

# Embry-Riddle Weather Information Sheet

Refer to AC 00-45G CHG 1 (Aviation Weather Services)/ Current FAR/AIM for Complete Information

REV 1 03/2011

PRODUCT (TELETYPE CODE)	ISSUANCE TIMES	VALID PERIOD	INFORMATION CONTAINED
<b>OBSERVED WEATHER PRODUCTS</b>			
<ul style="list-style-type: none"> <li>●Aviation Routine Weather Report (METAR)</li> <li>●Aviation Selected Special Weather Report (SPECI)</li> </ul>	<ul style="list-style-type: none"> <li>●Hourly</li> <li>●45 to 55 minutes past the hour</li> </ul>	Current Observed Data	Type of Report, Airport Identifier, Date, Time, Wind, Visibility, Weather, Sky Condition, Temp & Dew Point, Altimeter, Remarks
Pilot Reports (PIREP)	As reported	Current Observed Data	<ul style="list-style-type: none"> <li>●2 types: <b>Routine (UA)</b> and <b>Urgent (UUA)</b>.</li> <li>●Reports: Location, Time, Altitude, Type of Aircraft, Clouds, Flight Visibility, Observed Wx, Temperature, Turbulence, Icing, Remarks</li> </ul>
Surface Analysis Chart	<ul style="list-style-type: none"> <li>●Beginning at 00 Zulu daily.</li> <li>●Every 3 hours there after (00z, 03z, 06z, 09z, 12z, 15z, 18z, 21z)</li> </ul>	Current Observed Data	<ul style="list-style-type: none"> <li>●<b>Overall Chart:</b> Pressure Systems, Fronts, Isobars, Boundaries.</li> <li>●<b>Station Models:</b> Wind, Pressure, Sky Cover, Wx, Temp, Dew Point.</li> </ul>
Weather Depiction Chart	<ul style="list-style-type: none"> <li>●Beginning at 01 Zulu daily.</li> <li>●Every 3 hours there after (01z, 04z, 07z, 10z, 13z, 16z, 19z, 22z)</li> </ul>	Current Observed Data	<ul style="list-style-type: none"> <li>●<b>Overall Chart:</b> Areas of VFR, MVFR, IFR , Fronts, Troughs.</li> <li>●<b>Station Models:</b> Sky Cover, Ceiling, Visibility, Weather</li> </ul>
Radar Summary Chart	Hourly	Current Observed Data	Computer generated mosaic of radar echos showing precipitation type, intensity, coverage, movement, and tops. Outlines tornado and severe thunderstorm watch areas.
Constant Pressure Chart	0000, 1200 Zulu	Current Observed Data	5 pressure levels include: wind/speed, temp, height of level (MSL), temp/dew point spread.
<b>WEATHER FORECASTS</b>			
Terminal Aerodrome Forecast (TAF)	Issued: 00, 06, 12, 18 Zulu	<ul style="list-style-type: none"> <li>●24 hour forecast unless otherwise stated.</li> <li>●30 hour forecasts for select airports.</li> <li>See aviationweather.gov for 30hr TAFs.</li> </ul>	<ul style="list-style-type: none"> <li>●Conditions to occur within 5SM of airport.</li> <li>●Includes: Valid Period, Wind, Visibility, Weather, Ceiling.</li> </ul>
Area Forecast (FA)	Miami Area Forecast Region (Standard Time): 0945, 1845, 0145. *See AC 00-45 for other regions.	<ul style="list-style-type: none"> <li>●18 hour synopsis</li> <li>●12 hour VFR clouds &amp; weather</li> <li>●6 hour outlook following 12hr forecast</li> </ul>	<ul style="list-style-type: none"> <li>●<b>Sections of FA:</b> Communication/Product Header, Precautionary Statement, Synopsis, VFR Clouds &amp; WX and Outlook.</li> <li>●<b>Application:</b> Enroute and airports without TAFs.</li> </ul>
Winds and Temperatures Aloft (FB)	<ul style="list-style-type: none"> <li>●Issued: 02, 08, 14, 20 Zulu</li> </ul>	<ul style="list-style-type: none"> <li>●6 hour, 12 hour, 24 hour forecast periods.</li> <li>*Reference chart for forecast period.</li> </ul>	<ul style="list-style-type: none"> <li>●No winds reported below 1500 AGL</li> <li>●No temp reported below 2500 AGL</li> <li>●Wind direction 51 to 86, wind speed 100kts or greater. Subtract 50 from direction add 100 to speed. Wind speed 99, 200kts or greater. (6045-23 would read as 100°@145kts -23°C)</li> <li>●9900 = winds light and variable &lt;5kts.</li> </ul>

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<b>WEATHER FORECASTS (Continued)</b>			
Low-level Significant Weather Prognostic Chart	Issued: 1720, 2310, 0530, 0935 Zulu	Prog periods begin at the following times for respective issuance time to the left: ●12-Hr Prog: 00, 06, 12, 18 Zulu. ●24-Hr Prog: 12, 18, 00, 06 Zulu	● <b>SIG WX Prog:</b> Areas of VFR, MVFR, IFR, Turb, Icing, Freezing levels. ● <b>Surface Prog:</b> Fronts, Isobars, Pressure Systems, Areas of Precip. ●Extends to 400mb (24,000ft)
Freezing Level Chart	●Initial & 3hr forecasts issued hourly. ●6, 9, 12 hour forecasts issued every 3hrs.	●3, 6, 9, 12 hour forecast periods.	Lowest Altitude Temp=0 degrees Celsius. Information on Temp Inversions.
<b>HAZARDOUS WEATHER PRODUCTS</b>			
AIRMET (WA)	0255, 0855, 1455, 2055 Zulu	6 hours	● <b>Sierra:</b> IFR Cond, Mountain Obscuration ● <b>Tango:</b> Mod Turb, Surface winds 30kts≤, Non Convective LLWS ● <b>Zulu:</b> Mod Icing, Freezing Levels
SIGMET (WS)	As Required	4 hours	●Severe or greater Turb, Clear Air Turb, Severe Icing (all non convective) ●Dust/Sand Storms lowering inflight/ground visibility below 3SM ●Volcanic Ash.
Convective SIGMET (WST)	Hourly +55	2 hours	●Tornados ●Hail 3/4 inch or greater at the surface ●Line of Thunderstorms 60 miles or longer ●Embedded Thunderstorms ●Surface winds 50kts or greater ●Heavy precip affecting 40% or more of 3000sq/miles
Center Weather Advisory (CWA)	As Required	2 hours	Weather warning for conditions meeting or approaching conditions associated with AIRMETs, SIGMETs, or Convective SIGMETs.
Convective Outlook	● <b>Day 1:</b> 06, 13, 1630, 20, 01 Zulu ● <b>Day 2:</b> 07 (Standard Time), 1730 Zulu ● <b>Day 3:</b> 0830 (Standard Time) Zulu	** <b>Issuance Time</b> (Valid Period) Zulu** ● <b>Day 1:</b> <b>06</b> (12-12), <b>13</b> (13-12), <b>1630</b> (1630-12), <b>20</b> (20-12), <b>01</b> (01-12) ● <b>Day 2:</b> <b>07</b> (12-12), <b>1730</b> (12-12) ● <b>Day 3:</b> <b>0830</b> (12-12)	●Narrative and graphical convective outlooks defining the potential for general and severe convective activity. ●Defines severe thunderstorm risk areas as: Slight (SLGT), Moderate (MDT), High (HIGH).
Lifted Index Analysis Chart	0000, 1200 Zulu *Chart discontinued in AC 00-45 (Chart is available through DUAT.)	Current Observed Data	● <b>Lifted Index (LI)</b> - Measure of atmospheric stability. (Positive LI = Stable, Negative LI = Unstable) ● <b>K Index (KI)</b> - Measure of Thunderstorm potential. Higher KI greater potential. KI of 20-40 indicates high potential.