the recipe tab labeled "TAF/LAMP." MDL thinks the underlying algorithms are pretty clever, and it's time we gathered some real world feedback from forecasters.
- MDL does know that some folks are "pushing the TAF/LAMP button" out there. They had a run on Trouble Tickets when this feature broke some time ago.
- The AvnFPS Users' Guide contains the following about the TAF/LAMP tab: "Displays the official TAF updated with LAMP guidance. Since this is a synthesis of LAMP guidance and the Official TAF, it's not meaningful to have a 'table' format, just 'short' and 'long' TAF formats are available. More information on the combining technique can be found in the TUG, M.G., et. al., 2008."
- Below are two screen captures that show the TUG algorithms at work. On the left is a draft TAF generated from LAMP alone. On the right is a draft TAF that uses LAMP guidance and the official TAF. Note that the TUG has a much smoother transition in the weather between 1800 and 0300 UTC. Note also that the TUG eliminates the 1-h "bounce" in cloud cover between 1900 UTC.

Collaborative Tools...

[Aviation Collaborative Pages](#)

[\[edit\]](#)

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|
| AVN-ALY | AVN-BGM | AVN-RNK | AVN-BOX | AVN-BUF | AVN-BTV | AVN-CAR | AVN-CHS |
| AVN-RLX | AVN-CLE | AVN-CAE | AVN-GSP | AVN-MHX | AVN-OKX | AVN-PHI | AVN-PBZ |
| AVN-GYX | AVN-RAH | AVN-CTP | AVN-LWX | AVN-AKQ | AVN-ILM | AVN-ILN | |

AVN-CTP...

Practically Perfect TAFs

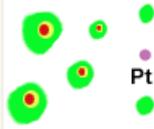
Non-Convective

1. Write to the flight categories first; establish trends
2. Add specific ceiling and visibility details for first 6 hours only (the critical TAF period)
3. Limit the use of TEMPO groups to the first 9 hours (if possible 6 hours) and avoid the use of PROB groups
4. Review the consistency and make sure you have addressed the expected flight category changes

Convective

1. Write to thunderstorms first; establish trends
2. Add convective details to the first 6 to 8 hours only (the critical TAF period)
3. Limit TEMPO groups to the first 6 to 8 hours and use PROB sparingly
4. Review for consistency and make sure you have addressed expected convective changes

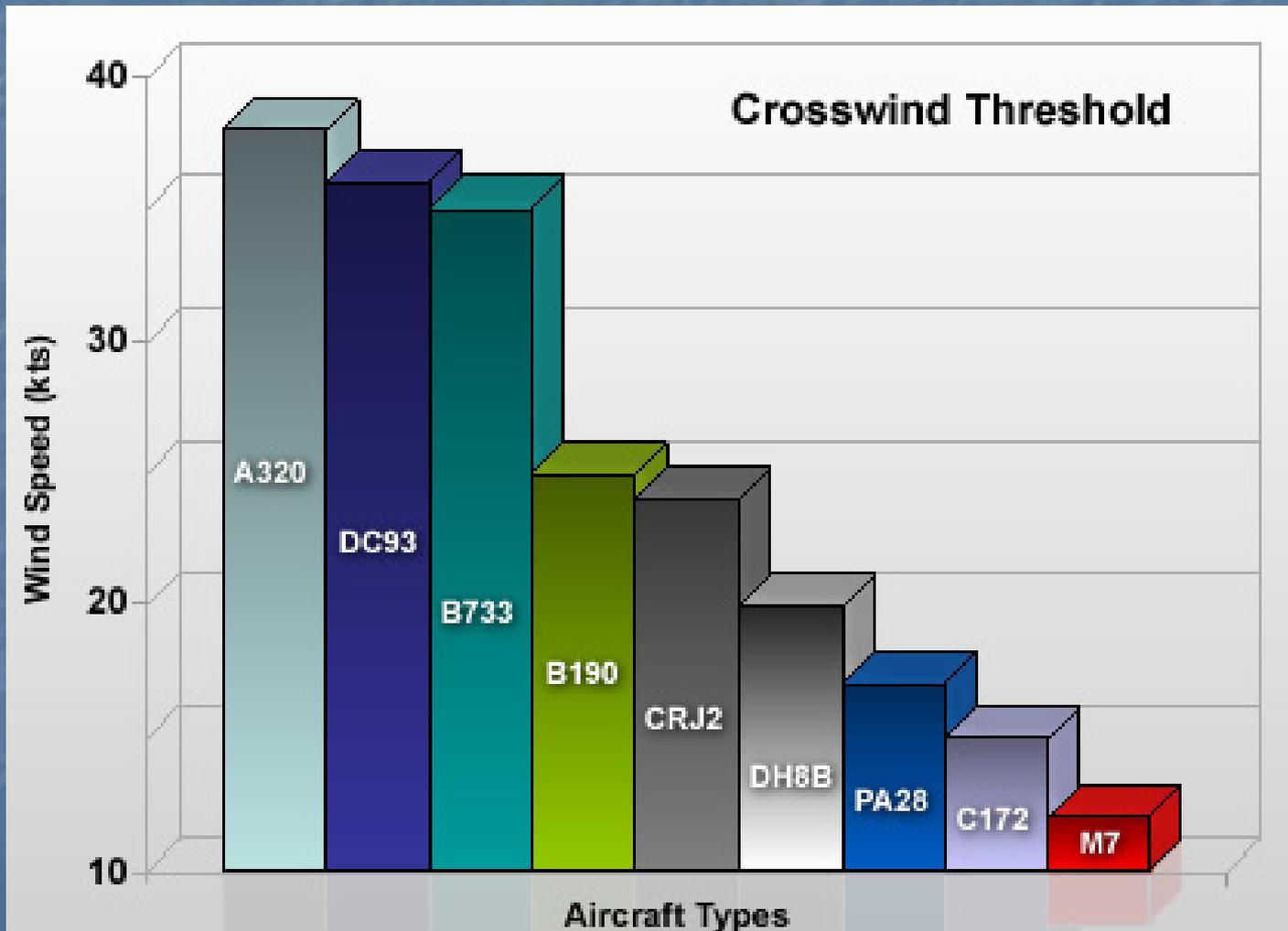
How to Forecast for a Point

| | Impact to Point | > 6 Hours Out | 3 – 6 Hours Out | 1 – 3 Hours Out |
|--|---|---|--|--|
| MCS  | Period of thunderstorms and rain possibly with strong winds or hail | Lower confidence: CB or just mention in AFD Higher confidence: TEMPO | Lower confidence: CB/VCTS Higher confidence: Prevailing group or TEMPO | Lower confidence: VCTS or TEMPO Higher confidence: Prevailing group (update as necessary) |
| Air Mass  | Brief thunderstorm with rain, gusty winds, or small hail | CB or just mention in AFD | Lower confidence: CB Higher confidence: VCTS or TEMPO | Lower confidence: CB/VCTS Higher confidence: TEMPO (update as necessary) |
| Supercell  | Short period of thunderstorm with heavy rain, winds ≥ 50 kt, or large hail | Lower confidence: CB or just mention in AFD Higher confidence: CB and mention in AFD | Lower confidence: CB/VCTS Higher confidence: VCTS or TEMPO and mention in AFD | Lower confidence: CB/VCTS Higher confidence: TEMPO or prevailing (update as necessary) |
| Microburst  | Relatively rare but intense burst of strong winds, with or without rain, hail, or thunder | CB or just mention in AFD | CB/VCTS and mention in AFD | Lower confidence: CB/VCTS Higher confidence: TEMPO for short period of time (update as necessary) |

Users Decision Tree

| Users' Decisions | | | |
|---|--|--|---|
| TAF User Group | Decision Focus | TAF-related Decision Points | Decision Window |
| Air Traffic Control: • ARTCC • TRACON/ATCT • Airport Operations | Strategic and tactical decisions for en-route traffic | <ul style="list-style-type: none"> • Time-of-day • Traffic "pushes" • AAR (Airport Acceptance Rate) • Jet routes • Route intersections • Sector Volume • Arrival Gates | 1 to 6 hours |
| | Tactical decisions regarding aerodrome and airport traffic control | <ul style="list-style-type: none"> • Time-of-day • Traffic "pushes" • Runway instrumentation • Runway configuration • Runway conditions • Arrival/departure gates • Airport capacity • Landing minimums • Other airport-specific criteria | 1 to 2 hours |
| | Strategic and tactical decisions regarding mitigation of surface hazards to traffic | <ul style="list-style-type: none"> • Snowfall/ice accumulation • Concrete surface temperature • Glazing/Frosting conditions • Rainfall intensity | 1 to 24 hours |
| General Aviation | Flight planning, route-of-travel, destination and alternates, VFR versus IFR, and go/no-go decisions | <ul style="list-style-type: none"> • IFR ceiling & visibility • Thunderstorms • Head, tail, and crosswinds • Low-Level Wind Shear | 1 to 3 hours |
| Flight Service | Assisting pilots in making both short- and long-term decisions | <ul style="list-style-type: none"> • Type of aircraft • VFR or IFR flight • Time of departure (+/- hour) • Point of departure • Estimated flight time • Destination (+/- 1 hour) • Route-of-flight | 1 to 3 hours (flight planning) 1 to 3 days (outlook) |
| NWS | Forecast coordination and collaboration | <ul style="list-style-type: none"> • Area and point forecasts • Aviation and public products • Aviation advisory services | 1 to 6 hours |
| Military | Mission planning, forecasts and advisories for all base operations | <ul style="list-style-type: none"> • Military-specific thresholds for destination/alternate • Icing • Turbulence • Severe thunderstorm warnings • Tornado warnings | 1 to 6 hours |
| Commercial | Planning for fuel loading, routes, alternates, and system operations control | <ul style="list-style-type: none"> • Location and time of day • Severe weather* • LIFR/airport-specific criteria • Runway conditions | 2 to 4 hours (8 to 12 hours for international flights) |

Crosswind Threshold



Standardized Template (draft)...

CTP Airfields

| CTP TAF Sites | Runway Charts/Airfield Diagrams | Aerial Photos | Economic Impact (EI) | Site Specific TAF Amendment Criteria (SSTAC) |
|---------------|------------------------------------|---------------|----------------------|--|
| A00 | Altoona PA | A00 | EI-A00 | SSTAC-A00 |
| BFD | Bradford PA | BFD | EI-BFD | SSTAC-BFD |
| JST | Johnstown PA | JST | EI-JST | SSTAC-JST |
| MDT | Harrisburg (Middletown) PA | MDT | EI-MDT | SSTAC-MDT |
| UNV | State College (University Park) PA | UNV | EI-UNV | SSTAC-UNV |
| IPT | Williamsport PA | IPT | EI-IPT | SSTAC-IPT |

| CTP Non-TAF Sites | Runway Charts/Airfield Diagrams | Aerial Photos | Economic Impact (EI) | Site Specific TAF Amendment Criteria |
|-------------------|---------------------------------|---------------|----------------------|--------------------------------------|
| CXY | Capital City Airport PA | CXY | EI-CXY | SSTAC-CXY |
| LNS | Lancaster PA | LNS | EI-LNS | SSTAC-LNS |
| THV | York PA | THV | EI-THV | SSTAC-THV |

| PA Airfields |
|--------------------------------|
| PA Airfield Takeoff Min. |
| PA Airfield Documentation |
| PA Airfield Alternate IFR Mins |

Training...

- No IT background needed
- The ER-AVN Wiki page continues to evolve
 - Page is a living document...
- Standardized nomenclature for AVN items
 - Prevent future issues with overlaps
 - This is common amongst time sensitive documents that can be uploaded

Contact Info...

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