



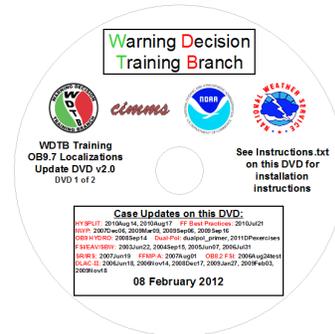
WDTB Dual-Polarization Training News

New WES OB9.7 Localization Update Disc (enclosed)

With the release of the WES OB9.7 Localization Update disc on 24 January 2012, we've discovered an error that breaks the link to the WES Exercises Key webpage, when completing the Dual-Pol WES Exercises. This issue has been fixed, and a new localization update disc is included.

Instructions: The WES OB9.7 Localization Update originally came with 2 discs. We are replacing only disc #1 of the original 2. Please discard the original disc #1 of 2 and replace it with the enclosed disc (dated 08 February 2012 and labeled version 2.0). **Do not** discard the disc #2 of 2!

If you have already run the localization update disc, just simply run the new update disc. If you have not updated the localizations for WES OB9.7, just make sure you update using the localization update disc sent with this mailing.



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New Learning Plan Available for RFC Hydrologists

WDTB, working closely with regional training officers, has implemented a Dual-Pol Operations Course learning plan in the NWS Learn Center designed for RFC Hydrologists. The components of this course are:

Dual-Polarization Radar Operations Course Overview
Dual-Pol Radar Products: Correlation Coefficient
Dual-Pol Radar Products: Differential Reflectivity
Dual-Pol Radar Products: Specific Differential Phase
Dual-Pol Radar Products: Hydrometeor Classification
Dual-Pol Radar Products: Melting Layer
Dual-pol Quantitative Precipitation Estimation (QPE) Products
Dual-Pol Radar Applications: Heavy Rain Detection
Dual-Pol Ops Course WES Exercise - Heavy Rain (ILT)
Dual-Pol Ops Course WES Exercise - WDTB-Approved Locally-Developed (ILT)

Must Complete 1 of 2 Available

WDTB will provide the same customer service support, along with Certificates of Completion for the “Dual-Pol Operations Course for RFC Hydrologists” as for the Dual-Pol Operations Course for WFO staff.



A Summary of Available NWS Dual-Pol Training Learning Plans

The following table provides a snapshot of the Dual-Pol Training NWS Learning Plans, the intended forecasters for these courses, and the expected training completions times. All of this information is the result of WDTB coordination with regional training officers.

Forecaster	Learning Path	When Training is Completed
WFO Forecaster	Dual-Pol Radar Operations Course	Within 1 month after the associated radar is upgraded.
WFO Service Hydrologist	Dual-Pol Radar Operations Course	Within 1 month after the associated radar is upgraded.
CWSU Meteorologist	Dual-Pol Radar Operations Course	Within 1 month after the last radar within the CWSU support area is upgraded.
RFC Hydrologist	Dual-Pol Radar Operations Course for RFC Hydrologists	Within 1 month after the last radar within the RFC support area is upgraded.
RFC HAS	Dual-Pol Radar Operations Course	Within 1 month after the last radar within the RFC support area is upgraded.

Congratulations to the meteorologists at the Islip, NY CWSU, for being the first “Dual-Pol Ready” CWSU in the nation! The entire staff has completed the Dual-Pol Operations Course.

The Role of WES Exercises

For the two Dual-Pol Operations Courses, the specific WES Exercise choices are based on the Dual-Pol Applications modules that are part of the course. For example, the Dual-Pol application that is of interest for RFC Hydrologists is heavy rain detection. Thus an appropriate WES exercise also addresses heavy rain detection.

Here is a summary of the WES Exercise options for the “Dual-Pol Radar Operations Course”, which are based on the specific Applications modules in the course:

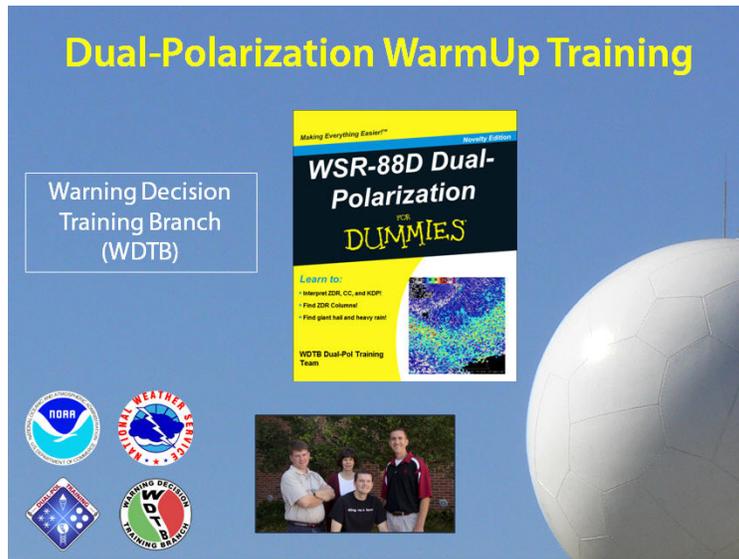
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Must Complete 2 of 6 Available </div>	Dual-Polarization Radar Operations Course Overview
	Dual-Pol Radar Products: Correlation Coefficient
	Dual-Pol Radar Products: Differential Reflectivity
	Dual-Pol Radar Products: Specific Differential Phase
	Dual-Pol Radar Products: Hydrometeor Classification
	Dual-Pol Radar Products: Melting Layer
	Dual-pol Quantitative Precipitation Estimation (QPE) Products
	Dual-Pol Radar Applications: Winter Weather
	Dual-Pol Radar Applications: Hail Detection
	Dual-Pol Radar Applications: Heavy Rain Detection
	Dual-Pol Radar Applications: Tornadic Debris Signatures
	Dual-Pol Radar Applications: ZDR Columns
	Dual-Pol Applications: Non-Precipitation Echoes
	Dual-Pol Ops Course WES Exercise - Winter Weather (ILT)
	Dual-Pol Ops Course WES Exercise - Tornadoes and Hail (ILT)
	Dual-Pol Ops Course WES Exercise - Heavy Rain (ILT)
Dual-Pol Ops Course WES Exercise - Bow Echo (ILT)	
Dual-Pol Ops Course WES Exercise - Non-Precipitation Echoes (ILT)	
Dual-Pol Ops Course WES Exercise - WDTB-Approved Locally-Developed (ILT)	

Here is a summary of the WES Exercise options for the “Dual-Pol Radar Operations Course for RFC Hydrologists”, which are based on the specific Applications module in the course:

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Must Complete 1 of 2 Available </div>	Dual-Polarization Radar Operations Course Overview
	Dual-Pol Radar Products: Correlation Coefficient
	Dual-Pol Radar Products: Differential Reflectivity
	Dual-Pol Radar Products: Specific Differential Phase
	Dual-Pol Radar Products: Hydrometeor Classification
	Dual-Pol Radar Products: Melting Layer
	Dual-pol Quantitative Precipitation Estimation (QPE) Products
	Dual-Pol Radar Applications: Heavy Rain Detection
	Dual-Pol Ops Course WES Exercise - Heavy Rain (ILT)
	Dual-Pol Ops Course WES Exercise - WDTB-Approved Locally-Developed (ILT)

WDTB Dual-Pol Webinars

WDTB continues to offer monthly Webinars to support your transition to Dual-Pol. The **Dual-Pol Warmup Sessions** are delivered the third Wednesday of each month, starting at 2 pm central time. These webinars are targeted for beginners, showing the added value of Dual-Pol base data in context with the legacy base data. They are intended to provide motivation for those who are about to embark on the Dual-Pol Training.



The **Dual-Pol Storm of the Month** webinars are delivered the last Wednesday of each month, starting at noon central time. Each month features a different topic and a different speaker, all demonstrating the use of Dual-Pol in NWS operations.

Each of the live Dual-Pol Storm of the Month webinars are “post-processed” and packaged as “Dual-Pol Best Practices” modules that are available in the NWS Learn Center.

Storm of the Month - Best Practices

Dual-Pol Storm of the Month

Dual-Pol Storm of the Month - Best Practices (2011-10 October 2011) - In this Storm of the Month, we take a look at Hurricane Irene and focus on how dual-pol revealed the tropical characteristics of the hurricane and how, in real-time, a forecaster would have had increased confidence in an EF-2 tornado that hit a coastal city.
[Click here to start this course](#)

Dual-Pol Storm of the Month - Best Practices (2011-11 November 2011) - The Arizona Monsoon: Water & Dust! This year's Arizona monsoon season was particularly active, with multiple high impact dust storms in the Phoenix area, and a significant rain event in Tucson. For this webinar we have our first guest subject matter expert, J.J. Brost the SOO from the Tucson, AZ WFO. He looks at the performance of the dual-pol QPE for the rain event, and the dual-pol base data for one of the Phoenix dust storms.
[Click here to start this course](#)

Dual-Pol Storm of the Month - Best Practices (2011-12 December 2011) - Nowcasting precipitation types during winter weather transitions is often very challenging. Use of the new Dual-Pol products will be presented, such as monitoring changes to the melting layer during these transitions. There will be an emphasis on interpretation of algorithm results, such as HCA, in the context of all of the base data.
[Click here to start this course](#)

See our web site for registration information on specific sessions:
<http://www.wdtb.noaa.gov/courses/dualpol/index.htm>