

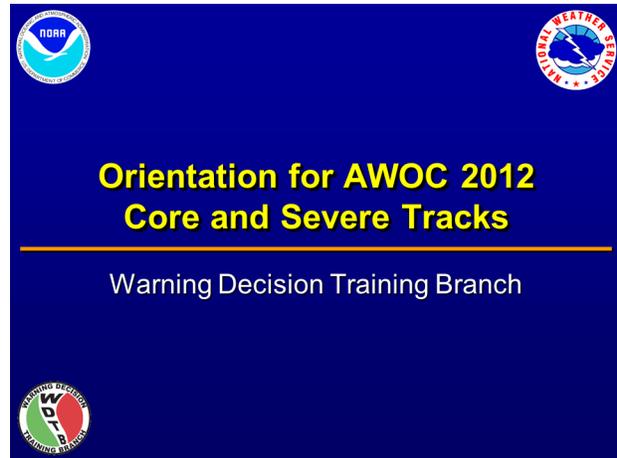
---

---

# 1. Orientation for AWOC 2012 Core and Severe Tracks

**Instructor Notes:** Welcome to the live Orientation session for 2012 version of the Advanced Warning Operations Course (AWOC) Core and Severe Tracks. The purpose for this orientation is to describe the AWOC Core and Severe Tracks and some of the changes in the content and design for this year. We will also talk about the rationale for the course, the required learning activities, how to complete the course, course facilitation, scheduling issues, and important WDTB help mechanisms.

**Student Notes:**



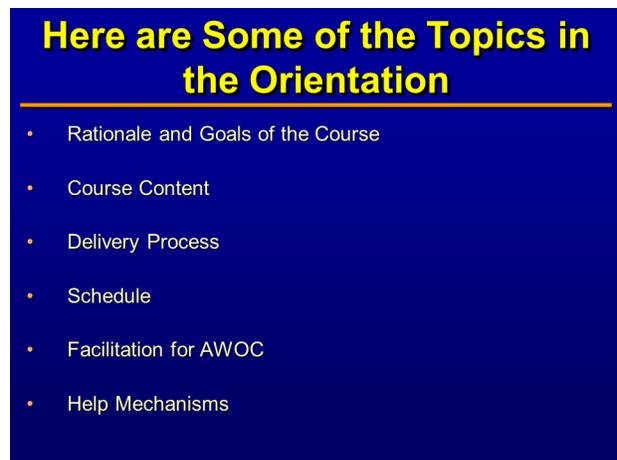
---

---

# 2. Here are Some of the Topics in the Orientation

**Instructor Notes:** This is what we will cover in this orientation.

**Student Notes:**



---

---

### 3. What are the Goals of the Course?

**Instructor Notes:** AWOC Core and Severe are composed of the science, technology, and human factors associated with severe weather warning decision making. There are a very complex set of factors that go into the warning decision making process and these courses were designed to help you with all the various aspects of WDM. The Winter Weather Advanced Warning Operations Course is also available for those interested in all aspects of winter weather decision making. This Orientation will focus only on the Core and Severe Tracks.

**Student Notes:**

**What are the Goals of the Course?**

The Purpose Of AWOC

“To provide training to all forecasters on warning decision making principles”

To warn      To not warn

---

---

### 4. Why AWOC?

**Instructor Notes:** Together, AWOC Core, Severe and Winter tracks directly or indirectly address these NWS Government Performance Review Act (GPRA) metrics.

**Student Notes:**

**Why AWOC?**

1) Tornado Warning - Lead Time  
2) Tornado Warning - Accuracy  
3) Tornado Warning - False Alarm Ratio  
4) Flash Flood Warning - Lead Time  
5) Flash Flood Warning - Accuracy  
6) Winter Storm Warning - Lead Time  
7) Winter Storm Warning - Accuracy

8) Hurricane Track Forecasts (48 Hrs)  
9) Aviation Forecast - Accuracy  
10) Aviation Forecasts - False Alarm Ratio  
11) U.S. Seasonal Temperature - Skill  
12) Precipitation Forecast - Day 3 Accuracy  
13) Marine Wind Speed - Accuracy  
14) Marine Wave Height - Accuracy

7 of 14 NWS GPRA Goals Address Warning Operations

NOAA      NATIONAL WEATHER SERVICE      ADVANCED WARNING OPERATIONS COURSE

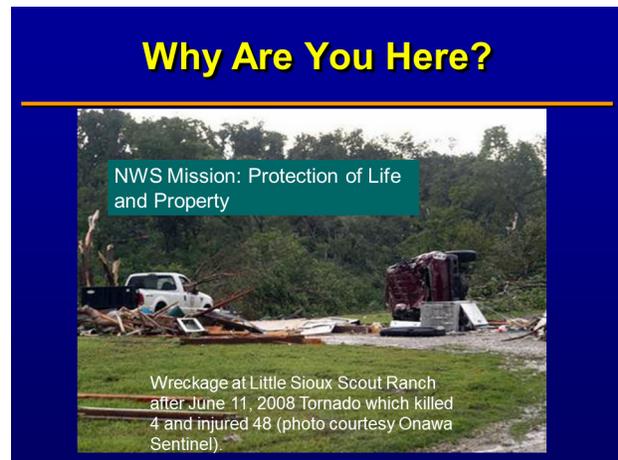
---

---

## 5. Why Are You Here?

**Instructor Notes:** AWOC is intended to provide you the opportunity to learn the latest in warning decision making principles, and is designed to be transferred directly into warning operations so you can be highly proficient to perform during severe weather events. We do our best because it is our utmost mission, that of protection of lives and property. This is the story of the Boy Scout camp in western Iowa that was hit by a tornado on June 11, 2008. "We were sitting there watching lightning ... and we saw the tornado come around the end of a bluff toward the entrance of the camp," Rob Logsdon, camp staff leader, said. "So we flipped on the siren, and the youth staff members ran to the assigned shelters." The adult leader ordered everyone to get under the tables. "All of a sudden, two seconds later, the tornado was on top of us," Logsdon said. "I know it picked up our adult leader's car and threw it 50 yards, easy." Camper Ben Karschner said it was over quickly. Eight seconds, and the tornado passed. That was like the longest eight seconds I've ever had," he told CNN affiliate KETV in Omaha. Thomas White, an 18-year-old Eagle Scout and staff member, said he lay on the ground with several of the younger Scouts as the tornado roared through. "The grace of God helped us for sure," he said. Logsdon said one of his friends was among the four scouts killed. 48 others were injured.

**Student Notes:**



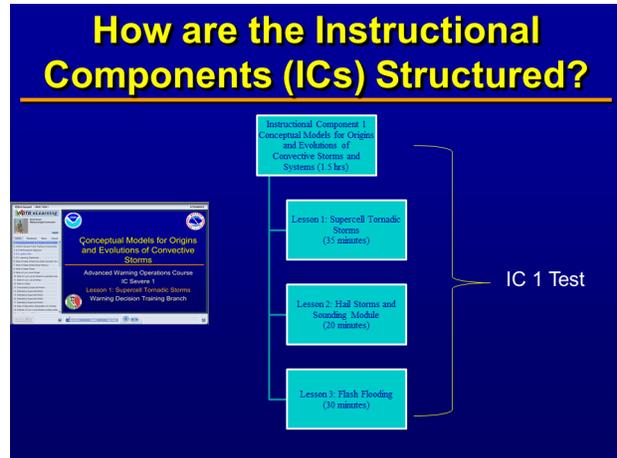
---

---

## 6. How are the Instructional Components (ICs) Structured?

**Instructor Notes:** There are multiple lessons within each IC. For both tracks, there are tests that are required to complete an Instructional Component. These tests are taken in the LMS and address the learning objectives for the various lessons.

Student Notes:



---

## 7. Changes to 2012 AWOC Core

**Instructor Notes:** Here are some recent changes that have been incorporated into the Core Track. These sections would be appropriate for forecasters who have not gone through AWOC Core in the past couple years.

Student Notes:

**Changes to 2012 AWOC Core**

- Recent Changes to Core Track
  - ❖ IC Core 2 Lesson 5: "Maintaining Situation Awareness by Managing the Unexpected" (2010)
  - ❖ IC Core 3 Lesson 4: "Incident/Event and Decision Support" (2010)
  - ❖ IC Core 4 Lessons 3: "Progress in Weaving Social Science into the Warning Response Process" (2011)
  - ❖ No changes from 2011 to 2012.



---

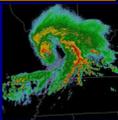
## 8. Changes to 2012 AWOC Severe

**Instructor Notes:** These are recent changes to the AWOC Severe Track. These sections would be appropriate for forecasters who have not gone through AWOC Severe in the past couple years.

Student Notes:

**Changes to 2012 AWOC Severe**

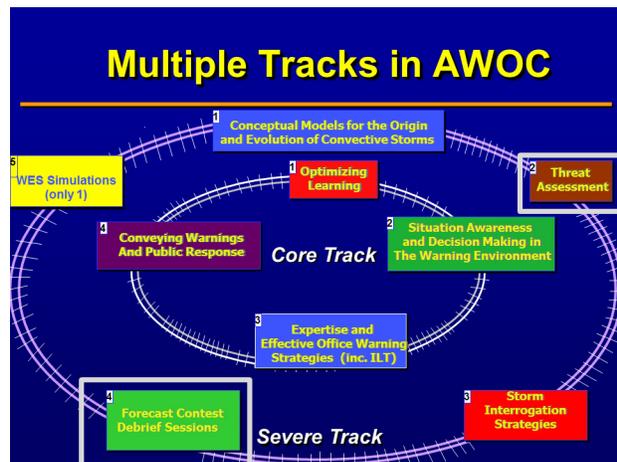
- Changes to Severe Track
  - ❖ Forecast Challenge is Required (2012)
  - ❖ IC Severe 2: Threat Assessment and Pattern Recognition (HIHE – Using Anomalies and Ensembles to better anticipate flood events) (2012)
  - ❖ IC Severe 2 Lesson 3: Threat Assessment of Quasi-Linear Convective Systems (QLCS) (2010)
  - ❖ IC Severe 3 Section 5: Storm Interrogation Strategies of QLCS Mesovortices (2010)
  - ❖ IC Severe 3 Section 3: Supercell Collapse Phase (2010)



## 9. Multiple Tracks in AWOC

**Instructor Notes:** We offer two separate tracks of curriculum to weather forecasters. The course instructional components (ICs) represent a blended distance learning course, using both asynchronous and synchronous training. Each IC has learning and performance objectives which provide a roadmap for completion. The course will be available on the LMS in early March.

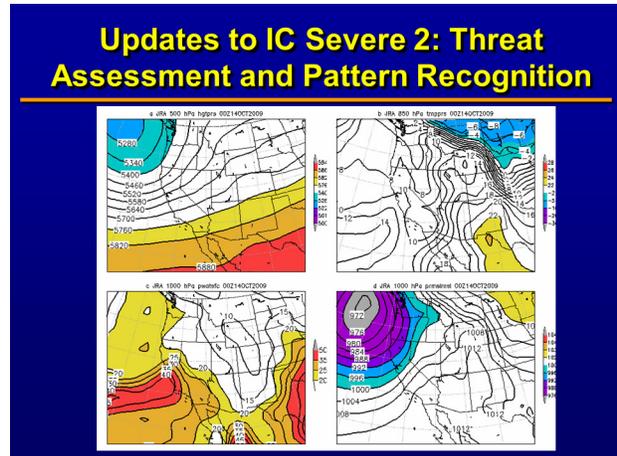
Student Notes:



## 10. Updates to IC Severe 2: Threat Assessment and Pattern Recognition

Instructor Notes:

Student Notes:

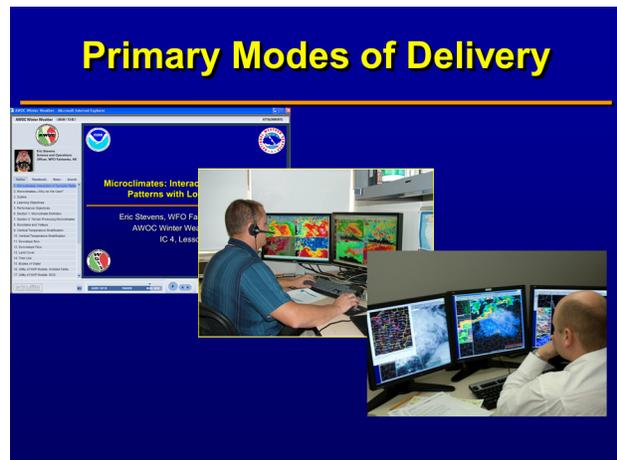


---

## 11. Primary Modes of Delivery

**Instructor Notes:** AWOC Core and Severe use Web-based Training (WBT) with Articulate Presenter, some instructor-led teletraining (ILT) using Gotomeeting and/or VISIT-view, plus simulations using the Weather Event Simulator.

Student Notes:



---

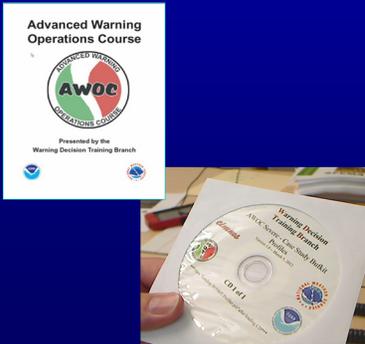
## 12. Course Materials and Instructions

**Instructor Notes:** These are the instructional media that you will have that will enable you to complete AWOC. Student guides should have arrived on station along with a CD containing BUFKIT sounding data for the Case Study Page you will use to make a Forecast as part of the AWOC Severe Pre-requisite. Remember, if you encounter problems with playing any of the Articulate presentations from the LMS (which link to our Web site), you can download them as a Zip file. Also, if you have extremely slow bandwidth, you can request a copy of the presentations. Remember, if you play the lessons locally, you must log into the LMS to take the Tests to get credit for completing the Course.

Student Notes:

### Course Materials and Instructions

- Speaker Notes and Binder
- Case Study Sounding data disk for Forecast Challenge pre-req
- Lesson Presentation DVD  
— (by request only)

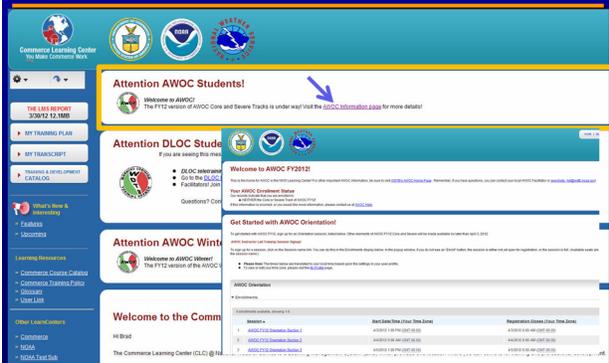


## 13. AWOC Learning Plans in the LMS

**Instructor Notes:** Students enrolled in AWOC Core or Severe will see a message upon logging into the LMS which says “Attention AWOC Students”. From there you can access the Learning Plans which will be used for enrollment within each Track.

Student Notes:

### AWOC Learning Plans in the LMS



The screenshot shows the LMS interface with a navigation menu on the left and several announcement boxes. The top announcement is titled "Attention AWOC Students" and includes a link to the AWOC information page. Below it is an announcement for "Attention DLOC Students" with links for DLOC materials, DLOC to the AWOC, and Facilities. The bottom announcement is titled "Attention AWOC Winter" and includes a link to the AWOC information page. A table at the bottom of the page lists various courses and their details.

Course	Start Date/Time Class/Time (EST)	Registration Dates Class/Time (EST)
AWOC 210 (Severe/Severe)	4/23/12 10:00 AM (EST) (EST)	4/23/12 10:00 AM (EST) (EST)
AWOC 210 (Severe/Severe)	4/23/12 10:00 AM (EST) (EST)	4/23/12 10:00 AM (EST) (EST)
AWOC 210 (Severe/Severe)	4/23/12 10:00 AM (EST) (EST)	4/23/12 10:00 AM (EST) (EST)
AWOC 210 (Severe/Severe)	4/23/12 10:00 AM (EST) (EST)	4/23/12 10:00 AM (EST) (EST)
AWOC 210 (Severe/Severe)	4/23/12 10:00 AM (EST) (EST)	4/23/12 10:00 AM (EST) (EST)

## 14. How Do I Do ILTs?

**Instructor Notes:** You can move through AWOC courses much in the same way as you did DLOC. Once assigned the Core and Severe Learning Plans, you can navigate through the course to take the materials, exams, and register (enroll) for Instructor Led Training (ILT) events. The Learning Plans will be available by the first week of April. For most of AWOC, once you complete an event, you will automatically be marked “completed” in your Development Plan.

Student Notes:

## How Do I Do ILTs?

**Get Started with AWOC Orientation!**

To get started with AWOC FY12, sign up for an Orientation session. Listed below Other elements of AWOC FY12 Core and Severe will be made available no later than April 3, 2012.

**AWOC Orientation - Led Training Session Sign-up!**

To sign up for a session, click on the Session name link. You can do this in the Enrollments display below. In the popup window, if you do not see an "Enroll" button, the session is either not yet open for registration, or the session is full. (Available seats are displayed in the popup after clicking on the session name.)

- **Please Note:** The times below are translated to your local time based upon the settings in your user profile.
- To view or edit your time zone, please visit the [My Profile](#) page.

**AWOC Orientation**

Enrollments

Enrollments available, showing 1-6

Session	Start Date/Time (Your Time Zone)	Registration Closes (Your Time Zone)
1 AWOC FY12 Orientation Section 1	4/3/2012 1:00 PM (GMT-06:00)	4/3/2012 8:00 AM (GMT-06:00)
2 AWOC FY12 Orientation Section 2	4/4/2012 9:00 AM (GMT-06:00)	4/4/2012 8:00 AM (GMT-06:00)
3 AWOC FY12 Orientation Section 3	4/5/2012 1:00 PM (GMT-06:00)	4/5/2012 8:00 AM (GMT-06:00)
4 AWOC FY12 Orientation Section 4	4/10/2012 1:00 PM (GMT-06:00)	4/10/2012 8:00 AM (GMT-06:00)
5 AWOC FY12 Orientation Section 5	4/11/2012 9:00 AM (GMT-06:00)	4/11/2012 8:00 AM (GMT-06:00)
6 AWOC FY12 Orientation Section 6	4/12/2012 1:00 PM (GMT-06:00)	4/12/2012 8:00 AM (GMT-06:00)

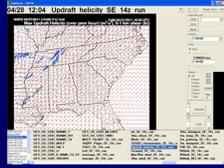
## 15. New ILT Requirements in AWOC Severe

Instructor Notes:

Student Notes:

## New ILT Requirements in AWOC Severe

- No more instructor-led teletraining sessions (like DLOC Topic 7)
- Must Sign-Up and attend 3 Forecast Debriefing Sessions
  - 30-60 min each
  - Mid-April to Mid-July
- Must make 2 forecasts
  - Each Week Prior to Debrief



## 16. Simulation Requirements

Instructor Notes:

Student Notes:

**Simulation Requirements**

- Only 1 WES simulation Session
  - 1 Case-study or
  - 1 of 3 DRTs

Warning Decision Training Branch  
 WDTB Training  
 003 Localization  
 Update 002 v1.8  
 06/17/11

See Instructions for  
 on the DVD for  
 installation  
 instructions

Case Update on this DVD:  
 - Updated 003 Localization  
 - Updated 002 v1.8  
 - Updated 001 v1.8

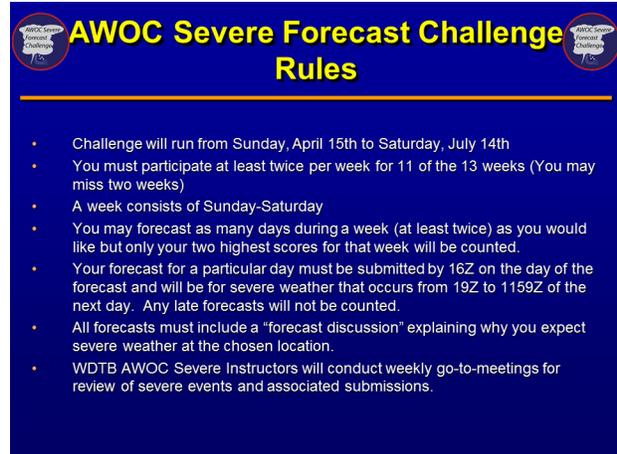
Advanced Warning Operations Course  
 Simulation Guide:  
 May 8, 2009 QLCS Event  
 Presented by the  
 Warning Decision Training Branch

AWOC Winter FY2012 Orientation Session 5	LT Session	3/2/2011 8:00 AM (est.) 01:00	24 / 30	✓				
AWOC Winter FY2012 Orientation Session 6	LT Session	3/2/2011 8:00 AM (est.) 01:00	26 / 30	✓				
FY11 AWOC Severe WES Session	LT Session	6/19/2011 7:00 AM (est.) 01:00	91 / 1000	✓				
Section 1 - AWOC Core 3 Lesson 3: Learning from Post-Mortems	LT Session	3/3/2008 12:00 PM (est.) 01:00	7 / 17	✓				
Section 1 - AWOC Severe 4: Lesson 1: Severe Track Review	LT Session	3/3/2008 12:00 PM (est.) 01:00	8 / 16	✓				

## 17. AWOC Severe Forecast Challenge Rules

**Instructor Notes:** The AWOC Severe Forecast Challenge is a way for you to put the lessons learned as you go through AWOC Severe to work through issuing forecasts for severe weather throughout the Continental United States (CONUS). The Challenge also provides an opportunity to stay in tune with severe weather patterns throughout the country in the event you work in a CWA that does not normally experience severe weather. The challenge will run from Sunday, April 15th through Saturday, July 14th. In order to satisfy the requirements of the challenge, you must issue at least 2 forecasts per week (forecast for 2 different days) for 11 of the 13 weeks of the challenge. This allows for you to miss 2 weeks of forecasts and still satisfy the requirements, however you may (and are encouraged) to forecast more frequently than that. If you issue more than 2 forecasts for a given week, we will count your 2 highest scores for the week. In the same way, you may forecast for all 13 weeks if you'd like, in which case we will drop your 4 lowest scores accumulated throughout the challenge. Your forecast for any given day must be submitted by 16Z on the day for which you are forecasting for and will be for severe weather occurring between 19Z the day you forecast through 1159Z the next day. Each forecast is required to include a discussion explaining the reasoning behind choosing the location and type of severe weather you forecast for. WDTB instructors will review and provide feedback on your discussions at least once every 2 weeks. Finally weekly discussions will be conducted by WDTB instructors through go-to-meeting covering severe weather events over the past week, reviewing forecasts and providing their insight on the events.

Student Notes:



**AWOC Severe Forecast Challenge Rules**

- Challenge will run from Sunday, April 15th to Saturday, July 14th
- You must participate at least twice per week for 11 of the 13 weeks (You may miss two weeks)
- A week consists of Sunday-Saturday
- You may forecast as many days during a week (at least twice) as you would like but only your two highest scores for that week will be counted.
- Your forecast for a particular day must be submitted by 16Z on the day of the forecast and will be for severe weather that occurs from 19Z to 1159Z of the next day. Any late forecasts will not be counted.
- All forecasts must include a "forecast discussion" explaining why you expect severe weather at the chosen location.
- WDTB AWOC Severe Instructors will conduct weekly go-to-meetings for review of severe events and associated submissions.

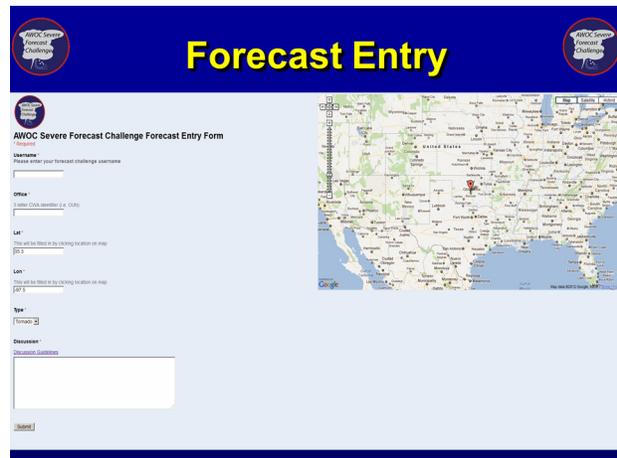
---

---

## 18. Forecast Entry

**Instructor Notes:** In order to enter your forecast, you will provide us with an unique username that we can use to identify you when we display forecasts and results. You will then enter your username and office in the form, you can click anywhere on the interactive Google Map to move the pin to location you are forecasting for, this will automatically populate the Lat and Lon fields. Finally make sure you enter a discussion (by clicking the "Discussion Guidelines" link you will be provided with a list of things to think about in making your forecast and writing up your discussion) and click "Submit"

Student Notes:



**Forecast Entry**

AWOC Severe Forecast Challenge Forecast Entry Form

Username:

Office:

Lat:

Lon:

Type:

Discussion:

Submit

---

---

## 19. Scoring

**Instructor Notes:** Your forecasts will be scored off the local storm reports (LSR's) received by the Storm Prediction Center (SPC) and will be scored up to one week after a particular day to account for storm surveys, late reports and erroneous reports. Forecasts will be scored by the distance a report is received from your forecast point (100 for a forecast point with a report within 2 miles out to 10 points for forecasts with a report within 75-100 miles). In addition you have the opportunity to receive bonus points if the

## AWOC FY12 Orientation

type of severe weather you forecast (i.e. you forecast hail and hail occurs) either anywhere within 25 miles of your forecast point OR is the closest report received within 100 miles of your forecast point (this is what we consider a “correct” forecast). Additional bonus points can be earned if significant severe weather of the type forecast occurs anywhere within a 25 mile radius of your forecast point.

### Student Notes:

The screenshot displays the 'Scoring' interface for the AWOC Severe Weather Forecast Challenge. The main heading is 'Scoring' in yellow. Below it, the verification details for point 40.51693121 -101.6407013 are shown, including the closest report distance of 0.165397493456 miles. The interface is divided into sections for 'Reports within 25 miles', 'Tornado', 'Hail', and 'Wind'. Each section contains a table with columns for Report ID, Report Date, County, State, Forecast Type, and Score. The 'Hail' section shows a score of 50 points for a 'Significant hail within 25 mi' forecast. The 'Tornado' section shows a score of 0 points for a 'Tornado' forecast. The 'Wind' section shows a score of 0 points for a 'Wind' forecast. The interface also includes a 'Participant's Forecast' section on the left and a 'Calculated Score' section on the right.

## 20. Displaying Results

**Instructor Notes:** You will be provided with a set of links that will allow you to review results of your forecasts. Each day WDTB will publish a list of forecasts issued for a given day with a “map” link at the top. Clicking on this link will allow you to view an interactive Google Map displaying all the forecasts issued for a given day. By clicking on the different forecast points you can view the type of severe weather forecast, the forecaster’s username and their discussion in order to see what fellow students were thinking and compare your thought process to that of others in the course. Finally a current standings page will be updated daily showing where you rank in relation to other forecasters participating in the challenge. A results page will also be posted each day in a similar manner, showing the scores from the previous day. Again, you will find a map link at the top of this page, clicking on the link will take you to an interactive Google Map displaying all the forecasts from the previous day, with each forecasters’ score, discussion and forecast type. SPC reports received from the previous day will also be plotted on this map, allowing you to compare where reports were received with your forecast.

Student Notes:

**2011 Final Station Scores**

Blue scores indicate correct forecast type  
(Note: The maps may include reports before 19Z and/or after 0Z. Some maps also have multiple "pages" of reports.)

Place	Name	Score	Correct Forecast Types
1	StormChas	130	28
2	Rbraun24	110	29
3	draaikolk	90	29
4	theta e	90	28
5	rk21	80	27
6	Saltair222	80	28
7	Nacho Libre	80	27
8	Monsoon	80	23
9	Scooby Do	80	21
10	PennState	10	24
11	Polarlowam	110	20
12	oct11	150	24
13	Boiler3244	150	27
14	Team Back-Door W	130	22
15	bowler	110	22
16	Jano2	110	19
17	tlq107	110	18
18	Mtnseeker	90	20
19	WDX0F	0	17
20	BIGMIK	0	16

## 21. FY12 Debrief Schedule (Note all start at 16z)

**Instructor Notes:** A list of the dates of the weekly debrief sessions is shown here, these are also listed in the LMS (more on this later). All of these sessions will start at 16Z and will talk about severe weather events that have occurred over the past week. You are welcome to attend these calls as often as you like but will be required to attend at least 3 of them as part of the AWOC Severe course requirements.

Student Notes:

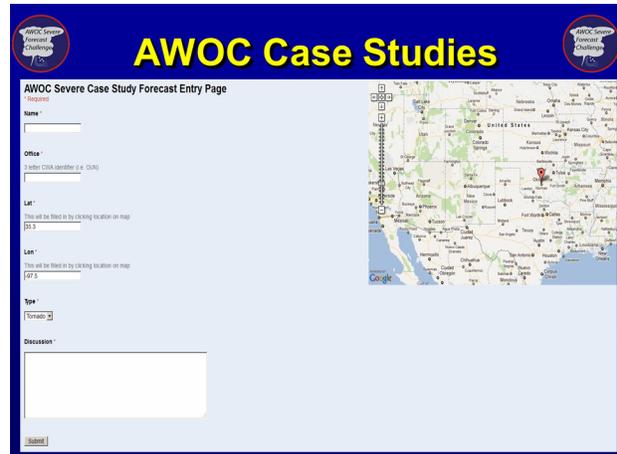
**FY12 Debrief Schedule (Note all start at 16z)**

1. Fri: April 20	8. Tue: May 29
2. Thu: April 26	9. Wed: June 6
3. Wed: May 2	10. Thu: June 14
4. Tue: May 8	11. Mon: June 18
5. Mon: May 14	12. Fri: June 22
6. Mon: May 21	13. Fri: June 29
7. Wed: May 23	14. Thu: July 5
	15. Wed: July 11

## 22. AWOC Case Studies

**Instructor Notes:** Before you start the AWOC Severe Course, you are required to complete a case study from a previous event and issue a forecast for severe weather for a location of your choosing in the CONUS after viewing the data. You will also be provided with a CD that contains forecast soundings in BUFKIT format that you can use to help in the forecast process. Once you have completed your analysis, go to the case study forecast entry page and enter your forecast, complete with discussion and WDTB instructors will mark you complete.

Student Notes:



---

## 23. AWOC Severe Requirements

**Instructor Notes:** As part of AWOC Severe, there are several challenge-related requirements for you to complete. First, you are required to complete a case-study both before you begin to take course material as well as after you complete the course material. You are also required to issue 6 forecasts (2 forecasts/week for 3 weeks during the challenge) and attend the weekly go-to-meeting for each of the 3 weeks that you choose to forecast for. Participation in the remainder of the challenge is voluntary, however there are several perks for those that participate: The top 3 finishers in the challenge will receive a plaque commemorating their achievement as one of the top finishers in the FY12 AWOC Severe Forecast Challenge. Additionally everyone that successfully completes the requirements of the challenge will receive a WDTB “Drag me to Storm” T-shirt.

Student Notes:



---

## 24. Important Dates

**Instructor Notes:** Here are a few of the important dates with regard to AWOC Core and Severe. The course will not be activated until all Orientation sessions have completed. This doesn't mean you can begin mapping out your strategy.

Student Notes:

### Important Dates

---

- ✓ March 22 – Student Guides mailed out
  - Should have these on site
- ✓ April 3 – AWOC Courses activated on LMS
  - Start taking the Course
  - Begin registration for the Core and Severe Teletraining Sections
- ✓ Sept 30 – AWOC Core/Severe Completion Date
  - Exception: Core Assignments can be submitted through December 31

---

## 25. Slide 25

**Instructor Notes:** As mentioned earlier, most of AWOC is a series of self-paced Web-Based Training courses. There are also some instructor-led training (ILT) instructional components. Each section of the AWOC Core and Severe ILTs is offered several times throughout the Spring and Summer. Registration is first come, first served so coordinate registration with local office management to ensure no conflicts with local facilities. For course planning, again, you choose the time between teletraining sessions. It is up to you and your local management to find the best time for dedicated training. We will post a schedule on our AWOC web site so you can plan. Teletraining registration opens in April .

Student Notes:

### AWOC Core and Severe Schedule

---

The diagram is a Gantt chart showing the schedule for AWOC Core and Severe from February to December. The x-axis represents months: Feb, March, April, May, June, July, Aug, Sept, Oct, Nov, Dec. A vertical yellow bar labeled 'Orientation' spans from the start of April to the end of April. A horizontal double-headed arrow labeled 'Core sessions' spans from the start of May to the end of August. A horizontal double-headed arrow labeled 'Severe debrief sessions' spans from the start of May to the end of July. A horizontal double-headed arrow labeled 'WES sim' spans from the start of May to the end of August. A horizontal double-headed arrow labeled 'Forecast Challenge' spans from the start of May to the end of July. A horizontal arrow labeled 'Complete Web Based Training' points from the start of August to the end of September. A horizontal arrow labeled '4 Core Assignments' points from the start of October to the end of December. A vertical label 'Tracks Completed' is positioned on the right side of the chart, corresponding to the end of the 'Complete Web Based Training' arrow. Below the chart, a white box contains the text: 'Enroll on the LMS for ALL ILT sessions (Orientation + 1 Core + 3 Severe)'.

---

## 26. Plan a Manageable Workload

**Instructor Notes:** Accomplishing a course that long, complex and at a distance requires some planning. This document will help you think ahead and plan around office resources as well as your own workload. You don't want to find yourself having to do half of the course in the final week!

Student Notes:

### Plan a Manageable Workload

Lesson	Development Plan (Year Created/updated)	Expected Completion	Actual Completion
AWOC Core Orientation	Core (07)		
AWOC Core IC 1: Optimizing Learning	Core (07)		
Core 1: Overview			
AWOC Core IC 2			
Lesson 1: The Warning Process and the Role of Intuition	Core (05)		
Lesson 2: Individual Situation Awareness	Core (05)		
Lesson 3: Team Situation Awareness	Core (05)		
Lesson 4: Situation Awareness: Victims, The Enemies of Situation Awareness	Core (05)		
AWOC Core IC 3: Maintaining Situation Awareness by Managing the Unexpected	Core (10)		
Core 3: Introduction/Lessons 1-3			
AWOC Core IC 3.1: Expertise	Core (05)		
AWOC Core IC 3.2: Cognitive Task Analysis of Expert Warning Forecasters	Core (05)		
AWOC Core IC 3.3: Learning from Post-Mortems	Core (11)		
Role Case Analysis Assignment 1 (Due by 12/31/10)	Core		
Role Case Analysis Assignment 2 (Due by 12/31/11)	Core		
Role Case Analysis Assignment 3 (Due by 12/31/11)	Core		
AWOC Core IC 3.4: Incident Decision and Support	Core (10)		
Assignment 4	Core		
Core 3: Quiz/Survey (Lessons 1-4)			
AWOC Core IC 4: Precursor Radar Warning Issues	Core (07)		
AWOC Core IC 4.1: Mitigating Potential Errors in Weather Research	Core (10)		
AWOC Core IC 4.2: The Warning Response Process	Core (05)		
AWOC Core IC 4.3: Effective Warnings	Core (10)		
AWOC Core IC 4.4: Progress in Warning Social Science into the Warning Response Process	Core (11)		

- Check sheet in student guide
- Paper copy of Development Plan
- Use for planning strategy
  - Manage your workload
  - Availability of offices resources

## 27. What are the Factors for Effective Performance?

**Instructor Notes:** These factors have been determined from research by Broad and Newstrom, 1992 and Broad (2005). For effective performance, it requires much more than knowledge and skills. All six of the factors in the table shown here are necessary to support full performance. For a specific performance requirement: NWS Forecasters making accurate and timely warning decisions, there are 3 main stakeholder groups: 1. Instructors (Training designers and facilitators) 2. Students (learners/performers) 3. Managers (including executives and supervisors) The red circle shows which stakeholder group is responsible for making sure each factor is in place. To elaborate on the factors, which are adapted by Broad from Rummler and Brache (1995), individual capability is physical, mental, and emotional capacity, also experience. Necessary knowledge and skills is the training (that's where WDTB comes in) and the learning that is required to perform. Clear performance specifications are procedures, outputs, and standards. Necessary support is resources, priorities, responsibility, authority, and time. Clear consequences can be reinforcement, incentives, or rewards. Prompt feedback is how well performance matches expectations. Note that Managers are primarily responsible for 4 out of the 6 factors.

Student Notes:

### What are the Factors for Effective Performance?

Top 6 Factors	Instructors	Students	Managers
Clear performance specifications	I	S	(M)
Necessary support	I	S	(M)
Clear consequences	I	S	(M)
Prompt feedback	(I)	S	(M)
Individual capability	I	(S)	M
Necessary skills and knowledge	(I)	(S)	M

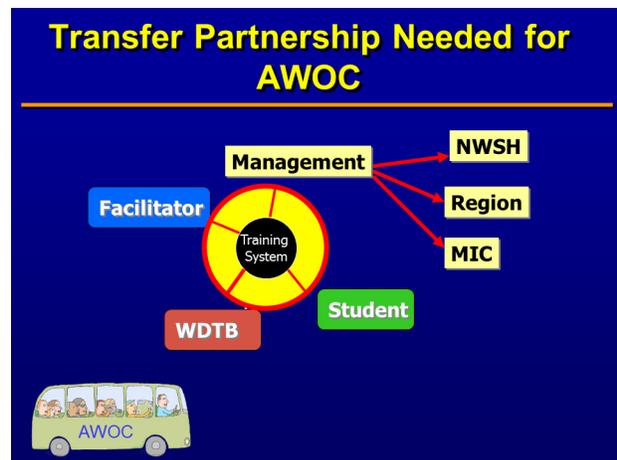
---

---

## 28. Transfer Partnership Needed for AWOC

**Instructor Notes:** All 4 parties in the vehicle must be working together to make the AWOC “bus” ride smoothly. Training is a partnership between all the folks. Initially, the trainee (forecaster or whoever) must recognize a need for new skills. They must have their “hands” out with an open mind set. Perhaps there is a new theory out there on supercell development and some operational guidance that will help recognition and maybe (given the right circumstances) it will lead to improved warning lead times. When folks hear about that guidance, most (but not all) will want to learn about it and find out how to use it. This is the first step in the transfer process, recognition that there is a need. The 2nd step is that the trainer must design and or deliver the learning experiences that will support learning. WDTB provided a flexible learning schedule in AWOC that supported different learning styles, abilities, and times for learning. The 3rd step, and this is most critical part, is that the manager must support the learning and application on the job. The manager in the NOAA’s NWS situation, is not only the SOO and MIC; it’s the all chain of commands above the local forecast office. For the most part, this was demonstrated with AWOC with only a few exceptions.

**Student Notes:**



---

---

## 29. How Can AWOC Work?

**Instructor Notes:** It’s important to keep the learners at the forefront and focus of the training – and make sure the training is performance based. Training can be a risky path unless we have some guidance. Facilitators should be counted on to help students complete the course, including all assignments and simulations. And then, help the students transfer learning to performance by applying the principles to actual warning operations.

**Student Notes:**

**How Can AWOC Work?**

---

- Learner Centered with Good Planning
  - Facilitator meeting regularly with their student to ensure:
    - Realistic expectations are set (based on personal needs and goals)
    - Learning and transfer goals met
  - Frequent monitoring of progress
  - Provide dedicated training shifts!



---

## 30. Who Can Help?

**Instructor Notes:** We do provide a number of options to help alleviate potential problems in executing this course. Take advantage of these mechanisms to make the learning easier and more enjoyable.

**Student Notes:**

**Who Can Help?**

---

- WDTB (Course registration, materials, etc.)
  - 405-325-3190 (Linda Curtis)
- General AWOC questions
  - [awochelp\\_list@wdtb.noaa.gov](mailto:awochelp_list@wdtb.noaa.gov)
- AWOC Core questions
  - [awoccore\\_list@wdtb.noaa.gov](mailto:awoccore_list@wdtb.noaa.gov)
- AWOC Severe questions
  - [awocsevere\\_list@wdtb.noaa.gov](mailto:awocsevere_list@wdtb.noaa.gov)

---

## 31. Sources of Information AWOC Home Page

**Instructor Notes:**

Student Notes:

**Sources of Information  
AWOC Home Page**

- One stop shop
  - Course news
  - Teletraining
    - Schedules
    - Presentations
  - Help

<http://www.wdtb.noaa.gov/courses/awoc/index.html>

**Advanced Warning Operations Course**

**Important Notice:** Enrollment for the FY12 version of the Advanced Warning Operations Course (AWOC) is now open. Enrollment for the AWOC Course will continue through the beginning of FY13 on 11/1/12. The course will continue in early FY13 and will end through September 2013.

Here are some important dates coming up:

- February 20th - March 15th - Enrollment for AWOC Core and Severe Tracks
- April 1st - 15th - AWOC Core and Severe Tracks
- April 1st - September 30th - Core and Severe Tracks assignments for AWOC Core will be accepted until 12:01, but all other courses should be completed.

Here is some other important information:

- Target audience: All WFO meteorologists and hydrologists who use the WFO-BD for decision making and who have not yet completed AWOC-2012. There are no prerequisites for this course.
- Prerequisite for AWOC Core: Completion of AWOC-10 or the original WFO-BD Operations Course as a prerequisite.
- Prerequisite for AWOC Severe Tracks Completion: AWOC-10 or the original WFO-BD Operations Course.
- Course length: 10 days of instruction
  - o Core: 7 days, 11 hours
  - o Severe Tracks: 3 days
- Delivery Method: All training is accessed by on-demand. From the AWOC Learning Center, students can take individual assignments, attend the on-line, and 11:00 - 12:00.

Enroll as a FY12 AWOC student and we have problems accessing course content, please

## 32. Summary

**Instructor Notes:** We are committed to providing a rewarding learning experience for all participants in the AWOC. But, success in terms of how well it will be accepted and applied depends a lot on you. The developers of this Course encourage all members of the stakeholder team to help provide support for learning and application of these very important learning concepts.

Student Notes:

**Summary**

AWOC provides an excellent opportunity for improvement in warning performance

*Success Depends on All of Us!*

## 33. Questions??

**Instructor Notes:** This will be mailed out upon completion of all requirements. Mark Sessing will monitor progress. Questions?

Student Notes:

