

## AWIPS OB8.1 Final Release Notes

### Section II – Discrepancy Report Fixes in OB8.1 (Discovered in OB8.1 and Prior Releases) and Maintenance Release OB7.2.1

#### Table of Contents – Section II

<b>1.0 D2D/TEXT/OTHER APPLICATIONS .....</b>	<b>1-1</b>
<b>1.1 Color Curve/Blinking/Image Combination.....</b>	<b>1-1</b>
<b>1.2 Looping/Sampling/Swapping Panes/Zooming .....</b>	<b>1-1</b>
<b>1.3 Climate .....</b>	<b>1-1</b>
Problem. Guam: Climate product still says LST (Ref OB8.2 DR 18925).....	1-1
Problem. Climate monthly product has incorrect data.....	1-1
Problem. Investigate ways to incorporate threaded extreme temperature into Climate.....	1-1
Problem. Localization logic should use unchanged source entry if it cannot decode dimensions from the cdl.....	1-2
Problem. Interpolating for missing dew point temperature and plot missing data. ....	1-2
Problem. LAPS: Error message displayed when LAPS Tool GUI started.....	1-2
Problem. LAPS Tool GUI cannot locate log files.....	1-3
Problem. LAPS Tool GUI does not work in failover mode.....	1-3
Problem. Climate Extreme data updates (DCS 3375) (Ref. OB7.2 DR 18123).....	1-3
<b>1.4 Radar.....</b>	<b>1-3</b>
Problem. Multiple ULR products can not be requested in RPS (Ref. OB7.2 DR18333).....	1-3
Problem. 8-bit 2.4 and 3.4 Z sometimes update with 4-bit image when 8-bit is available.....	1-4
<b>1.5 Text Alarms/Warnings .....</b>	<b>1-4</b>
<b>1.6 Satellite.....</b>	<b>1-4</b>
Problem. No 4Sat composite imagery available on TBW4 (SBN4Channel baseline test case fail (Ref 18728).....	1-4
<b>1.7 GFE .....</b>	<b>1-4</b>
Problem. GFE: Wrong Tabular transport wind forecast source used for FWS.....	1-4
Problem. GFE: missing cwr values in FWS when PoP is used for cwrParm.....	1-4
Problem. GFE: FWS – Slight Chance Weather dropped in the forecast.....	1-5
Problem. GFE: non-top of the hour ignition times cause FWS to sample data incorrectly.....	1-5
Problem. Incorrect Tabular/Narrative format used for FWS.....	1-5
Problem. GFE:Change needed for automated testing from lx (Ref: DR18124).....	1-5

Problem. The run Formatter is not working for a new product. ....	1-5
Problem. FWS Formatter – Number Versions of STQ Bug. ....	1-5
Problem. GFE intersite coordination fails when SMTP turned on (Ref GFE-ISC DR 18499). ....	1-6
Problem. Bug in baseline Hazard_WCN: Definition["purgeTime"] misspelled (Ref 18728) 1-6	
Problem. GFE: Conversion to metric wind speed values in the FWS (Ref 18410).....	1-6
Problem. Problem with save/load draft of AFD product (Ref 18441). ....	1-7
Problem. GFE: New tropical concept of operations very confusing (Ref 18518). ....	1-7
Problem. Numerous typos in the new tropical CTAs (Ref 18434). ....	1-7
Problem. GFE: MSAS SFC_T grid problem. ....	1-7
Problem. FWS formats Day 3-4 forecast when only Day 6-7 desired (Ref 18409).....	1-8
Problem. GFE: time zone problem with FWS formatter (Ref 18400). (DR 18835).....	1-8
Problem. IFPS Service Backup - localMapFiles.py file deleted (Ref. 18097). (DR 18831) 1-9	
Problem. Unable to create GFE text products for CCF, MVF, PFM & SFT_ALU on TBW4. (DR 18875).....	1-9
Problem. Unable to transmit any GFE hazard products at TBW4. (Ref 18874) .....	1-10
Problem. The GFE grids are not available on TBW4.....	1-12
Problem. GFE Automation test failed for testAllowedHazardNPW_2 test case. ....	1-12
Problem. Two auto tests fail (testCCF_1 and testCCF_3) (Ref 18268).....	1-12
Problem. FWS text product failed during SIT at TBW4 test bed.(Ref 18283) .....	1-13
Problem. Session values lost after a grid manager change.....	1-13
Problem. GFE: ifpImage failed on creating image for Hazards (Baseline_GFE_AC008_V2, step 46). ....	1-14
Problem. Problem with save/load draft of AFD product (Ref 18441) .....	1-14
Problem. FWS Formatter – Table values not matching time labels (Ref 18412). ....	1-14
Problem. GFE: FWS Crashes when numerical values...into GUI (Ref. OB7.2 DR 18406) .....	1-14
Problem. Duplicate and different subroutines in FWS_Overrides (Ref 18408) TT 273517. 1-14	
Problem. FWS formatter fails when single quote is entered (Ref OB7.2 DR 18405) .	1-15
<b>1.8 Volume Browser/Grid Products .....</b>	<b>1-15</b>
Problem. Sampling and contour is 1 degree off. ....	1-15
Problem. DE: Grib2Decoder fails to decode OCONUS GFS40 grids (Ref OB7.2 DR 18298) .....	1-16
Problem. Same Large NDFD MOS and HPC Guidance Products Written to Disk Twice.....	1-16
<b>1.12 AVNFPS.....</b>	<b>1-17</b>
Problem. Tweb forecasts truncated in collective product.....	1-17
Problem. AvnFPS:(OB8.1 PIT) Wind Rose occasionally displays blank screen.....	1-17
Problem. Display probabilities of categorical elements. ....	1-17
Problem. DUP Grid Monitoring fails due to unassigned variable. ....	1-17
Problem. Metar Viewer display obs ordered by site, then time. (Dup 18476).....	1-18

Problem. Fix Tweb QC bugs..... 1-18

Problem. METAR did not report dewpoint, but HWR did. .... 1-18

**1.13 Fog Monitor ..... 1-18**

Problem. Fog Monitor: Localization Failure..... 1-18

Problem. Fog Monitor not showing only N/D. .... 1-18

Problem. Use customized configuration file to override delivered file. .... 1-18

Problem. Fog Monitor config GUI crashing ..... 1-19

**1.15 NWRWAVES..... 1-19**

Problem. WCN marine zone(s) cancellation is never removed. .... 1-19

Problem. NWRWAVES: Incorrectly truncates products when cities end in LAT..... 1-19

Problem. Products getting stuck in NWR Browser. (DR 18554) ..... 1-19

Problem. NWSRFS Executables do not recognize new DST Definition (dup of  
DR 18659) ..... 1-20

**1.17 WarnGen..... 1-20**

Problem. Text workstation panic mode prevents sending warnings..... 1-20

Problem. Flood Advisory type incorrectly changed for followup. .... 1-20

Problem. Warngen templates still have KDEN in WMO heading. .... 1-21

Problem. FFW(Dam break) has incorrect H-VTEC. .... 1-21

Problem. WarnGen: Nowcasts contain a "null" first city (TT#292051) ..... 1-21

Problem. Remove TIME MOT LOC line in all templates. .... 1-21

Problem. WarnGen: can add back removed counties to a followup SVS  
(OB8.1 18956) ..... 1-22

Problem. WarnGen Flood Advisory Hydro-VTEC is incorrect. (OB8.2 DR18912) .. 1-23

Problem. CWA Warnings and Radar Imagery Dropping Out Frames..... 1-23

Problem. GW: D2D not displaying all warnings by type (Ref OB8.2 DR 18882).... 1-23

Problem. EWW warnGen template should not be installed at all sites  
(Ref DR 18288). (DR 18792) ..... 1-23

Problem. GW: D2D not displaying all warnings by type. .... 1-24

Problem. gaps in WarnGen GELTs ..... 1-24

Problem. WG: Warned for cities outside the CWA. .... 1-24

Problem. WarnGen: part of county not included in partial cancellation  
(OB8.2 18901). ..... 1-24

Problem. WarnGen: replace @@ with @@@ in WarnGen template. (DR 18431).... 1-25

Problem. WarnGen errors when switching between one cell and line of storms  
(Ref DR 18561) ..... 1-25

Problem. Warngen sometimes crashes on zone based products..... 1-26

Problem. WarnGen Full Backup template warning. .... 1-26

Problem. add key to legacy local/regional warnings list. .... 1-26

Problem. WarnGen cannot create text for short term forecast; NOW ..... 1-27

Problem. SVS created different polygon vertices; WBP. .... 1-27

Problem. Rename partial backup button. .... 1-27

Problem. Add legacy warning product to ensure all warnings display. .... 1-27

Problem. Change feature motion/location text..... 1-27

Problem. WarnGen wording error in text message. .... 1-27

Problem. WarnGen: "..." missing at the end of lines (Ref. OB7.2 DR 18292) ..... 1-28

Problem. WarnGen TOR product - "is will be" ... error (Ref. OB7.2 DR 18291)..... 1-28

Problem. Refine county toggle-on function. .... 1-28

Problem. Replace Redo Box to clarify hatching=warning ..... 1-28

Problem. No gaps along CWA boundaries. .... 1-28

Problem. Areal Flood Advisory Followup misspelled. .... 1-29

Problem. Mismatch between GUI choice and D2D display..... 1-29

Problem. Rename WarnGen Partial Backup Button (Ref OB7.2 16657)..... 1-29

Problem. RHE3 OB5-P: Selecting WarnGen Flash Flood Warning causes a  
 (frame refresh) delay (Ref OB6 DR 16028) ..... 1-29

Problem. LSRs displayed in D2D with incorrect icon. .... 1-29

Problem. LSR Display bug: No LSRs display on Local scale..... 1-30

Problem. LSRs sporadically updated in D2D..... 1-30

Problem. LSR text decoder never updated for current product format..... 1-30

Problem. Rework DR 16188: Warning QC Error dealing with counties and zones. ... 1-30

Problem. Warning QC Error dealing with counties and zones..... 1-31

Problem. Selecting WarnGen Flash Flood Warning causes a frame refresh delay. .... 1-31

Problem. The time zone given in the third bullet is wrong when a storm is crossing  
 from one time zone to another. .... 1-31

Problem. WarnGen: SVS wording for cancellation and expiration of county  
 portions incorrect. .... 1-31

Problem. WarnGen: Problems with MWS- no SMW template..... 1-32

Problem. WarnGen: COR should not be first option in list for follow-up statement VTEC  
 action. .... 1-32

Problem. WarnGen: Dime-sized hail still listed under SVR threat options..... 1-32

Problem. Localization option for warngen to use an area rather than a point is  
 broken (Ref. OB7.2.1 DR 18754, OB7.1 DR 16923)..... 1-32

Problem. WarnGen AUX\_INFO errors in Dam Break FFW template (ref OB8.1  
 DR 18611). .... 1-32

Problem. Invalid variable in SMW followup template (ref OB7.2.1 DR 18587)..... 1-33

Problem. Invalid variable in FFS template (ref OB7.2.1 DR 18584). .... 1-33

Problem. Improper wording (siren activation) in CTA (ref OB7.2.1 DR 17022) .....  
 Reference DR 16835. .... 1-33

Problem. WarnGen: Invalid variable in Flood advisory statement template  
 (OB7.2.1 DR18586)..... 1-33

Problem. Invalid variable in Flood advisory template (OB7.2.1 DR 18585)..... 1-34

Problem. A.FA followup will add mistakenly adjacent CATs (Ref OB7.2  
 DR18090) ..... 1-34

Problem. Unable to issue FLS in WarnGen (Ref. OB7.2.1 DR 18241) ..... 1-34

**1.18 Guardian ..... 1-35**

Problem. Sound files cannot be playing simultaneously (Ref. OB7.2 DR 18218) ..... 1-35

Problem. Guardian: OB8.1 Guardian Monitor button bind conflict (Ref. OB7.2.1  
 DR 18413). (DR 18822)..... 1-35

Problem. Guardian layout configuration error (Ref. OB7.2 DR 18167) ..... 1-35

Problem. Guardian Configuration GUI does not come to foreground (Ref. OB7.2 DR 18166) ..... 1-35

Problem. Guardian does not allow audio acknowledgements (Ref. OB7.2 DR 18142) ..... 1-35

Problem. Guardian does not produce a system beep (Ref. OB7.2 DR 18141)..... 1-36

Problem. Guardian does not recognize the audio duration configuration (Ref. OB7.2 DR 18140) ..... 1-36

Problem. Guardian restarts when sent an invalid priority (Ref. OB7.2 DR 18139).... 1-36

Problem. Multiple instances of Guardian running (Ref OB7.2 DR 18138) ..... 1-36

Problem. Applauncher refers to old version of HydroView/MPE (Ref. OB7.2 DR 18216) ..... 1-36

**1.19 SNOW ..... 1-36**

Problem. SNOW application is missing on TBW4 (Alaska site)..... 1-36

Problem. SNOW: Mesonet hourly precip error. (Ref. OB7.2.1 DR 18497). ..... 1-36

The hourly precip values for Mesonet stations are inaccurate, due to a units conversion error. Fix available. This is a duplicate DR of OB7.2.1 DR 18497. (DR 18633) ..... 1-36

Problem. Increase precision of Hourly Precip thresholds. .... 1-36

Problem. Use customized config file to override delivered file. .... 1-37

Problem. Table incorrectly ranking negative numbers. .... 1-37

Problem. SNOW config changes causing table to crash. .... 1-37

Problem. Hourly Precip not being displayed properly (Ref OB7.2 DR 18178)..... 1-37

Problem. SNOW-17 PRNTOPER output not correct(Ref. OB7.2 DR 17824)..... 1-37

**1.20 FFMP ..... 1-38**

Problem. FFMP: Guardian FF popup should list CWA (FFMP-32 ... (Ref. OB7.2 DR 18269) ..... 1-38

Problem. FFMP: OB8.1 Space after CWA in FFMPradarToCWA.txt file ... (Ref. OB7.2 DR 18305) ..... 1-38

Problem. tcl error when zooming out using FFMP table. .... 1-38

Problem. FFMP OB8.1: reg\_county GELT contains marine zones (OB7.2.1 18390, OB8.2 18906)..... 1-39

Problem. FFMP: Sort by FFG improper use cutoff..... 1-39

Problem. Basin Zoom Problems (Ref OB7.2 DR 16677 and DR 18399) ..... 1-39

Problem. FFMP: Basin Trace clear. .... 1-39

**1.21 SAFESEAS..... 1-40**

Problem. SAFESEAS table crash..... 1-40

Problem. OH table shrinks, shows config error. .... 1-40

Problem. Use customized configuration file to override delivered file. .... 1-40

Problem. Bad unit labels. .... 1-40

Problem. config changes causing table to crash. .... 1-40

Problem. SAFESEAS localization error blotting out configurations. .... 1-40

Problem. SAFESEAS: IWX needs a config text file update..... 1-41

Problem. Safeseas Anchor" is occasionally incorrect. .... 1-41

<b>1.22 Other .....</b>	<b>1-41</b>
Problem. Wx tool crashes GFE (Ref OB7.2 DR 17963).....	1-41
Problem. MAKE changes to accommodate GUAM time zone (Ref. 18635).....	1-42
Problem. NMAP upgrade to 5.10.2. ....	1-42
Problem. LWD enhancement request: Bundle all warning display options. ....	1-42
Problem. OB5-P: Request/reply incompatible between releases (Ref OB6 DR 16357). (DR 16361).....	1-42
Problem. DE: OFSDE/BATCHPOST not transferring data or data incorrect (Ref DR 18436). (DR 18471).....	1-43
Problem. It is not possible to print color screen prints of hmap_mpe on the Linux workstation. (DR 12685).....	1-43
Problem. DHM: dhmNotify.C needs update (Ref. OB7.2 DR 18414).....	1-43
Problem. ECMWF Hi-Res: Contour value/image mismatch.....	1-43
Problem. Cannot display ECMWF HiRes cross section. ....	1-43
Problem. DE: Incorrect units for ECMWF-HiRes display of 3hr and 6hr max/min temps. 1-43	
Problem. DE: GFS40 D-2D display for Alaska is offset down and to the left. (DR 18469) 1-43	
Problem. RFC Archive DB: System Crashes when using DatView print button. ....	1-44
Problem. Previous discussion not included in AFD. (DR 18171) .....	1-44
Problem. Remove generated files. ....	1-44
Problem. Time Of Arrival Process hangs & its relying on wwa's timezone gelt file. ...	1-45
Problem. Product Maker does not load products sometimes; D2D; volume (Ref OB7.2 DR 17596) .....	1-45
Problem. RF OB5 TSCHNG mod improperly handles validdate values. ....	1-45
Problem. RF OB5 FCINIT error in fcpts.....	1-45
Problem. Improve perf. of DMD display on volume scan change (Ref OB7.2 DR 17297) [Dup of OB7.2 17297].....	1-46
Problem. Improve performance of DMD display on volume scan change (Ref DRs 17297 & 18317).....	1-46
Problem. Guardian: move conflicts with sample text (Ref. OB7.2 DR 18279).....	1-46
Problem. Modify Install script to create directories for GOES channel. ....	1-46
Problem. Add header patterns to acquire OPC/TAFB grids (Duplicate of DR18114)	1-46
Problem. Guardian does not auto-start for new awips users (Ref OB7.2 DR 18096)	1-47
Problem. Makefile Changes for Successful Build.....	1-47
Problem. /awips/ops/data/mc/postgres.dxl apps.cron vacuum (Ref OB7.2 DR 18164).....	1-47
Problem. OHD RFC - Historical Data Browser: System Crashes when saving the Station(Ref. OB7.2 DR 18149) .....	1-47
Problem. GFE: rawRank variable bug (Ref. OB7.1 DR 18070).....	1-47
Problem. RF OB3 IFP window must be repositioned on the screen. ....	1-47
Problem. OB6 Install: Update install instructions for NMAP problem (see DR_16929) .....	1-48
Problem. ESPADP Segmentation Fault.....	1-48
Problem. RF OB5 ENS_Post_CP sometimes generates a memory fault. (DR 17853)	1-48

Problem. Remove the Product Maker application..... 1-48

Problem. Time match problem using Time Options with families..... 1-48

Problem. Profiler horizontal and vertical variance data are missing..... 1-48

Problem. Could not verify that the Alaska Profiler has processed data..... 1-48

**2.0 WARNING ADVISORY (WWA) ..... 2-1**

Problem. Side effect on WOU products by the fix of DR\_16188..... 2-1

Problem. SPCcheck: LLL-tor/svrWatch.txt not have all counties in a watch..... 2-1

Problem. The Severe Thunderstorm Warning (SVR) template has errors in it for the inclusion of the watch section. Trouble Ticket number is 255972..... 2-1

**3.0 HYDROLOGY ..... 3-1**

Problem. HydroGen OB8.1 - Test Disclaimer not on graph output..... 3-1

Problem. RiverMonitor: 'Update Now' button disappears from main GUI. .... 3-1

Problem. All Hydro Apps Help menus have version 7.2. .... 3-1

Problem. MPE Editor: The System Crashes when loading a Radar for a particular site. .... 3-1

Problem. RiverPro VTEC ETN not reset in new year if carryover. (Ref OB72 18474) (DR 18538)..... 3-2

Problem. Riverpro mishandle VTEC for Flood Advisory (Ref OB72 18325). (DR 18537) 3-2

Problem. HydroView application crash problem (Ref OB72 18301). (DR 18535) ..... 3-2

Problem. Send of RFC QPE grib product failing (Ref OB72 18202). (DR 18534)..... 3-2

Problem. Additional hydro fcst services info needed. ( DR 18687) ..... 3-2

Problem. DE: Wrong id code in GRIBDecoder file (Ref. DR 18201). (DR 18827)..... 3-2

Problem. TEST DR for evaluating OHD CM interaction (DR 18222) ..... 3-2

This is a test DR for allowing simulation/testing of the CM processes for OHD. .... 3-2

Problem. MPE Editor: Can't change the DailyQC value '0.00' on 6 hours Data Options ..... 3-2

Problem. HyDRoView Red Triangles for Temperature Data (Ref OB72 18397) ..... 3-3

Problem. Run\_SiteSpecific fails to launch GUI. .... 3-3

Problem. RiverMonitor adjustments of display and plots..... 3-3

Problem. Hydro forecast service db needs more fields..... 3-3

Problem. Need to define location-specific look forward hours for Riverpro..... 3-3

Problem. Riverpro Inserts County Instead of Parish for LA Locations..... 3-4

Problem. Hydro/VTEC OT&E: After dropping and recreating the textdb, one workstation still thought 38 was next ETN..... 3-4

Problem. HydroView QC GUI window doesn't fit characters..... 3-4

Problem. HydroGen uses incorrect crest data..... 3-4

Problem. WFOA: Problem With CPC Outlook Data..... 3-4

**4.0 LDAD ..... 4-1**

Problem. LDAD MSAS data not purged correctly. .... 4-1

Problem. New LDAD ls2 HP sed Command not Found .sh home/AAS/test scripts. .. 4-1

Problem. New LDAD cannot acquire and store RRS data..... 4-1

Problem. New LDAD can not acquire and store ROSA data.....4-1

Problem. New LDAD can not acquire and store ASOS and MicroART data.....4-1

Problem. Mesonet Analysis not correctly sorting observations. ....4-2

Problem. Disable LDAD webDissem build.....4-2

Problem. Some LDAD router processes have memory leak and consume SWAP  
space.....4-2

Problem. LDAD processes fail due to incorrect environment (Ref. OB7.2  
DR 18296) [This is an OB8.1 merge of OB7.2 DR 18296] .....4-2

**5.0 SYSTEM ..... 5-1**

**5.1 Product/Process/System Monitoring ..... 5-1**

Problem. Synoptic decoder failing once a day after OB8.1 install. ....5-1

Problem. Remove LAMP - OCONUS LAMP/LAPS/MSAS menu entry is incorrect. 5-1

Problem. Remove LAMP - remove two additional Lamp doc files. ....5-1

Problem. Remove lamp account.....5-1

Problem. GF: 2000 export\_grid processes were found on px3 and px4 during the  
failover test at TBW4. ....5-1

Problem. Request/reply incompatible between releases.....5-1

Problem. DB: TextDB Reader fails to stop. ....5-2

**5.2 Radar System..... 5-2**

Problem. RadarMsgHandler may not announce urgent radar conditions (OB8.2 DR  
19028) .....5-2

Problem. ORPGCommsMgr fails to close open files before deleting  
(OB7.2 DR 18771).....5-2

Problem. Problems displaying radar GSM graphics. ....5-2

Problem. Additional corrections for radar radial displacement (Ref OB7.2  
DR17927) .....5-3

Problem. Dial Radar tries to connect to DS.....5-3

**5.3 System Process/Log/Purging/Localization ..... 5-4**

Problem. Beta -- Cannot Send Products via SMTP, named errors. ....5-4

Problem. GFSLAMP- MOSBUFRDecoder.c Data File probably corrupted.....5-4

Problem. Files in badGFS directory are never purged.....5-4

Problem. Performance Enhancement: Move local storage of text prods (with  
NO\_STORE) to a local device.....5-4

**5.4 General..... 5-4**

Problem. Purge "-i" option not working correctly (OB7.2.1 DR 18467, OB7.2 DR  
18466). (DR 18789).....5-4

Problem. RAX shefdecode\_pro/raw DST can be affected by TZ setting (dup of 18722).  
(DR 18770).....5-5

Problem. GFSdriverContr.config not getting published. ....5-5

Problem. asyncScheduler quits after 10 days (ref DR18395) .....5-5

**5.5 Install..... 5-5**

Problem. Test mode control program (tmcp) does not work. ....5-5

Problem. Incorrect permissions on /awips/hydroapps/lx/rfc/nwsrfs  
(Ref OB8.2 DR 19095) .....5-5

Problem. POSTGRES DIR environment variable incorrect in .environs  
(Ref DR 17957) .....5-6

Problem. moveob72files.sh causing INSTALL release problems. ....5-6

Problem. masterGFEInstall script fails. ....5-6

Problem. GFE/GHG - Start time of hazard erroneously changed by software. ....5-6

**5.6 QPE/MPE..... 5-7**

Problem. RFC/MPE Editor-When editing the DailyQC the pops up window does  
not appear. ....5-7

**5.7 IFPS..... 5-7**

Problem. IFPS: (Katrina DR) Failed Site grids creation problem .....5-7

Problem. IFP Not Able to Read All SSARREG Mods (Ref OB8.2 DR 19100). ....5-7

Problem. IFPS: (Katrina) SvcBu CS can't rsync failed WFO's grids/possible NDFD  
corruption. ....5-8

Problem. IFPS: (Katrina) Failed WFO's SvcBu grids not automatically exported to  
CS .....5-8

Problem. IFPS: (Katrina DR) Failed Site grids creation problem .....5-9

Problem. ECMWF Hi-Res time series scale/units problem.....5-10

Problem. IFPS Service Backup - localMapFiles.py file deleted (ref DR 18097  
OB7.2.1) .....5-10

Problem. IFPS install fails. ....5-10

Problem. The IFPS/SVCBU not able to display the failed site grids at TBW4. ....5-10

Problem. Host vars set to dx2f instead of px3f (Ref OB7.2 DR 18286).....5-11

Problem. ifps cron restarted ifpServer during GFE install. ....5-11

Problem. Develop script to test smtp functionality at sites from NCF. (DR 18332)...5-11

Problem. installIFPS INFORMIX to postgres conversion. ....5-11

Problem. IFPS install script problem with postgres account. ....5-11

Problem. MPE Editor polygon edits not always shown (ref OB72 17886).....5-11

Problem. MPE Editor: Can't change the DailyQC value '0.00' on 6 hours Data  
Options .....5-11

Problem. AVNFPS menus are incorrect after wfoa install (Ref. OB7.2 DR 18285) ..5-12

Problem. IFP halts when a largely out-of-range value was entered. (Ref. OB7.2  
DR 18437) .....5-12

**5.8 Crons and Scripts ..... 5-12**

Problem. Beta: run\_adbinit script not running on RAX. ....5-12

Problem. Service backup attempts to do the informix/postgres conversion for  
OB7->OB8 site. ....5-12

Problem. Beta: Install overwrote CPSBN file /awips/data/acq\_wmo\_parms.sbn.  
local. ....5-12

Problem. OB8.1 Beta: Program ts2oh Aborts During Run (Ref. OB8.2 DR 19065) 5-13

Problem. OB8.1: Changes to dx1apps and mhs\_mta heartbeat scripts (dup for

18911) .....	5-13
Problem. AFC: NotifyTextProd runnin for wrong domain on PX3. ....	5-14
Problem. Remove ds1 and ds2 references from ifps install scripts. ....	5-14
Problem. whfs_crontab_*.baseline are incorrect. ....	5-14
Problem. Add legalArchiver.sh to dx1cron file (Ref. DR18751). ....	5-15
Problem. whfs_crontab_*.baseline are incorrect. ....	5-15
Problem. Reconcile OHD zero-byte file. ....	5-15
Problem. OB8.1 Build/CM system configuration files have been changed. ....	5-15
Problem. Modify AWIPS script to add alternate NWSTG host. ....	5-16
<b>5.9 Documentation.....</b>	<b>5-16</b>
Problem. OB8.1: Update documentation links. ....	5-16
Problem. Documentation Folders. ....	5-16
<b>5.10 ShefDecoder .....</b>	<b>5-16</b>
Problem. shefdecode DST affected by TZ(ref OB72ER 18661) .....	5-16
<b>5.11 AVNFPS.....</b>	<b>5-16</b>
Problem. :(OB8.1 PIT) Provide MOS/LAMP category class information. ....	5-16
Problem. :(OB8.1 PIT) Deselect auto-update feature when text fields are in focus. ....	5-17
Problem. (OB8.1 PIT) Option to print color fails. ....	5-17
Problem. (OB8.1 PIT) Build Tweb Contraction Viewer. ....	5-17
Problem. Transmit privilege should be granted on forecaster basis. ....	5-17
Problem. Update installation and staging scripts for OB8.1. ....	5-17
Problem. AvnFPS: TAFGen shall use different criteria when converting GFS/LAMP guidance into TAFs. ....	5-17
Problem. AvnFPS: Missing balloon messages for flight category indicators. ....	5-17
Problem. AvnFPS: Fix Climate button to bring up new climate tools introduced in OB7.1. ....	5-17
5-17	
<b>5.12 Other .....</b>	<b>5-18</b>
Problem. DE: Add RUC13 and SST headers to acq_categories.txt. ....	5-18
Problem. AF: Increase timeout value for service backup to complete successfully. ....	5-18
Problem. Beta Changes to HLS for compliance to NWS 10-6 01. ....	5-18
Problem. Program Batch Post not working. (Ref. OB8.2 DR 18965). ....	5-18
Problem. AF OB8.1 - CRLF issue with smtpaddr.txt file (ref OB7.2 DR 18457).....	5-19
Problem. Red Hat security patches from March 2007 scans. ....	5-19
Problem. BNCF Updates for MHS Servers. ....	5-19
Problem. GUM --> Products are set to wrong time type (Ref. OB7.2.1 DR 18306). ....	5-19
Problem. CM updates to OHD-OB8.1 workset. ....	5-20
Problem. NCEP HPC QPF - contour not displayed at NH scale. ....	5-20
Problem. Outlook Grids not displayed in sequence on D2D (Ref. 18458). (DR 18672).....	5-20
Problem. RAX DB: load_ingest can't connect to DB (ref. OB7.2 DR_18200).....	5-21
Problem. RAX ofsshef is incorrect version (Ref: OB7.2 DR_18360). (Ref 18146) ...	5-21
Problem. Comment in scour.conf is wrong (Ref 18146).....	5-21

Problem. Cutover\_mhs script fails in OB7.2..... 5-21

Problem. ESP aborting run (Ref. OB8.1 DR 18520) ..... 5-21

Problem. Problems with NWSRFS: ERRORs in REORDER. (DR 18073) ..... 5-22

Problem. IFP crashes when calculating tidal balance in... (Ref OB7.2 DR 18440)..... 5-22

Problem. Verification Apps Ignoring SHEF Qualifier Codes (Ref OB7.2  
DR 18419) ..... 5-22

Problem. Batchpost not posting all data to the fs5files (Ref. OB7.2.1 DR 18515) .... 5-22

Problem. DUMPTS command halts with a FORTRAN Error..... 5-22

Problem. Delete "satSpecificInfo.txt" from baseline. (ref. 7.2 DR-17786)..... 5-23

Problem. AWIPS Data Monitor indicating 100% CPU usage on dx2, dx4, px2 (ref  
DR18464). ..... 5-23

Problem. AX Program Not Able to Find rfc.ob7.2.jar File (Ref OB7.2.1 DR 18465) 5-23

Problem. Localization option for warngen to use an area rather than a point is broken  
(Ref. OB7.2.1 DR 18754, OB7.1 DR 16923). ..... 5-23

Problem. Beta DatView Drop Down Menus not Working (Ref. OB7.2.1  
DR 18461). ..... 5-23

Problem. SREF:acq\_categories.txt does not contain WMO header pattern (Ref DR  
18660). (DR 18689)..... 5-24

Problem. Move GOES ImagerInfo.txt from baseline to NDM. .... 5-24

Problem. Climate F6 product won't run...(Ref. OB7.1.1 DR 18095, OB7.2 DR  
18422). ..... 5-24

Problem. Service backup cleanup not removing databases (Ref. OB7.2 DR 18404).. 5-24

Problem. routerStoreNetcdf locks up (Ref. OB7.2 DR 18331) [This is an OB8.1  
merge of OB7.2 DR 18331.] ..... 5-24

Problem. RF OB6 XNAV does not display segments. .... 5-24

Problem. RF OB6 ESPADP batchbuilder scripts do not generate all graphical  
products. .... 5-25

Problem. RF OB6 PPINIT Doesn't process @Define Old Station correctly. .... 5-25

Problem. HazCollect needs to handle duplicate products in the Text DB  
(Ref DR 18714) ..... 5-25

Problem. The HazCollect software is sending improperly formatted products to the  
NWWS uplink sites. .... 5-25

Problem. RF OB6 XSETS fails with MALLOC\_CHECK\_=0. .... 5-25

**5.13 SCAN..... 5-25**

Problem. Unwarned County and warning by polygon..... 5-25

Problem. SCAN's use of a LAMP station file must change. .... 5-26

Problem. SCAN Cell Table rank: need toggle. .... 5-26

**5.14 LAMP..... 5-26**

Problem. LAMP cron must be stopped. .... 5-26

Problem. LAMP references from purging..... 5-26

Problem. LAMP CDL files no longer needed. .... 5-26

Problem. Remove LAMPsetup use from readenv.[c]sh. .... 5-27

**6.0 RELEASE OB7.2.1..... 6-1**

Problem. OB7.2.1: Localization opt. for WarnGen to use an urban area (Ref OB8.1 DR 18757, OB7.1 DR 16923) ..... 6-1

Problem. Guam HWR TZ shows as GST not as CHST ..... 6-1

Problem. OB7.2.1 NWSRFS Executables do not recognize new DST Definition ( Ref DR 18659)..... 6-1

Problem. SREF: Model does not store at OCONUS WFOs (Ref DR 18660) ..... 6-2

Problem. Bug in baseline Hazard\_WCN: Definition["purgeTime"] misspelled ..... 6-2

Problem. NWEM formatter change prevents hazCollect products from going out on the CRS ..... 6-6-2

Problem. Have HazCollect handle duplicate products in the Text DB (Ref DR 16861) ..... 6-6-2

Problem: Installation Scripts ..... 6-2

Problem. OB7.2.1:SREF:acq\_categories.txt does not contain WMO header pattern (Ref DR 18689) ..... 6-3

Problem. MAKE changes to accommodate GUAM time zone name change (DR 18635)..... 6-3

Problem. WarnGen AUX\_INFO errors in the Dam Break Flash Flood Warning template ..... 6-3

Problem. WarnGen: template name misspelled in Flood advisory statement template ..... 6-3

Problem. WarnGen: Invalid variable in SMW followup template ..... 6-3

Problem. WarnGen: Invalid variable in Flood advisory statement template ..... 6-4

Problem. WarnGen: Invalid variable in Flood advisory template ..... 6-4

Problem. WarnGen: Invalid variable in FFS template ..... 6-4

Problem. WarnGen errors when switching between one cell and line of storms (Ref DR 18072) ..... 6-4

Problem. Change CHST for Guam for HP-UX systems..... 6-5

Problem. ESP aborting run (Ref. OB8.1 DR 18640) ..... 6-5

Problem. GFE: New tropical concept of operations very confusing ..... 6-5

Problem. Batchpost not posting all data to the fs5files (Ref. OB8.1 DR 18639) ..... 6-6

Problem. Local Warning Display: Can't display new EWW product ..... 6-6

Problem. SNOW: Mesonet hourly precip error. (Ref. OB8.1 DR 18633) ..... 6-6

Problem. AvnFPS: OB7.2.1 Fixes to correct annoying changes in OB7.1 ..... 6-6

Problem. OB7.2.1 Purge "-i" option not working correctly (ref OB7.2 DR 18466) .... 6-6

Problem. OB7.2 Beta: AX Program not able to find rfc.ob7.2.jar File (Ref. OB8.1 DR 18644) ..... 6-7

Problem. OB7.2: AWIPS Data Monitor indicating 100% CPU usage on dx2, dx4, px2 ..... 6-7

Problem. OB7.2 Beta DatView Query Returns on Processed Data are Garbled ..... 6-7

Problem. OB7.2 Beta DatView dropdown menus not working (Ref. OB8.1 DR 18645) ..... 6-7

Problem. Outlook Grids not displayed in sequence on D2D ..... 6-7

Problem. OB7.2 Need to define location-specific look forward hours for RiverPro .... 6-8

Problem. GFE: Problem with save/load draft of AFD product..... 6-8

Problem. Guardian Monitor button bind conflict ..... 6-8

Problem. Hazcollect NWEM Formatter: Lockout Time .....6-8  
Problem. asyncScheduler quits after 10 days .....6-9  
Problem. Hazcollect NWEM Formatter: Issue Time .....6-9  
Problem. User password change fails over NIS from lx/xt console (See Section 1  
for more info).....6-9  
Problem. SNOW: Trend graphic Wind Chill value does not match station table.....6-9  
Problem. FFMP OB7.2: reg\_county GELT contains marine zones (Ref. OB8.1 DR  
18631) .....6-10  
Problem. GUM: OB7.1: Products set to wrong time type .....6-10  
Problem. Unable to issue FLS in WarnGen .....6-10  
Problem. Unreadable ESPADP Datacard format.....6-11  
Problem. IFPS Service Backup - localMapFiles.py file deleted upon service  
backup exit and cleanup.....6-11  
Problem. OB7.2 WarnGen: A.FA followup will add mistakenly adjacent CATs  
(Ref OB8.1 DR 18677) .....6-11  
Problem. Some types of HazCollect messages need to be saved for viewing with  
the NWR Browser.....6-12  
Problem. WarnGen: Improper wording (siren activation) in CTA.....6-12

## 1.0 D2D/TEXT/OTHER APPLICATIONS

The following Discrepancy Reports (DR) have been fixed in AWIPS OB8.1.

### 1.1 Color Curve/Blinking/Image Combination

N/A

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

N/A

### 1.3 Climate

#### **Problem. Guam: Climate product still says LST (Ref OB8.2 DR 18925).**

The Morning Climate Product includes the time stamp CHST at the header of the product once the NWWS report is created; however, toward the end of the product, next to sunrise/sunset time it still says LST instead of CHST.

#### **Problem. Climate monthly product has incorrect data.**

The Climate Monthly product that is created in the Review Climate Product GUI under NWWS report contains incorrect numbers in the data such as Temperature record low observed value of 11762554; Precipitation record max date 1176255488. These values appear several times in several places for the stations of Richmond, Washington, Boston, and Pittsburgh.

The monthly product created in NWRWAVES GUI has no summary data for the stations mentioned above. **(DR 18696)**

#### **Problem. Investigate ways to incorporate threaded extreme temperature into Climate.**

The National Climatic Data Center (NCDC) in Asheville, North Carolina has generated a data set of daily temperature and precipitation extremes. This data set and the techniques used to generate it are described in "Accessing NOAA Daily Temperature and Precipitation."

Extremes Based On Combined/Threaded Station Records" which can be found at the following URL:

[http://www.climate-science.gov/workshop2005/posters/P-GC1.9\\_Owen.pdf](http://www.climate-science.gov/workshop2005/posters/P-GC1.9_Owen.pdf)

The AWIPS climate application stores daily extreme temperature extremes in the HMDB database. The new data set from NCDC is considered to be of considerably higher quality than the data sets currently in use at NWS WFOs. NWS seems to have strong support throughout the agency for inserting NCDC's new data set into the AWIPS Climate application.

The NCDC seems to be willing to provide the new data set to AWIPS in any form that seems useful. (DR 17027)

**Problem. Localization logic should use unchanged source entry if it cannot decode dimensions from the cdl.**

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;
```

(DR 16806)

**Problem. Interpolating for missing dew point temperature and plot missing data.**

Currently, the missing dew point temperature was computed by subtracting 50 degrees Fahrenheit from temperature. That creates spikes in dew point temperature curve when the missing occurs near surface or wherever the adjacent layers of air is not very dry, not to mention that that approach is not physically meaningful. A physical meaningful approach needs to be figured out.

Because the dew point temperature can change rapidly with height, a perfect solution may not exist for interpolation. To reveal the imperfect solution, dashed line segment will be used to connect any two data, i.e., two points in the curve, as long as one of them is interpolated. Moreover, as the datum at one endpoint of dashed line segment might be non-interpolated, a symbol, e.g., a filled circle or anything appropriate, needs to be used on that endpoint to clarify the fact.

Interpolating for missing dew point temperature and plot missing data with an open circle for Skew-T chart. (DR 16752)

**Problem. LAPS: Error message displayed when LAPS Tool GUI started.**

Previously, an error message was displayed to the user when the LAPS Tool GUI was started, which stated: "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. **(DR 15439)**

**Problem. LAPS Tool GUI cannot locate log files.**

Previously, when attempting to view log data for Surface, Wind, Humidity, Clouds, or temperature using the LAPS Tool GUI, the GUI would report that "NO log files were found". **(DR 15435)**

**Problem. LAPS Tool GUI does not work in failover mode.**

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. **(DR 15436)**

**Problem. Climate Extreme data updates (DCS 3375) (Ref. OB7.2 DR 18123).**

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

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

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

Furthermore when the day\_climate\_norm was compared to NCDC data file, the record ties in day\_climate\_norm doesn't update based on the day\_climate\_extreme data table from NCDC. **(DR 18238)**

## 1.4 Radar

**Problem. Multiple ULR products can not be requested in RPS (Ref. OB7.2 DR18333). [This is an OB8.1 merge of OB7.2 DR 18333]**

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

*How to re-produce the problem:* On D2D, open RPS editor, add ULR and click "send." Add more ULRs for different layers and click "send" again. On Radar Status Bar, it shows how many products are sent through RPS list. The number shown is not correct because RadarServer removed some ULR entries in the duplication check. You can also compare the current RPS list (/data/fxa/radar/lists/XXXX.current) to the products in the RPS editor to see which product is removed. **(DR 18372)**

**Problem. 8-bit 2.4 and 3.4 Z sometimes update with 4-bit image when 8-bit is available.**

Regardless of VCP, the 8-bit reflectivity data for the tilts in the 2.4/2.5 bin and the 3.1-3.5 bin are being replaced with 4-bit data just a few seconds after the new scan arrives. The 4-bit data then goes back to 8-bit data when the next scan comes in.

It only appears to be reflectivity and these two tilt bins. It is easily reproducible, even after we switched from 12 back into VCP21 this morning. **(DR 16312)**

**1.5 Text Alarms/Warnings**

N/A

**1.6 Satellite****Problem. No 4Sat composite imagery available on TBW4 (SBN4Channel baseline test case fail (Ref 18728)).**

There are no Satellite -> 4 Sat composite images available on TBW4. This imagery can be displayed on GSD's OB8.1 system, FSLD. Baseline test case SBN4Channel\_1.3.4.9 steps 3 and 6 fail without this data. The problem was written up as DR 17974 in OB7.1. This DR appears to be canceled. The problem was also reported in OB7.2 referencing the OB7.1 DR.

Added by Sean Webb (5/2):

Now that the data feed is directly from the ANCF, the satellite products, including the 4 Sat Composite imagery (header TICF) are being ingested on TBW4. So there must be a problem with the TNCF data feed with the satellite products, or in particular with the TICF products for Alaska 4 Sat Imagery. **(DR 18853)**

**1.7 GFE****Problem. GFE: Wrong Tabular transport wind forecast source used for FWS.**

Tabular transport wind forecasts get the forecasts from the Wind or Wind20ft grids instead of the TransWind Grid. There is a bug in the `_getWindDirSpdStr` method in `FWS_Overrides` and ASM will be sent a fix." **(DR 19037)**

**Problem. GFE: missing cwr values in FWS when PoP is used for cwrParm.**

WFOs can configure in their `FWS_???.Definition` file a definition called `cwrParm`. This tells the formatter to use the PoP grid or the CWR grid for determining the Chance of Wetting Rain (CWR) forecast in the FWS. However, WFOs that used PoP for `cwrParm` would get Missing forecasts for the CWR narrative phrase. Solution: Baseline a new `cwr_words` method in `FWS_Overrides` that uses the `cwrParm` definition. **(DR 19030)**

**Problem. GFE: FWS – Slight Chance Weather dropped in the forecast.**

From the Manual Discrepancy Form submitted by Virgil:

The Baseline FWS\_??\_Definition file does not have a hoursSchcEnds definition, so it defaults to whatever is configured in the FWF formatter. If a WFO uses the baseline setting for the FWF, then the value for this definition defaults to 24 hours. This is not desirable and has the potential to cause forecasters to “forget” to include dropped slight chance thunderstorm forecasts. (this is more critical in the west than it is in the east, but the west issues most of the FWS forecasts.) **(DR 19058)**

**Problem. GFE: non-top of the hour ignition times cause FWS to sample data incorrectly.**

When an ignition time entered by a customer is not at the top of the hour (e.g., 1030), the formatter doesn't sample forecasts for the table correctly. It is an average over two hours instead of the value for the labeled hour. It is a bug in \_determineTableTimeRange in

FWS\_Overrides. **(DR 19039)**

**Problem. Incorrect Tabular/Narrative format used for FWS.**

There is a check in the FWS formatter that ensures that there is a narrative forecast for wildfire spot requests (required by directive). The Tabular/Narrative format is changed to the Narrative Only format when it should be the Tabular Only format being changed to the

Tabular/Narrative format. The Bug is in the \_qualityControlFormData method in FWS\_Overrides. **(DR 19036)**

**Problem. GFE:Change needed for automated testing from lx (Ref: DR18124).**

The file 'makeRelease' that makes reference to 'stdGFE.tgz' has been added to the GFE-OB8.1-CM build tree. This file is required for the automated tests to work from an lx box. **(DR 19029)**

**Problem. The run Formatter is not working for a new product.**

The run Formatter is not working for a new product. **(DR 18937)**

**Problem. FWS Formatter – Number Versions of STQ Bug.**

The baseline FWS\_??\_Definition file has a definition called “STQnumberVersions”. This allows a WFO to increase the number of spot forecast requests to select from in the first GUI. However, this definition should be “stqNumberVersions”, thus when a WFO tried to increase the number of spot forecast requests, the number remained at the default. Impact on operations: Some WFOs get 15-20 spot requests a day. Sometimes it is requested to produce the forecast the next day. After 10 or more spots, these requests are no longer listed in the first GUI. **(DR 19020)**

**Problem. GFE intersite coordination fails when SMTP turned on (Ref GFE-ISC DR 18499).**

A critical problem was found when testing GFE intersite coordination (GFE manual test ic019) using SMTP. When you send grids from site 1 to site 2, the grids are not received at site 2. Intersite coordination is an integral part of GFE operations. It is critical that this problem get fixed before SMTP is turned on.

The problem occurs because the iscd daemon which sends the intersite message is run as root rather than ifps. The problem is caused by an error in a GFE install script, /GFESuite/scripts/install/installISC in the "echo \* user" line:

```
echo " user = root" >> /etc/xinetd.d/gfeisc
```

```
echo " server = /awips/adapt/GFESuite/bin/iscd" >> /etc/xinetd.d/gfeisc
```

```
echo " }" >> /etc/xinetd.d/gfeisc
```

In the "echo \* user" line, root should have been ifps. The contents are written to /etc/xinetd.d/gfeisc. This change was made in OB7.1 so all the OB7.1 sites have the incorrect gfeisc file. The OB7.2 installation script creates the gfeisc file if it does not exist and doesn't change it if it does exist so the problem needs to be corrected in OB7.2 also.

The script that performs the intersite coordination for GFE is /awips/adapt/GFESuite/bin/iscd. The iscd script creates a log file, /data/logs/adapt/ifps//iscd\_dx1-. If iscd is run as root, the file will be owned by root. The log should be deleted so that when iscd runs as ifps, it can write to its log.

Another problem was found while testing using the corrected gfeisc file. The iscd script sets several environment variables internally. One of these environment variables, CO\_MQR\_SERVER\_HOST is currently hardcoded to "ds". It should be "mhs". Before SMTP is turned on, mhs points to ds1-. After SMTP is turned on, mhs points to dx1-. **(DR 18918)**

**Problem. Bug in baseline Hazard\_WCN: Definition["purgeTime"] misspelled (Ref 18728)**

There is a spelling error in the baseline Hazard\_WCN. Definition["purgeTime"] = 12 is misspelled as "purgeTme". This was causing us to have a product exp time (segment) of 8 hours for a 12 hour watch (some reason defaulted to 8 hours which is used in some other products). And yes, SPC does issue watches longer than 8 hours. Anyway, I overrode it locally (Hazard\_WCN\_Local) since the Weather Channel apparently still keys on this coding instead of the VTEC coding. **(DR 18841)**

**Problem. GFE: Conversion to metric wind speed values in the FWS (Ref 18410)**

The transport wind speed can also be expressed in metric values in the tabular section generated by the FWS formatter. There is a bug in the formatter where the speed remains in MPH. **(DR 18838)**

**Problem. Problem with save/load draft of AFD product (Ref 18441).**

When a FC writes a new AFD he will hit the "save draft" button. If later another FC tries to "load draft" he (usually) will get an error message "No previous draft for CARAFDCAR". If the 2nd FC brings up an AFD, the 1st FC can hit "save draft", and then the 2nd will be able to load the current draft without incident. This occurs only with the AFD. The buttons work correctly for all other products, e.g. WCN. (DR 18843)

**Problem. GFE: New tropical concept of operations very confusing (Ref 18518).**

During the 7.2 SwIT test, this DR was discovered, but was written up as 17894. That DR was cancelled and this DR better describes the real issue. During SwIT, we ran a test to simulate tropical operations with the new conops. The result was an overlap of hazards and confusion. Later it was realized that the map background for the MakeHazard tool allows the WFOs to edit the zones for which TPC alone has responsibility.

So working with Rici Yu and HGX forecaster Matt Moreland, we made changes to the MakeHazard Procedure (which reside in /tmp on nmtw) which will make the process more straightforward. These changes have been briefed to OS21.

Without this change, the WFOs will have trouble knowing what can and cannot be edited during hectic tropical events. With the changes to the process this season and the visibility of the program, this fix needs to be in place at all coastal offices NLT 1 APR 2007. (DR 18842)

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

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

In addition, there were other issues in several of the CTAs. They are:

HI 70-90: extra space between siding... and gutters. Also, change structural damage... and natural damage... to "structural damage will include" and "natural damage will include".

HI 90-110: same structural/natural damage as before and there were 2 extra spaces after "UPROOTED..."

HI 110-135: structural/natural item and there were 2 extra spaces between "ROOFS..." and "WITH"

HI 135-160: structural/natural damage issue. (DR 18840)

**Problem. GFE: MSAS SFC\_T grid problem.**

This problem occurs on TBW3 and TBDW. It does not occur on NHDA and BCQ. Both of these sites are at OB8.1. Best guess is that this is a testbed problem only and does not affect operational sites.

The GFE MSAS SFC\_T grid is not stored. The grid is missing when you populate T from MSAS. Logs show a problem. The MSAS SFC\_T grid is processed correctly on TBDW (OB7.2) and on FSLD (OB7.2). The MSASInit log shows a problem:

```
00:18:58.007 Client.C 163 EVENT: Establishing connection to server on dx4f:98000000
ver=20060505
```

```
00:18:58.019 Client.C 183 EVENT: Connection complete to server on dx4f
```

```
00:18:58.266 Init.py 518 EVENT: Destination database: BOX_GRID__MSAS_00000000_0000
```

```
00:18:58.306 Init.py 875 EVENT: Calc: T_SFC (20070205_0000, 20070205_0100)
```

```
00:18:58.447 Init.py 884 PROBLEM: Error while running method T_SFC
```

Traceback (most recent call last):

```
File "/awips/GFESuite/primary/etc/BASE/smartInit/Init.py", line 881, in __runMethod
self._ifpio.store(parm, cache['mtime'][0], cache[we][0])
```

```
File "/awips/GFESuite/primary/etc/BASE/smartInit/Init.py", line 1062, in store
newwe[newwe.getTimeRange(time[0])] = grid
```

```
File "./libs/ifpc/ifpc.py", line 16, in __setitem__
```

```
Exception: Save Grid Data Failed for: T_SFC:BOX_GRID__MSAS_00000000_0000 (Feb 05 07
00:00:00 GMT, Feb 05 07 01:00:00 GMT) Grid contains data which is NaN at coordinate: 125,0
```

```
00:18:58.460 Init.py 875 EVENT: Calc: Td_SFC (20070205_0000, 20070205_0100)
```

```
00:18:58.616 Init.py 875 EVENT: Calc: Wind_SFC (20070205_0000, 20070205_0100)
```

```
00:18:58.691 Init.py 527 EVENT: Elapsed time: 0.6 sec.
```

```
00:18:58.693 Init.py 528 EVENT: Network stats: {'getDbInventory': 1, 'getReferenceInventory':
1, 'getGridParmInfo': 8, 'getGridData': 5, 'saveGridData': 3, 'getSingletonDBName': 1,
'getTopoData': 1, 'getParmList': 5, 'getGridInventory': 8}. (DR 18605)
```

### **Problem. FWS formats Day 3-4 forecast when only Day 6-7 desired (Ref 18409)**

In the second GUI of the GFE FWS formatter, forecasters can select “Include Day 3-5 Extended?” and/or “Include Day 6-7 Extended?”. The bug appears when “Include Day 3-5 Extended?” is not selected and “Include Day 6-7 Extended?” is selected. Instead of the FWS formatter formatting the Day 6-7 forecast, it formats instead the Day 3-4 forecast. (DR 18837)

### **Problem. GFE: time zone problem with FWS formatter (Ref 18400). (DR 18835)**

MAF is configured as having the time zone CST6CDT but part of it is in the Mountain time zone. The FWS formatter has an exception and cannot complete the process to generate the product for the Mountain time zone.

**Problem. IFPS Service Backup - localMapFiles.py file deleted (Ref. 18097). (DR 18831)**

PLEASE MAKE SURE TO PICK UP THE CODE CHANGE FROM THE ADAPT WORKSET!! (SEE DR 18577 FOR MORE INFO).

Upon exit and cleanup from IFPS service backup, the /awips/GFESuite/scvbu/etc/SITE directory gets deleted, thus deleting the localMapFiles.py file. If an office needs to reenter backup mode, the /awips/GFESuite/scvbu/etc/SITE/localMapFiles.py file will need to be re-created. The site will get shapefile errors upon startup of the backup ifpServer if they do not recreate the localMapFiles.py file.

The deletion of the localMapFiles.py file is also a problem for installations. Each install, the localMapFiles.py file needs to exist so installation does not fail.

The current way this is working is by design, but the current design causes problems. The solution should take into account the design of service backup where sites may need to back up the same site one time or another site the next. It should also account for the possibility of the ifpServer failure during backup and also take into account installation requirements. A possible design is to save off everything in etc/SITE to a special place when entering service backup, and then deleting the contents of etc/SITE followed by restoring the saved stuff when exiting service backup.

This DR should be seriously considered for OB7.2 because of the impact to the NCF during installs.

3/6 -- modified the update to copy localMapFiles.py from BASE if it is not in SITE

3/28 -- this is a duplicate of DR 18577 in this workset and is already completed.

**Problem. Unable to create GFE text products for CCF, MVF, PFM & SFT\_ALU on TBW4. (DR 18875)**

Unable to create GFE text products for CCF, MVF and SFT\_ALU on TBW4 test bed. See the error message below.

14:52:24.556 TextFormatter.py 867 EVENT: TextFormatter Starting

14:52:24.634 TextFormatter.py 868 EVENT: CmdLine: ['-h', 'dx4f', '-p', '98000000', '-t', 'MVF\_AER', '-h', 'dx4f', '-p', '98000000', '-d', 'AER\_GRID\_\_Official\_00000000\_0000', '-u', 'GFETEST', '-S', '/awips/GFESuite/Domain2/primary/data/databases/BASE/TASKOUTPUT/taskOutput\_TEXT\_1.txt', '-V', '{('Issued By', 'issuedBy'): None, ('Forecaster Number', 'forecasterNumber'): 99.0}', '-a', 'active']

14:52:24.722 Client.C 163 EVENT: Establishing connection to server on dx4f:98000000 ver=20060505

14:52:24.724 Client.C 183 EVENT: Connection complete to server on dx4f

14:52:27.176 TextFormatter.py 1035 EVENT: Arguments: {'serverOutputFile': '/awips/GFESuite/Domain2/primary/data/databases/BASE/TASKOUTPUT/taskOutput\_TEXT\_1.txt', 'experimentalMode': 0, 'databaseID': 'AER\_GRID\_\_Official\_00000000\_0000', 'timeRange': None, 'vtecActiveTable': 'active', 'cmdLineVarDict': {'(Issued By', 'issuedBy)': None, '(Forecaster Number', 'forecasterNumber)': 99.0}, 'vtecMode': None, 'serverFile': None, 'useRawTR': 0, 'site': 'AER', 'host': 'dx4f', 'testMode': 0, 'timePeriod': None, 'timeRanges': [], 'port': 98000000, 'editAreas': []}

14:52:27.329 TextFormatter.py 1154 PROBLEM: Caught Exception: Traceback (most recent call last):

File "./headline/TextFormatter.py", line 1152, in profMain

File "./headline/TextFormatter.py", line 1060, in main2

File "./headline/TextFormatter.py", line 77, in getForecast

File "./headline/TextFormatter.py", line 364, in \_\_getRunTimeVariables

File "./headline/TextFormatter.py", line 702, in getEditArea

File "./libs/pyInter/AFPSSup.py", line 2139, in getReferenceData

TypeError: IFPClient::getReferenceData()failed : Unable to find reference data [(area1,P=0,A=0)]

### **Problem. Unable to transmit any GFE hazard products at TBW4. (Ref 18874)**

Unable to transmit any GFE hazard products on TBW4 test bed. See below the errors message for the log file.

FZAK71 PAFC 021502

MWSAER

MARINE WEATHER STATEMENT

NATIONAL WEATHER SERVICE ANCHORAGE AK

702 AM AKDT MON APR 2 2007

PKZ120-130-132-022315-

/X.NEW.PAFC.MA.S.0002.070402T1502Z-070404T1000Z/

CAPE SUCKLING TO GORE POINT-

BARREN ISLANDS AND KAMISHAK BAY WATERS-GORE POINT TO SITKINAK-

702 AM AKDT MON APR 2 2007

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS MESSAGE.

TEST...TEST...TEST...TEST

\$\$

15:02:42.929 ProductEditor.py 856 PROBLEM: Transmit failed

Could not open /awips/GFESuite/data/logfiles/display/localhost:0.0/20070402/handleOUP.log for verbose information

LogDir:/awips/GFESuite/data/logfiles/display/localhost:0.0/20070402/handleOUP.log

No duplicate found in the database

Product stored successfully

/awips/ops/bin/msg\_send: error while loading shared libraries: libcoDDM\_DAL.so: cannot open shared object file: No such file or directory

Warning: some problems were encountered while sending the product.

Check the log for details.

/awips/ops/bin/msg\_send: error while loading shared libraries: libcoDDM\_DAL.so: cannot open shared object file: No such file or directory

Warning: some problems were encountered while sending the product.

Check the log for details.

Unknown service: afoscommsrv

Error: Failed to send message to DEFAULTNCF.

Error: Failed to send message to NWWSUP.

Error: Message failed to be sent to AFOS.

Error: WAN dissemination failed -- product not archived.

15:02:44.165 ProductEditor.py 984 PROBLEM: Transmit failed

15:02:47.048 ProductWorkstation.py 340 USE: Tab Close: Hazard\_MWS (Marine Weather Statement)

15:02:59.698 GfeMainMenu.py 1093 USE: GFE->Exit GFE

15:02:59.702 GfeMainMenu.py 1116 EVENT: Shutting down GFE

**Problem. The GFE grids are not available on TBW4.**

The GFE grids is not available on TBW4 test bed since 3/8/2007. As a result we not able to continue SIT on TBW4 for GFE and others applications until this issue is resolved. See the attached ifpStats output file for more detail info. **(DR 18828)**

**Problem. GFE Automation test failed for testAllowedHazardNPW\_2 test case.**

GFE Automation test failed for testAllowedHazardNPW\_2 test case. See below the error message from the output file:

testAllowedHazardNPW\_2 (Elapsed time:41.27 minutes)

Set up hazards in different zones to test NPW hazards.

HW.W, WI.Y, LW.Y, HW.A, SM.Y, ZF.Y, AF.Y, HZ.A, HZ.W, AS.Y

StringCHECK: WWUS72 KTBW 160500 0

StringCHECK: NPWTBW 19

StringCHECK: URGENT - WEATHER MESSAGE 7

StringCHECK: NATIONAL WEATHER SERVICE TAMPA BAY RUSKIN FL 25

StringCHECK: 1200 AM EST SAT JAN 16 2010 45

StringCHECK: ...|\*OVERVIEW HEADLINE (MUST EDIT)\*|... 28

StringCHECK: .|\*OVERVIEW (MUST EDIT)\*|. 39

StringCHECK: FLZ060-161300- -1

STRING SEARCH FAILED: testAllowedHazardNPW\_2 Cannot find: 'FLZ060-161300-'  
Product Result

TESTING COMPLETE 66.43 minutes

1009 SCRIPTS RUN

1008 TESTS PASSED

1 TESTS FAILED **(DR 18826)**

**Problem. Two auto tests fail (testCCF\_1 and testCCF\_3) (Ref 18268)**

Two of the GFE automated tests failed: testCCF\_1 and testCCF\_3. The auto tests all passed in our initial testing of OB7.2.

The following info is from the logs:

StringCHECK: CCFTBW 19

StringCHECK: AREA1 OT 070/043 073/045 075 99555 0102/0406/0103 -1

STRING SEARCH FAILED: testCCF\_1 Cannot find: 'AREA1 OT 070/043 073/045  
075 99555 0102/0406/0103' Product Result

FPUS42 KTBW 011210

CCFTBW

StringCHECK: CCFTBW 19

StringCHECK: AREA1 OT 070/043 073/045 075 99555 0102/0406/0103 -1

STRING SEARCH FAILED: testCCF\_3 Cannot find: 'AREA1 OT 070/043 073/045  
075 99555 0102/0406/0103' Product Result

FPUS42 KTBW 011210

CCFTBW. **(DR 18530)**

**Problem. FWS text product failed during SIT at TBW4 test bed.(Ref 18283)**

FWS text product failed during system integration test at TBW4 test bed (see Baseline\_GFE\_AC010 test case step# 6). See the following for more details.

20:15:18.370 TextFormatter.py 1154 PROBLEM: Caught Exception: Traceback (most recent call last):

File "./headline/TextFormatter.py", line 1152, in profMain

File "./headline/TextFormatter.py", line 1060, in main2

File "./headline/TextFormatter.py", line 143, in getForecast

Exception: Traceback (most recent call last):

File "./headline/TextFormatter.py", line 140, in getForecast

File "FWS\_Overrides", line 1277, in generateForecast

File "FWS\_Overrides", line 1777, in \_preProcessProduct

File "FWS\_Overrides", line 1445, in \_makeFcstTimeStatement

File "/usr/local-e4/python-2.4.2/lib/python2.4/\_strptime.py", line 293, in strptime

ValueError: time data did not match format: data=1300 1/1/01 Ame fnt=%H%M %m/%d/%y  
%Z. **(DR 18529)**

**Problem. Session values lost after a grid manager change.**

Session values are the various wx types, hazards, and other values chosen during the current GFE session. These are normally maintained throughout the session so the user can easily reuse them if needed.

In 8.1, whenever a change was made to the grid manager (for example, changing the view between vertical and horizontal or changing the wx element group), these session values were wiped out. **(DR 18432)**

**Problem. GFE: ifpImage failed on creating image for Hazards (Baseline\_GFE\_AC008\_V2, step 46).**

The imageTest3 script has an error. The baseline test runs 4 scripts to produce images from the GFE published grids. These images are used on a site's website so they have a picture of the grids for the public. The scripts run by the baseline tests are for testing purposes only. Sites create their own scripts to create their images for the web (they're customized for exactly how the site wants the image to look). (DR 18209)

**Problem. Problem with save/load draft of AFD product (Ref 18441)**

After writing a new AFD, an FC hits the "save draft" button. If another FC tries to "load draft" later, the FC (usually) will get this error message: "No previous draft for CARAFDCAR." If the second FC brings up an AFD, the first FC can hit "save draft," and then the second FC will be able to load the current draft without incident. This occurs only with the AFD. The buttons work correctly for all other products, e.g., WCN. (DR 1832)

**Problem. FWS Formatter – Table values not matching time labels (Ref 18412).**

In the FWS\_ccc\_Definition file, a WFO can configure tableStartTimeMode to "current".

However, when a WFO does this, data put into the table doesn't match what is in the grids for particular times.

Cause: There is a methodology problem in the \_determineTableTimeRange subroutine that determines the sampling time range for each column in the table. Example time range:

(Dec 14 06 20:04:00 GMT, Dec 14 06 21:04:00 GMT)

This time range samples data from the 20Z grid AND the 21Z grid, causing the table to use either the maximum value or the average value of the two. Based on the table label, only the 20Z grid should be sampled. (DR 18839)

**Problem. GFE: FWS Crashes when numerical values...into GUI (Ref. OB7.2 DR 18406)**

If a numerical value is entered into the following fields in the second GUI of the FWS formatter....

Name of Agency

Name of Agency Contact

Then the formatter crashes. This was fixed. (DR 18503)

**Problem. Duplicate and different subroutines in FWS\_Overrides (Ref 18408) TT 273517.**

There are two \_preProcessProduct subroutines in FWS\_Overrides. The second one is the good one. The first one will cause the agency name to be missing in the final FWS product. The first one must be eliminated in case a WFO wants to override the \_preProcessProduct subroutine. If they override the wrong one, then the agency name will not be formatted in the product.

There are two `_makeDiscussion` subroutines in `FWS_Overrides`. The first one is the good one and the second one is bad. Of course, it is the second one that is used by the formatter. This breaks a new feature with the formatter that provides a first-guess discussion from the latest FWF product. **(DR 18836)**

**Problem. FWS formatter fails when single quote is entered (Ref OB7.2 DR 18405)**

If a single quote is entered into the following fields in the second GUI of the FWS formatter....

- Name of Agency
- Name of Fire
- Name of Agency Contact
- Fire Size
- Fire Latitude
- Fire Longitude
- Time of Fire
- Date of Fire

Then the formatter crashes. **(DR 18801)**

### **1.8 Volume Browser/Grid Products**

**Problem. Sampling and contour is 1 degree off.**

MAF reported the sampling and the contour map is different. It could reproduced with GFS40 850 MB Temperature display.

Procedure to reproduce the problem:

1. start d2d
2. Click Volume->Browser
3. Select Grid->GFS40 at the Source panel
4. Select Basic->Temperature from the Fields panel
5. Select Pres->850mb from the Planes panel
6. Hold right click on "GFS40 850MB Temperature (C)", select "loadGFS40 850MB Temperature (C) + GFS40 850MB Temperature img(C)"
7. Zoom in to the Texas area
8. turn on the sampling
9. The temperature of sampling and temperature of the contour line is different. **(DR 19060)**

**Problem. DE: Grib2Decoder fails to decode OCONUS GFS40 grids (Ref OB7.2 DR 18298)**

When the GFS40 grids were activated for Alaska, it was discovered that the AWIPS Grib2Decoder could not decode them. Jay Smith at site AFG determined that the grib2Grids.txt configuration file is missing the line to handle Grid 160 grids, of which type these GFS40 grids are. As a workaround, the AK sites added the following line to grib2Grids.txt:

```
A160|160|180|156|19.132|174.163|47.500|47.500|National - Alaska 47.5 km
```

It was also found that grib2Grids.txt is lacking the grid information for the Pacific Region and Puerto Rico, whose GFS40 grid activation dates are 12/5/2006 and 12/12/2006, respectively. These are defined on Grid 254 and Grid 161, respectively. **(DR 18359)**

**Problem. Same Large NDFD MOS and HPC Guidance Products Written to Disk Twice**

The same NDFD MOS guidance and HPC guidance products are being acquired twice in rapid succession by the acq\_server process as exemplified by the following excerpt from the dx3 acq\_server log at site SLC:

```
acqserver 14627 13:50:45.558 EVENT: NCF_ENTRY: LAUE06 KWBN 161200
Cat: GRID 541243 #1594375
acqserver 14627 13:50:45.558 EVENT: NCF_STORE: LAUE06 KWBN stored in
/data/fxa/Grid/SBN/rawGrib2/LAUE06KWBN.20061016_125045.243
acqserver 14627 13:50:45.558 EVENT: NCF_STORE: LAUE06 KWBN stored in
/data/fxa/Grid/SBN/rawGrib2/LAUE06KWBN.20061016_125045.243
acqserver 14627 13:50:45.571 PROBLEM: NCF_FAIL link failed 3: /data/fxa/tmp/grid
/LAUE06KWBN.20061016_125045.243
/data/fxa/Grid/SBN/rawGrib2/LAUE06KWBN.20061016_
125045.243 File exists
```

These products are handled by the Gridb2Decoder process and are stored in both

```
data/fxa/Grid/SBN/netCDF/NDFD/MOSGuide and
/data/fxa/Grid/SBN/netCDF/NDFD/HPCGuide
```

The problem here is that these are large products (each MOSGuide product averages about 235,000 bytes and HPCGuide 50,000 bytes) and they are being unnecessarily written twice to the NFS mounted directory /data/fxa/tmp/grid about 1100 times per day. This has a negative impact on performance.

This affects all OB7.1 sites. **(DR 18117)**

## 1.12 AVNFPS

### **Problem. Tweb forecasts truncated in collective product.**

Tweb product disseminated by WFO are being truncated by the Message Handling System on AWIPS and further shortened by the 'collectivization' software at the NWS Telecommunications Gateway and being disseminated.

Example:

Original text

FRUS45 KBYZ 101300

TWB328

328 TWEB 101402 KBIL-KLVM-KBZN-KBTM. ALL HGTS MSL EXC CIGS. MTS  
OCNLLY OBSCD. P6SM FEW-SCT150...18Z P6SM SCT-BKN150 WDLY SCT SFC  
WND VRB25G40KT -TSRA CIGS BKN040CB.

Resulting TWEB under collective identifier WMO ID FRUS31...

FRUS31 K328 101325 RRF

328 TWEB 101402 KBIL-KLVM-KBZN-KBTM. ALL HGTS MSL EXC CIGS. MTS  
OCNLLY OBSCD. P6SM FEW-SCT150...

This critical defect requires that the aviation forecaster either reissues the product using different software or avoid using AvnFPS for issuing TWEBs.

Tweb product disseminated by WFO are being truncated by MHS on AWIPS and further shortened by the 'collectivization' software at the NWS Telecommunications Gateway and being disseminated. **(DR 19038)**

### **Problem. AvnFPS:(OB8.1 PIT) Wind Rose occasionally displays blank screen.**

When KBUR selected, December 12th, 15Z for 1 hour span and LIFR conditions result in a blank screen. **(DR 18365)**

### **Problem. Display probabilities of categorical elements.**

Additional information in the GFSLAMP BUFR message should be displayed to forecasters. **(DR 18328)**

### **Problem. DUP Grid Monitoring fails due to unassigned variable.**

When mousing over the AvnWatch Grid Monitoring section, a balloon appears indicating an internal error and to director the user to check the log file. **(DR 18276)**

**Problem. Metar Viewer display obs ordered by site, then time. (Dup 18476)**

Since deployment, users have found several undocumented changes to established behavior (prior to 3.2). These changes are unjustified.

Viewing All Metars results in ordering all metars according to time. It should be grouped by site, then time. **(DR 18478)**

**Problem. Fix Tweb QC bugs.**

Current Tweb QC requires a visibility group before weather containing TS. This is not necessary. **(DR 18153)**

**Problem. METAR did not report dewpoint, but HWR did.**

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. **(DR 17043)**

**1.13 Fog Monitor****Problem. Fog Monitor: Localization Failure.**

The Fog Monitor's "fogmon" localization step is failing to create the /data/fxa/workFiles/fog\_monitor/fm\_configure.dat file from scratch, which leads to subsequent "fogmon" localization failures. Usually, the file does not have to be created from scratch, as it exists from previous builds, but this cannot be taken for granted. Without the proper localization files, the Fog Monitor will not run. The Fog Monitor localization fails when creating files from scratch. **(DR 18681)**

**Problem. Fog Monitor not showing only N/D.**

The Fog Monitor on TBW3 only showed N/D. No fog was displayed. No obvious Problems are in the FMprocessor log. **(DR 18606)**

**Problem. Use customized configuration file to override delivered file.**

WFOs wishing to modify the Fog Monitor's coverage area permanently can do so through localization, by customizing the /data/fxa/nationalData/allAdjacentWFOs.txt file. This file can also be used for permanent area configuration changes. The file is installed, though, so it is subject to overwriting in a subsequent build. A better solution is to have localization look for the file in /data/fxa/customfiles/ first. That way, the customizations are safe, and the installed version is preserved. This DR has been primed from parallel SNOW DR 18383. SAFESEAS also has an equivalent DR -- 18384. **(DR 18385)**

**Problem. Fog Monitor config GUI crashing.**

Changes in the zoneCountyList.dat file format (brought about by DCS3259) caused this Monitoring Area config GUI to wipe the file out, because it was counting off a hardcoded number of columns to parse the file. This approach was replaced with robust indexing. TO TEST: From the App Launcher, load the Fog Monitoring Area Configuration GUI. Use the Add/Remove buttons on the left hand side to add and remove a couple of zones/counties. Hit OK and Update, then exit. Load the Fog table from the D-2D Obs menu. The Fog table should appear successfully, and your changes should be reflected in the zone/county lineup.

Fog Monitor's Monitoring Area Configuration GUI is crashing, due to changes made to SAFESEAS localization readers which also affect this application. **(DR 18376)**

**1.15 NWRWAVES****Problem. WCN marine zone(s) cancellation is never removed.**

If a WCN issued contained two cancellation segments – one for mainland zones and one for marine zones – the marine zone(s) cancellation is never removed from the remaining active watch (Dan Gregoria, MFL). **(DR 18898)**

**Problem. NWRWAVES: Incorrectly truncates products when cities end in LAT...**

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.

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 following example:

```
* 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. (DR 18047)

**Problem. Products getting stuck in NWR Browser. (DR 18554)**

Several sites complained products stuck in \$FXA\_DATA/workFiles/nwr/pending directory. NWR has a few design bugs that might contribute to this problem:

1. The \$FXA\_DATA/workFiles/nwr/trouble directory never get purged. If a product failed in the header format checking, this will fail copying the trouble product into this directory if the same product name exists in this directory.

2. If a product failed the product header format checking, the product should be moved from the pending directory into the trouble directory. Currently, NWR just copies the failed header checking product into the trouble directory instead of moving away from the pending directory. Leaving the product stuck in the pending directory. This will cause NWR to generate ".old.1" file extension file if a product with same product name but different product content comes in later on.
3. When an incoming product matches a product in the pending list, the old product is renamed to ".old" file. The incoming product is not put into the pending list queue. This results in missing incoming product sending over to CRS.
4. If a product failed to ftp over to CRS after three tries, the product is deemed not transferable and does not get moved away from the pending directory and get stuck in the pending queue.
5. NWR process has been migrated from DS into DX1 starting release OB7.1. The transferNWR log still shows "Check logStreamExpect log on DS for information about transfer". It should say "DX1" instead of "DS"

**Workaround.** The site can manually force it through using the GUI.

**Problem. NWSRFS Executables do not recognize new DST Definition (dup of DR 18659)**

**Note:** This is a duplicate/merge DR to incorporate the functionality addressed in OB7.2 DR 18659 into OB8.1... (DR 18669).

A number of the executables within NWSRFS do not properly recognize the new Daylight Saving Time definition. This will lead to the incorrect local time stamps on product headers and potentially incorrect conversions to and from local time.

### 1.17 WarnGen

**Problem. Text workstation panic mode prevents sending warnings.**

While issuing a product using WarnGen on LX3 (SVS-severe wx statement) Greg experienced the following problem. Once he goes to the text workstation to click send in the edit pop-up GUI, a dialogue box appears saying "panic mode - the workstation mode has unexpectedly changed to send or save procedures, exit and change modes." Greg says he tried to change modes but it does not allow him to. **(DR 19105)**

**Problem. Flood Advisory type incorrectly changed for followup.**

If an areal flood advisory is created with Small stream selected as the type, then that small stream option will NOT be selected when doing a followup. This results in the followup statement only stating generic flood advisory which is a mismatch to the original advisory. The option cannot be altered (by design) for the followup statements, so there is no workaround. If other options are chosen, urban and ss, arroyo and ss or hydrologic, the followup works correctly. This only impacts a ss flood advisory. **(DR 19050)**

**Problem. WarnGen templates still have KDEN in WMO heading.**

Some WarnGen templates still have KDEN instead of \$\$wmoValue! in the WMO heading line.

This can cause warnings with incorrect WMO headings to be generated. Workaround is to manually fix the templates. **(DR 18967)**

**Problem. FFW(Dam break) has incorrect H-VTEC.**

When "non-convective FFW (Dam Break)" product is selected and "floodgate opening" is selected as the primary cause the H-VTEC begins with 00000.U.DM, it should be 00000.U.DR. **(DR 18934)**

**Problem. WarnGen: Nowcasts contain a "null" first city (TT#292051)**

BYZ found that the first city in the list is always "null." when they try and create a nowcast with WarnGen. The following is an example provided in the trouble ticket:

```
-----
MTZ032-033-037-110400-
CUSTER MT-FALLON MT-CARTER MT-
INCLUDING THE CITIES OF...NULL...BAKER...EKALAKA...
ALZADA AND RIDGEWAY
906 PM MDT THU MAY 10 2007
AREAS AFFECTED INCLUDE...NULL...BAKER AND EKALAKA.
NULL should be "MILES CITY"
```

Note:

- 1) wwa\_now.preWWW is not in PVCS
- 2) wwa\_now.preWWW does not reside in /data/fxa/nationalData, but in /data/fxa/customFiles
- 3) The conclusion in statement, "NULL should be "MILES CITY"", in the TT might not be correct. The problem is that NULL is inserted before other cities (see attached two screen shots).

The problem would cause the forecasters to spend extra time to remove the NULLs, which would reduce a forecast's leading time. **(DR 19023)**

**Problem. Remove TIME MOT LOC line in all templates.**

WarnGen was to include the TIME MOT LOC line at the end of all WarnGen products. However, NWS customers have not received the required advance notice of this product format

change. Therefore, the TIME MOT LOC line needs to be removed in OB8.1. The TIME MOT LOC will be included in a future AWIPS release when the customer notification issue is resolved. To remove the TIME MOT LOC line, the tag in all WarnGen templates needs to be changed to . All 17 WarnGen templates are affected:

wwa\_dam\_break.preWWA  
wwa\_ffw.preWWA  
wwa\_ffw\_svr.preWWA  
wwa\_fflood\_sta\_county.preWWA  
wwa\_fflood\_sta.preWWA  
wwa\_flood\_adv.preWWA  
wwa\_flood\_adv\_sta.preWWA  
wwa\_flood\_sta.preWWA  
wwa\_flood\_wrn.preWWA  
wwa\_mar\_wx\_sta.preWWA  
wwa\_mws\_nosmw.preWWA  
wwa\_specmarine.preWWA  
wwa\_svr.preWWA  
wwa\_svrwx\_sta\_county.preWWA  
wwa\_tor.preWWA  
wwa\_eww.preWWA  
wwa\_eww\_svs.preWWA. (DR 18951)

**Problem. WarnGen: can add back removed counties to a followup SVS (OB8.1 18956)**

WarnGen allows you to ADD counties back into the warning follow-up SVS after they have been removed in the previous SVS.

Steps to replicate the problem (copied from the TT):

1. Issue a warning for multiple counties.
2. Issue an SVS and remove one county from the warning.
3. Now without touching any other button select the redraw from "track" button. This results in the original warning polygon being displayed.

4. Issue an SVS.
5. The county that was removed from the warning is now placed back into the warning.

Operation impact: delay the issuance of SVS warning. **(DR 18946)**

**Problem. WarnGen Flood Advisory Hydro-VTEC is incorrect. (OB8.2 DR18912)**

In the Areal Flood Advisory products the Hydro-VTEC begins with /00000.0.ER., it should begin with /00000.N.ER for both areal and point based flood advisories.

As mentioned by Timothy Helble: "The idea was to use the letter indicating 'no flooding,' which is 'N,' since the products are for high water events that don't warrant a full-blown flood warning." **(DR 18885)**

**Problem. CWA Warnings and Radar Imagery Dropping Out Frames.**

The display of radar overlaid with local warnings is different now in Beta 6 release. The behavior is any radar product overlaid with Local CWA warnings the frame will drop out. The local warnings update much more quickly. This simply will not be acceptable. It did not happen in previous beta releases as it nullifies the use of local warning plots

**(DR 19082)**

**Problem. GW: D2D not displaying all warnings by type (Ref OB8.2 DR 18882)**

The newer functionality described in DR 18428 added back the legacy functionality off a catch-all in addition to the separate warning displays. What I have found is that all warnings posted outside the CWA are not displayed in the separate warning displays, but the legacy display does. This DR is similar to DR 18777. -CWL 30-MAR-2007

In 18777, Joe Wakefield has provided a fix that resolves this problem for FLS products. It was also discovered that this problem exists for other warnings. Joe has a detailed fix for the FLS products problem resolved in DR 18777. I have attached those details as well as screen captures. -CWL 03-APR-2007

After further testing it appears that the only other product that has an issue are TORs and their follow-ups. -CWL 04-APR-2007. **(DR 18855)**

**Problem. EWW warnGen template should not be installed at all sites (Ref DR 18288). (DR 18792)**

In OB7.2, the Extreme Wind Warning (EWW) is only going to be issued at a select number of sites. Therefore, the template file should only be installed at those sites, so that the other sites do not accidentally start issuing that type of product. The sites that should get the template file are ABQ, AKQ, ALY, AMA, BMX, BOX, BRO, CAE, CAR, CHS, CRP, EPZ, EWX, FFC, FWD, GSP, GYX, HGX, HUN, ILM, JAN, JAX, KEY, LCH, LIX, LUB, LWX, LZK, MAF, MEG,

MFL, MHX, MLB, MOB, MRX, OHX, OKX, OUN, PHI, RAH, RNK, SJT, SJU, SHV, TAE, TBW, and TSA.

**Problem. GW: D2D not displaying all warnings by type.**

I have observed both today and yesterday that D2D is not displaying all the warnings by type as described in DCS 3406. The newer functionality described in DR 18428 added back the legacy functionality off a catch-all in addition to the separate warning displays. What I have found is that sometimes, the separate warning displays do not display warnings, but the legacy display does.

While this may be the case for all warnings, I have only confirmed this with FLSs, but I believe it may have occurred with a TOR that I issued. I will in addition add that I have not yet, observed this inside the CWA. **(DR 18777)**

**Problem. gaps in WarnGen GELTs**

While testing a WarnGen DR, we observed a bizarre warning box generated by WarnGen (first attachment: Adams County, CO). Investigation revealed that the county GELT contains a gap (second attachment: display of Maps > WarnGen Tables > Counties). We also see a gap in a couple of zones (third attachment). At BOU, running OB7.2(.0.1, I guess), there is a similar gap in Grand County, CO.

The extra vertex shown in the snapshot can be removed manually.

We found that we can eliminate these problems on our OB8.1 test platform by running a non-optimized version of newGELTmaker. Jim Ramer has found that he can fix this by explicitly declaring a few variables in gelt\_maker.c to be doubles. **(DR 18830)**

**Problem. WG: Warned for cities outside the CWA.**

I sent out an FLS for BOX, which was only valid for Southern Washington County, RI. The product mentioned the city of Mystic, CT in OKX's CWA was included in the flood advisory. **(DR 18776)**

**Problem. WarnGen: part of county not included in partial cancellation (OB8.2 18901).**

WarnGen has the ability to delineate a county into 9 parts (NW, SW, etc.). These parts of counties help the public know which areas are under threat. Multiple warning can be valid in a county at a given time. When a partial cancellation is done (removing one or more counties and having one or more remain), the part of county is not included. It is included for the remaining counties as well as for a full cancellation. This part of county is required for all warning products as multiple warnings could be in effect and not delineating them would cause confusion for the public.

This must be in the baseline follow-up templates in OB8.1 for the implementation of storm-based warnings. **(DR 18764)**

**Problem. WarnGen: replace @@ with @@@ in WarnGen template. (DR 18431)**

@@PTPE should be replaced by @@@PTPE in

wwa\_ffw.preWWA, wwa\_ffw\_svr.preWWA, wwa\_fflood\_sta\_county.preWWA, wwa\_svr.preWWA, and wwa\_svrwx\_sta\_county.preWWA. @@PTPE will result in incorrect template creation by localization.

**Workaround:** Manually change those templates by site and to re-run localization script as follows:

```
mainScripts.csh -wwa
```

The action of change is easy with low risk.

@@PTPE should be replaced by @@@PTPE in wwa\_ffw.preWWA, wwa\_ffw\_svr.preWWA, wwa\_fflood\_sta\_county.preWWA, wwa\_svr.preWWA, and wwa\_svrwx\_sta\_county.preWWA. (OB7.1)

**Problem. WarnGen errors when switching between one cell and line of storms (Ref DR 18561)**

WarnGen can create erroneous products when the forecaster changes between one cell and line of storms. WFO PHI opened TT 264006 on SVR ETN 0269 on 9/24/06. When switching between one cell and line of storms, if the storm centroid is moved before using "one storm" or "line of storms", WarnGen creates an erroneous product. If "one storm" or "line of storms" is used before moving the centroid WarnGen works fine. A workaround could be to use "restart", but operational folks think this is not a sufficient workaround.

Details of switching from one cell to line of storms:

1. Issue an SVR for county A, single cell
2. Prepare a new SVR for a line of storms, county B:
  - a) move "drag me to storm" to county B
  - b) don't use "restart"
  - c) press "line of storms" (the old single cell polygon remains on D2D)
  - d) use "create text"
3. WarnGen creates a new SVR for county B using the county A info in bullet one, bullet four and lat/lon coordinates - but describes the line of storms locations for county B in the third bullet. The forecaster could have seen that the polygon and the line of storms track did not match up, but in the heat of battle, this is not a good situation for WarnGen to allow. Don't know if WarnGen gave a QC error at PHI, DID NOT receive an error testing this in practice mode. If you press "line of storms" before moving "drag me to storm", the box moves to the new line location and the correct SVR is created.

Details of switching from line of storms to one cell:

1. Created line of storms SVR for county A
2. Prepare a new SVR for a single cell, county B:
  - a) move "drag me to storm" to county B
  - b) don't use "restart"
  - c) press "line of storms" (the old single cell polygon remains on D2D)
  - d) use "create text"
3. WarnGen assumes you want another line of storms and attempts to drag the entire polygon which can result in a really strange polygon. Please see Mike Rega for the rest of the desc.  
**(DR 18072)**

**Problem. WarnGen sometimes crashes on zone based products.**

Previously, WarnGen would crash whenever a user issued a zone-based product, and either toggled a zone on or off or issued it with the polygon partially outside the CWA area. **(DR 18748)**

**Problem. WarnGen Full Backup template warning.**

After creating a product from WarnGen, a Template Warning appears in the Text Workstation with the following information:

"Polygon locations are suspect. Please fix this Problem so complete check of text can be performed. The template may be incorrect."

However, you can select OK and the text product contains the correct information. Then again after selecting "send product," a "Problem Detected by QC Check" window appears with the same content as the Template Warning. If "Go Ahead" is selected, the product is sent without a problem.

**This issue was not observed under Partial Backup mode. (DR 18698)**

**Problem. add key to legacy local/regional warnings list.**

As part of the Warn by Polygon work, the local/regional warnings displays were changed to multiloads to show different types of warnings in different colors. Under DR18552, this was changed to load the legacy product as a toggled-off overlay 1, thus ensuring that all appropriate frame times are populated. One of the textDepictKey entries was too restrictive, resulting in a possible case of failure to load a local-office EWW on the Local & Regional Warnings display. **(DR 18615)**

**Problem. WarnGen cannot create text for short term forecast; NOW .**

Previously, WarnGen could not create text for short-term forecast (NOW). When the create text button was pressed a message saying, "Restart WarnGen by swapping Full backup sites," was displayed in WarnGen, in the WarnGen Wish log file, and in Guardian. Even after restarting WarnGen, this issue would be replicated when text was created again for a short term forecast. (DR 18574)

**Problem. SVS created different polygon vertices; WBP.**

An SVR with WarnGen was created and a follow-up SVS was issued. The SVS polygon was made larger than the original SVR polygon without touching the hatched area. The SVR and SVS polygons should have been identical, but the new SVS polygon had extra vertices and a different shape. (DR 18566).

**Problem. Rename partial backup button.**

Under DR16657, the partial backup button in WarnGen was changed to read "Dambreak Partial." It has been decided to back out this change for now, pending a decision to remove the button entirely (DR18551). (DR 18553)

**Problem. Add legacy warning product to ensure all warnings display.**

As part of the Warn by Polygon work, the local/regional warnings displays were changed to multiloads to show different types of warnings in different colors. A problem in the initial implementation is that time matching necessarily keys on the first overlay (SVR or FFW). Depending on the mix of warnings issued, some older other-overlay products (TOR, EWW; or FLW, FFA) may not get displayed. At the UIWG discussion, this was considered a serious drawback. The proposed solution is to load the legacy product as a toggled-off overlay 1, which will ensure that all appropriate frame times are populated. (DR 18552)

**Problem. Change feature motion/location text.**

As part of the Warn by Polygon changes for OB8.1, a new line describing the warned feature motion and location was added, of form "STORM dir spd lat lon". As a result of UIWG discussions, this line is to be changed to "TIME...MOT...LOC hhmmZ nnnDEG nnKT lat lon".

(DR 18550)

**Problem. WarnGen wording error in text message.**

The line after the first bullet of the text message gets cut off at the beginning of the line when the word 'CITY' or 'CITIES' is included in the text message. This word only appears when a large city is included in the warning area box.

The second line after the first bullet will appear as either *IES OF...* or *Y OF...*

The root 'CIT' or probably 'THE CIT' is missing from the text message. (DR 18549)

**Problem. WarnGen: "... " missing at the end of lines (Ref. OB7.2 DR 18292)**

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

In addition to the specified Product types (TOR/SVR/FFW/SVS), other product types need to be checked against the problem.

**Workaround.** Type "..." at the end of those lines. **Note:** Appending "..." is easy if the number of lines is not much, but it will be time consuming if many lines are involved. The risk to appending "..." is small. **(DR 18450)**

**Problem. WarnGen TOR product - "is will be" ... error (Ref. OB7.2 DR 18291)**

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

Because of the wording problem, forecasters will need extra time to issue a tornado warning. The workaround is to correct it on text workstation by the forecasters. The action of correction is easy and no risk.

(The pathcast wording problem was identified in DR 16232. It appears that the problem has been re-introduced on OB7.2). **(DR 18449)**

**Problem. Refine county toggle-on function.**

When using button 3 to toggle counties on in WarnGen, a click inside a polygon should toggle on only the portion of the county within the polygon. A click outside the polygon will toggle on the entire county. **(DR 18542)**

**Problem. Replace Redo Box to clarify hatching=warning.**

Replaced the Redo Box button in WarnGen with two buttons and annotation like "ReDraw box based on:" Track -or- Warned/Hatched Area. Also, retitled the Show Hatching button to read "Warned Area Visible". **(DR 18541)**

**Problem. No gaps along CWA boundaries.**

In the original OB8.1 implementation, small gaps could occur if adjacent WFOs issued warnings crossing their shared CWA boundary. The WarnGen logic can be adjusted to ensure (via some overlap) that all areas will be covered by such abutting warnings. This was fixed. **(DR 18540)**

**Problem. Areal Flood Advisory Followup misspelled.**

In WarnGen, under Product type, Other, Areal Flood Advisory Followup, advisory is misspelled. **(DR 18532)**

**Problem. Mismatch between GUI choice and D2D display.**

WarnGen GUI shows line of storms as the choice but the display shows only a point storm centroid.

To replicate, choose SVR and line of storms. Then change warning type to FFW. Then change warning type back to SVR (or TOR). The display changes to single storm while GUI continues to indicate a point storm centroid. **(DR 18427)**

**Problem. Rename WarnGen Partial Backup Button (Ref OB7.2 16657).**

NWS operational policy recently changed so that WarnGen service backup should be done using the WarnGen "Full Backup" option. The WarnGen "Partial Backup" button should only be used in the rare case when a dam break (non-convective Flash Flood Warning (FFW)) occurs and the resulting flood crest moves into the adjacent CWA. There has been some confusion at the WFOs about the new policy. As a result, the current WarnGen "partial backup" button should be renamed "dam break partial backup" or something similar to clarify the policy change and correct use of the two WarnGen backup buttons. **(DR 18318)**

**Problem. RHE3 OB5-P: Selecting WarnGen Flash Flood Warning causes a (frame refresh) delay (Ref OB6 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.

9/7/2006 -Chris Marshall

This DR is still valid in OB7.1 and OB7.2. The delay occurs when the user switches from Flash Flood Warning to another hazard (i.e. TOR or SVR) in the WarnGen GUI. The delay also occurs when the user switches to the Flash Flood Warning option from any other hazard. The average delay is about 10 seconds. During this time, CPU for X runs at 99.9% and the user cannot do anything in the D2D. Once the delay subsides, the D2D and the CPU return to normal. **(DR 16100)**

**Problem. LSRs displayed in D2D with incorrect icon.**

Seven LSRs were issued and was observed on the display in D2D. After the first LSR was sent, nothing was displayed in D2D. After the second LSR was sent, it was observed that the first LSR was displayed, but it had the wrong icon. The second LSR was also not displayed.

There are two issues:

1. The latest DR does not display
2. The LSRs are shown with the wrong icons

-CWL 09-APR-2007

Also documented in DR 18915 (TT 288574) which was canceled as a duplicate of this DR.

Relevant text below:

*Testing find out the root cause: LSR GUI saved the wrong event type value inside netCDF file. The saved values appear to be 1+eventType. However, D2D files are consistent.*

**(DR 18895)**

**Problem. LSR Display bug: No LSRs display on Local scale.**

LSRs cannot be displayed under the NCEP/Hydro menu under Local. The menu shows no inventory even when LSRs are available. But entries do appear from the Regional option. **(DR 18784)**

**Problem. LSRs sporadically updated in D2D.**

It was found that when an LSR was created it may or may not update in D2D when the local storm report graphic was loaded. When an LSR was created, sometimes it would load on one D2D and not another. Something like the above happened nearly every time an LSR was created. **(DR 18595)**

**Problem. LSR text decoder never updated for current product format.**

There has been a protracted discussion in awipsinfo about a failure to display LSR data on D2D. Investigation shows that depict/LsrPlotDepict.C has not been updated to reflect the LSR text format change implemented in Dec. 2003. This affects the Local and Region plots on the menu; the Office product, which reads from the LSR netCDF created when reports are entered using the LSR GUI, works fine.

Lacking these displays, forecasters can see their own reports plotted, but not those from surrounding offices. **(DR 16490)**

**Problem. Rework DR 16188: Warning QC Error dealing with counties and zones.**

The solution for DR 16188 causes UGC to not display in the local warning depictable. This was partially fixed in DR 18634, but a better solution is needed.

See DR 16188, 18634, and 18631, for more information. **(DR 18785)**

**Problem. Warning QC Error dealing with counties and zones.**

The SST has received several reports from sites concerning a certain Warning QC Error message, although in the most recent example, it is with a Special Marine Warning (SMW). We have reports that it can occur with all types of short-fuse warning messages. We have checked their templates and their configuration files and everything appears OK. The error message is:

```
'LONG ISLAND SOUND EAST OF NEW HAVEN CT/PORT JEFFERSON NY'  
  for ANZ330 not found. 'MORICHES INLET NY TO MONTAUK POINT NY  
  OUT TO 20 NM' for ANZ350 not found. 'FIRE ISLAND INLET NY TO  
  MORICHES INLET NY OUT TO 20 NM' for ANZ353 not found. 3 UGC's  
  while 0 counties/zones listed. Real description count does not match UGC count.  
  Do you really want to Save or Send?
```

**(DR 16188)****Problem. Selecting WarnGen Flash Flood Warning causes a frame refresh delay.**

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. **(DR 16028)**

**Problem. The time zone given in the third bullet is wrong when a storm is crossing from one time zone to another.**

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 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 that cross a time zone, there is no dual referencing in the third bullet. **(DR 16515)**

**Problem. WarnGen: SVS wording for cancellation and expiration of county portions incorrect.**

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 –

```
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."
```

**(DR 17222)**

**Problem. WarnGen: Problems with MWS- no SMW template.**

When any of "Doppler Radar Indicated", "Doppler radar indicated a line" or "Boaters reported" options are chosen from the basis section, the MWS is 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. (DR 17874)

**Problem. WarnGen: COR should not be first option in list for follow-up statement VTEC action.**

When using the right click option on a county to select a warning for follow-up, 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. (DR 17873)

**Problem. WarnGen: Dime-sized hail still listed under SVR threat options.**

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. (DR 17872)

**Problem. Localization option for warngen to use an area rather than a point is broken (Ref. OB7.2.1 DR 18754, OB7.1 DR 16923)**

The capability stated in the title and implemented in DR 16923 was not carried to OB7.2 from OB7.1.

Operation impact: More time will be needed to prepare warning products.

**Workaround.** The user has to type the areas of cities in text window. (DR 17872)

**Problem. WarnGen AUX\_INFO errors in Dam Break FFW template (ref OB8.1 DR 18611).**

In the AUX\_INFO section of the Dam Break Flash Flood Warning template (wwa\_dam\_break.preWWA), the wwa\_type (WWA product type) should be 2 for warning instead of 4 for statement.

Current AUX\_INFO section:

-----  
<AUX\_INFO |geo\_descriptor=2 |wwa\_type=4

Corrected AUX\_INFO section:

```
-----
<AUX_INFO |geo_descriptor=2 |wwa_type=2
```

This problem should be put on the list for OB7.2.1 Maintenance Release. **(DR 18711)**

**Problem. Invalid variable in SMW followup template (ref OB7.2.1 DR 18587)**

There are over a dozen instances of [\$\$ACT\_VAL.eq.CON] that should be [\$\$ACT\_VAL!.eq.CON] in the wwa\_mar\_wx\_sta.preWWA template. Note the "!" left off the end of the variable name. As a result, this condition will never be met since it is not a proper variable name in the WarnGen template world. **(DR 18710)**

**Problem. Invalid variable in FFS template (ref OB7.2.1 DR 18584).**

There is one instance of [\$\$ACT\_VAL.eq.CON] that should be [\$\$ACT\_VAL!.eq.CON] in the wwa\_fflood\_sta.preWWA template. Note the "!" left off the end of the \$\$ACT\_VAL! variable name. As a result, this condition will never be met because it is not a proper variable name in the WarnGen template world. **(DR 18709)**

**Problem. Improper wording (siren activation) in CTA (ref OB7.2.1 DR 17022)  
Reference DR 16835.**

DR 16835 corrected the problem with the SVR template. However, there are three additional templates that need this correction:

1. wwa\_svrwx\_sta\_county.preWWA (SVS)
2. wwa\_ffw\_svr.preWWA (combined FFW/SVR)
3. wwa\_fflood\_sta\_county.preWWA (convective FFS)

The following is the incorrect 80 mph wind CTA:

```
VAR |lead=DESTRUCTIVE HURRICANE FORCE WINDS IN EXCESS OF 80 MPH.
|var=wind
VAR |lead=~SIREN ACTIVATION IS SUGGESTED. |var=siren
VAR |lead=YES |var=windYes
```

The following is the correct CTA wording:

```
VAR |lead=DESTRUCTIVE WINDS IN EXCESS OF 80 MPH. |var=wind
VAR |lead=YES |var=windYes. (DR 18708)
```

**Problem. WarnGen: Invalid variable in Flood advisory statement template (OB7.2.1 DR18586)**

There is one instance of [\$\$\$sState.eq.ON] that should be [\$\$\$sState!.eq.ON] in the wwa\_flood\_adv\_sta.preWWA template. Note the "!" left off the end of the variable name. As a

result, this condition will never be met because it is not a proper variable name in the WarnGen template world. (DR 18706)

**Problem. Invalid variable in Flood advisory template (OB7.2.1 DR 18585).**

There is one instance of [\$\$\$State.eq.ON] that should be [\$\$\$State!.eq.ON] in the wwa\_flood\_adv.preWWA template. Note the "!" left off the end of the variable name. As a result, this condition will never be met because it is not a proper variable name in the WarnGen template world. (DR 18705)

**Problem. A.FA followup will add mistakenly adjacent CATs (Ref OB7.2 DR18090)**

On the Areal Flood Advisory Product if "arroyo and small stream" is selected and then select other CATs "ice jam" and "urban flooding" when creating the followup, adjacent CATs will be selected automatically such as "ice jam and rain" and "rural flooding/small streams".

This error only happens when "arroyo and small stream" is selected, which only appears on the Areal Flood Advisory. (DR 18677)

**Problem. Unable to issue FLS in WarnGen (Ref. OB7.2.1 DR 18241)**

On 10/15/06, when LUB selected the FLS statement, WarnGen ignored the request and reverted back to the default SVR. Purging one FLS product from the fxatext database resolved the immediate operational problem. If the problem was not fixed, the WFO would need to manually create the FLS statement.

LUB said that the FLS causing the problem was created in RiverPro with word wrap off. Jim Ramer was able to duplicate the problem and on 11/7 created a "very low risk" algorithm change in method LocalWarningInfo::dbTextToTextSeq() and an even lower risk buffer size change that could be implemented in a maintenance release. Jim's summary:

*My personal opinion is that it is very low risk. Even lower risk would be instead of changing the algorithm, just change the size of the buffer called 'line' from 500 to 5000.*

*Were it up to me, I would use the lower risk fix for a patch release at the earliest possible opportunity, and check the algorithm fix into OB7.2. However, it is not up to me.*

*The executables for which this will impact their function are warnGenWish and IGC\_Process. No localization is needed to implement the fix, just swap out the executables.*

This problem is similar to an error documented in DR 17987 (RLX on 9/1/06). The RLX case could not be reproduced by GSD using the RLX environment and the DR was closed. Jim Ramer said that the implementation of hydrologic VTEC would not necessarily resolve the problem (caused when WarnGen uses complex logic to parse fxatext products whereas VTEC will provide info gathered by parsing the fxatext products.). (DR 18663)

## 1.18 Guardian

### **Problem. Sound files cannot be playing simultaneously (Ref. OB7.2 DR 18218)**

Currently, Guardian uses the line command "play" to play a sound file.

This command, unfortunately, cannot play more than one sound file at a time. If guardian is configured to respond with a sound file for more than one 'situation', the played sound is erratic and lasts longer than it should. If the user tried to turn the sound off as it is playing, it will not stop right when the mouse button is clicked, but will last longer (depending on how long the file has been looped and how long the various sound files are). This fix for this is known - use 'artsplay' instead of 'play' (already tested on fsld, where this bug was identified). If this DR is actioned to DEV-TL this week, then the fix can be in this week. This DR should definitely be in OB7.2. Otherwise, Guardian users will see Guardian not responding to their acknowledgements of sound messages and get very frustrated with Guardian. **(DR 18236)**

### **Problem. Guardian: OB8.1 Guardian Monitor button bind conflict (Ref. OB7.2.1 DR 18413). (DR 18822)**

Currently, a Button-1 click on a Monitor Button in Guardian will launch its associated exec (if there is one defined), and a Double-Button-1 click will clear the Monitor button. This was indeed tested a while ago and passed, but now it seems that when desiring a Double-Button-1, we end up with both actions: the exec will launch AND the button will clear. This is not desired. We need to come up with a different way to clear the Monitor Buttons (and apply it to the Text Sections as well, while we're at it).

### **Problem. Guardian layout configuration error (Ref. OB7.2 DR 18167)**

When Guardian is launched on screen :0.0 (for example) and then is switched to screen :0.1, the user cannot edit the layout in the configuration GUI. An error box is given when these edits are attempted and it is attached to this DR. This was recently tested on lx3-tbw3 on 10/30/06 at about 14Z. **(DR 18235)**

### **Problem. Guardian Configuration GUI does not come to foreground (Ref. OB7.2 DR 18166)**

When the Guardian logo is clicked with mouse button one the Guardian Configuration GUI properly launches and comes to the foreground. If other applications, such as D2D, are launched over the Config GUI, clicking on the Guardian logo will not bring the Config GUI to the foreground. The Config GUI task is listed in the taskbar and users can bring it to the foreground by clicking on the task as a quick work around. **(DR 18234)**

### **Problem. Guardian does not allow audio acknowledgements (Ref. OB7.2 DR 18142)**

It was found that Guardian does not allow the audio to be acknowledged. When an audio file is played, the user cannot click on Guardian to stop the sound. **(DR 18233)**

**Problem. Guardian does not produce a system beep (Ref. OB7.2 DR 18141)**

It was found that Guardian does not produce a system beep when configured to do so. (DR 18232)

**Problem. Guardian does not recognize the audio duration configuration (Ref. OB7.2 DR 18140)**

It was found that Guardian did not recognize the audio duration configuration. If the audio duration is set to 15, 30, 'perpetual', etc. and the sound file is short (say 5 seconds), the sound file is only played once, not looped. (DR 18231)

**Problem. Guardian restarts when sent an invalid priority (Ref. OB7.2 DR 18139)**

It was found that Guardian would restart when sent an invalid priority. Guardian has six priorities (0-5). If a message is sent with a priority other than 0-6, Guardian will restart. (DR 18230)

**Problem. Multiple instances of Guardian running (Ref OB7.2 DR 18138)**

It was found that sometimes Guardian would launch twice when a user would login to KDE. (DR 18229)

**Problem. Applauncher refers to old version of HydroView/MPE (Ref. OB7.2 DR 18216)**

The applauncher menu used to launch the hydroapps launches the OB6 version of Hydroview, when it was still combined with MPE. The correct applications are accessible via the D2D NCEP/Hydro Menu. This was fixed in OB7.1 in DCS 3306. (DR 18228)

## 1.19 SNOW

**Problem. SNOW application is missing on TBW4 (Alaska site).**

While clicking on "Obs" from D2D display, no "SNOW" can be selected on TBW4 test platform. Because the dataMenus.AK.txt file in the /data/fxa/nationalData/ directory is missing the "SNOW" entry. (DR 18896)

**Problem. SNOW: Mesonet hourly precip error. (Ref. OB7.2.1 DR 18497).**

The hourly precip values for Mesonet stations are inaccurate, due to a units conversion error. Fix available. This is a duplicate DR of OB7.2.1 DR 18497. (DR 18633)

**Problem. Increase precision of Hourly Precip thresholds.**

The hourly precip column in SNOW has a precision 0.1 inch, but the configuration threshold GUI only allows red and yellow threshold setting at a precision of 1 inch. A forecaster suggested that the threshold precision was too crude, and that it be adjusted to a finer scale. A 0.01 inch precision would match the units in the table, but it would cause the user to have to do an

inordinate amount of button-clicking to set the thresholds. MDL will adjust the threshold precision to 0.1 inch. **(DR 18424)**

**Problem. Use customized config file to override delivered file.**

WFOs not wishing to run SNOW can use the /data/fxa/nationalData/SNOWallAdjacentWFOs.txt file to make localization remove SNOW from the D-2D menu. This file can also be used for permanent area configuration changes. The file is installed, though, so it is subject to overwriting in a subsequent build. A better solution is to have localization look for the file in /data/fxa/customfiles/ first. That way, the customizations are safe, and the installed version is preserved. **(DR 18383)**

**Problem. Table incorrectly ranking negative numbers.**

SNOW is supposed to rank its three temperature columns -- temperature, dewpoint, and wind chill -- by emphasizing the lowest, coldest values. When the values are negative, though, the table appears to be ranking by "absolute value", such that if one of the aforementioned columns were selected for sorting, a 1 degree Fahrenheit value would be ranked higher than a -5. With below-zero values, this could deprive forecasters of seeing the coldest temperatures in the way they should expect to see them (a situational awareness issue). Display of the proper, coldest worst-case temperature at the county level should also be verified. Note that this DR will serve as a duplicate for OB7.2.1 DR 18391. **(DR 18380)**

**Problem. SNOW config changes causing table to crash.**

The monitoring area configuration GUI is causing localization file corruption (the zoneCountyList.dat file is being re-written at zero size for instance). If a user modifies the zone/county setup and updates the SNOW list, the SNOW table will fail upon the next instantiation. Parallel Problem to SAFESEAS DR 18378. **(DR 18379)**

**Problem. Hourly Precip not being displayed properly (Ref OB7.2 DR 18178)**

This is an OB8.1 duplicate of OB7.2 DR 18178. The Hourly Precip is not matching up with the METARs field. **(DR 18211)**

**Problem. SNOW-17 PRNTOPER output not correct(Ref. OB7.2 DR 17824)**

The output from the PRNTOPER SNOW-17 operation is not displaying the same data as the PRDUTIL dump command. Because the two programs are reading the same data from the fs5files, the output from both programs should be the same. **(DR 18237)**

## 1.20 FFMP

### **Problem. FFMP: Guardian FF popup should list CWA (FFMP-32 ... (Ref. OB7.2 DR 18269)**

Test steps 5, 7 and 8 of FFMP-3242-OB7.2-330-4\_V2 fail. The CWA should be included on the FF popup from Guardian. **(DR 18823)**

### **Problem. FFMP: OB8.1 Space after CWA in FFMPradarToCWA.txt file ... (Ref. OB7.2 DR 18305)**

If there is a space after the radarname/CWA entry in the /data/fixa/tstorm/FFMPradarToCWA.txt file the FFTIWish GUI will show a button for the CWA but no label. To reproduce the problem, edit the FFMPradarToCWA.txt file and include a space after one of your entries. For TBDW the following entries were used.

kbhx STO EKA

kbbx STO

kdax STO

Inadvertently include a space after STO on second entry. Save the file then go back to Guardian. Left click on the FF button. The FFTI control window will display.

For the above entries, three entries were seen under the "CWAs that will be monitored" section. The first was STO with a check box. The second was EKA with a check box. The third was a check box with no label. Again when clicking on the box with no label, the FFTI control window disappears. When this was corrected the FFMPradarToCWA.txt file to remove the space, the correct entries were seen under the "CWAs that will be monitored" section. The correct entries are two check boxes; one for STO and one for EKA. **(DR 18820)**

### **Problem. tcl error when zooming out using FFMP table.**

The problem was reported at sites EAX, DMX, and PBZ. As what Vada Dreisbach described in DR 18658 which was canceled since the problem could not be reproduced on the same system a couple of days later, the problem was found after the OS security patches were installed. It did not occur on TBDW during the SyAT testing.

The sited reported that when it launched FFMP and selected a county to zoom in on, and then selected the Group button to zoom out, a tcl error (see attached image) appeared. The users couldn't do anything with FFMP after that. I've been working with Vada Dreisbach and I gave her a small change to an FFMP tcl file to change. After she put in my change to FFMconstruct.tcl on one workstation, she didn't see the problem anymore.

Although I still could not duplicate the problem on our NMTW and NHDA systems, the sites sought the fix to be installed ASAP because the TCL error blocked their usage of FFMP in the flash flood event warning. The fix would be one line change in one TCL script file and thus there

is no need to re-compile. We already submitted an ATAN and tried to have our fix to be tested at the sites. We think the fix should be accepted into OB8.1. **(DR 18719)**

**Problem. FFMP OB8.1: reg\_county GELT contains marine zones (OB7.2.1 18390, OB8.2 18906).**

During OB8.1 PIT, we discovered strange marine zone aggregates in the county listing in the FFMP Basin Table. The behavior of these entities is not as it should be, yielding tcl errors. We tracked it back to DR 16231 (SAW/WOU issues), which added marine zones to the reg\_county GELT! After speaking with the developer that fixed DR 16231 (Jim Ramer), we understand how that fix was allowed due to the late nature of the issue and the ease of the fix (no compiled code change), however, marine zones really do not belong in a county GELT, and the result is an FFMP that provides elements that can cause problems in FFMP. Now - you might think, how in the heck would a small basin get geographically associated to an open-water marine zone? I believe it has to do with edge conditions and resolution differences. Still, even if we changed the resolution of the reg\_county GELT, I do not believe we'd eliminate the problem - only reduce it. I suggest that marine zones be removed from the reg\_county GELT and have actual marine GELTs be used by DR 16231, which will require code change, test, and re-compile.

NOTE that this was discovered during OB8.1 PIT, but since DR 16231 is an OB7.2 DR, this issue is an OB7.2 issue!! (DR 18631)

**Problem. FFMP: Sort by FFG improper use cutoff.**

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. **(DR 17322)**

**Problem. Basin Zoom Problems (Ref OB7.2 DR 16677 and DR 18399)**

- 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 does 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 a user re-ranks the Table after the user zooms in on one particular basin.
- 3) The Table behavior for the aggregation layers should be same as the County -> Basin way when a user chooses "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. **(DR 18330)**

**Problem. FFMP: Basin Trace clear.**

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. (DR 17317)

## 1.21 SAFESEAS

### **Problem. SAFESEAS table crash.**

The SAFESEAS table was crashing upon startup. This happened to SNOW as well. This was fixed. (DR 18575)

### **Problem. OH table shrinks, shows config error.**

The SAFESEAS Observation History table, which shows 24 hours of data for a platform, is shrinking into a small nub, too small to show any data. It is also popping up Tcl/Tk and configuration error boxes (the latter indicating a corrupt config file).

(DR 18386)

### **Problem. Use customized configuration file to override delivered file.**

The /data/fxa/nationalData/adjWFOinfor.txt file is the config file used to determine whether SAFESEAS runs at a WFO or not. This file has also been used for permanent SAFESEAS configuration changes. The file is installed, though, so it is subject to overwriting in a subsequent build. A better solution is to have localization look for the file in /data/fxa/customFiles/ first. That way, the customizations are safe, and the installed version is preserved. This DR has been primed from parallel SNOW DR 18383. (DR 18384)

### **Problem. Bad unit labels.**

In the SAFESEAS table's configuration thresholds interface, the Peak Wind and SST labels have incorrect unit labels (ft and mb instead of kts and F). This is a cosmetic problem that has no influence on actual SAFESEAS functionality. This was fixed. (DR 18381)

### **Problem. config changes causing table to crash.**

The monitoring area configuration GUI is causing localization file corruption (the zoneCountyList.dat file is being rewritten at zero size for instance). If a user modifies the zone/county setup and updates the SAFESEAS list, the SAFESEAS table will fail upon the next instantiation. Running multiple "-safeseas" localization switches will cause SAFESEAS zones and counties to be removed from the localization files, leaving SAFESEAS with nothing to monitor. Merge software should handle this. (DR 18378)

### **Problem. SAFESEAS localization error blotting out configurations.**

Running multiple "-safeseas" localization switches will cause SAFESEAS zones and counties to be removed from the localization files, leaving SAFESEAS with nothing to monitor. Merge software should handle this. Running multiple "-safeseas" localization switches will cause SAFESEAS zones and counties to be removed from the localization files, leaving SAFESEAS with nothing to monitor. Merge software should handle this. (DR 18377)

**Problem. SAFESEAS: IWX needs a config text file update.**

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. (DR 17214)

**Problem. Safeseas Anchor" is occasionally incorrect.**

While running the SyAT test case for Safeseas, noticed that the Safeseas Anchor" is occasionally incorrect. (DR 16760)

**1.22 Other****Problem. Wx tool crashes GFE (Ref OB7.2 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. Forecasters 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

There is a file in the GFE workset that was changed to fix a DR in version 7.2. The file is GFESuite/libs/ifpData/serverData/WeatherKey.H. However, since then, somehow the previous version was put back into the baseline and went unnoticed until now. We currently have several open trouble tickets related to this file.

**Note:** Conditional pass. The manualTestCaseIndex.html file was updated and I can get to the test case, but the manualTestCaseIndex.html file also lists the number of test cases in each section. That number is not updated. It still lists 23 test cases even though there are 24. I'll pass this one on the condition we can do it right for OB8.2 DR 19073. (DR 19072)

**Problem. MAKE changes to accommodate GUAM time zone (Ref. 18635).**

GUAM is changing the time zone name from LST to CHST. This DR will cover

LSR

CLIMATE

HWR

The following text describes the change needed:

You have to make a change to the file ifps-(site id).env located in /awips/adapt/ifps/localbin/

There is a line that defines the time zone with the variable IFPS\_SITE\_TIMEZONE. This line must be updated to read "IFPS\_SITE\_TIMEZONE=CHST".

**(DR 18832)**

**Problem. NMAP upgrade to 5.10.2.**

NMAP has been upgraded to 5.10.2, and needs to be included in this AWIPS release. **(DR 18834)**

**Problem. LWD enhancement request: Bundle all warning display options.**

Currently the D2D has options for all of the various warning types separate under the NCEP menu header. It would be beneficial to add an option that bundles all of the warning types, for both local and regional display views, to save forecasters additional clicks.

Also, as Jim Ramer noted, a new key should be created to track all of the warning products so this combined product will update regardless of which warning loads first. This new product would be loaded, and unselected, as part of this new bundle. **(DR 18428)**

**Problem. OB5-P: Request/reply incompatible between releases (Ref OB6 DR 16357). (DR 16361)**

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. The work-around is simply to request the product from a site at the same release. Root Cause: transition

**Problem. DE: OFSDE/BATCHPOST not transferring data or data incorrect (Ref DR 18436). (DR 18471)**

At the RFCs the OFSDE/BATCHPOST process moves data from the IHFS database. After loading the OB7.2 Beta and running the OFSDE/BATCHPOST process, either the stream flow data was missing or values were not correct. For example, a location where the valued should have been between 8 and 9 feet was transferred to the fs5files as 700.34 feet.

**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. DHM: dhmNotify.C needs update (Ref. OB7.2 DR 18414)**

The data keys in dhmNotify.C are obsolete and needs to be updated. Without the update, notification message cannot be sent to D2D for DHM display update. **(DR 18356)**

**Problem. ECMWF Hi-Res: Contour value/image mismatch.**

ECMWF Contour and image values are not consistent. At one bulls-eye the value on the contour reported 4.14 in and image sampling reported 3.44 in. **DR 18780)**

**Problem. Cannot display ECMWF HiRes cross section.**

Not able to display a cross section from the ECMWF HiRes sample data.

Displayed plan view of ECMWF HiRes Relative Humidity at several levels and then tried to load a cross section of RH and no inventory was returned in the Volume Browser window.

**(DR 18675)**

**Problem. DE: Incorrect units for ECMWF-HiRes display of 3hr and 6hr max/min temps.**

During PIT testing it was discovered that for the 3-hour and 6-hour max/min temperatures under ECMWF-HiRes, the contours plot correctly in Fahrenheit, but the images plot incorrectly in Kelvin. Need to make correction in gridImageStyle.rules. **(DR 18342)**

**Problem. DE: GFS40 D-2D display for Alaska is offset down and to the left. (DR 18469)**

The display of the AK GFS40 data in D-2D is offset about 1 degree down and to the left. AK discovered the problem after they had the data available for a few days. Changing the input data

resolution (DX/DY values) from 47.5 to 47.625 (to make it quadruple the resolution for grid 203, as specified in NCEP's documentation for grid 160) did not resolve the problem.

The problem is due to the fact that AWIPS was configured based on the expectation of receiving a grid in which the upper right latitude/longitude was defined as 57.634/-53.660, the same as grid 203. What is being sent has upper right latitude/longitude of 56.218/-51.658. One solution is to change /awips/fxa/data/localization/scripts/makeDataSupps.csh so that the entry for grid160.sup has 56.218/-51.658 instead of 57.634/-53.660. (OB7.1)

**Problem. RFC Archive DB: System Crashes when using DatView print button.**

System crashes when printing the data text file from the DatView Text window and receives an error message when printing by using command line. The steps follow.

Launched the Archive Database Program GUI on ax-tbdr

Executed Query from the DatView selection window

Selected Print button from the DatView Text window - The system crashes and returns to the Archive Database Program GUI

Also saved the tabular data to file

Exited DatView window and printed the file through the command line - Received a lp error message.

**Previous Possible Workaround.** Modify the software to set the token called "datview\_have\_printer" to '0' or '1' for the print button to gray out or ungray. This token is set in /awips/hydorapps/.Apps\_defaults\_site. (DR 18295)

**Problem. Previous discussion not included in AFD. (DR 18171)**

The ER does not include the Prelim entry in the definition of topicDividers. This causes no text to be included in the previous discussion section. Ticket description:

Jeff Sites-ILN reported that the baseline AFD formatter is not working properly. He is trying to insert previous AFD products and only the Date and Time are showing up leaving the text portion.

Actually the baseline defines the Prelim entry and does not have this problem, but code can be changed so that the previous discussion text is included even if the Prelim entry does not exist. (OB7.2)

**Problem. Remove generated files.**

The following are generated files, and should be removed from the workset:

D-2D/src/applications/ldadScheduler/pkgIndex.tcl

D-2D/src/applications/radar/rgcontrols/pkgIndex.tcl

D-2D/src/applications/volumeBrowser/inventoryFont.pcf  
D-2D/src/igc/pkgIndex.tcl  
D-2D/src/tclFXA/pkgIndex.tcl  
D-2D/src/tclLib/pkgIndex.tcl  
ldad/src/webDissem/hmserve/ingest/hmingestd.class  
tools/makedepende.pyc  
tools/makedependf.pyc

I think we have removed the pkgIndex.tcl files before. I think part of the reason they have come back is that the "make clean" target in the corresponding Makefiles does not remove them. **(DR 18307)**

**Problem. Time Of Arrival Process hangs & its relying on wwa's timezone gelt file.**

It was observed that the Time Of Arrival process would fail to be terminated after a dirty shutdown of D2D. The hung ToA process would have a tendency to hog computer CPU resources. Changing the TOA associated depictKey value would make it terminate properly. Also adding it to the list of processes list in the killPrevious.tcl will guarantee the leftover process is killed before starting D2D.

Currently, if wwa's timezone gelt file does not exist, the TOA tool would become unusable, would change it to be functional without providing local time info in absence of timezone gelt file. **(DR 17722)**

**Problem. Product Maker does not load products sometimes; D2D; volume (Ref OB7.2 DR 17596)**

The Product Maker has been degraded and does not have the functionality it once had, but for what is left to properly load does not always load. For example: If one tries to load the RUC 500mb height for all times, many times it will not load. When I tried it last, I pressed load and a red banner, I pressed load again and got a red banner, and I pressed it a third time and it loaded. I have attached a screen capture of these events. **(DR 17595)**

**Problem. RF OB5 TSCHNG mod improperly handles validdate values.**

According to the documentation, actions specified with a validdate, should be applied for equal or greater dates; however the action is not applied on the equal date. A warning message produced (if enabled by a technique) also says it is getting rid of data after the validdate, but it ignores the change on the validdate as well. **(DR 17080)**

**Problem. RF OB5 FCINIT error in fcpts.**

When attempting to print out all of the segments in a carryover group, the following error message occurs: 0\*\*ERROR\*\* IN FCPPTS - VALUE OF VARIABLE NUMEXT ( 656628) IS GREATER THAN 9999.. See /fs/hseb/bugs/r26-24 readme. **(DR 17038)**

**Problem. Improve perf. of DMD display on volume scan change (Ref OB7.2 DR 17297)  
[Dup of OB7.2 17297]**

Original Title: Improve the performance of the DMD product display when the volume scan changes.

Sometimes the 0.5 degree elevation takes so long to be updated that it does not appear to display. **(DR 18317)**

**Problem. Improve performance of DMD display on volume scan change (Ref DRs 17297 & 18317)**

Sometimes the 0.5 degree elevation takes so long to be updated that it does not appear to display. When the scan cycles to the 0.5 elevation the DMD display is blank. The data is there, reloading the DMD will result in the 0.5 elevation. At play is an NFS or timing issue. The new netcdf file is not visible to the workstation by the time it receives the notification to refresh the display and load the next time's radar image. This does not happen all the time, but seems to happen consistently on the same radar times, since we loop through the same data over and over on the test beds. It is most likely it is due to the size of the radar product/netcdf file that is being written to the NAS.

Theory Number One is that there is a NFS lag of 0-3 seconds which causes the workstation not to "see" the new netcdf file by the time it receives the notification to refresh the display. Testing with a new kernel which has fixed NFS issues found in OH and GFE software which were seeing significant NFS delays and problems with caching did not fix this DMD issue. High traffic/usage will also cause a delay.

OPR DR 18355 has been created to replace OB7.2 DR 17297 and OB8.1 DR 18317. All three DRs have been updated and related. Note that 17297 and 18317 were updated in SWIT Comments. **(DR 18355)**

**Problem. Guardian: move conflicts with sample text (Ref. OB7.2 DR 18279)**

To move the Guardian main GUI, you right-click and drag it, but if you do this over one of the Text Sections or Monitor Buttons, you get the sample text as well (but it does not move). The sample text should be disabled when moving the main GUI. **(DR 18294)**

**Problem. Modify Install script to create directories for GOES channel.**

To modify Install script to create directories for GOES channel. By default i/p directory for GOES channel is not present; hence the Install script is to be modified to create a directory. **(DR 18267)**

**Problem. Add header patterns to acquire OPC/TAFB grids (Duplicate of DR18114)**

When the OPC/TAFB grids were activated over the SBN on 10/17/2006 the acqserver dropped them because the WMO header patterns are missing from acq\_categories.txt. **(DR 18264)**

**Problem. Guardian does not auto-start for new awips users (Ref OB7.2 DR 18096)**

Guardian auto-starts for old awips users, but does not for new awips users. The OB7.2 install correctly installs the `~/user/.kde/Autostart/AWIPS-autostart.sh` script, but when a new awips user is added to the system the `AWIPS-autostart.sh` script is not updated. The `setupAwipsUser.sh` script needs to be updated to install this file in the new users home directory. I have attached the `AWIPS-autostart.sh` files of an old awips user and a new awips user. **(DR 18263)**

**Problem. Makefile Changes for Successful Build**

When baseline is built, link errors were generated because of inconsistency with Linux Enterprise options. So code needs to be built twice to generate all binaries. **(DR 18262)**

**Problem. /awips/ops/data/mc/postgres.dx1apps.cron vacuum (Ref OB7.2 DR 18164)**

BCQ's `/data/db/ihfs` database disk partition was not being vacuumed as the crontab has hard-coded into it a vacuum command for the `ob6` database.

```

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

```

Numbers in the lefthand column are line numbers. The `hd_ob6` needs to be changed to `hd_ob7` to reflect the database name change done in OB7.1 install. Also, line 34 needs to be changed to reflect this change (vacuum/analyze all other databases). **(DR 18259)**

**Problem. OHD RFC - Historical Data Browser: System Crashes when saving the Station(Ref. OB7.2 DR 18149)**

While executing 'Historical Data Browser Test Plan', the system crashes on section 2.7 (Save List of stations) step#4. Refer to test plan attached for the steps. **(DR 18189)**

**Problem. GFE: rawRank variable bug (Ref. OB7.1 DR 18070)**

UnboundLocalError: local variable 'rawRank' referenced before assignment.

SampleAnalysis line 885 in `getDominantValues`. **(DR 18162)**

**Problem. RF OB3 IFP window must be repositioned on the screen.**

When making a mod when you bring up the mods viewer or other mods the window is pinned up to the upper left hand corner. You have to move the window out of the way so that you can click on file then re-run. (r24-62). **(DR 17854)**

**Problem. OB6 Install: Update install instructions for NMAP problem (see DR\_16929)**

OB6 Install instructions tell users to download NMAP, but at present (30-jan-06) there is not a working NMAP version available for OB6. (DR 16930)

**Problem. ESPADP Segmentation Fault.**

When running espadp from the command line and there are more than 100 forecast groups a segmentation fault will occur. (DR 18032)

**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. Remove the Product Maker application.**

Product Maker does not seem to have correct models available for selection. Choices under sources" are AVN. (DR 16920)

**Problem. Time match problem using Time Options with families.**

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. When using the Time Options and loading the model, choose a Time Resolution other than Default, such as 12 hours, to see the problem. (DR 15868)

**Problem. Profiler horizontal and vertical variance data are missing.**

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. (DR 3513).

**Problem. Could not verify that the Alaska Profiler has processed data.**

Test upper air data was processed by ldad on ls1 on the TBW4 testbeds. This was verified by examining the contents of the /data/ldad/Processed directory. However, there was no indication, either way, that the data products were processed on px2f-tbw4, in the routerStoreAk\* logs. Only the following message is repeated approximately every half-hour, "PROBLEM: No messages in time-out interval. (30 mins) Re-registering." Also, it seems that the ingested data is not available for D2D to display. Only the hourly data was available.

The test case for the Baseline\_AlaskaProfiler revealed the following issues. There was no indication, either way, that the data products were processed on px2f-tbw4, in the routerStoreAk\* logs, and it seems that the ingested data is not available for D2D to display. (DR 18913)

## 2.0 WARNING ADVISORY (WWA)

The following Discrepancy Reports (DR) have been fixed in AWIPS OB8.1.

### **Problem. Side effect on WOU products by the fix of DR\_16188.**

The version of LocalWarningInfo.[CH] that got checked into 8.1 subversion as revision 140 is preventing the proper parsing of county UGCs in WOU products. As such, watch display does not work in OB8.1, period. **(DR 18634)**

### **Problem. SPCcheck: LLL-tor/svrWatch.txt not have all counties in a watch.**

SPCcheck creates LLL\_torWatch.txt or LLL-srvWatch.txt for a tornado watch or a severe thunderstorm watch issued by SPC. Not all counties in the same CWA mentioned in the watch were included in LLL\_torWatch.txt or LLL-srvWatch.txt. WarnGen uses include mechanism to automatically ingest the content of LLL\_torWatch.txt/LLL-srvWatch.txt into warning products. The missing regions in LLL\_torWatch.txt/LLL-srvWatch.txt cause missing counties in WarnGen warning products.

The following is an example occurred at ILM: "On Friday March 2nd, Tornado Watch #51 was issued for all of our Southeast North Carolina counties and Northeast South Carolina counties. ... Our Severe Thunderstorm Warning and Severe Weather Statements only contained a mention of the watch in North Carolina in the text."

The missing counties issue has been confirmed with svr tstm watch 69 on March 23, 2007 at site EPZ.

History: SAW produc was replaced by WOU, and new code were added to SELSparagraphs.C to handle WOU (DR 16231). **(DR 18872)**

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

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". (DR 17756)
```

### 3.0 HYDROLOGY

The following Discrepancy Reports (DR) have been fixed in AWIPS OB8.1.

**Problem. HydroGen OB8.1 - Test Disclaimer not on graph output**

While executing the test procedures for DCS 3397 (see attached), step 16 fails due to "TEST DISCLAIMER" not being produced in a box in the upper left corner of the plot area. **(DR 18847)**

**Problem. RiverMonitor: 'Update Now' button disappears from main GUI.**

Following the RiverMonitor test procedures attached (step 18). The buttons at the top of the GUI that are present when the GUI is launched, including the 'Update Now' button, disappear from the GUI when Config menu --> RiverMon Group menu is selected and closed. I tried all menu options under the Config menu and they all behave the same way, once the submenus are closed the buttons disappear and the only way to see them back is by closing and opening the GUI again. **(DR 18854)**

**Problem. All Hydro Apps Help menus have version 7.2.**

All Hydro applications have version 7.2 listed under the Help -> about menu. The version should say 8.1 since OB8.1 Hydro apps have been installed sometime in January 2007.

These are the dates displayed under the help -> about menus:

Hydroview: Oct- 2006

River Monitor: Sep- 2006

Riverpro: Sep- 2006

Hydrobase: Jan- 2006 (version OB7)

MPE Editor: Oct- 2006

Site Specific: July 2006

Dam Catalog: (version 5.3- 2004). **(DR 18664)**

**Problem. MPE Editor: The System Crashes when loading a Radar for a particular site.**

While executing a baseline test case (Baseline\_HYDRO\_WHFS\_MPE) on LX4-TBW3 (Build w3) step 137 fail (refer to test procedure attached). When select a radar site (BOX) from the Radar Sites window and clicked OK button the four paned Single Radar Site window supposed to be displayed, but it is not instead the window disappears (system crashes).

**(DR 18602)**

**Problem. RiverPro VTEC ETN not reset in new year if carryover. (Ref OB72 18474) (DR 18538)**

**Problem. Riverpro mishandle VTEC for Flood Advisory (Ref OB72 18325). (DR 18537)**

**Problem. HydroView application crash problem (Ref OB72 18301). (DR 18535)**

**Problem. Send of RFC QPE grib product failing (Ref OB72 18202). (DR 18534)**

**Problem. Additional hydro fcst services info needed. ( DR 18687)**

**Problem. DE:Wrong id code in GRIBDecoder file (Ref. DR 18201). (DR 18827)**

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

This DR is the OB8.1 merge DR for OB7.2 DR 18201.

**Problem. TEST DR for evaluating OHD CM interaction (DR 18222)**

This is a test DR for allowing simulation/testing of the CM processes for OHD.

**Problem. MPE Editor: Can't change the DailyQC value '0.00' on 6 hours Data Options.**

While executing MPE Editor-3365-OB7.2-310-3 test case (refer to step 14) attached, when changes the precipitation value of '0.00' to a non-zero values (e.g., 5.0, 7.0, etc....) on 6 hours data options on the QC Precipitation Options window, the value '0.00' does not change respectively, but the color changes to manual. It does work for the non-zero values. However, the same function work for 24 hours data options for both zero & non-zero values. **(DR 18329)**

**Problem. HyDRoView Red Triangles for Temperature Data (Ref OB72 18397)**

The HyDRoView application uses color-coded triangles to depict the river status (non-flood, action, flood) at river point and forecast point locations. The color-coded triangles will be displayed even when plotting non-river data (e.g., temperature). For OB7.2, many locations are showing red triangles--indicating rivers above flood stage--when plotting temperature data, even though the river data is not above flood stage.

This depiction provides a "false alarm" to users who will believe that there is flooding at various locations when no flooding exists.

Added 12/19 - M KenseyL There is no workaround for this Problem.

**(DR 18539)**

**Problem. Run\_SiteSpecific fails to launch GUI.**

Executing /awips/hyDRoapps/whfs/bin/run\_SiteSpecific fails to launch the GUI. Upon investigation and comparison to the other test beds, it was found that there should not be quotation marks in the last line of the script (after the -e argument). **(DR 18514)**

**Problem. RiverMonitor adjustments of display and plots.**

RiverMonitor shows certain fields with too high resolution (such as time to nearest second) and plots with not enough legend info (identifying colors). **(DR 18446)**

**Problem. Hydro forecast service db needs more fields.**

In oB81, DCS 3398 involved new data stores for hydro forecast services. Upon review of the information stored, additional fields need to be monitored for these data stores. Specifically, there is a need to track the upstream points for a given downstream point. This info needs to be manageable thru the user interface. **(DR 18444)**

**Problem. Need to define location-specific look forward hours for Riverpro.**

In order to better support the operational implementation of the Hydrologic VTEC (H-VTEC) format in Flood Warning and Flood Statement products produced by Riverpro, sites need to be able to define a specific set of hours in which to look forward into the future for river forecast information. Right now, the entire forecast time series is considered. When there is significant fluctuation in the river forecast, such that the river rises above and falls below flood stage more than once during a forecast period, Riverpro may not always choose the best parameters for the H-VTEC codes. When this happens, the user must manually intervene and edit the H-VTEC code. As a result, FL and FLS products are being issued with incorrect, invalid, and inconsistent H-VTEC parameters. Additionally, the words in the product often are in conflict with the H-VTEC coding. Allowing the users to specify a period of time in which to look forward for forecast data will enable the application to perform better and result in less manual intervention.

This issue was raised at several of the WFOs that are participating in the H-VTEC Risk Reduction activity. These offices have implemented ATAN 842, which is essentially the OB7.2 version of Riverpro. **(DR 18452)**

**Problem. Riverpro Inserts County Instead of Parish for LA Locations.**

Riverpro variable which output county names and the word county, do not use the word parish for locations in LA.

Variables names are: and **(DR 18180)**

**Problem. Hydro/VTEC OT&E: After dropping and recreating the textdb, one workstation still thought 38 was next ETN.**

During Hydro/VTEC OT&E testing, in order to test ETN sequencing, we dropped and re-created 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. **(DR 16624)**

**Problem. HydroView QC GUI window doesn't fit characters.**

The HydroView Questionable and Bad Data display window cuts off data. This is a minor problem but should be fixed. **(DR 17154)**

**Problem. HydroGen uses incorrect crest data.**

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. **(DR 17153)**

**Problem. WFOA: Problem With CPC Outlook Data.**

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 this: 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. **(DR 17503)**

## 4.0 LDAD

The following Discrepancy Reports (DR) have been fixed in AWIPS OB8.1.

### **Problem. LDAD MSAS data not purged correctly.**

Data in /data/fxa/LDAD/mdl\_data is not being purged correctly. The most recent versions of the files are being purged instead of the oldest.

**(DR 19127)**

### **Problem. New LDAD ls2 HP sed Command not Found .sh home/AAS/test scripts.**

Files in /home/AAS/test contain HP syntax running in a Linux environment, tbdw3.

tsa\_mesonet.sh, tsa\_mesonet2.sh, tsa\_mesonet3.sh, vdot.sh, vdot2.sh, vdot3.sh, RAWS.dat, RAWS2.dat. RAWS.3.dat

I tried to cp the files in /home/AAS/test and received permission denied on the files.

I tried to execute vdot.sh "Command not found" error message displayed.

testcase: mesonetbackup. **(DR 18862)**

### **Problem. New LDAD cannot acquire and store RRS data.**

While copying data file from /home/AAS/LDADtest to /data/Incoming on ls2 LDAD server, it just sits there for a long time and then moves over to the Problem directory (it should move to the Processed directory). The co\_serv logs are as follows:

PROBLEM: sendIPCmessage: connect FAILED: connection timed out

PROBLEM: Host port is: 15008, listener port, inside firewall. **(DR 18850)**

### **Problem. New LDAD can not acquire and store ROSA data.**

While copying data file from /home/AAS/ROSAtest to /data/Incoming on ls2 LDAD server, it just sits there for a long time and then moves over to the Problem directory (it should move to the Processed directory). The co\_serv logs are as follows:

PROBLEM: sendIPCmessage: connect FAILED: connection timed out

PROBLEM: Host port is: 15008, listener port, inside firewall. **(DR 18849)**

### **Problem. New LDAD can not acquire and store ASOS and MicroART data.**

While copying data file from /home/AAS to /data/Incoming on ls2 LDAD server, it just sits there for a long time and then moves over to the Problem directory (it should move to the Processed directory). The co\_serv logs are as follows:

PROBLEM: sendIPCmessage: connect FAILED: connection timed out

PROBLEM: Host port is: 15008, listener port, inside firewall. **(DR 18848)**

**Problem. Mesonet Analysis not correctly sorting observations.**

In OB7.2, the mesonet data received via LDAD is being stored in the wrong hour's netcdf file. It appears that the LDAD decoders are not working properly, specifically the routerStoreNetcdf process.

When mesonet data comes in, one product will contain data from several hours (a collective). Prior to OB7.2, the data would get broken up and stored to whichever hour it belonged. After OB7.2, it turns out that all of the pieces of data contained in one mesonet file will be stored in whichever hour the first line of the product contains.

For example, if a product comes in at 21Z and the first line of the product has information from site X at 21Z and the second line contains information from site Y at 07Z earlier that day, both pieces of data will be stored in the 21Z netcdf file.

-----

MK 4/19/07: At today's TSR, this DR was agreed by SWIT and the Government to downgrade to Major. The fix used in the ER, using the 7.1 executable, works in 8.1 and is used as a workaround until the permanent change is put in place.

**(DR 18766)**

**Problem. Disable LDAD webDissem build.**

The webDissem tree does not build on Linux due to the Java code being out of date and the build scripts making assumptions about running on HP-UX. The tree contains software that is only run on the HP-UX LS1 server. No changes have been made to this software in OB8.1; therefore, it does not need to be built for a delta install. Building of the webDissem tree should be disabled.

Also note that webDissem will be obsolete with the new Linux-based LS1. **(DR 18475)**

**Problem. Some LDAD router processes have memory leak and consume SWAP space.**

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. **(DR 16501)**

**Problem. LDAD processes fail due to incorrect environment (Ref. OB7.2 DR 18296)  
(This is an OB8.1 merge of OB7.2 DR 18296)**

The routerShefEncoder fails to send products. It has been determined that this is due to the executable being started without certain FXA environment variables.

This will prevent sites from being able to send any LDAD data as SHEF products and possibly prevent other uses of LDAD.

***Workaround.*** Modify a startup script. **(DR 18370)**

## 5.0 SYSTEM

The following Discrepancy Reports (DR) have been fixed in AWIPS OB8.1.

### 5.1 Product/Process/System Monitoring

**Problem. Synoptic decoder failing once a day after OB8.1 install.**

Synoptic decoder failing once a day after OB8.1 install. (DR 19099)

**Problem. Remove LAMP - OCONUS LAMP/LAPS/MSAS menu entry is incorrect.**

On the OCONUS testbed, the NCEP/Hydro -> LAMP/LAPS/MSAS directory should be renamed to LAPS/MSAS. The LAMP menu entry under LAMP/LAPS/MSAS should be removed. (DR 18816)

**Problem. Remove LAMP - remove two additional Lamp doc files.**

In DCS 3376 NGM-LAMP was removed. It looks like there are two files in /awips/fxa/data that may also need to be removed:

getLampGrid.doc

getGridQPF.doc (DR 18814)

**Problem. Remove lamp account.**

The lamp account is no longer needed in AWIPS now that the lamp software has been removed from the system. Also, convenience scripts, such as VerifySSHkeys.sh need to be modified to no longer attempt to modify the lamp account. Other such scripts might exist; a search through AWIPS is needed in order to determine if there are other potential modifications needed. (DR 18811)

**Problem. GF: 2000 export\_grid processes were found on px3 and px4 during the failover test at TBW4.**

At least 2000 export\_grid processes were hung on px3 and px4 machines during the failover test. (DR 17699)

**Problem. Request/reply incompatible between releases.**

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. (DR 16357)

**Problem. DB: TextDB Reader fails to stop.**

I have noticed several occasions 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 cannot open the socket to the database, and in some cases killing the old Reader does not clear the socket. When this happens the machine on which the reader was running needs to be rebooted to fix the problem. **(DR 16703)**

**5.2 Radar System****Problem. RadarMsgHandler may not announce urgent radar conditions (OB8.2 DR 19028)**

While investigating DR 18767, an additional problem was found: It is possible for a "no base data" or "RDA offline" condition to mask the reporting of an "RDA offline" or "RDA inoperable" condition. Note that "no base data" condition, which is the problem reported in DR 18767, cannot be masked due to this additional problem. **(DR 19027)**

**Problem. ORPGCommsMgr fails to close open files before deleting (OB7.2 DR 18771)**

This is an OB8.1 duplicate DR of OB7.2 DR 18771

The ORPGCommsMgr process which runs on dx2f at all AWIPS sites and is responsible for the ingest of radar data from the RDA is failing with error message: EMFILE (Too many open files) the culprit are temporary nfs transaction files in /data/fxa/radar/environData/.nfs\*

This failure is manifested at sites by the lack of storage of radar images and data. When the ORPGCommsMgr is in this state, no radar data from the site's local RDA will be ingested. This affects ALL sites ingesting via the ORPGCommsMgr process.

The workaround in place is to periodically restart the ORPGCommsMgr process, which clears out the errors and open files.

---

**CONCLUSION:**

The ORPGCommsMgr process is not closing the /data/fxa/radar/environData/YYYYMMDD\_HHMMSS.kxxx files before deleting them. This is what creates the .nfs, when a file is deleted on an nfs partition which a process is still reading. If the ORPGCommsMgr closes the file properly, and then deletes the YYYYMMDD\_HHMMSS.kxxx file, the .nfs wouldn't even show up.

The error in the strace: EMFILE (Too many open files) is given when the calling process has too many open files in memory, and not the OS. **(DR 18916)**

**Problem. Problems displaying radar GSM graphics.**

Two problems are found when displaying radar Unit Status (GSM) graphics in D2D:

**Problem 1:**

3 lines are missing for TDWR SPG Unit Status display:

RDA Build =

RDA Channel =

RPG Version =

These 3 lines are displayed for Nexrad Unit Status since RPG build 5. Mike Istok said only RDA version and SPG version should be displayed for TDWR radars like below:

RDA Version =

SPG Version =

**Problem 2:**

Load TDWR SPG Unit Status first, click button "Clear" and then load NEXRAD Unit Status to D2D, the boxes are still labeled as TDWR and SPG while RDA and RPG should be displayed.

Two problems are found when displaying radar Unit Status (GSM) graphics in D2D: Problem 1: 3 lines are missing for TDWR SPG Unit Status display: RDA Build = RDA Channel = RPG Version = These 3 lines are displayed for Nexrad Unit Status since RPG build 5. Mike Istok said only RDA version and SPG version should be displayed for TDWR radars like below: RDA Version = SPG Version = Problem 2: Load TDWR SPG Unit Status first, click button "Clear" and then load NEXRAD Unit Status to D2D, the boxes are still labeled as TDWR and SPG while RDA and RPG should be displayed. **(DR 18641)**

**Problem. Additional corrections for radar radial displacement (Ref OB7.2 DR17927)**

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. (DR 18486)

**Problem. Dial Radar tries to connect to DS.**

I noticed in the dialRadar log that dialRadar is still trying to get to the ds. Due to DR 18049, I am unable to dial out via an x.25 line to an operational radar from the Raytheon test beds, so it's hard to say how this actually affects the true dial functionality of AWIPS. Below are a few lines from the attached dialRadar log. (OB7.1). **(DR 18421)**

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

**Problem. Beta -- Cannot Send Products via SMTP, named errors.**

DMX was unable to send products via smtp/sendmail to mh3f-ancf.er.awips.noaa.gov when then were transition to smtp on 13-JUN-2007.

The site was unable to resolve the domain, ancf.er.awips.noaa.gov, and had no MX record or SOA for such.

This led us to download the db.er zonefile, which failed with "permission denied" errors in /var/log/messages (#dig ancf.er.awips.noaa.gov -t AXFR).

The permissions of /var/named are wrong, with various subdirectories being owned by root:named. Changing these back to named:named solved the problem, however there still exists a proc subdir which we are unsure if it should be there ... bind-chroot rpm was updated in OB8.1

This effects all OB8.1 sites - and results in them not being able to send WARNINGS or any products, nor receive products from DEFAULTNCF. **(DR 19152)**

**Problem. GFSLAMP- MOSBUFRDecoder.c Data File probably corrupted.**

On DX3, cd /data/logs/fxa/, the BufrMOS Decoder log contains the following message:

MOSBUFRDecoder.c PROBLEM: get report: data file is probably corrupted. message size is larger than the file size.

.....processing /data/fxa/ispan/bufr/GFSLAMP/JSMF11 ....

.....processing /data/fxa/ispan/bufr/GFSLAMP/JSMF15 ..... **(DR 18869)**

**Problem. Files in badGFS directory are never purged**

There is no entry in the purgeInfo.txt file to tell the purger to clean up the /data/fxa/ispan/badGFS directory. One of our testbeds had 19000 files left there, another had 46000 files. **(DR 18735)**

**Problem. Performance Enhancement: Move local storage of text prods (with NO\_STORE) to a local device.**

Currently, the acqserver process makes a temporary copy of ALL data as it arrives, then moves copies of the data to a directory specified in acq\_patterns.txt. The data that is tagged "NO\_STORE" is never moved to a directory. **(DR 15697)**

### 5.4 General

**Problem. Purge "-i" option not working correctly (OB7.2.1 DR 18467, OB7.2 DR 18466). (DR 18789)**

From Mike Moss email, 12-28-06

**Problem. RAX shefdecode\_pro/raw DST can be affected by TZ setting (dup of 18722). (DR 18770)**

This only is a problem when the TZ variable is not left undefined. If TZ is set to GMT or EST5EDT then it does convert times for any daylight savings time.

The solution has already been identified via DR\_18661. Need to re-build RAX executables because they use the same library.

**Problem. GFSdriverContr.config not getting published.**

D-2D/src/ipc/dataCapture/Makefile should list GFSdriverContr.config among its DATA items. Its presence allows the file to be published to /awips/fxa/data during the build. (The problem exists in the OB7.2 baseline, as well, but Raytheon captures the file some other way, and it is installed at field sites.) This problem is essentially the same as was documented and fixed under DR17866. (DR 18803)

**Problem. asyncScheduler quits after 10 days (ref DR18395)**

asyncLine, asyncScheduler's child, is mishandling the breakLog signal, which causes asyncLine (and ultimately asyncScheduler) to quit. (DR 18680)

**5.5 Install****Problem. Test mode control program (tmcp) does not work.**

The tmcp program appears to be broken. The status box is now only one line high and buttons are disabled/unresponsive. This seems to be caused by a recent rebuild of tmcp although there were no changes to the tmcp code itself(?)

A workaround is to create a file named "devEnvTestMode.txt" in a user's home directory. The file can contain the word 'OPERATIONAL', 'TEST', or 'PRACTICE'. Doing this will force the software into the specified mode. After creating the file, the user should log out of the LX and XT workstations and log in again.

The problem with this method is that the mode is changed for the \*user\*, not the workstation. (DR 19094)

**Problem. Incorrect permissions on /awips/hydroapps/lx/rfc/nwsrfs (Ref OB8.2 DR 19095)**

PTR: OB8.1 beta, there was a problem with the permissions on /awips/hydroapps/lx/rfc/nwsrfs in which they were 755, which meant that they couldn't write into that directory unless they were user oper and since they log into the workstations as their own users, it meant that users were not able to write into any of the directories below that.

This was a problem on all of the previous builds until OB7.1 and 7.2 in which it was fixed and now it is a problem again.

PTR: OB8.1 beta, there was a problem with the permissions on /awips/hydroapps/lx/rfc/nwsrfs in which they were 755, which meant that they couldn't write into that directory unless they were user oper and since they log into the workstations as their own users, it meant that users were not able to write into any of the directories below that. This was a problem on all of the previous builds until OB7.1 and 7.2 in which it was fixed and now it is a problem again. (DR 19090)

**Problem. POSTGRES DIR environment variable incorrect in .environs (Ref DR 17957)**

The POSTGRES DIR variable in the /awips/fga/.environs file defines which directory Postgres is installed at. In the OB7.1 version of the .environs file the POSTGRES DIR variable is incorrectly set to /usr/local/pgsql. The /usr/local/pgsql directory is where Postgres resided in OB6. In OB7.1 the /usr/local/pgsql directory was deleted and Postgres was installed in a different location. The POSTGRES DIR variable should be corrected to the new OB7.1 location for Postgres. (DR 19076)

**Problem. moveob72files.sh causing INSTALL release problems.**

(The moveob72files.sh script has a bad filename in Dimensions, causing problems with the build/release of the OB8.1 INSTALL workset. Since this file is specific to OB7.2, it is not needed in the OB8.1 workset and can be removed to eliminate this error. (DR 18488)

**Problem. masterGFEInstall script fails.**

Previously, the masterGFEInstall scripts failed when attempting to install GFE in OB8.1. It comes back with an error message that the site is OB8, but the script is expecting it to be OB7. Looks like MANDATORY\_AWIPS\_VERSIONS is hardcoded in this script as 'OB7', and this should be changed to OB8.

It also comes back with an error when finding the required files. The tar ball released is called "OB8.1\_GFESuite\_CORE.tgz" but the masterGFEInstall script is looking for "OB8.1\_RHE4\_GFESuite\_CORE.tgz". Either the masterGFEInstall script needs to change, or the build script, GFESuite/scripts/build/makeRelease, needs to change so that BUILD\_ARCHITECTURE is set to "RHE4". (DR 18558)

**Problem. GFE/GHG - Start time of hazard erroneously changed by software.**

MQT changed the end time of a hazard on 10/11. They did this around the start time of the particular hazard. GFE saw the change in end time and correctly assigned an EXT. But the start time was changed to the current time rather than 000000Z that it should have been for an ongoing hazard (it had gone into effect 18 minutes earlier). The segments that had no change were correctly coded with 000000Z for the start time.

This change in start time for an ongoing hazard is a violation of VTEC policy and causes our customers problems with decoding and tracking of the hazard. (DR 18156)

## 5.6 QPE/MPE

**Problem. RFC/MPE Editor-When editing the DailyQC the pops up window does not appear.**

While testing the Baseline\_RFC\_MPE Editor test case on LX2-TBDR (A2). The 'Send to Database' pops up window does not appear when the DailyQC (daily precip, temperature and freezing level) are modified. Step 82 on the test procedure fails (see test procedure attached). This step is at the end of the test case where the application is being closed. **(DR 18878)**

## 5.7 IFPS

**Problem. IFPS: (Katrina DR) Failed Site grids creation problem**

The failed site's grids are to be staged at the site in the exportgrids directory. That directory is supposed to be owned by user ifps and have 755 permissions on it.

Most WFOs have these permissions, but a few don't. In order to allow all users at all WFOs the ability to write the failed site's grids to this directory, the export\_grid\_data script should be modified such that the grids are copied to the exportgrids directory as user ifps. The grids are already being cleaned up as user ifps, so this should eliminate permissions problems of that type.

The failed site's grids are to be staged at the site in the exportgrids directory. That directory is supposed to be owned by user ifps and have 755 permissions on it. Most WFOs have these permissions, but a few don't. In order to allow all users at all WFOs the ability to write the failed site's grids to this directory, the export\_grid\_data script should be modified such that the grids are copied to the exportgrids directory as user ifps. The grids are already being cleaned up as user ifps, so this should eliminate permissions problems of that type. **(DR 19167)**

**Problem. IFP Not Able to Read All SSARREG Mods (Ref OB8.2 DR 19100).**

When running the SSARREG program in IFP, the program fails to read all the lines associated with a SETQ MOD. The MOD is comprised of 262 lines. After line 197 IFP complains that line 198 does not conform to a MOD definition.

**\*\*NOTE\*\*** THE ABOVE WARNING OCCURRED IN SEGMENT BONO3BPA FOR ROUTINE MTSCHN .

0 3 **\*\*WARNING\*\*** IN THE SSARREG MOD - INVALID FIELD ENTERED. THE CARD BEING PROCESSED IS:

05290716Z 285000. &

**\*\*NOTE\*\*** THE ABOVE WARNING OCCURRED IN SEGMENT BONO3BPA FOR ROUTINE MSSARR .

The line in question does conform to this particular MOD definition, as do all previous and subsequent lines. **(DR 19061)**

**Problem. IFPS: (Katrina) SvcBu CS can't rsync failed WFO's grids/possible NDFD corruption.**

There are two bugs on the Service Backup Central Server that should be addressed based on Item #8 in the NOAA/NWS Katrina Assessment.

1. When Katrina Assessment SPR 7287 is implemented, the Central Server will begin receiving both the backup and failed WFOs' grids via rsync. The CS must be able to properly handle the failed WFO's grids and route them to the proper location.

In addition, care must be taken to prevent the backup WFO and the failed WFO from sending grids at the same time. For example, if WFO AAA has to evacuate the building, WFO BBB initiates Service Backup. BBB will then export grids for both AAA and BBB via rsync. However, since AAA's systems are still running, WFO AAA will also be sending (old) AAA grids to the CS.

2. The SvcBu grids are pulled from each WFO via rsync clients on the Central Server. The data format is uncompressed netCDF grids, which are subsequently compressed after arriving on the Central Server.

NDFD looks at the uncompressed grids on the Central Server and pulls them to the NDFD host via a separate rsync client. If NDFD's client attempts to pull the grids at the same time the CS client is pulling the grids from the WFO, the data on the NDFD host may be missing or corrupt. This bug is also related to Item #8 in the NOAA/NWS Katrina Assessment.

There are two bugs on the Service Backup Central Server that should be addressed based on Item #8 in the NOAA/NWS Katrina Assessment. 1) When Katrina Assessment SPR 7287 is implemented, the Central Server will begin receiving both the backup and failed WFOs' grids via rsync. The CS must be able to properly handle the failed WFO's grids and route them to the proper location. In addition, care must be taken to prevent the backup WFO and the failed WFO from sending grids at the same time. For example, if WFO AAA has to evacuate the building, WFO BBB initiates Service Backup. BBB will then export grids for both AAA and BBB via rsync. However since AAA's systems are still running, WFO AAA will also be sending (old) AAA grids to the CS. 2) The SvcBu grids are pulled from each WFO via rsync clients on the Central Server. The data format is uncompressed netCDF grids, which are subsequently compressed after arriving on the Central Server. NDFD looks at the uncompressed grids on the Central Server and pulls them to the NDFD host via a separate rsync client. If NDFD's client attempts to pull the grids at the same time the CS client is pulling the grids from the WFO, the data on the NDFD host may be missing or corrupt. This bug is also related to Item #8 in the NOAA/NWS Katrina Assessment. **(DR 18782)**

**Problem. IFPS: (Katrina) Failed WFO's SvcBu grids not automatically exported to CS**

NOTE: The code for this DR is attached to SPR 7287 in the "adapt" database.

\*\*\*\*\*

When performing IFPS Service Backup, only the backup WFO's SvcBu grids are automatically exported to the Service Backup Central Server. The failed WFO's SvcBu grids must be manually exported.

Automatic attempts to export the failed WFO's grids fail due to a bug that causes the export script to look for the failed WFO's IFPS environment file in the wrong location.

The manual export of the failed WFO's SvcBu grids may only be done through the Service Backup GUI, not normally used during normal forecaster operations. As such, it is a step that is easily forgotten. This became a significant problem during the lengthy SvcBu in the aftermath of Hurricane Katrina.

If the failed WFO's SvcBu grids are not exported to the Central Server, it represents a single point of failure in an already stressed system. Because of this, Item #8 in the NOAA/NWS Katrina Assessment dictates that this bug should be corrected in order to avoid similar problems in the future.

It was initially thought that changes would have to be made to the Service Backup cleanup script to remove the failed WFO's grids from the rsync staging directory as a WFO cleaned up Service Backup. Indeed those instructions were added to the cleanup script, but unlike the environment file fix described earlier, these changes were never backed out. Thus, no further code changes were required for this portion of the DR. [UPDATE: The cleanup script did in fact need to be updated in order to properly delete the failed site's grids in the exportgrids directory.]

When performing IFPS Service Backup, only the backup WFO's SvcBu grids are automatically exported to the Service Backup Central Server. The failed WFO's SvcBu grids must be manually exported. Automatic attempts to export the failed WFO's grids fail due to a bug that causes the export script to look for the failed WFO's IFPS environment file in the wrong location. The manual export of the failed WFO's SvcBu grids may only be done through the Service Backup GUI, not normally used during normal forecaster operations. As such, it is a step that is easily forgotten. This became a significant problem during the lengthy SvcBu in the aftermath of Hurricane Katrina. If the failed WFO's SvcBu grids are not exported to the Central Server, it represents a single point of failure in an already stressed system. Because of this, Item #8 in the NOAA/NWS Katrina Assessment dictates that this bug should be corrected in order to avoid similar problems in the future. **(DR 18781)**

#### **Problem. IFPS: (Katrina DR) Failed Site grids creation problem.**

The failed site's grids are to be staged at the site in the exportgrids directory. That directory is supposed to be owned by user ifps and have 755 permissions on it.

Most WFOs have these permissions, but a few don't. In order to allow all users at all WFOs the ability to write the failed site's grids to this directory, the export\_grid\_data script should be modified such that the grids are copied to the exportgrids directory as user ifps. The grids are already being cleaned up as user ifps, so this should eliminate permissions problems of that type. **(DR 19167)**

**Problem. ECMWF Hi-Res time series scale/units problem.**

The scale is off by around a factor of 1000 for the ECMWF Hi-Res precipitation time series display. See the attached image showing the problem. The max value on the graph should be around 1.2 inches.

To replicate, using the volume browser load a plan view image of ECMWF Hi-Res precip. Load the points extension and move a point to an area with precipitation. Next, load the ECMWF Hi-Res precipitation time series from the volume browser selecting the point moved to an area with precipitation.

Also, Melissa Porricelli found that the unit on the ECMWF Hi-Res max/min temp time series is incorrect. The display is in Kelvin and it should be in degrees F. **(DR 19129)**

**Problem. IFPS Service Backup - localMapFiles.py file deleted (ref DR 18097 OB7.2.1)**

Upon exit and cleanup from IFPS service backup, the /awips/GFESuite/scvbu/etc/SITE directory gets deleted, thus deleting the localMapFiles.py file. If an office needs to reenter backup mode, the /awips/GFESuite/scvbu/etc/SITE/localMapFiles.py file will need to be re-created. The site will get shapefile errors upon startup of the backup ifpServer if they do not recreate the localMapFiles.py file.

The deletion of the localMapFiles.py file is also a problem for installations. Each install, the localMapFiles.py file needs to exist so installation does not fail.

The current way this is working is by design, but the current design causes problems. The solution should take into account the design of service backup where sites may need to back up the same site one time or another site the next. It should also account for the possibility of the ifpServer failure during backup and also take into account installation requirements. A possible design is to save off everything in etc/SITE to a special place when entering service backup, and then deleting the contents of etc/SITE followed by restoring the saved stuff when exiting service backup. **(DR 18577)**

**Problem. IFPS install fails.**

The IFPS install fails with the following error message:

```
"site variable is not defined. /awips/adapt/prelamp is not found."
```

This directory was removed as part of the LAMP removal task, so this directory and its environments are no longer available. Specifically, LAMP\_SITE environment variable is no longer defined, and a different method is now needed to get the site id. **(DR 18563)**

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

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

this is a duplicate of DR 18415, SPR 7267. **(DR 18480)**

**Problem. Host vars set to dx2f instead of px3f (Ref OB7.2 DR 18286)**

The host variable is set to dx2f instead of px3f in ifps-alu.env file. See below for the correct variables setup for IFPS/SVCBU OB7.2.

```
/awips/adapt/ifps/localbin/ifps-alu.env
```

```
SVCBU_HOST = px3f
```

```
CDS_HOST = px3f
```

Duplicate of SPR# 7238. **(DR 18527)**

**Problem. ifps cron restarted ifpServer during GFE install.**

dx4apps was modified to match the new ifps cron. **(DR 18513)**

**Problem. Develop script to test smtp functionality at sites from NCF. (DR 18332)**

To develop a script to test smtp functionality at sites from NCF. This script sends a test message to a given site and expects an acknowledgement.

**Problem. installIFPS INFORMIX to postgres conversion.**

The installIFPS script does an INFORMIX to postgres conversion. This was already done in OB7.1 and does not need to be done again. In addition, doing the INFORMIX to postgres conversion again could corrupt data. The INFORMIX-to-postgres conversion section needs to be removed from the installIFPS script. **(DR 18197)**

**Problem. IFPS install script problem with postgres account.**

In the installIFPS script there is a section where the user postgres looks for and tries to kill other users' processes in preparation for installing the software. This section starts with an echo message of "Looking for". Killing off other users' processes must be done differently because user postgres does not have permissions to kill other users' processes. **(DR 18196)**

**Problem. MPE Editor polygon edits not always shown (ref OB72 17886).**

If a QPE grid is displayed, and the user selects the edit polygon mode, and then performs successive raise/lower operations after closing each polygon, the latest polygon edits are not always displayed. The changes are there though -- if the user switches hours, and then switches back, the polygon changes are reflected. **(DR 18526)**

**Problem. MPE Editor: Can't change the DailyQC value '0.00' on 6 hours Data Options.**

While executing the MPE Editor-3365-OB7.2-310-3 test case (refer to step 14) attached -- when changes the precipitation value of '0.00' to a non-zero values (e.g., 5.0, 7.0, etc....) on 6 hours data options on the QC Precipitation Options window, the value '0.00' does not change respectively, but the color changes to manual. It does work for the non-zero values. However, the same function works for 24 hours data options for both zero and non-zero values. **(DR 18329)**

**Problem. AVNFPS menus are incorrect after wfoa install (Ref. OB7.2 DR 18285)**

After a WFOA install, the appLauncher does not post the correct AVNFPS menu. This is because appLauncher is now part of an rpm install, which means all files, regardless of whether they've been changed, are installed. This includes a default /awips/fxa/data/appLauncher/AVNFP.conf file. This file is normally overwritten by an avnfps install with the correct menus. However, if a WFOA install occurs without a subsequent AVNFPS install, then the AVNFPS menu will be incorrect. This should be fixed by either removing AVNFP.conf from WFOA (because it will be managed by avnfps from now on), or by removing AVNFP.conf from the appLauncher rpm (so it is never installed over the correct conf file). (DR 18448)

**Problem. IFP halts when a largely out-of-range value was entered. (Ref. OB7.2 DR 18437)**

For example, at location PHIO3, where the value should have been between 8 and 9 feet, a value of 700.34 feet was included and IFP halted -- IFP neither crashed nor continued. In all known previous releases, the IFP would have continued and a forecaster would have removed the value and then reran the segment.

Data files are located on the NHDR system in /fs/hseb/bugs/tt275345 and names nw\_fs5\_12222006.tar.Z. (DR 18438)

## 5.8 Crons and Scripts

**Problem. Beta: run\_ adbinit script not running on RAX.**

The script /rfc\_arc/bin/adbinit/run\_ adbinit which runs two C applications, is generating postgres errors. The first postgres error is 25P01 and because of it, other postgres errors follow. This error occurs when either of the two C program attempts to open a cursor. (DR 19087)

**Problem. Service backup attempts to do the informix/postgres conversion for OB7->OB8 site.**

When importing configuration from an OB7 site, the import\_ dtbase script executes another script called ipco.py. ipco.py was created for the purpose of handling the informix to postgres conversion between OB6 and OB7 sites and should have been removed post-OB7, since all sites are now postgres. ipco.py only checks for whether a the two sites in question are the same OB, or a combination of OB6 and OB7, thus when it encounters a pair of sites that are OB8 and OB7, it falls through to the execution. As mentioned above, the call to this script should be removed. (DR 19054)

**Problem. Beta: Install overwrote CPSBN file /awips/data/acq\_ wmo\_ parms.sbn.local.**

The current version of the OB8.1 installation process is overwriting the /awips/data/acq\_ wmo\_ parms.sbn.local file on both the cpsbn1 and cpsbn2 systems. This has stopped the ingest of data needed for forecasting. The file in question is a local file which should not be overwritten by the OB8.1 install process.

**Background:** The /awips/data/acq\_wmo\_parms.sbn is a national file controlled by the AWIPS program. This file contains a complete list of all centrally produced (HADS) RRS products with EXCLUDE statements excerpted. These EXCLUDE statements filter out all HADS products at the CP. The /awips/data/acq\_wmo\_parms.sbn.local file is a local file, which each individual site is responsible for maintaining. This file contains INCLUDE statements excerpted which are used to override the EXCLUDE statements in the national file. This is done in order for the site to receive those specific HADS products needed for forecasting and prevent the need for each site to edit the national file.

**Workaround.** If a site knows what needs to be done, they can either rebuild the local file or edit the national file. Documentation explaining the purpose of the acq\_wmo\_parms files in the OB8.1 System Managers Manual, does not exist. **(DR 19012)**

### **Problem. OB8.1 Beta: Program ts2oh Aborts During Run (Ref. OB8.2 DR 19065)**

The TS2OH program began normally, but encountered problems while processing MAPX files (ABVC2U.MAPX). The program halted and issued the following statement: "Error in rjulmdy\_1900 1 trying to make MMDDYYYY. Program aborted."

Investigating further it was found that the problem with TS2OH is not within rjulmdy\_1900.c. This routine ONLY returns a negative value if the passed in julian date is not positive. In order to get above error message when running TS2OH, the passed in julian date must not be positive. Looking into the TS2OH source code (ts2oh.c), the error message is generated at line 742. This implies that the parameter jdateend, which is passed into rjulmdy\_1900, must be less than 1.

**Background.** Program TS2OH reads a TSDATA output file and writes a DATACARD formatted file. The program TSDATA is used to read time series data from the fs5files to get data at a shorter data time interval than that available from the USGS. Program TS2OH can also read an existing DATACARD file, merge the data with a TSDATA output and write an updated DATACARD file. **(DR 19007)**

### **Problem. OB8.1: Changes to dx1apps and mhs\_mta heartbeat scripts (dup for 18911)**

The sendmail queue directories at all sites are currently stored on the NAS in the /DS\_Shared file system that is NFS-mounted to dx1 and dx2. The directory /data/mhs is a symbolic link to /DS\_Shared. The sendmail queues are actually in /data/mhs/mqueue and /data/mhs/clientmqueue. These directories have symbolic links of /var/spool/mqueue and /var/spool/clientmqueue. Because NFS does not support native Linux file locking (flock and fcntl), which are required for sendmail, NFS-mounted directories cannot be used for the sendmail queues. The solution is to move the sendmail queues back to their default locations, which are /var/spool/mqueue and /var/spool/clientmqueue. Since those are currently symbolic links, all that needs to happen operationally is to delete the links create directories in their place. Some changes to the install scripts for dx1/2 may be required to deal with the change in the directory structure. The /var filesystem on dx1/2 is actually larger and has more free space than the /DS\_Shared file system on the NAS, so disk space isn't an issue. Another positive side effect is that locally mounted file systems are much faster than remote NFS file systems, so MHS performance would improve marginally, especially for large messages. However, moving the file systems locally would mean

that dx1/2 no longer share the queues, so one node would not know about the other's queues after a failover (either automatic or manual). The solution to this is to copy the queues between the nodes during a start up operation (which would also encompass a swap since a swap is a stop + start).

This affects every site. The impact of not fixing this is that critical warnings could be generated but never distributed to the field under certain circumstances. Appropriate alarms would be generated and manual intervention would resolve this on a case by case basis, but in reality it would likely take a significant amount of time to occur.

An MHS architecture flaw has been discovered during the alpha testing phase of the SMTP deployment that requires a change in the location of the sendmail message queues to prevent sendmail from locking up unexpectedly. The sendmail queues are currently located on an NFS-mounted file system and must be relocated to a locally mounted file system because NFS does not support any of the file locking mechanisms required by sendmail. After the queues are relocated, the heartbeat script for dx1apps and mhs\_mta must be modified to copy the queues between the cluster nodes during a start up to ensure that queued MHS messages, which include critical weather warnings, are not lost. This DR is for modifying the heartbeat scripts for dx1apps and mhs\_mta.

**(DR 18935)**

**Problem. AFC: NotifyTextProd runnin for wrong domain on PX3.**

The NotifyTextProd process was running for the wrong domain. Domain2 runs on DX4. **(DR 18945)**

**Problem. Remove ds1 and ds2 references from ifps install scripts.**

The IFPS installation still references and tries to access the ds1 and ds2 machines. Since they will be decommissioned soon, and there should be no reason for the ifps install to touch the DSs, these references should be removed. The following files were found in the ifps install directory to have a ds1 or ds2 reference in them:

createIFPSPgDb.sql

final\_commands.sh

init\_install

lx\_masterinstall

updateIFPSPgDb.sql. **(DR 18887)**

**Problem. whfs\_crontab\_\*.baseline are incorrect.**

Previously, the whfs\_crontab\_dx1.baseline and whfs\_crontab\_px2.baseline files were incorrect in the OHD workset/release. The dx1 file had an incorrect "run\_vacuum" entry, and the px1 had many Problems and deviates from the changes included in the OB72 file. **(DR 18812)**

**Problem. Add legalArchiver.sh to dx1cron file (Ref. DR18751).**

The legalArchiver.sh script maintains a 30 day archive of Official User Products (OUP) and a 7 day archive of observations (such as ASOS and Upper Air products). In OB7.2 the legalArchiver.sh script is started by the DS1 fxa cron. Before the DS1/DS2 servers are decommissioned the legalArchiver.sh script should be run by one of the Linux server crons. As a suggestion, the legalArchiver.sh script could be added to the dx1cron and it should be executed by the fxa user. **(DR 18786)**

**Problem. whfs\_crontab\_\*.baseline are incorrect.**

Previously, the whfs\_crontab\_dx1.baseline and whfs\_crontab\_px2.baseline files were incorrect in the OHD workset/release. The dx1 file had an incorrect "run\_vacuum" entry, and the px1 had many Problems and deviates from the changes included in the OB72 file. **(DR 18812)**

**Problem. Reconcile OHD zero-byte file.**

Initial check-in of OHD files were found to have been added to Dimensions as NULL files. This was due to an incorrect setting on files of specific types in Dimensions. A reconfiguration of the Dimensions system file default types rectified this issue from future files being added incorrectly.

To provide OHD with CM support for this issue, CM has offered to resolve this issue by removing the initial version of these files in error and then adding them back into the repository in their correct size and type. **(DR 18612)**

**Problem. OB8.1 Build/CM system configuration files have been changed.**

For OB8.1, the clean/build all scripts have been updated to accommodate .Apps\_defaults and various other scripts. This involves changed to the build/clean all scripts as well as Makefiles associated with CM configuration files. The following files are involved:

- dd\_build
- dz\_get\_maint
- dc\_svn
- dc\_clean\_all
- dc\_link\_all
- dc\_build\_all
- dc\_compile\_all
- set\_hydro\_env
- .Apps\_defaults

For OB8.1, the clean/build all scripts have been updated to accommodate the copying of .Apps\_defaults and various other scripts to their appropriate target directories. This involves changes to the build/clean all scripts as well as various other CM configuration files. **(DR 18571)**

**Problem. Modify AWIPS script to add alternate NWSTG host.**

Modify AWIPS script to add alternate NWSTG host. Also new nwstg hosts are to be added to hazcollect script at BNCF.

**(DR 18312)**

## 5.9 Documentation

**Problem. OB8.1: Update documentation links.**

*User's Manual* and *System Manager's Manual* links are displayed on the AWIPS System Monitor page (NCFStatus.html). Right now, the links point to 7.2 documentation. Need for the AWIPS System Manager's Manual link to point to <http://165.92.25.138:85/smmob8.1/toc.htm> and the User Manual link to point to <http://165.92.25.138:85/aumob8.1/toc.htm>.

Links to the *User's* and *System Manager's Manuals* need to be updated for OB8.1

**(DR 18950)**

**Problem. Documentation Folders.**

When the OB8.1 worksets were created, the development documentation folders were incorrectly populated with the OB7.2 documents. If a document version exists in OB7.2 it should be removed from OB8.1. If a newer version of a document has been checked into the 8.1 workset, it should be left. Documents that exist only in 8.1 should be left. This needs to happen prior to the start of Integration Handoff (1/3). Processes will be put in place to remove previous release (software) documentation from new worksets. **(DR 18340)**

## 5.10 ShefDecoder

**Problem. shefdecode DST affected by TZ(ref OB72ER 18661)**

This is only a problem when the TZ variable is not left undefined. If TZ is set to GMT or EST5EDT, then it does convert times for any Daylight Savings Time. **(DR 18684)**

## 5.11 AVNFPS

**Problem. :(OB8.1 PIT) Provide MOS/LAMP category class information.**

Forecaster would like to see what MOS/LAMP categories are in terms of actual visibilities and ceilings and make that easily accessible.

See images /home/oberfiel/tmp/TP\_DR\_18369\_1.jpg and /home/oberfiel/tmp/TP\_DR\_18369\_2.jpg for examples of balloon messages describing MOS categories. **(DR 18369)**

**Problem. :(OB8.1 PIT) Deselect auto-update feature when text fields are in focus.**

Users get errors 'Program bug' when auto-update feature is on and they try to update the text fields directly instead of using the arrow widgets. **(DR 18368)**

**Problem. (OB8.1 PIT) Option to print color fails.**

When using climate tools, unable to print color images of results. **(DR 18366)**

**Problem. (OB8.1 PIT) Build Tweb Contraction Viewer.**

When QC flags for improper contractions, forecaster would like to see what the allowed ICAO/FAA are. See /home/oberfiel/tmp/TP\_DR\_18364.jpg for example of what the contraction viewer should look like. **(DR 18364)**

**Problem. Transmit privilege should be granted on forecaster basis.**

Privilege to queue products for transmission should be granted on a forecaster-by-forecaster basis. **(DR 18297)**

**Problem. Update installation and staging scripts for OB8.1.**

Required updates to script for OB8.1 environment. **(DR 18293)**

**Problem. AvnFPS: TAFGen shall use different criteria when converting GFSLAMP guidance into TAFs.**

GFSLAMP probabilities are defined very differently from the traditional MOS ones. **(DR 18193)**

**Problem. AvnFPS: Missing balloon messages for flight category indicators.**

Clicking on the 'Climate' button AvnWatch GUI does not bring up the new climatology tool GUI. These new tools were introduced in OB7.1. **(DR 18192)**

**Problem. AvnFPS: Fix Climate button to bring up new climate tools introduced in OB7.1.**

Clicking on the 'Climate' button AvnWatch GUI does not bring up the new climatology tool GUI. These new tools were introduced in OB7.1. **(DR 18191)**

## 5.12 Other

### **Problem. DE: Add RUC13 and SST headers to acq\_categories.txt.**

In order for the RUC13 grids and RTG\_SST\_HR grids to be acquired by AWIPS upon arrival over the SBN, their respective WMO header patterns must be added to acq\_categories.txt.

For RUC13, the pattern is L\*D\* KWBG

For RTG\_SST\_HR, the pattern is ETWA88 KWBI

The impact is that the RUC13 grids and SST grids will not be available for use by the WFO's without this change. **(DR 19001)**

### **Problem. AF: Increase timeout value for service backup to complete successfully.**

Specify the timeout value for the grid products transmitted from NCF as part of service backup. **(DR 18910)**

### **Problem. Beta Changes to HLS for compliance to NWS 10-6 01.**

There were changes specified to HLS which were never updated for OB8.1. This was noticed by Matt Belk at BOX testing the 8.1 Beta. 1. Tropical cyclone type needs to include "SUBTROPICAL DEPRESSION" 2. AES Level needs to be "URGENT - IMMEDIATE BROADCAST REQUESTED" 3. The sub-headlines need to be: "New Information", "Areas Affected", "Watches/Warnings", "Storm Information", "Precautionary/Preparedness Actions", "Storm Surge and Storm Tide", "Winds", "Probability of Hurricane/Tropical Storm Conditions", "Inland Flooding", "Tornadoes", "(Substitute appropriate header)", "Next Update". **(DR 19117)**

### **Problem. program Batch Post not working. (Ref. OB8.2 DR 18965).**

Batchpost got memory fault when input file is over 50000 lines.

**Problem:** BATCHPOST was not posting all of the data from the vl2v5.buf file (this file is created when OFSDE pulls the latest data out of the PostgreSQL database) to the fs5files. This program is responsible for moving model data from Postgres over to their hydrologic modeling programs. Usually when another program called OSFDE creates and input file for Batch Post that sometimes that input file can get too large and will create a Memory Fault error in Batch Post.

**Find:** This latest enhancement of program was designed to move less than 50000 lines from vl2v5.buf file to the fa5files. But this time the input file is 150000 lines long, so the program get memory fault and core dump.

**Solution:** In batchpst.f file, Change dimension (50000) to (500000).

There is a workaround for this DR. Use the OB4 version to transfer data into fs5files. The problem left is when there is no data on the top of each hour, it will show the missing data in the fs5files, but the enhancement was let the program to look the valid data in a small window. **(DR 18889)**

**Problem. AF OB8.1 - CRLF issue with smtpaddr.txt file (ref OB7.2 DR 18457)**

The smtpaddr.txt file was examined in the /awips/ops/data/mhs directory. No control ASCII characters were found in the file, which confirmed the file is in the correct format. **(DR 18794)**

**Problem. Red Hat security patches from March 2007 scans.**

RedHat security scans are run quarterly to test for and identify high and medium level vulnerabilities. Then the patches for these vulnerabilities must be found and downloaded from RedHat's web site. **(DR 18734)**

**Problem. BNCF Updates for MHS Servers.**

MHS Servers at BNCF are to be updated to have right configuration for NDFD interface. Also the address handler table needs to be corrected to point to BNCF. **(DR 18703)**

**Problem. GUM --> Products are set to wrong time type (Ref. OB7.2.1 DR 18306).**

The following is from TT 272057:

dx1-gum{fxa}1: textdb -r CFWMY

WHMY40 PGUM 281741

CFWMY

COASTAL HAZARD MESSAGE

NATIONAL WEATHER SERVICE TIYAN GU

400 AM LST WED NOV 29 2006

.OVERVIEW...SURF HAS SUBSIDED BELOW HAZARDOUS LEVELS.

-----  
The following line, LST should be CHST.

400 AM LST WED NOV 29 2006

12/01/2006 17:56:17 GaryC

Bill said this change was supposed to be done in 7.1 but was not. The

POC at the site should be the following:

1st POC AFP: Stephen Ahn (671) 472-0953

2nd POC ITO: Mike Gillen (671) 472-0913

3rd POC ESA: Paul Oudeman (671) 472-0912

However since this has affected several agencies outside of the NWS

Bill Ward at Pacific Region (PBP) would like to be kept up to date on this ticket, either by phone or email.

12/01/2006 19:24:17 GaryC

Placing in ASM/SEC queue.

**(DR 18662)**

**Problem. CM updates to OHD-OB8.1 workset.**

The purpose of this DR is to make some "housekeeping" changes to the OHD-OB8.1 workset for the RAXUM applications.

1. Some raxum files currently in the src directory should be under scripts.
2. Some non-compiled files haven't yet been put into Dimensions; although these files usually don't need to be released to the field every time, they should be version controlled anyway.
3. Update the libxg.a file in the lib directory. **(DR 18603)**

Problem. Archive GUIs do not launch. (Ref 18146)

The Archive GUIs do not launch. Did not get an error, even when executing from the command line. **(DR 18718)**

**Problem. NCEP HPC QPF - contour not displayed at NH scale.**

The test plan for DCS 3380 states the NCEP HPC QPF should be available on the Regional, State(s), and WFO scales. The product is also available at the North American and Northern Hemisphere scales. The product displays correctly on the North American scale, but the contour does not display for the Northern Hemisphere scale. The product should either display correctly or not be available at the Northern Hemisphere and maybe even the North American scales. (DR 18806)

**Problem. Outlook Grids not displayed in sequence on D2D (Ref. 18458). (DR 18672)**

This issue was noted while testing the NCEP/Hydro menu in D2D, using SyAT test case Baseline\_D2D\_NCEP-Hydro\_1.4.1.16\_OB7.2\_V1.

1. When Outlook Grids was selected, it reported 14 frames of data. But they were scattered from the current date (03-Jan-2007) out to May of 2007.
2. The corresponding 'labels' ranged from 30 days to 330 days, but did not seem to correlate to the dates. Also they seemed to be in random order (30 days, 330 days, 300 days, 150 days, 270 days, etc).
3. The graphical data displayed also jumped back and forth, as though it were out of sequence. Could be a display problem, data problem, format problem . . .

**Problem. RAX DB: load\_ingest can't connect to DB (ref. OB7.2 DR\_18200)**

While executing Archive Database Test Plan of DCS 3308 - Fail on Step 32.3 - Executed load\_ingest script & the following error message displays:

*"SQL ERROR: sqlstate: 08001, sqlcode: -402, file: pgload.pgc, line 45 sqlerrm: Could not connect to database adb\_ob7krf in line 44." Because the database name is hard coded in the script.*

**(DR 18517)**

**Problem. RAX ofsshef is incorrect version (Ref: OB7.2 DR\_18360). (Ref 18146)**

In OB7.2 the ofsshef executable was checked into the baseline after the OB8.1 source had been uploaded. This later version of ofsshef changes the 'future' SHEF dates if it is the end of the month. The OB8.1 version needs to be updated to match.

In OB7.2 the ofsshef executable was checked into the baseline after the OB8.1 source had been uploaded. This later version of ofsshef changes the 'future' SHEF dates if it is the end of the month. The OB8.1 version needs to be updated to match. **(DR 18512)**

**Problem. Comment in scour.conf is wrong (Ref 18146)**

The proper edit was made for DR 17620, but the comment was not changed. 17620 changed scour to remove logs older than two days old and the active line was correctly changed, but the comment for that line was not. This is a very minor issue. **(DR 18531)**

**Problem. Cutover\_mhs script fails in OB7.2.**

The cutover\_mhs script points to the DS when it makes it NIS changes. However in OB7.2 the NIS has been moved the DXs, so the script fails when run at OB7.2. This DR is slated for the GFE-ISC release, but care must be made that the fixed file is only installed at OB7.2 sites. And if the install is done before the MHS cutover, care must be made that any sites installing OB7.2 must get the fixed script. The script could be modified so it worked both at OB7.1 and OB7.2 sites, but this would take longer and introduce a little more risk. **(DR 18580)**

**Problem. ESP aborting run (Ref. OB8.1 DR 18520)**

When attempting to run the ESP (Extended Streamflow Prediction) program, the program suddenly ABORTS after reading all of the input data and running the first Forecast Group. ESP is a module within the FCST executable. The HCL input deck (a file that contains a job control like language that is used within NWSRFS) has not been changed in two +years.

The input deck can be run from an OB4 version of fcst. However, carryover cannot be saved from this older version, but it (carryover) can be saved in OB7.2Beta. **(DR 18640)**

**Problem. Problems with NWSRFS: ERRORS in REORDER. (DR 18073)**

LMRFC is currently generating an ERROR during the compression of the PreProcessor Database (PPDB) when running REORDER.

Root Cause: Parameter LWORK in the main routine is too small.

Proposed Solution: Change LWORK from 12500 to 25000.

**Problem. IFP crashes when calculating tidal balance in... (Ref OB7.2 DR 18440)**

IFP and OFS (the batch version within NWSRFS) both crash when calculating the Astoria tidal balance in segment COQO3 in the Coquille Forecast Group. COQO3 is a FLDWAV segment. Both programs core dump after partially completing the tidal balances calculations. When the IFP crashes, the first item that is written to the screen is, "An unexpected error has been detected by HotSpot Virtual Machine."

The fs5files files are located on NHDR in the /fs/hseb/bugs/tt275345 directory and are named nw\_fs5\_12222006.tar.Z. **(DR 18473)**

**Problem. Verification Apps Ignoring SHEF Qualifier Codes (Ref OB7.2 DR 18419)**

When pairing observed and forecast values, the application does not handle the SHEF qualifier codes properly. When the qualifier coded for an observed value is B, E or R, the value should not be used. Currently, these values are being included in the national river statistics. **(DR 18470)**

**Problem. Batchpost not posting all data to the fs5files (Ref. OB7.2.1 DR 18515)**

At the RFCs the OFSDE/BATCHPOST process moves data from the IHFS database to the NWSRFS fs5files. On Saturday (01/13/2007) PTR discovered that the latest BATCHPOST program was not posting all of the data from the vl2v5.buf file (this file is created when OFSDE pulls the latest data out of the PostgreSQL database) to the fs5files. Most significantly, none of the MAT data was being transferred.

They have since reinstalled an older version of BATCHPOST and data are successfully transferring from the IHFS database to the fs5files. **(DR 18639)**

**Problem. DUMPTS command halts with a FORTRAN Error.**

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. **(DR 17865)**

**Problem. Delete "satSpecificInfo.txt" from baseline. (ref. 7.2 DR-17786)**

The file ".../D-2D/src/localization/nationalData/satSpecificInfo.txt" should have been removed from the baseline as a part of the fix for OB-7.2 DR 17786. It was not. The file must be removed. Otherwise, installation will overwrite the correct file (downloaded as a part of the NDM file set) with the out-of-date version in the baseline. This will cause satellite imagery to be un-monitorable to the Fog Monitor, or will require sites to do extra post-install steps manually. (DR 18636)

**Problem. AWIPS Data Monitor indicating 100% CPU usage on dx2, dx4, px2 (ref DR18464).**

The site reported that the data monitor is indicating that DX2, DX4, and PX2 are all running at 100%. The site then ran "top" command and found the servers are actually running fine. The faulty indicator appears to be the data monitor problem. (DR 18643)

**Problem. AX Program Not Able to Find rfc.ob7.2.jar File (Ref OB7.2.1 DR 18465)**

The script /rfc\_arc/verify/scripts/ivpcronsetup is used to set up the environment for a cron run of ivpbatch, and is executed whenever the '-c' option is used in ivpbatch. In OB7.2 Beta, "ivpbatch -c" will not successfully execute because it cannot find the jar file rfc.ob7.2.jar. The generated output refers to not being able to find IVPBatchProcessor.

This script is missing the line...

```
export apps_dir=/awips/hydroapps/lx
```

The above export line needs to be inserted immediately after the lines

```
"else"  
"# Setup for a run in the field."
```

(DR 18644)

**Problem. Localization option for warngen to use an area rather than a point is broken (Ref. OB7.2.1 DR 18754, OB7.1 DR 16923).**

The capability stated in the title and implemented in DR 16923 was not carried to OB7.2 from OB7.1.

Operation impact: More time will be needed to prepare warning products.

Workaround: the user has to type the areas of cities in text window. (DR 18757)

**Problem. Beta DataView Drop Down Menus not Working (Ref. OB7.2.1 DR 18461).**

There is a problem with running the DataView GUI on the AX. The arrow keys that initiate dropdown menu options for PE, Duration Type/Source, etc. do not work in the OB7.2 Beta version. These dropdown menu options were working in the OB7.1 version. (DR 18645)

**Problem. SREF:acq\_categories.txt does not contain WMO header pattern (Ref DR 18660). (DR 18689)**

SREF data is flowing to the TNCF, but is not storing. The acqserver does not recognize it and drops it. This is due to the fact that in acq\_categories.txt, the pattern for the SREF WMO headers is not fully defined. The headers are of the form L\*R\*[0-9][0-9] KWBL. The 'L' in 'KWBL' is not defined in acq\_categories.txt

**Problem. Move GOES ImagerInfo.txt from baseline to NDM.**

The file `.../D-2D/src/localization/nationalData/GOESImagerInfo.txt` may need to be updated whenever a newer-generation GOES satellite replaces an older-generation satellite. Such replacements happen independent of AWIPS releases. This file therefore needs to be added to the NDM file set controlled by Fran Curnow, and removed from the AWIPS baseline in Dimensions. Note that the file (with appropriate instructions) must be added to the NDM first. Only when that is done can the file be removed from the baseline in Dimensions.

This problem was found during research for OB-8.1 OSIP project 06-054 (Transition to GOES-N).

**(DR 18335)****Problem. Climate F6 product won't run...(Ref. OB7.1.1 DR 18095, OB7.2 DR 18422).**

The f6 product will not run correctly from the command line or the cron. This is due to the fact that when passing the parameter 0 to the application, it fails when going to build\_f6. **(DR 18423)**

**Problem. Service backup cleanup not removing databases (Ref. OB7.2 DR 18404)**

Update cleanup script to correctly delete databases; replace the command bdf with df. **(DR 18411)**

**Problem. routerStoreNetcdf locks up (Ref. OB7.2 DR 18331) [This is an OB8.1 merge of OB7.2 DR 18331.]**

VUY reported that routerStoreNetcdf periodically stops storing data. The stoppage consistently occurred when "SCO.latest.dat" was ingested.

Initial analysis indicates that this is a memory corruption error introduced in OB7.2. This problem can prevent sites from using any kind of LDAD data. **(DR 18371)**

**Problem. RF OB6 XNAV does not display segments.**

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, xnav\_seg\_type =1 when you click on a location the hydrograph will not show simulations into the future. (r27-35). **(DR 17856)**

**Problem. RF OB6 ESPADP batchbuilder scripts do not generate all graphical products.**

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). (DR 17855)

**Problem. RF OB6 PPINIT Doesn't process @Define Old Station correctly.**

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 updated successfully; however, 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). (DR 17852)

**Problem. HazCollect needs to handle duplicate products in the Text DB (Ref DR 18714)**

The HazCollect software does not handle duplicate products stored in the Text Database correctly. The logic for handling products with the same PIL, but different WMO headers does not work if duplicate products are encountered. The HazCollect products are all warnings, and the Text Database software should filter out any duplicates. However, HazCollect should handle the products correctly, in case duplicates get into the database. (DR 18730)

**Problem. The HazCollect software is sending improperly formatted products to the NWWS uplink sites.**

Products that are sent to the NWWS must have the format: 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. (DR 17847)

**Problem. RF OB6 XSETS fails with MALLOC\_CHECK\_=0.**

When NCF personnel added the Environment Variable MALLOC\_CHECK\_=0, the XSETS application generated a memory fault when it tried to allocate additional memory. (DR 17725)

## 5.13 SCAN

**Problem. Unwarned County and warning by polygon.**

SCAN's Unwarned County functionality is still based on warnings by county. When operational warnings change to polygon-based warnings, SCAN's Unwarned County function was broken. This was fixed. (DR 18699)

**Problem. SCAN's use of a LAMP station file must change.**

SCAN uses the ICADICT.tcl LAMP file, which lists point locations such as airports, sensing stations, etc. SCAN uses this for its Local Site Threat function. In OB8.1, LAMP will be going away, so we either need to find a better source for such location info or move the file into the WFOA workset (for SCAN to use). We'd like to find a better source, but the short-term solution may be just to move that file into the WFOA workset. This DR should be accepted into OB8.1.

**(DR 18186)**

**Problem. SCAN Cell Table rank: need toggle.**

Currently, the direction in which the SCAN Cell Table ranks is dependent upon the attribute. For example: Ranking according to the storm cell attribute dbzHt is ascending (based on the config file). We need to make it so the direction of ranking will toggle. First click for rerank means use the config direction. Second click means reverse what was used previously. Third click: again, reverse what was used previously. This was a suggested enhancement from the field. **(DR 17783)**

## 5.14 LAMP

**Problem. LAMP cron must be stopped.**

NGM-LAMP will no longer be part of the baseline starting in OB8.1. This means that the LAMP cron that runs on the PX's at all CONUS sites must be stopped. **(DR 18521)**

**Problem. LAMP references from purging**

For DCS3376 in OB8.1, the operational directory /data/fxa/Grid/TDL/netCDF/LAMP\_Grid will no longer exist. The file gridPurgeInfo.txt lists entries for purging /data/fxa/Grid/TDL/netCDF/LAMP\_Grid/LAMP and /data/fxa/Grid/TDL/netCDF/LAMP\_Grid/QPF. These entries can be removed because the directories they are meant to purge will not exist. The error from this is the listing of the keys from these entries as unresolvable in the purge log, but this causes no impact on functioning. **(DR 18519)**

**Problem. LAMP CDL files no longer needed.**

Because LAMP will no longer run and create gridded output in AWIPS, the LAMP cdl files in /awips/fxa/data are no longer necessary. These should be removed by the install process. The pertinent files are lampQPFGrid\*.cdl and lampGrid\*.cdl.

In addition, lamp files in the /awips/fxa/bin area need to be removed from all platforms during install. DX1 removal was handled by changes to ADAPT\_install\_sh as part of DCS3376, but the other hosts need to be handled. In /awips/fxa/bin, the pertinent files are getLampGrid, lampTimeSeries, lampTimeSeriesWish, makeLampTestBulletin, getGridQPF and convertToPlot. **(DR 18442)**

**Problem. Remove LAMPsetup use from readenv.[c]sh.**

The readenv.csh and readenv.sh files must be changed to remove reliance on the existence of LAMPsetup file to determine whether the environment is being set for a WFO or an RFC. Also, Climate and IFPS setting of LAMPSITE from LAMPsetup must be reworked into the logic of Climate and IFPS. The LAMPsetup file will no longer be installed starting in OB8.1. **(DR 18373)**

## 6.0 RELEASE OB7.2.1

### **Problem. OB7.2.1: Localization opt. for WarnGen to use an urban area (Ref OB8.1 DR 18757, OB7.1 DR 16923)**

At OUN, they've installed OB6 and have found that the option in CitiesInfo.txt to have WarnGen use the urban area rather than a point (=) isn't working. Here's the feature they're trying to use:

From va\_driver.html:

The '?', if present, is the character '=', '+', or '~', and means that this city is too large in area to be considered a point. '+' means use an area weighted centroid, '~' means use the point furthest from any border as the centroid, and '=' means use the supplied point as the centroid. The centroid is a point used to calculate what is north, south, east, or west in the city.

The user at OUN relocated with flag wwa, then when he uses WarnGen and puts the point in far southeast Oklahoma City where he includes part of the city area but not the point downtown that defines the city, it doesn't include any of Oklahoma City. This just started after OB6.

More detail from the NCF:

Basically, after setting up the CitiesInfo.txt the way it should look and running the proper localizations, OUN would bring up D2D. When they pulled up WarnGen and put the point into the Oklahoma City area and tried to create text, instead of reading "A new cell has been identified in Oklahoma City," it would read something like "A new cell has been identified 4 miles northwest of so-and-so." He also mentioned it not showing up in the wwa\_zones or wwa\_counties output files.

From Jim Ramer:

This is the result of a bug that was introduced on March 11 of last year. The offending code was checked in against DR14548 (work to include a new cities shape file).

Only offices using this feature will be affected. **(DR 18754)**

### **Problem. Guam HWR TZ shows as GST not as CHST**

In the HWR GUI when GUMRWRGUM and Time Zone "Guam" are selected, the text product shows GST; it should show CHST. **(DR 18749)**

### **Problem. OB7.2.1 NWSRFS Executables do not recognize new DST Definition (Ref DR 18659)**

A number of the executables within NWSRFS do not properly recognize the new Daylight Saving Time definition. This will lead to incorrect local time stamps on product headers and potentially to incorrect conversions to and from local time. **(DR 18737)**

**Problem. SREF: Model does not store at OCONUS WFOs (Ref DR 18660)**

When testing DR 18660 on TBW4 (AFC), I found the gridSourceTable.txt was not updated properly (first column was listed as "x@x1" and not "1" for AK216) and there was only the CONUS212 SREF directory and template in \$FXA\_DATA (none for AK216). These issues need to be resolved for OCONUS offices to store the SREF data. Please note that this DR is for AK216 and PR243 SREF model data not storing. **(DR 18731)**

**Problem. Bug in baseline Hazard\_WCN: Definition["purgeTime"] misspelled**

There is a spelling error in the baseline Hazard\_WCN. Definition ["purgeTime"] = 12 is misspelled as "purgeTme". This was causing us to have a product exp time (segment) of 8 hours for a 12-hour watch (for some reason defaulted to 8 hours, which is used in some other products). And yes, SPC does issue watches longer than 8 hours. I overrode it locally (Hazard\_WCN\_Local) since the Weather Channel apparently still keys on this coding instead of the VTEC coding. **(DR 18728)**

**Problem. NWEM formatter change prevents hazCollect products from going out on the CRS**

The NWEM formatter is adding '/home/CRS/NWEM/' to the hazCollect product file path, so the files can't be found.

Log message:

```
sed: can't read
/home/CRS/NWEM//data/fxa/hazCollect/KSTOADRSTO.20070302_205258: No
such file or directory
info: Subscript out of range.
```

The result is that no hazCollect products will be sent to the CRS. **(DR 18723)**

**Problem. Have HazCollect handle duplicate products in the Text DB (Ref DR 16861).**

The HazCollect software does not handle duplicate products stored in the Text Database correctly. The logic for handling products with the same PIL, but different WMO headers does not work if duplicate products are encountered. The HazCollect products are all warnings, and the Text Database software should filter out any duplicates. However, HazCollect should handle the products correctly, in case duplicates get into the database. **(DR 18714)**

**Problem: Installation Scripts**

This DR is for the purpose of checking in the OB7.2.1 installation scripts. **(DR 18692)**

**Problem. OB7.2.1:SREF:acq\_categories.txt does not contain WMO header pattern (Ref DR 18689)**

SREF data is flowing to the TNCF, but is not storing. The acqserver does not recognize it and drops it. This is due to the fact that in acq\_categories.txt, the pattern for the SREF WMO headers is not fully defined. The headers are of the form L\*R\*[0-9][0-9] KWBL. The 'L' in 'KWBL' is not defined in acq\_categories.txt.

Additionally, for Alaska and NE Pacific, the form of the headers is L\*V\*[0-9][0-9] KWBL and L\*X\*[0-9][0-9] KWBL, respectively. The 'V' and 'X' must be added to the third position of the pattern in acq\_categories.txt in order to acquire these OCONUS data sets. **(DR 18660)**

**Problem. MAKE changes to accommodate GUAM time zone name change (DR 18635)**

MAKE changes to accommodate GUAM time zone name change.

**Problem. WarnGen AUX\_INFO errors in the Dam Break Flash Flood Warning template**

In the AUX\_INFO section of the Dam Break Flash Flood Warning template (wwa\_dam\_break.preWWA), the wwa\_type (WWA product type) should be 2 for warning instead of 4 for statement.

Current AUX\_INFO section:

-----

<AUX\_INFO |geo\_descriptor=2 |wwa\_type=4

Corrected AUX\_INFO section:

-----

<AUX\_INFO |geo\_descriptor=2 |wwa\_type=2

**(DR 18611)**

**Problem. WarnGen: template name misspelled in Flood advisory statement template**

The template name at the top of the wwa\_flood\_adv\_sta.preWWA template is Areal Flood *Avisory* Followup. This should be Areal Flood Advisory Followup (note the misspelling of "Advisory"). **(DR 18589)**

**Problem. WarnGen: Invalid variable in SMW followup template**

There are more than a dozen instances of [\$\$ACT\_VAL.eq.CON] that should be [\$\$ACT\_VAL!.eq.CON] in the wwa\_mar\_wx\_sta.preWWA template. Note the "!" was left off the end of the variable name. As a result, this condition will never be met since it is not a proper variable name in the WarnGen template world. **(DR 18587)**

**Problem. WarnGen: Invalid variable in Flood advisory statement template**

There is one instance of [\$\$\$State.eq.ON] that should be [\$\$\$State!.eq.ON] in the wwa\_flood\_adv\_sta.preWWA template. Note the "!" was left off the end of the variable name. As a result, this condition will never be met since it is not a proper variable name in the WarnGen template world. (DR 18586)

**Problem. WarnGen: Invalid variable in Flood advisory template**

There is one instance of [\$\$\$State.eq.ON] that should be [\$\$\$State!.eq.ON] in the wwa\_flood\_adv.preWWA template. Note the "!" was left off the end of the variable name. As a result, this condition will never be met since it is not a proper variable name in the WarnGen template world. (DR 18585)

**Problem. WarnGen: Invalid variable in FFS template**

There is one instance of [\$\$ACT\_VAL.eq.CON] that should be [\$\$ACT\_VAL!.eq.CON] in the wwa\_fflood\_sta.preWWA template. Note the "!" was left off the end of the \$\$ACT\_VAL! variable name. As a result, this condition will never be met since it is not a proper variable name in the WarnGen template world. (DR 18584)

**Problem. WarnGen errors when switching between one cell and line of storms (Ref DR 18072)**

WarnGen can create erroneous products when the forecaster changes between one cell and line of storms. WFO PHI opened TT 264006 on SVR ETN 0269 on 9/24/06. When switching between one cell and a line of storms, if the storm centroid is moved before using "one storm" or "line of storms," WarnGen creates an erroneous product. If "one storm" or "line of storms" is used before moving, the centroid WarnGen works fine. A workaround could be to use "restart," but operational folks think this is not a sufficient workaround.

Details of switching from one cell to line of storms:

1. Issue an SVR for county A, single cell
2. Prepare a new SVR for a line of storms, county B:
  - a. Move "drag me to storm" to county B.
  - b. Don't use "restart."
  - c. Press "line of storms" (the old single cell polygon remains on D2D).
  - d. Use "create text."
3. WarnGen creates a new SVR for county B using the county A info in bullet one, bullet four, and lat/lon coordinates – but describes the line of storms locations for county B in the third bullet. The forecaster could have seen that the polygon and the line of storms track did not match up, but in the heat of battle, this is not a good situation for WarnGen to allow. Don't know if WarnGen gave a QC error at PHI; DID NOT receive an error

testing this in practice mode. If you press "line of storms" before moving "drag me to storm," the box moves to the new line location and the correct SVR is created.

Details of switching from line of storms to one cell:

1. Created line of storms SVR for county A
2. Prepare a new SVR for a single cell, county B:
  - a. Move "drag me to storm" to county B.
  - b. Don't use "restart."
  - c. Press "line of storms" (the old single cell polygon remains on D2D).
  - d. Use "create text."
3. WarnGen assumes you want another line of storms and attempts to drag the entire polygon which can result in a really strange polygon. Please see Mike Rega for the rest of the desc. **(DR 18561)**

#### **Problem. Change CHST for Guam for HP-UX systems**

Guam changed its Daylight Saving Time and acronym.

There is a need for new LS1,LS2 and DS1 tztab, as HP-10.20 doesn't have this information

Correction for Typos in previous 2007 DST Fix. **(DR 18560)**

#### **Problem. ESP aborting run (Ref. OB8.1 DR 18640)**

When attempting to run the ESP (Extended Streamflow Prediction) program, the program suddenly ABORTS after reading all of the input data and running the first Forecast Group. ESP is a module within the FCST executable. The HCL input deck (a file that contains a job control-like language that is used within NWSRFS) has not been changed in two+ years.

The input deck can be run from an OB4 version of fcst. However, carryover cannot be saved from this older version, but it (carryover) can be saved in OB7.2Beta. **(DR 18520)**

#### **Problem. GFE: New tropical concept of operations very confusing**

During the 7.2 SwIT test, this DR was discovered, but was written up as 17894. That DR was cancelled and this DR better describes the real issue. During SwIT, we ran a test to simulate tropical operations with the new CONOPS. The result was an overlap of hazards and confusion. Later it was realized that the map background for the MakeHazard tool allows the WFOs to edit the zones for which TPC alone has responsibility.

So, working with Rici Yu and HGX forecaster Matt Moreland, we made changes to the MakeHazard Procedure (which reside in /tmp on nmtw), which will make the process more straightforward. These changes have been briefed to OS21.

Without this change, the WFOs will have trouble knowing what can and cannot be edited during hectic tropical events. With the changes to the process this season and the visibility of the program, this fix needs to be in place at all coastal offices NLT 1 APR 2007. **(DR 18518)**

**Problem. Batchpost not posting all data to the fs5files (Ref. OB8.1 DR 18639)**

At the RFCs the OFSDE/BATCHPOST process moves data from the IHFS database to the NWSRFS fs5files. On Saturday (01/13/2007) PTR discovered that the latest BATCHPOST program was not posting all of the data from the vl2v5.buf file (this file is created when OFSDE pulls the latest data out of the PostgreSQL database) to the fs5files. Most significantly, none of the MAT data was being transferred.

They have since reinstalled an older version of BATCHPOST and data is successfully transferring from the IHFS database to the fs5files. **(DR 18515)**

**Problem. Local Warning Display: Can't display new EWW product**

The EWW does not display on the local warning display under the NCEP/Hydro menu. This problem is fixed in 8.1, but the product becomes operational in 7.2. The 47 sites allowed to issue it will not be able to track it via AWIPS. **(DR 18509)**

**Problem. SNOW: Mesonet hourly precip error. (Ref. OB8.1 DR 18633)**

The mesonet hourly precip data was being multiplied by a factor of 1000 in the SNOW table. This is almost certainly a units problem, with METARs data being recording in AWIPS in meters and mesonets in millimeters. **(DR 18497)**

**Problem. AvnFPS: OB7.2.1 Fixes to correct annoying changes in OB7.1**

Since deployment, users have found several undocumented changes to established behavior (prior to 3.2). These changes are unjustified.

1. Scrambled ordering of TAFs/observations in TWEB Editor in attempt to remove any duplicates
2. Viewing All Metars results in ordering all metars according to time. The observations should be ordered by site first, then time. **(DR 18476)**

**Problem. OB7.2.1 Purge "-i" option not working correctly (ref OB7.2 DR 18466)**

From Mike Moss email, 12-28-06:

Below are two encapsulations of the directories where the purge algorithm was changed to purgeProcess in OB7.2. The first only shows those directories that have the "i-switch" set, the second is the complete list of added products in /data/fxa/nationalData/purgeInfo.txt. There are two "i-switch" additions to the file /data/fxa/nationalData/gridPurgeInfo.txt. There were also some changes to satPurgeInfo.txt but none of the "i-switch" variety. **(DR 18467)**

**Problem. OB7.2 Beta: AX Program not able to find rfc.ob7.2.jar File (Ref. OB8.1 DR 18644)**

The script /rfc\_arc/verify/scripts/ivpcronsetup is used to set up the environment for a cron run of ivpbatch, and is executed whenever the '-c' option is used in ivpbatch. In OB7.2 Beta, "ivpbatch -c" will not successfully execute because it cannot find the jar file rfc.ob7.2.jar. The generated output refers to not being able to find IVPBatchProcessor.

This script is missing the line...

```
export apps_dir=/awips/hydroapps/lx
```

The above export line needs to be inserted immediately after the lines

```
"else"
```

```
"# Setup for a run in the field." (DR 18465)
```

**Problem. OB7.2: AWIPS Data Monitor indicating 100% CPU usage on dx2, dx4, px2**

The site reported the data monitor is indicating that DX2, DX4, and PX2 are all running at 100%. The site then ran "top" command and found the servers are actually running fine. The faulty indicator appears to be the data monitor problem. (DR 18464)

**Problem. OB7.2 Beta DatView Query Returns on Processed Data are Garbled**

When viewing the return from a query in DatView, on the AX system, the data in the "Obstime" field is garbled. This occurs when processed data with a time interval of "Other" is retrieved from the PEDPSEP Table. The "Edit" button is grayed out, which might be a result of the "Obstime" data being garbled. (DR 18462)

**Problem. OB7.2 Beta DatView dropdown menus not working (Ref. OB8.1 DR 18645)**

There is a problem with running the DatView GUI on the AX. The arrow keys which initiate drop down menu options for PE, Duration Type/Source, etc. do not work in the OB7.2 Beta version. These dropdown menu options were working in the OB7.1 version. (DR 18461)

**Problem. Outlook Grids not displayed in sequence on D2D**

This issue was noted while testing the NCEP/Hydro menu in D2D, using SyAT test case Baseline\_D2D\_NCEP-Hydro\_1.4.1.16\_OB7.2\_V1.

1. When Outlook Grids was selected, it reported 14 frames of data. But they were scattered from the current date (03-Jan-2007) out to May of 2007.
2. The corresponding 'labels' ranged from 30 days to 330 days, but did not seem to correlate to the dates. Also they seemed to be in random order (30 days, 330 days, 300 days, 150 days, 270 days, etc.).
3. The graphical data displayed also jumped back and forth, as though it were out of

sequence. Could be a display problem, data problem, format problem. **(DR 18458)**

### **Problem. OB7.2 Need to define location-specific look forward hours for RiverPro**

In order to better support the operational implementation of the Hydrologic VTEC (H-VTEC) format in Flood Warning and Flood Statement products produced by Riverpro, sites need to be able to define a specific set of hours in which to look forward into the future for river forecast information. Right now, the entire forecast time series is considered. When there is significant fluctuation in the river forecast, to the extent that the river rises above and falls below flood stage more than once during a forecast period, RiverPro may not always choose the best parameters for the H-VTEC codes. When this happens, the user must manually intervene and edit the H-VTEC code. As a result, FL and FLS products are being issued with incorrect, invalid, and inconsistent H-VTEC parameters. Additionally, the words in the product often are in conflict with the H-VTEC coding. Allowing the users to specify a period of time in which to look forward for forecast data will enable the application to perform better and result in less manual intervention.

This issue was raised at several of the WFOs that are participating in the H-VTEC Risk Reduction activity. These offices have implemented ATAN 842, which is essentially the OB7.2 version of Riverpro. **(DR 18451)**

### **Problem. GFE: Problem with save/load draft of AFD product**

An FC who writes a new AFD will hit the "save draft" button. Later, if a second FC tries to "load draft," this error message will (usually) appear: "No previous draft for CARAFDCAR." If the second FC brings up an AFD, the first FC can hit "save draft," then the second FC will be able to load the current draft without incident.

This occurs only with the AFD. The buttons work correctly for all other products, e.g., WCN.  
OB7.2.1. **(DR 18441)**

### **Problem. Guardian Monitor button bind conflict**

Currently, a Button-1 click on a Monitor Button in Guardian will launch its associated exec (if there is one defined), and a Double-Button-1 click will clear the Monitor button. This was indeed tested a while ago and passed, but now it seems that when desiring a Double-Button-1, we end up with both actions, that is, the exec will launch AND the button will clear. This is not desired. We need to come up with a different way to clear the Monitor Buttons (and apply it to the Text Sections as well, while we're at it). **(DR 18413)**

### **Problem. Hazcollect NWEM Formatter: Lockout Time**

When sending a National message, sites that have triggers set up with 4 or more messages will NOT send all messages due to the Lockout setting time. The lockout time is currently set to 1 minute. The lockout time needs to be set to 2 minutes in the NWEM Formatter. **(DR 18398)**

**Problem. asyncScheduler quits after 10 days**

asyncScheduler spawns a separate commsline-controlling child process (asyncLine) for each entry in aps\_line.tbl. asyncScheduler will restart an unsolicited return of a child up to 10 times, after which it assumes a problem with the line and/or line configuration of the port to which the child is assigned, and removes the commsLine from its tables. Once there are no more commsLines to manage, asyncScheduler quits.

Each day, a breakLog signal is delivered to asyncLine, which is usually sitting in a select() system call waiting for I/O. Normally, asyncLine is broken out of this call and returned a -1 with errno set to EINTR. But starting with OB7.1, errno is not set, and asyncLine, unable to decipher the reason for the failed call, quits. **(DR 18395)**

**Problem. Hazcollect NWEM Formatter: Issue Time**

When sending a National message, the Issue Time uses the Eastern Standard time. Because the Issue time does not include time zones (when transmitted by the CRS) in the message, it is confusing to sites that are not located in the Eastern Standard Time zone. This is a configuration change in the NWEM formatter. Changing "Y" to "N" in the NWEM configuration table is the only change needed. No software change is necessary. **(DR 18394)**

**Problem. User password change fails over NIS from lx/xt console (See Section 1 for more info)**

There is a bug in the password change mechanism on OB7.2 systems when a user is asked to change his or her password on an lx/xt console due to password expiration. This occurs with any account handled by NIS (all user accounts).

After entering the new password on the console, the user is logged into the lx/xt, but the new password is not changed on the NIS master server on dx1. The workaround is for the user to open a terminal window, enter "ypasswd" at the command prompt, and then enter the old and new passwords. This will set the new password correctly on the dx1 NIS master server.

The actual (permanent) fix is to make a small change to the password module in the PAM file system-auth on all lx's/xt's so that passwords are communicated over NIS.

Preliminary tests of the permanent fix look good, but more testing is needed. In the meantime, OB7.2 sites should follow the above workaround (use ypasswd from a terminal window). **(DR 18393)**

**Problem. SNOW: Trend graphic Wind Chill value does not match station table.**

The SNOW table has correct data for "Wind Chill" attribute, but it is sending incorrect data to the trend sets. When clicking on the "Wind Chill" cell that its value is "R -1" in the station table, the value and color in the trend graphic did not match it in the station table. OB7.2.1. **(DR 18391)**

**Problem. FFMP OB7.2: reg\_county GELT contains marine zones (Ref. OB8.1 DR 18631)**

During OB8.1 PIT, we discovered strange marine zone aggregates in the county listing in the FFMP Basin Table. The behavior of these entities is not as it should be, yielding tcl errors. We tracked it back to DR 16231 (SAW/WOU issues), which added marine zones to the reg\_county GELT! After speaking with the developer who fixed DR 16231 (Jim Ramer), we understand how that fix was allowed due to the late nature of the issue and the ease of the fix (no compiled code change); however, marine zones really do not belong in a county GELT, and the result is an FFMP that provides elements that can cause problems in FFMP. Now, you might think, "How in the heck would a small basin get geographically associated to an open-water marine zone?" I believe it has to do with edge conditions and resolution differences. Still, even if we changed the resolution of the reg\_county GELT, I do not believe we'd eliminate the problem – only reduce it. I suggest that marine zones be removed from the reg\_county GELT and have actual marine GELTs be used by DR 16231, which will require code change, test, and re-compile. **(DR 18390)**

**Note:** This was discovered during OB8.1 PIT, but since DR 16231 is an OB7.2 DR, this issue is an OB7.2 issue!! OB7.2.1

**Problem. GUM: OB7.1: Products set to wrong time type**

```
dx1-gum{fxa}1: textdb -r CFWMY
```

```
WHMY40 PGUM 281741
```

```
CFWMY
```

```
COASTAL HAZARD MESSAGE
```

```
NATIONAL WEATHER SERVICE TIYAN GU
```

```
400 AM LST WED NOV 29 2006
```

```
.OVERVIEW...SURF HAS SUBSIDED BELOW HAZARDOUS LEVELS.
```

```
-----
```

The following line, LST should be CHST.

```
400 AM LST WED NOV 29 2006.
```

**(DR 18306)**

**Problem. Unable to issue FLS in WarnGen**

On 10/15/06, when LUB selected the FLS statement, WarnGen ignored the request and reverted back to the default SVR. Purging one FLS product from the fxatext database resolved the immediate operational problem. If the problem was not fixed, the WFO would need to manually create the FLS statement.

LUB said that the FLS causing the problem was created in RiverPro with word wrap off. Jim Ramer was able to duplicate the problem and on 11/7 created a "very low risk" algorithm change

in method LocalWarningInfo::dbTextToTextSeq() and an even lower-risk buffer size change that could be implemented in a maintenance release. Jim's summary:

This problem is similar to an error documented in DR 17987 (RLX on 9/1/06). The RLX case could not be reproduced by GSD using the RLX environment and the DR was closed. Jim Ramer said that the implementation of hydrologic VTEC would not necessarily resolve the problem (caused when WarnGen uses complex logic to parse fxatext products whereas VTEC will provide info gathered by parsing the fxatext products.). **(DR 18241)**

#### **Problem. Unreadable ESPADP Datacard format**

When the sequence number exceeds 4 digits, the time series becomes unreadable. When the sequence number becomes greater than or equal to 10,000 the sequence number encroaches into the value space. **(DR 18224)**

#### **Problem. IFPS Service Backup - localMapFiles.py file deleted upon service backup exit and cleanup**

Upon exit and cleanup from IFPS service backup, the /awips/GFESuite/scvbu/etc/SITE directory gets deleted, thus deleting the localMapFiles.py file. If an office needs to reenter backup mode, the /awips/GFESuite/scvbu/etc/SITE/localMapFiles.py file will need to be re-created. The site will get shapefile errors upon startup of the backup ifpServer if they do not recreate the localMapFiles.py file.

The deletion of the localMapFiles.py file is also a problem for installations. Each install, the localMapFiles.py file needs to exist so installation does not fail.

The current way this is working is by design, but the current design causes problems. The solution should take into account the design of service backup where sites may need to back up the same site one time or another site the next. It should also account for the possibility of the ifpServer failure during backup and also take into account installation requirements. A possible design is to save off everything in etc/SITE to a special place when entering service backup, and then deleting the contents of etc/SITE followed by restoring the saved stuff when exiting service backup. **(DR 18097)**

#### **Problem. OB7.2 WarnGen: A.FA followup will add mistakenly adjacent CATs (Ref OB8.1 DR 18677)**

On the Areal Flood Advisory Product if "arroyo and small stream" is selected and then select other CATs "ice jam" and "urban flooding" when creating the followup, adjacent CATs will be selected automatically such as "ice jam and rain" and "rural flooding/small streams".

This error only happens when "arroyo and small stream" is selected which only appears on the Areal Flood Advisory. **(DR 18090)**

**Problem. Some types of HazCollect messages need to be saved for viewing with the NWR Browser**

Currently, the NWEM formatter automatically distributes all HazCollect products to NOAA Weather Radio. There are six HazCollect message types that may need to be saved as pending files, to be viewed with the NWR Browser before distribution: ADR, CAE, TOE, LAE, AVA and NIC. Forecasters at the WFOs need to be able to configure the NWEM formatter to save these products rather than automatically distribute them. **(DR 17592)**

**Problem. WarnGen: Improper wording (siren activation) in CTA**

Reference DR 16835 corrected the problem with the SVR template. However, three additional templates need this correction:

1. wwa\_svrwx\_sta\_county.preWWA (SVS)
2. wwa\_ffw\_svr.preWWA (combined FFW/SVR)
3. wwa\_fflood\_sta\_county.preWWA (convective FFS)

The following is the incorrect 80 mph wind CTA:

```
VAR |lead=DESTRUCTIVE HURRICANE FORCE WINDS IN EXCESS OF 80 MPH.  
|var=wind
```

```
VAR |lead=~SIREN ACTIVATION IS SUGGESTED. |var=siren
```

```
VAR |lead=YES |var=windYes
```

The following is the correct CTA wording:

```
VAR |lead=DESTRUCTIVE WINDS IN EXCESS OF 80 MPH. |var=wind
```

```
VAR |lead=YES |var=windYes. (DR 17022)
```