AWIPS Build 20.2.3 Informational Overview

Sarah Borg Warning Decision Training Division





Duration: 00:00:11 Advance mode: Auto

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Notes:

Slide 2 Course Completion Info Duration: 00:00:20

Duration: 00:00:20 Advance mode: By user



Notes:

Slide 3 Learning Objectives

Duration: 00:00:08 Advance mode: By user

Learning Objectives

After taking this training you will be able to identify some of the more notable AWPS changes in 20.2.3:

- Hazard Services enhancements
- Hydro Hazard Simplification
- IBW changes
- Multi-panel layouts
- · Customized contour capabilities
- · Faster time looping
- Previous, -1, -2 mode runs can be loaded
- Radar: -0.2 degree elevations at KGJX, KFSX, and 0.2 a: KDLH

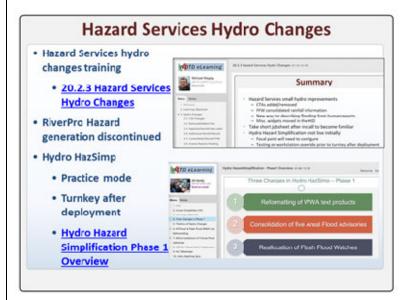
- Satellite- improved data performance, alter bundles
- FFMP Basin Table works
- · Frame count display
- AIR Reference on Products works in GFE, Hydro, MPE perspectives
- Improved time looping options
- Under the hood changes for ITOs and Focal Points

Notes:

The goal of this training is to provide a general awareness of the following new capabilities and recent changes in around 10 minutes.

Slide 4 9 Hazard Services Hydro Changes

Duration: 00:00:40 Advance mode: Auto

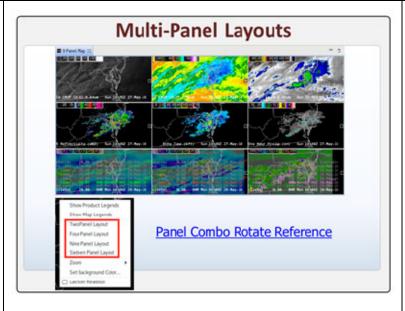


Notes:

Build 20.2.3 brings forth a number of Hazard Services hydro changes. WDTD has released a training module detailing these changes along with a companion jobsheet. Click on this link to view the training. It's important to point out that RiverPro watch, warning, and advisory generation is discontinued in this build. Additionally, Hydro Hazard Simplification also arrives with 20.2.3 and your office can start testing this practice mode prior to the turnkey which will be shortly after the build is deployed. WDTD also has released a training module to aid in your transition. Click on this link to view the training.

Slide 5 Multi-Panel Layouts Duration: 00:00:23

Duration: 00:00:23 Advance mode: Auto

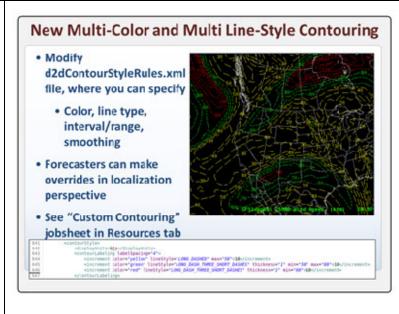


Notes:

With 20.2.3, you now have the option to select a two, nine, and sixteen panel layout in addition to the four panel layout option that existed prior to this build. You can use the panel combo rotate to zoom in on each panel and cycle through them. Click on this Panel Combo Rotate Reference to review how to use it.

Slide 6 New Multi-Color and Multi-Line-Style Contouring

Duration: 00:00:44 Advance mode: Auto



Notes:

AWIPS has a new convention for modifying the d2dContourStyleRules.xml file. You now have more options to customize contouring in D2D. You can now modify color, line type, interval/range, and smoothing, where you can specify a range of value and min/max/increment. The image on this slide highlights the use of custom contouring to show a jet streak, with red contours indicating winds in excess of 90kts. Forecasters can create overrides using the localization perspective. See the jobsheet titled "Custom Contouring" in the resources tab for practice mapping some of the common style rules.

Slide 7 Time Looping Changes Duration: 00:00:16

Advance mode: Auto

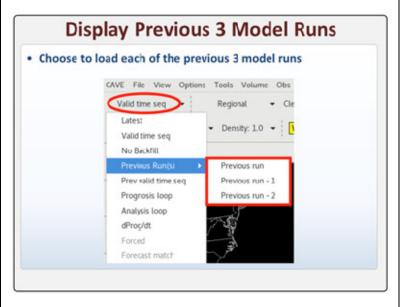


Notes:

20.2.3 comes with faster looping, up to 30 frames per second. Keep in mind that having multiple products with high frame counts looping in the background may put more of a strain on machine performance than in prior builds.

Slide 8 Display Previous 3 Model Runs

Duration: 00:00:24 Advance mode: Auto

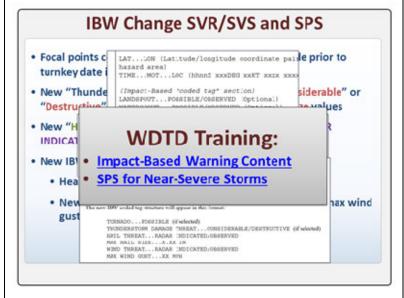


Notes:

With 20.2.3, you now have more control over displaying previous model runs in D2D. From the valid time sequence pulldown menu in the CAVE toolbar you can select the previous run, previous run -1, or previous run -2 and then load a model of choice. Prior to 20.2.3, you only had the option of loading the 1 previous model run before the current.

Slide 9 IBW Change SVR/SVS and SPS

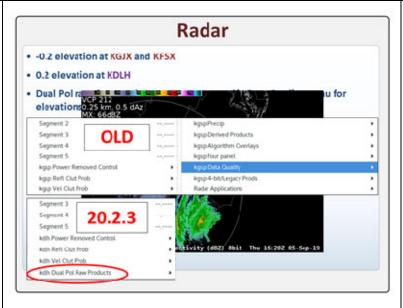
Duration: 00:01:02 Advance mode: Auto



Notes:

There are some significant changes in IBW WarnGen templates in 20.2.3. Focal points will configure files for testing in practice mode prior to the turnkey following full deployment. Some of the highlights of the changes in the SVR and SVS products include new thunderstorm damage threat tags with considerable or destructive tags triggered by windspeed and hail size values. There will be new hail threat and wind threat tags with radar indicated or observed values. IBW tags have also been added to SPS statements with tags for hail size, max wind gust, landspouts, and waterspouts, and the significant weather advisory headline has been removed. WDTD also has two short training modules in the CLC covering these changes: "Impact-Based Warning Content" and "SPS for Near-Severe Storms". For more information on the IBW changes, see the IBW Changes in the Resources tab."

Slide 10 S Radar Duration: 00:00:20 Advance mode: Auto

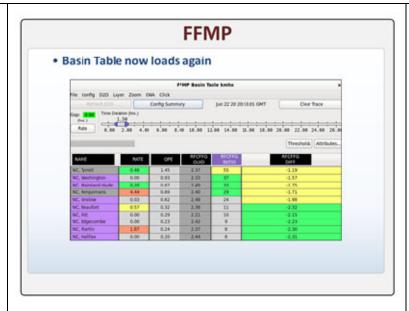


Notes:

In 20.2.3, several more sites have added elevation scans below the standard 0.5 degrees. Additionally, dual pol raw products that were previously not available are now restored in the data quality menu for stations that ingest radar data below 0.5 degrees

Slide 11 [®] FFMP

Duration: 00:00:14 Advance mode: Auto

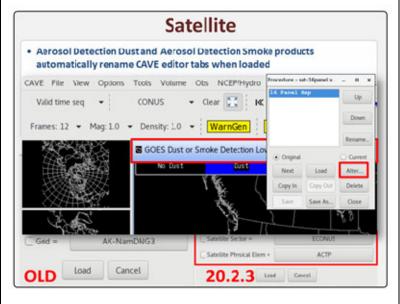


Notes:

FFMP was broken in prior builds, specifically the ability to load the Basin Table. This has been fixed in 20.2.3 and you can now use FFMP again without issues.

Slide 12 Satellite Duration: 00:00:32

Duration: 00:00:32 Advance mode: Auto

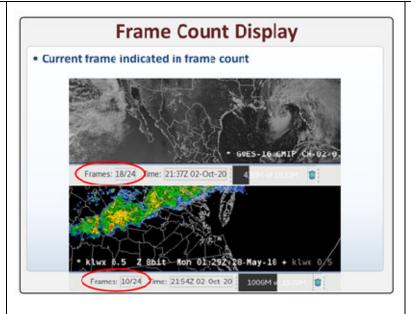


Notes:

There are a few satellite changes in 20.2.3 worth mentioning. The aerosol detection dust and smoke derived products automatically rename the CAVE editor tabs when loaded. In past builds, loading and looping large volumes of satellite data would cause CAVE crashes and freezes. Some under the hood changes have improved performance in this area. Finally, you can now use the alter function in procedures to switch out satellite products just as you've been able to do with radar products.

Slide 13 Frame Count Display Duration: 00:00:10

Duration: 00:00:10
Advance mode: Auto

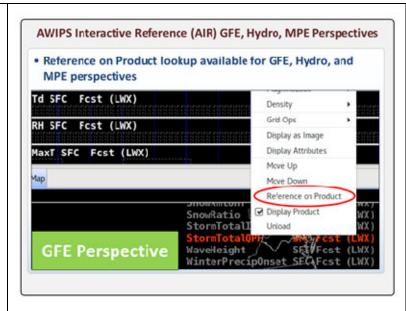


Notes:

In 20.2.3, you can now see the current frame number displayed at the bottom of the map editor window when you cycle through the data.

Slide 14 9 AWIPS Interactive Reference (AIR) GFE, Hydro, MPE Perspectives

Duration: 00:00:28 Advance mode: Auto

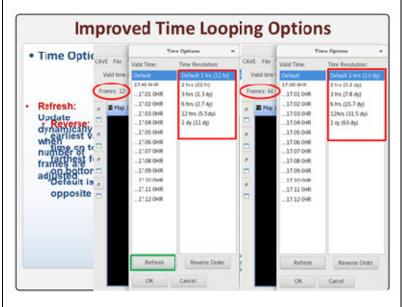


Notes:

In prior builds, you could only use the reference on product right click look up in the D2D perspective. With 20.2.3, you can use the AWIPS Interactive Reference or AIR to access reference and training material from the GFE, Hydro, and MPE perspectives. There are not many references currently registered with the new perspectives, but future references can now start being designed to leverage this.

Slide 15 Improved Time Looping Options

Duration: 00:00:19 Advance mode: Auto



Notes:

There are two extra time looping options available from the Time Options GUI when loading a product. First, you can reverse the order of times by clicking the Reverse button. Second, you can refresh the time resolution when adjusting the frame count by clicking the Refresh button.

Slide 16 9 ITOs and Focal Points

Duration: 00:01:29 Advance mode: Auto

Notes:

There are a relatively large number of enhancements to review in the living release notes. Some of the major changes in this build focal points need to be aware of include: 4 new GOES netcdf products: visible, shortwave IR, water vapor, and longwave IR disseminated by PDA that will replace GOES-15 gini products. There is a fix for BLU alerts to send to Broadcast Message Handling (BMH) and NWRWAVES. Hazard Services and Collaboration now use the same dictionary as GFE and text workstation. There is a new script to clean up old tags for tdwrCollectionLimited. The FFMP table wouldn't launch correctly in one of the recent builds, and a fix has been implemented that prevents the problem. Sites who fixed this by removing ARIs should delete FFMPSourceConfig.xml and bounce EDEX to restore FFMP ARI. There is now a capability to make TDWR radar product requests for all cuts at or below the lowest N cuts. Finally, one of the most important focal point issues in 20.2.3 is that the Hazard Services focal point needs to update site overrides with new python methods during installation in order to enable hydro operations. The Hazard Services focal point should see the 20.2.3 overview for focal points in the CLC.

Slide 17 ® **Summary** Duration: 00:00:48 Advance mode: Auto



0.033 sec

0.033 sec

20.2.3

Backward Speed

✓ Looping

Radar

· More stations b

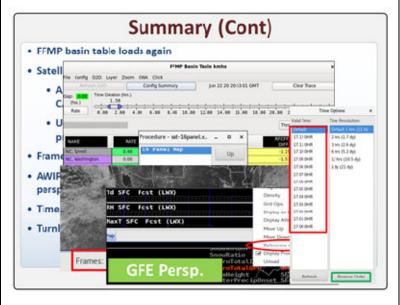
restored

Notes:

To summarize, there are a number of Hazard Services hydro changes in this build. WDTD has a couple of training modules to help with this transition. Click on these 2 links to access that training. With 20.2.3, you now have the option to select a two, nine, and sixteen panel layout. With 20.2.3, you now have more options to customize contours in D2D using the Localization Perspective. You can loop products faster with this build, up to 30 frames per second. You can also display the previous 3 model runs. There are some changes to IBW SVR/SVS and SPS products. More stations have been added to scan below 0.5 degrees and dual pol raw products have been restored.

Slide 18 Summary (Cont)

Duration: 00:00:42 Advance mode: Auto



Notes:

The FFMP basin table loads again. Aerosol dust and smoke products automatically rename the CAVE editor tabs. You can also use the alter button on satellite products in the procedures window. The frame count can now be seen displayed at the bottom of the CAVE window. The AWIPS Interactive Reference or AIR right click option can now be used in all perspectives and not just D2D. The Time Looping Option GUI now includes refresh and reverse options. Don't forget that there will be turnkeys to implement Hydro HazSimp and IBW templates.

Slide 19 [®] VLab & Job Sheets

Duration: 00:00:47 Advance mode: By user



Notes:

You are now done with the AWIPS 20.2.3 Informational Overview. Just enter this address in a browser on vour LX workstation or on the Web and select the AWIPS Build Changes VLab page from the Forecaster References. From there, navigate to the 20.2.3 section where you can access job sheets to practice new applications associated with this build. Alternatively, you can right click on a product in the Product Legend in CAVE and select Reference on Product. This will bring up the AWIPS Interactive Reference search page. Type AWIPS Build Changes in the Keywords search then click Update and you should see the Build Changes Page as the top hit. Let me know if you have any further questions, and good luck with the new 20.2.3 capabilities.