



CCFP 2010

Overview of CCFP Including Changes for 2010

**Aviation Weather Center
Feb 17-19, 2010**

CCFP 2010 Schedule

Begin: 1 Mar, 0300 EST

End: 30 Oct, 1900 EDT

(Southern Ontario/Quebec: 1 Apr-30 Sep)

Schedule for Final Graphics:

0300 through 2100 (Eastern time, every 2 hours)

30 minute Collaboration Sessions:

:15 through :45 during hour prior to Final Graphics

chats open not later than :15

chats close automatically at :45

How is CCFP produced?

- **AWC develops prelim maps, then opens chat.**
- **Participants log into chat and view maps.**
- **Participants can suggest changes to prelims.**
- **AWC moderates chat, considers input.**
- **Chat closes at :45. AWC edits maps as needed, transmits final graphics by :00.**
- **Process resets for next production cycle.**

CCFP in Canada

- **Covers far southern Ontario/Quebec.**
- **Produced by Met Services Canada (Montreal).**
- **MSC has final responsibility for their area.**
- **ZMP/ZOB/ZBW can direct chat input to MSC as appropriate. We draw finals as MSC wants, for their area.**

AWC CCFP shifts

Mid shift 0000-0800 Central
produces 07z, 09z, 11z, 13z cycles

Day shift 0700-1500 Central
produces 15z, 17z, 19z cycles

Eve shift 1300-2100 Central
produces 21z, 23z, 01z cycles

CCFP desk not staffed from 2100-0000 Central

CCFP 2010 Forecasters

Mike McCoy (9th season)

Don Baker (8th season)

Bill Barlow (7th season)

Ed Holicky (5th season)

JoAnn Becker (2nd season)

CCFP 2010 Changes

- * **Redefined echo tops ranges (4 in all)**
- * **Redefined low/medium coverage criteria**
- * **New medium coverage line**
- * **Eliminate fast positive growth rate**
- * **Label modifications**

CCFP Minimum Criteria

Polygon of at least 3000 sq mi in which there is at least subjective “low” confidence in:

25% or greater coverage of the following:

40+ dbz Composite Reflectivity

and

FL250+ Echo Tops

Note:

Ltg/TS are not part of CCFP criteria.

CCFP is not a thunderstorm forecast.

CCFP 2010 Echo Tops

Labeled as follows, inside each area:

25000→29000 MSL = “290”

30000→34000 MSL = “340”

35000→39000 MSL = “390”

40000+ MSL = “>400”

If an area is too small, or areas are nested, top labels may be outside of areas, connected via arrows.

CCFP 2010 Echo Tops example

Need SCT (25+ percent) coverage

Example: within an area we forecast...

isol 400+,	wdly sct 350-390,	<u>sct 300-340</u> ,	bkn 250-290
<10%	10-24%	25-39%	40-74%

Graphic will show sparse coverage and 340 tops

CCFP tops are not MAX tops

CCFP 2010 Coverage Criteria

Sparse (Low) 25-39% (was 25-49%)

Medium 40-74% (was 50-74%)

High 75-100% (no change)

Important note

For med or high coverage, confidence is blue (high).

Confidence (by definition) refers to meeting minimum criteria (25% coverage of FL250+ tops), regardless of the attributes shown via the polygon.

CCFP 2010 Convective Lines

Two Types of Convective Lines

Line (75-100%, solid purple)

Medium Line (40-74%, dashed purple)

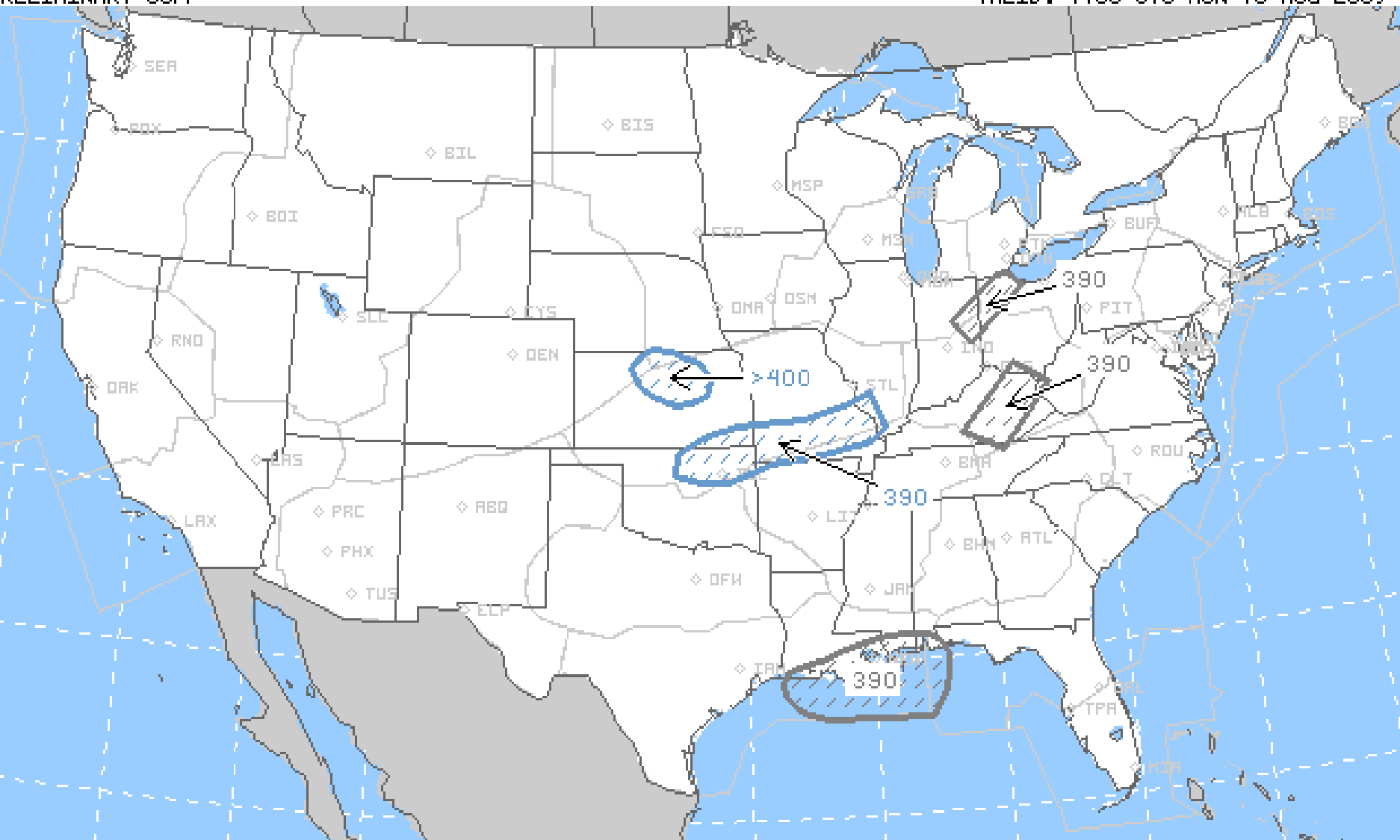
Note:

Lines can stand alone or be included within areas.

CCFP 2010 example

PRELIMINARY CCFP

VALID: 1700 UTC MON 10 AUG 2009



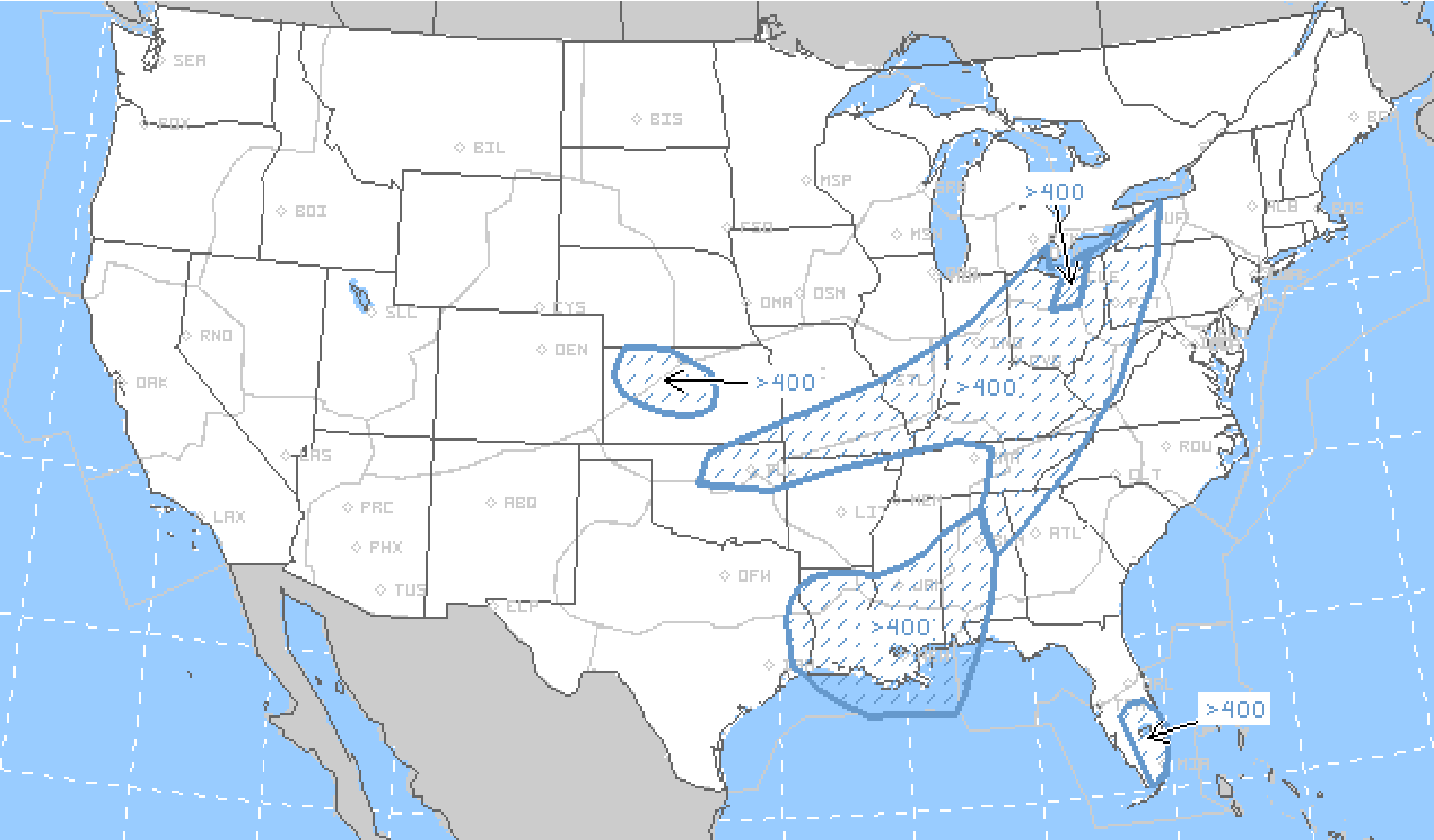
AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

ISSUED: 1500 UTC MON 10 AUG 2009

CCFP 2010 example

PRELIMINARY CCFP

VALID: 1900 UTC MON 10 AUG 2009



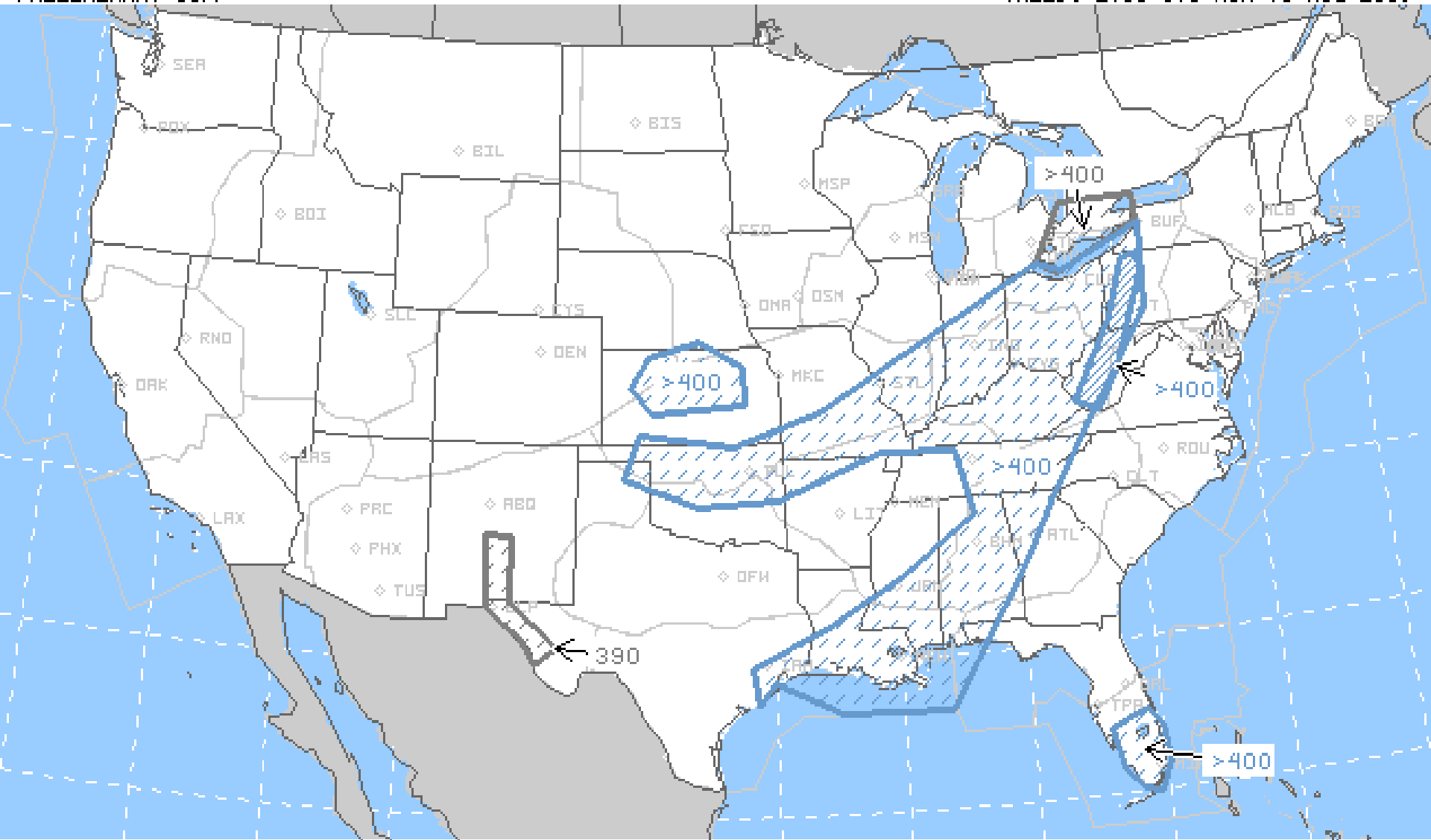
AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

ISSUED: 1500 UTC MON 10 AUG 2009

CCFP 2010 example

PRELIMINARY CCFP

VALID: 2100 UTC MON 10 AUG 2009



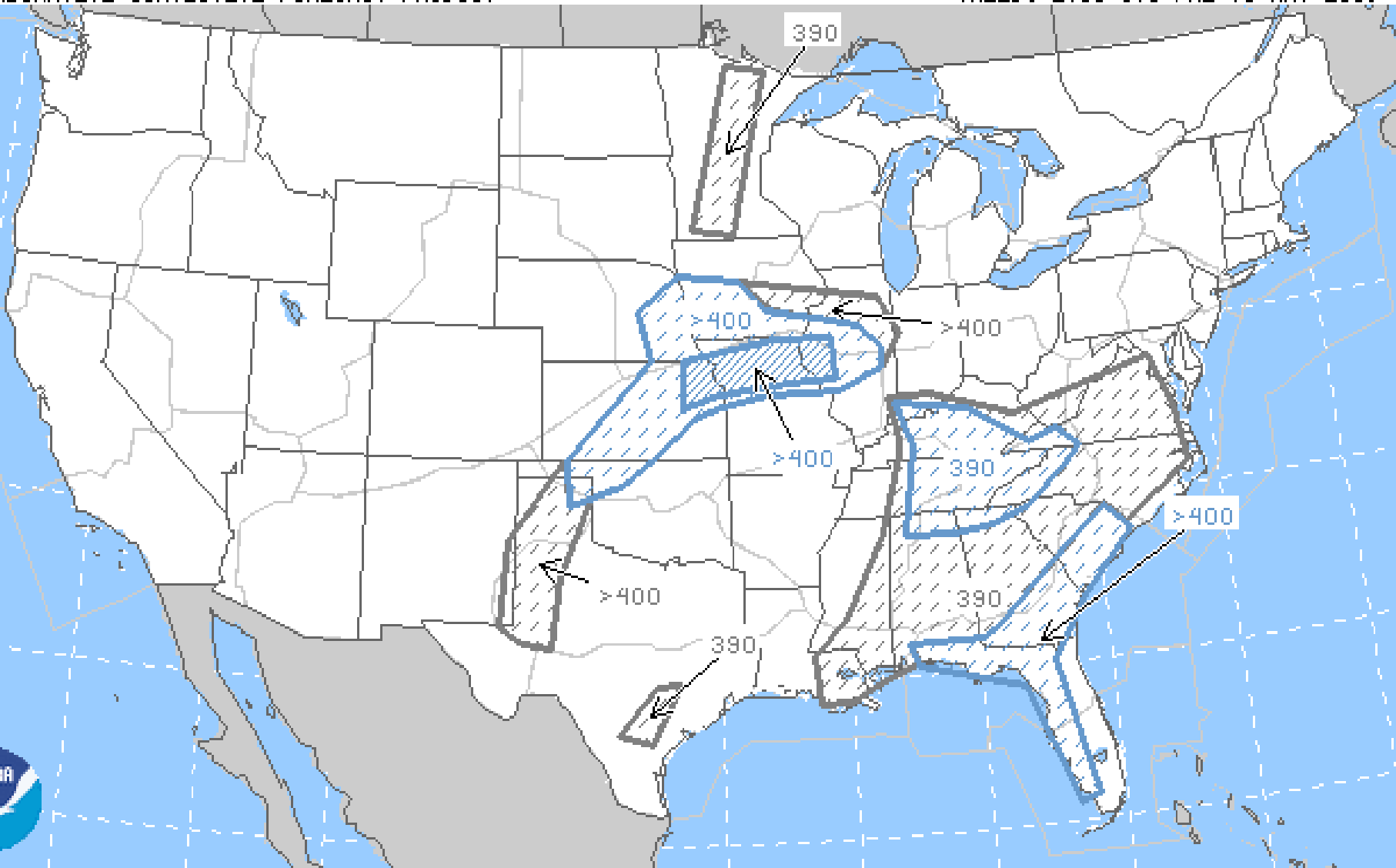
AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

ISSUED: 1500 UTC MON 10 AUG 2009

CCFP 2010 example

COLLABORATIVE CONVECTIVE FORECAST PRODUCT

VALID: 2100 UTC FRI 15 MAY 2009



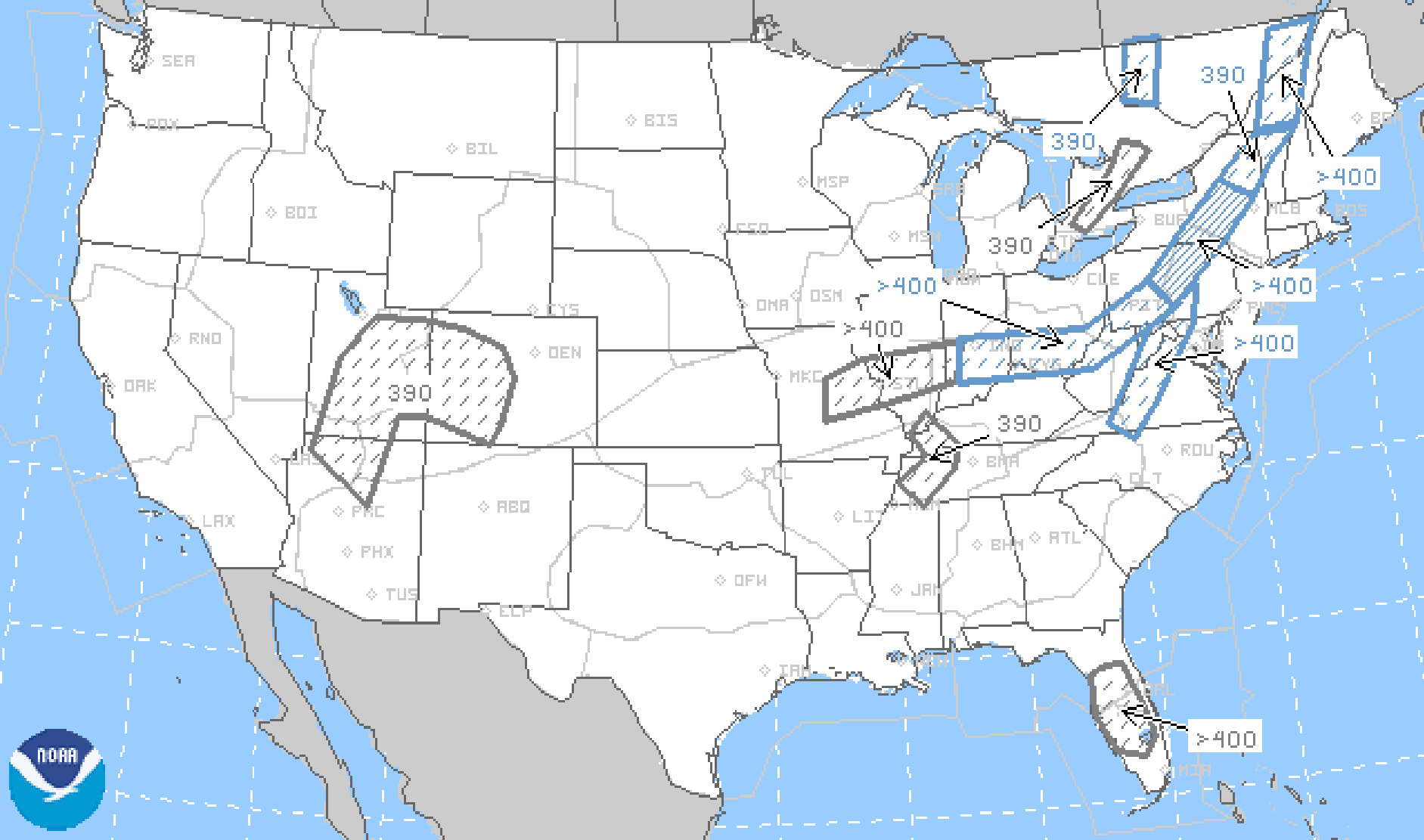
AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

ISSUED: 1900 UTC FRI 15 MAY 2009

CCFP 2010 example

COLLABORATIVE CONVECTIVE FORECAST PRODUCT

VALID: 2100 UTC SAT 11 JUL 2009



AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

ISSUED: 1900 UTC SAT 11 JUL 2009

CCFP & Tropical Cyclones

- **CCFP often overforecasts tropical cyclones.**
- **Sometimes inconsistent based on forecaster.**
- **Propose we simply apply CCFP criteria, same as with all convection, to tropical cyclones.**

Goal:

Reduce CCFP graphics, in many cases, associated with tropical cyclones. Improve consistency.

CCFP Schedule (DST)

Collaboration Period	Issuance Time	Two-hour Forecast	Four-hour Forecast	Six-hour Forecast
0615-0645 UTC (mid)	0700 UTC	0900 UTC	1100 UTC	1300 UTC
0815-0845 UTC (mid)	0900 UTC	1100 UTC	1300 UTC	1500 UTC
1015-1045 UTC (mid)	1100 UTC	1300 UTC	1500 UTC	1700 UTC
1215-1245 UTC (mid)	1300 UTC	1500 UTC	1700 UTC	1900 UTC
1415-1445 UTC (day)	1500 UTC	1700 UTC	1900 UTC	2100 UTC
1615-1645 UTC (day)	1700 UTC	1900 UTC	2100 UTC	2300 UTC
1815-1845 UTC (day)	1900 UTC	2100 UTC	2300 UTC	0100 UTC
2015-2045 UTC (eve)	2100 UTC	2300 UTC	0100 UTC	0300 UTC
2215-2245 UTC (eve)	2300 UTC	0100 UTC	0300 UTC	0500 UTC
0015-0045 UTC (eve)	0100 UTC	0300 UTC	0500 UTC	0700 UTC

Training Documents Available

- * **CCFP Quick Reference Guide**

- * **CCFP Product Description Document**

Contains detailed description of CCFP ASCII coded text message, which is the official CCFP product

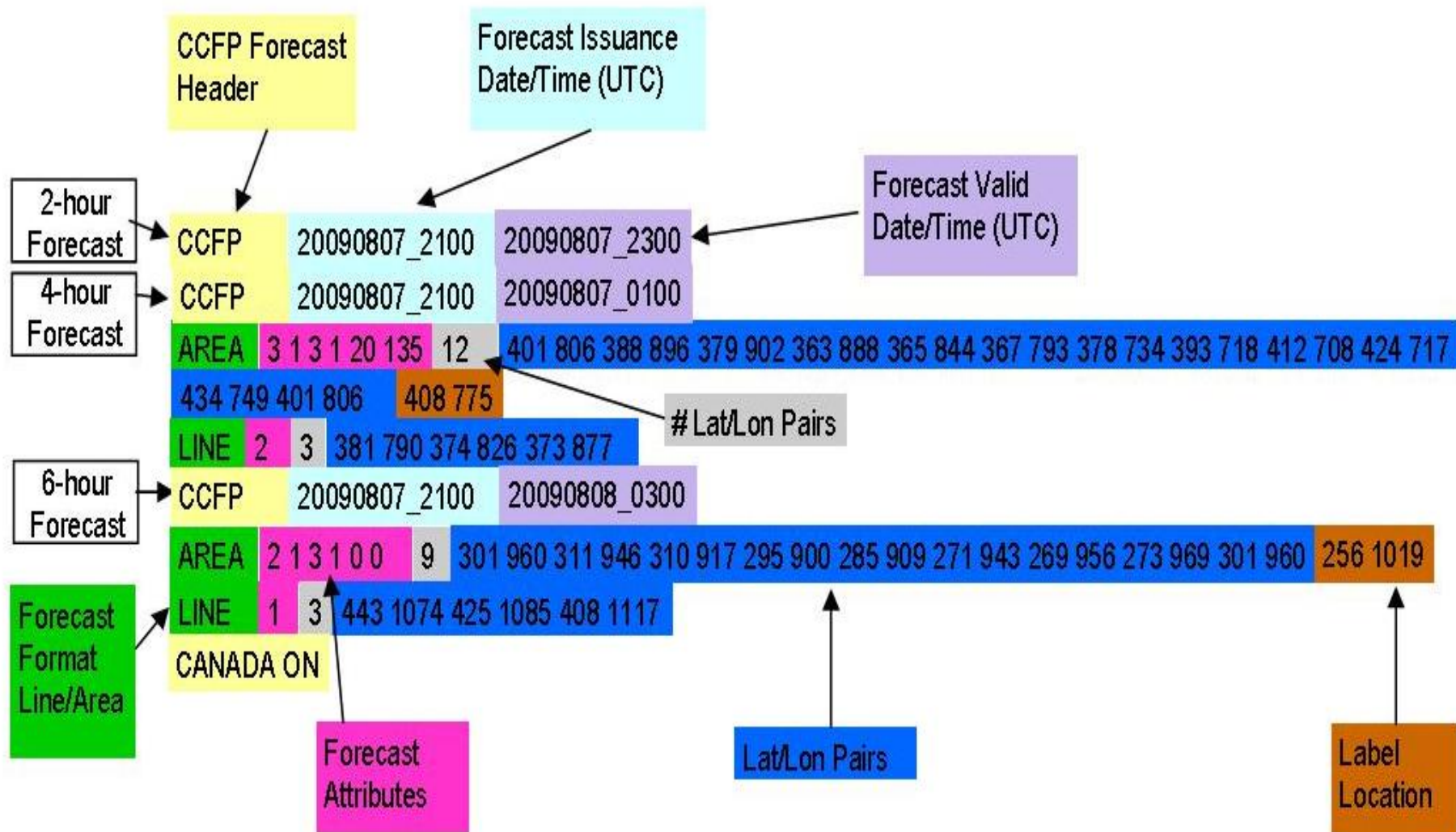
AWIPS products

FAUS27 KKCI (2hr forecast)

FAUS28 KKCI (4hr forecast)

FAUS29 KKCI (6hr forecast)

CCFP ASCII Coded Text Product



CCFP Collaboration Practices

CWSU perspective

Reference: email from Chip West (MIC ZTL), who solicited input from CWSU MICs and acting MICs in 2007

- **Silence is concurrence.**
- **Should be discussion with AWC, based on *meteorological reasoning*, if changes proposed.**
- ***Generally*, comment on own airspace only. Understandable for occasional comments on *adjacent* airspace.**
- **Input to chat as early as practical.**
- **Comments on forecast restricted to meteorologists.**
- **Consider raising CCFP priority (now 13 of 13).**

CCFP Collaboration Practices

AWC perspective

- Collaborators invited without solicitation. Chat is scheduled.
- Input early in chat is helpful, however, we understand not always practical.
- If CWSU not logged on we may ask opinion of adjacent center. If CWSU logged on but silent, we assume satisfaction with prelims for their airspace.
- We should acknowledge all input suggesting change. We may not acknowledge simple concurrence with prelim.
- Prefer not to receive phone calls after the chat. *Occasional* calls are understandable and we may make *occasional* calls. In general, desirable for issues to be dealt with in chat, for *all* to see.

CCFP 2010 Testing

- *Thu Feb 25 and Fri Feb 26*
- Test chats at **1315z, 1515z, 1715z** each day
- Test finals at **1400z, 1600z, 1800z** each day



Questions/Discussion?

For additional questions or comments please contact

Fred Johnson (Fred.Johnson@noaa.gov)