

# AWIPS OB7.2: Final Release Notes

## Section II – Discrepancy Report Fixes in OB7.2 (Discovered in OB7.2)

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## 1.0 D2D/TEXT/OTHER APPLICATIONS

The following Discrepancy Reports (DR) have been fixed in AWIPS OB7.2.

### 1.1 Color Curve/Blinking/Image Combination

### 1.2 Looping/Sampling/Swapping Panes/Zooming

#### **Problem. Sync up Additional Frame Capability (Ref OB7.1 DCS 3276).**

Late changes for this DCS, made due to the code review. Did not get into OB7.2.

This DCS covers implementing additional frames in D-2D.

See <http://www-sdd.fsl.noaa.gov/~fxa/requirements/awips-OB7/OB7.reqs.html> for more information. (DR 17625)

### 1.3 Climate

#### **Problem. Climate F6 product won't run...(Ref. OB7.1.1 DR 18095, OB8.1 DR 18423) (DR 22)**

The f6 product will not run correctly from the command line or the cron. This is due to the fact that, when passing the parameter 0 to the application, it fails when going to build\_f6.

#### **Problem. Handar 555 data isn't processing.**

Handar 555 file doesn't display.

```
Step10 - cd /data/ldad/Processed
```

```
ll -ltr *SNMC*
```

ERROR: NO MATCH. (DR 18212)

#### **Problem. Climate Extreme data updates. (DCS 3375)**

Previously, DCS 3375 was tested on TBW3 (BOX). NCDC extreme climate data file for BOX was downloaded into TBW3. Once the day\_climate\_extreme.sh script was run, the log file: /awips/adapt/climate/tmp/dayClimateExtreme.LOG contained many errors such as:

Duplicate Key violates unique constant "day\_climate\_extreme\_pky"

More than one row returned by a subquery used as an expression.

Furthermore, when the day\_climate\_norm is compared to NCDC data file, the record ties in day\_climate\_norm don't update based on the day\_climate\_extreme data table from NCDC. (DR 18123)

**Problem. Climate is not creating NWS text Products.**

Previously, Climate was not creating NWS text products. All NWS products were blank on all OB7.2 platforms. (DR 18103)

**Problem. CLIMATE: Normals and Extreme values missing.**

The Daily Normals and Extreme values window contains all 9999.99 values. The same thing happens for the Monthly, Seasonal, and Annual Normals and Extreme windows, where all information was missing.

This was fixed. (DR 17845)

**Problem. Typos in 2 new tropical CTAs.**

There was no space between the words "unfastened" and "home" in the Tropical Winds of 50-60 CTA. In addition, one of the lines in the tropical storm winds of 40 to 50 CTA did not word wrap.

This was fixed. (DR 17864)

**Problem. CLIMATE error: invalid AFOS ID.**

All NWS Climate Products as well as CF6 Products get an AFOS ID error so that they cannot be transmitted over the WAN. The products that are created have a 6-letter PIL instead of a 9-letter PIL, which means that the products cannot be transmitted over the WAN because a2a.txt looks for a 9-letter PIL. That is, the product created is CF6RBL instead of SFOCF6RBL.

This was fixed. (DR 17844)

## 1.4 Radar

**Problem. Multiple ULR products can not be requested properly through RPS list**

RPS list editor can be used to add multiple ULR product for different layers. But when sending the updated RPS list, some of the ULR products are removed by RadarServer.

This was fixed. (DR 18333)

**Problem. Error introduced with DCS 3337 into the gridPlaneTable.txt file, causing procedures to fail.**

DCS 3337 inserted new levels into the middle of the gridPlaneTable.txt file instead of adding them to the end. This broke existing procedures in the field.

This was fixed.

**Problem. SyncComms radar.**

The code pulled in cs\_api.h when compiled on linux platform [ref OB7.1 DR17002].

This was fixed. (DR 17763)

**Problem. Complete the OB7.2 fix for "RadarStorage cannot store class 2 TDWR radar data" (Ref OB7.2 DR 17290, OB7.1 DR 17289, OB6 DR 16915).**

The fix in OB7.1 for this problem was not completely duplicated in OB7.2.

This was duplicated. (DR 17553)

Here is a brief description of the problem.

If a site does not have a class 1 TDWR radar, RadarStorage will not store any of the TDWR radar for that site. RadarStorage NEEDS to see a class1 TDWR in the radarsInUse.txt before it will store any data; otherwise, it will fail to bring in the radarDataKey.

If the data key is not found in the list of data keys generated by RadarStorage, the log file will have the following message:

"Unable to read DataAccessKey xxx from dictionary"

This appears below the line that shows the product being received, such as:

"Product /data/fxa/radar/raw/SDUS33KJKL.23000008.537 was received via the SBN"

If it worked, then you would see a line such as:

"Product was stored as  
/data/fxa/radar/tjua/SRM/elev1\_5/res1/level16/20060122\_2359"

**Problem. ORPGReqMgr fails due to byte-ordering problem.**

The fix for OB7.1 DR 17023 needs to be merged into OB7.2. This was accomplished. (DR 17551)

**Problem. Unable to store TDWR data.**

There was a need to remove the check for radar ID greater than 999. This caused the TDWR data to be put into the bad directory because the radar IDs are all greater than 999. This was accomplished. (DR 17059)

**Problem. Duplicate the OB7.1 changes for Plan View Display of VWP in OB7.2 (Ref OB7.1 DCS 3251).**

Add CONUS, Regional, State scale mosaic display of VWP winds at various altitudes and provide displays similar to profiler data. **This was accomplished.** (DR 17429)

See <http://www-sdd.fsl.noaa.gov/~fxa/requirements/awips-OB7/OB7.reqs.html> for more information.

**Problem. Duplicate the OB7.1 changes for All Tilts Navigation improvements in OB7.2. (Ref OB7.1 DCS 3283)**

All Tilts Navigation improvements including:

- Clean up product legend.

- Improved keyboard functionality.
- Relative space/time position of current slice overlay display was fixed.

The changes for DCS 3283 for OB7.1 were duplicated in OB7.2. (DR 17420)

See <http://www-sdd.fsl.noaa.gov/~fxa/requirements/awips-OB7/OB7.reqs.html> for more information.

**Problem. Duplicate the OB7.1 Snowfall Accumulation Products changes in OB7.2. (Ref OB7.1 DCS 3275)**

The changes for DCS 3275 for OB7.1 was duplicated in OB7.2. (DR 17418)

This DCS covers implementing the Snowfall Accumulation Product.

See <http://www-sdd.fsl.noaa.gov/~fxa/requirements/awips-OB7/OB7.reqs.html> for more information.

## 1.5 Text Alarms/Warnings

### 1.6 Satellite

**Problem. Satellite menu enhancements.**

Two changes were made to the The Derived Products -> SSM/I Point Data:

- Removed the title "SSM/I Data" line from xxxxSatDatamenu.txt.
- Removed the "SSM/I" from each entry in satProductButtons.txt.

Also, the SSM/I SST will be presented in deg C, and "Derived Products" was changed to "Derived Products Plots." (DR 17631)

### 1.7 GFE

**Problem. GFS40 or AK-GFS is not listed on Weather Element Browser Sources list.**

The GFS40 or AK-GFS model data is not listed on Weather Element Browser Source list of GFE GUI. Unable to display or copy the GFS40 grid on TBW4 test bed. (DR 18396)

**Problem. Numerous typos in the new tropical CTAs. (DR 18434)**

There were numerous issues with the new tropical CTAs for the inland hazards. The presence of headlines in the middle of a product will cause dissemination issues with the NPW. All CTA headlines need to have "..." removed and changed into sentences.

**Problem. Change needed for automated testing from lx.**

While doing comparisons, Mark Mathewson found a difference between the OB7.2 GFE in PVCS and the Global Systems Division's (GSD) CVS. This change in GSD's CVS is part of the official build, but the changes were not included when the sources were transferred to Raytheon.

A few more changes were made in OB7.2 before giving it to the NWS after the PVCS code was sent to Raytheon. The change was authorized and made it into the build executables delivered by GSD, but not into the PVCS. Because Raytheon is building OB7.2 from PVCS, it probably should have this change. This particular item lets the automated tests work from an lx box. Without this fix, Raytheon needs to run the automated tests on the server box. This was accomplished. **(DR 18124)**

**Problem. Unable to access VTEC active table.**

This problem was occurring because the /awips/GFESuite/primary/data/vtec/active/tblock file is owned by root. This file should have been owned by ifps. On nhda (OB7.2) and tbdw (OB7.1), the file is owned by ifps.

This was fixed. **(DR 18080)**

**Problem. Unable to find reference data [(area1,P=0,A=0)].**

Previously, when running the formatter the following products were not able to reference data [(area1,P=0,A=0)].

CCF, FWM, MVF PFM and SFT.

This was fixed. **(DR 18158)**

**Problem. Unable to read VTEC active table.**

The Hazard\_WSW product failed when Run formatter executed.

This was fixed. **(DR 18083)**

**Problem. GFE: The statement of "Using Utility Version of convertFttoM" is not displayed.**

Previously, the statement of "Using Version of converFttoM" was not displayed. This has been fixed. **(DR 18081)**

**Problem. NPW and CWF templates have issue in allowedHazard section.**

In the NPW and CWF templates, the allowedHazards sections allow a TR.A and an HU.W in the same grid point at the same time. This is invalid. And with the WFOs being responsible for creation of marine zone tropical hazards and coastal tropical hazards coming from TPC, this overlap could accidentally occur. The MakeHazard tool shows both the marine and public zones, so a land zone could easily be inadvertently added (e.g., with small, complex marine areas such as Charleston harbor). Although this would not affect either of the products listed, the overlap would be seen on the NDFD in the hazard grid, which will be posted by the time of the 7.2 release.

This was fixed. **(DR 17894)**

## 1.8 Volume Browser/Grid Products

### **Problem. Gridded MOS data files at 2GB and need to be clipped.**

Gridded MOS was added to the AWIPS model data suite for OB7.1. These grids are created over the 5km NDFD grid, which is high resolution for model grids. Examination of the netcdf files once all the data are stored for a particular model run indicated the size of the files is around 2GB. This is a large amount for a gridded data set; most sets are substantially smaller. Although the file size hasn't produced any known problems, the size could eventually become a problem as more data sets are added to the gridded model suite. In addition, the size could affect performance, although this has not been demonstrated and may not be likely to occur until testing takes place at a field site. It is highly recommended that these grids be clipped to the regional scale within AWIPS; this should keep the netcdf file size manageable.

This was fixed. (DR 17879)

### **Problem. Need to add correct header info to acquire RTMA grids.**

There are two parts to this DR, but the same files and data set are affected. These changes affect the correct acquisition of the Real Time Mesoscale Analysis (RTMA) Grids for OB7.2. Unlike other OB7.2 grids, this information was not clearly known during initial file check-in. Until recently, there were still some questions about one of the grids (GOES ECA). These issues have been resolved and are now accounted for in the configuration files.

- *First problem.* During SwIT forecaster testing, all RTMA grids except the GOES ECA were activated over the SBN. However, the WMO patterns in `acq_patterns.template` and `acq_categories.txt` did not account for the RTMA grids. Therefore, the acquisition server discarded them and they could not be processed by the decoder.
- *Second problem.* GOES ECA RTMA grid changed the CCCC portion of the header from KWBR to KNES because the grid will be produced by NESDIS instead of NCEP.

(This change will cover RA-52 with [RC-9913], which will change the WMO header for sky cover from XXXX##KWBR to XXXX##KNES.)

This was fixed. (DR 17876)

### **Problem. GW: Wind gusts barbs do not plot on time series when wind direction = 360 degrees.**

Previously, when time series plots of wind gusts were displayed from the Volume Browser, there was a blank space and no barb plotted when the wind direction was exactly 360 degrees. This was seen for METARs and GFS LAMP point data and could be expected to affect LDAD plots as well. This has been fixed. (DR 17732)

### **Problem. Fix the link for "Volume Browser/Help Menu/Contents Menu".**

The link for "Volume Browser/Help Menu/Contents Menu" was fixed. (DR 17679)

**Problem. gridImageStyle.rules needs minor change of values versus blanks.**

In gridImageStyle.rules, a couple of fields were undefined for the PMSLsprd variable and this was causing the processStyleInfo routine to report some problems. While no problems were reported with SEC development, the problem should be fixed to head off any potential operational problems in the future.

This is fixed. (DR 17678)

**Problem. lx2-napo: gridDepictKeys.txt missing entries for GFS bufr sounding.**

Previously, lx2-napo: localization -grid did not generate correct entries for GFS Bufr Sounding in file: gridDepictKeys.txt. (DR 17643)

**Problem. GFSLAMP: Obstruction to Vision not depicted in Station Plot.**

At the time of development, the depiction of the GFSLAMP obstruction to vision guidance was not a known requirement. During testing it was noted that this guidance is not depicted, while it is depicted for GFS MOS.

This was fixed. (DR 17552)

**Problem. OPC/TAFB grids should display in feet instead of meters.**

During Forecaster Testing/PIT, a forecaster asked whether these grids should display in feet instead of meters. Consulted the data supplier at OPC, which confirmed that the grids are sent in meters but should be displayed as feet in AWIPS D-2D. This was accomplished. (DR 17638)

**Problem. RF 7.2 DHM does not create D2D grids.**

When running NWSRFS for an area configured to use DHM and create D-2D grids, the D-2D grids were not created.

This was fixed. (DR 17634)

**Problem. ASM/SEC GFS LAMP grid and point sources should be named differently on the Volume Browser.**

It was discovered during Forecaster Testing on NHDA that there are grid and BUFR (point) data sources. However, both are labeled as GFSLamp and can be selected at the same time within the Volume Browser. This could be confusing to a forecaster, especially if the fields area is cleared but the sources are still selected.

This was fixed. (DR 17619)

**Problem. No Inventory for radar cross sections from Volume Browser.**

Previously, during OB7.2 PIT testing, that all attempts to display radar cross-sections via the Volume Browser were met with No Inventory failure.

This was fixed. (DR 17614)

**Problem. Suppress blank section in VB grid menu.**

After 11 DHM grids were added to gridSourceTable.template, a blank section (11 rows) in Volume Browser grid menu (scale 4) was found when map scale is 4, i.e., State(s) or RFC.

This was fixed. (DR 17590)

**Problem. Volume Browser “unwantingly” lists Model Terrain field when selecting two or more sig wave grids.**

There were three new OPC/TAFB grids. Previously, selecting one of the grids at the North American scale from the Volume Browser (OPCWave-NE-PAC) allowed the user to select Sig Wave Hgt field without problems. However, when the user then selected a second from the grid source (OPCWave-TE-PAC), the Model Terrain field appeared in the Fields area of the Volume Browser. The grids were automatically selected.

This was fixed. (DR 17524)

**Problem. Incorrect rounding function used in Grib2Decoder file for SREF.**

In Grib2Handler.C, there is a correction for potential rounding errors when determining a probability threshold value. Unfortunately, the ceil function was used instead of the floor function. Development testing did not indicate a problem with this. However, using O2 optimization instead of -g option in the compiler apparently caused some difference. When O2 was turned on and the Grib2Decoder was run against the Short Range Ensemble Forecast (SREF) products (ref DCS3330), the effect was to round up several threshold probability values. Therefore, they didn't match the checks in order to transform the grib2 parameter into one recognized for SREF.

This was fixed. (DR 17521)

**Problem. Duplicate the OB7.1 changes for the RSA merge in OB7.2 (Ref OB7.1 DCS 3240).**

Changes checked into OB7.1 for the RSA merge were missing in OB7.2. This was accomplished. (DR 17417)

## 1.12 AVNFPS

**Problem. TafGen to use different thresholds for GFSLAMP.**

Probabilistic values in GFSLAMP and MOS are not comparable. Therefore, using the same thresholds in an algorithm to decide precipitation or thunderstorms is not appropriate. So TafGen was made to use different thresholds for GFSLAMP. (DR 18085)

**Problem. Phenomenon in the vicinity of the airport should be reported in the METAR Viewer.**

Weather phenomenon prefixed with VC is ignored in the METAR viewer.

This was fixed. (DR 17969)

**Problem. TafGen unable to combine identical forecast groups.**

Too often, the software to transform guidance into TAF format produced groups consisting of one hour in duration, particularly when precipitation was forecasted.

This was fixed. (DR 17968)

**Problem. Precip Intensity is incorrectly coded for GFSLAMP.**

Too often, the software to transform guidance into TAF format produced precipitation of moderate intensity when observations were light intensity.

This was fixed. (DR 17967)

**Problem. Backup files should not be created without WMO Header Information.**

Forecasters were able to successfully save work product files without the WMO header information. This caused a problem when restoring the work back to the editor, as code that reads in the file expects the header information to be there.

This was fixed. (DR 17720)

**Problem. Variable wind not coded correctly in guidance.**

Guidance TAFs sometimes had winds higher than the allowable levels allowed by NWSI 10-813 chapter.

This was fixed. (DR 17640)

**Problem. Fix EtaPlot.py to be consistent with AvnFPS3.2 baseline.**

Changes to EtaPlot.py in AvnFPS3.2 workset were not conveyed to AvnFPS3.3 workset as discovered by audit. This was fixed. (DR 17639)

**Problem. Titles for Wind Rose graphic need to be clearer.**

By combining two or more hours, the title of the Wind Rose graphic can be confusing. For example:

KABE Jun 23-01Z

A change was made to the following format:

KABE Jun 23Z-01Z

(DR 17617).

**Problem. Update button for TAF and TWEB site editors.**

Previously, the GUI did not work. Attribute fields for a TAF or TWEB route were unchanged once a new TAF site is entered and the update button is pressed.

This was fixed. (DR 17616)



CRS product. Further tests showed that any headline before the lat lon line will result in the lat lon information being added in the CRS product by NWRWAVES.

This was fixed. **(DR 18281)**

## **1.17 WarnGen**

### **Problem. "... " missing at the end of lines.**

"..." should be appended at the end of county listings and pathcast listing for TOR/SVR/FFW/SVS/.../ warning when there are multiple counties/cities listed. NWSI 10-511 indicates that warnings should have a "..." at the end of each line. The "..." in the corresponding CRS products becomes a ",", which allows the CRS Voice to take a pause and not to produce a run-on sentence.

In addition to the specified Product types (TOR/SVR/FFW/SVS), other product types also need to be checked against the problem. This was accomplished. **(DR 18292)**

### **Problem. WarnGen TOR product - pathcast - "is will be" & "are will be" error.**

A wording problem occurred in the Tornado warning. "The Tornado 'is will be' near" and "the tornado producing storms 'are will be'" are found in the pathcast when creating a Tornado warning.

Because of the wording problem, forecasters would need extra time for forecasters to issue tornado warning.

This was fixed. **(DR 18291)**

### **Problem. EWW WarnGen template file should not be installed at all sites.**

In OB7.2, the Extreme Wind Warning (EWW) is only going to be issued at a select number of sites. Therefore, the template file should only be installed at those sites that will issue EWW, so that the other sites do not accidentally issue that type of product. The sites that should get the template file are ABQ, AKQ, ALY, AMA, BMX, BOX, BRO, CAE, CAR, CHS, CRP, EPZ, EWX, FFC, FWD, GSP, GYX, HGX, HUN, ILM, JAN, JAX, KEY, LCH, LIX, LUB, LWX, LZK, MAF, MEG, MFL, MHX, MLB, MOB, MRX, OHX, OKX, OUN, PHI, RAH, RNK, SJT, SJU, SHV, TAE, TBW, and TSA.

This was accomplished. **(DR 18288)**

**Problem. VTEC (WarnGen) not incrementing correctly after New Year reset (Ref OB6 DR 16888, OB7.1 DR 16892).**

On January 1, the VTEC Hazard counter resets to .0000 for all WarnGen products. However, OB6 beta sites had a problem with the counter not incrementing after the first hazard is created. The counter was stuck on .0001.

This was fixed. (DR 17603)

**Problem. QC (WarnGen) will fail to detect bad immediate cause code in FFW cancellation.**

Previously, check-in for DR17798 disabled checking the immediate cause code against the immediate cause language for the case of canceling or expiring a Flash Flood warning.

This was fixed. (DR 18177)

**Problem. Areal Flood Advisory follow-up will add mistakenly adjacent CATs.**

On the Areal Flood Advisory Product, if "arroyo and small stream" is selected and then other CATs' "ice jam" and "urban flooding" are selected and while creating the follow-up, adjacent CATs will be selected automatically such as "ice jam and rain" and "rural flooding/small streams."

This error only happened when "arroyo and small stream" were selected, which only appears on the Areal Flood Advisory. This has been fixed. (DR 18090)

**Problem. Typo on CAT "Urban Flooding".**

On all Areal Flood Products when CAT "Urban Flooding" is selected, the text reads: "UNDERPA SSES" instead of "UNDERPASSES". This has been fixed. (DR 18089)

**Problem. WarnGen's at the same time on same workstation.**

During the forecasters testing, there were 2 WarnGens on the same workstation, but 2 different screens. This happened where WarnGen jumped from an ETN of 0040 to 0063 (should have been 0041). The WarnGen work file had this, but nothing could be found in the textdb. Once the 2 WarnGens were closed and restarted, the correct ETN was generated on the next SVR. [Sounds as though something odd happened with WarnGen's caching.] This has been fixed. (DR 17672)

**Problem. Remove WarnGen pre-install script (Ref OB6 DR 16904).**

D-2D/src/extensions/warnGen/ob6-wgn-preinstall.csh was removed from the OB7.2 workset. (DR 17604)

## 1.18 Guardian

**Problem. Move conflicts with sample text (Ref OB8.1 DR 18294).**

To move the Guardian main GUI, you right-click and drag it, but if you do this over one of the Text Sections or Monitor Buttons, you get the sample text as well (but it does not move). The sample text should be disabled when moving the main GUI. This was accomplished. (DR 18279)

**Problem. Guardian: sound files cannot be playing simultaneously.**

Currently, Guardian uses the line command “play” to play a sound file. Unfortunately, this command cannot play more than one sound file at a time. If Guardian is configured to respond with a sound file for more than one “situation,” the played sound is erratic and lasts longer than it should. If the user tries to turn the sound off as it is playing, it will not stop immediately when the mouse button is clicked; it lasts longer (depending on how long the file has been looped and how long the various sound files are). This has been fixed. (DR 18218)

**Problem. Guardian logging to wrong display.**

Previously, it was found on lx4-tbw3 that Guardian was logging in the wrong display directory. Guardian was running on the middle screen (:0.0) and \$DISPLAY=:0.0), but logging to /data/logs/fxa/display/:0.1/20061027/ and there was no Guardian Wish Server log in /data/logs/fxa/display/:0.0/20061027/. (DR 18169)

**Problem. Guardian layout configuration error.**

Previously, when Guardian was launched on (for example) screen :0.0 and then switched to screen :0.1, the user could not edit the layout in the configuration GUI. An error box is given when these edits are attempted. (DR 18167)

**Problem. Guardian Configuration GUI does not come to foreground.**

Previously, when the Guardian logo is clicked with mouse Button One the Guardian Configuration GUI properly launches and comes to the foreground. If other applications such as D2D are launched over the Config GUI, clicking on the Guardian logo will not bring the Config GUI to the foreground. (DR 18166)

**Problem. Comment in scour.conf is wrong.**

The proper edit was made for DR 17620, but the comment was not changed. 17620 changed scour to remove logs that are more than two days old and the active line was correctly changed, but the comment for that line was not.

This was fixed. (DR 18146)

**Problem. Guardian does not allow audio acknowledgements.**

Guardian does not allow the audio to be acknowledged. When an audio file is played, the user cannot click on Guardian to stop the sound. This has been fixed. (DR 18142)

**Problem. Guardian does not produce a system beep.**

Guardian does not produce a system beep when configured to do so. This has been fixed. (DR 18141)

**Problem. Guardian does not recognize the audio duration configuration.**

Previously, Guardian did not recognize the audio duration configuration. If the audio duration is

set to 15, 30, 'perpetual,' etc. and the sound file is short (say, 5 seconds), the sound file is only played once, not looped. (DR 18140)

**Problem. Guardian restarts when sent an invalid priority.**

Previously, it was found that Guardian would restart when it was sent an invalid priority. Guardian has six priorities (0-5). If a message is sent with a priority other than (0-5), Guardian will restart. (DR 18139)

**Problem. Guardian does not auto-start on XT machines.**

Previously, the guardian auto-start script did not allow the XT machines to auto start. (DR 17954)

**Problem. System error box color for colorblind users.**

Although Guardian provides a high degree of user control of colors applied to message responses, the error box that represents internal Guardian errors is hardcoded to the traffic light color scheme (green-yellow-red), which can be difficult for users with colorblindness to use. The idea is to change the colors used to those associated with the GDN\_ADMIN source key; this would be user controlled just like any other message. This was accomplished. (DR 17943)

**Problem. Guardian does not auto-start for new AWIPS users.**

Guardian auto-starts for old AWIPS users, but not for new AWIPS users. The OB7.2 install correctly installs the ~/user/.kde/Autostart/AWIPS-autostart.sh script, but when a new AWIPS user is added to the system the AWIPS-autostart.sh script is not updated. The setupAwipsUser.sh script needs to be updated to install this file in the new users home directory. This was accomplished. (DR 18096)

**Problem. Guardian Monitors lose info when screen is changed.**

When the user tells Guardian to switch screens, the monitor buttons revert to their initialization status – with no text and the default color (gray). This issue is similar to DR 17829, but apparently the fix for 17829 did not get tested for a screen switch.

This was fixed. (DR 17920)

**Problem. Pop-up acknowledge confirmation window does not allow scrolling in popup.**

When the user attempts to acknowledge all pop-up messages, the confirmation window appears. When this happens, the pop-up window does not allow scrolling to view messages. The pop-up window can take focus, but the scrolling seems to be disabled.

This was fixed. (DR 17919)

**Problem. Minimized pop-up does not get raised for new pop-up message.**

If the user minimizes the Guardian pop-up window, subsequent pop-up message sign, Guardian does not get seen because the pop-up window remains minimized.

This was fixed. (DR 17918)

**Problem. Guardian redraw clears Monitor Buttons.**

When the main Guardian GUI gets redrawn (for example, when a Monitor is omitted/included or when the Text Section Layout is changed), the Monitor Buttons get cleared (as do the Text Sections). The Monitor Buttons should probably keep their most recent status. This was considered major because of the temporary loss of Monitor information, which can affect warning decisions.

This was fixed. (DR 17829)

**Problem. Guardian messageBox titles.**

Need to make sure all tk\_messageBox messages from Guardian have reference to Guardian in the Window Title bar. This was accomplished. (DR 17828)

**Problem. Guardian Message Log width Guardian's Message.**

Logs can sometimes be too wide – falling off the right edge of the screen.

This was fixed to ensure the Message Log window approximates the Text Line width. (DR 17707)

**Problem. Guardian main GUI start position.**

The Guardian Main GUI appears at the top of the screen. Feedback from testing suggests the main GUI is getting in the way of other window bars, so Guardian should probably appear at the bottom of the screen -- where the old D-2D text message lines are. This was accomplished. (DR 17662)

**Problem. Guardian start-up screen.**

Unable to auto-start Guardian on an XT after the first auto-start on an XT.

This was fixed. (DR 17661)

**Problem. Guardian message windows on wrong screen.**

Some Guardian message windows appear on the wrong screen. All Guardian user messages are supposed to pop up on the screen with the Main GUI, but some (related to pop-up acknowledgements) do not.

This was fixed. (DR 17660)

**Problem. Guardian Pop-up handling.**

Guardian needs to make sure the behavior of its pop-ups is more like the behavior of the old red-banners: 1) when acknowledging all messages; and 2) when acknowledging one message. This was accomplished. (DR 17659)

**Problem. Guardian SAFESEAS and SNOW config.**

The config for SNOW and SAFESEAS in Guardian was set to custom, but they are delivered by default, so they need to be defined as such. If they remain custom, they will be deletable by the users. After being changed to delivered, they will not be deletable.

This was fixed. (DR 17597)

**Problem. SSbutton.xbm is needed in /awips/fxa/data by Guardian.**

SSbutton.xbm is delivered in /awips/fxa/data/safeseas. Guardian expects this file to be in /awips/fxa/data. So the SSbutton file should be published and stored in /awips/fxa/data. This was accomplished. (DR 17518)

**Problem. AutoStart.**

The Guardian application must be started when a user logs in and starts the KDE desktop. A script has been prepared to do this (.D-2D/src/guardian/GuardianAutoStart.sh), but it needs to be incorporated into the user .kde directory, where there exists an Autostart/AWIPS\_autostart.sh script. A Guardian entry must be provided in that AWIPS script. Guardian must run on any lx or xt machine – basically any non-server machine that has one to three screens attached to it.

Guardian must also run for any and all AWIPS users when they log on to such a machine. This was accomplished. (DR 17365)

## 1.19 SNOW

**Problem. Bad data from table to trend sets.**

Previously, the SNOW table had correct data, but it was sending incorrect data to the trend sets. This was manifesting itself in a blank "present weather" trend pop-up, the "not available" condition having lines going off the page. (DR 18063)

**Problem. Monitor not responding to certain thresholds.**

SNOW's snowflake button (in Guardian) will not respond to changes in snow depth and wind chill. Problem observed on NHDA.

This was fixed. (DR 18044)

**Problem. Bad wind chills.**

During CONOPS testing, it was reported that SNOW was showing errant wind chill values. Appears to be a units issue (values undergo several Celsius/Kelvin/Fahrenheit conversions).

This was fixed. (DR 17965)

**Problem. Could not clear table.**

After using the SNOW threshold config GUI, an error pops up saying that "#BWidget# frame isn't a top-level file name." Subsequently, the SNOW table cannot be cleared.

This was fixed. (DR 17903)

**Problem. Color config problems for certain variables.**

The SNOW table was having color configuration problems with variables that rank data lower to higher. The ranking is fine, but the colors are being reversed in such a way that "reds" are showing up where "greens" should be. The configuration GUI also has problems selecting the thresholds for those variables (it jumps from one extreme boundary to another). (DR 17848)

**Problem. The SNOW Zone/County Table did not pop up when loading SNOW bundle.**

The SNOW Zone/County Table should pop up when loading SNOW bundle by clicking on "Obs," which is on the top pane of D2D display and clicking on "SNOW." This was accomplished. (DR 17838)

**Problem. Install SNOW localization problems.**

Previously, the files required for the localization process were missing, causing the localization process to abort.

Message from Installation output script log:

```
*****  
*Error from localization script createSNOWfiles.csh:  
*The SNOW_default.txt file is missing from directory  
* /awips/fxa/data/safeseas//display_thresholds  
*Exiting without completing localization.
```

(DR 17780)

**Problem. Area config GUI not changing files.**

Previously, the SNOW Monitor Area Config GUI was not modifying the /data/fxa/workFiles/snow/MA\_setup.dat file. (DR 17657)

**Problem. Change Max Wind Speed to Peak Wind.**

PIT forecasters suggested that the Max Wind Speed parameter (as it is known in SNOW and other parts of AWIPS) should be changed to Peak Wind (same parameter, but a more familiar name in the field). This was accomplished. (DR 17657)

**Problem. Cosmetic problems with config GUI buttons.**

When the SNOW display configuration GUI is loaded, the up/down arrows on the bottom left are shrunken (they don't look like their counterparts on the monitor thresholds GUI). Also, the control buttons at the bottom of the display GUI are shrunken, while they are raised on the thresholds GUI. These issues do not affect the functionality, but we want our interfaces to be consistent. This DR is a mirror image of SAFESEAS DR 17554, with the same fixes. This was accomplished. (DR 17555)

**Problem. Display config table not popping up.**

The SNOW display configuration GUI, which is launched from the SNOW table, is not coming up, due to an error in the products (Blizzard, Freezing Precip, Heavy Snow Warning) list.

This was fixed. (DR 17534)

**Problem. Trend Sets not working for products.**

Previously, the SNOW trend sets for products were now working properly (they are improperly getting trend sets from the SAFESEAS code they share, showing SAFESEAS-related data). (DR 17527)

**Problem. Seg fault during localization when processing SNOW thresholds.**

Previously, Seg fault occurred during WFOA localization when merging

```
SNOW monitor thresholds -  
Merging SNOW regional setup files ...  
regional setup merge is successfully done!  
Merging SNOW monitor thresholds...  
/awips/fxa/data/localization/scripts/mergeSNOWcustomizedFiles.sh: line 111: 17037  
Segmentation fault $mergeBinFile  
Monitor threshold merge failed!  
SNOW localization steps completed. (DR 17513)
```

**Problem. SNOW shutdown procedures.**

When SNOW is shut down (using the stop script), it should send a signal to Guardian that turns its icon white. Then, when following procedures to turn it off permanently, the start script should not turn the processor back on. This was accomplished. (DR 17726)

**1.20 FFMP****Problem. FFMP doesn't display current data. (DR 18206)**

FFMP did not display current data on TBDW and TBW4. (DR 18206)

**Problem. FFMP: Group Identifier should not be available for All Small Basin display.**

When a user selected the "All small basins" option, the button Group Identifier showed as "XXXX". He clicked on a couple of basin IDs, then selected the parent area button, which read "Group XXXX", to get back to the previous level. This produced a tcl/tk error. This was purely a display issue for FFMP. (DR 18399)

**Problem. Guardian FF popup should list CWA (FFMP-3242-OB7.2-330-4\_V2, #5,7,8)**

Test steps 5, 7, and 8 of FFMP-3242-OB7.2-330-4\_V2 fail. The CWA should be included on the FF popup from Guardian. (DR 18269)

**Problem. Space after CWA in FFMPradarToCWA.txt file causes empty check box on FFTI.**

If there is a space after the radarname/CWA entry in the /data/fxa/tstorm/FFMPradarToCWA.txt file the FFTIWish GUI will show a button for the CWA but no label. This was fixed. (DR 18305)

**Problem. FFTIgui.tcl won't launch on TBW3.**

An error occurred on TBW3 running OB7.2 baseline test case FFMP-3242-OB7.2-330-4\_V2, step 6: The FFTI GUI did not launch from the Guardian FF button. This was fixed. (DR 18210)

**Problem. FFMP not working.**

FFMP would not load on TBDW. FFMP localization failed for kdax radar. This problem prevented testing DCS's 3241, 3242, 3243 on TBDW. (DR 18121)

**Problem. FFMP monitor data type: grid.**

For DCS 3242 and 3247, FFMP was augmented to provide better service backup capabilities and to work with Guardian. A small piece of this work was anticipating gridded data ingest "way back when," but this task was pushed to OB8.2. So, the small change, which provided the option of monitoring gridded data, needs to be backed out. This is basically just hiding a tcl/tk widget. (DR 17978)

**Problem. Trend launched from D2D.**

In OB6, when the Basin Trace functionality was introduced, the user provided a setting to control how a D-2D click behaved – set to upstream (trace), downstream (trace), up/down (trace), or trend. The trend option does not seem to be working in OB7.2. Further investigation revealed that this problem only occurs when an HUC layer is chosen as the aggregate and also has a few other symptoms, like no county label and crash for points outside the domain. This was fixed. (DR 17790)

**Problem. FFMP small basin bcd map file name.**

When FFMP's localization was changed for OB7.2, a test bcd file name was used. This test name was not reverted back to the operational name in a localization script. It should be changed back. If not, the user will not see the small basin map when they use FFMP. This was accomplished. (DR 17784)

**Problem. Maintain Layer Zoom: No un-zoom.**

When Maintain Layer is on in the FFMP Basin Table and the user zooms in on an entity using the BasinTable, the basin table does not provide a zoom-out option, and it should. This was

fixed. (DR 17782)

**Problem. FFMP FFG strange behavior.**

FFMP display fails to load if any of the standard 3 FFG times are missing data, no matter what the various other settings are and no matter whether FFMP could proceed without the FFG data. This is not as designed and may be a result of recent code changes in FFMP. A proper fix has yet to be determined, but this definitely should be in OB7.2. In addition, need to ensure that a re-rank re-fetches data from memory (re-applying the filter each time). Currently, the data that get past the filter the first time will be the data used for reranking until a data refresh happens. This could very well explain the strange FFG behavior. (DR 17598)

## 1.21 SAFESEAS

**Problem. SAFESEAS: MAROB missed in table.**

A rare MAROB was detected by SAFESEAS on NHDA and displayed in the SAFESEAS D-2D map, but it was not found in the table. This was fixed. (DR 18064)

**Problem. Thresholds GUI zone selection bug.**

If you use one of the SAFESEAS threshold GUIs (monitor or display) to select a zone/county, that area's thresholds stay in the "action row" even if a new zone is selected. This could lead to unintended threshold settings. This has been fixed. (DR 17994)

**Problem. The "NA" wasn't replaced by variables value in Zone/County Table.**

The variables value (55) should replace the "NA" in the SAFESEAS Zone/County Table. It could not be displayed like "NA 55" in the table. This was accomplished. (DR 17834)

**Problem. Missing sea surface temperature.**

The sea surface temperature was not showing up in the SAFESEAS table. A check on NHDA confirmed that data were coming in and being recorded. Therefore, the problem must be in the display software. This was fixed. (DR 17902)

**Problem. There are no colors of threat levels in the Zone/County Table.**

There were no colors of threat levels (e.g., red, green, and yellow) in the Zone/Country Table. (DR 17832)

**Problem. SAFESEAS shutdown signal to Guardian.**

When SAFESEAS is shut down (using the stop script), it should send a signal to Guardian that turns its icon white. This was accomplished. (DR 17727)

**Problem. Change "Wind Max" label to "Peak Wind".**

A PIT forecaster suggested changing the "Wind Max" label to "Peak Wind" in SNOW (same data, better label). This was accomplished. (DR 17724)

**Problem. GUI won't shut down.**

Previously, when the SAFESEAS config table was invoked, the main SAFESEAS GUI would not respond to the "clear" button; the D-2D itself must be shut down. (DR 17650)

**Problem. Sending wrong time to Guardian.**

The SAFESEAS button in Guardian was displaying January 1, 1970 valid times (which corresponds to a Julian time of 0). This was fixed. (DR 17649)

**Problem. Time trends not appearing.**

Right-clicking on an observation attribute should prompt time graphs to appear. Instead, an error message appeared stating that there are no data. This was fixed. (DR 17648)

**Problem. Cosmetic problems with config GUI buttons.**

When the SAFESEAS display configuration GUI was loaded, the up/down arrows on the bottom left shrank (i.e., they did not look like their counterparts on the monitor thresholds GUI). Also, the control buttons at the bottom of the display GUI were shrunken, while they were raised on the thresholds GUI. These issues did not affect the functionality, but they were fixed in order to make the interfaces consistent. (DR 17554)

**Problem. Bad dewpoint data.**

The dewpoint data were intermittently coming in garbled. This was fixed. (DR 17532)

**Problem. Threshold file permission problems.**

SS\_displayThresh.txt was read-write for the user only. For example, file permissions were rw-r--r--. This prevented the next user from opening the file, and the table would not start. This was fixed. (DR 17531)

**Problem. Reading the wrong startup file.**

SAFESEAS and SNOW were reading GIF loading pop-up files when they should have been reading PPM versions of those files. This affected both apps (SNOW more than SAFESEAS, which reverted to the obsolete GIF file, which SNOW doesn't have); however, this was listed as a "SAFESEAS" DR because the fix would be in code originally used for SAFESEAS and shared by SNOW. This was fixed. (DR 17515)

**Problem. Table and display sync (ref OB7.1 DR 16778).**

This is a duplicate of OB7.1 DR 16778. That fix was to help the SAFESEAS table and display stay in sync. It is a one-line fix in the safeseas.cdl file. This was accomplished. (DR 17444)

**Problem. Fixed buoy text wrapping.**

Previously, the lengthy raw fixed buoy report samples got stretched across the screen in the SAFESEAS D-2D display. It would be much easier to read if it were wrapped around, like the standalone D-2D buoy samples. This was accomplished. **(DR 17904)**

**1.22 OTHER****Problem. mexwxMonitor crashes after b5 release.**

After installing the b5 release of ifps, mexwxMonitor crashes with a Segmentation Fault. This was fixed. **(DR 18402)**

**Problem. Mesonet Backup data doesn't display in D2D.**

The cron started and data are being processed. But after 1 hour there is no VDOT.DAT data available in D2D. This was fixed. **(DR 18213)**

**Problem. RFC Archive DB: Query Performance for DatView Program.**

Previously, when executing the query based on the steps 4.1 through 4.6 of the Archive Database Test Plan, it took about 2 hours on TBDR test platform for data to display in the DatView plot and text windows. However, when executed on the NHDA platform it takes about 30 min. The query is:

```
SELECT * FROM pecrsep WHERE lid = 'KCDM7' AND pe1 LIKE 'H' AND pe2 LIKE 'G' AND dur LIKE 'I' AND e LIKE 'Z' AND p LIKE 'Z' AND obstime BETWEEN '1975-01-01' AND '2006-11-07' ORDER BY pe1, pe2, dur, obstime DESC.
```

This was fixed. **(DR 18282)**

**Problem. RFC Archive DB: Cannot connect to database when executed load\_ingest.**

While executing Archive Database Test Plan of DCS 3308. Fail on Step 32.3.

Executed load\_ingest script & the following error message displays:

```
"SQL ERROR: sqlstate: 08001, sqlcode: -402, file: pgload.pgc, line 45 sqlerrm: Could not connect to database adb_ob7krf in line 44." Because the database name is hard coded in the script. (DR 18200)
```

**Problem. "template" file for GFS BUFR Soundings not being generated.**

ON TBW3, the GFS BUFR Decoder is failing. Diagnostic efforts so far show that the "template" file needed by the decoder is not being generated by localization. It should be noted that this problem **did \*not\* occur** on the napo system or on the nhda system.

This DR failed due to the missing files. The missing files were:

1. /awips/fxa/data/GFSmodelBufDescTable.txt.
2. /awips/fxa/data/GFSmodelBufPattern.txt.

3. /awips/fxa/data/GFSmodelProfDescTable.txt.

This was fixed. **(DR 17901)**

**Problem. NIS migration should remove password aging from AWIPS admin accts.**

The NIS migration script creates 12 AWIPS "admin" accounts on dx1 (fxa, oper, etc). These accounts are created with an asterisk for the password, which prevents direct logins (accessible via su from root or sudo). 90-day password aging is implemented on all accounts by default through the delivery of a modified login.defs. So, when the NIS migration script is run on dx1, these AWIPS admin accounts will be created with password aging. We need to turn off password aging for these admin accounts as there are no passwords to age. (See Section I of the Release Notes for more information.) **(DR 17882)**

**Problem. NIS group file information incomplete.**

The old group NIS information listed all the users that belonged to each individual group. This information is missing from the new NIS group database on dx1, and this is causing the VerifySSHKeys.sh script to fail to create ssh keys for the users under the fxalpha group. Without these keys, ldad and archiver functionality is failing. **(DR 17868)**

**Problem. NMAP: Dot files have misleading version tags.**

The following dot files ...

```
.cshrc_5.9.2
.cshrc_data_5.9.2
.login_5.9.2
.profile_5.9.2
.profile_data_5.9.2
```

are bundled into the tarball for NMAP 5.9.4. That tarball is checked in to PVCS as AWIPS:NMAP-OB7.2/nmap.tar.gz;9. It was delivered under with name awips\_20060814.tar.gz. Its checksum (output from cksum) is:

```
3189047973 190524357 awips_20060814.tar.gz
```

Those 5.9.2 extensions are likely to be confusing to people attempting to verify that the correct version of NMAP is installed. This was fixed. **(DR 17933)**

**Problem. NMAP (NAWIPS) version 5.9.4 for AWIPS OB7.2.**

NMAP (NAWIPS) version 5.9.4 for AWIPS is available. **(DR 17878)**

**Problem. IFPS/SVCBU is not working for OB7.2.**

During the IFPS/SVCBU testing for OB7.2 (SWIT) it was found that the IFPS/SVCBU is not working. Not able to execute any IFPS/SVCBU functions from the SVCBU GUI. The SVCBU GUI indicates: "Waiting for a failed site's server to start". This was fixed. **(DR 17929)**

**Problem. IFPS/SVCBU MD (TBW4): The IFPS\_DOMAIN variable is set to the wrong site name in the ifps-main.env file.**

The IFPS\_DOMAIN variable is set to "AFC" instead of "aer alu" at TBW4 platform. This was fixed. (DR 18221)

**Problem. RF Performance improvements for DHM.**

Extended wait times were noticed when running DHM through the NWSRFS Interactive Forecast Program (IFP). This was fixed. (DR 17677)

**Problem. Incorporate new SNOW and FOG processes into AWIPS System Monitor.**

The new SNOW and FOG Monitor processes should be added into the monitoring process in AWIPS System Monitor. This was accomplished. (DR 17935)

**Problem. RF/HDB OB7.2 location change for historical data.**

The Historical Data Browser (HDB) uses data located on a server inside the AWIPS firewall. At the moment, the data are housed on the NHOR. However, the preferred long-term location is noaa1. OHD was unable to secure access to noaa1 in time to meet the OB7.2 software hand-off date. We now have access to noaa1; so the HDB shell script 'getstations' needs to be updated to access noaa1 instead of nhor. This was accomplished. (DR 17880)

**Problem. Unnecessary static and top fields in High-Resolution SST CDL file.**

High-resolution SST data will be included in the AWIPS data suite for OB7.2. However, the staticTop, staticCoriolis, staciXspacing, and staticYspacing variables in the cdl file are unnecessary or uniformly set to zero. Taking these parameters out of the cdl file will reduce the size of the resulting netcdf file by 80%. This was accomplished. (DR 17835)

**Problem. Headline wording changes when canceling a rapid rain induced snowmelt FFW.**

When rapid rain-induced snowmelt IC on the dam break template is chosen, then the warning is cancelled and the cancellation headline is changed to just say "excessive rainfall." This creates a QC error for IC/headline mismatch. This was fixed. (DR 17798)

**Problem. Freeway-related changes needed in Makefile.commonConfig [ref OB7.1 DR17000].**

Merge OB7.1's DR17000. (DR 17762)

**Problem. Data keys in dhmNotify.C need to update.**

The entry insertion in gridSourceTable.emplate resulted in data keys changes in gridDataKeys.txt. As those data keys are used in dhmNotify.C they need update. Otherwise, the notification signal will be sent to D-2D incorrectly. This was accomplished. (DR 17591)

**Problem. Missing wind speed and direction uncertainty parameters from RTMA CDL file.**

The wind speed and direction uncertainty parameters were inadvertently left out of the NDFD.cdl file. These were added late in the development cycle. Tested successfully in the runtime development area, but the changes to cdl file were not checked in with the rest of the files during initial check in period. This was accomplished. (DR 17522)

**Problem. Polar Microwave Menus and Sectors.**

Previously, the implementation did not match requirements: 1) The satellite menu and submenus are not what was agreed to; and 2) the "super national" sector is not displayed at the national scale. (DR 17508)

**Problem. D-2D fails to launch due to bad key in dataMenus.txt (ref OB7.1 DR 17053)**

The D-2D will not launch due to the unrecognized key 'HydroViewMPE' in the nationalData file dataMenus.txt. (DR 17507)

## 2.0 WARNING ADVISORY (WWA)

**Problem. Warning products going out with the wrong WMO header.**

Previously, warning products are being sent with the wrong heading (see DR 16346). (DR 17942)

**Note:** This problem affected all products generated by WarnGen and sent by Text Workstation. The most often-reported problem is that a Severe Weather Statement is sent as a Severe Weather Warning.

**Problem. Need new PILs for each WFO added to a2a file for new EWW product.**

The new Excessive Wind Warning product was introduced with 7.2. Currently, WarnGen is producing it under this PIL, but there is no associated entry for it in the national a2a file. All of the new PILs need to be added. Without this change, the warning does not get disseminated. Also, these products will also need to be archived (CIO/NCDC) as they are warning products. This was accomplished. (DR 17924)

**Problem. Can change areal flood warning/advisory type when following up the original.**

Previously, can change between Urban and SS, hydrologic, etc., warnings and advisories when following up original product. (DR 17803)

**Problem. Flood Advisory wording missing from headline/first bullet of FA.Ys.**

The words "flood advisory" are missing from all flood advisory products headlines and first bullet. This problem also causes a QC error on any FA.Y followup. This was fixed. (DR 17802)

**Problem. Can select another IC on followup or EXT of dambreak warning.**

The dambreak GUI allows different ICs to be chosen during follow-up or EXT. Jim Ramer indicated:

This requires a substantial modification of the template `wwa_dam_break.preWWA`. Most sites will have already customized this template by the time they receive the OB7.2 version. Many sites will choose to not merge in this change just to get this feature. I will go ahead and make the change in the default template, but people at NWSHQ and Raytheon need to be aware that many sites will thus have substantially different behavior from the default. This may result in confusion if there is a need to troubleshoot `warnGen` behavior in the future.

This was fixed. (DR 17800)

**Problem. Dambreak warning does not toggle correctly between IC options.**

Multiple ICs can be chosen from the dambreak IC GUI. It should toggle between the options like the areal flood GUIs. Jim Ramer indicated:

This requires a substantial modification of the template `wwa_dam_break.preWWA`. Most sites will have already customized this template by the time they receive the OB7.2 version. Many sites will choose to not merge in this change just to get this feature. I will go ahead and make the change in the default template, but people at NWSHQ and Raytheon need to be aware that many sites will thus have substantially different behavior from the default. This may result in confusion if there is a need to troubleshoot `warnGen` behavior in the future.

This was fixed. (DR 17999)

**Problem. QC error for rapid rain induced snow melt option in dam break template.**

When rapid rain induced snowmelt is chosen as the IC via the dam break template, a QC error is generated upon creation and transmit. This was fixed. (DR 17797)

**Problem. Password migration for NIS master server change.**

After the NIS migration (changing the NIS master server from DS1 to DX1) no user is able to log in. Root has to log in, and then each user password has to be manually reset. **See section 1 for more info.** (DR 17991)

## 3.0 HYDROLOGY

**Problem. HydroGen not retrieving flood category values.**

The HydroGen application retrieves information from the hydro database and generates XML files, which are then shipped through the local LDAD to the Regional web server. The regional web server generates hydrographs from the XML files and posts these hydrographs to public web pages. Some of the elements which are typically included in the XML file/hydrograph are the stage/discharge values for minor, moderate, and major flood categories. HydroGen has

retrieved these values from a database view called sigstages. The sigstages view was removed from the OB7.2 version of the hydro database; however, HydroGen in OB7.2 is still attempting to retrieve these values from sigstages. The retrieval fails, and the XML files are generated with missing values for the flood categories. The HydroGen log files identify the failure to find/query sigstages. This was fixed. (DR 18403)

**Problem. RiverPro VTEC ETN not reset in new year if carryover product.**

Event tracking numbers should reset at the beginning of a new year. In RiverPro, they will reset only if there is not an ongoing/active event at the carryover of the new year. If there is an active event, they do not reset. This is contrary to policy. This was fixed.

**Problem. RiverPro fails to properly handle VTEC for Flood Advisory.**

When creating Flood Advisory products, with a VTEC Phenomena and Significance code of FL.Y, RiverPro fails to recognize that an existing advisory event is in effect and will recommend a NEW action code and a new ETN when the user wants to continue or extend an existing FL.Y event. Z. This was fixed. (DR 18325)

**Problem. There was a HydroView application crash problem for OB7.2.**

Previously, selecting the time Lapse button and using the duration slider bar to set the duration longer than 1 hour from the Display Best Estimate QPE window, and pressing the Show Data button, caused the HydroView application to close. (DR 18301)

**Problem. Applauncher refers to old version of HydroView/MPE.**

The applauncher menu used to launch the hydroapps actually launched the OB6 version of Hydroview when it was still combined with MPE. The correct applications are accessible via the D2D NCEP/Hydro Menu. This was fixed. (DR 18216)

**Problem. ESPADP wrong data display.**

Previously, when following ESPADP test procedures, on step 9 the display window was not as expected. It displays a River level plot with all the values concentrated at value 239.00. (DR 18208)

**Problem. MAPX does not create output files.**

Previously, after running run\_mapx TEST, not all the expected output files were generated, the following files were missing:

/awips/hydroapps/lx/rfc/nwsrfs/calb/test\_mapx/WHINE.cvx01 and WHINE.zpx01 (DR 18207)

**Problem. Hourly Precip not being displayed properly.**

The Hourly Precip column data are not matching up with the field (hourly precip in hundredths of an inch) in the displayed METAR data. This could cause confusion for the forecasters if they are watching their precip totals in the SNOW app. This was fixed. (DR 18178)

**Problem. OH database tables owned by postgres causing db conversion errors.**

Previously, several tables in the hd\_OB72ccc database were owned by postgres. They were dailypp, locpdc, locrivermon, lwstmt, officenotes, rivermongroup, rivermonlocation, and vtecppractice. This was causing a problem in the OB72 hydro database conversion script because these tables attempt to alter the vtecppractice table as pguser. However, because they were owned by postgres there are errors and the table is not modified as a result. (DR 18105)

**Problem. RiverPro product correction operation saves wrong data.**

The method for generating product corrections in RiverPro is not practical for forecaster use. The awkward workaround method does not allow the product attribute information to be saved for future use. Saving this information is critical to preserving the continuity of the VTEC products. This was fixed. (DR 18077)

**Problem. RiverPro service backup fails.**

The RiverPro service backup fails due to some changes in the content of the MHS messages and some invalid handling of the datasets that are transmitted by the application. This was fixed. (DR 17892)

**Problem. HydroGen Manager menu startup failure.**

From the desktop AWIPS – HydroApps menu, selecting the HydroGen Manager to start, fails to start or to issue any error message. This was fixed. (DR 17889)

**Problem. MPE Editor polygon edits not always shown.**

If a QPE grid is displayed, and the user selects the edit polygon mode, and then performs successive raise/lower operations after closing each polygon, the latest polygon edits are not always displayed. The changes are there though; if the user switches hours, then switches back, the polygon changes are reflected. This was fixed. (DR 17886)

**Problem. Timeseries pre-defined latest forecast control ignored.**

Previously, in the graphical mode of Timeseries, when using predefined groups, if the show latest forecast only is set to False, it is ignored. (DR 17890)

**Problem. Hydrobase menu widgets name problem.**

The main menu pull-down menu for hydrogen configuration does not properly show the descriptive name; it shows the cryptic widget name. This was fixed. (DR 17888)

**Problem. RiverMonitor format shows too much precision.**

The RiverMonitor columns will show far too much numerical precision for certain numbers, i.e., those that are not even rounded numbers such as those edited in TimeSeries; or derived values. Also, it does not consistently use 2 digits to the right of the decimal point, and it should right-justify the data. The formatting throws off the column alignment and makes columns widths awkward, which reduces the usability of the data viewing. This was fixed. **(DR 17887)**

**Problem. TimeSeries Lite does not display primary forecast data.**

Timeseries Lite provides a quick graph of obs and forecast data. This includes river data, which can have different primary type-source specifies given. If the ts is given as F\*, the data will not plot. This was fixed. **(DR 17885)**

**Problem. HydroView/PDC crashes when re-reading location shift data.**

Previously, while selecting the Live Data main menu option for re-reading location shift data, the application crashes. **(DR 17884)**

**Problem. System Crashes when Stream or Reservoir option is selected.**

Description:

Launched the Hydroview.

Selected MapData -> Point Data Control and selected Time-Step mode.

Under the Stations button, selected both 'Stream' or 'Reservoir' option.

The system crashes (the Hydroview GUI disappears).

This was fixed. **(DR 17820)**

**Problem. The Elements second combo box is not blank (NULL value).**

On the Point Data Control GUI (Ad Hoc Query Mode): Under the Elements frame, when the Evaporation on the first combo box was selected and the corresponding items of Evaporation are displayed in the second combo box (e.g., 'EP Evap Pan Increment' for this case), which is correct. When FishCount was selected on the first combo box, it was noticed that 'EP Evap Pan Increment' is still remains on the second combo box. The second combo box of FishCount should be displayed as 'Blank' since there is no corresponding PEs for FishCount. The 'EP Evap Pan Increment' actually corresponded with Evaporation not FishCount. This was fixed. **(DR 17821)**

**Problem. nwrTrans.pl process is running on both dx1 and dx2 server.**

nwrTrans.pl is running on both dx1 and dx2. The one on dx2 should be killed if it was started by failover. This was fixed. **(DR 17867)**

**Problem. sendEnvironData.csh not getting published.**

John Olsen reported that he could not find sendEnvironData.pl on nhda. Evidently, when the

script was checked in under DCS3277, it was not added to the SCRIPTS list in dataIngest/Makefile. Accordingly, it's not published to /awips/fxa/bin. This was fixed. **(DR 17866)**

**Problem. BOOTP on DS's which are being decommissioned.**

In the current AWIPS configuration, BOOTP is run on the DS to configure printers. Because the DSs are powered down and being decommissioned as part of OB7.2, the way that printers are configured must be changed. It was recommended using either dhcpd or bootparamd on DX1 and DX2. This was accomplished. **(DR 17850)**

**Problem. hydroapps install issue**

The /awips/hydroapps/ob72/public directory path was part of the files released for install (ob72 is not a normal directory for these files). The OH executables were not running upon completion of the install. For example: gage\_pp was not running on DX1. This was fixed. **(DR 17779)**

**Problem. OH install data conversion not working.**

Previously, the data conversion portion of the OH install script failed. OH software will not install (the database will not populate properly) until this is corrected. In the auto\_convert part of the install script (shown below), there is reference to OB6.

```
# Run OH database scripts
echo "Converting ihfs database to OB7..."
cd /awips/hydroapps/ihfsdb_conversion
./auto_convert
#echo "Converting damcrest database to OB7..."
#cd /awips/hydroapps/ihfsdb_conversion/conversion_files_damcrest
#./auto_convert
# Change database name in .Apps_defaults_site
echo "Updating OH database names in .Apps_defaults_site..."
/bin/sed "s/hd_ob6$SITE_NAME/hd_ob7$SITE_NAME/"
/awips/hydroapps/.Apps_defaults_site > /tmp/.Apps_defaults_site
#/bin/sed "s/dc_ob6$SITE_NAME/dc_ob7$SITE_NAME/"
/tmp/.Apps_defaults_site > /awips/hydroapps/.Apps_defaults_site
chmod 644 /awips/hydroapps/.Apps_defaults_site
chown oper:fxalpha /awips/hydroapps/.Apps_defaults_site
```

**(DR 17767)**

**Problem. Hydroview river monitor starts up too slowly.**

For a large database, such as the RHA database, the initial display of the window takes too long. This was fixed. **(DR 17716)**

**Problem. MPE Editor needs to handle existing Endian files.**

Many sites will continue to use their big endian PRISM files without updating them in a little endian form. The MPE editor program needs to support this. This was accomplished. **(DR 17715)**

**Problem. PostGres hydro delete\_location needs new table.**

The new table RiverMonLocation needs to be added to the postgres delete\_location function to allow a *delete to be location* using the HydroBase cascade function. **(DR17714)**

**Note:** Added to OB7.2 as a PIT DR. Also covered under RA-050 on 09/07/2006.

This was accomplished.

**Problem. MPE file purges looking in wrong directory.**

The purge\_mpe\_files script looks in the wrong directory for the gen\_areal\_qpe log files. This was fixed. **(DR 17713)**

**Problem. DailyQC utility app adjustments.**

The RUC script creates a file that needs the perms set to 755 and the create station apps need to order the station lists alphabetically. This was fixed. **(DR 17712)**

**Problem. DailyQC preprocessor not processing 6hour reports incorrectly.**

The values need to be scaled by 100 to be in units of inches. This was fixed. **(DR 17711)**

**Problem. Whfs app startup problem.**

Previously, the hydroview and time series lite utility fail to start up due to missing paths in their startup environment. **(DR 17710)**

**Problem. AWOS/ASOS gage data were plotted incorrectly in the Basin Trend Display graph.**

When the AWOS/ASOS gage data are ingested into AWIPS through Hydrology database ingest server, each 15-minute interval accumulation within one hour could be reported as 4 separate 1-hour accumulation data in the database. One of the WFOs reported the incorrect plotting of the accumulation in the basin trend graph (overestimate). So an extra check needs to be added to make sure only one record within each hour period should be used for the gage precip accumulation in the VGB's trend plotting. This DR fix is very important to the sites to show correct comparison between radar and gage observations. This was accomplished. **(DR 17645)**

**Problem. HF 7.2 PDC Time Step Temperature Plot Error.**

In the PDC Time Step Mode, multiple temperatures are plotted for ASOS stations at the synoptic times, 0z, 06z, 12z, and 18z. These temperatures are plotted on top of each other making the values difficult to read. These appear to be from the 1 hour, 6 hour max, and 6 hour min ASOS temperature reports. This was fixed. **(DR 17633)**

**Problem. HF 7.2 Timeseries Crashes in Hydroview.**

Timeseries crashes in hydroview when the user attempts to display forecast data. This only seems to happen if Timeseries is launched from Hydroview. It does not happen in stand-alone Timeseries. This was fixed. (DR 17632)

**Problem. Automatically select shapefile for river flow directions.**

River flow directions shapefile is RFC site-specific. Previously, the design made the users to rename the shapefile to a name specified in makeMapFiles.csh after it is downloaded from NOAA1 server. This was fixed. (DR 17588)

**Problem. Update bcd file name for river forecast group boundaries.**

The bcd file created by makeMapFiles.csh for river forecast group boundaries does not match that defined in dataInfo.manual. This was fixed. (DR 17587)

**Problem. Clean up the hydro grids task (Ref OB7.2 DCS 3285, Ref DR 17526).**

Changes were made to the config files and the main class that handles the storage of the data to accommodate netcdf file format additions. (DR 17547)

## 4.0 LDAD

**Problem. LDAD storage processes fail due to incorrect environment.**

The routerShefEncoder fails to send products. This is due to the executable being started without certain FXA environment variables. This will prevent sites from being able to send any LDAD data as SHEF products and possibly prevent other uses of LDAD. (DR 18296)

**Problem. Cannot access the lda.conf and ldd.conf files within the "LDAD Internal Processes" menu in Mozilla.**

The lda.conf and ldd.conf files are accessed via the Data Acquisition/Data Dissemination from the Configure Monitor Tables section of the LDAD System Administration window. When choosing the Data Acquisition or Data Dissemination options within the LDAD System Administration window, a blank file comes up in another window. This was fixed. (DR 17841)

**Problem. routerStoreNetcdf locks up.**

VUY reported that routerStoreNetcdf periodically stops storing data. The stoppage consistently occurred when "SCO.latest.dat" was ingested. This was fixed. (DR 18331)

## 5.0 SYSTEM

### 5.1 Product/Process/System Monitoring

**Problem. No monitoring of FXA\_DATA, /data/adapt, /data/local.**

For OB7.2, with ds1/ds2 deactivated, we are no longer monitoring space on some nas1 partitions. dataMon/disk.cfg needs to be updated to remove the ds entries and add \$FXA\_DATA, /data/adapt, and /data/local on one of the dxs. (DR 17897)

**Problem. IHFS database delete location is missing a table.**

The table LocArea has the lid (location id) as a primary key so it needs to be part of the delete\_location function. (DR 17891)

**Problem. notificationServer went into zombie state (ref OB7.1 DR 17708). (See DR17275.)**

At OUN, the notificationServer went into its zombie state when the notificationServer was attempting to update a textDepictKeys. When the notificationServer goes into its zombie state, it will log accepting connections, but not disconnecting them. If you issue a netstat --inet you will see a lot of these connections in a CLOSE\_WAIT state, so the notificationServer should be disconnecting them at this point, but it doesn't. This was fixed. (DR 17709)

### 5.2 Radar System

**Problem. TJFK (TDWR radar) data not available; config problem; TBW3 (Ref DCS 3312).**

Previously, the TJFK (TDWR radar) data is unavailable on TBW3. The problem is due to an improper radar configuration. Was unable to test DCS 3312. (DR 18136)

**Problem. TBW3 - KBOX radar data not available.**

KBOX radar on TBW3 is not available. Cannot complete radar/FFMP SIT DRs and DCSs. (DR 18120)

**Problem. FFMP loc script - use of echo \***

One new FFMP localization script uses 'echo \*\*\*\*', which apparently echoes the list of files in the current directory. This means that this list will appear in the localization output. The solution is known and extremely low effort. No work-around is needed because this does not affect functionality; it only affects amount of localization text output. This was fixed. (DR 17818)

### 5.3 System Process/Log/Purging/Localization

**Problem. NIS password aging after NIS conversion.**

As result of the NIS conversion, the root password on DX1 is aged. The system automatically ages the root password and prompts the user to change it. It would reduce the amount risk associated with a successful install by not having the root password age right in the middle of the

install. Refer Section 1 for more info. (DR 18068)

**Problem. Remove DS references from sshkeys script the SSH keys script has to be modified.**

The references to DSs needs to be commented out or deleted now that the DSs are powered down for OB7.2. This was accomplished. (DR 17849)

**Problem. purging process sometimes removes good data.**

On NHDA the directory /data/fxa/ispan/hydro\_adbs/ (where incoming SHEF messages are placed for processing by the shefdecode\_raw program) is purged periodically using the PurgeProcess program. The configuration file for this program is /awips/fxa/data/localization/nationalData/purgeInfo.txt. The current version of the purgeInfo.txt file has the hydro\_adbs directory being purged down to a total of 10 files every time it is run. This low number of files being retained is sometimes causing good SHEF data files to be deleted. (DR 17993)

**Problem. Finish "FSL OB7 RPU:**

Remove WSFO logic in localization" by removing makeGeoTables from file\_stage.list (Ref DCS 3286). To finish DCS 3286 the bin/makeGeoTables entry should be removed from siteConfig/environs/file\_stage.list. This was accomplished. (DR 17971)

**Problem. PYTHONHOME env var should not be set (Regression from DR\_16725).**

The PYTHONHOME environment variable is being set in ~fxa/.environs, which is generated from D-2D/src/siteConfig/environs/fxa.environs. That will cause native Red Hat python applications to fail.

This problem was originally DR'ed as DR\_16725, and was fixed in OB7.1. It has reappeared in OB7.2.

This was fixed. (DR 17998)

**Problem. GW: gflslamp.cdl is missing cdldate attribute.**

The cdldate attribute needs to be added to gflslamp.cdl so that if this file is changed, the cdldate can be updated. This will let localization know that a new template file needs to be made from the cdl file. Otherwise the changes will be ignored unless the existing template file in /data/fxa/point/gflslamp/netcdf is removed. This was fixed. (DR 17914)

**Problem. two virtualFieldTable.txt syntax typos cause localization errors.**

In virtualFieldTable.txt, fields for different display parameters are separated by vertical lines. For two new parameters WSmean and WSsprd, there is an extra vertical line between the units and the different types of displays that are valid for this product. This causes localization errors to be reported, though displays of the fields do not seem to be affected overall. This was fixed. (DR 17833)

**Problem. Ingest Restart upgrades for OB7.2.**

From the Ingest Restart GUI when SBN Ingest option is selected the following processes don't restart:

On DX1:

```
MhsServer
MhsRequestServer
```

On PX1:

```
hmMonitorServer
```

(DR 17817)

Also on DX2 the processes wfoApi and syncComms should be removed from the system. All these tasks were fixed.

**Problem. Intelligent Purger: FFMP entry. The FFMP entry in the Intelligent Purger config files (for DR 16528) is incorrect.**

The entry needs to be removed from the local file and added in the radarPurgeInfo.template file with slightly different parameters. If this change is not made, the FFMP data directories for each radar will accumulate an unknown amount of data. This was fixed. (DR 17517)

**Problem. Localization hangs at very end of mainScript, making all localization data set files group writable.**

done at Wed Jun 7 18:39:22 GMT 2006

```
-----
***** Localization hangs here (at very end of mainScript)
process list showing hung mainScript.csh -
fxa  23634 23497 0 18:19 pts/7  00:00:00 /bin/csh -f
./mainScript.csh f -install
root  24589 15379 0 18:42 pts/19 00:00:00 grep main
***** kill 23634

[root@dx1-nhda 7]# cat: -: Input/output error
```

There seems to be a mishandled 'cat' in mainScript or one of its child scripts. This was fixed. (DR 17505)

**Problem. Localization hangs when creating FFMP sup file localization hangs.**

When createFFMPsupFile.csh is running and creating FFMP sup files - -- The kakq lookupFiles need to be updated.

Creating the FFMP\_kakq.sup sup file.

No CWAs for kakq

/root/bin/return: Permission denied.

----- cwas for radar kakq

\*\*\*\*\* Localization hangs at this point....

Must kill createFFMP script to continue localization. This was fixed. **(DR 17504)**

**Problem. setupAwipsUser customized AWIPS .KDE user settings.**

The /home/awipsadm/setupAwipsUser.sh script automatically loads AWIPS customized environment files (.KDE) in the user's home directory when a new user account is created. The files in the .KDE directory in each user's home directory have changed for OB7.1 (upgrade of Redhat from RHEL 3u4 to RHEL 4u2). Users are not able to log in to D2D correctly. The setupAwipsUser.sh script needs to load the correct .KDE files when it builds a user's home directory (when it creates a new user account). This was fixed. **(DR 17463)**

## 5.4 General

**Problem. Xyplex terminal server and firewall configuration needed on TBW3 (Ref. DR 17626).**

Ref DR 17626: Unable to retrieve LARC, Cambell, Sutron, and Handar gauge data. Suspect that the continuing firewall issues at this facility are the root cause. This was resolved. **(DR 17916)**

**Problem. purge keys need to match the gridNetCDF keys.**

An additional grid source was added in between others in gridSourceTable.template. After localization, this has the effect of the grid netCDF keys not matching those in gridPurgeInfo.txt which was checked in prior to the change in gridSourceTable.template. Therefore, gridPurgeInfo.txt needs to be changed with the new key info which will be retrieved from a test platform installed and localized with the latest gridSourceTable.template. This was accomplished. **(DR 17537)**

**Problem. CPU monitor display did not show DX3 and DX4.**

Previously, when clicking "CPU Monitor" button, the display did not show DX3 and DX4 servers. **(DR 17536)**

**Problem. Decommission HP Data Server.**

LDAD Processes (Ref OB7.1 DCS 3314). This is a merge DR for DCS 3314. It depends on merge DRs 17259, 17380, and 17394. **(DR 17436)**

**Problem. Duplicate the OB7.1 changes for "Decommission the DS" in OB7.2 (Ref OB7.1 DCS 3282).**

Port remaining radar processes including RMR\_Server, DialServer, dialRadar, ORPGReqMgr and ORPGCommsMgr to Linux Provide continued dial-out backup capability. This was accomplished. (DR 17419)

See <http://www-sdd.fsl.noaa.gov/~fxa/requirements/awips-OB7/OB7.reqs.html> for more information.

**5.5 Install****Problem. ofsshef.LX Missing from OB7.2 Beta Load.**

Previously, the OB7.2 version of ofsshef.LX is missing.

The OB7.2 version of ofsshef.LX is missing. The ofsshef.LX program moves time series data from the NWSRFS fs5files and writes the data out to a formatted file. This file is processed by the shef\_decode\_pro program which then writes the data into the archive database on the AX. The archived data includes the MAP (Mean Areal Precip), MAPX (NEXRAD Mean Areal Precip) and MAT (Mean Areal Temperature) environmental time series data, the hydrologic time series (QIN, SQIN, QINE, etc) as well as the snow and soil moisture time series data. If this data is not archive it is lost within 10 to 30 days. This will adversely impact calibration of the hydrologic models and consequently forecast accuracy. (DR 18360)

**Problem. HP-UX 10.20 needs DST time mod for 2007.**

Older Hewlett-Packard systems did not have programming for new Daylight Saving Time passed in 2005. The new time starts in 2007. All NOAA is on GMT, but enough utilities use local time and need awareness of schools and traffic that it could be important.

As a result of the Energy Policy Act of 2005, to begin activation in March of 2007, the embedded time adjustments in the HP-UX machines (LS1, DS1 and DS2) would miss the new shift. This was fixed. (DR 18344)

**Problem. Need to modify INSTRUCTIONS file for svc backup (Ref. OB8.1 DR 18407).**

Modified the instructions to 'new' for the scripts import\_svc\_backup\_data.bat and retrieve\_svc\_backup\_data to ensure new versions of them get installed. (DR 18361)

**Problem. OFSDE/BATCHPOST not transferring data or data...**

At the RFCs the OFSDE/BATCHPOST process moves data from the IHFS database. After loading the OB7.2 Beta and running the OFSDE/BATCHPOST process, either the stream flow data was missing or values were not correct. This was fixed. (DR 18436)

**Problem. Beta run\_vacuumdb script does not run.**

The script /rfc\_arc/scripts/dbadmin/run\_vacuumdb specifies that the adb\_ob72krf database be vacuumed as show:

```
/usr/bin/vacuum -U postgres -d adb_ob72krf ....
```

The script should be getting the adb\_name token from the apps defaults file - i.e.,

```
DBNAME=`adb_name`
```

```
/usr/bin/vacuum -U postgres -d $DBNAME ....(DR 18326)
```

**Problem. AX Install script oldFilesCleanUp.sh error.**

When running the oldFilesCleanUp.sh the script returned the following error:

"/rfc\_arc/bin/sdswss not a file" This is actually a directory that needs to be removed. Looking at the script indicates that the line "rm -f /rfc\_arc/bin/sdswss" needs to be changed to "rm -rf /rfc\_arc/bin/sdswss". (DR 18324)

**Problem. /data/dhm directory has incorrect ownership and permissions.**

When the /data/dhm directory is created, it is owned by root, and has 755 permissions. This prevents any user from creating data in this directory, causing problems with the DHM processes. This directory should be owned by fxa:fxalpha and have 777 permissions. (DR 18223)

**Problem. IFPS Install script OB7.1 references.**

All echo messages that appear on the screen during the install that refer to OB7.1 should be changed to OB7.2. (DR 18219)

**Problem. NIS migration script fails to shutdown NIS client/server on DS's.**

Previously, a logic error in the NIS migration script resulted in the NIS client and server processes on the HP DSs to continue to run. This was seen during the OB7.2 a2 install on NMTR on 10/18. It is critical that these NIS processes be shut down when the NIS master migrates to dx1; otherwise the HP-UX ServiceGuard (cluster) will not function properly on the DSs. (DR 18143)

**Problem. IFPS install script INFORMIX to postGres conversion.**

The INFORMIX-to-postgres conversion needs to be taken out of the installIFPS installation script. If the conversion continues to be executed, it could corrupt data. (DR 18188)

**Problem. IFPS install script postgres user problem.**

In the installIFPS script, the postgres user account looks for and tries to kill postgres/IFPS processes before the installation. This does not work because postgres (the user account) does not have permissions to kill other users' processes. These processes need to be terminated

differently. **(DR 18187)**

**Problem. Service backup failed to export BOX's configuration data to the central server.**

Previously, the service backup would fail while exporting the BOX's configuration files to the central server. **(DR 18176)**

**Problem. Grib products not being filtered out because acq\_wmo\_parms.sbn not installed correctly on the cps.**

Previously, GFS grib products were not being filtered out and was overwriting the appropriate grib2 format products. This is because the acq\_wmo\_parms.sbn.east (or .west) is not being installed into /awips/data/acq\_wmo\_parms.sbn on the cpsbns, and the default acq\_wmo\_parms.sbn file does not have the appropriate changes. This was a deficiency in the installLinux script in OB7.1. **(DR 18175)**

**Problem. Directories in /awips/hydroapps owned by root.**

Previously, some directories, specifically /awips/hydroapps/precip\_proc/local/data/mpe/rfcqpe\*, were owned by root after the OB7.2 install. This was traced back to a command in the installOH\_OB72 script, which was only showing files and directories to operate under /awips/hydroapps, except those with rfc or damcat in their names. Obviously this was keeping those directories from getting the right ownership. **(DR 18155)**

**Problem. RHEL4 Security Patches from September 2006 scans.**

RedHat security scans are run quarterly to test for and identify high- and medium-level vulnerabilities. Then the patches for these vulnerabilities must be found and downloaded from RedHat's web site. Then the patches must be installed and tested. **(DR 18028)**

**Problem. RF OB7.2 set\_rfcapps\_perms.ksh needs to be updated for new OB7.2 Apps.**

The installation script, set\_rfcapps\_perms.ksh, does not set the permissions for files which are new for OB7.2. If this script is not corrected, each RFC will have to change the file permissions manually. This was fixed. **(DR 17870)**

**Problem. RAX OS installation.**

To check in and track all the scripts and files necessary to perform the RFC ax OS upgrade from RH7.2 to RHEL4u2. This was accomplished. **(DR 17814)**

**Problem. NIS: The NISmaster move script should be modified so that the ds1 hosts file is copied to ds2.**

The nis client is shutdown on both ds1 and ds2, and namesvrs turns off nis client and server on both ds1 and ds2. **(DR 17788)**

**Problem. NIS migration script should not install passwdqc on dx1.**

As part of the script to migrate the NIS master server from ds1 to dx1, the pam module

'passwdqc' is substituted for the default 'cracklib' in the pam system-auth file on dx1.

passwdqc is a password 'quality control' module which will perform password strength checking. The problem is that the algorithm used by passwdqc imposes unreasonably rigid conditions on the 'quality' (strength) of a password (for example, a leading uppercase letter or trailing digit do not count when determining whether a password has characters that are uppercase, lowercase, special chars, or digits!). Some users on NHDA have complained about this. I believe most of these complaints have merit. The NIS migration script should be modified so that passwdqc is NOT installed and instead we revert to using the default cracklib in the system-auth file. **(DR 17804)**

**Problem. RF. RAXUM script sometimes fails on database updates.**

Previously, the OB7.2 RAXUM script sometimes failed on database updates. **(DR 17682)**

**Problem. ADAPT install.**

The ADAPT install script attempted to untar and install files from a tar file called climate\_ix.tgz. This file did not exist in the staging area of files to be installed. **(DR 17778)**

**Problem. Merge OB7.1 DCSs 3310, 3324, 3325, 3326 (rpm packaging tools, examples)**

Merge the RPM packaging tools and the changes for the example applications (appLauncher, synoptic, dataMon) from the OB7.1 workset into the OB7.2 workset.

Copy the following new files unchanged from 7.1 to 7.2:

tools/template.spec

tools/buildSpecFile

tools/buildawipsrpm

Merge changes into the following existing files:

Makefile.commonConfig

D-2D/siteConfig/appLauncher/Makefile

D-2D/dataMon/Makefile

D-2D/synoptic/Makefile

The following files were created new in OB7.1 for the RPM packaging project. They may need to be modified for OB7.2 because they contain lists of files to be installed:

D-2D/siteConfig/appLauncher/appLauncher.spec.template

D-2D/dataMon/dataMon\_data.spec.template

D-2D/dataMon/dataMon\_scripts.spec.template

D-2D/dm/synoptic/synoptic.spec.template

This was accomplished. **(DR 17766)**

**Problem. Change NAPO's LAMP\_ID and LAMP\_NUM.**

Previously, NAPO was using the same LAMP\_ID as NHDA ("ALY").

This was changed in the file LAMPsetup which lives in the ADAPT tarball lampmain\_LX.tar.gz. (DR 17765)

**Problem. FFMP loc file with bad last line**

The file /data/fxa/tstorm/FFMPradarToCWA.txt has a last line that tricks the grep command into thinking it is a binary file. It is a text file. This misidentification can cause the OB7.2 FFMP localization to fail, thus FFMP would be unusable. (This is only an OB7.2 issue.) This file is not delivered, does not exist in any workset, and is only created once (never re-created) by the software. (DR 17761)

**Problem. Color Tables Incorrectly Labeled in colorMaps.mark. (ASM).**

Some of the color tables in file ../D-2D/src/dataMgmt/colormaps.mark are labeled with the wrong color table keys. While this causes no runtime symptoms, it can (and did!) cause developers real trouble while developing, testing, and debugging new D-2D displays. This was fixed. (DR 17743)

**Problem. FFMP Basin Trace crash.**

Previously, when a Basin Trace is activated in FFMP display, the FFMP extension crashes and re-starts. (DR 17663)

**Problem. script to move NIS master to dx1 needs some fixes.**

The script to move the NIS master "move NISmaster.sh" has a couple bugs:

1. Typo in line that inserts msgrcv\_svr into the new /etc/services file on dx1.
2. mkpasswd is used in the script to automatically generate new passwords for each user during the NIS migration. mkpasswd occasionally generates a password that cannot be inserted in the shadow password file on dx1.

This was fixed. (DR 17608)

**Problem. Adapt install problems.**

The ADAPT install needs to be updated to run in OB7.2. This was accomplished. (DR 17550)

## 5.6 QPE/MPE

**Problem. Site Specific precip process unable to handle RFC precip.**

In OB7.2, the ability to ingest RFC based QPE products is available. The user can manually set the RFC grid to be the one used as precip input to the Site Specific headwater model. Upon discussions, that is considered to be demanding on the user time. This process needs to be automated. This was accomplished. (DR 18078)

**Problem. RiverPro product correction operation saves wrong data.**

The method for generating product corrections in RiverPro is not practical for forecaster use. The awkward workaround method does not allow the product attribute information to be saved for future use. The ability to save information is critical to preserving the continuity of the VTEC products. This was fixed. (DR 18077)

**Problem. MPE Editor: System Crashes when selected "Precipitation" option.**

During executing MPE-Editors-3365 test case, the system crashes when selected one of these buttons (Precipitation, Temperature, and Freezing) on the Choose Data Period window. This was fixed. (DR 17925)

**Problem. OB7.2: mkdirs.csh should create an HRAP directory (Ref OB7.2 DCS 3285).**

mkdirs.csh does not have an entry for the HRAP directory. This directory is needed to support the OHD RFC QPE work. This was fixed. (DR 17526)

## 5.7 IFPS

**Problem. The IFPS/SVCBU not able to display the failed site grids at TBW4.**

After imported the configuration files and grids of the failed site from the central server the backup sites for ALU and AER at TBW4 were not able to display the grids from the GFE GUI. (DR 18415)

**Problem. The GHG IFPS/SVCBU function is not working on OB7.2.**

Previously, the GHG function for IFPS service backup was not working. Was unable to import any grids from the central server. ( Ref. to DCS 3290). (DR 18145)

**Problem. IFPS/SB Multi Domain: The IFPS\_DOMAIN variable on the ifps-main.env file is not set correctly.**

Previously, the IFPS\_DOMAIN variable on ifps-main.env file was not set correctly. The IFPS\_DOMAIN variable was set to "afc" instead of "alu aer". So, the IFPS/SVCBU multi domain was not working. (DR 18082)

**Problem. IFPS - Install - INFORMIX to PostGres conversion.**

There were several PostGres-related errors in the IFPS install. It appears that these errors occurred because the INFORMIX to PostGres conversion was already done in OB7.1 and does not need to be part of OB7.2. It appears that the install script is attempting to do the INFORMIX-to-PostGres conversion again. (DR 17777)

## 5.8 Crons

**Problem. IFPS: IFPS cron files are for AER rather than ALU on px3-tbw4.**

On the OB7.2 OCONUS testbed, tbw4, the IFPS cron files in /awips/ifps/primary/crontab are for

AER. They should be for ALU. The AER cronfiles are written to px3 during the IFPS install. When the ifpServer starts after the install or on failover, GFE and IFPS are running for AER rather than ALU on px3 (or px4). **(DR 18217)**

**Problem. /awips/ops/data/mc/postgres.dx1apps.cron vacuum entry needs changing for hydro databases.**

BCQ's /data/db/ihfs database disk partition was not being vacuumed as the crontab has hard-coded into it a vacuum command for the OB6 database.

```
15 # vacuum/analyze hd_ob6${FXA_INGEST_SITE}
16 # 17 00 00,04,08,12,16,20 * * * . ${FXA_HOME:=~/fxa}/readenv.sh;
    /awips/ops/bin/vacuum_pgdb -d hd_ob6$(echo $FXA_INGEST_SITE | tr "[A-Z]" "[a-z]") -z.
```

**(DR 18164)**

**Problem. Cron to execute HydroStoreGrids is missing from DCS 3285.**

DCS 3285 implemented the capability to ingest and decode RFC grids at a WFO, mosaic multiple RFC grids into a super-grid, crop to the WFO domain, and display them. From the testing instructions, the RFC QPE Grid test case was created. However, the step to check for the cron that kicks off an executable called HydroStoreGrids doesn't find the cron in /etc/cron.d on dx3 or dx1, and many of the following steps fail because the grids are not created/stored. This is fixed. **(DR 18119)**

**Problem. Need cron job on dx1 to run ypmake (NIS master server).**

We need to add a cron job to root's cron on dx1 to run ypmake twice a day. This is part of the migration of the NIS master server from ds1 to dx1. On the ds1 NIS master, the root cron will run ypmake a couple times per day -- the reason is because some sites will make password, group, or host changes on the NIS master and sometimes forget to push out those changes manually through ypmake. Running via cron will ensure that the NIS maps are consistent on each LAN. **(DR 17806)**

**Problem. dx2/dx3/dx4 disk space not being monitored (Ref. OB7.1 DR 17320).**

The same call to diskUsage.pl that's in ingest.crontab.dx1/px1/etc. needs to be added to ingest.crontab.dx2, ingest.crontab.dx3, and ingest.crontab.dx4. **(DR 17321)**

**Problem. ifps combined crontab needs to move from dx2cron to dx4cron (REF OB7.1 DR 17313).**

In the crontab templates, the ifps combined crontab needs to move from dx2cron to dx4cron. This was accomplished. **(DR 17314)**

## 5.9 Documentation

### **Problem. Update Documentation URLs (Ref OB7.1 DR 17405).**

The OB7.2 documentation URLs need to be updated. Also, a link to GFE documentation should be provided. This was accomplished. (DR 17680)

## 5.10 ShefDecoder

### **Problem. RAX OB7.2 start\_processed\_decoder script does not run correctly.**

The start\_processed\_decoder script contains an error which prevents it from running correctly. The result of this problem is that the user cannot start the shef\_decode\_pro application which will mean that no data will be posted to the rfc archive database's processed shef data value tables. This problem could also result in the /rfc\_arc\_data partition filling to 100%. (DR 17871)

### **Problem. Verification Apps Ignoring SHEF Qualifier Codes.**

Previously, when pairing observed and forecast values, the application does not handle the SHEF qualifier codes properly. When the qualifier coded for an observed value is B, E or R, the value should not be used. (DR 18419)

## 5.11 AVNFPS

### **Problem. Grid Monitoring fails due to unassigned variable (Ref 18276).**

Previously, when mousing over AvnWatch Grid Monitoring section, a balloon appeared indicating an internal error and to check log file. (DR 18271)

### **Problem. AVNFPS menus are incorrect after WFOA install.**

After a WFOA install, the appLauncher does not post the correct AVNFPS menu. This is because appLauncher is now part of an rpm install, which means all files, regardless if they've been changed, are installed. This includes a default /awips/fxa/data/appLauncher/AVNFP.conf file. This file is normally overwritten by an avnfps install with the correct menus. However, if a WFOA install occurs without a subsequent AVNFPS install, then the AVNFPS menus will be incorrect. (DR 18285)

### **Problem. AvnFPS Monitoring fails.**

Previously, when IFPS gridded arrived in AvnFPS system, all monitoring functions failed. (DR 18323)

### **Problem. Remove obsolete information in 'Help->About' GUI.**

GT has left the AvnFPS project. Contact information was removed. (DR 17906)

**Problem. 'All' button in GFSLAMP guidance shows incorrect TAFs.**

Previously, when 'All' button is clicked, the LAMP TAFs are not the same as when they are individually shown in the window, especially when there are thunderstorms forecasted. **(DR 17905)**

**Problem. Displaying NAM-WRF guidance fails in WxPlot.**

During executing Baseline test case 'Baseline\_AvnFPS\_WeatherPlot', while loading the NAM-WRF weather plot an error message "Unexpected error, check log file" displays on the bottom status bar. Below are the steps:

1. Launched AvnWatch GUI
2. Selected Plot button
3. Clicked on the toggle button of NAM-WRF guidance to load the weather plot. **(DR 17837)**

**Problem. Wind Rose print statistics function breaks when 'Num Hours' field is greater than one.**

During executing baseline test case 'Baseline\_AvnFPS\_WindRose', while saving the IFR Flight Category for 8 point received the message "Program bug - please report. Details in the log". Below are the steps:

1. Launched wind rose GUI
2. Selected File >> Configure & selected 8 point
3. Modified the month, hour & num hour fields
4. Selected IFR Flight Cat
5. Clicked Draw button
6. Clicked File >> Save Stats & entered the file name
7. Clicked Save.

**(DR 17836)**

**Problem. AVNFPS INSTALL SCRIPT.**

The AVNFPS installation script is designed with the idea in mind that it will only be executed one time (during the final OB7.2 installation). In order to install deltas during preSWIT, SWIT, and SIT Environment Team personnel have to "back out" to the previous release in order for the new delta to install successfully. The uninstall process back to the previous release is manual and prone to errors. In addition, the force option for the AVNFPS install can result in files not being installed properly. **(DR 17827)**

**Problem. Minor configuration changes to AvnWatch and WxPlot GUIs.**

GFSLAMP tab is missing from AvnWatch's TAF Editor/Viewer. Also, there's no option to view it in the Weather Plot GUI either. **(DR 17776)**

**Problem. Dry thunderstorms in GFSLAMP fail to combine.**

After first pass at combining, there are TAF groups that remain, which can still be further combined. **(DR 17775)**

**Problem. Climate GUI tables are clipped off.**

The KDE desktop and mathplot library uses fonts which cause tables containing results from the climate distribution and trend tools to be clipped at the bottom rendering the last row of the table unreadable. **(DR 17698)**

**Problem. avnfps processes won't start up when px2apps is started.**

Previously, the bug in the avnfps startup script anvstart.sh (or in avnenv.sh) prevented the avnfps processes from starting. This caused the startup of px2apps to fail. **(DR 17557)**

**5.12 Other****Problem. Glance Plus GUI doesn't open.**

Previously, when tested for the Product and System Monitoring Test.

Step 8 - Bring up Glance Plus GUI.

```
setenv DISPLAY lx#-:0.0
xhost +
rlogin dx# -l root
export DISPLAY=lx#-:0.1
```

(GPM &) Glance Plus GUI didn't open. **(DR 18204)**

**Problem. Error Message to LSR GUI Open.**

An Error message was encountered when opening LSR GUI.

```
[Could not get the Bouy list using the Bouy/CMAN Location shortcut has been
deactivated for this session]
```

Step 11- Doesn't update with current time.

Step 20 - When attempting to load product, (No Events Found)

**(DR 18185)**

**Problem. USD & USW hour requested is erroneous.**

Previously, when a user OTRs for USD (or USW), the hour requested lines are listed with the number 32768. **(DR 18170)**

**Problem. rawRank variable bug.**

UnboundLocalError: local variable 'rawRank' referenced before assignment. This was fixed. **(DR 18161)**

**Problem. Problem with HazardsTable.py file. Unable to match SPC watch to VTEC headline.**

Problem with HazardsTable.py file when running the Hazard\_WCN product. This was fixed. **(DR 18157)**

**Problem. RUC13 model data not available (Ref OB7.2 DCS 3322) (est. avail. Dec 2006)**

Previously, the Rapid Update Cycle 13km (RUC13) model data were not making it to TNCF: The data are not being sent from NWSTG. It stopped sending the data. **(DR 18135)**

**Problem. Baseline\_HydroTS.**

Previously, in Test Case Baseline\_HydroTS; while performing step #6 an error message was displayed "Data not found." **(DR 18215)**

**Problem. SCAN Localization needs hydro database to be available to complete successfully.**

Previously, in the install process, the hydro database is offline during the scan install. This caused errors in the scan localization and gage information from the database is not processed. **(DR 18173)**

**Problem. Service backup cleanup not removing databases.**

The following errors were fixed.

import\_svc\_backup\_data.bat needs to use df instead of bdf (not on user system)

cleanup\_svbk needs to use database name ifps\_{failed\_site} instead of \$dbname when dropping databases, otherwise nothing gets dropped. there is no path to sqlerr.tmp path defined in the dropdb command -- should be \$LOG\_DIR

Brackets are needed around the \$LINUX\_BIN var to stop the complaints about libstdc++ by run\_as.

**(DR 18404)****Problem. Unable to send a fax.**

Previously, when attempting to send a fax from tbdw and tbw4, the fax doesn't go through. No error messages were present. **(DR 18202)**

**Problem. Unable to print from RAX.**

After the OB7.2 OS install on the RFC AX system, users are unable to print. **(DR 18302)**

**Problem. Wrong id code in GRIBDecoder file.**

In testing DCS 3285 and DR 17893, we have discovered that a configuration file has the wrong code. With guidance from GSD, we have learned that the file /awips/fxa/data/gribModelsNWSO\_ed1.txt needs a minor change. The value in the 2nd column ("WSR88D2" ) for id 152 should say "QPE" like the info for id 154 and 155. This file is only used by the GRIBDecoder. To enable this change, you only need to restart the GRIB decoder - localization is not needed. **(DR 18201)**

**Problem. Historical Data Browser: System Crashes when saving the Station.**

While executing 'Historical Data Browser Test Plan.' The system crashes on section 2.7 (Save List of stations) step#4. **(DR 18149)**

**Problem. DE: Add header patterns to acquire OPC/TAFB grids.**

Previously, when the OPC/TAFB grids were activated over the SBN on 10/17/2006, the acqserver dropped them because the WMO header patterns were missing from acq\_categories.txt. **(DR 18114)**

**Problem. MHS: Start\_msg\_test\_ncf script need to be updated to reference SMTP.**

Started the test message utility, mh1-tncf, as root type:

```
cd /awips/ops/bin <cr>
start_msg_test_ncf [-m0] <cr>
```

Received "Failed msg\_test\_config" error message.

Validated the script "start\_msg\_test\_ncf"; have encountered that the code is still referenced to X400 instead SMTP. This was fixed. **(DR 17792)**

**Problem. Historical Data Browser unable to access data server.**

Previously, the Historical Data Browser (HDB) application was unable to retrieve data from the historical data server through the AWIPS firewall. **(DR 17606)**

**Problem. Clean up recent changes to TextTemplate.html (Ref OB7.2 DRs 16601, 16622 and 16735).**

An editorial review of recent changes to TextTemplate.html revealed several typos and formatting issues that should be cleaned up. **(DR 17573)**

**Problem. GFS PIT fix.**

GFSmodelSkewtDesign.txt need to be fixed in order to display. **(DR 17587)**

**Problem. Remove hard-coded variables for GRIB2\_DIR and NCEP\_DIR in Makefile.commonConfig.**

The SOP established by the SwEG is to set all freeware/COTS variables in the build environment outside of the AWIPS code. This permits flexibility in regard to the location on disk to store the freeware on the build machines. For example, there is a freeware upgrade in degrib in OB7.2 to version 1.76. The OB7.1 version of degrib is 1.67. because we are building 7.1 and 7.2 on the same machine, the degrib variable GRIB2\_DIR cannot be hard-coded to one location (as it currently is in AC's Makefile.commonConfig). This was accomplished. **(DR 17304)**

**Problem. verifysshkeys.sh does not work (Ref OB7.1 DR 17093).**

In OB7.1, openssh will be uninstalled, and the native ssh will be used. The script verifysshkeys.sh needs to account for this change. This was accomplished. **(DR 17184)**