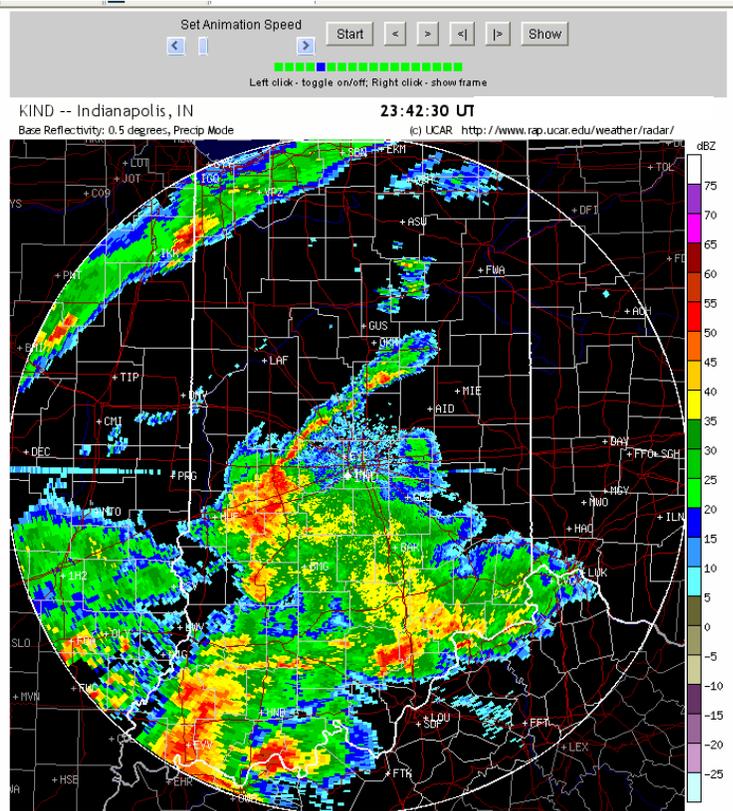
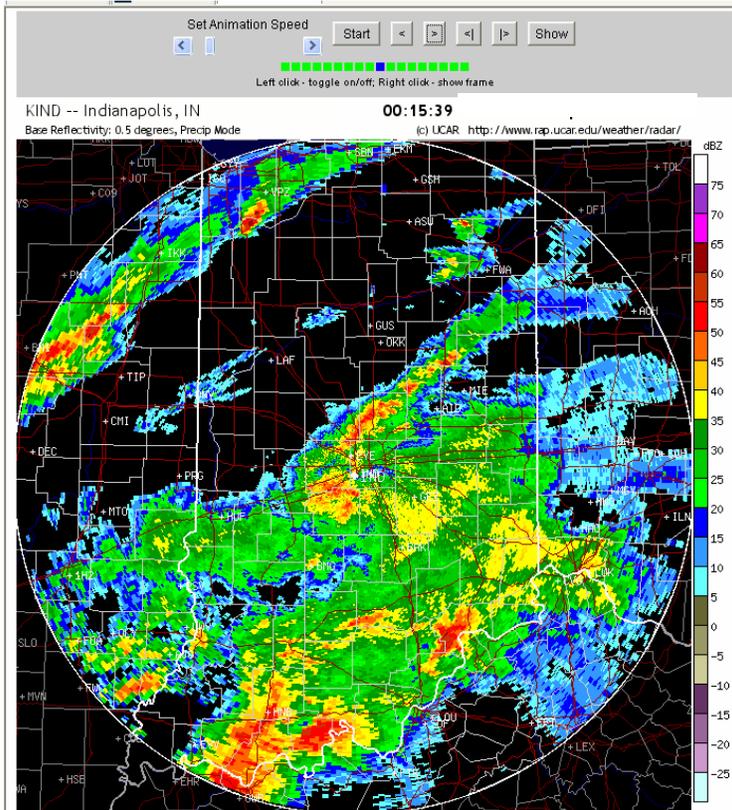


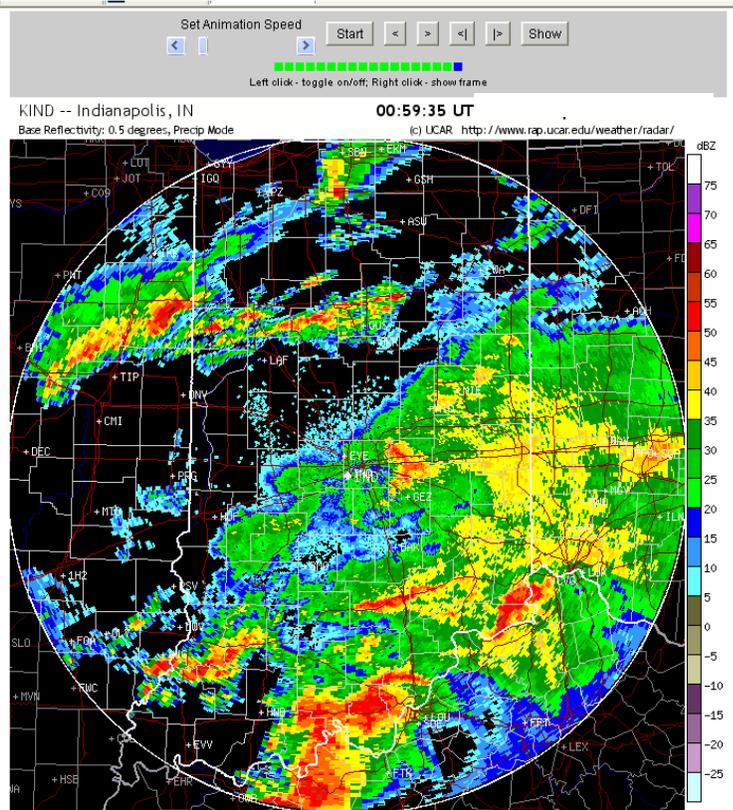
**2308Z** radar image (approx. 15 min prior to TAF issuance)  
 Storm motion is to the north east



**2342Z** – approx. 7 min prior to TAF AMD  
 Storm motion is to the north east



**0015Z** – TSRA over the KIND terminal  
 Storm motion is to the north east



**0059Z** – approx. 8 min prior to TSE in the KIND observation  
 Storm motion is to the north east

## KIND TAF:

```
KIND XX2323Z XX0024 17012KT P6SM VCTS SCT014 OVC040CB
  TEMPO 0002 3SM -SHRA BKN010
  FM0200 17012KT 5SM -SHRA BR OVC012
  TEMPO 0205 1 1/2SM -TSRA BR OVC008CB
  FM0500 18010KT P6SM VCTS OVC012CB
  TEMPO 0508 4SM -SHRA BR
  FM0800 19010KT 4SM BR VCTS BKN012 OVC030CB
  FM1500 21012G22KT P6SM VCTS SCT015 BKN040CB=
```

## TAF AMD

```
KIND XX2349Z XX0024 17012KT 5SM -SHRA SCT014 OVC024
  TEMPO 0002 2SM -TSRA BKN014CB
  FM0200 17012KT 5SM -SHRA BR VCTS OVC012CB
  FM0500 18010KT P6SM VCTS OVC012CB
  TEMPO 0508 4SM -SHRA BR
  FM0800 19010KT 4SM BR VCTS BKN012 OVC030CB
  FM1500 21012G22KT P6SM VCTS SCT015 BKN040CB=
```

KIND METAR observations are attached. In the ob, TSB 2350Z and TSE 0107Z.

Thunderstorms were clearly moving north east toward the KIND terminal. Neither the initial issuance nor the subsequent AMD had thunder in the prevailing group. In this example, the AWIPS "Time of arrival/lead time" tool would have been most helpful in determining correct timing.

A TEMPO group was used, recognizing impending thunderstorm activity. However, as the radar loop showed, these storms showed no signs of dissipating before arriving at the terminal and should have been placed in the prevailing group.

Climatology suggests that thunderstorms at the KIND airport usually last no more than 2 hours. While the TEMPO group timing was limited to 2 hours, a prevailing mention would have been more appropriate.

Air traffic control at KIND can see (on their radar display) the line of thunderstorms approaching the terminal. Giving them as much advanced notice as possible will help them more efficiently divert aircraft while the thunderstorm is ongoing.

According to the TAF Directive, (NWSI 10-813, Appendix C 1.2.9.1) we are no longer limited to timing various weather occurrences in 30 minute increments. Precise timing (as precise as scientifically possible) is encouraged. Specific text from the Directive is as follows:

*"While the use of a four-digit time in whole hours (e.g. 2100Z) is acceptable, if a forecaster can predict changes and/or events with higher resolution, then more precise timing of the change to the minute should be indicated."*

Also, the AAFD was issued 2 hours late.

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AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE INDIANAPOLIS IN
1030 PM EDT XXX XXXXXX 2006
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## .AVIATION...DISCUSSION FOR THE 00Z TAFS

A STRONG LOW PRESSURE SYSTEM WILL MOVE THROUGH THE GREAT LAKES ON SATURDAY. VERY STRONG FLOW OF MOIST AND UNSTABLE AIR WAS MOVING UP AHEAD OF THE LOW. A WARM FRONT EXTENDED SOUTHEAST FROM THE LOW INTO EXTREME SOUTHWEST INDIANA. MVFR CONDITIONS WILL OCCUR WITH SCATTERED TO NUMEROUS SHOWERS AND THUNDERSTORMS. THESE MAY GIVE IFR CONDITIONS. A COLD FRONT WILL MOVE THROUGH INDIANA SATURDAY AFTERNOON. THIS WILL PROVIDE THE FOCUS OF ANOTHER ROUND OF THUNDERSTORMS. SOME OF THESE STORMS MAY BE SEVERE WITH HAIL...WIND GUSTS OVER 40 KTS AND POSSIBLE TORNADOES.

18:51:27 SPECI KIND XX2350Z 15013KT 9SM -TSRA BKN012 OVC060 19/17  
A2968 RMK AO2 TSB50RAB41 FRQ LTGICCC VC SW-W TS VC SW-W MOV NE P0000 FIBI

18:52:08 METAR KIND XX2351Z 15013KT 9SM -TSRA BKN012 OVC060 19/17  
A2968 RMK AO2 TSB50RAB41 SLP048 FRQ LTGICCC VC SW-W TS VC SW-W MOV NE  
P0000 60001 T01890172 10194 20183 55027

19:26:56 SPECI KIND XX0025Z 26008KT 1 3/4SM +TSRA BR BKN012 OVC017  
18/18 A2976 RMK AO2 FRQ LTGICCCCG OHD-SW TS OHD-SW MOV NE P0011

19:38:57 SPECI KIND XX0037Z VRB04KT 3/4SM +TSRA BR SCT007 BKN012  
OVC020 18/18 A2973 RMK AO2 FRQ LTGICCCCG OHD-SW TS OHD-SW MOV NE P0035  
RVRNO

19:46:56 SPECI KIND XX0045Z 13011KT 3SM TSRA BR BKN012 OVC023  
18/18 A2971 RMK AO2 FRQ LTGICCC OHD-E TS OHD-E MOV NE P0055

19:53:21 SPECI KIND XX0052Z 13009KT 6SM -TSRA BR BKN016 BKN027  
OVC032 18/18 A2971 RMK AO2 FRQ LTGICCC VC E TS VC E MOV NE P0056 FIBI

19:55:55 METAR KIND XX0054Z 12008KT 6SM -TSRA BR BKN016 BKN025  
OVC032 18/18 A2971 RMK AO2 SLP058 FRQ LTGICCC VC E TS VC E MOV NE P0056  
T01830178

20:09:03 SPECI KIND XX0107Z 13008KT 8SM -RA FEW003 SCT019 BKN024  
18/18 A2970 RMK AO2 TSE07 OCNL LTGICCC DSNT E CB DSNT E MOV NE TS MOVD NE  
P0001

20:30:08 SPECI KIND XX0129Z 14012KT 8SM -RA FEW003 BKN013 BKN027  
OVC130 18/18 A2969 RMK AO2 TSE07 CB DSNT E MOV NE P0002 CNCL