AWIPS OB7.1Release Notes. Section III, Current Problems, Oct. 6, 2006

Raytheon

AWIPS OB7.1: Final Release Notes

Section III – Current Problems to be Fixed in Future Release

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Contract DG133W-05-CQ-1067; DCN AWP.RLSN-OB7.1

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1.0 RELEASE OB7.1

Problem. Start D-2D does not work from awips pulldown menu. (DR 18059)

The initial start d2d button does work, but the one which opens after you click on the AWIPS start menu does not. This one allows the sites to launch D-2D with other localizations then their default. This functionality was broken by DR 17964, the change of the POSTGRESDIR env variable to /usr. This caused /usr/bin to appear in the PATH env variable before /usr/local/tcltk. This in turn causes the start-wfo script to run the RH wish instead of the /usr/local wish, which manifests the problem.

Problem. Message handling not starting up correctly after down for an hour. (DR 18046)

Test case OB7.1-Baseline_MHSMSGEXP_1.3.4.11_VE-1, step 16 fails. Message handling was down for an hour. Upon startup, queued mesages should be discarded. During this test, the log shows message handling starting up, but no messages are shown as discarded. The error log on ds1-tbdw (/awips/ops/logs/ds1-tbdw/mcError.log), shows:

> Fri Sep 29 00:25:45.532516 HOST: ds1-tbdw PID: 14180: 1 362638ms
>
> ERROR-Severity(critical), Type(error), MSG_Num(26), MSG_Set(90)
>
> Failed load config file /awips/ops/data/mhs/x400rd.cfg
>
> Fri Sep 29 00:26:15.572492 HOST: ds1-tbdw PID: 14186: 1 392678ms
>
> ERROR-Severity(critical), Type(error), MSG_Num(26), MSG_Set(90)
>
> Failed load config file /awips/ops/data/mhs/x400rd.cfg
>
> Could be related to failover.

Problem. Message request server log did not update during SBN WAN backup test. (DR 18050)

Test case OB7.1-Baseline_SBNBKWAN_1.3.4.12_VE-1, steps 4, 8,9,10 and 11 fail.

The msgreq_server.log file failed to update (step 4) while running the SBN WAN backup test. NOAAPORT and NMC SBN data were disabled during this test. The ms1-tncf:/data/logs/mhs/logs/Products/ms1-tncf/msgreq_svr.log file should have updated. Products sent from the NCF to "ALL" are logged in this log file.

Additionally, steps 8-11 failed. The product logs in these steps did not update with the appropriate products.

Problem. Logging of products sent from TNCF to NWSTG via TCP not working. (DR 18043)

Test case OB7.1-Baseline_Default Addressing_1.3.4.8_VE-1, step 2 and 10 fail. Logging of products sent from TNCF to NWSTG via TCP is not working. The comm_svr-mhs4.log on cs2-tncf in /data_cs2/logs/Products/cs2-tncf/comm_svr/ has not updated since 9/12/06.

Problem. LDAD: RRS data that are stored in the text database are not current data (DR 18041)

The RRS data that are stored in the text database are not the current data.

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Problem. LDAD: LDAD: Unable to view text products via LDAD BBS server. (DR 18036)

BBServer_1.11.1.17_v2

Unable to view LDAD BBS text products using modem connection for LDAD server.

Problem. LDAD: Unable to perform Fax Capability. (DR 18036)

FaxCapability_1.11.1.12_v2

Tester logged into a text workstation and attempted to manually fax a Zone Forecast Product. An error message returned stating (Can't establish authenticity).

Problem. LDAD: Unable to retrieve HANDAR555 data. (DR 18033)

Handar555_1.11.1.11_v2

The tester logged a D2D workstation to perform an automatic request of HANDAR555 data. After logging into the LDAD server to retrieve the data using the command (ll -ltr *SNMC*), the error message (NO MATCH) was received.

Problem. Unable to verify VDOT.DAT data. (DR 18031)

Mesonet Backup 1.11.1.13_V2

Test case demonstrates the ability to add mesonet data types to be ingested and disseminated through the LDAD subsystem.

Unable to verify vdot.dat data is being processed through D2D.

Problem. Unable to access (EMDS) application. (DR 18029)

(Displaying Text and Graphics Products LDAD 1.11.1.14 V2)

Unable to access Emergency Manager Decision Support(EMDS) Appplication.

Possible fire wall issue.

ProbeFunction_1.11.1.16_v2

Tester is uable to access (EMDS) application on pc terminal in the server area. Possible IP Address issue.

(LDAD Web Dissemination Software 1.11.1.15_V2) Unable to access Emergency Manager Decision Support (EMDS) application. Possible fire wall issue.

Problem. LDAD: The ingested IFLOWS and ALERT data are old data. (DR 18007)

From the Obs menu of the D2D, select 1 hr precip (or 3 hr precip) from the Local Data precip plots submenu, the ingested IFLOWS and ALERT data are old data on 08-FEB-2006.

Problem. LDAD: The QC data are not displayed on D2D. (DR 18006)

From the Obs menu of the D2D, select qc plot from the Other Plots submenu in the Local Data list, the QC data does not exist.

Problem. LDAD: The Alaska profiler data is not displayed on D2D. (DR 18004)

On the D2D, selected UpperAir, AK Boundary-layer time-height, and any of the three sites, the Alaska profilerdata is NOT displayed on the D2D.

Problem. MHS and x400 processes failed after dsswap restore; failover. (DR 18001)

The dsswap package was restored to DS1 after a failover. It was found that the following two processes were not running:

Problem. diss_stats does not work on TNCF - NWWS Dissemination statistics. (DR 17999)

When executing the Baseline_HazCollect_1.7.1.1 test case, step #2, execute the "diss_stats" command on cs2-tncf did not work. The error message was "failed to attach to dissemination shared memory key: 2131".

Problem. GFE: The PRISM CLIMO grids on the Grid Manager sometime cannot be selected. (DR 17988)

The PRISM CLIMO grids on the grid manager sometime cannot be selected . The user uses the arrow key left and right to step through the precipitation (tp) grid.

Problem. Failure on SBN4Channel test case. (DR 17974)

Test steps 3 and 6 of test case OB7.1-Baseline_SBN4Channel_1.3.5.9 fail. There are no TICF products in the cpsbn1-tbw4 /data/co/logs/Products/cpsbn1-tbw4/sbn_proc3/mcProduct.log or in the Archive files. No current imagery is available on the Satellite -> 4 Sat Composite menu. The last available image was from Sept 7th.

Problem. Failure on MHSRQSReply test case. (DR 17973)

On TBDW, MHS is running on DS1. There are multiple MhsServers and MhsRequest servers running on TBDW. Run ps -ef|grep Mhs to check. On TBDR, MHS is running on DX1. There is a single MhsServer and a single MhsRequestServer.

Problem. Wx tool crashes GFE. (DR 17963)

SLC and GJT are experiencing GFE "lockups" with "weather from pop" type tools. GFE also locks up with the RemoveWX tool. Site had to shutdown the computer or log in remotely and kill the GFE process to restart GFE. Sometimes these problems seem related to using an edit area when running the Wx_from_Pop tools, but not always and not so much with the removewx tool. Forecaters have reported that, "If I run the tool without an edit area on a new grid first, then I can use edit areas with the tool". IForecaster at GJT report many tools are "slow" with 7.1 but SLC is fine except for the weather tools.

SLC started seeing a new type of error pop up the last few days as I have been experimenting. SLC called GJT and they were able to repeat a slight variation of this error. If "coverage" and "stratiform" is chosen a python error window pops up with messages like:

Bad Weather Key in storeNumericGrid: Areas:S:-::

If you use the Wx "Set Pickup Value" GUI - Areas is not associated at all with precipitation weather. Areas is for non-precipitation weather like F or BS.

SLC has also seen these errors pop up in the python window:

Bad Weather Key in storeNumericGrid: Iso:R:-::

Additionally, remove obsolete files from IFPS-OB7.2 so they are not delivered in the release tar.

gfe/OB7.2a_RHE3_GFESuite_CORE.tgz

gfeTopo/OB7.2a_GFESuite_TOPO.tgz

gfeClimo/OB7.2a_GFESuite_CLIMO.tgz

gfeMaps/OB7.2a_GFESuite_MAPS.tgz

Problem. NWWSSchedule inserting additional new line between each line of text. (DR 17961)

NWWSSchedule is inserting an additional new line between each line of text in products transmitted to NWWS. The result is that products transmitted by OB6 are single spaced while products transmitted by OB7.1 are double spaced. Because the double spaced products transmitted from an OB7.1 NWWS uplink are different than the single spaced products transmitted from an OB6.1 NWWS uplink, this causes 2 versions of each product to be transmitted on the NWWS. A rough analysis is that this may be a problem with the device driver for /dev/ttyn1h rather than a problem with NWWSSchedule. The NWWSSchedule log files from OB6 and OB7.1 indicate that the products are identical. However each line in the product terminates with a [\r][\r][\n] sequence. The [\r] is a carriage return and the [\n] is a new line. It appears that OB6 ignores the [\r] while OB7.1 treats the [\r] as a new line.

Problem. setupAwipsUser.sh has obsolete reference to openssh (DR 17960)

When running setupAwipsUser.sh, an error appears on line 696. It cannot find the /usr/local/openssh/bin/ssh-keygen executable. This has moved in OB7.1 to /usr/bin/ssh-keygen. The net result is the user does not have passwordless ssh on the system. Running VerifySSHkeys.sh would be a workaround to fix the new user's account for passwordless ssh.

Problem. fxa cron job 'startCtrlCpu.sh' errs and cron daemon launches sendmail process. (DR 17947)

By default, when a cron job errs, the cron daemon will attempt to send email to the user who owns the offending cron job. The fxa cron job 'startCtrlCpu.sh' runs six times an hour, checks to see if ctrlCpu process is running, and if not, will start it up. Normally, ctrlCpu is started up via cron just after system reboot. The problem here is that when the cron job 'startCtrlCpu.sh' launches the ctrlCpu process, it will send to stdout/stderr a string containing the process id of ctrlCpu. The cron daemon interprets this as stderr and will then attempt to send email to fxa. This results in a defunct process 'startCtrlCpu.sh' and a hung sendmail process owned by fxa --- this can be seen on virtaully all internal hosts on OB7.1 and OB7.2 systems by doing 'ps -ef | grep sendmail' (dx's, px's, lx's, xt's). This should be fixed by changing the fxa cron job 'startCtrlCpu.sh' so that it outputs stderr/stdout to /dev/null --- this proposed fix has been tested successfully on NHDA.

Problem. Test part d of DCS 3296 (OPC/TAFB) with live data when data are available. (DR 17945)

In OB7.1, part d of DCS 3296 (OPC/TAFB) was tested with test data. Everything looked good with the test data. Complete testing in OB7.2 when live data are available.

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Problem. Add Polar Vis and IR Imagery to data monitor. (DR 17941)

Polar Vis and IR imagery was added in OB7.1. There are no entries for this new data in the data monitor.

Problem. Red banners take focus away from current task; KDE; mouse; Guardian (Ref OB7.2 DR 17911) (DR 17939)

It was discovered that when new windows, dialogs, or GUIs pop-up, the focus is taken away from the current task. For example: if a forecaster is editing a warning and a red banner message pops-up, the focus is given to the red banner and the forecaster can no longer edit the warning without clicking the Text Editor.

It was found that this is a KDE setting that was delivered with RHE4 in OB7.1. The fix for this is to edit the file /home//.kde/share/config/kwinrc:

Change from:

> FocusPolicy=FocusFollowsMouse

Change to:

> FocusPolicy=FocusUnderMouse

After this change, the red banner dialogs will still pop-up in the foreground, but will not take the focus away from the current task.

Note that this is also a problem in OB7.2 because the KDE settings are the same; so for example, this problem will also be seen with Guardian and any other app in OB7.2. See DR 17911.

Problem. IFPS/SVCBU is not working with SMTP message handling. (DR 17915)

The import and export IFPS/SVCBU functions are not working when the message handling is set to the SMTP (tbdw:SMTP and ancf:SMTP). The service back sent the information to the ancf but ancf never recieved it. The message handling server at mh1-ancf is up and running.

Problem. OCONUS file installation. (DR 17912)

OCONUS data files are handled outside of the baseline, due to site specific customizations. So for OB7.1, these files need to be installed seperately, and more importantly, whatever changes are in these files need to be merged with the OCONUS sites existing files.

Problem. SLC right display distorted. (DR 17900)

SLC reported that sometimes when the LX workstations waking up from screensaver, the whole screen on the right display is distorted. The user has to log out and log in again to get it recovered.

Workaround. The site has disabled screensaver for now as a workaround.

Problem. Radar cross section scaling error. (DR 17846)

Timm Decker observed that when one uses the Volume Browser to display a cross section of radial velocity, contour lines are 2x the value of the corresponding image rendering. Timm believes that the image version is correct.

This probably represents an error in the contour style rules.

Problem. acq_wmo_parms.sbn.local overwritten during install. (DR 17857)

The local file acq_wmo_parms.sbn.local is being released and installed in OB7.1. This wipes out the customizations that the sites perform to this file for local ingest.

Problem. ingest.crontab.dx1 has incorrectly formatted line. (DR 17830)

Brad Scalio found that line 8 of the ingest.crontab.dx1 file is incorrectly formatted. It has a an asterisk (*) instead of a pound symbol (#) to start a comment line.

Problem. need to remove AWIPS free software delivered in OB6. (DR 17813)

/usr/local on dx1-nmtw and dx1-nmtr contains a couple

OB6 freeware packages which should have been removed when the OB7.1 freeware RPMs were installed. We have seen this on dx1 only, but all 7.1 linux hosts should be checked and all out-dated freeware removed from /usr/local.

> The OB6 packages in /usr/local that need to be removed:
>
> postgresql-7.4.7
>
> postgresql (sym link)
>
> perl5.8.5
>
> Do NOT remove the "perl" directory which simply
>
> contains the link perl/bin/perl -> /usr/bin/perl. We need this link.
>
> Please assign this DR to Raytheon's Env Team. Must be fixed
>
> in an OB7.1 installation script.

Problem. MOS data available but IFPS not storing MOS data in ifp database (Ref OB7.2 DR 17823). (DR 17772)

IFPS not storing MOS data in ifp database.

Problem. IFPS: The progress bar is not displays during import and export data. (DR 17753)

When exporting CCC configuration file and grid data to the central server the progress bar is not appear to show the progress of the export configuration file (Where CCC is sthe 3 letter ID of the site you are using). However, the export_config log file was created by the ifps with no errors found. The progress bar for the import grids data is also not working.

Problem. px3 and px4 should be added in the CPU monitor. (DR 17747)

The CPU monitor for px3 and px4 should be added to monitor/awips.config when the test bed is in the TBW4.

Problem. RFC Archiver: unable to open files under flat file viewer (ff_oper_view). (DR 17731)

This test case is run on RFC as ax. From the arcmenu we open the flat file viewer ff_oper_view (option 2), the GUI open successfully; however, 9 out of the 10 files in the ff_oper_view fail to

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open. One of the problems is that Aviword cannot load the font "Times New Roman". Another problem is that there is a DCOP communications error, could not read network connection list.

Problem. NCF: Filename specification update for NESDIS interface to NCF. (DR 17728)

The script that processes NESDIS files at the NCF, ck_nesdis_files, must be modified to use pattern matching instead of exact file names due to a new product requirement. Polar products cannot have the same name because up to three of them can arrive within seconds on the server, which is not sufficient to guarantee that the previous one is processed. This would result in lost data. The NESDIS solution is to tack on a timestamp at the end of filename to guarantee that each is unique. Each product must be identified to the processing application . Since it is not designed to handle wildcards, this solution will not work.

Problem. Files subject to file lock problems. (DR 17723)

> awips_common/src/util_d2d/FileLock.c: logBug << "fcntl(F_GETLK) error" << std::endl;
>
> awips_common/src/util_d2d/FileLock.c: if (fcntl(fd, F_GETLK, &lock) < 0)
>
> awips_common/src/util_d2d/fileLock.C: logBug << "fcntl(F_GETLK) error" << std::endl;
>
> awips_common/src/util_d2d/fileLock.C: if (fcntl(fd, F_GETLK, &lock) < 0)
>
> awips_common/src/logStream/LogStream.C:#include // open(), fcntl()
>
> awips_common/src/logStream/LogStream.C: if (_fd == -1 || fcntl(_fd, F_SETLKW, &_theLock) == -1)
>
> awips_common/src/logStream/LogStream.C: if (fcntl(_fd, F_SETLKW, &_theLock) == -1)
>
> awips_common/src/threadIPC/DataSocket.C: if ((flags = fcntl(_sd, F_GETFL)) == -1)
>
> awips_common/src/threadIPC/DataSocket.C: logBug << "fcntl(get) failed in DataSocket::DataSocket()"
>
> awips_common/src/threadIPC/DataSocket.C: if (fcntl(_sd, F_SETFL, flags) == -1)
>
> awips_common/src/threadIPC/DataSocket.C: logBug << "fcntl(set) failed in DataSocket::DataSocket()"
>
> awips_common/src/threadIPC/AcceptSocket.C:#include // fcntl()
>
> awips_common/src/util_d2d/FileLock.c: if (fcntl (fd, F_GETLK, &lock) < 0)
>
> awips_common/src/util_d2d/FileLock.c: return fcntl (fd, cmd, &lock);
>
> awips_common/src/util_d2d/fileLock.C: if (fcntl (fd, F_GETLK, &lock) < 0)
>
> awips_common/src/util_d2d/fileLock.C: return fcntl (fd, cmd, &lock);
>
> D-2D/src/tclFXA/AppMgr.C: if ((flags = fcntl(0, F_GETFL, 0)) == -1)
>
> D-2D/src/tclFXA/AppMgr.C: if (fcntl(0, F_SETFL, flags) == -1)
>
> D-2D/src/tclFXA/App.C: if ((flags = fcntl(fd, F_GETFL, 0)) == -1)
>
> D-2D/src/tclFXA/App.C: if (fcntl(fd, F_SETFL, flags) == -1)

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D-2D/src/portUtils/AsyncPort.C:// fcntl() is invoked using the F_GETFL/F_SETFL flags rather than F_GETFD/

D-2D/src/portUtils/AsyncPort.

ldad/src/suaIngest/LdaPort.C

ldad/src/gateway/XYZ_modem/rhsb.c

Added to OB7.2 per RA-055

Problem. New Chat Server Font Size - Save as Theme, Default. (DR 17721)

During regression testing of the Chat Server, I noticed that the following on the font size:

R= requirement

R42 - No button available for font size theme - should a button be available for the default font size "theme"

R43 - currently I can't save the font size as a theme. The selected font size is remembered when the user returns to the app after logoff.

R47 - after each login, the remembered font size is displayed, is this considered the default font size.

Problem. dx3 and dx4apps scripts have incorrect wordage. (DR 17719)

The dx3apps and dx4apps scripts print out "Preprocessor server swap complete" instead of "Data server swap complete". Minor wording correction needed on anything that output Preprocessor in these scripts Radar OTR failed on TBW4.

Problem. Radar OTR failed on TBW4. (DR 17702)

Sent out an OTR on tbw4 by using pacg. The ORPGReqMgr shown "ll -> signOn failed". The DialServer log shown "OneTimeRequestList.C PROBLEM: PRR is for Product ll (sequence # 0) which is not on the OTR list.

Problem. Archive data can't select date to store. (DR 17697)

Bring up the archive data GUI and slect a date to store. An error was shown "Please Select a Date" " Dates selected stopping the archive"

Problem. Alert Request didn't generated the Boxbits on TBDW. (DR 17676)

Radar Alert request didn't generated the Boxbits on ORPG log file and didn't receive alrt on TBDW.

Problem. The fax modem and EMDS server need to be configured for LDAD on all test platforms. (DR 17673)

The EMDS server cannot connect with ls1 - which is necessary for acquiring data for Web Dissemination testing. Also, fax modem needs to be configured on TBDW and TBW4. The hylafax.Setup was executed on TBW3 but the fax capability continues to fail on that platform.

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Problem. RSA Merge - Cannot add user defined fixed range rings. (DR 17670)

See step 6 of the test plan for the RSA functionality: http://www-sdd.fsl.noaa.gov/~fxa/test_plans/build_ob7/tc_3240.html

Could not create user defined fixed range rings when following test plan steps. Could very well be user error.

Problem. RSA Merge - Volume Browser inventory time is incorrect for radar source. (DR 17669)

See step 5 of the test plan for the RSA functionality: http://www-sdd.fsl.noaa.gov/~fxa/test_plans/build_ob7/tc_3240.html

The inventory time in the volume browser was incorrect when trying to display cross section data for a second radar. The inventory time for the first radar was old. When I selected Source --> Other --> Radar, Fields --> Other --> Reflectivity, Planes --> Specified --> LineD, the inventory time under Times for the Product Selection List in the Volume Browser was correct. When I set my Home location to another radar with current data, the inventory time remained from the first radar. The inventory time should have changed to that of the currently selected radar. The data displayed was correct.

Problem. Volume browser won't launch when reverting back from using new RSA feature (DR 17646)

The volume browser will fail to launch when relocalizing after using a new RSA feature that allows the site to use ft and ft AGL in the volume browser height scales. RSA functionaltiy was merged into OB7.1 in DCS 3240. The ability to use ft and ft AGL in the volume browser scale was one of the new features merged in. This feature will most likely only be rarely used. This new function can be accessed by using a custom vbVcInfo.txt file in /data/fxa/customFiles. The site then localizes the workstation with the -grids flag. If the site then removes the /data/fxa/customFiles/vbVcInfo.txt files and relocalizes to go back to the original state, an empty link is left behind in ~fxa/data/localizationDataSets/xxx/

This is the link:

    lx5-tbdw{vadad}56: pwd

    /awips/fxa/data/localizationDataSets/STO/165.92.17.163:0.0

    lx5-tbdw{fxa}57: ll

    total 12

    -rw-rw-r-- 1 vadad fxalpha 2 Jun 26 22:04 timeSeries.pointLabel

    -rw-rw-r-- 1 vadad fxalpha 2 Jun 26 22:04 timeHeightDir.txt

    lrwxrwxrwx 1 vadad fxalpha 63 Jun 26 23:16 crossSectionVC.txt -> /awips/fxa/data/localizationDataSets/STO/crossSectionVC_13_.txt

The presence of this empty link causes a localization error that prevents the volume browser from launching.

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Problem. WarnGen: Issued time or TZ error in MND header. (DR 17578)

After clicking on enter on the Header Block window in the text workstation, a template warning window appears saying "Issued time or TZ error in MND header. The text message contains AKDT instead of the expected ADT."

The TSR group agreed to downgrade this DR to a minor DR on 7/26/06. Moved to HELD state at that time. Additionally, there is no change to the text product required for the workaround. The issue is with the error checking. Pressing OK when the template warning window appears, and continue to use WarnGen as normal. The product contains "AKDT".

Problem. Problem with compressed contour lines. (DR 17629)

We can't seem to reliably reproduce the problem, but it has happened at least 4 times in the last day and half. See image below. No one remembers seeing it in previous builds. It is not workstation dependent, nor time specific. It seems to be more common with 500 mb heights perhaps GFS40.

Jim Fluke: Tried to get image from NCF. Asked for ticket 254053. Got a ticked with this number, but its about an old hardware problem - 'DX1 does not "see" the Raid (adapter1)'

Problem. Monitor web page need to add PX2 PACKAGE status. (DR 17622)

"PX2 PACKAGE" status need to add on monitor web page since ldad servers running on px2.

Problem. purgeProcess -commit was not killed after failover back. (DR 17611)

purgeProcess -commit was not killed on DX2 after failover back from dx2 to dx1.

Problem. AvnFPS: Error Msg Displays when using Redo/Undo Text Editor (Ref DR_17589) (DR 17586)

On LX3-TBDW platform

During the regression test of AvnFPS 3.2 system, while using Redo/Undo functions under the Edit menu on the Text Editor window an error message "Program bug - please report. Details in the log file." is displayed.

Problem. Radar and Ldad servers need to remove from cron in DS services. (DR 17580)

Radar and ldad relative cron need to remove from DS.

Problem. RiverPro VTEC UGC expire time can be in past (OB7.2 - merge of 17564). (DR 17565)

For VTEC coding by RiverPro, the UGC expire time at the beginning of each segment can be in the past if the fall below flood time is in the past, or more typically, it can be less than an hour in the future, if the fall below time is less than an hour from the current time. The expire time should not be less than an hour or in the past, unless the product is a CANcel or EXPire.

Problem. Remove references to obsolete environment variables in ifps-main.env file. (DR 17544)

Remove references to obsolete variables in export statement in /awips/adapt/ifps/bin/hp/ifps-main.env. The environment variables IFPS_WS, LIBHELPPATH, PNG_DIR, PEND_DIR, PYTHONHOME are still included in the export statement.

Problem. dx2apps need to modify for $SITE_TYPE option (WFO/RFC) (Ref. OB7.1 DR 17511). (DR 17529)

The startIngest.dx2 was not run on dx2-tbdr when bring up the dx2apps. Because the $SITE_TYPE check wfo".

Problem. PG_INSTALL points to wrong directory (Ref OB7.1 DR 16982). (DR 17525)

In postgresenv.csh and postgresenv.sh PG_INSTALL points to /usr/local/pgsql instead of /usr/bin.

Problem. IFPS: AER host need to be pointed to dx4f (Ref. OB7.1 DR 17514). (DR 17516)

The AER (svcbu multi domain) HOST variables in ifps-ccc.env file need to be changed from dx2f to dx4f in TBW4 platform.

Problem. Chat Server: Multiple sessions with same user ID generate auto logout of second session. (DR 17496)

When a user has a session logged in to the chat server client, and attempts to start another session on the same workstation, the second session initially appears, but then is automatically logged out. The original session continues to be logged in without problems.

Problem. Chat Server date/time stamp issues. (DR 17495)

When using the private conversation mode of the chat server client, the originator does not see the date/time of the messages in the display box.

When using public and private sessions, the month and day do not have a leading zero fill.

Problem. NWR Editor: Make Header Default does not work. (DR 17483)

This problem occurs under the Options menu of NWR Editor Window. When Make Header Default is selected the message displayed at the bottom of the window says: Unsuccessful, default message attributes Not changed.

If it works the message should say: Successful default message attributes changed.

Problem. VWP dataset key need to modify (reference DCS 3251). (DR 17467)

The purginfo.txt for the VWP dataset key need to change from 82 to 75.

Problem. Remove /D-2D/src/textWS/textQC.config from the OB7.1 workset. (DR 17466)

From Joe Wakefield:

I find that there are two copies of textQC.config, one in textWS and the other in localization/nationalData. Based on the dates, it appears that the file was initially in textWS but

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then moved about three years ago. The textWS version should be removed from the workset to avoid future confusion.

Problem. AvnFPS: Flight category feedback (Ref. OB7.2 DR 17473). (DR 17472)

Problem. RMR log file need to generate every submit request. (DR 17457)

The RMR log file was not updated for every submit request. Only the first request info was added into log.

Problem. Timeseries group feature crashes when over 30 pages in group. (DR 17443)

The Timeseries graph application allows the user to predefine groups of data for plotting. If a given predefined group has more than 30 page (i.e screen pages), then the program will crash.

The program has been modified to ignore any requests for plots beyond the 30 page limit.

Problem. Products not successfully ingested by receive site. (Ref OB7.1 DR 17438). (DR 17439)

It was found that text products where not able to be sent from system to system after the OB7.1 build. I found that MHS successfully sent it from one system to the other, but it got lost on the receive system somewhere. It was found that the variable CO_HOST_NAME in /etc/rc.config.d/AWIPS needs to be chanced from dx1f to dx3f. Many of the processes have been moved from dx1f to dx3f and that is where the system needs to send this product to be fully ingested and stored.

Problem. IFPS log files not purging. (DR 17431)

Mark Mathewson and I were looking on tbw3 and noticed that it looked like some ifps logs aren't getting purged. Maybe this is an artifact of moving processes around and these are orphaned, but it does look like some of the logs are as recent as yesterday. How many days of logs should be available? What should things look like normally?ut it does look like some of the logs are as recent as yesterday. How many days of logs should be available? What should things look like normally? /awips/ifps/primary/bin/clean_up.sh is not running. It should be running from a cron job.

Problem. New fxa cron job required (ref OB7.1 DR 16931). (DR 17394)

New application implemented to replace retired IFPS program. It requires that it run periodically, several times per hour, on a machine where /data/adapt/avnfps/grids filesystem is visible, px2f is preferable.

Problem. ifps cron restarted ifpServer during GFE install. (DR 17377)

During the GFE install, the script kills the ifpServer, and then restarts it after the files have been installed. However, during the last install, the half hourly ifps cron job restarted the ifpServer before GFE was done installing its files, and then displayed an error (but continued the install) when it could not start an ifpServer since one was now running. In talking with Mark Mathewson, he didn't like the idea that there was an ifps cron which tried to keep the ifpServer

running, for cases like an install, or if the site brings it down for whatever reason, and would like it removed from the cron.

Problem. CP_Reconfigure need to update due to radar* move from ds1 to dx2 (Ref. OB7.1 DR 17366). (DR 17373)

The CP_Reconfigure menu option 3 and 7 need to modified due to radar function move from ds1 to dx2..the syteSwapCp.3 file need to modify.

Problem. Problems sending messages to NWWS (Ref. OB7.1 DR 17361). (DR 17372)

Various applications are unable to send their messages to the NWWS Scheduler and therefore the associated NWWS Simulator PC. Testing has not confirmed where the problem exists - the messages seem to be received by MHS from the various apps but they are not handed off to the NWWSProduct and then NWWS Scheduler processes.

Problem. AvnFPS: Save stats in tabular form does not work. (DR 17308)

Attempts to save statistical data from Wind Rose GUI results in an exception.

Problem. Improve the performance of the DMD product display when the volume scan changes (Ref OB7.1 DR 16856). (DR 17297)

Sometimes the 0.5 degree elevation takes so long to be updated that it does not appear to display.

Problem. AvnFPS: Bug fixes/tweaking of flight category monitoring. (DR 17260)

Based on feedback/testing under ATAN 764 of AvnFPS3.2 (OB7.1) from Fairbanks, AK, some adjustments are needed to flight category monitoring.

Problem. New files created for DCS_3328 not populated in Makefile (Ref OB7.1 DR 17226). (DR 17237)

The following new files created for DCS_3328 are not populated in Makefile: ingest.crontab.dx3, ingest.crontab.dx4, startIngest.dx3, startIngest.dx4, stopIngest.dx3, stopIngest.dx4

Problem. AvnFPS:TAF syntax check allows FM group to begin at the start of the TAF valid time. (DR 17219)

The following TAF

    KCCC 211135Z 211212 ...
        FM1200 ...

should be flagged for invalid FM time.

Problem. ORPGCommsMgr: potential mishandling of TCM header. (DR 17179)

ORPGCommsMgr: potential mishandling of TCM header.

Problem. IFPS:Changes for move from DX2 to DX4 (Ref. OB7.1 DR 17156). (DR 17157)

This is a placeholder DR for IFPS changes from DX2 to DX4.

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Problem. FFMP: Using "IngestFilter" hydro-database table for VGBs exclusion. (DR 17004)

At WFO SEW, there was a complaint about too many gages were shown in the FFMP Basin/County Table display. These gages included some river gages and stream stations which did not report precipitation data, or the rain gauges only reported the precipitation data at long durations at which forecasters don't care. In OB6, the local office could edit/maintain a list of gages which they like to remove for FFMP application inclusion in the file called "$FXA_HOME/data/gageRemoved.txt". But if there are too many gages they want to exclude for FFMP, they prefer to not to manually add those gages in the file. So after discussing with OHD group, we decided to use the "IngestFilter" database table to filter out the un-desired gages (non-precipitation gages or gages recorded at long time durations). This will shorten the list of gages to be included in the FFMP application. But since the exclusion will be done upon FFMP localization, any changes made in the IngestFilter database table in the IHFS database would be reflected into FFMP after a new FFMP localization is made. This DR should be for OB7.2.

Problem. AF 5 Change Ft. Meade MGS references to Hauppauge. (DR 16983)

The primary master ground station moved from Ft. Meade to Hauppauge. The AF software needs to be updated so all references to Ft. Meade are changed to Hauppauge to avoid confusion.

Problem. LDAD communication between ls1 and px2f doesn't work. (AWIPS_HELD_DR 4796563)

Any alarm with sound or alert do not produce sound on lx boxes. Checked kmix as root, but still no sound. No SCAN alarm sounds. 12Planet produces sound on some machines. XT Bell products which are supposed to have alarm bell have no sound. NCF performed PreSession Default fix and node fixes for dsp. Still not working correctly.

Problem. dx3/4apps scripts need to kill ctrlCpu and ingProcMon.pl. (AWIPS_HELD_DR 4764651)

In the dx3apps and dx4apps scripts, the processes run by cron, ctrlCpu and ingProcMon.pl, need to be killed in the stop phase. Look at the dx1apps for implementation.

2.0 RELEASE OB6

2.1 OB6.1

Problem. RAOB T and Td Values Based on BUFR Off Relative to TTAA Text Values. (DR 17995)

Melbourne reports that BUFR RAOB T and Td values plotted in the Skew-T do not match the values in the TTAA text. It is not known whether the values are being *en*coded wrong in the BUFR messages, or the values are being *de*coded wrong by the RAOB BUFR decoder, or the decoded BUFR values are being plotted wrong.

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Problem. Unable to Issue FLW/FLS in WarnGen. (DR 17987)

RLX had a case on September 1 when neither the Areal Flood Warning (FLW) nor Areal Flood Advisory (FLS) could be selected from the WarnGen product list. When selected, WarnGen would bounce back to the default SVR product. As an extreme workaround in the midst of severe weather, the SST purged all FLW and FLS products from the fxatext database. Because VTEC is not yet implemented, WarnGen does some complex parsing of fxatext hydrologic products. Jim Ramer thinks the cause of the error may be an oddly formated FLW or FLS product stored in the RLX fxatext database. Jim could not replicate the problem using the RLX products that seemed to cause the error. This issue may be difficult to resolve. Jim suggested creating a D2D/WarnGen utility to enable WFOs to work around the problem and gather AWIPS evidence to help diagnose the issue further.

The implementation of hydro VTEC (currently scheduled for September 2007) should resolve the problem since WarnGen will use VTEC to peruse the hydro products in fxatext. A related issue (WarnGen parsing of fxatext hydro products) is DR 16671 concerning WarnGen failures in selecting hydro followup products.

Problem. HazCollect: Products are not formatted correctly for NWWS. (DR 17831)

From Brian Rapp/Mike Moss:

During the HazCollect OAT (July 19, 2006), we noticed ADRMD message was missing and/or . Dan Lam of CSC was contacted to find out what he received from uplink sites. Dan said for ADRMD, NWWS received 4 copies (1 each from BOX, CTP, ILN and NCF). All uplink sites have identical message format except for the NCF.

Messages from all the uplink sites are missing and/or

(BOX_ADRMD.txt, CTP_ADRMD.txt, ILN_ADRMD.txt). The one from the NCF is

formatted correctly (NCF_ADRMD.txt). All the uplink sites must uplink NWEM products with .

Problem ScatterometerWinds.html was not found; AWIPS System Monitor. (DR 17789)

Since the RAX will not be upgraded to RHEL3u4. The OB6 software for WFOA, AF, and the OB6 freeware will not be installed on the RAX. As a result the RAX will be out of sync with the rest of the AWIPS Baseline.

It was found that OB6 and OB7 systems can not reach the ScatterometerWinds.html from the AWIPS System Monitor. To replicate this error open the AWIPS System Monitor and click in the following: Point --> Scatterometer Winds information page (pin).

Problem. SCAN Cell Table rank: need toggle. (DR 17783)

Currently, the direction in which the SCAN Cell Table ranks is dependent upon the attribute. For example: ranking according to the storm cell atrtribute dbzHt is ascending (based on the config file). We need to make it so the direction of ranking will toggle. 1st click for rerank means use the config direction. 2nd click means reverse what was used previoisly. 3rd click, - again, reverse what was used previously. This was a suggested enhancement from the field.

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Problem. The Text WarnGen Window will not pop up on AFCs 10th workstation in Practice/Test Mode. (Ref. TT number 256225) . (DR 17771)

The Text WarnGen Window will not pop up on AFCs 10th workstation (named lxa, xta) in Practice/Test Mode. In May, Kathleen Cole at Mike Rega~Rs suggestion adjusted the out of the box configuration for /awips/fxa/.environs.lxa-afc file from WRKWG0 to WRKWGa (although Mike actually suggested capital ~SA~T. Under this situation (WRKWGa), Test and Practice mode will work and store a WRKWGa if the FXA_WARNGEN_PRODUCT_ID in the .environs.lxa-afc file is set to WRKWGa. Both in Operational Mode and in Test Mode, the Text WarnGen window will not appear on xta. They can~Rt access the WRKWGa from a Text Window because it will automatically switch the lower case ~Sa~T to an upper case ~SA~T. If you use Mike~Rs suggestion (WRKWGA) then neither Test, Practice or Operational mode will work. If the environmental variable is set to WRKWG0 then Operational WarnGen Mode works if the FXA_WARNGEN_PRODUCT_ID in the .environs.lxa-afc file is set to WRKWG0. Neither Practice nor Test mode works. In the later two cases, you will get an error like this:

> Mismatch of Graphic & Text workstations numbers.

> Graphic workstation=lxa-afc and Text Workstation=WRKWG0

AFC will be getting an 11th workstation (lxb, xtb) soon.

Problem. The Severe Thunderstorm Warning (SVR) template has errors in it for the inclusion of the watch section. Trouble Ticket number is 255972. (DR 17756)

The baseline Severe Thunderstorm Warning (SVR) template, wwa_svr.preWWA, is missing the $ in the watch #include statements.| This also is a problem in the baseline OB7.1 templates.| The workaround is to include $ in the #include statements.

> Wrong format:
>
> ----------------
>
> #include "{CURRENT_CWA}-torWatch.txt"
>
> #include "{CURRENT_CWA}-svrWatch.txt"
>
> | Correct format:
>
> --------------------
>
> #include "${CURRENT_CWA}-torWatch.txt"
>
> #include "${CURRENT_CWA}-svrWatch.txt"

Problem. NWRWAVES: red banner message will be generated alerting the WFO of product format errors. (DR 17501)

Malformed NWS products containing extraneous double dollar sign sets ($$) will no longer crash NWRWAVES. Instead, a red banner message will be generated alerting the WFO of product format errors.

Problem. Overview product (OVR) is being assembled with an invalid CRS Message header. (DR 17500)

Overview product (OVR) is being assembled with an invalid CRS Message header.

Problem. Products that are being cancelled/expired/upgraded per VTEC coding use generic wording (not the segment wording) for the 10 minute cancellation message. (DR 17499)

Products that are being cancelled/expired/upgraded per VTEC coding use generic wording (not the segment wording) for the 10 minute cancellation message.

Problem. Numerous sites reporting awkward marine zone intro phrasing, for example "FOR IN LAKE SUPERIOR" (DR 17498)

Numerous sites reporting awkward marine zone intro phrasing, for example "FOR IN LAKE SUPERIOR"

Workaround. Extraneous phrasing can be altered to satisfy the needs of the WFO via the WorkFile.txt file.

Problem. NWRWAVES: Optional issuance time phrasing does not contain the timezone(s) resulting in a confusing message. (DR 17497)

"Optional issuance time phrasing does not contain the timezone(s) of the counties/zones in the broadcast, resulting in a confusing message".

Problem. NWRWAVES will crash with an error pointing to the inability to copy. (DR 17494)

In rare instances, NWRWAVES will crash with an error pointing to the inability to copy the file from the QUEUE to the INPUT directory.

Problem. Optional county/zone list phrasing has been cleaned up to remove extraneous whitespace. (DR 17493)

Optional county/zone list phrasing has been cleaned up to remove extraneous whitespace. This was done to reduce problems associated with expected behavior via the WordFile.txt replacement.

Problem. MRD replace does not seem to be working for some of our upgraded or downgraded/replaced VTEC hazards. (DR 17492)

"MRD replace does not seem to be working for some of our upgraded or downgraded/replaced VTEC hazards". In the case of a multiple-VTEC line containing a UPG or CAN action, there is coding flaw where the cancellation/upgrade message may not be generated by NWRWAVES.

Workaround. The missing message is used to ~Sclean up~T CRS by invoking an MRD replace to remove the upgraded/replaced/downgraded bulletin. NWR operators will have to manually remove bulletins which have been upgraded/replaced/downgraded to avoid conflicting information being broadcast on NWR.

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Problem. NWRWAVES: CRS will crash when receiving an NWRWAVES message. (DR 17491)

CRS will crash when receiving an NWRWAVES message under the following condition: The original product segment contains multiple VTEC lines and is assigned to generic message type.

Workaround. Mandatory use transmitter specific messages for products that may contain multiple VTEC lines.

Problem. NWRWAVES: the word "County" was being incorrectly appended in the NWRWAVES created county/zone list. (DR 17490)

For both zone and marine based products, the word "County" was being incorrectly appended in the NWRWAVES created county/zone list.

Problem. NWRWAVES: potential for county/zone codes to be duplicated within the CRS message header. (DR 17489)

For the overview product, as well as those products assigned to generic message type, there is the potential for county/zone codes to be duplicated within the CRS message header. Furthermore, the duplicated county/zone codes would also be re-iterated in the optional intro and repeat headline statements created by NWRWAVES.

Problem. NWRWAVES: The outbound message cannot be processed by CRS and will generate an alarm. (DR 17488)

For products assigned to generic message type, if the product contained no UGC coding (e.g. Record Event Report - RER), the outbound message generated by NWRWAVES contained a malformed LAC list. The outbound message cannot be processed by CRS and will generate an alarm.

Problem. LSR not able to retrieve Save Event products (ref. 17025) (DR 17341)

Unable to retrieve LSR events when saved with the Save Event button. No events are found when clicking on Fetch Events under Event Log tab. The work-around: the user is able to retrieve saved products when saved by clicking on the Save Event and Preview for Transmission button. The problem has been isolated as an OB6.1 issue based on running the Raytheon LSR test case on OB7.1 and OB6.0 systems successfully. This problem has been confirmed to be a result of code changes associated with DR 17025 by Tom Filiaggi.

DR reassigned from OB6.1 to OB7.1 at the TSR meeting held on 05/10/2006 - Shawn Hooper

Problem. Installation scripts and file check in. (DR 17332)

Needed a DR to check in OB6.1 installation scripts and files necessary for installation.

2.1 OB6.1.2

Problem. NWRWAVES: Incorrectly truncates products when cities end in LAT... (DR 18047)

The current NWRWAVES code strips the LAT/LON code from the bottom of warnings by looking for "LAT..." and removing subsequent data from the product.

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In the case of Little Rock, they have a city in Sharp County named Ash Flat, which is large enough to be used as the reference location for nearly every warning that affects that county.

In the reference (3rd) bullet, this "LAT..." condition is also met as you can see in the example below:

* AT 726 PM CDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A SEVERE THUNDERSTORM CAPABLE OF PRODUCING A TORNADO NEAR ASH FLAT...OR ABOUT 10 MILES SOUTHEAST OF SALEM...MOVING EAST AT 45 MPH.

As a result, everything after ASH FLAT is stripped from the warning, resulting in an incomplete product being sent to the radio.

2.1 OB6.a0

Problem. RAX: RAX inconsistent with rest of AWIPS baseline (DR 16333)

Because the RAX will not be upgraded to RHEL3u4, the OB6 software for WFOA, AF, and the OB6 freeware will not be installed on the RAX. As a result the RAX will be out of sync with the rest of the AWIPS Baseline.

2.2 OB6.a1

Problem. RHEL3u4 OB6: Screen Lock problem with LX/XT. (DR 16369)

When the user selects the screen lock icon on a LX or XT and locks the screen. When the user goes to enter their password in order to unlock the screen it fails to unlock. An authentication failed messages is seen in /var/log/messeges when this happens. The only way to unlock the screen is to kill the kde-screenlock or kill the user session.

2.3 OB6.a5

Problem. NWRWAVES Browser has to be resized after launch (launching too small). (DR 16462)

The NWRWAVES Browser has to be expanded after launching. The browser is coming up too small. Buttons are not displayed.

2.4 OB6.a6

Problem. Remove local /awips/GFESuite partition from LX's and XT's. (DR 16497)

The local /awips/GFESuite partition on the LX' and XTs are no longer used after IFPS 17.6 (i.e., DR 16426). So /dev/vg00/lvol07 should be removed.

2.5 OB6 a7

Problem. CRS CAFE directory permissions violate AWIPS Security Policy. (DR 16543)

The permissions being set for the CRS CAFE NWEM Formatter directories and executables violates AWIPS Security Policy. Currently /home/CRS/bin, /home/CRS/NWEM, /home/CRS/NWEM/*.csh, and /home/CRS/NWEM/*.tcl have permissions of 777, and they need to be 775.

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[Note: Other directories under /home/CRS may violate the policy as well. So the whole /home/CRS directory tree should be changed to 775.]

Problem. WF: Should remove use of textdbRemote from WFOA. (DR 16541)

All uses of textdbRemote should be removed fro the WFOA baseline products from the textDB. Here are details: 1. From the lx Start D2D" menu use tmcp to set PRACTICE mode. The little orange practice mode windows appear on the lx and xt.

Problem. WF handleOUP.pl should use textdb and not textdbRemote. (DR 16540)

Currently handleOUP.pl is using textdbRemote in order to access the database. There are problems with textdbRemote in OB6, and it should be using textdb instead.

2.6 OB6-P

Problem. OHD: Accommodate Interim Release Due to Database Switch Over From Informix to Postgres. (DR 16356)

Gary Carter's request for color change for flooding level in ESPADP program. Error dealing with all missing data in FCST, IFP, MCP3 and OPT3 programs. MAPX program created erroneous datacard files. Headwater guidance are not realistic in FFG program, Changed to handle 100 year data in IDMA program

2.7 OB6-NCF

Problem. AF: sendmail error recovery. (DR 16535)

Handle temporary OS errors" from sendmail via retry or other recovery mechanism"

Problem. MHS Cluster Reconfiguration Scripts. (DR 16508)

Update cluster scripts to allow migration of a clustered MHS server pair's resources to another pair (i.e. allow mh3 to run mhs_mta::3 and mhs_sbn, and mh4 to run mhs_mta::4 and mhs_nwstg.)

Problem. AF: SBN data gathering. (DR 16132)

Need to collect SBN data from BNCF when failed over from ANCF. Install collectSBNData.go cron on BNCF; Modify log file cleanup script to move logs that are from the previous day to the archive; change the time of the cleanup script to run before the collectSBNdata.go cron.

Problem. AF: New NDFD servers. (DR 15966)

Update configurations to send data to new NDFD servers.

Problem. AF: Hazcollect Server Scripts. (DR 15963)

Write Hazcollect server start/stop scripts for Battelle.

Problem. AF: msg_send I/O error reading IFPS SBU files. (DR 17292)

MHS is used to transfer site specific config and grid files from the NAS during IFPS service backup to the destination site. rsync is used to create and update the config and grid files. rsync

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runs continuously throughout the day visiting each site in a round robin fashion to check for perform updates to the SBU files.

This problem occurs when an MHS server in the NCF receives a SBU file request at the same time rsync is writing to the same file. The result is that the read instruction, performed as a single operation, returns an I/O error from the operating system and the program aborts.

This was not detected previously because in every other case, MHS is only working with existing files that are not being operated on by any other system. IFPS Service Backup was added post MHS deployment and this event occurs infrequently. Furthermore, the test facilities do not contain IFPS service backup hardware, so this problem would never have been detected during test.

2.8 OB6

Problem. ESPADP Segmentation Fault. (DR 18032)

When running espadp from the command line and there are more than 100 forecast groups a segmentation fault will occur.

Problem. Incorrect Time Stamp on FFG Product. (DR 18024)

The product output from the FFG program is time stamped with CST time when it should be time stamped with CDT time.

Problem. Incomplete XSETS Crest STGE Forecast. (DR 18023)

LX-XSETS: If the time series that the forecast is created from is STGE, any crest forecasts and Above FS and Below FS information is not generated.

Problem. The .station localization will not pick up new changes to the usa_cities shape file and the resultant CitiesInfo.txt file. (DR 17997)

For certain applications (primarily MDL developed applications), the site run a .station localization. This localization is supposed to pick up any changes for the usa_cities shape file and the resultant CitiesInfo.txt file. Therefore, certain MDL application (LSR, SCAN and maybe others) will not be picked these changes.

Problem. The CitiesInfo.txt file is limited to approximately 25 characters by a localization error. (DR 17996)

The CitiesInfo.txt files produced from the usa_cities shape file is limited to 25 characters by an error. The previous character limit was 39 characters. WarnGen, D2D and several MDL applications will be affected by this problem.

Problem. Hodograph errors in model soundings. (DR 17981)

The hodograph showed erroneous data when the GFS40 model sounding was loaded. The hodograph protruded well into the sounding image. This can be clearly seen in the two attachments.

Updated Level to OPR and Release Discovered to OB6 based on the 9/20 TSR.

Problem. Some MSAS fields have less than 24 frames of data; LI; Td (Ref OB7.2 DR 17980). (DR 17979)

It was found that some of the MSAS surface fields have less than the usual 24 frames of data. In this test surface computed lifted index had 9 and surface dew point had 23. Both fields had current data, but did not have a full days worth of data.

Updated Level to OPR and Release Discovered to OB6 based on the 9/20 TSR Mtg.

Problem. OB6+ : vacuum_pgdb cron for hd_ob# fails if FXA_INGEST_SITE and hydro database are different   (DR 17975)

At site SFMG, it was found that the hd_ob6 database was being vacuumed much less frequently than it was supposed to due to the fact that the hydro database was named hd_ob6hgx and the FXA_INGEST_SITE variable is set to MLB.

For other sites who localize as real WFOs this could be an issue if they run hydrology software as a different site than they export D2D.

The current cron looks like the following:

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

> when this fails, the following cron will vacuum the database, but it runs only once a day, while the other runs 6 times

> 05 09 * * * postgres . ${FXA_HOME:=~fxa}/readenv.sh; /awips/ops/bin/vacuum_pgdb -a -x fxatext,hmdb,hd_ob6$(echo $FXA_INGEST_SITE | tr "[A-Z]" "[a-z]") -z

The cron should not use the $FXA_INGEST_SITE variable to avoid this problem

Problem. RadarTextDecoder sends FTM over WAN for non-reporting sites. (DR 17962)

We found at site SFMG that theey were issuing FTM's over the WAN from the 4 dedicated connected radars they ingest: KEYX, KHGX, KHDX and KMLB despite the fact they had their wmoSiteInfo.txt file configured to where they were a non-reporting site for the radar. SFMG is localized as MLB, so they use th following line in the wmoSiteInfo.txt

KMLB 2 8 MLBND1 MCOND6 TBWND7 JUAND7 AMXND7 HDXND7 HGXND7 EYXND7

According to this, they should not send any radar products via the WAN. After talking with David Friedman, he reported that the RadarTextDecoder will always try to send the FTM unless it is empty, or an error occurs.

This should not be the case, as only the site configured to be a national reporter for that radar should send products via the WAN. Otherwise, duplicate products with different wmo headers will be sent.

The decoder claims to do a WAN check, but despite the following message, products were still sent

> 17:06:19.501 WANProduct.C DEBUG: Getting WAN flag

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17:06:19.501 WANProduct.C DEBUG: Opening
/data/fxa/workFiles/RadarStorage.StateInfo

17:06:19.502 WANProduct.C EVENT: Product distribution on WAN

is not enabled. (See /data/fxa/workFiles/RadarStorage.StateInfo)

Problem. warnGen: On some occasions areal flood advisories cannot be followed up. (DR 17958)

If one takes the attached file and issues the following command in a valid FSL or BOU localization environment:

cat DENFLSBOU.262045 | localWarningInfoText d FLS

one will see that it fails to decode the polygon. This is because the details of the format of thisproduct cause it to inappropriately try to use the... part of the LAT...LON line as part of a headline. (Jim Ramer)

Problem. IGC : 1 Hour Precip Plot includes SPECI reports from previous hour. (DR 17956)

Virgil Middendorf / ALY reported that when they bring up the 1 hour precip plot through the Obs menu, he has noticed at times data from a SPECI report for a specific ASOS was displaying instead of the current hour's METAR report. As an example:

KristenD / NCF re-created the problem on another OB6 platform, and found it works as follows:

SPECI stores at 2041Z with P0007 field, so 1 hour precip plot for 21Z reads 0.07

METAR stores at 2056 with P0014 and 1 hour precip plot for 21Z reads 0.07

SPECI stores at 2104Z with P0003 and 1 hour precip plot for 21Z reads 0.07

SPECI stores at 2134Z with P0008 and 1 hour precip plot for 22 Z readhs 0.08

KevinJ / NCF re-created the problem once more and found that when the SPECI stored before :45 past the hour, it was placed into the correct netCDF file – however, the IGC_Process was using the data from the previous hour's netCDF to paint the most current plot. For example, SPECI stores at 2134Z into the netCDF 20060913_2100 as designed, but the 1 hour precip plot shows a 2200z plot with the data from the 2134 SPECI in it.

Problem. CLIMATE F6 Days With summary ignoring days with precip equal to (=) 0.01 inch. (DR 17952)

When the daily climate F6 product is created, there is a section in which is calculates the number of "Days With" specific values. One of these summations, the "0.01 INCH OR MORE", is ignoring days which exactly 0.01 inch of precipitation fell.

For example if, in the current month, there have been 13 days. If, of these thirteen days, 5 of them have had precipitation of 0.01 inch or more. And of those 5, two of them had exactly 0.01 inches. Then the line on page 2 of the daily F6 product would read: "0.01 INCH OR MORE: 3", instead of reading: "0.01 INCH OR MORE: 5"

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Problem. Time height will only load default height range when loaded from procedure. (DR 17940)

A time height volume browser / procedure problem was discovered in the field. When one loads a time height graphic from the volume browser with a different height range than the default of 1050-150mb, such as 0-2.5km AGL, the graphic will load with the height range that was selected. If that is saved off into a procedure and then selected to load, it will load the graphic with the default height range and not the previously selected 0-2.5km AGL.

This was discovered by Joe Maniscalo at MOB (OB6.1.1) and replicated by Greg Heavener at WNCF (OB6.1.2).

Problem. LS1timecheck.sh script does not correct the LDAD system time. (DR 17937)

The LDAD server is not maintaining an accurate date/time because the LS1timecheck.sh script does not correct the LDAD system time when the LDAD system time is inaccurate.

When AWIPS used the old Gauntlet firewalls, we ensured that the date/time on ls1 was accurate by using the Network Time Protocol to synchronize the ls1 time to the AWIPS clock.

NTP was not implemented on the new Juniper firewalls. To ensure that the date/time on ls1 was accurate, the Juniper firewall installation added an entry to the dx1 cron file. The LS1timecheck.sh script was run once per hour to ensure that the ls1 date/time was accurate.

The problem is that the LS1timecheck.sh script does not correct the LDAD system time. This DR is related to DR 17928.

Problem. The NWEM formatter does not correctly handle January product creation times in HazCollect messages (ref OB7.1 DR 16945). (DR 17934)

The NWEM formatter has a problem parsing the issue date/time from HazCollect messages for the month of January. In the issue time string, the month is preceded by a space (' JAN '), but the NWEM code is looking for 'JAN ', without the leading space. The result is that the date and the day (Monday, Tuesday, etc) are formatted incorrectly in the messages that are sent to the NWR. The problem exists only for the month of January, so this problem will not show up in the field until Jan. 2007.

Problem. NWRWAVES: If a product segment contains two identical VTEC phenomenon hazards, but with separate event tracking numbers, only the first is processed. (DR 17932)

If a product segment contains two identical VTEC phenomenon hazards, but with separate event tracking numbers, only the first is processed. For generated. The underlying problem is that the cancellation statement will expire from NOAA Weather Radio before the new hazard takes effect. This issue example, a product containing a cancelled heat advisory for today with a new heat advisory for tomorrow will only have the cancellation statement only affects those identical hazards which are not tone alerted.

Problem. NWRWAVES: Separate overview section is being inadvertently generated for the TCV product. (DR 17931)

Separate overview section is being inadvertently generated for the TCV product.

Problem. NWRWAVES: WCN products with "CAN" VTEC Hazard are not processed if contained as part of a watch replacement containing a separate "NEW" VTEC Hazard. (DR 17930)

WCN products with "CAN" VTEC Hazard are not processed if containedas part of a watch replacement containing a separate "NEW" VTEC Hazard.

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NTP was not implemented on the new Juniper firewalls. To ensure that the date/time on ls1 was accurate, the Juniper firewall installation added an entry to the dx1 cron files: /etc/cron.d/dx1cron file and the /etc/ha.d/cron/dx1cron file. The LS1timecheck.sh script was run once per hour to ensure that the ls1 date/time was accurate.

OB7.1 delivered a new /etc/ha.d/cron.d/dx1cron file which did not include the LS1timecheck.sh script. Because of this there is no mechanism to ensure that the time on ls1 is accurate.

Problem. LDAD has inaccurate date/time. (DR 17928)

When AWIPS used the old Gauntlet firewalls, we ensured that the date/time on ls1 was accurate by using the Network Time Protocol to synchronize the ls1 time to the AWIPS clock.

NTP was not implemented on the new Juniper firewalls. To ensure that the date/time on ls1 was accurate, the Juniper firewall installation added an entry to the dx1 cron files: /etc/cron.d/dx1cron file and the /etc/ha.d/cron/dx1cron file. The LS1timecheck.sh script was run once per hour to ensure that the ls1 date/time was accurate.

OB7.1 delivered a new /etc/ha.d/cron.d/dx1cron file which did not include the LS1timecheck.sh script. Because of this there is no mechanism to ensure that the time on ls1 is accurate.

Problem. Additional corrections for radar radial displacement. (DR 17927)

During OB6.1.2 ATAN testing of DR17718, users at Jackson noticed that cells did not quite line up when combined images from two adjacent radars were displayed. Analysis at GSD revealed that a .1 to .2 radial displacement was frequently observed. This is in addition to the .5 radial offset that was fixed under DR17718. The decision was made to address this under a separate DR, since Regions agreed that the .5 radial offset fix is the big ticket here, and the 17718 ATAN process was essentially completed.

Problem. HPD/PDC: The D2D's PDC (Station Obs Viewer) occasionally convulses the location of the GUI. (DR 17921)

CAR found that the main GUI for the PDC in the D2D (not HydroView) - labeled Station Obs Viewer in the Hydro/NCEP menu, will occasionally shutter or convulse after loading. It may stop this on its own after some time. This may be related to DR 16522. Note: As with all HPD (PDC) DRs, level of effort to fix is considered to be quite high - even for apparently small fixes - due to problems with the initial design and code. Issues such as these have been taking the back seat to other issues since OB5.

Problem. WarnGen: SMW/MWS does not provide storm motion in kts. (DR 17917)

According to NWS directive   10-313 Section 2.3.3 storm motion should be expressed in kts. WarnGen only does mph. And to stay consistent, distances should also be expressed in nm.

Problem. OB7.1 DVD-RW Media (ref OB7.1 DR 17706). (DR 17913)

Previous Pioneer models DVR-A03, DVR-A04, *DVR-104*, DVR-A05, DVR-105, DVR-SK12D, DVR-A06, DVR-106, DVR-S606 are *unable* to write/re-write/record/re-record using 4X-speed DVD-RW media (Version 1.2 2X and 4X-speed writing/recording media). It is not possible to update these models with new firmware to enable them to write to this 4X DVD-RW media.

Shawn Hooper 08/31/2006: Changed Level from Beta to OPR and Release Discovered from OB7.1 to OB6 based on the 08/30/2006 TSR Meeting. It was found that this problem exists in prior releases.

Problem. Conversion of GRIB to netCDF for D2D problems. (DR 17899)

Background: The ABRFC is pursuing a new methodology of producing gridded FFG. In testing this methodology, the new gridded FFG is send outvia normal AWIPS distribution methods for WFOs to view using D2D. ABRFC noticed what appears tobe a displacement in D2D of the gridded FFG compared to XNAV placement of gridded FFG. This displacement also occurs with the OHD gridded FFG products and the ABRFCs gridded QPE products. One of ABRFC's concerns is how this gridded FFG product was used by FFMP and the resulting problems caused by this displacement.

OHD provided the basic source code useb by GRIBIT to convert an xmrg file to a GRIB product. For expediency, ABRFC did not request the full set of software (libraries, etc) initially. ABRFC's first look at this software did not reveal any noticeable erroneous code.

ABRFC obtained and compiled some GRIB decoding software from UCAR, and the header information in the GRIB file looked correct. The size of the grid array looked correct and the initial latitude and longitude of the grid matches up with ABRFC's xmrg HRAP locations.

Knowing that D2D uses netCDF files to display data, ABRFC then looked at the netCDF files that were created from the GRIB products. It appears that the displacement error is being generated in the GRIB to netCDF process. In the GRIB header information, it lists the grid array size, the initial latitude and longitude, grid cell size and other information concerning time, cration office, etc. The initial latitude and longitude in the GRIB file, matches upwith the lower left corner of ABRFC's HRAP grid domain. In the netCDF file created from this GRIB file, it starts the grid at the upper left corner (in and of itself, not a problem). However, the latitude and longitude of this upper left corner is displaced by one HRAP grid cell to the right (east) when compared to the corresponding uper left corner of th ABRFC's HRAP domain. There is no displacement in the vertical.

Problem. WarnGen: grammar error in an MWS- no SMW call-to-action. (DR 17875)

When Intense Lightning is selected under the call to action section, the CTA is not grammatically correct. It should be:

INTENSE LIGHTNING IS OCCURRING WITH THIS STORM. IF CAUGHT ON THE OPEN WATER...STAY BELOW DECK. KEEP AWAY FROM UNGROUNDED OBJECTS.

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Problem. WarnGen: Problems with MWS- no SMW template. (DR 17874)

When any of "Doppler Radar Indicated", "Doppler radar indicated a line" or "Boaters reported" options are chosen from the basis section, the MWS os formatted with the wording "...PRODUCING WINDS OVER 35 KNOTS...". 35kts is the threshold from an SMW, so having this wording in a non-warning statement is a liability issue.

All mention of "over 35 knots" should be changed to "up to 30 knots".

Also, waterspouts possible is listed as an option under the threats section. This too would require an SMW and should be removed as an option.

Problem. WarnGen: COR should not be first option in list for followup statement VTEC action. (DR 17873)

When using the right click option on a county to select a warning for followup, the list of options is sorted COR, CON, CAN. With COR being the first/default option, forecasters click Create Text without realizing it. This is very problematic as statements will be issued with incorrect VTEC. Also, the functionality is different than the previous when CON was the first option.

The options need to change to be CON (most used), COR, CAN.

Problem. WarnGen: Dime-sized hail still listed under SVR threat options. (DR 17872)

About a year ago, the NWS changed SVR-threshold hail from dime to penny. This change needs to be made to the warning threat options in WarnGen. Dime-sized hail is not SVR criteria and should not be used in warnings.

Problem. RF OB6 XNAV segmentation fault. (DR 17862)

After selecting Data then Radar Precipitation from xmrg files the 1 Hour Radar then Since 12Z and image is displayed on the screen. If you click the middle mouse button while the pointer is near the upper right-hand corner of the image, the program crashes with a segmentation fault. (r27-28)

Problem. RF OB6 ESPADP Plot Display Problems. (DR 17861)

Expected value plots specified to be in log scale in batch mode are showing up as linear. A second problem with using log scale is with exceedance plots. The scaling of the data appears to be done with -999.00. In addition, when trying to plot the exceedance probability plot ESPADP gets caught in a loop and the batch graphics seem to be cutting off all stages which are less than zero

Problem. RF OB6 XNAV does not display segments. (DR 17856)

When the token xnav_seg_type is set to 1, use 5 letter handbook id, the overlay Hydrologic Data Sites-OFS Segments does not display the segments. Also, when xnav_seg_type =1 when you click on a location the hydrograph will not show simulations into the future. (r27-35)

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Problem. RF OB6 ESPADP batchbuilder scripts do not generate all graphical products. (DR 17855)

When running espadp to generate graphical AHPS forecast products using batchbuilder scripts, the string DONE PROCESSING BATCH FILES is never printed. The first graphic is displayed and looks fine, but no subsequent images are produced (AHPS). (r27-30).

Problem. RF OB6 PPINIT Doesn't process @Define Old Station correctly. (DR 17852)

When doing a @DEFINE OLD STATION to remove WFO, FAA, WSFO etc.. from the description the output file says that the general parameters have been update successfully but if you do a punch of the station the station description has not changed. Also when punching out a rating curve with an offset of more than 4, the punch file exceeds 80 columns. (r22-63, r27-7)

Problem. The HazCollect software is sending improperly formatted products to the NWWS uplink sites. (DR 17847)

Products that are sent to the NWWS must have at the end of each line. Products sent to the NWWS from HazCollect do not always have this format.

HazCollect products are created by the DMIS software with the correct format: at the end of each line. They are stored in the Text Database with the same format. The HazCollect transmission software uses 'textdb' to read products from the Text Database. The textdb program removes the characters from products when it reads them from the Text Database.

Problem. OB6.1.2: Radar Cell Display Displaced From Actual Cell Location (Ref OB7.1 DR 17718, OB7.2 DR 17839) (DR 17840) [EMERGENCY RELEASE]

Site DMX reported a discrepancy in their radar display during an event in early June 2006. The warning forecasters reported that the cells were displaced 3 to 5 miles to the "west" when the same echo was loaded from two different WSR-88D's. This condition can be recreated by loading a cell, which is equidistant between two different WSR-88D's. When the data is loaded, there will be a noticeable counter-clockwise displacement of about 1.5 degrees. This problem was introduced in OB6.

Sites LZK and CYS were asked to test for this displacement while they were still OB5, and were unable to re-create such an issue. While sites BCQ, CLE and DMX have all reported the same displacement issue.

Data from an event, which occurred at DMX when they were OB5, was displayed on two different WES machines. One system had OB5 software, and one was loaded with OB6. On both platforms, there was no data displacement shown. When data from an event, which occurred at DMX when they were OB6, was displayed on the same two systems, both systems showed the displacement.

Problem. Minimum days of obs data can not be preserved within 1 1/2 hours of the synoptic time. (DR 17825)

FCST: Errors are being generated that the minimum days of observed data can't be preserved. The Fgroup works fine until 6 days before 31 days of data is stored when it fails 1 ½ hours before and up to all synoptic times.Once the synoptic time passes it works fine again.

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When the FGROUP SJNEW is run 1 1/2 hours before the synoptic time (12z, 18z, 00z, 06z) an error shows up sayin that the min days of observer can't be preserved. The Fgroup will work fine up to the 1 1/2 hour before the snoptic time and also after the synoptic time passes. The Froup ran without error all of the time until 25 days of data was stored on the processed database. The prdutil dump of 1 hour timeseries for the segments SNFF1IN, MDLF1IN, and DLAF1IN shows data for the 1 hour QINE timeseries back to 1/06/2006. Ihave included the fs5files, input and output fcst files, and the prdutil dump (tsdata _serfc.20060329.183435) of the 1 hour timeseries. SERFC Observations..... The QINE 1-hour time series for SNFF1IN, DLAF1IN, and MDLF1IN contained data back through 1/06/2006 13Z. On 1/31/2006 shortly after 1630Z we started getting the ERRORS mentioned above. When the segments were giving ERRORs the PDB tsdata for DLAF1IN, SNFF1IN, and MDLF1IN showed that the all the 1 hour data for the next synoptic hour was already being posted as REGULAR data as opposed to FUTURE data. Once the next synoptic hour was past the REGULAR and FUTURE tsdata were written to the proper area. **** After 12Z 2/06/2006, there were 31 DAYS of REGULAR QINE tsdata in the PDB for SNFF1IN, MDLF1IN, and DLAF1IN and the FUTURE tsdata remainded in the proper area.

Problem. SNOW-17 PRNTOPER output not correct. (DR 17824)

The output from the PRNTOPER SNOW-17 operation is not displaying the same data as the PRDUTIL dump command. Since the two programs are reading the same data from the fs5files, the output from both programs should be the same.

SNOW-17: The output from the PRNTOPER SNOW-17 operation is not displaying the same data as the PRDUTIL dump is displaying. The data should be the same.

Problem. AF: Update AWIPS script to replace decomissioned TOC servers. (DR 17822)

The AWIPS configuration script must be updated for changes related to TOC hardware replacements. The environment variable NWSTG_TCP_HOST must be changed from tgsv60 to tgp15 because the tgsv60 server is being decommissioned.

Problem. Default Radar Alarm Sound annoying and somewhat unprofessional. (DR 17812)

Steve Tood, the MIC at the Portland WFO, indicated that for a long time AWIPS has had a rather annoying (and somewhat unprofessional) default sound of a "car crash" to indicate when the 88D wide band connections goes down, which is disturbing and annoying to the forecasters in the field. The WFOs must continually change this annoying sound every time a new build is installed because the file is overwritten by the default with crash.au configured.

Problem. RES-SNGL: A mass water balance can not be calculated for periods ending with observed data at 18Z. (DR 17805)

There are three observed data types used in the RES-SNGL Adjust utilityr: observed instantaneous discharge; observed mean discharge; and observed pool elevations.

Different adjust processes are used for single, or combinations of observed data type. Mass balances are performed in the adjustment on all the single/combined data types (except single observed instantaneous discharge).

Mass balance uses DAILY discharge to balance and recompute adjusted discharges, and pool. In the mass balance process, for any day with one or more missing data in one or more period(s),

that day is treated as missing. Since 18Z does not have a whole day of observed data, the mass balance truncated the observed data for the entire day.

Problem. ScatterometerWinds.html was not found; AWIPS System Monitor. (DR 17789)

It was found that OB6 and OB7 systems can not reach the ScatterometerWinds.html from the AWIPS System Monitor. To replicate this error open the AWIPS System Monitor and click in the following: Point --> Scatterometer Winds information page (pin). A screen capture is attached to this DR.

Problem. Fog Monitor: Failure due to obsolete satellite file. (DR 17786)

Fog Monitor is failing at PAJK because it can't find the location (lat, lon, height) of the new GOES-West satellite, GOES-11. This data is being placed in the AWIPS satellite files via the static /data/fxa/nationalData/satSpecificInfo.txt file. The problem is that the file refers to a satellite #13 (corresponding to GOES-10) as opposed to #14 (GOES-11, the replacement). The satellite files therefore have no mapping data, and the Fog Monitor is not able to make its calculations. The fix would be to change that #13 to a #14.

Problem. Upper air trajectory data shown with wrong date. (DR 17773)

NGM Parcel Trajectory graphics are being stored/shown as one day behind the actual product time. This is probably due to the products' configuration in the NDM file redbookDataKeys.txt. If this is the case, this DR is not release-specific.

Problem. mosaic image style error. (DR 17757)

Jordan Gerth at CIMSS/U Wisc reported an error in radarGenericImageStyle.txt. The entry for key 22010 includes an erroneous first tag element which results in a labeling problem in the color bar. (Jordan reported an inability to load other products after loading mosaic STP on his OB6 system, but I did not see that in OB6.1, OB7.1, or OB7.2 at GSD.)

Problem. TDWR VCP90 RPS list is not created during an -auxFiles localization. (DR 17742)

Testing for DR 16743 uncovered a problem generating the TDWR VCP90 RPS lists. An -auxFiles localization should cause the TDWR RPS lists to be regenerated. The TDWR VCP90 RPS list is not generated if the file doesn't exist, and it is not updated if it does exist.

Problem. RF OB6 XSETS fails with MALLOC_CHECK_=0. (DR 17725)

When NCF personnel added the Environment Variable MALLOC_CHECK_=0, the XSETS application generated a memory fault when it tried to allocate additional memory.

Problem. Time Of Arrival Process hangs problem & its relying on wwa's timezone gelt file issue. (DR 17722)

It was observed that Time Of Arrival process would fail to be terminated after a dirty shut down of D2d. The hung ToA process would have a tendency to hog computer cpu resource. Changing TOA assoicated depictKey value would make it be terminated properly. Also adds it to the list of processes list in the killPrevous.tcl will guarantee the leftover process be killed before start D2d.

Currently, if wwa's timezone gelt file doesnot exist, TOA tool would become unusable, would change it to be functional without providing local time info in absence of timezone gelt file.

Problem. GF: 2000 export_grid processes were found on px3 and px4 during the failover test at TBW4. (DR 17699)

At least 2000 export_grid processes were hung on px3 and px4 machines during the failover test.

Problem. textWindow Print Selection fails for large selections. (DR 17687)

After loading a large text product in the textWindow, a site attempted to select a majority of this product, and use the Print Selection feature under the File menu of the GUI to send the data to the printer. At this point, the dialog box appeared asking "Are You Sure You Want To Print Current Selection?" Neither the Yes or No buttons work, and the forecaster must hit the "X" on the textWindow to close the window, and never gets the printout.

Problem. Interactive Skew-T Print Parameters function causes application error. (DR 17681)

After loading an interactive Raob plot on D2D, and making the skew-t interactive, the user can not use the Print Parameters selection under the File menu of the Skew-T Controls GUI. STEPS TO RE-CREATE:

1) Load a D2D, and under the Upper Air menu, load a Raob (skewT) plot.
2) Right click on actual SkewT plot, and select the Interactive Skew T option.
3) Middle click on the Interactive Skew-T legend at the bottom right hand corner to make the display editable, and display the Skew-T Controls GUI
4) Select Print Parameters from the File menu on the GUI

APPLICATION ERROR MESSAGE:

(pasted below is the actual application error)

invalid command name .parameters.values.lab30"

Problem. Interactive Skew: T Print Parameters function causes application error. (DR 17620)

The NCF has reported that there has been an increase in tickets relating to /data/logs/ filling up, since the move to more (5) fxa logs in OB6. The test team has also observed that this continues in OB7.1, especially on dx3f. It is suggested that the number of fxa logs kept should be less than five.

Problem. Moisture Variables on RAOB SKEW-T occasionally incorrect (Ref OB6.1&7.1 16902). (DR 17601)

The moisture variables on some RAOB SKEWT's are incorrect. The variables for precipitable water, K-index, Totals Index, LCL (and probably CAPE) can be considerably off. For example, comparing the good OB5 with the bad OB6 sounding for site ALY for January 9, 2006 at 12:00 UTC showed the following differences:
Precip Water -- 0.49 (OB5)

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Problem. Missing MEXMOS in GFE. (DR 17548)

Running the standard fix: ingest_stn_guidance is only correcting the missing data issue temporarily. It seems to happen during the overnight shift affecting 00Z and 06Z. On average it seems to happen once in five days.

Problem. WFOA: Problem With CPC Outlook Data. (DR 17503)

Colorado Basin RFC (STR) and other operational sites report that the CPC temperature/precipitation anomaly grids are not displaying correctly in D-2D. This was first believed to be a problem at NCEP/CPC; however, CPC has since assured OS/HSD that the problem is within AWIPS.

The problem has been observed using D-2D on AWIPS development and test systems in SSMC-2, including NHOW and NAPO. OS/HSD and OST/SEC staff have problem examples.

The product set in question consists of temperature and precipitation anomaly grids that CPC prepares and sends to AWIPS once per month (on the third Thursday of the month). The problem is that, when the products are displayed in AWIPS, the anomaly probabilities are about 33% higher than they are on CPC's web site. In 2004 and in 2005, the AWIPS-displayed probabilities matched those of the CPC web site. These products can be displayed by selecting the D-2D NCEP/Hydro menu, then the Outlook Grids" submenu.

Problem. fxatext.sql and loadtext.sql fail when re-building fxatext database due to lack of ownership. (DR 17485)

When running the script fxatext.sql, the following lines will fail because the $PGUSER is set to pguser, and not the owner of the fxatext database (user postgres):

> COPY stateMatch FROM '$FXA_HOME/postgres/statMatch.dat' USING DELIMITERS '|;

Problem. MEXMOS: Goes til Day 3 Only. (DR 17474)

MAXMOS only goes out to day 3 on occasion. This seems to happen every few weeks. This problem is sporadic in GFE and happens on all workstations. The Jun 2 00Z run only went out to day 3.

Problem. Interactive Skew-T: Control Lifting Method Unavailable. (DR 17461)

After loading an Upper Air RAOB Plot (Skew-T) and then making it interactive and editable, a list of Skew-T Parameters and Controls are displayed. Under the Skew-T Controls window, the upper second of the GUI concerns Lifting Methods of a parcel. The option to lift by Use Fcst Max Temp" is now grayed-out. In OB5.

Problem. Time of Arrival/Lead Time tool process takes up large amount of CPU. (DR 17427)

During the severe weather event of the evening of 5/9/2006 and early morning of 5/10/006, lx2-ict slowed to a crawl. The top command showed that the timeOfArrival" process started by the "Time Of Arrival/Lead Time" tool was consuming approximately 50 percent of the CPU cycles. The process didn't stop when the pane was cleared or with a simple kill pid. It required a kill -9 pid to stop it. At that point the workstation returned to normal speed. The tool had been loaded

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for several hours and may have even been loaded on more than one pane. The process was running even though the TOA tool was not loaded on any pane of the workstation. This process is not terminated when the pane into which it is loaded is cleared. This performance hit was detrimental to the warning/storm interrogation process. The tool is extremely handy and a necessary functionality.

Problem. WarnGen service backup false alarm message. (DR 17425)

When performing service backup in WarnGen, sending the message gives a false error.

Problem. Outdated Redbook Graphic products on NCEP/Hydro menu. (DR 17406)

Many items in the NCEP/Hydro menu need to be removed. There was a previous DR on this subject [DR 16430], but every system I have checked (some in Silver Spring and some WFOs) still have the items listed in the menu. Many, but not all, of these are Redbook graphics. Many systems also had old Radar Summary and Radar Legend products, but that was because of a WMO Header change. The rest of the products, I believe, have been discontinued, but the SPC outlooks may be related to DCS 3336.

Products missing from systems and thus menu items that may be needed to be removed:

Legend: Location and name of product in NCEP/Hydro menu (number of products)

```
================================================================

    SPC Convective Outlooks > Thunderstorm & Severe Thunderstorm Probability (2)
    National Center Model > NGM Surface Moisture Convergence (1)
    Marine Guidance > 200mb & 850mb Strmlines/Winds Analysis [Atl & Pac] (4)
        > Deep Layer Circulation 1000-100mb [Atl & Pac] (2)
    QPE > Manual SPE > [ALL] (12)

================================================================
```

Problem. RadarStorage needs to allow dedicated backup radars to send"". (DR 17395)

A dedicated backup connection won't be allowed to send products to the NCF if the radar to which it's connected is tagged with a '3' or '0' in radarsInUse.txt

Problem. English to Spanish Translations for CRS Don't Work on RHEL3+ Linux Platforms. (DR 17393)

1) After the OB6 Phase 3 installation, particularly the migration of the database and triggers from an HP-UX (Informix) to a Linux (PostGreSQL) platform, WFO SJU's English to Spanish translations of products on CRS failed to work. Here's how they do Spanish translations:
English products trigger a local perl script that translates the product.

2) Spanish products runs through CAFE, and the Spanish translation file within CAFE does a find/replace.

3) CAFE runs the transmitNWR and goes to CRS.

The problem has to do with some Spanish language character sets. One workaround is to run the application on the HP-UX box (which disappears after OB7.1). As noted by the OST, Linux OS RHEL3+ moved to the utf8 character set which broke a number of applications using older

character sets. They further noted the following work-around: One (recommended) soln for running a program which makes use of old char sets on a RHEL3+ box is to set LANG=C" (HP locale) before executing the program on that box."

Problem. Some products are not being sent to CRS (Ref. OB7.1 DR 17370, OB6.1 DR 17334)). (DR 17392)

First there is a syntax error in the AWIPS baseline file /awips/fxa/bin/sendToNWR. The error appears to be on line 679:

> logProblem incomplete transfer of $filename\n"

Problem. Documentation on configuring Full Service Backup is out of date. (DR 17391)

From Jim Ramer: While I was chasing this [DR 17390 The 'ISSUED BY ' line for service backup does not work"] down

Problem. The 'ISSUED BY ' line for service backup does not work. (DR 17390)

After looking at this problem in detail, I do not think the part of the format checking that verifies the 'ISSUED BY ' line for service backup has ever worked in OB6. It will not matter if one is using practice mode or not. Near as I can tell, it was broken during the hydro VTEC work. Even the most rudimentary testing of the service backup capability in WarnGen would have revealed this bug. Everyone involved (and I certainly include myself in this) needs to keep service backup in mind during our testing more than we currently do.

This bug is easily fixable, but unfortunately not in tables. It will require a change to the localWarningInfoTest executable. We should get a DR cut for fixing this in the earliest practical release.

Problem. ADR Message Replace Problem. (DR 17376)

A single ADR update message could possibly replace all active NWEMs for the same listening area. The issue is the uncertainty of (1) whether or not all of the NWEMs are properly replaced by the ADR update message, and (2) whether each of the NWEMs is broadcast before it is replaced.

It was suggested at the HazCollect Status conference call that a solution for the ADR Multiple Message Replace Problem would be to hold ADRs in the NWR Browser rather than sending them automatically to CRS. The operator would be able to deal with it manually. Joel Nathan, OPS23, has a new version of the NWEM formatter in HazCollect that already provides that capability for the ADR, as well as the AVA, CAE, TOE, LAE, and NIC.

This new formatter is critical for the HazCollect OAT.

Problem. The category 1 (large cities) do not appear in the pathcast section (4th bullet) for line of storms. (DR 17358)

The category 1 (large cities) do not appear in the pathcast section (4th bullet) using the line of storm option. Only category 2 (mid-size cities) or 3 (small cities) appear. Category 1 cities do appear if using the single cell option. WFO BGM wrote Trouble Ticket 249997 on this problem, but Mike Rega confirmed the problem on one of the NMT systems.

Problem. FFMP shapefile access. (DR 17357)

FFMP's shapefile accessor expects the DBF file to have a particular order of attributes. If this order is changed (for example, during shapefile customization), the reader might break. We want to make the DBF accessor more flexible such that the order of the attributes does not matter. The possible outcome of this problem is an inoperable FFMP, but the change in attribute order during customization is thought to be very rare. If this problem is encountered, a work-around is to change the shapefile then re-localize for FFMP again.

Problem. Areal Flood Warning has no dash delimited list of county names in the segment heading. **(DR 17349)**

Tim Helble confirmed that NWS Instruction 10-922 section 9.3.5 (effective July 11, 2006) has an error in which the Areal Flood Warning has no dash delimited list of county names in the segment heading. Tim will add the list of county names. As a result, we need to DR and fix two OB6 WarnGen templates to add the list of counties in the segment heading:

      wwa_flood_wrn.preWWA   (Areal Flood Warning)

      wwa_flood_adv.preWWA   (Areal Flood Advisory)

The dash delimited list of county names is a segmentation requirement, not a follow-up requirement.

My understanding is that to produce the list of counties, the following line needs to be added just below the H-VTEC line:

      &<LINE_DEL|-><AREA |file=wwa_counties |format=simple |item_format=[0,st][99,-]>

Problem. Cross-section locator error. (DR 17346)

A minor problem was observed with the cross-section locator (upper right of main pane on D2D) on the CONUS scale when loading multiple graphic and one image from the Volume Browser or loading multiple graphics and then making one an image. This was only observed when loading the products into a space (not time) cross-section by latitude.

When the products are loaded, the display looks as is expected. When moving through the frames, from north to south, there again are no display issues, except once the 45.0 N latitude frame is reached. On that frame the cross-section locator covers most of the CONUS, when it should just be aligned along the 45.0 N latitude line. This display error would correct itself once the user zoomed in and back out. The display error would also not occur if the user loaded the graphics, moved to the 45.0 N frame, and then loaded the image. As aforementioned, multiple graphics must be loaded. This issue will no occur when only one graphic and one image are loaded.

The cross-section locator is tied to the last graphic loaded (top graphic in the product legend) in terms of color and in terms of this issue. When the top product is toggled off, the color of the cross-section locator changes to the next product on the product legend and the erroneous display disappears. It will reappear; however, when the product is toggles back on.

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There are two attachments:

Xsect_ToggleON: Shows error and the top graphic in the product legend is toggled on.

Xsect_ToggleOFF: No error and the top graphic in the product legend is toggled off.

Problem. Wet-bulb temperature (Tw) profile calculated erroneously in edited ROAB. (DR 17342)

Errors were found with the display of the wet-bulb temperature (Tw) profile of edited RAOBs. Occasionally it was found that the profile would show a distinctive low value at the level where new points were created. The wet-bulb profile would shoot off to the left, well past the dew point profile. At no point was the inverse observed, distinct high value. A number of edited RAOBs displayed erroneous profiles. Attached are two examples of non-edited and edited KTAE and KLIX, all with wet-bulb profiles. The edits to the RAOB were only slight. In the KLIX example, new points were created, at about 470mb, as close as possible to the actual temperature and dew point temperature profiles. This still caused errors to occur in the wet-bulb profile.

Problem. Monthly average temperature departure from normal is missing from F-6 (Ref. OB6.1-DR 16799 & OB7.2-DR 17340). (DR 17339)

Greg Gerwitz, at the ALY OB6 Phase III Beta site, reported the following: "However there is still one minor glitch which occurred after we installed OB6 Phase III. The Monthly Average Temperature Departure from Normal is missing. I checked BOX's LCD's on their WEB page."

Problem. Archiver Duplicate Files backup issue. (DR 17329)

The Archiver software(AX cron software) is not checking the dates on files before archiving them. This results in the Archiver backing up the same day's model data twice. This results in the /data partition becoming 90+% full.

This problem was noticed at OUN because they have 3 dedicated radars and receive more model data than other sites.

Problem. FFMP: Sort by FFG improper use cutoff. (DR 17322)

The FFMP Basin Table has applied the filter cutoff value in the wrong direction, excluding low values instead of excluding high values. This needs to be fixed. The filter cutoff application to the 'diff' attribute also needs to be re-examined to make sure it is acting properly.

Problem. FFMP: Basin Trace clear. (DR 17317)

OB6 has a piece of new functionality (Basin Trace) that can yield up and downstream basin stippling. This was tested, yet the field reports that they are unable to clear it once it is produced. We need to make sure we provide a good 'clear' method.

Problem. Problems in Initialize Climate Database"". (DR 17312)

For LOT, when they initially run the climate program, they cannot access monthly data. This is happening on lx3 and possibly elsewhere. Error: SQL State = 3400 'Cursor does not exist on line 425.

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Problem. Key West Site Identifier Change (D2D) (Ref OB7.1 DCS 3284, OB6.0.2 DR 17254, OB6.1 DR 17297). (DR 17294)

The WFO site has changed their site ID from EYW to KEY. All localization files that reference this identifier need to be updated to reflect this change.

Make sure the additional file referred to in OB6.0.2 DR 17323 is included.

Problem. WarnGen: Duplicate County Names in Follow-up Headlines (Ref OB6.1 DR 17129, OB7.2 DR 17283). (DR 17282). THIS DR IS CLOSED, and workaround is issued. Also see Section 2.

In the case where two counties of the same name are included in a WarnGen warning, the baseline template produces a headline with all county and state names:

> THE NATIONAL WEATHER SERVICE IN ST LOUIS HAS ISSUED A
>
>   * SEVERE THUNDERSTORM WARNING FOR...
>
> NORTHERN PIKE COUNTY IN NORTHEAST MISSOURI
>
> EASTERN RALLS COUNTY IN NORTHEAST MISSOURI
>
> SOUTHERN PIKE COUNTY IN WEST CENTRAL ILLINOIS

The baseline SVS template however, produces a headline with only the county names:

> ...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 230 PM CST FOR EASTERN RALLS...NORTHERN PIKE AND SOUTHERN PIKE COUNTIES...

The baseline SVS headline is quite confusing concerning the duplicate county names. There are 6 pairs of such counties that are adjacent. There are an additional 22 sets of duplicate counties that are within 50 miles of each other.

Jim Ramer said that a WarnGen template solution is possible, that is, no baseline AWIPS software logic changes are needed. The template change would affect most WarnGen land based follow-up templates. Richard May confirmed that this issue does not affect marine products. 5 templates in OB6 are affected:

>   * wwa_svrwx_sta_county.preWWA (Severe Weather Statement)
>
>   * wwa_flflood_sta_county.preWWA (Convective Flash Flood Follow-up)
>
>   * wwa_flflood_sta.preWWA (Non convective Flash Flood Follow-up)
>
>   * wwa_flood_sta.preWWA (Areal Flood Warning Follow-up)

* wwa_flood_adv_sta.preWWA (Areal Flood Advisory Follow-up)

Workaround. Additional manual steps are needed to complete DR 17282 (OB7.1 WarnGen: Duplicate County Names in Followup Headlines)

Problem. In the case where two counties of the same name are included in a WarnGen warning, the baseline template produces a headline with all county and state names:

> THE NATIONAL WEATHER SERVICE IN ST LOUIS HAS ISSUED A
> * SEVERE THUNDERSTORM WARNING FOR...

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NORTHERN PIKE COUNTY IN NORTHEAST MISSOURI
EASTERN RALLS COUNTY IN NORTHEAST MISSOURI
SOUTHERN PIKE COUNTY IN WEST CENTRAL ILLINOIS

The baseline SVS template however, produces a headline with only the county names:

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 230 PM CST
FOR EASTERN RALLS...NORTHERN PIKE AND SOUTHERN PIKE COUNTIES...

The baseline SVS headline is quite confusing concerning the duplicate county names. There are 6 pairs of such counties that are adjacent. There are an additional 22 sets of duplicate counties that are within 50 miles of each other.

To correct this problem, sites will need to make an additional manual change adding a /data/fxa/nationalData/dupCounties.txt file.

Using LSX as an example, place the following information in the file, /data/fxa/nationalData/dupCounties.txt where the include_text fields are the FIPS county code of the duplicate counties.

   |file=wwa_counties |output_field=3 |include_field=3 |include_text=MOC163

   |file=wwa_counties |output_field=3 |include_field=3 |include_text=ILC149

As user fxa, run a WS localization on each workstation:

        from /awips/fxa/data/localization/scripts run:
        ./mainScript.csh -wwa

Try this on one workstation and test the change. If everything looks ok, localize the rest of the workstations. To test, use practice mode and create an SVR using WarnGen that crosses the two counties with the same name in different states. Issue a follow-up (SVS). Observed the created text on the text workstation and check that it properly and clearly lists the two counties with the same name and what state they are in.

Problem. Key West Site Identifier Change (D2D) (Ref OB7.1 DCS 3284, OB6.0.2 DR 17254, OB7.2 DR 17294). (DR 17279)

The WFO site has changed their site ID from EYW to KEY. All localization files that reference this identifier need to be updated to reflect this change.

Problem. Negative Min/Max RH in Climate GUI. (DR 17278)

The time of Min RH and Max RH - displaying negative 32,768. This is showing up in the GUI, but the product has the correct values.

Problem. notificationServer went into zombie state. (DR 17275)

At OUN, the notificationServer went into its zombie state when the notificationServer was attempting to update a textDepictKeys.. When the notificationServer went 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.

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Problem. xhost error message when su - fxa" from root". (DR 17270)

Brad called and said they had some problems with Xlib. They opened a terminal window and were able to login to root. The problems began when they tried to su to fxa. They got messages saying xlib connect to xt2 refused by server, no protocol specified and host unable to display. It is happening to all users and only is happening on the XT workstations and not the LX's.

4/18/2006 14:49:07 KevinJ

  --> This appears to be a problem POST phase 2 .... the problem is with the .login script, and happens when you log directly into an XT, switch to user root, and then switch to user FXA. This is the code that creates the problem:

> # permit awips servers to access the display
>
> # only if we're logging in on an xt console.
>
> if (`hostname | cut -c1,2` =~ xt" && $?DISPLAY) then

Problem. Sites cannot issue Airport Weather Warning product after OB6 install. (DR 17253)

Some WFOs use WarnGen to issue a product called the Airport Weather Warning" (AWW). This is a short duration product that warns of weather events that affect airport operations.

Problem. D2D scan menu two large; radar; ffmp (Ref OB7.1 DR 17246). (DR 17247)

The scan menu does not fit on the screen when there are multiple dedicated radars for that WFO (four will surely do it). This causes a few problems:

1) Not all the options for the menu may be selected.
2) User must hold down mouse button one (MB1) in order to keep the menu up.
3) Menu pulls-up and does not pull-down as usual.

1) User is unable to select menu options from the lower section of the menu because that section is off the screen. Tearing off the menu and moving the menu is not a work around, because there is no room to even move the menu.

2) Once the menu is selected, it immediately disappears. The menu has the inability to stay up apparently because it is partly off the screen or close to the bottom of the screen. The user must hold down MB1 to keep the menu up.

3) When the user selects the scan menu, the menu is forced to the top of the screen because there is no room. Usually the menu drops down from the same level as the menu bar. Other menus will be forced to behave similarly when the D2D application is moved well to the bottom of the screen (Hold down MB1 over D2D title bar and move cursor down). With the D2D menu bar only a couple of hundred pixels from the bottom of the screen the menus are forced to pull-up and not pull-down as usual.

[Note: There is an attached image.]

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Problem. WarnGen: SVS wording for cancellation and expiration of county portions incorrect. (DR 17222)

In cancellation (CAN) and expiration (EXP) follow-up messages, WarnGen does not preserve the portion of the county wording.

Using portions of counties, here is the scenario for a long north-south county –

1. Warning is issued for Northern Le Flore County" at 1pm CDT until 2pm CDT. Description of county in the text of the warning is "Northern Le Flore County".

Problem. SAFESEAS: IWX needs a config text file update. (DR 17214)

In the past year, the Northern Indiana WFO (IWX) has been given primary responsibility over several marine zones in Lake Michigan. This new situation is not reflected in the adjWFOinfo.txt file, which tells SAFESEAS how to localize for marine sites. IWX has already modified the file themselves; we just want to make the change permanent. This is a very straightforward change, very similar to the recent Key West changes.

Problem. CLM editor: temperature and precipitation not aligned (Ref OB7.1 DR 17164). (DR 17194)

In the CLM editor, the temperature and precipitation widget and tables do not align with entry. This problem was observed in OB6 (TBDW) and OB7.1 (TBW3) and may be older than that.

Problem. LAPS was off by about two degrees from the metar observations (Ref OB7.1 DR 17160). (DR 17191)

The LAPS temperature (T) and dew point temperature (Td) were underestimating the current observations. In some cases there would be a minimum bull's-eye were there was no observation to call for that. LAPS was off by about two degrees Fahrenheit from the metar observations.

Problem. FFMP:VGBs retrieval failure when hydro-database ported into Postgres. (DR 17185)

FFMP uses Virtual Gage Basins (VGB) as very important data source for user to compare the gage precip data with radar estimation. But when the hydrology database was ported into Postgres" from "Informix" for OB6.

Problem. Supplementary fix for DR 16836. (DR 17177)

During the unit test process of DR 16836, it is found that additional code changes are necessary to fix the DR 16836. Without the fix for DR 17177, climate report would not be able to report the maximum and minimum temperatures for daily climate report.

Test procedures:

1) Identified a WFO site where there are multiple metar reports during a nominal hour;
2) With the WFO site identified, choose a date where the maximum or minimum temperatures happen from metar reports other than the first metar in the nominal hour.
3) Run the climate report CLI, it should report the correct maximum and minimum temperatures with correct time (hours).

Problem. Progressive disclosure problem with Synoptic obs. (DR 17172)

In situations where the number of Synoptic stations available is large, progressive disclosure will fail due to problems with the spi file. All stations display, regardless of the Density setting. The problem is a mis-application of the station numbers, and the fix involves four lines in makeStationFiles.csh.

Problem. CLM editor: temperature and precipitation not aligned (Ref OB7.2 DR 17194). (DR 17164)

In the CLM editor, the temperature and precipitation widget and tables do not align with entry. This problem was observed in OB6 (TBDW) and OB7.1 (TBW3) and may be older than that.

Problem. LAPS was off by about two degrees from the metar observations (Ref OB7.2 DR 17191). (DR 17160)

The LAPS temperature (T) and dew point temperature (Td) were underestimating the current observations. In some cases there would be a minimum bull's-eye were there was no observation to call for that. LAPS was off by about two degrees Fahrenheit from the metar observations.

Problem. XT: Multiple TextWS are able to be started on one text workstation (Ref OB7.2 DR 17209). (DR 17143)

Multiple Text Workstations are allowed to be started on one XT workstation. The first Test Workstation is automatically started when the user logs in. The second may be started by the usual method: left click the desktop and use the menu to select TextWS. This action will cause both TextWS to be running concurrently. It has been allowed to start another TextWS in past builds, but it should shutdown the old TextWS. This is the same on the LXs: if a D2D is open and another one is launched on the same window, the old D2D will be shutdown and the new one will continue to launch.

Problem. WarnGen: numerous erroneous Ws displayed on main pane after polygon is moved. (DR 17142)

On WarnGen display on D2D, numerous Ws show up in CWA where no polygon exists. No hatching is observed with the Ws. The counties with Ws do not get added to the text, when product is created in WarnGen. The issue is observed when a track ball or polygon is first inside the CWA. This is better observed with a polygon and when track begins outside the CWA. The track is then moved completely outside the CWA and redo box is pressed. Ws will appear where previous polygon was.

Testing by GSD and SWIT confirms that it is a problem in OB6, so the Release Discovered is updated. Also, the OB7.2 duplicate is canceled.

Problem. RHEL3u4: dos2unix doesn't work. (DR 17139)

There are bugs in the dos2unix program delivered with RHEL3u4. This version of dos2unix comes up as 3.1. We need to check if these bugs exist in the version supplied with RHEL4u2.

Problem. Certain Parts of Localizations Don't Work (\n in echo commands). (DR 17122)

The latest version of the csh (delivered with OB6) does not interpret 'escaped characters' like \n within echo commands in the same way it used to. This causes certain aspects of localization to

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fail (see example below). According to GSD, one way to handle this kind of thing that is less sensitive to the particular UNIX version one is running involves having the file list be put together with simple space delimiters, and then changing this:

echo $fileList | sort -u | grep -v '^$'

to this:

echo $fileList | tr ' ' '\n' | sort -u | grep -v '^$'

One needs to just change all uses of \n in echo commands to use this kind of logic...it only happens in a couple of places. The echo_style thing is implementation dependent and it would be good if we could get rid of it.

For example, since the OB6 installation, a small part of what used to occur during a -station localization was no longer occurring. That is, the last part of makeStationFiles.csh is supposed to construct static netCDF station data sets -- but it is no longer working. Here, this is the only place where the fileGrab.csh script is called with the L" option to list files. The L option in fileGrab.csh is used to list files with a newline "\n" character between each file. This was accomplished by constructing the $fileList string with "\n" characters between each file

Problem. dx1apps.log file filling up with extraneous entries. (DR 17121)

It was found at DDC, and other offices, that the /data/logs/dx1apps.log file was filling up with strange information, seemingly unrelated to starting or stopping the dx1apps package. This started in OB6, where the start and stop commands were wrapped in a redirection to the dx1apps.log file. So anything not logged by the individual start scripts or redirected to another log file or some other device (/dev/null) would eventually get captured by this wrapped redirection to dx1apps.log. It turns out that the TextDB servers, specifically triggers, get sent to the standard output, so that is what is being dumped into the dx1apps.log.

Problem. KEY: Text workstation files must be updated. (DR 17111)

In order to support the EYW to KEY identifier change, the file awipsSites.txt must be updated.

Problem. verifysshkeys.sh does not work correctly after OB6. (DR 17091)

The verifysshkeys.sh needs to be investigated to make sure it works 100% correctly after OB6 (and OB7). At the site, authorized_keys are not being updated on all hosts, and the script is not resolving problems with passwordless ssh.

Problem. DMD New Alarm use of 'turn-off' value. (DR 17073)

The DMD New Alarm evaluation should probably make use of the same 'turn-off' file/conditions as the SCAN New Alarms.

Problem. RF OB6 Parsing Errors in Shefpars. (DR 17068)

When a valid .B" statement with a closing ".END" is followed by an invalid ".B" statement

Problem. Highest and Lowest Sea Level Pressure Missing from Climate F6 report. (DR 17044)

F6 product for Climate is missing the highest and lowest sea level pressures."

Problem. METAR did not report dewpoint, but HWR did. (DR 17043)

Dewpoint was not reported in the METAR but showed up in the hourly weather roundup for site KRSL.

This appears to be a software glitch.. when there is no dewpoint, it reads it as 0 and puts 32 degrees in the product.

Problem. Cannot Change Month on Climate Menu. (DR17034)

The site reported that in the menu for changing the climatological data the site is unable to change from one month to another. This is under the Initialize the climate database on the main Climate menu. If you select January the data will show but when they select another month the data will not change, it is still January's data.

Problem. Fog Monitor OB6 Key West Change. (DR 17032)

This DR will cover the lone Fog Monitor configuration text file which needs to be modified and checked into WFOA6.0.2 as part of the EYW to KEY identifier change at the Key West forecast office. This DR corresponds to OB7.1 DCS #3293

Problem. SAFESEAS OB6 Key West Change. (DR 17031)

This DR will cover the two SAFESEAS configuration text files which need to be modified and checked into WFOA6.0.2 as part of the EYW to KEY identifier change at the Key West forecast office. This DR corresponds to OB7.1 DCS # 3294.

Problem. nwrEditor crashes when loading a product from TextDB. (DR 17030)

When attempting to load a product from TextDB, nwrEditor crashes. The following messages are logged:

> nwrEditorWish 14600 1142012275.404632 17:37:55.404   _select_nwr_product_id() FETCH: ERROR, SQLSTATE = 42P01

> nwrEditorWish 14600 1142012275.405280 17:37:55.405 'relation   awips2nwr" does not exist' in line 612.

Problem. GFS image display causes errors under some localizations. (DR 17028)

A problem has been discovered (numerous red banners) with the GFS family in the volume menu. The problem occurs at the CONUS scale after trying to display an image from one of the fields, such as RH. The problem is not observed when displaying images on the Regional scale. Southern Region HQ (EHU) did some initial analysis by localizing as each site in their region. They have discovered the described problem on the following localizations: BRO, FWD, EPZ, EWX, EYW, HGX, JAN, LUB, LZK, MAF, MLB, MRX, SJU (Super National Scale) They do not see the problem at the other sites:

> ABQ, AMA, BMX, CRP, FFC, HUN, JAX, LCH, LIX, MEG, MFL, MOB, OHX, OUN, SHV, SJT, TAE, TBW, TSA

A possibly related problem occurs when loading a GFS procedure which has an already defined image. The procedure loads ok, but if you zoom or pan, up to 7,000 red banners pop up!

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Problem. Fog Monitor: Sometimes doesn't receive notifications. (DR 17026)

The FMprocessor on occasionally does not receive notification server signals to update. A workaround available restart the notificationServer, but we wish to investigate if the FMprocessor is inadvertently timing itself out from receiving signals. This is an OB7.2 DR.

Problem. F6 product not displaying correct snow depth level. (DR 17019)

Site BIS reported that they are having a problem with page 2 of the F6 Climate. The greatest depth for snow is showing -1. There is a trace of snow on the ground and it should be showing a T for trace.

Page 1 is showing a T, but page 2 is not.

Problem. Precipitation no calculating correctly for F6 product. (DR 17018)

Site BIS reported that they are having a problem with page 2 of the F6 Climate. The greatest depth for snow is showing -1. There is a trace of snow on the ground and it should be showing a T for trace.

Page 1 is showing a T, but page 2 is not.

Problem. Precipitation no calculating correctly for F6 product. (DR 17018)

The observed 24hr precipitation amount is missing.

Problem. LSR: Distance Problem. (DR 17017)

1) When there are two cities/towns that are close to a storm report, the LSR GUI picks the city/town which comes first alphabetically instead of the city/town which is geographically closest.

2) For a storm report in a given county, the LSR GUI will select the city/town that is geographically closest to the report, but may be located in a different count (or in some cases even a different state).

Problem. RF OB5 FCST Incorrectly processes @SETTODAY. (DR 17010)

When @SETTODAY is set to a specific date and the startrun is set to *-5, fcst is not starting at the correct day.

Problem. SCAN: Attributes maxV and its height shown in MESO Table needs to be switched. (DR 17005)

In SCAN's MESO table (launched from SCAN SCIT Table), the attribute of the height of max rotational velocity (htMxVr) was displayed in the maxVr column and the maxVr was shown in the htMaxVr column. The order of the values needs to be switched to reflect the correct values for right columns. This should be for OB7.2.

Problem. LDAD Monitor Always Shows Internal Processes Down. (DR 16957)

The LDAD monitor at most OB6 sites shows all the internal processes as being down, even though they may be up. The following processes are being shown as down:

Process|DS|listener|Inter-Gateway Communication
Process|DS|pollForData.pl|Internal-External Data Transfer

Process|PX2F|routerLdadDecoder|LDAD Decoder
Process|PX2F|routerStoreNetcdf|netCDF Storage
Process|PX2F|routerShefEncoder|SHEF Encoder
Process|PX2F|routerStoreText|Text Storage
Process|PX2F|DataController LDAD_ROUTER|LDAD Data Controller
Process|PX2F|CommsRouter LDAD_ROUTER|LDAD Comms Router
Process|DS|watchDogInternal.sh|Internal Watchdog Process

The problem is noted at BOX, MAF, SJT, OTX, BIS, OUN, RAH, PAH and others. However, it is working properly at EAX, MRX and ALY.

Problem. Tropical Cyclone Watch/Warning Product (TCV) Changes for 2006. (DR 16954)

Statement of Need Form

1. Title: Tropical Cyclone Watch/Warning Product (TCV) Changes for 2006
2. Originator: Scott Kiser, OS21
3. Submitting Authority: OCWWS
4. Description: The TCV is an experimental product issued by TPC in 2005. It is used by customers to parse tropical cyclone watches and warnings, and for dissemination of those watches and warnings. It is used by WFOs to automatically populate their hazard grids with tropical cyclone watches and warnings - land and marine based.

At the 2005 NOAA Hurricane Conference, WFO and user feedback obtained during the experimental period was summarized. The changes recommended below are for product improvement to be implemented to the TCV in 2006 in order to meet the needs of the NWS and its customers. Also changes needed in order to ameliorate tropical cyclone watch/warning errors in WFO marine products. These changes were agreed upon by NCEP, regional headquarters and WFOs at the conference.

5. Justification

5.1 Origination, Documentation, and Drivers. A total of 9 action items were brought forward on the TCV to the NOAA Hurricane Conference. Here is a synopsis of actions requested:

> Currently, the marine tropical cyclone hazard grid is automatically populated by the TCV. A software change is required to: a) allow WFOs to manually put tropical hazards into GFE/GHG for their marine zones with their own unique event tracking numbers and b) allow ingest of land zones instead of counties into the GHG from the TCV.

NCEP/TPC will:

- If the request is granted, NCEP/TPC will remove all marine zones in the TCV for 2006.
- Replace county codes with zone codes. This change is required because of the need to break large coastal counties into several zones. Requested by users.
- Add a coded string to the end of the Issuing Office line in the Mass News Disseminator. Example: AL052006. Requested by users.

Problem. Add a new warning type - VTEC phenomenon code EW"". (DR 16953)

Add VTEC phenomenon code EW"

Problem. SCAN use of county GELT. (DR 16951)

Currently, SCAN uses the WWA county GELT. In order to better serve Service backup, it is likely that using the regional county GELT would be more comprehensive.

Problem. FFMP Basin Trace hatching. (DR 16950)

Under certain circumstances, the FFMP Basin Trace hatching in the D2D is so poorly rendered that it is not usable. This has to do with the density of lines determined from the domain. if the domain is small, density is fine. If the domain is large, density can be very poor. The fix is to tweak how the hatching is done - tweak the y-scale. This will only affect the FFMP extension.

Problem. MSAS logs filling up /data/logs partition. (DR 16948)

At sites with heavy MSAS usage, the /data/logs partition on px1 is filling up. MSAS logs are kept for a 3 day period. This should be reduced to 1 day. This has fixed the problem at all sites except for EAX. Purging log files less than 1 day old should possibly be considered as well to cover all cases of log partition fill-up. Or examining why logs in /data/logs/fxa/ldad/MSAS/output are extremely large.

Problem. Uplink_send must be site aware. (DR 16947)

Prior to HazCollect, the SBN uplink processes did not need to have the active NCF site available because uplink requests would only come from the active site. With HazCollect, this no longer holds true because it is a valid operational scenario for the HazCollect processes at the inactive site to receive HazCollect messages that must be routed via the SBN. This will fail as currently implemented because the floating IP for the nmc channel will not be assigned at the inactive site. The assignment of the uplink host name is done at start up of the comm1 service in start_comms_upl_send. This needs to be modified to know about the active NCF so that it can be built into the %UPLINK_HOST strings (e.g. - nmc-ancf). Once this is determined, the comm1 service must be stopped and restarted so any SBN traffic received will be sent to the active site.

Problem. SAFESEAS: Table crashes due to localization merges. (DR 16939)

This was first reported by NCF's Kevin Johnson @ NCF, as he was participating in OB6 testing at Eastern Region's VUY system. Under certain circumstances involving multiple safeseas" localizations

Problem. NMAP: NMAP Menus become unusable. (DR 16929)

The NMAP data selection menus do not resize properly. You can see the problem by doing the following:

> Data --> New Source --> Grid.

> On the submenu that appears under grid, select ecmwfg, then dgex, then back to ecmwfg. Toggle between those two selections a few times. You will see the Grid menu first shrink, then disappear entirely. From then on, selections in any menus have odd results.

The problem occurs when using the KDE window manager on workstations running rhel3u4. It happens in ordinary user accounts and in accounts set up for AWIPS users. That is, it does not appear that there is anything special about the AWIPS user account configuration that makes this problem occur.

The problem does not occur on workstations running rhel4u2. And Steve Schotz reports that it does not occur on workstations running rhel3u6.

There is a related DR (DR_16930) to change the OB6 install instructions so users do not attempt to download a non-working NMAP version.

The problem does not occur on rhel3u4 workstations if you are using the Gnome desktop.

Problem. The customFiles/LocalCitiesInfo.txt file does not properly functioning as an override file in building the cities map. (DR 16928)

A bug was introduced in OB6 by DR 14548 (work to include a new cities shape file) that prevents the file customFiles/LocalCitiesInfo.txt from properly functioning as an override file in building the cities map background. This still works for warnGen, but not for their cities map background. At a minimum for OB6, sites need to be made aware of the workaround.

Workaround. cd to customFiles/ and issue this command:

        ln -s LocalCitiesInfo.txt cities.goodness

from that point on, running the -station task will correctly use the contents of LocalCitiesInfo.txt as an override for creating the cities map background.

The fix is to make the following modifications to makeStationFiles.csh as follows, taking this section:

        $fileGrab S A l c v LocalCitiesInfo.txt
        set scaleInfo = `$getPath ./ $data_path scaleInfo.txt`
        set nScale = `cat $scaleInfo | wc -l`
        while ($CITY_SCALE < $nScale)

and changing it to this:

        $fileGrab S A l c v LocalCitiesInfo.txt
        if (-e LocalCitiesInfo.txt) then
            $bcdProc a LocalCitiesInfo.txt ${citySup} cities.temp
            cat cities.temp >> cities.goodness
        endif
        set scaleInfo = `$getPath ./ $data_path scaleInfo.txt`
        set nScale = `cat $scaleInfo | wc -l`
        while ($CITY_SCALE < $nScale)

Note that the logic added is just a replication of some logic that already exists in the loop that follows.

Problem. MSAS Quality Control does not work. (DR 16925)

Mesonet data used by MSAS is not QC'ed in OB6. This results in anomalous surface meteorological analyses. The problem is caused by a link to a missing directory on PX1 and PX2.

To fix the problem, do the following as root user on PX1 and PX2:

cd /awips/fxa/ldad/MSAS
rm tmp_data

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mkdir tmp_data
mkdir tmp_data/raw tmp_data/raw_late
chmod -R 775 tmp_data
chown -R ldad:fxalpha tmp_data

Problem. Remove the Product Maker application. (DR 16920)

Product Maker does not seem to have correct models available for selection. Choices under sources" are AVN

Problem. LAPS Tool not working. (DR 16919)

When trying to start the LAPS tool on the D2D menu. User is given an error.

Problem. Radar OTR displays a red banner when the user closes the GUI. (DR 16918)

Upon completion of a radar OTR, the status window shows that the request executed. However, when the user closes the GUI, a red banner pops up indicating that OTR has terminated abnormally.

Problem. PostgreSQL: Must vacuum template0 regularly. (DR 16913)

This problem was discovered by Dave Cramer and Paul Tilles during the beta testing at PTR. The template0 data base is not getting vacuumed. This will eventually cause serious performance problems or failure of the postgres engine. The failure will occur sooner (~ 1 month) at sites with lots of transactions (like RFCs) and not so soon (~ 1 yr) at sites with very few transactions.

Workaround. Would be for the site admin or NCF personnel to vacuum template0 manually from time to time.

Problem. IFPS: Failed sites grids not exported during Service Backup. (DR 16910)

While performing IFPS Service Backup, the failed site's grids are prevented from being exported to the Central Server. In order for NDFD to use the Service Backup grids, the failed site's grids must be exported in a similar fashion as the primary site's grids (using rsync of course).

Problem. Using Alter function of Procedures with GFS data causes problems. (DR 16908)

Using Alter" from D2D procedures sometimes loads incorrect data. Switching from GFS80 to GFS40 causes problems with the 850mb winds. Other parameters (heights

Problem. Modify WarnGen pre-install script. (DR 16904)

The WarnGen pre-install steps for OB6 are becoming too complicated for general field sites with the change to segmentation, areal flood products and numerous bug fixes. The WarnGen pre-install script needs to be modified to preserve all OB5 templates during the OB6 install. Afterwards, the site can use the procedures to convert to the OB6 templates as time permits.

Problem. Moisture Variables on RAOB SKEW-T occasionally incorrect. (DR 16902)

The moisture variables on some RAOB SKEWT's are incorrect. The variables for precipitable water, K-index, Totals Index, LCL (and probably CAPE) can be considerably off. For example, comparing the good OB5 with the bad OB6 sounding for site ALY for January 9, 2006 at 12:00

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UTC showed the following differences:
Precip Water -- 0.49 (OB5)

IFPS: Update export_grid_data for multiple domain sites. (DR 16901)

The version of export_grid_data currently fielded has hardcoded logic specific to the dx" machines. This will not work at multiple domain sites

Surface family for Alaska mesoEta (NAM40) no longer generated. (DR 16900)

The Alaska mesoEta (NAM40) no longer gets a Surface Family generated for it in OB6. This can be replicated at GSD.

Problem. textdb sometimes stores text products using generic ZZZZZZ wmo id. (DR 16891)

For some specific text products, textdb stores them using ZZZZZZ" as wmo ids even the products have valid wmo ids. They should be stored using product's wmo ids."

Problem. RedbookPurgeInfo.txt not being moved to resultant directory after purge localization. (DR 16862)

makePurgeTables.csh is not putting a copy of redbookPurgeInfo.txt in /awips/fxa/data/localizationDataSets/<site> after a purge localization.

Problem. D2D Product Legend incomplete, LocalData|OtherPlots|15 Min Precip. (DR 16859)

The precipitation accumulation Period (15 min) is missing from the D2D product legend for the option Obs/Local Data/Other Plots/15 min Precip.

Problem. NWR Editor crashes when attempting to load a product by AFOS ID. (DR 16810)

NWR Editor crashes when attempting to load a product by AFOS ID. The workstation log showed that a segmentation violation (dirty shutdown) occurred.

Problem. HWR NWWS product not including temperatures in degrees Celsius. (DR 16808)

The HWR NWWS product is not including temperatures in degrees Celsius.
The Include Celsius attribute was toggled ON during the test.

Problem. Localization logic should use unchanged source entry if it cannot decode dimensions from the cdl. (DR 16806)

At BCQ, James Notchey found that when he ran a grids localization, it ignored his localLAPS entry. Thus, it does not generate depict keys or the cdl template or add localLAPS to any of the grids menu or volume browser.

The current entry in the localLAPS.cdl file is below. This is non-standard syntax for defining the x and y dimensions.

        charsPerLevel = 10;
        x = 300,
        y = 300,

A workaround is to change the localLAPS.cdl file to this:

> charsPerLevel = 10;
> x = 300;
> y = 300;

It cannot decode the dimensions from the cdl. This way, localization will be able to generate depict keys and the cdl template. Currently, it is leaving the entry out of the source table all together.

Problem. LDAD: Unable to collect data from HANDAR 555 gauges. (DR 16803)

During OB6 testing we discovered that DR 13967 documented the problem that no HANDAR 555 could be found to complete test case 4.5.11 (previously 4.7.16). It seems that DR 13967 was mistakenly closed. Here is the previous DRs detail description: "Here in OB3 SyAT, we are unable to dial and retrieve data from the test number (3016080977) to get HANDAR 555 test data. Melissa Porricelli looked into this and verified that the gauge is not behaving properly and she was unable to get data also. This will prevent test case 4.7.16 from being completed. When the number is dialed, a connection is made but hangs. There is no transfer of data noted in the co.log."

Problem.RHEL3u4 OB6: makeInstance.pl failing at some sites. (DR 16797)

The makeInstance.pl script is failing at some sites. The script assumes if a site is an RFC that the sites have RP's. This is not the case for several of the RFC type sites, because they did not receive RP's. These sites include NTCA, NTCC, NHCR, NHDR, WNAR, and WNOR. So the script needs to take this in account.

Problem. IFPS multiple domain setup incorrect after OB6 installation. (DR 16792)

Sites with multiple domains (AFC, VRH, TBW4) should be configured such that the servers and crons for AER run on dx1/dx2 and the servers/crons for ALU run on px3/px4. The IFPS install scripts are setting up AER on px3/px4 instead of ALU. This causes the ALU domain to be unusable after the IFPS install until the configuration is corrected and the px3/4apps packages are bounced.

There is a potential for forecast grid corruption at the WFO if this incorrect configuration remains in place.

Problem. SMM link is incorrect. (DR 16789)

Under DR16122, a link was added to NCFStatus.html to the on-line SMM. Unfortunately, at the time, the OB6 SMM was not available, so the link points to the OB5 version. This needs to be updated, now that the OB6 SMM is available.

Problem. Loading time zone shape file cause D2D to crash. (DR 16788)

The time zone shape file is not officially part of the D2D maps, but it can be loaded manually by running IGC_Process and loading key 1300. Doing this will either crash D2D right away or after several zooms. Jim Ramer has been able to verify that if one decompresses timezones.shp.Z it works fine. This is likely the same issue we dealt with dealt with decompressing mapping tables on the fly when we first went to linux.

Problem. Some fonts are not available in Enterprise 3.0 that were used on RAX applications (that are on 7.2). (DR 16785)

Some fonts are not available in Enterprise 3.0 that are used by RAX applications. This is probably because the RAX is still Red Hat 7.2. The applications are the Office productivity applications.

Problem. Remove start/stopTextDB.ds1 from OB6 worksets. (DR 16782)

Remove startTextDB.ds1 and stopTextDB.ds1 from the OB6 worksets. These scripts are no longer needed. These files are removed at the sites in the OB6 install. They should not be redelivered in OB6.0.1.

Problem. SAFESEAS OB7: Table and display our of time sync. (DR 16778)

Early bird observations, valid 15-20 minutes before the hour, are sometimes being placed in the current hourly observation file. SAFESEAS table goes blank for awhile because it can't time match (the next hour's file doesn't exist yet).

Problem. WF: textdb anomalies. (DR 16756)

The problems documented in DR 6460 still occur intermittently. Don't always get the same product version when retrieving by PIL and WMO header. This is considered minor because the original DR was written in 2000 and not closed until 2004.

Problem. Problem reading wmoSiteInfo.txt if the file contains a blank line. (DR 16751)

Fix a problem where if wmoSiteInfo.txt includes a blank line it causes RadarStorage, RadarServer and RadarTextDecoder to crash. In addition, change updateAcqParms.pl to look for wmoSiteInfo.txt in $FXA_DATA/nationalData instead of ~fxa/data.

Problem. FFMP: complaint of not finding ref_sl file. (DR 16750)

With OB6, if the FFMP display cannot find the ref_sl file, it will tell the user. But it does not tell the user that FFMP can still be used, minus the new Basin Trace functionality. The user should be informed in the text message pop-up.

Problem. Cutover to SMTP from X.400 doesn't stop NWWSProduct on DS. (DR 16747)

This can be addressed procedurally by stopping/starting ingest on the DS after the cutover script has been run.

Problem. NAS: Need to Update NAS OS and install Secure Admin. (DR 16745)

The NAS is currently running Data ONTAP 7.0x10 which is a beta versions of the OS. The NAS needs to be updated to the most currently release which is 7.01R1. Also Secure Admin 3.0 need to be installed as well in order to all ssh calls to the NAS. The current version of the OS, Secure Admin, and documentation has been put onto a CD and check into the AWIPS Library. It is CD # 3146. You can get the latest Data ONTAP OS and Secure Admin from http://now.netapp.com.

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Problem. textdb output on hp-ux data server contains errors. (DR 16741)

textdb commands (-r, -rw -rs, etc.) return a half dozen of the following errors before displaying the requested product:
sh: /awips/fxa/bin/getTestMode: not found
This is minor because (1) the requested product is output after the errors and (2) running textdb commands on the hp-ux data server will probably be a fairly rare occurrence. This error wasn't seen in earlier versions of OB6.

Problem. Remove NWEM formatter from the baseline. (DR 16737)

Remove NWEM formatter from the baseline. We are not supporting this capability in OB7. This DR should be targeted for OB7.

Problem. Precision/roundoff errors products mismatch precip values. (DR 16726)

Within the three precip programs (GagePP ingest, MPE_Fieldgen analysis, HydroView/MPE display) of WHFS, many computations involving precip data are made. IN the Hourly tables these are stored as scaled integers but are used as floating point values. In the computations, sound roundoff errors result in
differences of .01, which cause secondary mismatch problems in the apps.

Problem. GFE 17.7: datasets defined by lat/lon coords will not populate in GFE (includes WNAWAVE). (DR 16712)

Problem. IFPS: Remove obsolete files. (DR 16707)

Remove two obsolete files from the IFPS-OB6 workset. They have been superseded by a new tar file.

Remove:

     IFPS17k_RHE3_GFESuite_Linux.tgz
     IFPS17m_RHE3_GFESuite_Linux.tgz

Problem. rhel3u4 install: Site crons (/etc/ha.d/cron.d/SITE*cron) lost on rhel3u4 install. (DR 16690)

The files /etc/ha.d/cron.d/SITEpx1cron and SITEpx2cron are lost on the PXs when OB6 Phase 2 (rhel3u4) is installed. The corresponding files may also be lost on the other servers. The site-customized versions of those files wind up being replaced by template or example versions that are nothing but comments explaining how to set up site-specific crons.

According to the install logs the directory /etc/ha.d/cron.d is getting successfully saved off and then successfully restored, but sometime later in the install the SITE*cron files are getting overwritten by these generic template files.

Workaround is to restore the SITE*cron files manually after completion of OB6 phase 2. You can look in /data/fxa/backup_root/<hostname>/catalog to find the full path of the saved-off tarball for cron.d.

Problem. Fix small memory leak in RadarStorage and HandleGenericMsg. (DR 16684)

Fix small memory leak in RadarStorage and HandleGenericMsg.

Problem. GFS family display problem when using Time Options. (DR 16683)

GFS has 41 valid forecast times in Ob6. But D2D can only display 32 frames (up to 192 hours, 186 hour is not available now). To display forecasts later than 192 hours, users have 2 options. Option 1: use inventory instead of time series. Option 2: use time options to loop by 12 hours instead of 6 hours.

A problem is found when using Option 2: 500mb Height is always behind other parameters in the family. The 500mb height always starts at 00 hour while other parameters starts at 12 hours. Here is the procedure to reproduce the:

> 1) Select Options-->Time Options
> 2) Select Volumes-->GFS40
> 3) Select time resolution 12 hours

Problem. Products being sent from Cafe to CRS are failing to be sent. (DR 16682)

Problem. IIFPS MEXMOS sky grids offset by 1 hour. (DR 16669)

The IFPS MEXMOS sky grids are offset by 1 hour and need to be corrected.

Problem. rhel3u4 install: Cannot change root password after rhel3u4 install. (DR 16651)

After rhel3u4 is installed if you try to change the root password you get messages like:
RPC: Can't encode arguments. The password has not been changed on ds1-bis
It appears that passwd thinks it is trying to change a NIS password, whereas the root password is local.

Workaround is to shutdown ypbind and then restart it after the password change:
service ypbind stop passwd root
service ypbind start

Problem. rhel3u4 install: AX kickstart file corrupt if both NICs are configured. (DR 16650)

If both of the two NICs on the WAX are configured (as will be the case if there is a WES hooked up to one of the NICs), then the installation script generates a syntactically incorrect kickstart file.

When that happens the AX will not boot from its hard drive: you have to make a boot floppy and driver floppy to proceed with the OS install.

Problem. FFMP: Polar Precip rates showing the wrong hail cap. (DR 16642)

When the Polar Precip Rate display is loaded with ORPG Build 8 DHR, the Hail Cap listing is showing the wrong value. The depictable needs to adapt to the ORPG Build 8 format (this can wait until OB7 because the most important parameters, the ZR values, are correct, as is the general display).

Problem. PDC stops programs from loading after clearing PDC. (DR 16638)

When PDC is loaded then cleared, any programs loaded after clearing PDC will not be able to be loaded (e.g. radar, satellite). Something interesting to note, though, is when loading something from the Volume Browser after clearing PDC, the model selected to be loaded from the Volume Browser will load, but when you clear the model loaded, and then load PDC again, then clear

PDC again, then load a model from Volume Brower, the model will then not be loaded. While looking through the logs I found a BUG in the IGC_Process stating: BUG: unable to get composite inventory. There is also an Alert Message that pops and says No data inventory for (e.g. water vapor).

Problem. PARTIAL SOCKET writes seen with several processes. (DR 16618)

While troubleshooting DR16616 have found numerous (several hundred a day) PARTIAL SOCKET Write errors on the CommsRouter, DataController and StdDBDecodr logs on DX1. A way long time ago, these errors were seen on the AS1 causing kernel panics and reboots. These are seen on systems not experiencing the dx1 reboots currently.

Problem. dx1 rebooting at phase 3 OB6 sites. (DR 16616)

Noted an alarming trend of DX1 reboots at OB6 phase 3 sites. First seen at EHU it is now happening at several sites at the same time. For instance 8/16 both dx1-nmtw and tbw3 rebooted at ~10:16z, then on 8/17 dx1-ehu, nhda, nmtw and mrx all rebooted at ~08:41z. Prior to 8/16, dx1-nmtw had been up for 13 days and dx1-tbw3 had been up for 27 days. No obvious resource issue based on log and perfdat review. Did find numerous PARTIAL SOCKET Write errors as documented in DR 16618 though not sure if there is a direct correlation. Working with Dave Miller to see if issue may be triggered by new or changed data.

Also looking at possible memory bugs reported with 2.4.21-27 kernel though didn't see this issue until just recently and no documented instances at OB6 phase 2 sites.

Problem. Duplicate products can be added to the RPS List. (DR 16572)

If a product is submitted three plus times via the RPS List editor, two of the duplicate products will be in the end-result list, the others will be filtered out as duplicates. Duplicate products submitted to the radar will return duplicate products to AWIPS and AWIPS will then send out duplicate national products.

Problem. OTR to a failed dedicated radar connection does not return a status message to the operator. (DR 16570)

Problem. No way to access orpgBackups.txt radars using RPS List Editor. (DR 16564)

When a backup radar is 'turned on' in AWIPS OB6 + ORPG Build 8.0, the line connection works well; however, there is no way to modify/add RPS Lists for these radar connections, outside of a manual 'vi' or copy of another radars list to the backup radar. The RPS Lists for these radars are not accessible via the RPS List Editor GUI.

Problem. DX_startProcMon script causes package startup deadlock. (DR 16560)

The DX_startProcMon script ssh's to both dx1f and dx2f to see if those packages are running on the local host. The problem is that if one of those packages is disabled the other package will not start.

This also probably is not the only place this sort of thing is being done. Assuming all the floating IP addresses are up at all times at a site is not a good idea. This is sure to create a deadlock situation.

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Problem. FFMP: inconsistent basin number in lookups. (DR 16553)

This cannot happen at a field site, but can at a test site: if a radar is used for testing that does not exist anywhere near the localized WFO, there will be a mismatch between the number of basins in the small layer lookup and the number of basins in the bin-to-basin lookup, which results in repeated crashes of the FFMPprocessor, and eventually shut down, after too many re-starts.

Problem. Alaska Boundary Layer Profiler data are not stored. (DR 16547)

The Alaska Boundary Layer Profiler data are not stored and cannot be displayed. ATAN 603 installed the config files and executables in OB4, and the code was checked in OB5, but things never worked. Carl Dierking at AJK and Scott O'Donnell at FSL discovered that the format of the profiler data getting sent was not the same as the format used to develop the code. Also, the file name pattern was not the same as what was given for development, so the data were not getting to the decoder.

This has been fixed in OB5 at the AK sites under ATAN 603, and the fix will be checked into OB6 so the OB6 install won't break the AK BLP at the AK sites.

Problem. LSR incorrect file check. (DR 16542)

When opening a file, the LSR GUI tcl code has to be more careful about error catching. On the nhdw, a file's permissions were incorrectly set and the open command did not catch the error as expected (by the author) and thus, the method needs to be revisited and handled correctly. The end result was, the LSR GUI would not start, but this should not happen in the field as file permissions in the field are usually correct. This DR is intended for OB7. (See RA-032, this DR should be closed)

Problem. PDC Tables pop up on multiple workstations and monitors anywhere PDC is running. (DR 16531)

Problem. PDCtable shrinks when reloaded. (DR 16522)

Load PDC on a given pane, then clear it. When reloaded on the same pane again, the PDCtable shrinks to where only the Rank ID and the insert/update and delete buttons are visible.

Problem. Problems with the RMR_Server when a session is running while ingest is restarted. (DR 16519)

If an RMR session is running and ingest.ds1 is restarted, the RMR_Server will not restart (RMR_Server log is zero bytes in length) until the activeRadarMultipleRequests has zeroed out. Then a restart of the RMR_Server will be successful.

Problem. The ncfuser shell (ksh) is deprecated and should be updated to the Linux native shell (bash). (DR 16512)

The ncfuser shell is currently ksh which is not as well supported on the new Linux servers. It has been suggested by third tier NCF support that bash would be a better shell since that is the native Linux shell and it offers more options to the NCF. Additionally the shell scripts used for Installs and OS modifications (such as restore scripts) use bash which will allow NCF engineers to use commands directly from support scripts.

Problem. Some LDAD router processes have memory leak and consume SWAP space. (DR 16501)

Both routerStoreNetcdf and routerShefEncoder have memory leak(s) and will consume all available swap space over time. Problem also exists in OB5. Sites running processes for longer than ~1 month will have no swap available on PX2. Swap is freed when processes are exited and restarted.

Problem. patch high risk vulnerabilities on RAX (RH 7.2). (DR 16456)

DR 16413 addresses high risk vulnerabilities on the RHEL3 boxes. The RAXs will continue to run RH 7.2 in OB6. The June Harris scan revealed 29 high risk vulnerabilities on the RAX. We need to formulate an action to address these HRVs on the RAX. The action for this DR is to patch as many of the remaining HRVs as we can on the RAX --- one exception would be the kernel since we can't risk breaking functionality on the RAX nor do we want to do extra work to rebuild drivers for a new kernel.

Problem. SBN DVB related updates for OB6. (DR 16432)

Updates to support the DVB SBN uplink and downlink including NCF scripts, SBN downlink CP timeout, etc.

Problem. AF: Intermittent RPC time out (NIS) errors (Ref OB5-P DR 16439). (DR 16429)

Intermittent RPC time out errors are occurring on the DX machines. I believe this is a case of UDP packet loss. Adding an NIS slave server on the DX machines seems to fix this problem. We also should probably update the /etc/hosts.allow file to allow connections on the private LAN (10. network), and set up the /var/yp/securenets file, and configure ypserv to use the 165.92 site network only while we are at it. Note that DR14874 (Transition NIS to DX) would also fix this problem, but we may need to fix it sooner than that.

Problem. WarnGen shows multiple selections for IC in flood advisories. (DR 16416)

Even though the header for the IC group says choose 1, WarnGen does not toggle between selections. It keeps highlighting them. But when the product is created, only one is used (it appears to be the last one selected).
WarnGen should only allow one to be selected, so when another IC is chosen, the original is deselected.

Problem. processSummary.pl does not die during PX failover. (DR 16398)

processSummary.pl does not die during PX swaps, so it reports incorrectly to Netscape.

Problem. AF: remove software inventory. (DR 16394)

The software inventory capability has been removed from site HP-UX devices in OB6. It should be removed from NCF HP-UX devices as well.

Problem. ORPGReqMgr will hang the class 2 interface for a while if DialServer is terminated while RMR session is running. (DR: 16388).

It has been reported to the NCF by several sites (OB4 and OB5 sites) they are unable to get requested products from a remote radar via the RMR. The NCF would find the ORPGReqMgr

was up, but spinning through TCM KeepAlive messages at the remote radar - no data, just constant KeepAlive messages. This can go on for a long time, thus not only keeping the remote port 'captive' but precluding the requesting field from getting their products from that radar.

If the DialServer is terminated while the RMR session is 'active' this will cause the problem. Even when the DialServer is restarted and the offending ORPGReqMgr process is terminated, there might be another session in queue and the same problem CAN (not always) occur.

An ingest restart will cleanly terminate all processes, but if the DialServer fails for some reason, the ORPGReqMgr process is then owned by the system '1' and will launch the problem. During a test today the TCM KeepAlive's went on for 30 minutes until they suddenly stopped. Testing took place yesterday on TBW3 (OB6 baseline) and on TBDW (OB5).

Problem. SCAN and FFMP Data Monitor pages fail because of tbwi (the new TDWR radar). (DR 16385)

SCAN and FFMP both attempt to look at data directories of tbwi that do not exist causing the CGI scripts to fail (see errors in px1f:/usr/local/apache/logs/error_log. The workaround is to create those directories for TBWI:

> for FFMP's monitor to work:
>
> mkdir /data/fxa/radar/tbwi/tstorm
> for SCAN's monitor to work:
> mkdir -p /data/fxa/radar/tbwi/DHR/layer0/res1/level256
> mkdir -p /data/fxa/radar/tbwi/CZ/layer0/res1/level16
> mkdir -p /data/fxa/radar/tbwi/VIL/layer0/res4/level16
> mkdir -p /data/fxa/radar/tbwi/STI
> mkdir -p /data/fxa/radar/tbwi/Z/elev0_5/res1/level16
> mkdir -p /data/fxa/radar/tbwi/MD
> mkdir -p /data/fxa/radar/tbwi/TVS
> mkdir -p /data/fxa/radar/tbwi/DMD/netcdf

Problem. Warning sent out with wrong AWIPS ID (Ref OB5-P DR 16346). (DR 16345)

At JAX, a MWS product was sent out with an SVR AWIPS ID.

Problem. OB6-NCF AF: Hazcollect Product TTL . (DR 16339)

Add TTL option to comm_client so that it is easier for Battelle to know when to initiate a failover.

Problem. Logging inconsistencies make it difficult to track product processing. (DR 16325)

Logging on the lx is very difficult to follow. For example, when trying to track an HWR NWWS transmission, the transferNWWS log is in /data/logs/fxa/display/localhost:0.0/20050615. The handleOUP portion is not logged anywhere that I can find. The distributeProduct log is in /data/logs/fxa/display/20050615. It would be helpful if all of the processes on the same machine that are part of the thread of sending out a single product logged in the same directory. This is not new to OB6.

Problem. responses to archive requests via X.400. (DR 16320)

When an OB6 site sends a request to the NCF archive via SMTP, the response is sent via X.400, and the response browser never updates even though the requested products are received and available.

Problem. Disable local overrides for templates removed from warnGen (Ref DR 16261). (DR 16293)

In DR 16261, templates were removed from warnGen because the responsibility for these warnings now lies with GHG. Some sites may have custom version of these templates that override the default templates. These local overrides need to be disabled.

Problem. GFS grids needs 36 Frames in order to display the complete 240 hours. (DR 16178)

The GFS40 and GFS90 grids cannot be fully displayed in the D2D. These grids include 36 frames whereas the D2D has a max of 32 frames.

Note: The last 4 frames of the grids can be viewed individually by using the inventory feature.

Problem. AF OB6: Linux NTP broadcast clients failing to synchronize to the DX (Ref OB5 DR 16127). (DR 16128)

Linux NTP broadcast clients (cp's, px's, lx's, xt's, ...) are not synchronizing time with the DXs.

Problem. SCAN VIL Density: combine 4km and 1km routines. (DR 16059)

Original version of code split several routines to handle 4km and 1 km grids. Will now combine these routines to capitalize on common code.

Problem. RHE3 OB6: Selecting WarnGen Flash Flood Warning causes a (frame refresh) delay (Ref OB5-P DR 16100). (DR 16028)

Selecting Flash Flood Warning from WarnGen causes a slight delay before the user is able to do anything in the large pane. The more frames loaded, the longer the delay.
It almost appears that each frame is refreshing.

The delay also occurs when moving to any other Product Type while the Flash Flood Warning product button is toggled on.

Problem. CLIMATE: Eliminate redundant precipitation and snowfall amount phrase. (DR 15962)

When building the NOAA Weather Radio/CRS broadcast text for transmission (e.g., output_am_xxx.nwr) , the Focal Point uses a GUI (Report Format) to select the data he/she deems important to the listening audience. If snow is flagged and snow occurs, CRS reads 2.3 inches of snow fell today. If NO snow fell today, CRS reads no snow fell today. If no precipitation of any kind occurred, CRS read No precipitation occurred today. No snow fell today. This redundancy needs to be resolved so that the CRS reads No precipitation occurred today.""

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Problem. CLIMATE: Re-label snow on ground to 12Z snow on ground in GUI and F6. (DR 15961)

The Display Station Daily Climate Values Interface GUI currently uses the label Snow on Ground. OCWWS (Ron Berger) has requested that it read 12Z Snow on Ground" Additionally

Problem. D2D hangs for several minutes when run with GFE on the same monitor (Ref OB5 DR 15878). (DR 15881)

If you launch D2D and GFE on the same monitor, the D2D will hang for several minutes. If you do a top command on the workstation, the CPU usage for the fxaWish process goes to near 100% for several minutes. After several minutes, both the D2D and GFE are usable again.

Problem. APS does not recognize 5-character wmoID data designators (TTAAii) (Ref OB5 DR 15858). (DR 15870)

At FWD, requests for FTWWA4T are not being formatted correctly, since the returned product has the header WAUS1 KDFW ...

Problem. CL: Revise calculation of 12Z snow depth. (DR 15866)

This is how the daily snow depth for the daily morning climate must work. Morning climate always summarizes yesterday's information:

1) Initialize snow depth to missing. Then,

2) Read the snow depth data from the DSM, if available. Continue if value is still missing.

3) Read the 12Z snow depth from the METAR (the 4/sss group), if available. Continue if value is still missing.

4) Read the 12Z SCD, if available. Continue if value is still missing.

The same paradigm holds for the intermediate/evening climate products, except that you need to check to ensure that you're dealing with today's observations. If there is no snow depth in either the SCD or metar, then the default is 0.0 else the default is M missing

Problem. Performance Enhancement: move local storage of text prods (with NO_STORE) to a local device. (DR 15697)

Currently, the acqserver process makes a temporary copy of ALL data as it arrives, then either moves of copies the data to a directory specified in acq_patterns.txt The data that is tagged NO_STORE" is never moved to a directory.

Problem. WFOA: Discontinue building unnecessary executables on HP. (DR 15689)

With the port of most of WFOA to linux in OB6, many of the exe's being built in the HP build are no longer needed. This will help decrease the time for the HP builds of WFOA. Current time for a full clean build is approximately 15 hours.

The makefiles creating these exe's should be modified to discontinue building on the HP.

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Problem. Integrate FSL OB5.1 code into OB6 - WarnGen Hydro - (revolving) (Ref OB5 DR 15687). (DR 15688)

Integrate OB5.1 code into OB6. See the WarnGen Hydro Requirements listed in the Action Description for the functionality being integrated.

Problem. Obsolete CDL and HTML files for AVN/MRF grids. (DR 15608)

In OB6, GFS GRIB2 grids will be added thus GRIB1 AVN/MRF grids can be phased out. The following obsolete files should be removed from PVCS by NGIT:

> D-2D/src/dm/grid/
> avn201.cdl
> avn202.cdl
> avn203.cdl
> avn211.cdl
> avn213.cdl
> avn225.cdl
> mrf201.cdl
> mrf202.cdl
> mrf203.cdl
> mrf204.cdl
> mrf205.cdl
> mrf213.cdl
> D-2D/src/dataMon/
> NHEM201AVN.html
> NHEM201MRF.html
> CONUS202AVN.html
> CONUS202MRF.html
> CONUS213AVN.html
> CONUS213MRF.html
> CONUS211AVN.html
> AK203AVN.html
> AK203MRF.html
> HI204MRF.html
> PR205MRF.html

Problem. Grid clipping is hardwired to regional scale which does not work well for AK sites (Ref OB5 DR 15585). (DR 15586)

Grid clipping in AWIPS up to now has been hardwired to center over the regional scale or its analog, which for Alaska is the whole state. This does not work up there when they need a small area clipped out over their WFO.

The fix is to enhance gridUtil.csh such that one can optionally pick a different area to center grid clips over than the fixed regional scale. The fix is potentially useful to other sites as well.

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2.9 OB6 b0a

Problem. Setting up NWRWAVES triggers causes all triggers for the products set up to fail. (DR 16635)

After setting up NWRWAVES triggers, triggers for the products set up for NWRWAVES stopped working. Here is what we added to /data/fxa/siteConfig/textApps/siteTrigger.template:

> SFOTORSTO /awips/adapt/NWRWAVES/nwrwaves.csh

> SFOSVRSTO /awips/adapt/NWRWAVES/nwrwaves.csh

After adding these lines and running mainScript.csh -trigger we no longer got triggers from SFOTORSTO and SFOSVRSTO.

Problem. Hydro/VTEC OT&E: Test Mode Control application hung on lx5-tbw3 and xt5-tbw3. (DR 16628)

During Hydro/VTEC OT&E testing, the Test Mode Control Program hung on lx5-tbw3 and xt5-tbw3 when switching to TEST mode. Caused by having a different user logged into the xt than on the lx. Reboot of both lx and xt did not clear up the problem.

Problem. Hydro/VTEC OT&E: WMO id incorrectly inserted into MND header upon SEND from textWS. (DR 16627)

During Hydro/VTEC OT&E testing, while in TEST mode and issuing either an FLW or FLS product, the product looks ok when created but when you hit SEND and OK at the stop sign, you get an error because the WMO header info was inserted into the MND header. Closing and restarting D2D and the textWS stopped the problem.

Problem. Hydro/VTEC OT&E: After dropping and recreating the textdb, one workstation still thought 38 was next ETN. (DR 16624)

During Hydro/VTEC OT&E testing, to test ETN sequencing, we dropped and recreated the textdb first thing in the morning. On lx1, the first product created had an incorrect ETN of 38. It appears that because the D2D had not been logged out when the database was dropped, the workstation remembered" the next ETN. The QC caught the discrepancy and offered the correct ETN to select and use. After D2D was logged out

Problem. Hydro/VTEC OT&E: lx1-tbw3 experience a SLO. (DR 16621)

During Hydro/VTEC OT&E testing, lx1-tbw3 experienced a spontaneous log out (SLO) while running WarnGen Areal Flood Warning Scenario for immediate cause (IC) set to ice (IC). All lx3 display logs have been saved to /data/local/lx1_SLO. This is the first reported SLO in a long, long time.

Problem. Hydro/VTEC OT&E: Several more instances of misleading or incorrect QC messages on FLS CON, CAN, EXP. (DR 16620)

During Hydro/VTEC OT&E testing, received several more instances where the QC message template may be incorrect" when doing CON

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Problem. Hydro/VTEC OT&E: inconsistent behavior for selecting non-contiguous counties in warnGen and the lat lon boxes created. (DR 16605)

During Hydro/VTEC OT&E testing, when creating an FLS, warnGen allows you (correctly) to select non-contiguous counties with the mouse. However, the lat lon boxes that are created as a result are connected (not separate). (Text product WGUS81 KBOX 161416 available).

Problem. Hydro/VTEC OT&E: need improvements to calculating variables in RiverPro. (DR 16604)

During Hydro/VTEC OT&E testing, while testing RiverPro, it was noticed that there is a need for nationally created RiverPro templates containing a set of comprehensive condition statements that will capture correct above/below flood stage, create, crest time, event begin/end time. As time progresses during an event, the relationship among the latest obs, next valid forecast, etc., changes and therefore the algorithm calculations of the variables listed above change and can be incorrect which in turn, result in incorrect

VTEC and product wording (see DR 16603). The algorithms are extremely sensitive to small changes in obs, forecast time, and the relationships among these variables.

Problem. Hydro/VTEC OT&E: multiple discrepancies in generated text messages (FLS and FLW) on xt3-tbw3. (DR 16600)

During Hydro/VTEC OT&E testing, while running RiverPro scenarios, the following discrepancies were noted in the generated text messages:

1) Scenario 3, step 1, FLW: The flood begin time is all zeros in the H-VTEC line.
2) Scenario 3, step 2, FLS: The action code EXT should be CON; flood begin time is all zeros.

Problem. Hydr/VTEC OT&E: the product expiration time range is shorter than expected. (DR 16599)

During Hydro/VTEC OT&E testing, discovered that the expiration (EXP) action is not available at the 10 minute mark but it was available at the 9 minute mark. The times are prior to the expiration time in the product. It appears that the EXP action is available at +9 mins to -9 mins rather than the expected +10 mins to -10 mins. (during testing of FLS on lx3-tbw3)

Problem. Hydro/VTEC OT&E: the warnGen map displayed different counties than original map when COR issued to FLWBOX on lx5-tbw3. (DR 16592)

During Hydro/VTEC OT&E testing, while running an Areal Flood Warning Correction test, the COR to the FLWBOX was ok. However, the warnGen map displayed counties not in the first warning. (Screen capture available.)

Note (V.D. - Jim Ramer was able to replicate the problem   To replicate, create an Areal Flood Warning. Move the box where you want it, then toggle the covered counties on so the entire county is included in the warning. Send the warning. Next, create a correction based on this warning. Often, additional bordering counties will now be included on the display. The wording of the warning will not include these additional counties, just the display is incorrect.

Problem. Hydro/VTEC OT&E: Hydro QC errors on flood advisory FLSBOX and FLSBOX COR on lx2-tbw3. (DR 16589)

During Hydro/VTEC OT&E testing, created a new hydrologic flood advisory and the QC software popped up a warning stating that the headlines may be inconsistent with the VTEC coding (see tbw3 /home/koppsje/hydroqc.png). Then, tried to issue a COR and received another QC warning (see tbw3 /home/koppsju/hydroqc.png1).

Problem. Hydro/VTEC OT&E: RiverPro crest time error and flood end time error. (DR 16587)

During Hydro/VTEC OT&E testing while running the RiverPro test scenarios on lx1-tbw3, the displayed crest time was wrong and the EXT was recommended with a flood end time in the past. RiverPro does not recommend CAN with out obs below flood stage (obs not equal to flood stage). Screen captures available. Jeff Zimmerman has copies of screens.

Problem. RFC postgres trigger functionality does not work. (DR 16565)

In testing I discovered that data base triggers were not working on TBDR. At first I thought it was just an error in ./mainScript.csh -trigger. RSA-hydroSiteConfig.txt had a blank line between "www PHX" and "SRUS71 KWBC," which resulted in a bad fxatextTriggerActions.txt file and a database error while trying to run ./mainScript.csh -trigger.

Once the line was removed, ./mainScript.csh -trigger was run without any errors but triggers were still not working.

TBDW (WFO) triggers seem to be working correctly.

Workaround. Remove blank lines in RSA-hydroSiteConf.txt and also remove lines with rrr in RSA-ldadSiteConfig.txt.

2.10 OB6 b0

Problem. WarnGen: WarnGen Migration scripts need to be more verbose. (DR 16609)

The WarnGen migration scripts need to provide more feedback to the user. In particular the following scripts need some echo commands added to them: ob6-initMigHost.csh, ob6-newTemplates.csh, ob6-oldTemplates.csh, ob6-wgnPratice.csh, ob6-tempVTEC.csh, ob6-migrateDone.csh, and ob6-syncHost.csh

Problem. WAX OB6: Archive GUI still Displays 7 days. (DR 16568)

With the fix for DR 16498 we are only Archiving off 5 days of data, but the Archive Compressor GUI is still showing 7 day worth of data. The user will see two days in the GUI with a day and no date. This does not cause any problems with the Archive software, and appears to be only a cosmetic issue.

2.11 OB6 b2

Problem. RHEL3u4: Faillog broken with RHEL3u4 upgrade. (DR 16654)

In order to fix DR 16369 the default /etc/pam.d/system-auth file will be used instead of the AWIPS one. As a result the faillog capability for the Linux Workstations and xTerms will be broken.

2.12 OB6 b3

Problem. RHEL3u4: rp_racip_config.sh fails to run during upgrade. (DR 16681)

The rp_racip_config.sh which is run at RFCs to re-IP the RAC ports on the RP's fails to run during install. The script looks to be in a dos format and needs to be converted to UNIX. Also the script is looking for a tar file which is not present and fails to install racadm. As a result the RAC port do not get updated.

2.13 OB6 b4

Problem. DB: TextDB Reader fails to stop. (DR 16703)

I have noticed on several occasion where the TextDB Reader fails to stop. I have seen this happen during a failover or even just running a stopTextDB.dx1. If the Reader does not die it causes a problem when a new reader is started because it can not open the socket to the database, and in some cases killing the old Reader it does not clear the socket. When this happens the machine where the reader was running needs to be rebooted in order to fix the problem

Problem. build_dns does not update Linux Workstations/xTerms above nine. (DR 16696)

The build_dns script does not update Linux workstations and xTerms above lx9/xt9. There are several sites that have lxa-lxj/xta-xtj and the scripts does not update them.

Problem. OH: RAX database tokens missing from .Apps_defaults. (DR 16692)

The following RAX database tokens are missing from the .Apps_defaults file:

> adb_name   : adb_ob1sss # RFC archive database name
>
> adb_server   : adbs   # RFC archive server name

As a result none of the RAX processes can connect to the Informix Database. The critical one is adb_server. The other is not needed.

2.14 OB6 b5

Problem. HYDRO/VTEC: Warning Expiration boxes are not working correctly. (DR 16736)

While retesting the HYDRO/VTEC DRs generated during OT&E, it was noted that the warning expiration boxes are not working correctly. This is related to the Failure of DR 16575. The warning expiration window appears to be working correctly for TOR, SVR, SMW, and FFW products. The problem is that a textBotifyExpiration.tcl message appears whenever you transmit a statement. These boxes will become extremely annoying during severe weather. BCQ also reported the problem. Testing occurred on lx2-tbdw.

Problem. HYDRO/VTEC: In EXT, the forecaster is unable to change the basis statement and CTA. (DR 16735)

While retesting the HYDRO/VTEC DRs generated during OT&E, it was noted that when doing an Extension in Time, the forecaster is unable to use the previous warning's basis statement and Call to Action statement. The forecaster is unable to change the basis statement and CTA in the

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WarnGen GUI. The default is to use Trained Weather Spotter reported Flash Flooding from a Thunderstorm over the warned area" with no CTA. Testing occurred on lx2-tbdw."

Problem. HYDRO/VTEC: Loss of VTEC with creation of Hydro product. (DR 16734)

While retesting the HYDRO/VTEC DRs generated during OT&E, it was noted that VTEC was lost while creating a product in WarnGen. First, the ETN was not recognized in the follow-up list on the WarnGen GUI. While reproducing the product (flood advisory), VTEC came back into the product on the text workstation. All of this occurred while in Test Mode. After closing WarnGen and restarting it, the problem did not recur. Testing occurred on xt3-tbdw.

2.15 OB6 b6

Problem. NWWSSchedule and NWWSProduct do not seem to handle serial disconnects. (DR 16764)

During both SyAT and SyAT Dry Run testing we have noticed that NWWSSchedule and NWWSProduct are crashing. It seems to correspond with changes to the serial connection going from the PX to our Weather Wire simulator. These serial disconnects may be isolated to our test configuration since we have an ABCD switch to allow our Weather Wire simulator to be connected to any of the testbed's PXs. Additionally our tests involve switching between PXs via the VIR switch.

This may not be an issue when NWWSSchedule and NWWSProduct have a real Weather Wire connection.

It would be nice if these processes could handle the serial disconnects - but this may not be necessary at an operational site.

Problem. INSTALL: prepare_OB6 fails to run at a RFC. (DR 16755)

There was a check put into prepare_OB6 to make sure a site has install IFPS 17.6 before installing OB6 Phase 3. The problem is that IFPS is not installed at a RFC. SO the check will fail and the script will exit. This is a two line change to prepare_OB6 to check the SITE_TYPE before doing the IFPS Release ID check. The fix is ready to be check in. The work around it to have the RFCs create the /awips/IFPS_Release_ID file with 17.6 in the file; then remove the file after the prepare_OB6 script is run.

Problem. DB OB6: restore_pgdb table option not working. (DR 16749)

The restore_pgdb is used to restore the Postgres databases. You can use it to restore a single database or all the databases, and this work. The script also has an option to restore a single table and this is not working. When you restore the table it is being put in template1 and not the database it belongs to.

2.16 OB6 b6a

Problem. Safeseas Anchor" is occasionally incorrect". (DR 16760)

While running the SyAT test case for Safeseas, noticed that the Safeseas Anchor" is occasionally incorrect.

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2.17 OB6 b8

Problem. Table Access privileges incorrect for Postgres databases on OB6 Beta sites. (DR 16780)

The table access privileges on the Postgres databases are incorrect. The privileges should be set to pgsuer, but are currently set to postgres. This is a result of DRs 16009/16717 where PGUSER was set incorrectly to postgres. As a result of this users are unable to access/modify values in the databases. This is affecting climate, lsr, and other applications. The databases with the incorrect privileges are fxatext, hmdb, lsrdata, ifps_ccc, and wwa_ccc. OHD databases are unaffected. Currently there are only two ways to fix this:

1) Drop the databases in question and re-migrate them to postgres, and loose possibly months of data.

2) Drop the databases in question, do a pg_restore of the databases from the backup, and then issue the following sql commands on each table in the database

revoke all on table_name from postgres;

grant all on table_name to pguser;

This only affects the pre OB6 Beta 8 sites, and not a fresh OB6 install. An e-mail has been sent to Dave Cramer of Postgres to see if there is an easier way to fix this, but this must be fixed ASAP. A script is ready to fix this problem, and takes about an hour to run and requires ingest to be down and site logged out.

[Note: If any of the databases are corrupted. This Step one will need to be done for that database.]

Problem. RHEL3u4: Sound does not work after upgrading the kernel on the xTerms. (DR 16777)

After upgrade the kernel to 2.4.21-32.0.1.EL sounds does not work on the xTerms. I have found several entries in the Dell Forums complaining about i810_audio-2.4.21p-6dkms not working after upgrading the kernel. The suggested fix is to install i810_audio-2.4.21p-5dkms version till a new version is available.

2.18 OB6 b10

Problem. WF OB6: PurgeProcess not killed when px1apps fails over. (DR 16801)

DR 15629 changed the way that the purgeProcess is run. Instead of being in the startIngest.dx1 script it was moved to a cron which runs every 10 minutes. The problem is that is px1apps is failed over the purgeProcess is not killed and there could be the possibility of two purgeProcesses running at the same time. So the px1apps script need to be modified in order to kill the purgeProcess when the px1apps package is being halted.

Problem. Need to cleanup /data/fxa/backup_root and /data/fxa/install_root. (DR 16746)

During OB6 Phase 2 two directories are created under /data/fxa. This directories eventually need to be cleaned up. The directories in question are /data/fxa/backup_root and /data/fxa/install_root. This DR is intended for OBx.

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2.19 OB6 s1

Problem. RiverPro: Needs to allow for forecasters to be working on 2 separate rivers in the editor at the same time. (DR 16224)

RiverPro needs to allow for forecasters to be working on 2 (more than 1) separate rivers in the editor at the same time. Currently, you are restricted to a single Create --> Issue sequence by 1 forecaster. The editor does not allow 2 people to create at the same time" or issue at the "same time." The need to have multiple create/issues arises during busy situations."

Problem. In WarnGen QC, the cursor focus should follow the highlighting. (DR 16217)

This is an enhancement request. WarnGen QC, highlights the text requiring change but the cursor focus stays at the top of the document. It would be more user friendly if the cursor focus moved to the highlighted text. (Targeted for OBx)

Problem. Warnings are disappearing in WarnGen. (DR 16051)

2 FFWs disappeared after issuing CORs. The had ETN 0002 and 0005. All other FFWs/CORs worked fine. Nothing was done differently with the two warnings that disappeared.

2.20 OB6 s7

Problem. WARNGEN uses duration setting from current time for EXT option. (DR 16270)

When doing an ext for a flood product, the new expiration time that will be used is hard to determine. WarnGen uses the duration setting, which is maintained from the last issuance of that ETN. This duration is added to the current time.

So for a FF.W originally issued for 45 minutes with an expiration time of 22z, doing an extension at 2145 will result in a new expiration time of 2230z. This will not be intuitive for the forecaster and will cause confusion.

2.21 OB6 phs1

Problem. Dislike new way to start D2D. (DR 16452)

"Several comments of dislike of the 'new' extra step when left clicking to start D2D. When you left click, you get a button pop-up saying 'AWIPS' which you have to select in order to get the AWIPS startup menu."

Problem. Inconsistent mouse behavior. (DR 16451)

"On desktop behavior, we noticed some inconsistencies in how the mouse pointer behaves between the different screens. On screen 0 the mouse always appears to behave normally, however, on screens 1 and 2 we observed a number of occasions where the mouse pointer would change to a large 'X', when it really should have been a normal pointer. You can easily see this behavior by popping up the root window menus. On screen 0 when the root window menu comes up, you get a normal pointer. On screens 1 and 2, you get the 'X' pointer. Most critically, we observed this behavior within WarnGen windows. The 'X' mouse pointer within a WarnGen window could mislead field staff into thinking that something is wrong."

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2.22 OB6 phs2

Problem. MDCRS plots/ACARS soundings not working in OB6 Phase 2. (DR 16460)

After the installation of OB6 Phase 1, the MDCRS data was no longer available. The MDCRS plots are not available and the ACARS soundings are also not available.

2.23 OB6 phs2/3

Problem. RHEL3u4: Issues with NWWSchedule and NWWSProduct after OB6 Phase 2. (DR 16689)

Site EAX has had issues with NWWSchedule and NWWSProduct crashing with OB6 Phase 2. It looks like the NWWSTransmit hangs and no more products are sent out. Eventually NWWSchedule will crash which causes NWWSProduct to shutdown.

2.24 OB6.X

Problem. procedure for cutting over to SMTP from X.400 (Ref. OB7.2 DR 16781). (DR 17510)

The nwwsup_dlist.data file defines a site's nwws uplink sites. This file is not delivered as part of the baseline because sites do not want it to be overwritten with each install. When sites cut over to SMTP from X.400, they will need to copy the nwwsup_dlist.data file from the DS1 to DX1 and DX2. This step should be included in the procedure that is developed for the cutover.

Problem. Set Time Feature Hangs D2D. (DR 17630)

Ray from CYS reported to the NCF that when they attempted to use the Set Time Feature in D2D, it would hang the whole application.

Steps to re-create:

> Left click on time display in lower-right hand corner of D2D. This displays the set time GUI.

This action will sporadically cause an application stating that the Grab Failed..."

Problem. Overview product (OVR) is being assembled with an invalid CRS Message header. (DR 17500)

Problem. Products that are being cancelled/expired/upgraded per VTEC coding use generic wording (not the segment wording) for the 10 minute cancellation message. (DR 17499)

Problem. Numerous sites reporting awkward marine zone intro phrasing, for example FOR IN LAKE SUPERIOR"". (DR 17498)

Problem. NWRWAVES: Optional issuance time phrasing does not contain the timezone(s) resulting in a confusing message. (DR 17497)

Optional issuance time phrasing does not contain the timezone(s) of the counties/zones in the broadcast

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Problem. NWRWAVES will crash with an error pointing to the inability to copy. (DR 17494)

In rare instances, NWRWAVES will crash with an error pointing to the inability to copy the file from the QUEUE to the INPUT directory.

Problem. Optional county/zone list phrasing has been cleaned up to remove extraneous whitespace.. (DR 17493)

Optional county/zone list phrasing has been cleaned up to remove extraneous whitespace. This was done to reduce problems associated with expected behavior via the WordFile.txt replacement.

Problem. MRD replace does not seem to be working for some of our upgraded or downgraded/replaced VTEC hazards. (DR 17492)

MRD replace does not seem to be working for some of our upgraded or downgraded/replaced VTEC hazards". In the case of a multiple-VTEC line containing a UPG or CAN action there is coding flaw where the cancellation/upgrade message may not be generated by NWRWAVES.

Problem. NWRWAVES: CRS will crash when receiving an NWRWAVES message. (DR 17491)

CRS will crash when receiving an NWRWAVES message under the following condition: The original product segment contains multiple VTEC lines and is assigned to generic message type.

Workaround. Mandatory use transmitter specific messages for products that may contain multiple VTEC lines.

Problem. NWRWAVES: the word County" was being incorrectly appended in the NWRWAVES created county/zone list." (DR 17490)

For both zone and marine based products, the word County" was being incorrectly appended in the NWRWAVES created county/zone list."

Problem. NWRWAVES: potential for county/zone codes to be duplicated within the CRS message header. (DR 17489)

For the overview product, as well as those products assigned to generic message type, there is the potential for county/zone codes to be duplicated within the CRS message header. Furthermore, the duplicated county/zone codes would also be re-iterated in the optional intro and repeat headline statements created by NWRWAVES.

Problem. NWRWAVES: The outbound message cannot be processed by CRS and will generate an alarm.. (DR 17488)

For products assigned to generic message type, if the product contained no UGC coding (e.g. Record Event Report - RER), the outbound message generated by NWRWAVES contained a malformed LAC list. The outbound message cannot be processed by CRS and will generate an alarm.

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Problem. LSR not able to retrieve Save Event products (ref. 17025). (DR 17341)

Unable to retrieve LSR events when saved with the Save Event button. No events are found when clicking on Fetch Events under Event Log tab. The work-around: the user is able to retrieve saved products when saved by clicking on the Save Event and Preview for Transmission button. The problem has been isolated as an OB6.1 issue based on running the Raytheon LSR test case on OB7.1 and OB6.0 systems successfully. This problem has been confirmed to be a result of code changes associated with DR 17025 by Tom Filiaggi.

DR reassigned from OB6.1 to OB7.1 at the TSR meeting held on 05/10/2006 - Shawn Hooper

Problem. Installation scripts and file check in. (DR 17332)

Needed a DR to check in OB6.1 installation scripts and files necessary for installation.

2.25 OB6.0.1

Problem. Key West Site Identifier Change (IFPS). **(DR 17109)**

The WFO site has changed their site ID from EYW to KEY. All ifps files that reference this identifier need to be updated to reflect this change.

Problem. CLIMATE: New Time Zones Not Reflected for Stations Switching from EST to CDT. (DR 17083)

Issued the Morning Daily Climate product for these stations (Bloomington, Columbus, Fort Knox and Huntingburg). Verified the text message output - the first three station time zones changed to 'EDT' as expected. However, the Huntingburg time zone displays as 'EDT' instead of 'CDT'. Since Huntingburg is located in Dubois county it is switching from Eastern time to Central time at April 2, 2006 at 2:00AM.

2.26 OB6.0.2

Problem. afos2awips.txt in noaa1 does not contain necessary changes for Key West ER. (DR 17348)

afos2awips.txt in noaa1 does not contain necessary changes for key west ER. We have to get the file from TOC web site and make some necessary changes in order to make it work

Problem. Installation scripts for OB6.0.2 Key West ER. (DR 17338)

Main installation scripts and other required files for OB6.0.2 Key West ER

Problem. SAFESEAS Table Shrinks When Zooming-In. (DR 17305)

With SAFESEAS up, click on any zone under the Area_Id column that contains data to zoom-in. The SAFESEAS Zone Table will shrink to a height where you can only see the column headers. It will not allow you to resize. Please note that while this problem was seen during Key West testing, it was not caused by the Key West changes. As noted above, the bug has also been seen recently on NHDA (OB7.1, LWX localization).

Problem. LSR: KEY WEST Site ID Changes. (DR 17120)

The site identifier for the key west wfo needs to be changed from EYW" to "KEY". This change must be applied to all flat file DB's that LSR uses."

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Problem. IFPS:remove obsolete files from workset. (DR 17107)

The following files should be removed from the OB6.0.2 workset and ANY CM ASSOCIATED WORKSETS. In OB6, most of the following files were released on CD to the field. These files were not in the IFPS:OB6 workset, but were left over in some CM workset that is used for the final distribution -- thus I did not see them. Apparently some of these were removed from the IFPS workset, but not the integration workset used by Raytheon/Keane for distribution of the release.

Most of these files were OB5 IFPS17 documentation and release note files which are obsolete for OB6, and OB6.0.2.

  gfe/CHANGES_IFPS17a.html
  gfe/CHANGES_IFPS17b.html
  gfe/CHANGES_IFPS17c.html
  gfe/CHANGES_IFPS17d.html
  gfe/CHANGES_IFPS17e.html
  gfe/CHANGES_IFPS17f.html
  gfe/CHANGES_IFPS17g.html
  gfe/CHANGES_IFPS17h.html
  gfe/CHANGES_IFPS17i.html
  gfe/CHANGES_IFPS17j.html
  gfe/CHANGES_IFPS17k.html
  gfe/CHANGES_IFPS17l.html
  gfe/CHANGES_IFPS17m.html
  gfe/CHANGES_IFPS17n.html
  gfe/CHANGES_IFPS17o.html
  gfe/CHANGES_IFSP17p.html
  gfe/CHANGES_IFPS17q.html
  gfe/CONFIG_IFPS17a.html
  gfe/CONFIG_IFPS17b.html
  gfe/CONFIG_IFPS17c.html
  gfe/CONFIG_IFPS17d.html
  gfe/CONFIG_IFPS17e.html
  gfe/CONFIG_IFPS17f.html
  gfe/CONFIG_IFPS17g.html
  gfe/CONFIG_IFPS17h.html
  gfe/CONFIG_IFPS17i.html
  gfe/CONFIG_IFPS17j.html
  gfe/CONFIG_IFPS17k.html
  gfe/CONFIG_IFPS17l.html
  gfe/CONFIG_IFPS17m.html
  gfe/CONFIG_IFPS17n.html
  gfe/CONFIG_IFPS17o.html
  gfe/CONFIG_IFPS17p.html
  gfe/CONFIG_IFPS17q.html
  gfe/IFPS17o_RHE3_GFESuite_Linux.tgz
  gfe/IFPS17q_RHE3_GFESuite_Linux.tgz

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The following file should be removed from the IFPS:OB6.0.2 workset and any associated CM worksets. This file is obsolete and has been replaced with the updated version of the GFE software:

> gfe/OB6a_RHE3_GFESuite_Linux.tgz

2.27 OB6 Final

Problem. Stop sign" dialog box for Panic mode on Text Workstation displays incorrect text message.". (DR 16854)

In Panic mode, after the user has sent the HAzCollect products the Stop sign" dialog box for Panic mode on the text workstation should display the correct text message indicating that "The Workstation is in PANIC mode" instead of "The Workstation is in Test mode" or "the Workstation is in Practice mode"."

Problem. HydroBase/HydroView Form E-19 displays need adjustments. (DR 17155)

The E-19 text report includes control characters, originally used for printing options. The report needs to have these removed and adjustments made to ensure that page breaks and general printing features are proper.

Problem. Sound not working after new user logs in on some workstations. (DR 17138)

The artsd is locking /dev/dsp. /dev/dsp remains owned by previous user. A workaround was crated to edit /home/<user>/.kde/share/config/kcmartsrc. A timeout of five seconds was added in the arguments line. The kcmartsrc file was pushed around to all users who had not done the workaround, and so now they just need to log out and back in for it to work.

Problem. HydroView QC GUI window doesn't fit characters. (DR 17154)

The HydroView Questionable and Bad Data display window cuts off data. This is a minor problem but should be fixed.

Problem. HydroGen uses incorrect crest data. (DR 17153)

The HydroGen application extracts crest data from the IHFS database without checking that the crest is actually the official record crest, as it must be for it to be considered by HydroGen. The output of HydroGen is used to populate AHPS web page graphics.

3.0 RELEASE OB5 AND PRIOR

Problem DUMPTS command halts with a FORTRAN Error. (DR 17865)

The DUMPTS (dump time series) command in PRDUTIL (NWSRFS) halts with the following output:

> PGFIO-F-235/formatted write/unit=98/edit descriptor does not match item type.e

The input file is correct. In fact it is one of the examples in the documentation.

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Problem. RF OB5 ENS_Post_CP sometimes generates a memory fault. (DR 17853)

When running ens_post_cp with the input file ISAC1_post_cp the program fails with a memory fault towards the end of the run. A parameter and .cdf file gets created from the ens_post_cp run (these files are located in the ens_input directory under the directory error_model. (r24-35)

Problem. FFMP: default all-and-only-small-basins yields no names (xxxxx). (DR 17815)

If FFMP is started with the default layer set to All and Only Small Basins, each basin antry in the Basintable will not have a name and be labeled with "xxxxx". Early diagnosis of this problem (back when this issue was first recorded in MDL's FRA) incorrectly concluded that not all names were lost and that only some were labeled with the "xxxxx", which is as expected. Recent testing yielded verification that indeed all were being labeled as "xxxxx', thus this needs to be fixed. Note that this only happens when the All and Only Small Basins is the default layer (which we have consistently recommended against) and is worked around by changing layers to another layer, then back to All and Only Small Basins.

Problem. Missing lnformation in county_type.abbrev for SJU. (DR 17683)

The data file /data/fxa/nationalData/county_type.abbrev needs to be updated with the information for Puerto Rico and the Virgin Islands.

Problem. Unable to retransmit a short-duration warning. (DR 17576)

When VTEC was first implemented in short-duration warnings, the ability to retransmit a VTEC warning was in place (see weather.gov/os/vtec/ReTrans.html) In OB5 this functionality disappeared. This problem continues in later builds.

This causes a problem because WFOs cannot retransmit a warning to users who may have missed the transmission (EMA, sherrif). The ETN is always incremented which gives the impression of a completely new wanring and causes a new NWR alarm, TV crawl, verification problems, etc.

I tried a suggestion by Xiangbao Jing and still saw the ETN increment. It also had the side effect of causing the original warning to be removed from the textdb. The log files from lx3-nmtw are being captured and can be provided if needed.

Problem. Remove unused NAM40 and NGM80 precipitation products. (DR 17396)

The following parameters are not generated, and should be removed from the D2D Volume Browser: NAM40 - 36hr and 48hr Snow Accumulation; NAM20 - 48hr Accumulated Precipitation; NGM - 48hr Snow Accumulation; and NGM80 - 48hr Accumulated Precipitation.

Problem. Sites are reporting SUNNY or MOSTLY sunny at night when it should say clear (DR 17174)

> NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO
>
> SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.
>
> WIZ001-002-006>008-014>016-023>028-191000-
>
> NORTHWEST WISCONSIN
>
> CITY SKY/WX TMP DP RH WIND PRES REMARKS

SUPERIOR ARPT CLEAR 1 -6 71 SW13 30.26F WCI -16

ASHLAND CLEAR 2 -8 64 SW14 30.26F WCI -16

HAYWARD CLEAR -1 -8 73 SW3 30.28F

RICE LAKE PTCLDY 0 -8 71 SW6 30.35F WCI -12

LADYSMITH MOSUNNY -4 -4 100 CALM 30.35F

<---Here

EAU CLAIRE CLEAR 1 -8 67 SW9 30.39F WCI -14

NEW RICHMOND CLEAR 1 -4 78 SW8 30.38F WCI -12

OSCEOLA PTCLDY 1 -6 71 SW6 30.40F WCI -10

SIREN PTCLDY 3 -8 60 SW14G20 30.32F WCI -15

Problem. FFMP: relocalization file cleanup. (DR 17158)

In the FFMP localization, old basinLayer*.dat files are not removed, which means, if subsequent localizations have different basinLayer?.dat files, some old files may stick around and cause problems in display if chosen. This should be rare, and is likely at the 'high number' end (the 'smaller' aggregation level), so it may not be used much anyway. No site has reported any probelms yet (and we have had all of OB5 for things to come in). This DR is intended for OB7.2.

Problem. MSAS observed wind plots are about 20 degrees counterclockwise to the METAR winds. (DR 17108)

The MSAS observed wind display is erroneous in that they are about 20 degrees counterclockwise (to the left) of the winds from the METAR observations. GSD is aware of this ploblem and they will "... make a note to unrotate the winds before the netCDF storage in a future version..."

Problem. GFE: WxPhrases: Matt Belk - visibility should filter rankList. (DR 17100)

This is a GFE Text Formatter Infrastructure Enhancement. The WxPhrases module's visibility_words function should filter the rankList so we don't consider visibilities from Wx subkeys which aren't to be reported in the text.

Problem. GFE: ViewWCL: aborts if no data within 6 hours of present. (DR 17099)

This is an improvement to the ViewWCL procedure that is used for the Watch-By-County program. Currently if this procedure is run and there is no data available or if the data is older than six hours, the procedure aborts ungracefully. The change will display a message indicating that the data is old or no data is available.

Problem. GFE: Total Snow and Storm Total Snow Changes. (DR 17098)

This is an enhancement to the GFE Text Formatter Infrastructure. This changes the behavior of the Storm Total and Total Snow phrases and how the data is analyzed to determine the totals.

Problem. GFE: Infra: MultipleElementTable for update issuances. (DR 17097)

This is a GFE Text Formatter Infrastructure enhancement. When the text formatter that contains a Multiple Element Table, such as the FWS, is run during the day as an update, the product's Multiple Element Table data values are not updated since the sampling period covers the entire period and not just the period from the update time to the end of the period.

Problem. GFE: ScalarPhrases: Tom Springs fix for incorrect sky wording. (DR 17096)

This is an enhancement to the GFE Text Formatter Infrastructure. In some situations the Sky phrase wording was incorrect or not clear. Adding time descriptors to the sky phrase improves the readability.

Problem. GFE: Null swell does not work. (DR 17095)

This is a change to the GFE Text Formatter Infrastructure to ensure that the Null Swell phrase in marine products works properly in all situations. In previous versions it was possible to not get Null Swell phrases when they were desired.

Problem. GFE: VTEC: ETN Not resetting during year change (ETN did not reset to 0001 for RB.Y at PQR). (DR 17094)

This change is an improvement to the VTEC Active Table Sharing algorithm. This will help ensure that VTEC active sharing logic will not update records that are determined to contain events that were initially issued from last year even if the sharing record indicates this year's issuance. This will help prevent the VTEC active table sharing logic to override a local record that indicates an event initially issued from last year which can prevent the ETN being reset to 0001 for the new year.

Problem. RF OB5 Incorrect processing of non-zero value of @R. (DR 17070)

When the @R card is sset to something other than 0 (therefore grouping stations for analysis) the problems were noted within IDMA and the MAP preprocessor. See /fs/hseb/bugs/r27-12/readme.txt for more information.

Problem. RF OB5 SHEFPOST time series limits are too small. (DR 17042)

The work buffer in SHEFPOST is currently limited to a maximum of 200 time series values. The buffer needs to be increased to hold approximately 1000 values.

Problem. RF OB5 Incorrect processing associated with leap year in ETSGEN. (DR 17041)

When running with a SaveCODate of 03-01 an error will show up every 4 years.

n running with a SaveCODate of 03-01 an error will show up every 4 years.

Problem. RF OB5 FFGUID produces unrealistic headwater guidance. (DR 17040)

The headwater guidance produced by ffguid is not realistic. The 6 hour HFFG values are extremely large with the 12 and 24 hour values much lower than the 6 hour. See /fs/hseb/bugs/r26-23 readme.

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Problem. F6 Product missing dates. (DR 17021)

Missing dates from F6 product

> 24h greatest rainfall doesn't have the date, but has amount

> 24h greastest snow/hail doesn't have date, but has an amount.

Problem. Record Snowfall amounts are missing in climate daily report. (DR 17020)

Site LOT said that the problem is with both ORF and RFD.

Problem. RF OB5 IFP FGIX display issues. (DR 17011)

The frozen ground index (FGIX) needs to be added to the IFP SAC display and an FGIX column needs to be added to the detailed soil-moisture accounting listing.

Problem. RF OB5 XNAV missing value problem. (DR 17009)

When a forecast has missing (-999) values, the program interprets them literally.

Problem. RF OB5 FCST UHGCDATE mod problems. (DR 17008)

In some circumstances rises have occurred in the QINE 15 days after the mod has ended and the observed timeseries has been altered.

Problem. RF OB5 IFP Mods not being processed correctly. (DR 17007)

The WEADD mod is processed incorrectly if carryover is saved after applying the mod and then the carryover date is used at another time. The WEADD mod is applied on top of the previous adjustment. Rating shift mods for negative stages which are saved to OFS are not being applied when the fgroup which contains the mod is re-loaded.

Problem. Monthly Climate does not calculate precipitation correctly. (DR 16973)

This is happening for days where there is 0.01 inches of rain or less. Climate is not including precipitation days of .01 in it's calculations.

Problem. Unable to produce Climate products when records have been set. (DR 16969)

The site was unable to produce climate products when weather records have been set(highs, low, snowfalls) The program will not run the morning after the records have been set. Problem has been ongoing for years.

Problem. SCAN model data acquisition: bad error handling. (DR 16940)

When SCAN does not find its model.dat file, it is incorrectly flagging an error. The result is 100% probability of severe weather presented in the Storm Cell Table. This fix is known and is a one-liner.

Problem. FFMP Localization: Force clean localilzation. (DR 16935)

There are times when an FFMP localization produces changes which need to be reflected downstream - in the FFMPprocessor and display (via data, etc). If these changes are not reflected downstream, then FFMP will be broken. The known solution for this is to do a clean relocalization, which includes removing old data and re-starting the processor. We knew this

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early on, but expected clean relocalizations to be rare, thus we did not provide a script nor include such procedures in the localization itself. As it turns out, they are not as rare as we thought, thus thus DR is intended to address the need to make FFMP standard localization include the cleaning of data and re-starting of the processor. We will likely implement this with some sort of env var or switch, but, by default, it should be 'on'.

Problem. FFMP Basin Table update screen. (DR 16933)

According to a field site, when the FFMP Basin Table updates, it will reappear on whatever screen that has focus. This DR has not been verified, but wanted to create it so this issue does not get forgotten (again).

Problem. FFMP and HRAP bounds. (DR 16783)

FFMP uses an AWIPS utility for converting lat/lons to/from HRAP grid coordinates. This converter has arbitrary limits imposed, which exclude HFO's radars and kbro. This means FFMP will not be operable for those radars. After some iextensive nvestigation of the symptoms, the fix is known and easy (2-liner, compiled code). However, because this only affects HFO and BRO, and both sites have alreday tested the fix (and currently still have it, i think), this DR is targeted for OB7. If it needs to be handled again in OB6,an ATAN will be used to handle this (until something better than an ATAN comes along).

Problem. AF OB6-NCF: Central NWWS dissemination product format. (DR 16767)

The central NWWS interface at the NCF builds NWWS headings from the WMO heading based on CCCC and NNNXXX. Apparently this algorithm is not correct and may have never been correct. NCF should create NWWS headings exactly as the sites do.

Problem. LSRuse of std::vector.resize(). (DR 16721)

When std::vector.resize() is used, it does not overwrite exisitng elements. It will only create new memory or delete unneeded memory, not clear out existing elements. This behavior was unexpected. Most uses of it are fine in the LSR GUI, but there are a few that need to be changed. Most instances of this yield no problems, but the potential is there for significant problems, so each use needs to be evaluated. This DR is intended for OB6.x, thus an OB7 duplicate is needed.

Problem. FFMP: Duration change at Basin Zoom causes layer change. (DR 16677)

1) If the user zooms in on a particular basin, then changes the duration, the Table goes back to the grouped layer, and it should not. This deos not happen when you zoom in on a given group - only when you zoom in on a particular basin.

2) The same problem occurred when user re-ranks the Table after user zooms in on one particular basin.

3) The Table behaviour for the aggregation layers should be same as the County -> Basin way when user choose "HUC_1(2,3,4,5)" from Aggregation Menu. But sometimes clicking on one particular entity after the switch from one HUC layer to the other caused Seg Fault.

4) Incorrect data display when data source was changed from "DHR" to "SCAN QPF" and the "SCAN QPF" data were not available.

Problem. AWIPS does not handle DMD from Non-Associated Radars. (DR 16666)

The DMD product is on the OTR gui but AWIPS cannot display the product. Added to OB7.2 per RA-054.

Problem. ROC AWIPS cannot OTR to TDWR SPGs. (DR 16664)

The AWIPS OTR gui panes display radars alphabetically by 4-letter mnemonic and has a limit of using only 2 side panes which equates to about 87 radars). Since TDWR SPG systems all start with ~ST, all TDWR SPG radars would therefore come near the end of the 88D radar listings along with TJUA. Therefore, ROC and other centers that have a lot of radars configured for OTR access, will not be able to request products from TDWR SPG using the OTR gui.

Problem. New Prod Status and Red Banner Wrong with ORDA Remote Dial-in. (DR 16661)

The Radar Operations Center (ROC) identified an AWIPS problem during WSR-88D ORDA testing and is documented as ROC Issue "R..1-025", titled "ORDA B7-AWIPS New Prod Status Wrong with ORDA Remote Dial-in". When a technician dials into an Open RDA system, false Red Banner alarms (indicating a communications failure between the RDA and RPG) will be triggered and the NEXRAD Unit Status Display will flag New Product Status as Unavailable. | This is caused by a change to the RDA/RPG interface. New guidance from the ROC on how AWIPS should use the General Status Message(GSM) requires the following changes on AWIPS: Remove triggers based on the ~SRDA Alarms~T field in the GSM. For example, when a ~SWideband (RDA/RPG) Alarm~T is reported, do not generate a red banner alarm, and do not ~SNew Prod Status~T to ~SUnavailable~T on the ~SNEXRAD Unit Status~T display.| With Open RDA, this alarm category has a new meaning and consequently there is no reason for AWIPS to perform these actions. Added to OB7.2 per RA-050

Problem. SAFESEAS : Reverse Swell Period Rankings. (DR 16653)

Currently, SAFESEAS gives higher billing to smaller swell periods (they get colored red, and get sorted higher in the table than larger swell periods). KBOX and other WFOs would rather have the longer swell periods ranked higher. This is an OB7 DR.

Problem. The time zone given in the third bullet is wrong when a storm is crossing from one timezone to another. (DR 16515)

The time zone given in the third bullet is wrong when a storm is crossing from one time zone to another. The problem occurs either when issuing a multi-county warning that crosses the time zone border or when a storm is referenced in one time zone enters into a second time zone. The problem is the difference in time zone references. The MND has a reference to EDT and the pathcast will have EDT, but the third bullet (i.e. the AT 1133 PM CDT). Also for multi-county warnings the cross a time zone, there is no dual referencing in the third bullet.

Problem. MPC redbook graphics are displayed incorrectly. (DR 16379)

Many of the MPC redbook graphics are being displayed incorrectly. They are not being geo registered correctly (this is not a build specific problem).

From Joe Wakefield: "This seems to be the case. Compare, for example, MPC Marine Guidance >Tropical Surface Analysis to HPC Temps & Weather > MSL Pressure Analysis and ...Surface Fronts Analysis. Mapping doesn't look quite right." (This would not be an FSL issue.)

Problem. The Last Obs Ceiling and Visibility values are editable for Snow Only and Public Stations. (DR 5203)

Stations set up in the AVP as Public and Snow Only have "NA" in the rows for Ceiling and Visibility except the first field, Last Obs. The Last Obs field is editable, but the others in the row are not. For Snow Only stations, these fields are "MSNG". When trying to edit and save these values for Snow Only stations, an error message pops up: "VerScreen::write(): saved failed, status = 2011". Clicking OK and changing the values back to "MSNG" allows the user to continue. For Public stations, the application ingests values for the Last Obs fields. They can be edited as desired. The values are formatted into the cccVERxxx messages sent to NCEP.

Workaround. Edit both the Last Obs fields to "MSNG", and no extra data will appear in the formatted messages.

Problem. Resultant wind is not output in the NWWS product when selected. (DR 7007)

When all wind elements for the NWR monthly report are selected, the resultant wind is not output in the NWWS product, although it is output to the NWR product.

Workaround. Take the resultant wind value from the NWR product and edit it into the NWWS product if desired.

Problem. The NWWS version of Climate attempts to transmit deleted products. (DR 7011)

If the user creates an NWWS product, but then decides to delete the product using the Climate editor, the product is deleted as expected. However, the program continues to request transferNWWS.pl transmit the product out over the NWWS. Since the product no longer exists, the transferNWWS.pl script generates an error message.

Workaround. None. However, since the product no longer exists, no product is transmitted and the transferNWWS.pl script just generates an error message. This error occurs only once per deleted product.

Problem. Sky cover is not enhanced with SCP observations. (DR 7442)

The sky cover value in the climate products is not enhanced with satellite information. Therefore, for most ASOS stations, this value represents only the lowest 12,000 feet.

Workaround. Edit the product manually as necessary before transmission.

Problem. The crons that determine when and how the Climate program runs should be separate from ingest.crontab.ds1. (DR 7756)

Most sites need to change the times of execution of their climate programs from the baseline ingest.crontab.ds1. The baseline ingest.crontab.ds1 is used for standard execution times of programs, but the Climate program is user-configurable.

Workaround. Edit the Climate entries directly in ingest.crontab.ds1 as necessary.

Problem. Missing data in GUIs should be displayed as M. (DR 7923)

Missing data are stored in the database under various values, such as 9999, 9999.0, -9999, and 99. The stored data should not be changed, but the display of these data in the GUI should be M.

Problem. Warning messages from database changes should be improved. (DR 7925)

The Quality Control Climate Database warning messages need to be improved to provide the users with more informative and useful messages.

Problem. Snowfall estimate is output as 0 instead of missing. (DR 8195)

The snowfall estimate may appear as 0 despite the fact that precip is reported and the maximum temperature is less than 32 F.

Workaround. Edit the product manually as necessary before transmission.

Problem. Eliminate extra record for annual normals. (DR 8815)

When the Initialize Climate Database GUI is launched with the "Annual" option, the GUI contains "First" and "Last" buttons. These buttons are useful for "Daily", "Monthly", and "Seasonal" records. However, for "Annual", since there is only one annual record per station, both buttons need not be active.

Problem. Some monthly average sunshine data is missing from the F6 product. (DR 10682)

The F6 product summarizes the total number of minutes of sunshine, and should give the average number of minutes of sunshine and the average percentage of possible sunshine, but the last two fields are missing from the final product.

Workaround. Edit the final product manually as necessary.

Problem. Selecting Edit Climate Product on the Linux text workstation causes the NWR Browser and NWWS Review windows to appear on the Linux graphics monitor. (DR 12279)

When Climate is run manually from a Linux graphics monitor, selecting Edit Climate Product (when new appears) on the text workstation causes the NWR Browser and NWWS Review windows to appear on the graphics monitor where the climate program was originally executed. These windows should appear on the text workstation as they did in previous releases.

Workaround. Simply use the NWR Browser and NWWS Review windows on the graphics monitor when they appear there.

Problem. The Initialize Climate GUI does not accept a monthly record snow depth of T. (DR 12429)

Workaround. Edit the product manually as necessary before transmission.

Problem. Climate should not allow the rerun of the monthly climate product if new records have been set. (DR 12551)

The monthly climate should follow the same paradigm as the daily climate by not allowing the report to be rerun if a new record has been set.

Workaround. Use caution when rerunning the monthly climate product for a month in which a record was set.

Problem. Missing Sea-Level Pressure causes failure of the DSM decoding. (DR 15977)

If there is a missing sea level pressure value in the ASOS DSM , the climate application does not decode the DSM.

Problem. The Graphic Color Chooser/Centroid does not work correctly after the color bars are moved in HSB mode. (DR 10894)

On the Linux workstation, load a graphic into the large pane and bring up the Color Chooser tool. Select HSB, move any of the Color Bars (Hue, Saturation, or Brightness), and then move the Centroid around. At this point, the user cannot manually move the Centroid into the green area. If the user switches back to RGB mode, the Centroid still cannot be used correctly.

Workaround. The user can still select any color using the Color Bars.

Problem. Data Scale does not work for combined or multiload products. (DR 11438)

When using Data Scale from the D2D Options menu, the product selected is displayed on its native scale. For example, data from a non-local radar will display on a map encompassing its range. However, when using Data Scale, if the user selects a combined or multiload product, such as Z/V, 4-panel satellite or radar, or a model family, the scale adaptation does not work.

Problem. Display QuikScat winds in colors for each wind speed category. (DR 15069)

The current QuikScat display is all one color. The files actually contain information related to the different wind speeds in categories and an additional flag indicating whether there is rain contamination. This type of display can be achieved by using the multi-load code that is used for the lightning observations at close time ranges. A similar load scheme could be used to load the wind speeds at 5kt intervals (as well as the rain flag).

Problem. Set Background Color Cancel button behavior is inconsistent. (DR 15565)

If one selects Set Background Color... from the button 3 popup, the change applies only to the window in which the selection was made. In this case, if one applies a color, then Clicks Cancel, the display reverts to the previous setting. On the other hand, if Set Background Color... is selected from the options menu, then changes apply to all panes. In this case, a color application followed by cancel leaves the color that was applied.

Problem. Time match problem using Time Options with families. (DR 15868)

If you select Time Options and load a model family, such as GFS, the first overlay is not time matched with the rest of the overlays.

Problem. GFE allows ifps user to scp tp LS from the DX which is not currently supported. **(DR 15603)**

GFE provides a means to access site scripts. When scripts are run from the IFP server on the DX user ifps is used who can not scp from the DX to the LS. The script will work if run on any other host as any of the site's individual users.

Workaround. Open a route for ifps from DX1/2 to the LS or run local scripts on PX2.

Problem. D2D hangs for several minutes when run with GFE on the same monitor. (DR 15881)

If you lunch D2D and GFE on the same monitor, the D2D will hang for several minutes. If you do a top command on the workstation, the CPU usage for the fxaWish process goes to near 100% for several minutes.

Workaround. None, but after several minutes both the D2D and the GFE are usable again.

Problem. LAPS infrequently does not run for an hour due to an lga crash. (DR 6385)

The LAPS lga executable may crash when it cannot access RUC data. However, most of the time when lga cannot use RUC data, there is no crash and lga just tries to use Eta data.

Workaround. None. This problem occurs rarely and LAPS works the next hour.

Problem. LAPS relocalization does not indicate if it succeeded or failed. (DR 6407)

There is no indication when the LAPS relocalization is done. The user receives no notification if it has succeeded or failed.

Workaround. Look at the logs in /data/fxa_local/laps/log to see if it was successful.

Problem. The confirmation message when relocalizing using the LAPS Tool GUI is not clear. (DR 6524)

The LAPS Tool GUI has a Confirmation window that appears when the user selects Localize LAPS. The window looks like it is intended to tell the user not to run the localization when the LAPS cron is running. The window says: "Procedure takes ten minutes. Consider that it is hh:mm and LAPS usually runs at :20 after the hour." The box does not indicate when LAPS ends or tell the user to check on AS2 to see if it is done. It could show specific times that the localization should not be run.

Workaround. LAPS localization should not be run during the LAPS cron run, which is usually between 20 and 30 minutes after the hour.

Problem. The LAPS tool for displaying data used for current analysis does not work for a short time after 00Z. (DR 7774)

The LAPS tool for displaying data used for current analysis indicates that the files that it needs to view are not found for a short period of time after 00Z. If the tool GUI is opened shortly after 00Z, the data that were used in the previous run cannot be viewed until LAPS runs again around 0020Z.

Workaround. View the logs manually through a Telnet window, or wait until LAPS is finished to view the 0020Z LAPS run logs.

Problem. Some LAPS logs are written to the wrong directory. (DR 12965)

The laps_sfc.ver.<hhmm> and sfcqc.log.<hhmm> logs are written to the wrong directory. They are written to /data/fxa/laps/log/qc and /data/fxa/laps/log, respectively, but should be written to /data/logs/fxa/display/<date>/laps.

Workaround. View the logs in their current locations as indicated above.

Problem. LAPS localization does not start if different users execute it. (DR 15003)

When a user different from the one that previously run the LAPS Tool domain relocalization clicks the "Localize Laps" button, a tcl error appears. It indicates that touch can not create a lock file under /data/fxa_local/laps_domain directory. The directory is owned by the user who previously run localization and has 755 permissions. Therefore, no other user can change items under this directory. The directory does not appear to go away after localization completes.

Workaround. Remove the directory and try again.

Problem. LAPS Tool GUI cannot locate log files. (DR 15435)

When attempting to view log data for Surface, Wind, Humidity, Clouds, or temperature using the LAPS Tool GUI, the GUI will report that "NO log files were found".

Problem. LAPS Tool GUI does not work in failover mode. (DR 15436)

This is a remnant from running on the ASs where LAPS would not run on AS2 when the as2swap package was failed over to AS1. Now that it has moved to PX1, the GUI should run when px1apps is failed to px2 but it does not.

Problem. LAPS: Error message displayed when LAPS Tool GUI started. **(DR 15439)**

An error message is displayed to the user when the LAPS Tool GUI is started that states: "Sorry, error getting to px1f system. The Laps Tool GUI is not available." After acknowledging the error window , the GUI will display regardless of the error message.

Problem. Straight map lines sometimes disappear when zoomed. **(DR 4415)**

If the user zooms in sufficiently (usually max on WFO scale), map lines may disappear. This seems to happen when neither end of a line segment is on the display.

Workaround. The map line can be made to reappear by roaming the display or zooming back out.

Problem. Two Skew-T sampling problems. (DR 8196)

1) If a user has lat/lon sampling on, then displays a Skew-T chart, the sample includes lat/lon information appropriate for the scale that was previously displayed. It cannot be turned off, since there is no lat/lon sampling button in the pop-up (appropriately).

2) The Theta/Theta-e readout in Skew-T samples includes a degree sign in front of the K. There should not be a degree sign there.

Workaround. Turn lat/lon sampling off before displaying a Skew-T.

Problem. Swapping panes eliminates overlays more than 7 frames from the end of the loop. (DR 12761)

The following is an example of this   Load multiple (>7) frames of satellite data into the main pane. Step back greater than 7 frames, choose Inventory load mode, and load METAR observations to create an overlay. Swap into small pane (if looping is on, notice that the default loop is the most recent 7 frames no matter how many were originally loaded). Swap the data back into main pane to restore the original conditions. Then, step back to the frame where the METAR observations were overlaid on the satellite and the overlay is no longer present. This

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does not happen when the overlay is less than 7 frames back, possibly because that information is still stored by the loop in the small pane. This can happen when other data types are overlaid as well.

Workaround. Avoid swapping overlays such as this into the small pane if possible. This problem does not occur when overlaying products over the entire loop.

Problem. Button 2 click in loop dialog yields a script error. (DR 15455)

If one is using the Loop parameters dialog and clicks with button 2 in one of the slider boxes, a script error pops up on the screen: Can't read "Priv (.loopPref.firstScale.relief)":no such element in display. ('first' is replaced by 'last', 'back', or 'fwd', depending on the slider.) Further, dragging or clicking with button 1 works fine, and that's the way most users probably interact with this dialog.

Workaround. The requested action takes affect, so this is just an annoyance.

Problem. Open saved skew-T does not work in Interactive Skew-T application. (DR 15618)

In the interactive Skew-T application, one can save and re-open a file containing the sounding points. While Save/Save as ... woks, Open ... does not display the contents of the file. This feature worked on Hp but apparently does not on Linux.

Problem. Large panes do not load correctly the first time D2D is launched after login. (DR 7409)

When logging into a workstation and then launching D2D, the map background in the large pane does not load correctly. The large pane loads with a little 2- x 3-inch CONUS map background in the top left corner, and the rest of the pane is black. The large pane stays this way until the mouse is run over the miniature map background or the menu bar. At that point, the large pane fills up with several of these miniature map backgrounds, then quickly switches to the correct map configuration.

Workaround. None, but no operational impact. The problem disappears as soon as the mouse is run over the pane. In addition, the problem only happens when D2D is launched the first time after logging into a workstation.

Problem. Some NCEP Model Graphics products have errors. (DR 707)

Bad MRF MeanRH and AVN 850-500 Thickness data cause the UKMO, ECMWF, and S-blend 6-10 500 height products to be centered over Africa when they should appear over the pole.

Problem. Some NCEP model products have different times on product dates, product legends, and green times. (DR 2479)

Some NCEP model products have product times (in the upper left corner), product legends, and green times that all differ from one another. The products are: From the Model Graphics cascading menu in the Upper Air menu, MRF 0-5 Wave 500 hgt, 120h UKMO 500 hgt, 120h ECMWF 500 hgt, and 6-10 day 500mb Height. From the National Centers models cascading menu in the NCEP/Hydro menu, NGM Moist Conv.

Problem. Several Redbook graphics products have incorrect date-time groups on the WMO headers. (DR 4142)

Several Redbook graphics (RBGs) date-time groups (DTGs) on their product's WMO Header are not correct. The DTG time should be the cycle time (also called basis time) for the forecast or analysis. For example, a 12-hr forecast of a product with a valid time of 09/00Z will have a cycle of 081200 (08/12Z). The AWIPS CP assumes the product WMO header date time group (TTAAii CCCC DDHHMM) will always be the cycle time and uses this information to timestamp the product, which is key to time matching the product with other data types. The WMO DTG is created at the product generation source point, which is typically at NCEP/NCO. An inventory of RBGs with the DTG problem has been accomplished and forwarded to NCEP. The methodology for checking to see if the WMO header of the RBG is the cycle time is to compare the AFOS label valid time with the AWIPS valid time label. Another way is to cat the file and compare the AWIPS DTG on the RBG file name with what appears in the file dump from the cat.

Problem. Text is curved on some Redbook graphics products. (DR 9614)

On some Redbook graphics products, some of the text displayed for the products is curved on the D2D display. This makes the text more difficult to read. Some products that have this problem include the 3-7, 6-10, and 8-14 Day Heat Index Fcst, West Atlantic Fronts/Press Fcst, and North Atlantic Surface Analysis.

Problem. The probabilistic heat index forecast products are purged too quickly. (DR 12978)

These products (WMO ID: PTNK98KWNC) total nine charts, which are saved with time stamps of one minute after the other for each chart. However, purge is set to keep only two versions of these products, and thus the other seven are purged soon after being stored.

Workaround. Manually modify the purge parameters to retain more versions of this product than two.

Problem. MPC redbook graphics are displayed incorrectly. (DR 16379)

Many of the MPC redbook graphics are being displayed incorrectly. There are not being geo registered correctly.

The top bundle in the history list cannot be altered. **(DR 6916)**

Workaround. Clear the screen and the top bundle becomes the second bundle, and it can then be altered.

Problem. The "*mb" option in Product Maker does not work properly. (DR 2436)

When loading a product in the Product Maker using "*mb", only two frames display. Neither frame has a pressure label. The second has a time stamp of -251868HR Thu 00Z 01-Jan-70.

Problem. The "<" and ">" operators have problems with contoured fields. (DR 3453)

The Product Maker has a problem displaying the following field, and other fields with the < operator: (Height[ETA,,,500mb,*]) < (5460). The field is displayed such that the contours closest

to 5460 are broken up. An image displayed for this field appears blocky and discontinuous around 5460.

Problem. Product Maker is not able to calculate values of parameters at specific latitudes and longitudes. (DR 4669)

For example, a user could enter an equation of "Temp,Eta, 90,40,500,12" to calculate the temperature at 500mb at 90W, 40N for the 12hr Eta forecast. When loaded, the word "Loaded" appears in the Status/Value line, but no value is returned and nothing appears on the D2D.

Workaround. Some of these values may be obtained by loading the product as an image in the Volume Browser and sampling. Then the value sampled may be manually put into the Product Maker for additional calculations.

Problem. Product Maker has problems with satellite imagery. (DR 8162)

The Product Maker displays satellite information (not the actual image) incorrectly. For example, the IR_window image is displayed with its correct color curve, but the color curve legend is in counts from 0-255 instead of in degrees C. When the image is sampled, those same "counts" are returned, as if it were a visible image. Also, the visible imagery legend (and sample) goes from -50 to +300, instead of 0-255.

Problem. AVN and MRF still appear as sources in the Product Maker. (DR 13530)

The AVN and MRF still appear as sources in the Product Maker. These products have been renamed to GFS. However, this does not prevent the loading of the products via the Product Maker.

Problem. Some D2D radar windows report abnormal exit when closed. (DR 5972)

When some D2D radar windows, such as RMR, the OTR, Alert Request, or RPS windows, are opened, worked with, and then closed, sometimes a message appears in the D2D status bar or as a Red Banner Message stating that the window exited abnormally. There appear to be no adverse affects from this message though.

Problem. The All Tilts product sometimes does not update properly. (DR 8287)

The All Tilts radar product sometimes updates with the wrong data. For example, if the 1.5 SRM is displayed, sometimes the .5 SRM comes in as an update.

Workaround. Reload the product to display the current version. The product also will auto-update with the correct version with the next volume scan.

Problem. RCS and VCS products update all panes when loaded. (DR 10595)

Both products are only available via OTR. When they are loaded, all RCS or VCS panes are updated with the latest product. So, for example, if three windows are loaded with an RCS product all at different times, and the user does a OTR and gets the latest RCS, when it is available all three panes are updated.

Problem. Radar menus update inconsistently when products are not available. (DR 11014)

If an elevation is requested and is not available, the next lowest elevation is provided, which is by design. However, sometimes both the requested elevation and the elevation provided are

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updated with a current time on the menu. The product is stored twice under both elevations, but is the same product. This happens most consistently with the DZ product (8-bit Reflectivity).

Workaround. None. Be aware that the radar menus may sometimes be inconsistent in cases such as these.

Problem. The Radar Mosaic product does not display properly. (DR 11494)

When the .5 refl radar mosaic product is zoomed, the display around the site's dedicated radar shows a 'doughnut' of missing data in the 1-2 nm range and data in the 0-1 nm range.

Workaround. Use the non-mosaic version of this product from the site's dedicated radar. The 'doughnut' problem does not occur on this product.

Problem. Range rings sometimes display incorrect values. (DR 12261)

Sometimes radar range rings display incorrect values. This has been observed most often when range rings are displayed over a radar product for the first time in a D2D session. The range rings display a large magnitude negative number for km above ground level.

Workaround. Clear the display pane and reload the radar product and range rings. This time the range rings will display correctly.

Problem. The All Tilts product legend is too long. (DR 13381)

When the user loads several of the All Tilts products on D2D for any radar, the product legend in the lower left of the screen becomes too long and the beginning of the product legend name is cut off.

Workaround. Resize the current window to see the full product name.

Problem. MRU cell ID D0 appears as d0in cell table. (DR 14577)

This occurs constantly for D and may for other letters of the alphabet, and is confusing to the user.

Problem. The DMD product uses both 000 and 360 degrees as valid direction. (DR 14578)

Two different cells moving in the same direction used this.

Problem. FFMP complaint of not finding ref_sl file (DR 16750)

With OB6, if the FFMP display cannot find the ref_sl file, it will tell the user. But it does not tell the user that FFMP can still be used, minus the new Basin Trace functionality. The user should be informed in the text message pop-up.

Problem. New Prod Status and red Banner Wrong with ORDA Remote Dial-in. (DR 16661)

When a technician dials into an Open RDA system, false Red Banner alarms (indicating a communications failure between the RDA and RPG) will be triggered and the NEXRAD Unit Status Display will flag New Product Status as Unavailable. This is caused by a change to the RDA/RPG interface.

Workaround. Remove triggers based on the ~SRDA Alarms~T field in the GSM.

Problem. Wrong WMO Header for NEXRAD Archive Status Product will cause it to go on NOAAPORT. (DR 16662)

ROC submitted RC AC430 to implement the Archive Status Product (152) and the central collection and NCDC archive of it. The WMO header ID which was assigned last winter for this product will cause it to be broadcast on NOAAPORT. Since NOAAPORT is not required and since NCDC prefers to receive it via multicast, the WMO header ID must be changed.

Workaround. Change WMO header ID.

Problem. ROC AWIPS cannot OTR to TDWR SPGs. (DR 16664)

The AWIPS OTR GUI panes display radars alphabetically by 4-letter mnemonic and has a limit of using only 2 side panes which equates to about 87 radars. Since TDWR SPG systems all start with ~ST, all TDWR SPG radars would therefore come near the end of the 88D radar listings along with TJUA. Therefore, ROC and other centers that have a lot radars configured for OTR access, will not be able to request products from TDWR SPG using the OTR GUI.

Problem. Problem toggling back and forth when accessing View->current list for a tdwr radar. (DR 16711)

If you open up an RPS List Editor GUI and select View->Current list.... and select a wsr-88d radar, the current list for that radar will be displayed in the window. Again, select View->Current list... and select a wsr-88d radar, the current list for that radar will be displayed. With the same GUI still open, select View->Current list... and now select a tdwr radar - the current list for that radar will be displayed. At this point, you will not be able to access another radar's current list via the GUI. You have to exit and relaunch it. You can toggle back and forth with the wsr-88d current list displays, but once you access a tdwr, you will not be able to access any other radar.

Workaround. Exit and relaunch GUI.

Problem. Persistent unsynchronized GOES imagery in four-panel satellite view. (DR 13000)

The four-panel satellite images are typically synchronized in time. However, sometimes (often several times per week) it is not possible to produce a time-matched set due to the nightly suspension of visible data, eclipses, switches between routine mode and RSO and back, and sporadic missing imagery. These events cause the imagery from one or more channels to be missing, while imagery from other channels is available. In these cases, D2D often displays "Not available" for the missing sector, or sometimes picks another near-in-time (though not exactly time matched) image, with the result being one or two out-of-sync images. Temporary out-of-sync images in and of themselves are not a serious problem, but often even after such temporary periods of missing imagery are over (e.g., when complete data coverage has resumed), D2D often continues to display out-of-sync data products until some other event triggers a resynchronization. For example, some event might trigger an incomplete set of satellite imagery at 06Z. By 07Z, complete sets of imagery are restored, but, later in the day, as a user loops through the image sequence between, say, 06Z and 09Z, unsynchronized imagery displays for every loop sequence, even for periods when a complete set of imagery is available. The correct behavior should be that out-of-sync imagery is either not displayed at all, or only displayed for the time periods when an incomplete set is available. Once complete time-synchronized data are available, they should be displayed.

Problem. Green times are sometimes incorrect for WV and WV/IR 4-Sat composites. (DR 15570)

The green times for the WV and WV/IR 4-Sat composite products update intermittently. The other 4-Sat composite products (VIS, IR) update consistently. The WV and WV/IR products are available for display even though the green times do not always update.

Problem. There is a QPF scale display problem. (DR 6173)

Currently, the RFC QPF products are only available at the Regional Scale or below. The problem is that most of the sites in the list are outside that scale but are still selectable. As a result, the user may select a product and it will load, but the user will not be able to see the data. The menu should grey out stations not accessible at a particular scale. Also, the RFC QPF should be displayable at the CONUS scale or below.

Problem. The FFG Mosaic product produces errors in the IGC_Process log. (DR 9167)

When loading FFG Mosaics from the Hydro section of the NCEP/Hydro menu, the IGC_Process log reports errors. There is one RFC with old data, and there are errors reported for each RFC that does not have data as old as the old data. It does not appear that this prevents any valid data from loading. Here is a sample of the errors seen:

IGC_Process 9582 999808650.703837 20:37:30.703 BUG: Error opening file: /data/fxa/img/SBN/netCDF/HRAP/FFG/CBRFC/3hr/20010725_1200.multi

IGC_Process 9582 999808650.718507 20:37:30.718 BUG: Error opening file: /data/fxa/img/SBN/netCDF/HRAP/FFG/LMRFC/3hr/20010725_1200.multi

IGC_Process 9582 999808650.720652 20:37:30.720 BUG: Error opening file: /data/fxa/img/SBN/netCDF/HRAP/FFG/MARFC/3hr/20010725_1200.multi

IGC_Process 9582 999808650.723665 20:37:30.723 BUG: Error opening file: /data/fxa/img/SBN/netCDF/HRAP/FFG/MBRFC/3hr/20010725_1200.multi

Problem. The lightning plot sometimes displays incorrectly during periods of intermittent data. (DR 12063)

The following scenario describes the problem. Lightning data were received during the 1200 UTC time frame, but not during the 1100 UTC hour or the 1300 UTC hour. The current time is 1350 UTC. Requesting the one-hour lightning plot displays 1200 UTC lightning in the legend, but displays nothing in the main pane (the empty 1100 UTC time). Since there is no lightning so far for the 1300 UTC hour, there is no netCDF file for it. The display generation seems to interpret a one hour request as "display the hour previous to the most recent existing netCDF file", which is from 1200 UTC in this case. So it displays the empty 1100 UTC data file but places 1200 UTC in the legend, but not with the data that exists from the 1200 UTC hour.

Workaround. Load shorter time-projection plots, such as 15-minute lightning. However, be aware that the problem could exist for those plots as well if the data are sufficiently intermittent.

Problem. The heat indices displayed on the D2D product are sometimes off by a degree at some locations on the display. (DR 12260)

On any given display of the product, a few locations may show this error. The error is not specific to any particular location or region.

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Workaround. None, but the majority of locations on any display will not suffer from this problem. When in doubt, consult the Hourly Weather Round-up product for the correct value.

Problem. MOS sampled on D2D has extra characters. (DR 12818)

When a MOS plot is loaded on D2D from the Forecast data menu in the NCEP/Hydro menu, it can be sampled. The text of the MOS plot appears. At the end of the lines of the products, there are boxes. Most lines have two boxes. Some lines have one box.

Workaround. No data are lost, so there is minimal operational impact. Simply ignore the extra box characters.

Problem. PDC Stage Flow bug. (DR 15510)

In the PDC table, The Stage Flow column does not appear to have the correct data - as it has a different number of entries than the other columns, and thus may not scroll when the others scroll.

Problem. FFMP: FFFG permanent values not sticking. (DR 16528)

When FFG values are forced using the Forced FFG GUI, and a flag that is suppose to mean that the forced values have no expiration and are to be used indefinitely is provided, at some point, the values get lost and are not used.

Problem. Polar Precip rates showing the wrong hail cap. (DR 16642)

When the Polar Precip Rate display is loaded with ORPG Build 8 DHR, the Hail Cap listing is showing the wrong value. The depictable needs to adapt to the ORPG Build 8 format.

Problem. Duration change at Basin Zoom causes layer change. (DR 16677)

If the user zooms in on a particular basin, then changes the duration, the Table goes back to the grouped layer, and it should not. This does not occur when the user zooms in on a given group - only when the user zooms in on a particular basin.

Problem. SAFESEAS is a choice on ingest restart at non-safeseas sites. (DR 14390)

SAFESEAS can be chosen on Ingest Restart at non-SAFESEAS sites. If the user tries to start it, it times out after about ten minutes with the following message: "Timed out waiting status files from subprocesses. Process stops and restarts for the nodes and classes indicated by the following missing status files may not have been successful: /data/fxa/data/fxa_monitor/restartStatusPending_as2_SAFESEAS.txt .

Problem. Duplicate TAFs are being stored. (DR 7587)

Some TAF products are being stored in the database more than once because they have different headers. Some of these are individual TAFs that also appear in a collective. Some are contained in several collectives that have different WMO headers. The CollDBDecoder processes all of these, and because the headers are different, the decoder stores all of them. The duplicate filter does not work because the products are, in fact, different.

Problem. Multiple versions of a text product are stored if different products under the same WMO ID are repeated. (DR 10643)

At SEW, multiple versions of SEACGRNMW are being stored. There are about five different products that are coming in under the SXUS40 header. Sometimes the set of five distinct products repeats. To the site, this appears to be duplicate product storage, but the duplicate text filter is not catching it because it only looks at the most recent version stored under the AFOS PIL.

Problem. Help function is incorrect in Text Browser for international origin. (DR 3886)

There are a couple of discrepancies with International sites. In the node section, the help function gives Wisconsin Rapids, WI for ISW. This is correct for the US KISW, but incorrect for the International site. The other discrepancy is choosing ICO as the node and CO1 under MTR. Using the help function on this, the user gets Rivers in Colorado. However, ICO is the International site Columbia.

Workaround. None. The data can be retrieved by typing in the AFOS PILs in the AFOS Cmd command line for these products.

Problem. The Change All button on the text workstation spell checker does not work if there are numbers. **(DR 6388)**

The Change All function on the text workstation spell checker does not work if there are numbers attached to (no white-space between) the word that is being corrected.

Workaround. Use the Change button instead.

Problem. Request/Reply returns the same product more than once. (DR 6408)

If a site requests and receives a product from another site and then requests the same product again from the same site, the product is sent to the requesting site again and is stored in the text database. The result is duplicate products in the text database.

Problem. D2D-launched text window spell checker does not work. (DR 9793)

The spell check feature in a text window launched from the D2D does not work. When the spell checker is accessed, a error message appears saying, "Error: error writing "file43":broken pipe."

Problem. The Text Workstation is slower on Linux than on HP. (DR 13589)

The X-Terms are slower now that they are connected to Linux versus when they were connected to HP. This is probably due to the fact that with the use of KDE, the X-Terms are using more memory than they used to.

Workaround. None. This will probably be resolved with the X-Term replacement.

Problem. "Forecast Time" vs. "Inventory Time". (DR 1611)

When using Inventory load mode, in the Select Forecast and Inventory dialog box, the forecast times and inventory times match only for the first inventory time listed.

Workaround. The forecast time the user loads can be determined manually from the Inventory time and the hour forecast (HR) section of the Forecast time section.

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Problem. The Units Conversion Calculator returns invalid results when using large values. **(DR 13532)**

Inputting large values into the Units Conversion Calculator often produces invalid results. For example, 12345678 km converts to -53922388m, 1234567 days converts to -707593600 seconds, and 1234567 Nmi converts to -2008549212 m.
Workaround. Use caution when inputting large values into the Units Conversion Calculator.

Problem. Distance speed tool direction off by 180 degrees. (DR 14575)

The distance speed tool shows were objects are going to vs. where they are coming from. A number of cells moving from the west to the east should appear as direction 270 degrees, distance speed tool shows heading toward 90 degrees.

Problem. Profiler horizontal and vertical variance data are missing. (DR 3513)

Profiler horizontal and vertical variance fields are not included as part of the normal data stream that AWIPS receives. These data will have to be included in the normal AWIPS data stream before they can be viewable on AWIPS.

Problem. Label magnification problem with hodograph. (DR 5170)

When working with the Interactive Skew-T and Hodograph, if the user zooms in over the hodograph and toggles Helicity/Storm Inflow on from the Skew-T controls window, the values/labels do not reduce when the user zooms back out.

Workaround. Once zoomed back out, toggle on and off the Helicity/Storm Inflow to force it to reduce magnification.

Problem. The MRF Mean RH product in the Upper Air menu has spurious lines displayed and the model times in the legend are incorrect. **(DR 7143)**

Problem. Cannot add a new vertex to the Hodograph. (DR 8324)

A new vertex cannot be added to the Hodograph in Interactive Skew-T mode. When mouse button three is clicked over the hodograph line, a menu pops up with "Add Vertex". If Add Vertex is selected, a new vertex appears, but as soon as the mouse button is released, it disappears.

Workaround. Add the vertex by using the entry boxes in the Skew-T window.

Problem. The profiler perspective product displays slightly differently in the small pane. (DR 10329)

The profiler perspective product plots winds on a staff with 10 height ticks (including the surface) in the large pane. When swapped into a small pane, the staff has 11 ticks, until the height of the pane is changed, at which point it then returns to 10.

Workaround. Ensure that the display shows 10 height ticks by viewing this product only in the large pane, or in a small pane that has been resized.

Problem. Significant Level Winds are occasionally missing on AWIPS RAOB Plots (SkewT). (DR 15073)

RAOB plots retrieved via the D2D sequence "Upper Air"—>(RAOB) e. g. "US Eastern" —> then pick a site, are occasionally missing the significant level winds. The PPBB portions of the RAOB significant level products sent on the AWIPS WAN to the NWSTG. are okay. It seems the issue is with the BUFR encoding of these products that are sent back to AWIPS in the IUST*KWBC collectives. These BUFR products are used for the AWIPS D2D display.

Problem. Problem with Manual edit of Eta40 1000mb Temperature on Interactive SkewT (DR 15101)

The problem with interactive SkewT occurs when editing the Eta40 , interpolative, sounding 1000mb temperature by manually moving the point. the display goes haywire with the temperature essentially going off scale. This happens because there is no dewpoint temperature at 1000mb (Td is "virtual", computed using RH, temperature and pressure – there is no RH for mesoEta212 [eta40] model). The missing 1000mb Td represents a missing SkewT limit.

Workaround. Things work ok if we manually place a dewpoint temperature on the sounding at 1000mb.

Problem. Differences noted between N-AWIPS and AWIPS QPF fields. (DR 658)

A difference was noted in the AVN model QPF fields when comparing WFO-A displays with the N-AWIPS display. The discrepancy involved the 60- to 72-hour projections. Essentially, when displaying the 12Z run of the AVN model, the WFO-A system indicated that close to 2 inches of rain would be received in the DCA area while N-AWIPS indicated all of the rain would pass to the south.

Workaround. None. COMET is performing an analysis of AWIPS vs. N-AWIPS displays. This is a long-term effort.

Problem. Eta Model Precipitation error. (DR 1092)

The Eta Precipitation field differs from the current PCGRIDDS product in that AWIPS shows a .01 contour where PCGRIDDS shows 0.

Workaround. None. COMET is performing an analysis of AWIPS versus other system displays. This is a long-term effort.

Problem. The small map in the Volume Browser Time Series products does not change to accommodate new point locations. (DR 2398)

If a product is loaded, for example, for the west area of the CONUS, and then a second product is loaded for the east area of CONUS, the small reference map does not change to include the location of the second product.

Problem. Some NHEM scale AVN data are missing past 48 hours. (DR 7118)

The logs show data that come in at the 6-hour increments (including 54, 66, 80, 92, etc), but on D2D they are only viewable every 12 hours after 54 hours.

Workaround. None. At CONUS sites, the CONUS AVN data are available. However, the OCONUS sites do not get that CONUS data.

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Problem. GWW color editor changes get overwritten by auto-update. (DR 10032)

Display wave height fields as an image for the GWW model. Using the color editor, block fill a portion of the data (e.g., make 4-6 meters black). After the display auto-updates to the next model run, either the color fill values change, or the color fill changes are reset to default.

Workaround. Perform the color fill again on the new model image.

Problem. Two units problems with the Diff function in the Volume Browser. (DR 10785)

1) The result of the Diff function on surface temperature and dewpoint (either Plan View or Time Series) should be the same as the dewpoint depression. However, the units do not come out right.

2) If the user does a Diff of variable vs. height of vorticity and divergence, the scale is not labeled in a useful way. If the user overlays this Diff on those "undiffed" fields, the result is just a straight line.

Workaround. None; be wary of the results of the Diff function in these situations.

Problem. A Tcl error is displayed when selecting Show Detailed Inventory. (DR 11436)

When using time series in the Volume Browser, when the user right clicks to "Show Detailed Inventory", a Tcl error occurs. The following error is displayed:

Error: called :show_inventory" with too many arguments.

Problem. The AVN boundary layer and surface winds are the same on CONUS and lower scales. (DR 12371)

When selecting the AVN surface wind fields, only the boundary layer winds display on the CONUS scale and below.

Workaround. Use a different model to view these wind fields.

Problem. A Time Series with different scales displays incorrectly. (DR 13696)

When a Time Series with different scales (such as temperature and height) is first loaded, the top Time Series uses the top of half of the screen, and the bottom Time Series uses all of the screen. The top Time Series should be in the top half of the screen, and the bottom Time Series should be in the bottom half of the screen.

Workaround. Zoom in and then back out over one of the Time Series, and they will correct themselves. The top Time Series will then be in the top half of the screen, and the bottom Time Series will be in the bottom half of the screen.

Problem. Procedure values on Baseline Cross Section IMAGE not constant. (DR 14957)

When loading cross sections as a procedure, the values that were set when creating the procedure change when loading the procedure or switching panes.

Problem. Cross section overlay problems when using Choose by ID. (DR 15867)

If you specify a line using the Choose by ID tool, then try to overlay cross sections, the cross section you want to overlay replaces the first cross section. If you select the line using the baseline tool, then you can overlay cross sections.

Workaround. Select the line using the baseline tool, then you can overlay cross sections.

Problem. VB 'Wind Direction' field does not account for map rotation for some grids. (DR 15957)

Although wind barbs/arrows/streamlines are correctly rotated to account for map projections, the Wind Direction field is not, in some cases. This is true for at least the GFS360, GFS90, and NAM(Eta)80 grids, but not (i.e., the field is correct) for at least ECMWF and UKMET grids. An easy way to see the problem is to go to the Northern Hemisphere scale, select GFS360 and ECMWF grids; Fields>Basic>Height, Wind and Wind Direction; and Planes>Pres>500mb. Click button 2 on both wind Direction lines, enable Image Combo from the Tool Bar, and Load[RT1]. Note that the wind barbs and height lines are in agreement, but sampling the combined image will reveal the problem.

Problem. Incorrect wind direction interpolation. (DR 15958)

If one displays wind direction as an image and samples, it's apparent that the interpolation across north (360/0 deg) is incorrect in most cases. Suppose adjacent grid points have winds from 10 and 350 degrees, respectively. Interpolated direction should go from 10 to 0, then jump to 360 and slope to 350. Instead, what one sees is the direction sloping the other way, from 10 through 180 to 350.

WarnGen logs to the previous day if a new session is loaded after the previous session overlaps breaklog. **(DR 7486)**

If a WarnGen session is loaded continuously in a pane before, during, and after the breaklog, any new WarnGen sessions launched in that same pane are logged to the previous day's logs.

Problem. The pathcast option is in the wrong place in the WarnGen GUI for tornado warning. (DR 12529)

When attempting to create a tornado warning in WarnGen, the "BASIS FOR WARNING" section states to choose 1 from the list of options. The "pathcast" phrase appears in this section along with "Doppler Radar indicated..." and all the other possibilities. The "pathcast" phrase should be moved to another section since it is valid to select this with another "BASIS FOR WARNING" option.

Workaround. Edit the product manually as necessary before transmission.

Problem. A zombie textdb process is created when the WarnGen QC function displays a message on the screen. (DR 12676)

When the WarnGen QC finds an error in a created text product, a message window is displayed to the user on the text workstation indicating the nature of the problem. The textdb process used to create this message window then goes zombie. However, there appear to be no adverse affects to the system from this problem other than that.

Workaround. None should be necessary, as full functionality is retained despite this problem. If necessary, reboot the workstation to clear the zombie process(es).

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Problem. WarnGen QC does not flag some errors. (DR 14226)

The WarnGen QC does not flag the changing of the third bullet "AT <time>..." to "AROUND <time>...". Also it does not flag putting extra "$$" after the forecaster's initials at the bottom of the products.

Problem. Storm path sometimes missing in WarnGen follow-up. (DR 14547)

In some cases, when a WarnGen follow-up product is requested, no storm path arrow appears on D2D (the warning box appears OK). Instead of the arrow, the "drag me to storm" dot appears within the warning box. The problem seems to occur when the third bullet of a warning has a missing or badly formatted storm "movement" clause. WarnGen parses the warning to find the storm movement and if a valid movement can not be found, it makes sense that WarnGen would not be able to show a storm path on D2D. In the future, it would be better if we were to use lat/lon coordinates to define the storm path.

Workaround. The "drag me to storm" dot can be moved to the current storm location which will result in a random incorrect storm path. Then the previous storm location can be set in a previous radar frame and a correct storm path results.

Problem. The D2D clock has trouble when setting the clock back five seconds near the top of the minute. (DR 15695)

The D2d clock is set back to set WarnGen into Test mode. When you set the clock back 5 minutes and the time in seconds is less than 4 seconds past the minute, the minute will not decrease and thus the software will not go into Test mode. For example, if the time is 9:20:02, and you click the seconds back 6 seconds, the resultant time is 9:20:57– a time in the future.

Workaround. You have to manually change the minute to 1 minute prior (e.g. 9:19:57 in the example above). The procedures work fine if the seconds are greater than 4 (i.e., 5 through 59).

Problem. The WarnGen Storm Motion will default to zero storm motion and a single storm format, if the third bullet is ambiguous. (DR 15839)

WarnGen uses the third bullet in the original warning to place the GUI for corrections, follow-ups, and partial cancellations. If this third bullet is ambiguous in terms of the storm location and storm motion, then WarnGen defaults to zero storm motion and a single storm format.

Problem. Selecting WarnGen Flash Flood warning causes a frame refresh delay. (DR 16028)

Selecting WarnGen Flash Flood Warning from WarnGen causes a slight delay before the user is able to do anything in the large pane. The more frames loaded, the longer the delay. It appears that each frame is refreshing. The delay also occurs when moving to any other product type while the Flash Flood Warning product button is toggled on.

Problem. WarnGen shows multiple selections for IC in flood advisories. (DR 16416)

Even though the header for the IC group says choose 1, WarnGen does not toggle between selections. It keeps highlighting them. But when the product is created, only one is used. WarnGen should allow only one to be selected, so when another IC is chosen, the original is deselected.

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Problem. WMO is incorrectly inserted into MND header upon SEND from textWS. (DR 16627)

While in test mode and issuing either a FLW or FLS product, the product looks ok when created but when you hit SEND and OK at the stop sign, you get an error because the WMO header info was inserted into the MND header.

Workaround. Restart D2D and textWS.

Problem. SVS failed to produce CRS product. (DR 15295)

When creating a follow-up SVS for a SVR , WWA produced a text product but did not create a CRS product. WWA expected a zone based product but warnGen created a county based product.

Problem. Severe Thunderstorm Warning has spurious commas in NWR browser. (DR 15320)

When a Severe Thunderstorm Warning is created in WarnGen, issued to the CRS, and then viewed in

NWRBrowser, there were commas were bullets should be and some "...." existed in the WarnGen version.

Workaround. This requires manual intervention to correct probable mistakes prior to sending to the CRS.

Problem. It is not possible to print color screen prints of hmap_mpe on the Linux workstation. (DR 12685)

The print_image script, which is used when doing screen prints of hmap_mpe, does not support the optional use of color printing on the Linux workstation.

Problem. NWSRFS IFP does not display colors as designed when alert request window is up. (DR 4240)

When running NWSRFS IFP on a monitor on which an Alert Request window is displayed, the NWSRFS IFP window sometimes does not display the colors as designed. This makes some data in the application unreadable for the user. This was noted in the Forecast Group Topology and IFP Plot windows, and may be a problem in other windows too.

Workaround. This is a color-contention problem. Close the alert window and restart NWSRFS IFP. Minimal operational impact.

Problem. DamCrest fails to store new Dam failure scenario. (DR 15334)

When adding new items to scenariolist, DamCrest fails to save newly added items in the GUI. An Error: could not update Sb bin database table is produced. The Dam Cat entry is not updated either.

Problem. DamCrest- close button does not work. (DR 15335)

The close button does not work. It asks you if you would like to save, but remains open.

Workaround. You must use the X button to actually exit.

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Problem. DamCrest graphics tab print not working. (DR 15382)

When in the Output manager window, the graphics tab information is not fully printed. It is caused a Java overflow memory error.

Problem. BBS download requires both UNIX account and LdadScheduler user. (DR 2470)

Workaround. Ensure that a UNIX account for BBS has a matching LdadScheduler user setup with a protocol selected in the protocol selection area. If a mismatch exists, the error referencing /ldad/bin/sz permissions will be displayed to the external user attempting to download data.

Problem. Xmodem and Ymodem BBS download adds extraneous characters. (DR 3605)

While using the LDAD BBS X and Y modem protocols, extraneous characters are added to the downloaded files. The extra characters are added at the end of the file.

Workaround. Use Kermit or Zmodem protocols for download.

Problem. Problems occur during downloads using Zmodem protocol in LDAD BBS. (DR 4089)

When using the Zmodem protocol to download in the LDAD BBS, the product requested is downloaded from the LDAD server as well as other products that are in the BBS menu. The product that is requested is downloaded first, then the cursor goes to the next product listed in the menu and downloads that product. This process repeats multiple times.

Workaround. None. There is no operational impact.

Problem. Xmodem receive does not work in the BBS. (DR 11869)

Within the BBS, downloading a file to the local computer does not work using Xmodem. An error message is received stating "Error limit exceeded".

Workaround. Use any other type of transfer, such as Kermit, Ymodem, or Zmodem.

Problem. Files are reported as missing when EMDS is launched from a browser. (DR 7099)

When EMDS is launched from a browser, it requests files that do not exist on the LS1 web server. The LS1 fasttrack error log reports:

> can't find /data/ldad/emwww/htdocs/localConfig/Graphic.mnu (No such file or directory)
>
> can't find /data/ldad/emwww/htdocs/localConfig/Probe.mnu (No such file or directory)
>
> can't find /data/ldad/emwww/htdocs/localConfig/Scroll.mnu (No such file or directory)
>
> can't find /data/ldad/emwww/htdocs/localConfig/Text.mnu (No such file or directory)
>
> can't find /data/ldad/www/htdocs/icons/grytxtr5.jpg (No such file or directory)

These files are not in the specified location on LS1.

Problem. The hmIngest process intermittently fails to process obs data. (DR 10554)

Two or three hours each day, on average, the hmIngest process fails to successfully process the hourly METAR netCDF file due to EOFExceptions or NullPointerExceptions. Thus, on these hours, no graphical observation data are available to the user.

Workaround. Use the text pane to view the text versions of the METAR observations or to refer to the SWR products.

Problem. Adding a new menu item in the configurator sometimes gives the wrong color and parent. (DR 7370)

When a user adds a new menu item in the configurator, sometimes the menu item is given the wrong color and parent. The menu item is off by a line or more when viewed in the menu.

Workaround. This is an infrequent problem. If the menu item is hard to read or does not respond, use the configurator to delete and recreate it.

Problem. The LocalizeWWW.pl script does not clean up /tmp/stationFiles after running. (DR 8092)

Running LocalizeWWW.pl creates a /tmp/stationFiles directory on LS1 that it never removes. This causes an error message to appear the next time the script is run.

Workaround. Remove the directory manually before running LocalizeWWW.pl again if desired. However, the error message has no impact on the success of the script.

Problem. The PostConfigure.pl script has an rcp error. (DR 8094)

As part of its operation, PostConfigure.pl tries to copy a file onto the DS from the LS, but fails, stating "rcp: /awips/ldad/data/: No such file or directory".

Workaround. None. However, this does not seem to cause any problems, so ignore the error message when it occurs a line before "Finished: Remotely modifying the Graphic.menu and pollForData.conf files."

Problem. Switching between Probe methods back to the Draw Area Probe method crashes the display pane. (DR 10397)

There are several different methods by which data can be probed in EMDS. Once a probe session has begun, the user can freely switch from one probe method to another within the same probe session, with the exception of Draw Area to Probe. The user can use Draw Area to Probe successfully if it is the first method selected during a probe session. However, within the same probe session, if the user chooses a different probe method first, and then chooses Draw Area, or uses Draw Area first, switches to another method, and then back to Draw Area, the graphics pane being used for the Probe crashes. The pane goes completely black and loses all of its displayed data and menu items.

Workaround. Select the Clear button to restart the crashed pane.

Problem. Adding new parameters to a Probe list is not always successful. (DR 8902)

While using Probe, the user can remove or add items to the list of parameters being probed (e.g., remove temperature or add wind). Sometimes, when a parameter is added to the list, there is a lag until it fully becomes part of the list. Normally, an added parameter takes effect on the next move within a Probe session (e.g., choose a different county to probe). The parameter is added to the list with its respective values. However, if a particular parameter is added to the list for the first time during an EMDS session, and a Time Series graph is being displayed in the Probe window, a new line for the parameter is added to the list, but the name and values all say N/A.

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The name and values do not fill in until the NEXT probe move is made. The data are there though, as you can graph a time series of the N/A data, and actual data does graph, although the name of the data is N/A.

Workaround. Choose another county/zone/etc to probe, and the N/As will fill in with the name and values of the parameter.

Problem. The observed wind barb parameter is not displayable on the graphics pane. (DR 9056)

When attempting to load Wind Barb from the Observations -> metar menu of the graphics pane, the following error occurs in the java console window:

"Could not fetch parm from server. Either gray text error in MenuDyna or Incompatible file format data/vobs-metar-WindVector-national-0103080720...dat = null"

The product does not display in the graphics pane.

Workaround. Users can get wind information from the METAR observations and hourly weather roundup products in the text pane.

Problem. Clearing a probe area on the graphics pane by toggling the menu item also toggles the map background. (DR 9057)

Many products can be cleared from the graphics pane by selecting the menu item again to toggle the product off. Probe areas that have been outlined on the graphics pane can be cleared in such a manner. However, when the probe action menu item is selected to toggle off the probe area, the map background is also toggled off, leaving a display with no background. This seems to happen most often when the counties map background is displayed, which is the default map background.

Workaround. The map background can be easily toggled back on by selecting the appropriate map background from the Geography menu.

Problem. Replacing displayed images with ones that have not yet been displayed causes a traceback. (DR 9069)

An image displayed in the graphics pane can be replaced with another image by selecting the new image from the menu. If it is the first time in the current EMDS GUI session that the new image has been loaded, the java console window reports tracebacks as follows:

Exception occurred during event dispatching: java.lang.NullPointerException

This occurs especially if any of the animation tool bar buttons have been selected, such as looping. In addition to the tracebacks, the animation function stops, and often the cursor becomes a paintbrush painting the screen with the new image as it is moved about the screen.

Workaround. Select another tool bar button and the image will load and display successfully. No other negative effects have been seen. Once the product is loaded once, the problem no longer occurs for that product if it is loaded again during the current session.

Problem. MenuConfigurator reports an error on startup. (DR 9084)

When the MenuConfigurator is started, in the java console window, the following error is reported:

MenuDyna.java 258 ERROR: IOException = java.io.IOException: Cannot find URL Cont

ext=http://140.188.2.141/localizations/BOX/wkspace and spec=Xtensibl.mnu

This is because the file is actually Xtensibl.frm. This does not seem to cause any problems with editing Text menus in the configurator, but it may cause problems when editing and creating graphics products and map backgrounds.

Problem. Newer NWS sites are not in map background and may not be configured. (DR 9085)

The newer NWS AWIPS sites that were added to the deployment, namely Key West, Huntsville, and sites in Maine and Indiana, are not included in the map background NWS Forecast Offices. They may also therefore not be set up as configurable sites. If that is the case, web dissemination will not be localizable to these sites.

Workaround. Manually edit localization files from other sites to tailor them to the new sites.

Problem. The hmIngest process does not process leftover files in /data/ldad/hmIngest. (DR 9174)

If hmIngest fails to process files in /ldad/data/hmIngest for any reason, when proper processing resumes, hmIngest does not process those leftover files. Instead it merely resumes processing with new products as they come in. So unlike a decoder, which cleans out its input directory, the products that hmIngest missed the first time are not retrieved, and thus are lost. The products are eventually purged.

Problem. The list of files to synch is blank if too many files are involved. (DR 9175)

During a synchronization, EMDS checks to see which files on the user's PC need to be synched with those on the LS. Once this list of files is determined, the user is given the list of files to be synched and asked if he wants to synch. If the number of files to be synched is too large, no list of files is presented to the user. The window tells the user the following files are to be synched, but then does not list any files. This could cause confusion, and possibly cause the user to choose not to synch when he should.

Workaround. If the synch window appears, asking if you want to synch, but does not list any files to be synched, choose yes to perform the synch.

Problem. The scroll bar in the menu configurator GUI does not scroll. (DR 9176)

In the menu configurator GUI, the user can expand menus in the headers to see the sub-items. However, if the menus are expanded down such that they exceed the length of the window, the scroll bar does not allow you to scroll down to see the other menus.

Workaround. Contract some of the menus in order to see the lower ones.

Problem. Sampled text does not wrap at edge of pane. (DR 9232)

When sampling in the graphics pane, the sampled text adjusts and displays to the right or left of the cursor as necessary to be displayed in the pane. However, if the text is still too long, it displays to the edge of the pane and then gets cut off. The rest of the text does not wrap, and thus is not displayable.

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Workaround. None. The extent of the impact caused by this problem will depend on the monitor size and screen resolution of each user's monitor.

Problem. The link for HP developers is incorrect. (DR 11226)

On the Download Page of the EMDS web page, there is a link to go to HP for more information on HP-UX. However, this link has been changed by HP. The new link is http://www.hp.com/go/developers.

Workaround. Use the new link to view information for HP developers.

Problem. Synchronization from within the EMDS GUI does not work. (DR 11353)

There are basically three ways to synchronize the EMDS application: 1) use the synchexe application, 2) synch as the first step to bringing up the EMDS GUI, or 3) synch from within the EMDS GUI using the Synchronize Application menu item from the File menu of a graphics pane. This third method does not work. When it is chosen, the cursor momentarily goes to an hourglass, but then nothing happens. The java console window reports the following:

MenuDyna.java 538 ERROR: IOException on Bean instantiate: Package/Class Name =l

dadapp.util.syncBean

Workaround. Use either of the first two options noted above to synch the application.

Problem. First time loading the Wind Vector contour product produces a java traceback. (DR 11354)

When the Local scale Wind Vector contour product is displayed on a graphics pane for the first time in an EMDS session, a java traceback scrolls in the java console window. However, the product does load successfully on the screen, and all subsequent displays of this product within the same EMDS session load without any java traceback. No other ill effects have been noticed from this error occurring.

Workaround. None, but no operational impact.

Problem. The ifps grids fail to be processed by hmingest. (DR 13606)

The ifps grids that can be sent from AWIPS to EMDS for display on the EMDS GUI fail to be processed by hmingest. See error below. The result is that the user is unable to display any forecast grids on the EMDS GUI.

Dec11-17:06:25GMT[IngestShell:IngestHandler]> EVENT: IngestHandler.readMessage(): , _fileType = model:ifp:Official:national, _fileName=/data/ldad/hmIngest/model-ifp-Official-national.20031211_1650.1071162621

Dec11-17:06:25GMT[IngestShell:IngestShell]> EVENT: run(): ERROR: , currentThread().hashCode() = 251236959hmlib.utils.TaskReqError: [IngestShell.makeRequest] A request cannot be assigned to a task: Mill name model-ifp-nationalMill is not configured.

Problem. The LDAD Scheduler does not support interrogation of password-protected Sutron gauges. (DR 8777)

Sutron gauges have the capacity to require a username and password in order to be interrogated. The LDAD Scheduler currently does not have the capability to interrogate such a gauge.

Problem. The LDAD triggers template is too restrictive. (DR 4865)

Several entries in the LDAD triggers template do not create useful PILs when matched with the ldadSiteConfig.txt directives. For example, in the QC products (00nQCa), the XXX matches the local site ID, while the directive ww1 used in the template may use the AFOS node for other reasons.

Workaround. Users need to go in and edit their triggers. Refer to the System Manager's Manual for more information on editing triggers.

Problem. qcstats.exe hanging at some sites. (DR 16504)

Workaround. SST to work with sites to filter the data.

Problem. The MaritimeDecoder does not decode Coast Guard reports. (DR 3697)

These reports are used by the Hourly Weather Roundup.

Problem. LightningPlotInventory acquisition has a logic flaw. (DR 4519)

The constructor for the LightningPlotAccessor class uses a time range to obtain CG lightning data. It uses the LightningPlotInventory class to get the valid inventory from that time range. However, if that time range overlaps the hour (i.e., 1358 to 1404), the function LightningPlotInventory::numRecords() fails to count ANY lightning data. It fails because it uses the minutes as a loop variable, but when the end time minutes (04) is less than the start time minutes (58), the loop is never entered.

Workaround. There is a small chance of losing lightning data at the top of the hour. However, this is unlikely because no data selections currently on D2D cross hour boundaries.

Problem. First Red Banner is not received when failing back an AS swap package. (DR 2494)

When failing back either AS swap package to its primary, the first Red Banner message announcing that a swap is in progress seldom appears on the D2Ds. The second Red Banner message announcing the swap is completed is successfully received.

Problem. The process monitor shows LAPS as being in a red state during a failover of AS1 to AS2. (DR 3737)

When AS1 is failed over to AS2, LAPS processes are not supposed to run. The process monitor reports this by showing LAPS processes as being in a down (red) state. This is correct, but it may make a site think it can restart the processes. This would be a mistake, causing other processes to be restarted but not fixing LAPS.

Workaround. None. Do not attempt to restart LAPS when either AS is in failover mode.

Problem. Simpact failover is slow when DS1 is disconnected from the FDDI ring. (DR 4562)

When a Simpact failover is performed while DS1 is disconnected from the FDDI ring (or possibly also if it is powered off), the Simpact swap slows to a crawl, and the following time out message is displayed 4 times "rcmd: connect: ds1-<site>: connection timed out". The swap eventually completes, but this adds about 4 minutes to the swap time.

Workaround. If possible, ensure that DS1 is connected to the FDDI ring before performing a Simpact failover, even if DS2 is the primary Data Server at the moment.

Problem. Process Monitor becomes confused during failover. (DR 4856)

During failover, the Process Monitor becomes confused about which system it is running on. As a result, processes are shown running on several systems.

Workaround. Ignore the monitor during the failover and then wait a few minutes for things to sync up.

Problem. MetarDecoder reports numerous errors for a period of time after a DS swap. (DR 6521)

After a DS1 swap to DS2, the MetarDecoder reports numerous errors for a period of time when trying to decode products. The period of time is about an hour.

Workaround. None. The METAR reports are stored successfully despite these errors.

Problem. The /opt/informix partition becomes stale on the workstations during DS swap. (DR 9078)

Some processes may remain connected to /opt/informix during a DS swap, causing the partition to become stale on one or more workstations. It has been known to occur when hydrology applications are running on the workstation.

Workaround. Kill the process(es) that is still accessing /opt/informix and execute the unmount/mount commands.

Problem. MC/ServiceGuard may generate core files during system reboot. (DR 10418)

If ServiceGuard does not handle a site system reboot smoothly, it may generate huge core files in ds1:/var/adm/crash/. This causes /var to fill to 100 percent. The INDEX file indicates a "TOC" error in these situations. This appears to only happen with K-series servers.

Workaround. The reboot completes successfully despite this problem. Simply remove the core files from /var to avoid filling up the disk space.

Problem. WarnGen is very slow to create text if D2D is not restarted after a DS swap. (DR 10678)

If a D2D is not restarted after a DS swap occurs, a WarnGen session run from that D2D will take one to two minutes to create text on the text workstation when the Create Text button is selected in the WarnGen GUI.

Workaround. Restart all D2Ds after a DS swap occurs.

Problem. Some WWA messages log to the DS swap package control log. (DR 10683)

Workaround. Refer to the DS swap control log in addition to the WWA log when analyzing WWA operation.

Problem. SIMPACT failover does not execute cleanly when dsswap is on DS2. (DR 11324)

When executing a SIMPACT failover while the dsswap package is on DS2, the CP_Reconfigure script returns the following error:

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rcmd: connect: ds1-osfw: Connection timed out.

The VIRs swap over, but the logical software links do not (in /awips/fxa/bin).

Workaround. Contact the NCF for assistance in re-establishing radar connectivity on SIMPACT 2.

Problem. LSR may not function properly after a DS swap. (DR 11969)

Workaround. Log out of, and back into, the workstation and LSR will then function properly.

Problem. Occasionally some scheduled gauge collections fail after a DS fail-back. (DR 12742)

Occasionally, after the dsswap package is failed back from DS2 to DS1, scheduled gauge collections may fail, resulting in repeated tell_co errors.

Workaround. Check all scheduled requests after a dsswap failback to DS1. If they are not working, reset them.

Problem. After ftp is disabled, Simpacts cannot be restarted. (DR 14169)

During disabling of ftp (and all other encrypted remote access), Simpacts would fail to run on a reboot. The problem is that simpacts use ftp to load the Simpact configuration on start-up.

Workaround. Re-enable ftp on the DS whenever a Simpact needs to be restarted/rebooted.

Problem. When the router is not available, the PX/DX packages will fail over. (DR 15724)

When ever the PX or DX lose connectivity to the site router, they will usually fail over. This is because of a freeware error in the heartbeat software. In the near future, a new version of heartbeat will be installed that has the fix.

Problem. Logging in as oper on Linux produces a message indicating the tabs command is not found. (DR 10431)

The /home/oper/.profile produces the following message when the oper user logs into a Linux workstation:

ksh: /home/oper/.profile[17]: tabs: not found

The tabs command does not exist on the Linux operating system.

Workaround. This message does not cause any problems and can be ignored.

Problem. The readenv script may not recreate the /tmp/environs.* files in some cases on Linux. (DR 11592)

When the fxa environment changes and the readenv script is called, it recreates the environs files in /tmp. However, in some cases this does not happen, and the files just get appended to. For example, if the environs files in /tmp are owned by awipsusr, and the environment changes, the script logs into the Linux workstation as fxa and is unable to remove the files in /tmp. Instead, the files get appended to. This could ultimately result in these files becoming very large, which would cause the sourcing of the environment to take time. There are two problems. First, the -f option for the rm command in readenv.csh is missing. Second the -f command for rm on Linux

does not work the same way as it did on HP-UX. The -f option for rm on Linux does not allow a user to delete a file owned by another user, even if the permissions are 777.

Workaround. None, but operational impact should be minimal. The environs files in /tmp are remade every 30 days when the root cron cleans out /tmp.

Problem. Limit the root no-password access to other users (on local and other machines). (DR 14350)

There is a need to keep root's SSH no-password access to other users consistent for all users on local and remote machines. The main concern is the extra overhead needed to support the authorized_keys for all the extra users on the system.

Workaround. When setting up SSH access, no-password access should be limited since this may be disallowed at a future date.

Problem. RPS List Editor–when trying to select a product and an error is returned. (DR 15204)

When an operator tries to select a product to "Add" to an RPS List - SW for example, and an incorrect Data Level is selected, the operator will see: " The product requested is not valid. Please ensure that the combination of settings you have chosen are correct, then resubmit". The Add Product GUI then exits and the operator has to invoke the GUI again to try to add the products. The Add Product GUI should remain in place to allow the operator the chance to correct the settings and add the product.

Problem. Request/reply incompatible between releases (DR 16357)

If an OB5 site uses the "request from remote site" option on a text window to request a product from an OB6 site, after a time it will get a pop-up window saying that no response was received from the remote site. The same is true when an OB6 site requests a product from an OB5 site. Request/reply works fine between two OB5 sites and between two OB6 sites.

Workaround. Request a product from a site at the same release.

Problem. Design files and virtual field table do not handle dangling delimiter well. (DR 9316)

For both the code that parses the virtual field table for gridded data (i.e., virtualFieldTable.text), and the code that parses design files for point data (e.g., metarStdDesign.txt), if one leaves an extra dangling delimiter at the end of the line, the code treats the dangling delimiter as an additional blank entry. This often causes behavior that the user does not expect and is very hard to diagnose. In the virtualFieldTable.txt file, the offending delimiter is a vertical bar. In the point data files, the offending delimiter is a space.

Workaround. When performing site modifications to the file types cited above, be sure that no dangling delimiters are introduced into the files.

Problem. Localizations (mainScript.csh) run concurrently cause file contention. (DR 10090)

Attempting to run localizations on multiple workstations concurrently generates errors due to the naming convention of the temporary files the localization generates and uses. The localizations

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on each workstation try to use the same temp files (e.g., work.bcd, work2.bcd) that are stored in /awips/fxa/data/localization/nationalData.

Workaround. Do not run concurrent localizations on the servers or workstations.

Problem. Localization creates unnecessary default RPS lists. (DR 10697)

During localization, default RPS lists are created for both dedicated and dial radars. However, only dedicated radars need default RPS lists. The dial radar default RPS lists that are created are not needed and cause localization to run longer than necessary.

Workaround. None. Simply ignore the default RPS lists that get created for dial radars.

Problem. Linux CPs miss a file when the -radar localization is run on DS1. (DR 10756)

The CP reads some acq_wmo_parms.* files upon start-up to control filtering of data. While most of these files are fairly static and are controlled as part of the national baseline, there is one exception. The acq_wmo_parms.sbn.radar file is created every time a -radar localization is run on the DS. This file is created in /awips/hprt/data, which is no longer mounted on the Linux CP, whereas it was on the HP CP. While the file is recreated every time by the localization, this file only changes if changes are made to the dialRadars file. If changes are made to this file, the Linux CP will never know them.

Workaround. Run the script /home/awipsadm/Update_LinuxCP as user root on DS1. This copies the file over to the Linux CPs and reloads the parms files.

Problem. After a localization on PX for grids, the GribDecoder logged errors. (DR 11029)

After running a localization on PX1 for grids, the GribDecoder wrote error messages to stdout while running. However, this did not seem to cause any problems with data processing.

Problem. Dell utilities do not work on the PX's. (15942)

Dell utilities do not work on the PX's. The problem is due to using software raid on the PX's.

Problem. Keyword links in Netscape Script help windows do not work. (DR 4120)

The Keyword section at the bottom of all Text Script Netscape help windows has dead end links. There appear to be no defined help pages for these key words.

Problem. Four-panel displays do not print correctly. (DR 602)

Printing a 4-panel display produces a mess of all contours plotted on a single map background. An information box appears indicating that printing 4-panel displays is not currently supported.

Problem. The MMG text products cannot be printed from the text window. (DR 13260)

The national marine products in the MMG series (e.g. MMGNE1 and MMGSE1) have extra garbage characters on line 3 that prevent the products from being printed from the text window. The extra characters are normally "\x1e", and are only seen via the text window.

Workaround. In a Telnet window, save the product to a text file using:

textdb -r NNNXXX > filename

Then print the file.

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Problem. The Netscape Monitor sometimes stops working or reverts back to a previous date after a server swap. (DR 4229)

After server swaps, some panes of Netscape either stop updating from that point on, or revert back to a previous date and then resume updating normally after a few minutes.

Workaround. Reload the Netscape Monitor.

Problem. Running the CPU history monitor from Netscape produces zombie processes. (DR 5154)

Running the CPU history monitor from the Ingest Processes section of Netscape produces a zombie csh process owned by fxa on that workstation, and a zombie cpu-setup.sh process owned by www on AS1.

Workaround. Both zombie processes die when the CPU history monitor is closed. These zombie processes do not appear to affect the operation of the Netscape, CPU history monitor, or the workstation.

Problem. There are intermittent broken icons in the Netscape monitor. (DR 13702)

The icon images on the Netscape monitor sometimes appear to be broken, but then reappear upon a refresh.

Workaround. None needed. The information displayed on the Netscape monitor continues to be correct even when the icon images are not displayed.

Problem. When Exit is selected from Alert Areas tool, all the displayed graphics are cleared, not only those associated with the Alert Areas Editor. (DR 6253)

Workaround. Re-load all the graphics that are cleared.

Problem. Too much radar data is being stored via the SBN. (DR 6407)

For many western sights, the dialRadars.txt file is quite large. The acq_wmo_parms.sbn.radar file, which tells the CP which radar products to keep from the SBN, is created from this file in addition to the wmoSiteInfo.txt file. All of this radar data is processed and stored on the system regardless of whether the site is utilizing all of the sites.

Workaround. Comment out or remove entries from acq_wmo_parms.sbn.radar for sites which are not being utilized or remove those sites from dialRadars.txt.

Problem. Bogus startup of syncComms cs_config1. (DR 6503)

At a few sites, there were numerous wfoApi logs in /data/logs/fxa/<date> complaining about not being able to start up port 1 because it was not found in the portInfo.txt file. These sites did not have any radar lines connected to port 1.

Workaround. Issue an icpReset0 to realign the port assignments.

Problem. The restartRadar process writes to fxa's mail. (DR 10386)

Workaround. None. Refer to fxa's mail for messages from restartRadar as necessary. Clean out fxa's mail manually if disk space becomes an issue.

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Problem. FTMs are issued by all sites with dedicated radar connections. (DR 10795)

All sites with a dedicated radar connection issue FTMs when that radar connection is down for maintenance or repair work. However, only the primary site for that radar needs to issue the FTM. For example, MOB is the primary site for the KMOB radar, and JAN has an associated feed. However, when the radar goes down for scheduled maintenance, both MOB and JAN issue FTMs. Even RFCs and Regional offices issue FTMs on the radars from which they have a feed. The result is that multiple FTMs are issued when a radar goes down for maintenance. The only time an associated site would need to issue the FTM is if the primary site is down.

Workaround. None. Ignore the multiple issuances of the FTM product.

Problem. The RadarTextDecoder reports an error when attempting to open an STImotion file. (DR 12594)

The RadarTextDecoder process reports the following for STI products received for the site's dedicated radars:

20:51:48.265 decodeRadarText.C EVENT: Processing file: Graphic.2003050720514797.KAKQ

20:51:48.271 decodeRadarText.C EVENT: Processing code: 58

20:51:48.272 decodeRadarText.C EVENT: Generating Text Product.

20:51:48.288 textRoutines.C Unable to open file /data/fxa/radar/kakq/STImotion/20030507_2051: No such file or directory

20:51:48.296 textRoutines.C EVENT: Writing: WSRSTIAKQ

There is no STImotion directory, although there is an STI directory, and STI products are stored there successfully and are displayable on D2D. As the log shows, the WSRSTIXXX text product does store successfully despite this error message.

Problem. The wfoApi.StateInfo file does not get updated completely when the VCP mode changes to VCP 11. (DR 12837)

If a dedicated radar is in VCP mode 21 and switches to VCP 11, the RadarServer does not change the fifth field for that radar in the /data/fxa/workFiles/wfoApi.StateInfo file from 21 to 11. While radar functionality is not affected by this, this could cause confusion for a user looking at this file.

Problem. The wfoApi process can become hung. (DR 12839)

Infrequently, a dedicated radar's wfoApi process can become hung, creating wfoApi logs several times a minute reporting a 'null' port value.

Workaround. Execute the stopRadar script and then allow the fxa cron to re-establish the active ports.

Problem. MEMMTR000 includes METAR observations that it should not. (DR 6740)

KNAR reported that a MEMMTR000 request from a text window brought up additional METAR observations that should not be included (KAHN, KAKQ, KGDB, KJCT, KJUP). These were also listed in the text window browser. It appears that the file used to map the CCC with the NNN may be wrong at least for KNAR.

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Workaround. None; the extra data can be ignored.

Problem. The stopIngest scripts report minor error messages. (DR 3518)

For example, stopIngest.* attempts to stop some processes twice, and thus gives multiple messages:

"/awips/fxa/bin/stopIngest.ds1[50]: kill: The number of parameters specified is not correct."

It usually kills the processes on the first attempt (but not always). The stopIngest.ds1 and stopLdadIngest scripts also attempt to stop unowned processes (ldad CommsRouter and DataController versus the fxa version) and give the following error: "kill: 21030: Permission denied."

These errors are very minor, but could cause concern for users trying to troubleshoot logs.

Workaround. Ignore the error messages. They do not affect the outcome of the scripts.

Problem. DataController logs stop, but do not restart. (DR 5742)

Sometimes one of the DataController logs terminates normally around 0Z, but fails to restart a new log for the new day. The processes are up and running, but new logs are not created.

Workaround. Stop and restart ingest to start the logs again.

Problem. The Announcer logs do not display the correct time stamps. (DR 10825)

The SYSTEM and RADAR Announcer logs in /data/fxa/workFiles should display the date at the beginning of each line, but instead are displaying a string of numbers.

Problem. Error reported in BufrDriver goes soundings logs. (DR 11172)

The following error appears in the BufrDriver logs for the GOES soundings once or twice a day:

BufrDriver20332as1-tbdw002705:00:27:58.226 NetcdfPointData.C nClientlessHandles 0 fileOpenCount 12

The log always shows the decoder successfully moving on to the next file after this message.

Problem. A PROBLEM message is sometimes reported in the BufrDriver logs. (DR 12368)

The following PROBLEM message is seen in the BufrDriver goes and hdw logs a few times per day:

09:57:43.546 NetcdfPointData.C nClientlessHandles 0 fileOpenCount: 18

Workaround. None, but no operational impact. GOES and HDW products are still processed and stored successfully despite these messages.

Problem. POES and GOES sounding data are stored twice at some sites. (DR 12542)

This is because the entries for these data are listed twice in the acq_patterns.txt file on PX2. The acqserver reports the following when processing this data:

acqserver 21928 00:28:26.520 EVENT: NCF_ENTRY: JUTX06 KNES 250027 Cat: POINT 104295 #85408234

acqserver 21928 00:28:26.520 EVENT: NCF_STORE: JUTX06 KNES stored in
/data/fxa/ispan/bufr/GOESSoundings/JUTX06KNES.25002826.295

acqserver 21928 00:28:26.520 EVENT: NCF_STORE: JUTX06 KNES stored in
/data/fxa/ispan/bufr/GOESSoundings/JUTX06KNES.25002826.295

acqserver 21928 00:28:26.521 NCF_FAIL link failed 4:
/data/fxa/tmp/point/JUTX06KNES.25002826.295

/data/fxa/ispan/bufr/GOESSoundings/JUTX06KNES.25002826.295 File exists

The data are still stored and then processed by the appropriate BufrDrivers successfully despite this problem.

Problem: The CommsRouter COMMS_ROUTER logs an error upon startup. **(DR 13516)**

The CommsRouter COMMS_ROUTER process on DS1 logs an error upon start up, as shown below.

19:12:10.466 IPC_Target.C Can't name IPC_Target:
@^C{^CM-8x{^CM-8M-^X{^CM-9M-x{^CM-: Not a known named target defined in
ipc.config

Problem. Two StdDBDecoders possible due to Partial Write. (DR 14897)

It is possible to have two StdDBDecoders running due to a second StdDBDecoder being spawned to handle Partial Writes. The second decoder is not spawned until a Partial Write occurs.

Workaround. This decoder does not process any data nor does it take up CPU. It can be killed with a stop/start ingest.

Problem. Two DataControllers possible due to Partial Writes. (DR 14898)

The second Data Controller does not process any information beyond the partial writes.

Workaround. Does not take up any CPU or log.

Problem. Requests are not queued when the MhsRequestServer is down. (DR 3820)

Requests that are made through the Request/Reply function when the MhsRequestServer is down are not acknowledged by the MhsRequestServer and are thus lost.

Problem. MHS - error deleting nack file. (DR 4090)

The MhsServer errors when trying to delete a nack file after notifying the user. The error message is as follows:

02:06:05.768 MhsWfoProduct.C Error deleting nack file:
/data/fxa/mhs/nackq/TBW3-16123.doc: No such file or directory.

The reason is the file is actually named TBW3-16123-TBW4.doc.

Workaround. This should not be a problem, as the MhsPurger daily cleans out this directory. The MhsServer handles ack file names correctly and is able to delete them.

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Problem. WAN OTRs can cause status log of receiving ORPG to fill. (DR 14450)

ROC reported that many WAN OTRs were received from TBDR causing the ORPG's status log to fill. It has been suggested that AWIPS should stop sending OTRs after a certain number of OTRs fail.

Problem. Alaska hydrology data is not ingested. (DR 4534)

A large portion of Alaska's hydrology (SHEF) data has a header of SRUS32.KWOH. This is not in the baseline /awips/fxa/data/acq_patterns.txt file. The Alaska sites have it in their acq_patterns.txt file, but this file will be replaced during the installs.

Workaround. The workaround is to add additional acq_patterns that they want to their /awips/fxa/data/localization/<siteID>/<siteID>-acqPatternAddOns.txt file.

Problem. Localization errors occur on the OCONUS system. (DR 9527)

The following errors are seen during localization on the OCONUS system:

running makeClipSups.csh

grep: can't open /awips/fxa/data/lampGrid%%%nx%%%ny.cdl

grep: can't open /awips/fxa/data/lampGrid%%%nx%%%ny.cdl

grep: can't open /awips/fxa/data/lampGrid%%%nx%%%ny.cdl

grep: can't open /awips/fxa/data/lampGrid%%%nx%%%ny.cdl

insufficient arguments for corners option.

Problem: The /awips.install/host_config_file is incorrect for the GUM CPs. (DR 12792)

The GUM CP entries should show 4 demods, rather than 2:
cpsbn1-gum pr.awips.noaa.gov 165.92.174.50 4
cpsbn2-gum pr.awips.noaa.gov 165.92.174.51 4

This problem applies only to GUM and will be noticed only when a GUM CP is reloaded from an image.

Workaround. If a CP is reloaded from an image, edit the host_config_file for the appropriate entries and re-run start_newhost.

Problem. The lvd_sat_ingest script looks for westCONUS data. (DR 11214)

At OCONUS sites, the lvd_sat_ingest script looks for data in /data/fxa/sat/SBN/netCDF/westCONUS, but there are no files in this directory at these sites. The projections available at the OCONUS sites are different, and LAPS is not set up to use them. LAPS runs without any problems even though it cannot find the satellite data, but of course it is thus not using all of the data available to it.

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Problem. State/County Boundaries Legend appears twice at Alaska sites. (DR 4524)

If "State/County" is selected from the "Maps" menu at State scale, a second State/County map legend appears in addition to the default State/County map feature. The two map features are almost identical and can be distinguished only by zooming in very close.

Workaround. Remove one of the duplicate map features manually if desired, but the presence of duplicates does not appear to cause any problems.

Problem. Longitude is not available far enough to the west in Product Maker. (DR 2537)

Choices in the Longitude menu of the Product Maker only go west to 180W. Longitudes beyond this are not available selections.

Workaround. None. Restrict longitude selections to 120W or less.

Problem. Cannot load satellite images from Product Maker for Guam. (DR 4459)

The user cannot load any satellite images from Product Maker for Guam at any scale. When you try to load the image the following Tcl error is displayed:

Error:can't read "keyname": no such variable.

Problem. The GOES Sounder Imagery CONUS sectors should be removed from OCONUS sites. (DR 13545)

CONUS GOES Sounder Imagery does not display or loop properly at OCONUS sites. This is due to the non-matching times of the scans and because the CONUS area is somewhat (or completely) off the OCONUS maps. Therefore, the CONUS imagery should be disabled at Pacific Region sites. For the Alaska Region, all East CONUS imagery should be disabled (the West CONUS imagery should be retained, since it is somewhat relevant to Alaska sites). Also, GOES Sounder Imagery should be disabled on the relatively local scales of the Alaska sites (i.e., Aleutian & Mainland).

Workaround. None needed. Although the GOES Sounder Imagery menu options are enabled at OCONUS sites (i.e., not grayed out), no harm is done if the menu items are selected. The products are simply not displayed.

Problem. Volume Browser has RUC40 listed in the source. (DR 6436)

The RUC40 model is listed in the Source menu of the Volume Browser at OCONUS sites. However, this model only covers CONUS sites, and thus is not displayable at OCONUS sites.

Problem. ESPVS Data Generation does not work with CPCoutlook data. (DR 14733)

The CPCoutlook data in the netcdf files in /data/fxa/Grid/SBN/netCDF/CONUS211/CPCoutlook does not work with the ESPVS Data Generation.